Environmental Lending in EU Eastern Partnership countries

FOSTERING RESILIENT ECONOMIES
DEMOGRAPHIC TRANSITION IN LOCAL LABOUR MARKETS

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Demographic Transition in Local Labour Markets
FOREWORD

The world is on the verge of major demographic change, and those countries impacted will have to respond to the challenges associated with these changes. OECD countries are predicted to undergo extensive population ageing and population decline during the coming decades, with some regions already experiencing population shrinkage. While some policies are already been put in place in some countries the question, however, is how a regional economy can develop under the influence of an ageing and declining population, and a dwindling working population.

Talented young people in particular are moving away from areas affected by population decline, due to the lack of labour market prospects. A large part of the population, however, remains - even though they may be lacking the knowledge and skills needed by local businesses, which puts the viability of these businesses under pressure and generating a ‘labour market mismatch’. This report analyses these challenges looking also at the opportunities that new approaches to economic challenges can contribute for making our local communities more resilient.

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CHAPTER 1:
THE COMPLEXITIES OF DEMOGRAPHIC CHANGE

Demographic changes such as falling fertility rates, increasing life expectancy, migration, population ageing and localised population shrinkage are significant policy challenges that national, regional and local governments are facing. This chapter outlines the objectives of this study, illustrates the demographic transition across the OECD and globally, and highlights the complexity and interplay of the factors impacting demographic change. Despite the severity of the global trends and the difficulties in reversing these trends in the short term, local institutions and stakeholders can and should enhance their pathways for sustainable development by smart management of their demographic transition. Five overarching and inter-connected guidelines are proposed.
Demographic change is a fundamental policy challenge facing not only national governments across the world, but regional and local governments as well. Such changes include falling fertility rates, increasing life expectancy, migration, population ageing, youth unemployment and localised population shrinkage. These are significant transitional issues facing governments at all levels in managing industrial development, job creation and sustainable development.

Global features of demographic change

Although the world’s population is increasing, population growth rates are in decline, from a peak of 2.1% in 1968 to 1.1% in 2012, and are projected to continue to decline into the future, to 0.4% by 2050 (Figure 1.1) (OECD StatsExtract). Total populations for OECD member countries are also predicted to steadily increase, but at a slower rate because of the more economically developed member countries; however, as with the worldwide projection, the population growth rate is expected to decline in the future to 0.19% by 2050 (Figure 1.1) (OECD StatsExtracts).

![Figure 1.1. World and OECD population totals, growth trends and projections](image)

**Note:** Calculated estimate values for OECD totals are projections from 2031-49.

**Source:** OECD.StatsExtract, Available at: [http://stats.oecd.org/Index.aspx](http://stats.oecd.org/Index.aspx), accessed June 2012.

The population slow-down is the result of declining fertility rates (Figure 1.2). In 1970, the average world fertility rate was 4.85 and that of the OECD was 2.73; by 2009, it had dropped to 2.52 and 1.74 respectively (OECDStats Extract). During the period 1950-55, there was a significant gap between more developed regions and less developed ones (2.81 and 6.07 respectively) (United Nations Department of Economic and Social Affairs, Population Division, 2011). Interestingly, according to
the UN World Population Prospects, both more developed regions and less developed ones will have similar fertility rates by 2065 (Figure 1.3), at a rate of 2.02 and 2.12 respectively (2060-65).

Figure 1.2. Average world and OECD fertility rates

![Average world and OECD fertility rates](image)

*Note: Calculated estimate values for world average for the values between the five-year intervals.*


Figure 1.3. Fertility rate projections for the world and more-/less-developed regions

![Fertility rate projections for the world and more-/less-developed regions](image)


As a consequence of falling fertility rates, the transition in population structure, as illustrated in Figure 1.4, means that the world and OECD average youth (aged less than 15 years old) populations are declining. In 1950, the world and OECD youth accounted for 34.3% and 28.9% respectively; by 2010, it had dropped to 26.8% and 18.5% respectively; and by 2025, it is estimated to continue to
decline to 23.9% and 16.9% respectively. Currently, the world youth average is 8 percentage points higher than the OECD’s, reflecting the OECD’s membership of more developed countries. At the same time, the average world and OECD elderly population rates (aged 65 and over) are increasing. In 1950, the world’s and OECD’s elderly accounted for 5.2% and 7.7% respectively; by 2010, these figures had increased to 7.6% and 14.5% respectively, with the OECD average expected to exceed the youth population growth rate by 2019. By 2025, the elderly will account for 10.5% and 19.6% respectively (United Nations, Department of Economic and Social Affairs, Population Division, 2011; OECDstats Extracts).

Figure 1.4. Trends and projections in population structure: World and OECD averages

As a result of these demographic changes, strategic solutions must take into account the interplay of different elements (Figure 1.5), integrating the characteristics of the community, human capital, industrial composition and social distribution (Martinez-Fernandez et al., 2012). As illustrated in Figure 1.5, sustainable and resilient communities rely on the interaction of four key areas: population and health, such as ageing, fertility and longevity; new sources of growth, such as the silver and white economies, entrepreneurship and innovation; skills ecosystems, such as skills supply development, utilisation and demand; and labour markets, such as employment, unemployment, ageing workforce and skills mismatch. The performance characterisations of these factors depend on elements in other key areas.
This book provides a cross-country analysis of demographic transitions across the world, focusing on the challenges facing the regional and local communities of the participating countries. The report is divided into nine chapters: this chapter introduced the project and demographic change phenomenon. Chapter 2 discusses the challenges and impacts of demographic transition. Chapter 3 outlines the need for smart management of demographic change. Chapter 4 illustrates the Polish territorial differences in demographic transition. Chapter 5 examines the Dutch labour market within changing demographics. Chapter 6 examines the Chinese silver and white economy in light of the ageing society. Chapter 7 studies the socio-economic alliances in response to North Kyoto’s demographic changes, while Chapter 8 examines the generation shift in the Swedish labour market. The book includes in-depth analyses of Japan, the Netherlands, Poland, Sweden and the People’s Republic of China, as well as case studies from 21 countries from across the American, European and Asia-Pacific regions (Figure 1.6).
The analysis provides strategic guidelines for managing demographic transition in local communities presented in next section.

**Local management of demographic transition in local labour markets**

Despite the severity of the global trends and the difficulties in reversing these trends in the short term, local institutions and stakeholders can and should enhance their pathways for sustainable development through smart management of their demographic transition. The case study chapters reveal policy responses that are important for national, regional and local context. Five overarching and inter-connected responses indicate priority actions for each country case study (see table 1.1 below).
Table 1.1 Key guidelines—strategic priorities

<table>
<thead>
<tr>
<th>GUIDELINES</th>
<th>POLAND</th>
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<th>CHINA</th>
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<td>Develop processes to ensure quality local population forecasting</td>
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<td>Long-term and comprehensive sustainable economic development strategies</td>
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<td>Creating family policy for friendly communities</td>
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<td>Invest in early healthy lifestyles and active communities</td>
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<td>Implement programmes for activation and integration in the workplace</td>
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<td>Reform workforce age management practices</td>
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<td>Create policy dialogue that encourages governmental coherence</td>
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<td>Develop new local workforce ecologies within entrepreneurship, SMEs and workforce flexibility</td>
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<td>Embrace new sources of growth by identifying opportunities and innovations in local labour markets</td>
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<td>Create lifelong learning culture for youth, adults and older persons</td>
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<td>Connecting education/skills development institutions with local labour markets (developing a local skill ecosystem)</td>
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Source: Author

Guideline 1. Designing strategic and localised solutions for territorial differences

- Develop processes to ensure quality local population forecasting; a common legal framework for small-scale surveys; a set of indicators for demographic change, which is simple to use and up-to-date; and co-ordination and co-operation to ensure consistency and synergy of data are needed. This would allow the development of a local urban perspective in planning.
policies and decision-making processes. The dashboard provides one policy tool to evaluate indicators; however, the tool would be more valuable if comparable and reliable statistics were collected and made available at the local level. Policy response is required at the local government level; however, statistical databases at supra-national, national and regional levels require demographic indicators to be collected and be easily accessible at the sub-regional (NUTS 3) and local level (local administrative unit).

- Implement strategic, co-ordinated policy response. This should encompass a “whole-of-government approach” at the initial stage of policy development, and continuing “policy dialogue”, such as working groups, that is place based and highly contingent on the local context, which can review and monitor policy responses. Utilising policy tools such as the dashboard and policy indexes to inform planning decisions and monitor performance is highly recommended. Specific policies need to be tailored to a comprehensive local strategic approach employing a multitude of efforts, such as greening, revitalisation, economic development and social cohesion. The level of response is required at all government levels: national, regional and local.

**Guideline 2. Implementing a place-based approach for resilient and inclusive communities**

- Long-term and comprehensive sustainable economic development strategies should first be explored, developed, implemented and reviewed, focusing on the key aspects that make a region unique and anchored to the local situation and manifestations of demographic transitions. Strategies could include:
  - Diversifying local utilisation of natural resources by incorporating other values in addition to the industrial ones, such as offering sustainable environments for housing and nature tourism businesses.
  - Improving the local living conditions (housing and public space), which could serve the needs of the existing population and attract new inhabitants.
  - Integrating economic, socio-educational and urban policies and consolidating efforts in relation to innovation, entrepreneurship and human capital.
  - Implementing flexibility within strategies that will encourage creative solutions; and urban governance incorporating local, regional and inter-municipal co-operation and integration of multiple public and private stakeholders.

The level of policy response is required at regional and local government levels, with interaction between public and private sectors, and community groups.

- Creating family policy for friendly communities requires long-term and stable strategies to support parenting decisions by creating the conditions to ensure that more children are born, and to improve the quality of life and reduce poverty among families. Successful family policy requires state-level legislative initiatives to support regional areas and flexibility to allow local efforts to reverse negative trends. Family policy needs to take into consideration the diversity of the family unit across the respective regions (rural/urban) and allow flexibility for intra-regional differences. Actions could include childcare support from an early age, childcare in working centres, financial assistance for carers, social centres and programmes such as grandparent schemes. The level of policy response is required at
regional and local levels, with significant interaction with the private sector (small and large firms) and community groups.

- Invest in early healthy lifestyles and active communities by incorporating infrastructure, the provision of services to society and campaigns designed to reduce medical costs in later life. Investments in community-based agencies for health and social support, facilitating non-profit/voluntary efforts, fostering local resource sharing and educational campaigns in schools are actions that aid healthy and active communities. Response is required at all government levels, with co-operation and implementation with the education and health sectors, private sector and community groups.

- Supportive personal and social networks will foster vitality and a vibrant socio-cultural climate in local communities. Public policy should not only focus on places or industries but on people as well, creating opportunities for people to exercise their creativity. Personal networks and/or attachments, which stimulate the business environment and improve quality of life, entrepreneurship and innovation are all factors that can foster resilience in changing demographic regions. Investments can be in the form of institutional assets that are located in local areas and that can act as “magnet infrastructure” (e.g. a new educational institution or a cultural landmark which will require national and regional response) and in digital media to promote inter-generational (alumni) and social networks. Good communities nurture entrepreneurship and healthy lifestyle living conditions. Recognising the importance of, and supporting, a vibrant cultural community climate is required at regional, local and social levels, with financial support from regional governments, programmes and initiatives implemented by local government, the education sector (such as universities) and community groups.

Guideline 3. Encouraging inter-generational solidarity for ageing societies and local labour markets

- Promote inter-generational engagement and a new work continuum to extend the length and variety of employment in working life and increase productivity and community engagement in private life. Actions should include flexible working hours (ranging from full-time to part-time and casual) for companies, governments and other sectors. This will extend the working age while allowing people to meet the requirements of family and community and will in turn improve personal, family and community health. Social protection and equal opportunities policies, tax and benefit schemes for older workers should increase the longevity of older workers. Response is required at all levels of government (national, regional and local) for the educational campaigns, the private sector for implementation and community groups for engagement. Implementing the ELFRI policy index by local authorities and community groups would allow continued monitoring of the needs and requirements of the elderly in local communities.

- Implement programmes for activation and integration in the workplace, by re-positioning workers (older and younger) who are un-(or under) employed, especially lower skilled workers, in a concerted effort to develop continued and new job placement (job carving) and to connect older and younger workers in the workplace using strategies such as mentoring and companionship methods. Incentives for staying in work after age 60, and social security systems designed to promote working later in life need to be developed. Programmes need to be implemented at regional and local levels by the public and private sectors, incentives will need to be the responsibility of the national and regional governments.
• Reform workforce age management practices, focusing on the removal of mental barriers and negative perceptions of age and ageing workers, through information campaigns. At the same time, encourage enterprises (public and private) to take the responsibility for implementing age-sensitive workplace design, management and leadership. Raise awareness of the benefits and challenges of active ageing to employers and encourage them to invest in their staff and stimulate age-friendly HR policies; organise initiatives to eradicate the negative perceptions of age; encourage guidance and counselling services that incorporate a life-cycle perspective, that promote employability and that are adapted to the needs and abilities of the ageing population. Educational campaigns are required at all levels of government, with programmes and implementation by the public and private sectors and social support from community groups. Implementation of the OLWOF policy index, by firms or local authorities would allow continued monitoring of the progress of age management practices.

Guideline 4. Creating dynamic and responsive local labour markets that address demographic and economic transitions

• Create policy dialogue that encourages coherence between the levels of government (vertical integration) and co-ordination across different ministries/departments (horizontal integration). This alignment can be achieved by promoting co-operative frameworks and regional co-ordinated approaches, such as territorial employment pacts. Regional employment pacts should be established to complement local approaches, providing a simple and effective mode of governance whereby stakeholders communicate and co-operate as equal partners, thus encouraging local empowerment. The implementation of local employment programmes can activate hidden reserves of the labour market and reduce the effect of the shrinking workforce due to ageing. Encouraging citizens’ participation and involving leading local stakeholders in the preparation of the local policy increases the awareness of demographic change within the local community to assist in the adoption of more realistic provisions/ measures. Governance needs to be strengthened by establishing rich communication, networking or partnerships to encourage leadership, involvement by all stakeholders (public, private and community sectors) and provision of funds/resources.

• Develop new local workforce ecologies within entrepreneurship, SMEs and workforce flexibility by designing strategies and initiatives for incubators, entrepreneurship education, skills development in SMEs, and the development of senior entrepreneurs. Local development needs to focus on attracting youth and encouraging entrepreneurs to settle within declining areas through a systematic process of incentives and networking strategies aimed at target group programmes for reducing unemployment and more active implementation of revitalisation programmes. Policy response is required at all levels (national, regional and local) of government, with key interactions with the private and educational sectors and community groups.

• Embrace new sources of growth by identifying opportunities and innovations in local labour markets to stimulate economic activity. Create the conditions for business opportunities to be supported by regional and municipal authorities focusing on emerging activities, especially in high-tech and knowledge-based activities. Target cross-border programmes, workforce mobility, business/industry clustering, skills and employment programmes and new economic growth areas in white, silver and green economies. Response is required at both the regional and local levels of government as well as public and private sectors.
Guideline 5. Generating innovative skills ecosystems: Skills capital for local communities

- Create lifelong learning culture for youth, adults and older persons to stimulate skills development and competitiveness involving regional and local government educational campaigns and programmes. Economies depend on value that is added from the entire workforce, therefore regional and local firms need to invest in and improve their learning culture, with flexible and tailor-made training and skills development programmes, not only for new employees, but also for the older workforce. To increase entrepreneurship or self-employment, educational programmes and business coaching should be provided by the public sector and community groups, wherein the skills of older people are transformed into new opportunities.

- Connecting education/skills development institutions with local labour markets (developing a local skill ecosystem) would create the localised skills capital needed in the demographically changing society. Local and regional government can provide the approach and the vehicle to initiate and sustain the interaction between the education sector and private enterprise. A sustained and targeted approach to collaboration between stakeholders will assist in job preparation and creation. A key aspect is re-orienting vocational education and training organisations to new skills ecologies within the education and university sectors.
References


CHAPTER 2:

DEMOGRAPHIC TRANSITION AND AGEING IN LOCAL LABOUR MARKETS

With demographic transition having a profound impact on economies across the world, this chapter provides a cross-country analysis of the key demographic statistics of the country case studies and the demographic dashboard, an evolving tool designed to assess the performance levels of demographic transition between 2000 and 2010 of the two key case study countries, Poland and the Netherlands. The Active Ageing Index, Global AgeWatch Index and policy indexes (Older Workers Friendly Places to Work – OLWOF – and Elderly Friendly Places to Live – ELFRI), provide further evidence for demographic transition policy response.
Demographic transition is the shift in a population from a traditional demographic regime marked by high fertility and mortality to a modern demographic regime in which fertility and mortality are low and is having profound effects on the economies of industrialised countries. This chapter provides a cross-country analysis of the case studies undertaken as part of the project. It begins with an analysis of the key demographic statistics, focusing on population dynamics: shrinkage or stagnation, fertility decline and greater migration rates; and population structure: under 15 years of age, 15-65 years old and over 65. The chapter then examines the demographic change dashboard, an evolving tool designed to assess the performance levels of demographic transition at a regional scale between 2000 and 2010. This is followed by analysis of the Active Ageing Index and two policy questionnaires created for this project: the Older Workers Friendly Places to Work (OLWOF) and the Elderly Friendly Places to Live (ELFRI) indexes for Japan, the Netherlands and Poland.

**Population dynamics indicate shrinkage or stagnation**

Population shrinkage or stagnation is either being experienced or is projected to occur in the near future in the case studies analysed. As illustrated in Figure 2.1, Japan will experience a significant population decline, followed by the People’s Republic of China and, to a limited extent, Italy and Poland, which reflects the population policy within each country (China and Japan) or the result of entering the European Union (Italy and Poland), which has made immigration easier. Generally, population stagnation will occur in Austria, the Netherlands and Sweden, which is comparable to the OECD levels.

![Figure 2.1. Population trends and projections (1950-2050)](image)

*Note: The primary axis (left axis) is for the OECD and China due to their large population totals. The secondary axis (right) is used for the other countries with smaller population totals.

Fertility levels and migration rates impact the growth rates of countries. The majority of case study countries are experiencing declining fertility rates, to below replacement levels (of 2.1), with notable declines in China, Japan, Poland and Italy corresponding to the overall declining population growth rates. Fertility stagnation has occurred in Austria, the Netherlands and Sweden. As illustrated in Figure 2.2, it is the migration rates that truly impact the population growth, reflecting the fluctuating trends, especially in Austria, Italy, Netherlands, and Sweden. Poland has experienced a negative migration rate since the 1970s, which has significantly impacted its population growth. In China, although migration statistics are not available, a fundamental decline in fertility and thus population growth has occurred. Both fertility rates and migration patterns reflect the policy focus needs of different nations, encouraging families, resilient communities and economies.

Figure 2.2. Population growth, fertility and migration rates (1970-2010)
There has been a significant increase in life expectancy across all of the case study countries, which reflects better healthcare, lifestyles and age management (Figure 2.3). In 2010, Japan (at 83 years) had the highest life expectancy, followed by Italy (82 in 2009), Sweden (81.5 years), the Netherlands (80.8) and Austria (80.7 years). China has the lowest life expectancy, but has experienced the greatest increase since the 1960s (when it was 43.5 years) to 2010 (73.3 years), an overall increase of 29.8 years. In 2010, Poland had the next lowest life expectancy (76.3 years), but this has increased by 8.5 years since the 1960s. Other countries with notable improvements since the 1960s include Japan (15.2 years), followed by Italy (12.2 years) and Austria (12 years). The increasing life expectancy rates will have a profound impact on the population structure of these countries in the future, and will have implications for health, labour and social inclusion policies.

Population structure shows dwindling youth and population ageing

Declining fertility rates and increases in life expectancy have meant there has been a profound impact on the population structure of countries across the world. Generally, youth (aged less than 15) population rates have been declining since the 1950s, and in some countries this decline is expected to continue until 2050 as a consequence of declining fertility rates. All of the case study countries have experienced dwindling youth proportions (Figure 2.4), the most significant of which were between 1950 and 2010, with a 22.4% drop in Japan, followed by China (-14.6%) and Poland (-14.3%). However, in 2010, China still had the highest proportion of youth (19.5%), followed by the Netherlands (17.5%) and Sweden (16.6%). As can be seen in Figure 2.4, Sweden’s youth population decline has stabilised, and from 2020 it is expected to stabilise in Italy and the Netherlands. The youth are these countries’ future labour force, therefore, the consequences of dwindling youth rates impact the socio-economic fabric of these countries’ futures. The importance of family policy, supporting family-friendly environments and workplaces, should be encouraged.
As a result of increasing life expectancy rates, the proportion of the population over 65 has increased, resulting in an ageing population phenomenon. By 2050, according to HelpAge International (2013), older people (aged 60 years and over) will make up more than one-fifth of the global population. All of the case study countries’ populations are ageing (Figure 2.5); in 1950, China and Japan had the lowest proportions of elderly population (4.5% and 4.9% respectively). Over 10% of the Austrian and Swedish populations are elderly. In 2010, China still had the lowest proportion, with 8.2% falling into the elderly category; however, Japan has the highest proportion, at 23.2%, followed by Italy (20.5%). By 2050, Japan’s elderly population will make up almost 40% of its population, followed by Italy (33.6%) and Poland (29.6%). From 2010 to 2050, China, Japan and Poland will have the fastest growing elderly populations (17.4%, 16.4% and 16.1% respectively). The Netherlands and Sweden will have the smallest elderly population rates, but these are still a significant 23.6% and 23.5% respectively. Population ageing is having, and will cause, many challenges to societies and economies, resulting in changes in labour markets, societal structures and social security systems (Cedefop, 2012).
Increasing longevity requires age management for all countries

Many demographic trends in the case study regions are explained by the ageing of the population, which is creating challenges for the national and regional economies. There is an increasing concern regarding workforce ageing and the need for products and services for seniors. Long-term care systems, support of non-government organisations, creation of new leisure and business services and products, as well as provision of opportunities for entrepreneurship and small and medium enterprise (SME) development, are all policy considerations for active ageing. Currently, there are two ageing indexes to assist national policy makers in identifying gaps and policy response:

1. Active Ageing Index (AAI), for Europe only
2. Global AgeWatch Index.

The AAI was developed in the context of the European Active Ageing and Solidarity between Generations, 2012 by the European Centre for Social Welfare Policy and Research in Vienna. “The AAI is a new analytical tool that aims to help policy makers in developing policies for active and healthy ageing. Its aim is to point to the untapped potential of older people for more active participation in employment, in social life and for independent living. Mobilising the potential of both older women and men is crucial to ensure prosperity for all generations in ageing societies” (European Commission and United Nations Economic Commission for Europe, 2013).
The Active Ageing Index (AAI) was constructed from four different domains, with each domain presenting a different aspect of active and healthy ageing. The first three domains refer to the actual experiences of active ageing (employment, unpaid work/social participation, independent living), while the fourth domain captures the capacity for active ageing as determined by individual characteristics and environmental factors. The AAI is a composite index, which means that a number of individual indicators contribute to each of the domains. In total there are 22 individual indicators across 4 domains. Each individual indicator can be positively interpreted, meaning that the higher the indicator value, the better the active ageing outcome. For example, the more care older people provide for others, the better are their active ageing outcomes. Indicators are weighted individually and then combined within the four domains, thus creating the domain-specific indices. The overall AAI is then the weighted average of the four domain-specific indices. The results of the AAI are presented as a ranking of countries by the scores achieved in the overall AAI and in the domain-specific indices. The rank order of countries differs across domains. The rank of each country in the AAI is determined by the score it obtains in the four domains and in the overall index. Individual country scores show the extent to which its older people’s potential is used and the extent to which they are enabled to participate in the economy and society. The theoretical maximum for the index is assumed to be 100. Currently, none of the countries comes anywhere near this maximum. If this was the case, it would indeed imply a much higher life expectancy and an unrealistically high participation of older people in the economy and society. Thus, the index is constructed in such a way that even the best-performing countries can not reach the ceiling of 100. As a result of this methodological choice, current top performers like Sweden or Denmark only pass the 40% mark. Improvements are possible even for the top performers, but obviously, 100 would not be a realistic goalpost at present.


Currently, the AAI is completed for European countries; below is a summary of the results for Italy, the Netherlands, Poland and Sweden. As outlined in Box 2.1, results are presented as a ranking of countries by scores achieved. According to the Active Ageing Index, overall, Sweden ranks 1st out of the EU27, the Netherlands ranks 5th, Austria is 10th, Italy 15th and Poland 27th (Figure 2.6). Within specific component indices:

- employment: Sweden ranks 1st, followed by the Netherlands (8th), Austria (15th), Italy (22nd) and Poland (24th)
- social participation: Italy ranks 2nd, followed by Sweden (4th), the Netherlands (6th), Austria (8th) and Poland (27th)
- independent living: Sweden ranks 2nd, followed by the Netherlands (3rd), Austria (13th), Italy (19th) and Poland (21st)
- capacity for active ageing: Sweden ranks 1st, followed by the Netherlands (3rd), Austria (10th), Italy (15th) and Poland (22nd).

The scores for theoretical potential for full active ageing engagement of people working, or providing skills inputs, reveals the potential for improvement and the need for policy focus (Figure 2.6). Although Sweden is ranked first overall, its score was 44%, therefore, improvements are possible and should be encouraged and not be underestimated. The Netherlands’ score was 38.9%, which would make it possible to achieve an improved economy, with increased aged productivity and lower healthcare costs. Thus, policy efforts need to be directed towards this end, in areas such as workplace activation, volunteerism and lifelong learning. Austria’s score was 34.9%, with policy focuses on employment, inter-generational solidarity and active ageing. Italy’s score was 33.3%; policy efforts need to be directed towards workplace activation, encouraging healthy and active communities, and lifelong learning. Poland’s score was 27.3% of the theoretical potential. Policy efforts need to be directed towards this end, in areas such as encouraging
healthy and active communities, inter-generational solidarity, managing the ageing workforce, and skills and competency development.

The AAI highlights the national differences between countries and the challenges of ageing populations in society. Policy focus, no matter how advanced a country is, should continually encourage inter-generational solidarity, management practices for an ageing workforce, lifelong learning, and inclusive and resilient communities.

Figure 2.6. Active Ageing Index results across EU27 countries

<table>
<thead>
<tr>
<th>Country</th>
<th>Distance to achieving the theoretical full active ageing potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sweden</td>
<td>44.0</td>
</tr>
<tr>
<td>Denmark</td>
<td>40.2</td>
</tr>
<tr>
<td>Ireland</td>
<td>39.4</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>39.2</td>
</tr>
<tr>
<td>Netherlands</td>
<td>38.9</td>
</tr>
<tr>
<td>Finland</td>
<td>38.8</td>
</tr>
<tr>
<td>Cyprus</td>
<td>36.1</td>
</tr>
<tr>
<td>Luxembourg</td>
<td>35.1</td>
</tr>
<tr>
<td>Germany</td>
<td>35.0</td>
</tr>
<tr>
<td>Austria</td>
<td>34.9</td>
</tr>
<tr>
<td>Czech Republic</td>
<td>34.3</td>
</tr>
<tr>
<td>Portugal</td>
<td>34.2</td>
</tr>
<tr>
<td>France</td>
<td>34.2</td>
</tr>
<tr>
<td>Belgium</td>
<td>33.5</td>
</tr>
<tr>
<td>Italy</td>
<td>33.3</td>
</tr>
<tr>
<td>Estonia</td>
<td>31.1</td>
</tr>
<tr>
<td>Spain</td>
<td>32.5</td>
</tr>
<tr>
<td>Lithuania</td>
<td>31.6</td>
</tr>
<tr>
<td>Malta</td>
<td>31.6</td>
</tr>
<tr>
<td>Romania</td>
<td>30.9</td>
</tr>
<tr>
<td>Slovenia</td>
<td>30.8</td>
</tr>
<tr>
<td>Latvia</td>
<td>30.2</td>
</tr>
<tr>
<td>Bulgaria</td>
<td>30.0</td>
</tr>
<tr>
<td>Greece</td>
<td>29.3</td>
</tr>
<tr>
<td>Hungary</td>
<td>28.2</td>
</tr>
<tr>
<td>Slovakia</td>
<td>27.7</td>
</tr>
<tr>
<td>Poland</td>
<td>27.3</td>
</tr>
</tbody>
</table>

Note by Turkey: The information in this document with reference to “Cyprus” relates to the southern part of the Island. There is no single authority representing both Turkish and Greek Cypriot people on the Island. Turkey recognises the Turkish Republic of Northern Cyprus (TRNC). Until a lasting and equitable solution is found within the context of United Nations, Turkey shall preserve its position concerning the “Cyprus” issue. Note by all the European Union member states of the OECD and the European Union: The Republic of Cyprus is recognised by all members of the United Nations with the exception of Turkey. The information in this document relates to the area under the effective control of the government of the Republic of Cyprus.

Supporting the AAI is the newly launched Global AgeWatch Index, supported by international organisations such as the World Bank, the World Health Organisation (WHO), the Interational Labour Organisation (ILO) and the United Nations Educational, Scientific and Cultural Organisation (UNESCO). The Global AgeWact aims to “… capture the multi-dimensional nature of well-being and quality of life of older people, and to provide a means by which to measure performance and promote improvement” (HelpAge International, 2013: 12). The index contains 4 key domains (income security, health status, employment and education, and enabling environment) under which 13 indicators are utilised (Figure 2.7). According to HelpAge International (2013), the “…overall index is calculated as a geometric mean of the four domains.”

**Figure 2.7. Global AgeWatch Index domains and indicators**


The index results illustrate that Nordic, Western European, North American and some Asian and Latin Amican countries fare the best in well-being and quality of life for older people. Sweden again tops the index and features in the top 10 of all four domains. Table 2.1 outlines the case study countries’ overall and domain ranking, highlighting possible gaps and scope for progress in older peoples’ well-being. Box 2.2 outlines the key conclusions about how countries are responding to the challenges and opportunities of population ageing.
Table 2.1. Global AgeWatch Index: Case study country results for OECD member and case study countries

<table>
<thead>
<tr>
<th>Country</th>
<th>Overall rank and value</th>
<th>Income security</th>
<th>Health status</th>
<th>Employment and education</th>
<th>Enabling environment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rank</td>
<td>Value</td>
<td>Rank</td>
<td>Value</td>
<td>Rank</td>
</tr>
<tr>
<td>Sweden</td>
<td>1</td>
<td>89.9</td>
<td>8</td>
<td>87.0</td>
<td>7</td>
</tr>
<tr>
<td>Norway</td>
<td>2</td>
<td>89.8</td>
<td>3</td>
<td>91.4</td>
<td>13</td>
</tr>
<tr>
<td>Germany</td>
<td>3</td>
<td>89.3</td>
<td>9</td>
<td>86.1</td>
<td>6</td>
</tr>
<tr>
<td>Netherlands</td>
<td>4</td>
<td>88.2</td>
<td>4</td>
<td>90.9</td>
<td>18</td>
</tr>
<tr>
<td>Canada</td>
<td>5</td>
<td>88.2</td>
<td>4</td>
<td>90.9</td>
<td>18</td>
</tr>
<tr>
<td>Switzerland</td>
<td>6</td>
<td>87.9</td>
<td>28</td>
<td>80.6</td>
<td>1</td>
</tr>
<tr>
<td>New Zealand</td>
<td>7</td>
<td>84.5</td>
<td>43</td>
<td>72.7</td>
<td>3</td>
</tr>
<tr>
<td>United States</td>
<td>8</td>
<td>83.8</td>
<td>36</td>
<td>77.9</td>
<td>24</td>
</tr>
<tr>
<td>Iceland</td>
<td>9</td>
<td>83.4</td>
<td>15</td>
<td>84.7</td>
<td>9</td>
</tr>
<tr>
<td>Japan</td>
<td>10</td>
<td>83.1</td>
<td>27</td>
<td>80.7</td>
<td>5</td>
</tr>
<tr>
<td>Austria</td>
<td>11</td>
<td>79.8</td>
<td>5</td>
<td>88.2</td>
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<tr>
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<td>24</td>
<td>81.9</td>
<td>14</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>13</td>
<td>78.7</td>
<td>10</td>
<td>85.8</td>
<td>19</td>
</tr>
<tr>
<td>Australia</td>
<td>14</td>
<td>77.2</td>
<td>57</td>
<td>57.2</td>
<td>4</td>
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<tr>
<td>Finland</td>
<td>15</td>
<td>77.1</td>
<td>14</td>
<td>84.8</td>
<td>21</td>
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<tr>
<td>Luxembourg</td>
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<td>76.7</td>
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<tr>
<td>Denmark</td>
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<td>75.9</td>
<td>21</td>
<td>82.3</td>
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</tr>
<tr>
<td>France</td>
<td>18</td>
<td>75.0</td>
<td>2</td>
<td>93.2</td>
<td>31</td>
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<tr>
<td>Chile</td>
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<td>Slovenia</td>
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<td>70.8</td>
<td>22</td>
<td>82.0</td>
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<tr>
<td>Israel</td>
<td>21</td>
<td>70.0</td>
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<td>58.4</td>
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<td>74.4</td>
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<td>Czech Republic</td>
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<td>13</td>
<td>85.4</td>
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<tr>
<td>Italy</td>
<td>27</td>
<td>61.4</td>
<td>6</td>
<td>88.0</td>
<td>15</td>
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<tr>
<td>Estonia</td>
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<td>60.2</td>
<td>35</td>
<td>78.0</td>
<td>58</td>
</tr>
<tr>
<td>Portugal</td>
<td>34</td>
<td>57.8</td>
<td>17</td>
<td>83.4</td>
<td>29</td>
</tr>
<tr>
<td>China</td>
<td>35</td>
<td>57.4</td>
<td>66</td>
<td>46.2</td>
<td>51</td>
</tr>
<tr>
<td>Hungary</td>
<td>40</td>
<td>54.7</td>
<td>19</td>
<td>83.2</td>
<td>57</td>
</tr>
<tr>
<td>Slovak Republic</td>
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<td>16</td>
<td>84.1</td>
<td>53</td>
</tr>
<tr>
<td>Mexico</td>
<td>56</td>
<td>48.9</td>
<td>70</td>
<td>41.0</td>
<td>35</td>
</tr>
<tr>
<td>Greece</td>
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<td>47.4</td>
<td>25</td>
<td>81.2</td>
<td>47</td>
</tr>
<tr>
<td>Poland</td>
<td>62</td>
<td>45.9</td>
<td>20</td>
<td>82.6</td>
<td>87</td>
</tr>
<tr>
<td>Korea</td>
<td>67</td>
<td>39.9</td>
<td>90</td>
<td>8.7</td>
<td>8</td>
</tr>
<tr>
<td>Turkey</td>
<td>70</td>
<td>38.1</td>
<td>30</td>
<td>79.7</td>
<td>66</td>
</tr>
</tbody>
</table>

Note: The value shows how near a country is to the ideal value (100). Shaded countries are case study countries. The statistical data for Israel are supplied by and under the responsibility of the relevant Israeli authorities. The use of such data by the OECD is without prejudice to the status of the Golan Heights, East Jerusalem and Israeli settlements in the West Bank under the terms of international law.

Money is not everything: A number of low-income countries have shown that limited resources do not have to be a barrier to providing for their older citizens. Examples include non-contributory basic pensions as part of social welfare programmes or free or subsidised healthcare for older people.

- Guaranteeing the well-being of all: History counts: People in countries that have a record of progressive social welfare policies for all citizens across the life-course are more likely to reap the benefits in old age.

- Maintaining the momentum: It is never too soon to prepare: Countries are at different points on the ageing trajectory. Those that have a significant youth population can potentially benefit from a “demographic dividend”, as they have large numbers of people of prime working age.

- Addressing the data challenge: Ageing well requires action: The most urgent concerns for older people worldwide are a guarantee of income security and access to affordable healthcare.

- Ensuring income security for all.

- Ensuring access to quality healthcare.

- Challenging age discrimination.


Territorial differences in demographic transition require different policy responses

To illustrate the performance of the local areas analysed, a dashboard was developed, presenting a set of indicators in a simple pie chart based on three principles:

1. The size of a segment reflects the relative importance of the issue described by the indicator.
2. Colour codes signal relative performance, with green meaning “good” and red meaning “poor”.
3. A central circle, the Policy Performance Index (PPI), summarises the information from the component indicators; in this case, it is called the Demographic Change Index (DCI).

The dashboard is designed to assess the impact of demographic transition at a regional scale between 2000 and 2010. Therefore, shades of green indicate good (positive) performance, while shades of red indicate poor (negative) performance (Figures 2.5 and 2.6). Overall, there are nine performance categories: excellent (dark green), very good, good, fair (light green), average (yellow), poor (light red/pink), very poor, serious, and critical (dark red).

The dashboard has five key components (Annex B):

1. Demographic Change Index (overall summary)
2. demography (population growth; age cohorts: 0-14, 15-64 and 65+; life expectancy; birth and death rates; fertility rates; and infant mortality)
3. economy (primary income of households; GDP per capita; youth, elderly and economic dependency ratios)
4. labour (employment rates: 15-64, 15-24, 55-64 age cohorts; and unemployment rates: 15-24, 55-64 age cohorts)
5. skills and education (students enrolled in education as a percent of total population); students enrolled in tertiary education as a percent of total students); tertiary education attainment as a percent of employment and labour force); and participation of adults in education (by gender).

A constraint experienced implementing the dashboard was sourcing statistics that were comparable at the local level where territorial differences occur. Local statistics are highly important for informing local policy responses. Governments need to make a proactive effort to collect consistent and comparable local data and provide a user-friendly portal for making that information available.

Figures 2.8 and 2.9 illustrate the overall dashboard results for the years 2000 and 2010, and trends (2000-10) for the Netherlands’ regions of Groningen, Drenthe, Limburg and Zeeland (Figure 2.8) and Poland’s regions of Łódzkie, Małopolska and Pomorskie (Figure 2.9), comparing regional performances with the OECD, EU27 and their national trends.

Figure 2.8. Netherlands case study regions: overall dashboard results


Figure 2.8 highlights the differences between the study regions in the Netherlands and compares regional performances with the national, EU27 and OECD results. In 2000, the overall index result for the four study regions was “fair”, compared with the national result (good), which indicates that the regions appear to be under-performing. However, as illustrated by Figure 2.8, each region has differently performing components (demography, economy, labour, and skills and education). In 2010, Groningen had a slightly better overall result of “good”, on a par with national results, while the other three study regions
stayed at “fair”. It should be stated that the regions in 2000 and 2010 were performing better than the EU27 and OECD as a whole, highlighting the relatively good position and starting basis for demographic transition management. However, the performance changes from 2000-10 highlight a concerning trend. The overall index result was considered “poor” for Drenthe and Groningen, and “very poor” for Limburg and Zeeland, revealing potential issues in the future (see Annex A for detailed dashboard results). Table 2.2 outlines the indicators that require more focus (2000-10) for each region (compared with the EU27 and OECD), highlighting the need for continued policy diligence on the impacts of demographic transitions, especially relating to population dynamics (growth and structure), and the flow-on impacts on the economy, labour, and skills and education levels at the regional and local levels. Table 2.2 also underlines the regional differences in socio-economic performance and the need for territorial place-based approaches for managing demographic transition.

Table 2.2. Focal indicators (2000-10) for the case study regions in the Netherlands

<table>
<thead>
<tr>
<th>Region</th>
<th>Demography</th>
<th>Economy</th>
<th>Labour</th>
<th>Skills and education</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Population growth; working-age</td>
<td>Primary income per household; GDP per</td>
<td>Young adult employment, unemploy</td>
<td>Tertiary education attainment (of</td>
</tr>
<tr>
<td></td>
<td>population; infant mortality; crude</td>
<td>capita; youth, elderly, and economic</td>
<td>(overall, youth and older persons)</td>
<td>employed and labour force)</td>
</tr>
<tr>
<td>Drenthe</td>
<td>birth rates; life expectancies;</td>
<td>dependency ratios</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>crude birth rates; infant mortality</td>
<td></td>
<td></td>
<td>Students enrolled in education and</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>tertiary education; tertiary</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>education attainment (of employed);</td>
</tr>
<tr>
<td></td>
<td>Groningen</td>
<td>Primary income per household; youth and</td>
<td>Employment rates (overall and young</td>
<td>participation of female adults in</td>
</tr>
<tr>
<td></td>
<td>Population growth; working-age</td>
<td>economic dependency ratios</td>
<td>adults); unemploy (overall, youth and</td>
<td>education; tertiary education</td>
</tr>
<tr>
<td></td>
<td>population; life expectancies;</td>
<td></td>
<td>older persons)</td>
<td>attainment (of employed); participation of male adults in education; tertiary education attainment (of employed); participation of adults in education</td>
</tr>
<tr>
<td></td>
<td>crude birth rates; infant mortality</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Limburg</td>
<td>Population growth; working-age</td>
<td>Primary income per household; GDP per</td>
<td>Employment rates (overall and young</td>
<td>Students enrolled in education;</td>
</tr>
<tr>
<td></td>
<td>population; elderly population;</td>
<td>capita; youth, elderly, and economic</td>
<td>adults); unemploy (overall, youth and</td>
<td>tertiary education; tertiary education attainment (of employed); participation of male adults in education; tertiary education attainment (of employed); participation of adults in education</td>
</tr>
<tr>
<td></td>
<td>crude birth rates; infant mortality</td>
<td>dependency ratio</td>
<td>older persons)</td>
<td></td>
</tr>
<tr>
<td>Zeeland</td>
<td>Population growth; working-age</td>
<td>Primary income per household; GDP per</td>
<td>Unemployment (overall, youth and</td>
<td>Students enrolled in education;</td>
</tr>
<tr>
<td></td>
<td>population; life expectencies;</td>
<td>capita; youth, elderly, and economic</td>
<td>older persons)</td>
<td>tertiary education; tertiary education attainment (of employed); participation of male adults in education; tertiary education attainment (of employed); participation of adults in education</td>
</tr>
<tr>
<td></td>
<td>crude birth rate; infant mortality</td>
<td>dependency ratios</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: Author

Figure 2.9 highlights the differences between the study regions in Poland, and reveals a completely different performance level compared to the Netherlands, EU27 and OECD. In 2000, the overall index results for the three study regions was “very poor” for Pomorskie and Małopolska, and “serious” for Łódzkie, compared with Poland which was rated “very poor”. In 2000, the regions’ results were somewhat lower than those for the EU27 and the OECD. However, in the comparison between regions, the dashboard highlights the differing performing components. In 2010, all three case study regions performed better, with Łódzkie and Pomorskie now performing at a “poor” level and Małopolska at an “average” one, compared with Poland, which also performed better, with an “average” rating. Compared with the EU27 and OECD, the regions are not performing quite as well, but it seems the gap has closed. However, it should not be underestimated that the regions were still more exposed in 2010, and that there are significant demographic transitional concerns which require strategic policy responses. A positive trend can be distinguished for the performance changes (trend from 2000-10) in comparisons between the Netherlands, the EU27 and the OECD, and most likely indicates the improvements being made with the
support of the EU. Łódzkie’s and Pomorskie’s performance changes were “fair” while Małopolska’s was “average”. Table 2.3 outlines the indicators requiring more focus (2000-10) for each region, highlighting the need for continued policy diligence on the impacts of demographic transitions at the regional and local levels in Poland. Policy responses should be focused on the population changes, especially regarding declining youth rates and increasing rates of elderly people, and the future impact these changes will have on the economy and the labour market. Targeted actions aimed to increase skills and education levels, especially for adults in the workforce, will assist with socio-economic performance.

Figure 2.9. Poland’s case study regions’ overall dashboard results

Table 2.3. Focal indicators (2000-10) for the case study regions in Poland

<table>
<thead>
<tr>
<th>Region</th>
<th>Demography</th>
<th>Economy</th>
<th>Labour</th>
<th>Skills and education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Łódzkie</td>
<td>Youth population; elderly population; life expectancy (males); crude death rate</td>
<td>Primary income per household; GDP per capita</td>
<td>Employment of older workers</td>
<td>Students enrolled in education; participation of adults in education</td>
</tr>
<tr>
<td>Małopolska</td>
<td>Youth population; elderly population; life expectancy (males); crude death rate; fertility rate</td>
<td>Primary income per household; GDP per capita</td>
<td>Employment (overall, young adults and older workers)</td>
<td>Students enrolled in education; participation of adults in education</td>
</tr>
<tr>
<td>Pomorskie</td>
<td>Youth population; elderly population; life expectancy (males); crude death rate</td>
<td>Primary income per household; GDP per capita</td>
<td>Employment of older workers</td>
<td>Students enrolled in education; participation of female adults in education</td>
</tr>
</tbody>
</table>

Source: Author
As can be seen with the overall dashboard results above, there are very different territorial demographic, economic, labour and skills differences as a consequence of the national and regional context. These territorial differences will be more pronounced at the local level, and as a result, territorial differences require a strategic co-ordinated policy response that manages sustainable economic development not only on a regional basis, but also within the local context.

**Communities require more actions for the development of age-friendly cities and working places**

The World Health Organisation (2007) definition states that an age-friendly city encourages: “... active ageing by optimising opportunities for health, participation and security in order to enhance quality of life as people age” and thus “...in an age-friendly city, policies, services, settings and structures support and enable people to age actively by: recognising the wide range of capacities and resources among older people; anticipating and responding flexibly to ageing-related needs and preferences; respecting their decisions and lifestyle choices; protecting those who are most vulnerable; and promoting their inclusion in and contribution to all areas of community life”. During the workshops within the case study regions (Poland: Łódzkie, Małopolska and Pomorskie; the Netherlands: Drenthe/Groningen; Japan: North Kyoto; and Italy: Trento), participants, who were representatives of various public administrations and organisations, were asked to complete two surveys:

1. Older Workers Friendly Places to Work (OLWOF), consisting of the following categories: recruitment, work culture, training and skills development opportunities, and company health and benefits
2. Elderly Friendly Places to Live (ELFRI), consisting of the following categories: outdoor spaces and buildings; transport; housing; social participation; respect and social inclusion; civic participation and employment; communication and information; and community support and health services.

Figure 2.10 illustrates the rating (1 being poor and 5 excellent) for the OLWOF Index, with the overall index results between 2.9 for Zeeland (Netherlands) and 2.1 for Łódzkie (Poland). Participants did not consider that their regions were places that are friendly places to work for older persons, with all of them rating below average (i.e. below 3). Specifically, recruitment was rated between 2.7 for Zeeland (Netherlands) and 1.9 for Łódzkie; work culture and opportunities: 2.9 for Zeeland to 2.1 Łódzkie; training and skills development opportunities: 3.1 Zeeland to 2.0 in North Kyoto; firm health and benefits: 3.1 in Groningen/Drenthe, Netherlands to 2.1 in Trento, Italy. From the results, it can be seen that although none of the categories received high ratings, Groningen/Drenthe (Netherlands) was more advanced as a friendly place to work for older persons than regions such as Łódzkie, North Kyoto and Trento, where more policy effort is required.
Figure 2.10. OLWOF Index results

Note: NL (Netherlands), PL (Poland)

Source: Author based on survey questionnaire results.

The overall importance of OLWOF topics (1 being not important and 5 being very important) (Figure 2.11) was rated high in Pomorskie (4.1) to 3.4 in Trento, with the most important element of this index for all case study regions being company or firm health and benefits. Although the importance rating was not rated in the very important (5) category, which is of concern in an ageing society, it does indicate the rising awareness of these elements as having a consequence in their regions for friendly places to work for older persons. The difference between the overall and the importance ratings reflects a policy gap between the reality of the situation and what should occur and the significance of achieving friendly places to work for older persons, and thus providing a policy focus within the areas of recruitment, work culture, skills and training, and firm health and benefits.
Figure 2.11. OLWOF importance rating

![OLWOF importance rating chart]

Note: NL (Netherlands), PL (Poland)

Source: Author, based on survey questionnaire results.

Figure 2.12 illustrates the rating (1 being poor and 5 being excellent) for the ELFRI Index, with the overall rating of the index results falling between 3.2 in Limburg and Zeeland (the Netherlands) and 2.0 for Łódzkie (Poland). Participants in the Polish regions of Łódzkie, Małopolska and Pomorskie and Japan’s North Kyoto generally did not consider their regions to be friendly elderly places to live. The Netherlands’ regions of Limburg, Zeeland and Groningen/Drenthe and Italy’s region of Trento received an average rating (just above 3). Specifically, outdoor spaces and buildings were rated between 3.8 for Limburg and 1.7 for Łódzkie; transport ranked between 3.2 in Trento and 2.1 in Łódzkie; housing (public and private) fell between 3.4 in Limburg and Zeeland down to 1.7 in Łódzkie; social participation was between 3.4 in Zeeland and 2.1 in Łódzkie; respect and social inclusion was the highest at 3.4 in Zeeland and the lowest at 2.2 in Pomorskie and Łódzkie; civic participation and employment reached 3.0 in Zeeland and at its lowest was 1.9 in Łódzkie; communication and information was 3.3 Zeeland and 2.1 in Łódzkie; and community support and health services were 3.6 in Trento and Limburg down to 1.7 in Łódzkie. From the results, it can be concluded that although none of the categories received high ratings, Limburg and Zeeland are more advanced as elderly friendly places to live than regions such as Łódzkie, where more policy effort is required, particularly within the community context (both built and social structures).
The policy indexes emphasise the need for focusing on a territorial regional and local age management policy, highlighting that it is not just a national challenge, but a challenge that filters down to local communities. Regional and local areas require place-based development that is contextually focused on resilient communities, which are not only sustainable, but also inclusive. Age management practices should not only be encouraged, but actively promoted, in areas such as workplace flexibility and inter-generational engagement, lifelong learning, entrepreneurship, and active and healthy lifestyles.

**Policy recommendations**

Population shrinkage or stagnation is either being experienced or is projected to occur in the near future. Declining fertility rates and increases in life expectancy have meant there has been a profound impact on the population structure of countries across the world, as a result the proportion of the population over 65 has increased, resulting in an ageing population phenomenon. From the above analysis utilising country comparisons, demographic change dashboards, Active Ageing Index, Global Agewatch Index, the OECD OLWOF and ELFRI Indexes highlight a number of policy responses:

- The increasing life expectancy rates will have a profound impact on the population structure of these countries in the future, and will have implications for health, labour and social inclusion policies.
• The youth are these countries’ future labour force, therefore, the consequences of dwindling youth rates impact the socio-economic fabric of these countries’ futures. The importance of family policy, supporting family-friendly environments and workplaces, should be encouraged.

• Policy efforts need to be directed towards age management, in areas such as encouraging healthy and active communities, inter-generational solidarity, managing the ageing workforce, and lifelong learning.

• A constraint experienced implementing the dashboard was sourcing statistics that were comparable at the local level where territorial differences occur. Local statistics are highly important for informing local policy responses. Governments need to make a proactive effort to collect consistent and comparable local data and provide a user-friendly portal for making that information available.

• Overall there are very different territorial demographic, economic, labour and skills differences as a consequence of the national and regional context. These territorial differences will be more pronounced at the local level, and as a result, territorial differences require a strategic coordinated policy response that manages sustainable economic development not only on a regional basis, but also within the local context.

• Regional and local areas require place-based development that is contextually focused on resilient communities, which are not only sustainable, but also inclusive. Age management practices should not only be encouraged, but actively promoted, in areas such as workplace flexibility and inter-generational engagement, lifelong learning, entrepreneurship, and active and healthy lifestyles.

NOTES

i. The statistical data for Israel are supplied by and under the responsibility of the relevant Israeli authorities. The use of such data by the OECD is without prejudice to the status of the Golan Heights, East Jerusalem and Israeli settlements in the West Bank under the terms of international law.

ii. https://www.population-europe.eu/Library/Glossary/D
References


CHAPTER 3:

REPOSITIONING LOCAL LABOUR MARKETS WITH DEMOGRAPHIC CHANGE

With demographic change becoming a policy priority, especially in European countries, strategic approaches to demographic challenges require a re-positioning of labour markets towards sustainable and resilience strategies. This chapter looks at some strategic, co-ordinated policy responses involving local solutions, based on four policy themes.
All OECD countries and developing economies are experiencing demographic change and it is becoming a high priority for policy, especially in Europe. As outlined in a recent EU report (INTERREG IVC and European Union, 2012: 7) on declining, ageing and regional transformation (DART) demographics “… change constitutes a challenge for many European regions, as a result of low fertility and migration; by 2030 every third person in the EU will be over 60. This situation has created obstacles in providing adequate public services, while shrinking regional demands and the need for a sufficiently large qualified workforce are a big challenge to avoid endangering the economic basis of the regions”. The report highlighted three strategic documents that outline the importance of demographic change, including the “Vulnerability Index report”, the “Lisbon Strategy” and its successor “Europe 2020”.

Strategic approaches to demographic challenges require a re-positioning of labour markets towards sustainable strategies that promote resilience. A “whole-of-government” approach is needed to design economic development policies, population and health policies, labour market policies, and skills and education policies targeting sustainable and resilient communities. A holistic development approach that integrates economic growth, health, education, environment and other needs can produce higher quality outputs than stand-alone projects operating on a narrow spectrum of deliverables. The issues involved require converging strategies across policy fields, as can be seen in Figure 1.5.

Demographic transition means that decreasing fertility and increasing life expectancy are reshaping the age structure of populations; older age groups are increasing, whilst younger groups are in decline. Demographic transition has critical consequences for labour markets, with concerns about ageing of the labour force and an increase in old-age welfare dependency ratios leading to efforts by national policy makers to make social welfare systems sustainable by pushing back the age limit for legal retirement. As a consequence:

- Labour market issues in declining regions are essentially not different from national issues. Therefore, national strategies should also be applied in declining regions.
- Declining regions are often frontrunners in the demand for new policies, due to their more advanced stage in the ageing process and the relatively higher vulnerability of their populations.
- The regional and local context demands tailor-made solutions for each region.
- The regional and local policy makers and public and private strategy stakeholders should combine their knowledge and resources for innovative initiatives and solutions in a national, European and global perspective.

Demographic change requires strategic and localised solutions

The Polish and Dutch case studies and dashboard results revealed the complexity of the demographic challenges occurring within the regions, with each region experiencing different issues associated with its socio-economic situation. Demographic and economic decline is more likely to occur in peripheral regions with a limited economic structure, where there is dominant industry. Central urban regions with a diverse economic structure and/or regions with large sectors such as business services, industry or logistics, seem less vulnerable to demographic and economic decline. Territorial population decline and population ageing is having, and will continue to have, social and economic consequences for national, regional and local labour markets. Consequences include:

- A decreasing potential labour force, due to the declining numbers of youth and stagnating working-age population, leading to a dwindling labour supply, a tight labour market and more competition for workers, or even labour shortages.
• A decrease in industrial activity and business vitality as firms relocate or shift activities from shrinking regions to growing ones because of labour market issues.

• A decrease in the population and the number of households implies a smaller local market and may lead to an oversupply of services and housing. Such a surplus in housing may in turn result in vacant properties.

• Local services (e.g. infrastructure, transport, care) will become more expensive as demand in shrinking regions is expected to increase due to the ageing population with a simultaneous decrease in labour supply and eroded tax base as the population declines.

• Skills ecosystems weaken as the private sector and skilled labour force thin-out.

Strategic solutions must take into account the interplay of elements within a particular local area of development and encompass both local and regional capacity to attract and generate jobs within the national and economic context. Across Europe, there have been different approaches to public policy aimed at drawing more people into regional workforces and sustainable employment, such as regional economic restructuring; improved skills and training; inward migration and workforce mobility. At the same time, there are opportunities to be fostered, such as the development of the silver economy of older entrepreneurs, the white economy of medical services for the elderly population, and the natural green economy.

The need for holistic, but individualised, solutions that respond to the specific needs of the local community and labour markets need to be based on national/regional/local partnerships. The national-local axis requires systematic consideration for policy delivery. Due to socio-economic differences, regional systemic and sustainable strategies should primarily be explored, developed, implemented and reviewed, focusing on the key aspects that make the region unique. Essential measures for a strategic framework that provides the starting point and guidance for future projects and initiatives for regions include:

• Developing regional networks for local action in order to establish national and regional policies for demographic transition. Sharing experiences and community consultation on demographic change is necessary in order to raise the awareness of local authorities and businesses regarding the impact these changes will have on the labour market and economy.

• Strategies that are place-based and highly contingent on context (instead of place neutral). These should consider economic, social, political and institutional diversity in order to maximise both the local and the aggregate potential for economic development.

• A territorial approach that takes into account the demographic diversity of shrinking and predicted potentially shrinking municipalities. Policies should anticipate demographic decline in order to combat it. Municipalities, as well as the business community, should manage with less people; support people and families who want to stay; and provide a living environment that continues to appeal to existing and potential new residents – in particular, those in the 20-65 year-old age group, in order to maintain and potentially increase the labour force. Local communities should be made aware of not only the challenges, but also the opportunities inherent in local shrinkage, through education campaigns and raising awareness of innovative thinking and options.

For this reason, specific policies for demographic change need to be tailored to a comprehensive local strategic approach employing a multitude of efforts, such as greening, revitalisation, economic development and social cohesion. Figure 3.1 illustrates four interconnected policy themes that are vital for regional/local communities and labour markets attempting to manage a shrinking and ageing society which will be discussed in the following sections:

1. resilient and inclusive communities
2. inter-generational solidarity
3. dynamic and responsive labour market
4. skill ecosystems.

**Figure 3.1. Interconnected policy themes for managing demographic transition**

It is important to realise that local programmes for declining and ageing areas need to be supported, as noted by the recent URBACT II publication (Schlappa and Neil, 2013): “cities cannot tackle shrinkage alone, regardless of whether they are large or small … while the horizontal integration of social, economic and environmental action is of course essential at the local level, vertical integration of policy by different levels of government is equally important”. Support and policy response should not only come from the local, regional and national governments, but also supra-national authorities such as the EU for developing regions. However, to develop demographic transitional strategies, the quality of local population forecasting has to be improved. A common legal framework for small-scale surveys; a set of indicators for demographic change, which is simple to use and update; and co-ordination and co-operation to ensure
consistency and synergy of data are needed. This would allow the development of a local urban perspective in planning policies and decision-making processes.

**Place-based approaches for resilient and inclusive communities**

Local communities facing demographic changes respond in different ways. In some cases, regeneration tries to address social phenomena while in others major economic changes are responsible for outward migration of large population numbers from the local area. A diversity of actions is needed, as well as the interrelation of elements, for effective strategies to occur. Notably, many of the regeneration strategies try to re-orient the paradigm of growth to pragmatic downsizing (Germany), while in other cases the focus is on improving residential housing and living conditions, strengthening future socio-economic structures, and improving urban governance (Switzerland). Some countries continue their efforts towards brownfield site regeneration, social planning and housing policy (Czech Republic), while others think in terms of a new urban governance system, regeneration strategies and new development models for residential use (Spain) (Martinez-Fernandez et al., 2012). There is a need to give priority to improving local living conditions (housing, public space), which could serve the needs of the existing population and attract new inhabitants, such as increasing the quality of the housing stock to help retain the most well-off population, and maintaining the provision of social housing to avoid the displacement of low-income households.

The local level is the place where development actions are implemented, is increasingly important to the socio-economic environment; contributes to national economic performance; and has a critical role in job creation and skills development and retention. “Local development is about building capacity of a defined territory to improve its economic future and quality of life for the inhabitants” (Martinez-Fernandez et al., 2012). It is about building community capacity so citizens are more able to confront economic and social challenges by inclusive involvement, which enables all members of the community to contribute to local development (OECD/Noya and Clarence, 2009). The local dimension is of key importance in responding to demographic transition, it is about the activation of citizenship and local leadership. As Schlappa and Neil (2013: 26) noted “…citizen engagement is essential for developing a meaningful and realistic strategy, … and deep collaboration between public agencies and citizens may make the difference between success and failure …”

There are four key approaches to resilient and inclusive communities:

1. implementing sustainable economic development
2. creating family policies for friendly communities
3. investing in healthy lifestyles and active communities
4. supporting personal and social networks in fostering vitality of places.

**Implementing sustainable economic development for managing demographic transition**

For countries that are experiencing demographic change such as population decline and ageing, a more sustainable economic development approach is needed for regional and local areas. For example, demographic changes such as population decline in Łódzkie (Poland), and population ageing, low fertility and migration faced by Malopolska and Pomorskie, are key challenges faced by their regional governments. However, due to their socio-economic differences, regional systemic and sustainable strategies should first be explored, developed, implemented and reviewed, focusing on the key aspects that make the region unique. There is a need to employ sustainability measures for declining areas by diversifying local utilisation of natural resources by incorporating other values in addition to the industrial
Box 3.1. Place, space and sustainable development

The importance of sustainable development underlines the need to adopt a long-term approach that considers economic, social and environmental issues at the same time. The twin effects of demographic change and shrinkage are a complex and multi-dimensional process and, increasingly, a worldwide phenomenon. However, the local level stands as a fundamental level of analysis and policies. Local governments and organisations are expressing a strong need for expertise to deal with associated challenges, particularly regarding local labour markets.

The process of urban shrinkage is one of the products of the inter-relationship between globalisation, deindustrialisation and demographic change. It creates a negative spiral of unemployment, loss of services, deterioration of infrastructure and housing, loss of amenities, negative image of territories (due to the deterioration of the surrounding environment), often leading to the outward migration of young and skilled inhabitants and to the difficulty of attracting new people. In the end, this creates a phenomenon of socio-spatial segregation.

To address territorial shrinkage, there are several aspects of possible policies and strategic approaches that can be suggested. Policies should foster social innovation, which could provide fresh ideas to manage shrinkage, particularly through new participants such as social entrepreneurs and social enterprises (Noya, 2009). Challenges can be turned into opportunities, through multi-dimensional and innovative approaches. In addition, social innovation could be embedded in the policy strategies to foster, for example, the silver economy, green growth or smart planning in view of population decline.

Including multiple participants is important; this includes new private players, such as social entrepreneurs, together with other public stakeholders (national and local), business, education and training organisations, trade unions and non-governmental organisations (NGOs). The necessity of policy co-ordination and coherence, particularly between the national and the local level, is crucial to increase the effectiveness of policy delivery and the implementation of programmes and strategies by local actors.


Essential measures for a strategy that provides a starting point and guidance for future projects and initiatives for regions include:

- settling new immigrants
- improving and promoting transport accessibility
- creating family-friendly communities
- supporting entrepreneurship, small and medium enterprises (SMEs), and research and innovation
- stronger local job creation.

Importantly, for regions where the population is shrinking, addressing the issue of sustainable development is not all about “growth”; a paradigm shift is required in some instances that calls for different instruments and strategies more anchored to the local situation and manifestations of shrinkage (Martinez-Fernandez et al., 2012). Therefore local strategies of urban restructuring can prepare declining areas for the consequences of demographic change and urban shrinkage, and offer favourable conditions...
for new development opportunities. Schlappa and Neil (2013: 29-30) noted the importance: “re-imaging or repositioning a city in the minds of citizens is the foundation of creating and maintaining place identity ... the aim should be to create a dialogue among local stakeholders”. Regeneration strategies need to be long term and have a comprehensive strategic agenda, focusing on a detailed analysis of the conditions of the urban area and the interactions of its citizens and institutions. They need to integrate economic, socio-educational and urban policies, and consolidate efforts in relation to innovation, entrepreneurship and human capital. Strategies should be aimed at improving the physical, social and economic conditions and at environmental amelioration, to achieve better urban quality. Specific policies for regeneration require robust and flexible strategies that encourage creative solutions; a model of urban governance with a clear vision and operational objectives incorporating local, regional and inter-municipal co-operation; the integration of multiple public and private stakeholders.

**Creating family policies for friendly communities**

The case study countries of Italy, Japan, Poland and the People’s Republic of China are experiencing falling fertility rates; those of the Netherlands and Sweden, although still below replacement levels, seem to have stabilised. According to the *OECD Factbook* (2013), “… fertility is an element of population growth, which reflects both the causes and effects of economic and social developments”. As illustrated in Figure 2.2, fertility rates are either declining significantly or have stabilised below the replacement level, which is 2.1 children per woman. “Generally total fertility rates in OECD countries have declined dramatically over the past few decades, falling on average from 2.7 in 1970 to 1.7 children per woman of childbearing age in the 2000s” (OECD, 2013a). For example, fertility rates in Poland, and more specifically in rural and urban centres, have been below replacement level for the last two decades. The fertility rate is more serious in the large cities, with all three capital agglomerations of Łódzkie (Lodz), Małopolska (Cracow) and Pomorskie (Gdansk) being characterised by very low fertility rates over a long period (since the 1960s).

The challenges of low fertility tendencies need a long-term and stable family policy supporting parenting decisions by creating the conditions to ensure that more children are born, and improving the quality of life and reducing poverty among families. Successful family policy requires state-level legislative initiatives to support regional and local efforts to reverse negative trends (OECD, 2011d).

“… fertility rate recovery is no longer a real possibility without extensive and intense child care and work-life balance facilities…” (INTERREG IVC and European Union, 2012). The focus should be on policies that better support families, in particular better conditions for working parents and for those entering the labour market. Increasing awareness of the need to support families in the public and private sectors and the need for flexible access to childcare are keys for family policy. Institutional supportive structures that promote family values, monitor family situations and recognise problems are required, such as financial assistance, social infrastructure and flexible forms of employment and workplaces.
Box 3.2. Family support policies in OECD countries

The six main aims of family-support policies:

1. Poverty reduction and income maintenance
2. Direct compensation for economic cost of children
3. Foster employment
4. Improve gender equality
5. Support for early childhood development
6. Raise birth rates


Successful family policies require a national long-term policy whereby regions are supported by central area initiatives “… that recogni[s]e the changing nature and diversity of family structures and forms, and geographical distances that prevent families from providing care and support to their dependent relatives.” (p. 8). National policy needs to take into consideration the diversity of the family unit across their respective countries (rural/urban) and allow flexibility for intra-regional differences.

Box 3.3. Family policies initiatives

At the national level: One of the objectives of the Long-Term Care Insurance Act 1998 in Luxembourg is to acknowledge the role of informal carers and provide them with support. Specific measures in support of family carers encompass advisory services, payment of pension insurance contributions for those below 65, respite care and support for the adaptation of the house and technical aids. It has enabled a massive development of home-based care and help services, and family advice and support services.

At the local level: The Substitute Grandparent Scheme in Denmark. A number of Danish municipalities have implemented a scheme enabling senior volunteers, acting as substitute grandparents, to take care of ill children when parents do not have the opportunity to take time off from work (European Platform for Investing in Children). It aims both at relieving families and helping them with childcare in connection with illness, and at promoting active ageing and inter-generational solidarity. Similar initiatives are implemented by local NGOs in other regions of the European Union.


Investing in healthy lifestyles and active communities

The ELFRI Index revealed alarming results regarding community support and health services, social participation and civic participation, all of which negatively impact on healthy lifestyles and active communities for the elderly. The DART project noted that “… the increasing life expectancy, the superannuation of the population and the decreasing birth rates pose a challenge for healthcare systems” (INTERREG IVC and European Union, 2012: 22). Schlappa and Neil (2013: 37) identified synergies between healthy, age-friendly and child-friendly cities:
• A healthy city creates and improves its physical and social environments, and expands the community resources that enable people to support each other mutually in performing all the functions of life and developing to their maximum potential.

• An age-friendly city is one where the physical and social environments enable people to remain healthy, independent and autonomous long into their old age. Older persons play a crucial role in their communities – they engage in paid or volunteer work, transmit experience and knowledge, and help their families with caring responsibilities. They can only make these contributions if they enjoy good health and if societies address their needs.

• A child-friendly city strives for non-discrimination, clear accountably for children’s rights as well as safe, green environments.

Promoting community’s state of health, especially within an ageing society, is an important place-based approach. Early release from the workplace can often be the consequence of a person’s poor health. The need for new services in areas such as education, entertainment/leisure, information technology, financial services and transport, can encourage longer, healthier and more active lifestyles by creating family-friendly environments and active policies to improve living opportunities for the elderly. The ageing of the population structure will increase the demand for new social services and the health sector. The issue becomes greater within territorial areas with shrinking populations because services will become more expensive for consumers due to increased demand and a decreased labour supply. The delivery of care services should put an emphasis on flexibility and financial effectiveness, and promote opportunities for some services to be delivered by social enterprises.

According to Ahtonen (2012), creating a European society that promotes healthy and active ageing demands the following actions:

1. increasing healthy life expectancy: health and disease prevention must be promoted

2. creating age-friendly environments: addressing issues such as transport, infrastructure, pollution, housing, public spaces and services

3. increasing the retirement age and the labour market participation rate: more discussion is needed on making early retirement less flexible and later retirement more feasible, abolishing mandatory retirement ages, managing the transition between work and retirement, maximising volunteering and second career opportunities after retirement, and changing employers’ and employees’ attitudes to part-time work and longer careers.

Early investment in healthy lifestyles and active communities, which incorporate new approaches to the development of infrastructure and the provision of services, are designed to reduce medical costs in later life. Such investments include: community-based agencies for health and social support; facilitating non-profit/voluntary efforts; and fostering local resource sharing. The importance of continued resources and support to the white sector is of utmost importance considering the ageing of the population. Developing health clusters would assist by creating a network and pooling resources for the benefit of the community. Box 3.4 outlines international initiatives in facilitating and promoting healthy and active lifestyles.
Box 3.4. Promoting healthy and active lifestyles in Scotland and Australia

Reshaping Care in Scotland

The Reshaping Care for Older People is an initiative of the Scottish government aimed at improving services for older people by shifting focus towards anticipatory care and prevention. The “Reshaping Care for Older People: A Programme for Change 2011-2021” outlines the following key themes:

- partnerships in a community business model to keep people out of the formal care system
- helping people remain at home using telecare and home adaptation, supporting healthy ageing through diet, exercise and fall prevention
- creating effective care pathways including anticipatory care plans, managed care networks, re-enablement and implementation of dementia strategy.

Healthy and Active Australia

The Australian government has a campaign committed to the promotion of healthy lifestyles, addressing obesity and taking preventative measures to improve the health of the community with a number of initiatives including:

- Get Set 4 Life: a guide providing information on key areas of health and development.
- Stephanie Alexander Kitchen Garden National Program: primary schools learn how to grow, harvest, prepare and share fresh food.
- Learning from successful community obesity initiatives: bringing together the lessons learnt from community projects aimed at preventing obesity.
- Aged Care: a website with information on elderly care, staying at home, elderly care homes, carers and family and health.
- Healthy Communities Initiative: a three-phase initiative from April 2010 to June 2014. The Australian government is issuing grants to local governments to deliver effective community-based physical activity and healthy eating programmes and to develop local policies that support healthy lifestyle behaviours.
- Healthy Weight: a website providing information on physical activity and nutrition to achieve and maintain a healthy weight.
- Active After-School Communities (AASC) Programme: provides primary school children with a fun, free and safe introduction to over 70 sports and 20 other structured physical activities and encourages lifelong participation in sport.
- MyHospitals website: online vehicle for the National Health Performance Authority to report on the performance of individual hospitals and local hospital networks, enabling patients to compare the services available at, and the performance of, different hospitals in their local area.
- Healthy Spaces and Places project: a partnership between the Australian Local Government Association, the National Heart Foundation of Australia and the Planning Institute of Australia in the development of the Healthy Spaces and Places Planning Guide.

Supporting personal and social networks in fostering vitality of places

The youth populations in many of the case study regions are declining or have stagnated, young families are leaving regional areas for better opportunities in education and employment, while at the same time, population ageing continues. According to Martínez-Fernández et al. (2012), the complexity of the interaction between demographic change and shrinkage is especially witnessed when the social dynamics are considered. Keeping social cohesion and developing new social dynamism in shrinking areas, where the economic and social fabrics are eroded and where groups at risk of exclusion live (elderly, lone parents, long-term unemployed) requires a set of integrated approaches.

Social inclusion is important within the dynamics of demographic change to allow local populations to take an active part in the economic and social life of their community. Involving people will help build trust in the community and has the potential to influence individual decisions about whether to stay or leave the area. Social inclusion can also contribute to the community learning process by helping people understand how society works and how they can improve their own lives. Co-constructed, holistic policies and socially innovative practices and programmes are needed to provide services to the elderly, to families and the excluded. Social innovation, which aims to improve the quality of life of individuals and communities, has a central role to play in addressing these issues. Intangible factors such as culture and creativity can be excellent levers for the revitalisation of shrinking areas, and skills development and transfer can harness capabilities in shrinking areas. Efforts should also focus on encouraging the existence of personal networks and personal attachment to the area, for example, if a person has roots in the area they might be willing to continue their life there so relatively less energy is required to attach them to the area (Musterd and Murie, 2010; Musterd and Kovacs, 2013). Policy makers must recognise the importance of the vibrant socio-cultural climate in urban areas in order to promote the quality of life and economic prosperity of the city. Public policy should not only focus on places or industries, but on people as well, creating opportunities for people to exercise their creativity.

There is a need to invest in social and prosperous communities to maintain and increase the vitality of places and encourage personal networks and/or attachments, which stimulates the business environment and improves quality of life, entrepreneurship and innovation. All are factors that can foster resilience in shrinking areas. Investments can be in the form of institutional assets that are located in shrinking places and that can act as “magnet infrastructure” (e.g. a new educational institution or a cultural landmark) as well as digital media to be used in promoting inter-generational (alumni) and social networks. Good communities nurture entrepreneurship and healthy lifestyle living conditions.

Good examples of investing in culture and social networking can be seen in the city of Heerlen in the Parkstad Limburg Region in the south of the Netherlands, which is experiencing a declining population (Box 3.5). Universities also play a role in the community because, although they are part of the essential infrastructure, “… their students create buzz and liveliness in the cities in which they are located, and through that they significantly contribute to the attractiveness of many cities. In addition to direct economic advantages (R&D, spill-over, etc.), universities might also be indirectly beneficial for local economies because students develop important networks during and after their study, including business and personal networks. Students are often attached to the city in which the university is located. This offers opportunities for local policies to retain them for the city” (Musterd and Kovacs, 2013). An innovative example is from Kyoto, Japan, called CUANKA (a Platform of Community and University Alliance for Regeneration of Northern Kyoto, see Box 3.6).
Box 3.5. Culture and social networks in Heerlen (Netherlands)

The Zachte G Network for Creative Economy is a virtual, open web platform in which inhabitants can display their talent and work. It provides a climate in which there is room for initiative, experimentation and diversity and contributes to forming new networks for young talented people. Zachte G also promotes engagement and discussion on issues relevant to the region.

The Design for Emptiness Challenge is a strategy to increase the involvement of creative professionals in the issue of vacancy. The Zachte G community was challenged to propose concepts, ideas or strategies that provided creative solutions for vacant buildings in the city centre. The challenge was intended to change the mindsets of authorities and provide recognition that young professionals, artists or cultural producers can bring financial, creative and social capital to the inner city. In December 2010 the winners opened their fashion and art shops.


Box 3.6. Community and University Alliance in North Kyoto (Japan)

Northern Kyoto (Japan) has been experiencing economic and population decline. The Community and University Alliance for Regeneration of Northern Kyoto Area (CUANKA) was established in 2012 to address these problems, through collaboration between Kyoto’s universities and stakeholders such as administrative institutions and Non-Profit Organisation (NPOs), to invest in the city’s intellectual and human resources.

1. Whole area (Northern Area of Kyoto): the Inochinosato (Village of Life) project was subsidised by Kyoto prefecture to promote entrepreneurship and encourage local activities, as well as to nurture leaders for revitalisation.

2. Allied area – consumer structure (numerous areas within Northern Kyoto): research and analysis of the structures of consumers’ behaviours to build up an innovative commerce policy. It was implemented by two universities, three cities, three chambers of commerce and COLPU, sponsored by three cities and MEXT.

3. Allied area – ecotourism (numerous areas within Northern Kyoto): aims to develop an ecotourism with motor-driven bicycles supported by a renewable energy system. The project is implemented by two universities, Kyoto prefecture, three cities and three cities’ tourist offices, a local railway company and COLPU, sponsored by Kyoto prefecture, COLPU and MEXT.

4. Single area (local area and specific focus): aims at local regeneration by establishing a system for barrier-free tourism in Miyazu City. It is implemented by two universities, Kyoto prefecture, Miyazu City, Miyazu City Chamber of Commerce, a tour operator and COLPU, sponsored by Kyoto prefecture, MEXT and COLPU.

CUANKA brings together nine participating universities, with subsidies from the Japanese Ministry of Education, Culture, Sports, Science and Technology (MEXT), together with funds from the local governments for individual projects.

Source: see Chapter 6.

Inter-generational solidarity for ageing societies and local labour markets

The ageing of the population and increasing life expectancy will have a growing impact on the interactions between generations, especially within local labour markets. According to INTERREG IVC
and European Union (2012: 10), over “… the next 20 years, the ageing process in Europe will speed up considerably. … The share of the old population in the overall population will increase … from 17.4% to 23.6%”. With the population ageing, inactivity of older age groups will increase the strain on social security and pension systems. Inter-generational solidarity:

… means different things to different people. To some, it simply means that different age groups have a positive view of one another, which raises the important issue of the degree to and the way in which different generations interact. Others stress the importance of consensus between generations on the best way forward.

These are examples of the view that inter-generational solidarity is a desirable value in itself. Another perspective is that inter-generational solidarity is a means to an end: a mechanism for supporting mutually beneficial exchanges between generations. In addition, involving multiple generations allows rights, responsibilities and risks to be shared. Because needs and resources vary across the lifecycle, each generation potentially gains from such exchanges. They can go in both directions. Forwards, towards younger generations, are investments in child-care and education, infrastructure, innovation and environmental protection. Backwards, to older generations, are pensions and care for older people.

This perspective on inter-generational solidarity highlights the social and economic policy issues. The family and the government are the best institutions for making this inter-generational exchange work. The market is less able to do so because youngsters and the unborn cannot sign contracts. However, the “third sector” – charities, voluntary associations and so on – can also help foster inter-generational solidarity. (OECD, 2011a: 5)

There are three key policy responses to manage inter-generational solidarity for ageing societies and labour markets:

- promoting a new work continuum: longer employment and increased productivity
- implementing programmes for engagement and integration in the workplace
- reforming workforce age management: workplace perceptions and designs

**Promoting a new work continuum: Longer employment and increased productivity**

The OILWOF Index revealed dire circumstances for older workers in regional areas, with recruitment, work culture and opportunities, and training and skills development opportunities all receiving below average to poor results. Bertelsmann Stifung and Europam Policy Center (2013: 8) identified key barriers or disincentives to employment for older persons:

- Health: enable longer working lives. Poor health and mental illnesses due to stressful working conditions are a common factor leading to workers’ withdrawal from the labour force.
- Qualification and skills: ability to work at an older age. Workers’ ability to obtain and further develop skills throughout their working lives. Older workers are often at risk of suffering from outdated skills, while there are fewer lifelong learning opportunities offered to them.
- Motivation, job satisfaction and employers perceptions. These factors directly influence workers’ propensity to continue employment, such as prejudice and stereotypes about skills and productivity.
• Age-appropriate workplace settings and the quality of work. This is a key element when trying to retain an ageing workforce and its productivity. While larger companies might have the financial resources to adjust job profiles to an ageing workforce and implement age-management measures, smaller firms often are unable to cope with these tasks and costs. The employee also may take prevalence of taking over care responsibilities for family members. If work is incompatible with family responsibilities, remaining in employment could be difficult for older workers.

• Labour market and social security regulations, such as formalised early retirement schemes and pension systems combined with reduced activation efforts by public employment services and wage profiles, could lead to premature lay-offs and preferred early retirement.

There is a tendency for older workers to retire relatively early, either because they have reached retirement age or have a preference to stop working. Governments are in the process of raising the retirement age and, although this will increase labour participation among the older age cohorts, it will not fully compensate for the expected decline in the potential labour force. Nevertheless, the raising of the retirement age will place less pressure on national old-age entitlements and encourage longer and more active working lifestyles. Another reason that older workers leave the workplace is the increasing competition from younger and better educated persons, the widespread use of technology, and unsupportive work cultures and behaviours. Encouraging companies to implement age management practices such as flexible working hours, opportunities for older workers to update their skills, and better health and/or safety programmes would encourage older workers to stay within the working environment.

There is a need to encourage a new work continuum ranging from full-time to part-time employment options for companies, governments and other sectors, to extend the length, variety of and engagement in working life, leading to longer employment and increased productivity for people across all sectors. This will extend the working age while allowing people to meet the requirements of family and community and will, in turn, improve personal, family and community health. Inter-generational engagement in changing working conditions also needs to be taken into account.

Governments and companies can play a role in facilitating work after retirement. Box 3.7 highlights some examples, projects and initiatives along these lines. Promoting a new work continuum would provide opportunities for the younger generations to interact and learn from their older co-workers/mentors.

**Box 3.7. Facilitating work after retirement**

**Governments** can play a role by shaping labour markets, developing equal opportunity and social protection policies as well as tax and benefit systems. For example, in Sweden, employers are exempt from payroll taxes for all employees over the age of 65. A pilot scheme in Italy offered workers who were about to retire the possibility to postpone retirement by three years, and add employer and employee social security contributions to their income.

**Companies** can also play a role, with measures aimed at attracting and retaining pensioners. Examples include the Ship Design and Research Centre in Poland, where 7% of its employees are retirees. Most of these people work in areas in which they have expertise that the company does not want to lose. As pensions in Poland can be low in comparison to the increasing cost of living, work has become a necessity for many, even for the relatively well-off. A recent national law, however, requires pensioners to resign and re-apply for their jobs to continue receiving a pension in addition to their working income. For some, this might mean the end of their employment.

Some companies also specifically recruit older workers. One example is Seniorjobbarna in Sweden, which conducts agency work in areas such as crafts, cleaning and gardening. Another is the Austrian Senior Expert Pool, which provides consultancy services, mainly in management or highly specialised technical areas. In both
cases, the option of working part-time and with flexible working hours was considered crucial in attracting and retaining retirees.

The Senior Enterprise project\(^1\) is an EU initiative from the ‘European Year for Active Ageing and Solidarity between Generations 2012. The project aims to raise awareness about how people over 50 can engage with enterprise and the benefits that can flow from that engagement. This could be through starting a business, alone or with others; acquiring or investing in a business; advising an entrepreneur; or supporting innovation within a business owned by another.

The four-year project (2010-14) is being implemented in Ireland, the UK and France and nine observers across north-western Europe. The change in demographics is viewed in an almost entirely negative light by many people, but the promoters (The Mid East Regional Authority, Ireland) of Senior Enterprise believe that the over 50 age group is a source of untapped potential that could be used to drive forward Europe’s national economies.

It is intended that, as a result of Senior Enterprise, more businesses will have been started, more investment will have been made and more senior citizens will be active as advisors in new and developing businesses. The project is being implemented by partners in France, Ireland, and the United Kingdom, and nine observers across north-western Europe.

PATRON Project (Spain)\(^2\) a Grundtvig\(^3\) project identifies and tests ways to transfer skills that senior managers and entrepreneurs have developed in their working lives which have helped them to develop their creativity, competitiveness, management and entrepreneurial capacities. Young entrepreneurs and managers benefit from this skills transfer in the participating countries and regions. The methods and results are disseminated through the project’s website, and can be used in other participating regions. For more details, see: www.patronproject.org.

3. Launched in by the EU in 2000 and now part of the overarching Lifelong Learning Programme, Grundtvig programme aims to provide adults with ways to improve their knowledge and skills, keeping them mentally fit and potentially more employable. The programme has three actions including Multilateral projects, multilateral networks and accompanying measure. http://eacea.ec.europa.eu/llp/grundtvig/grundtvig_en.php

Implementing programmes for engagement and integration in the workplace

Demographic change, population ageing, a declining youth population and shrinking working-age population all have potential consequences for national, regional and local labour markets. For example, Sweden is expecting a generational shift in the labour market, with expected retirements from 2011 to 2025 resulting in labour force stagnation or decline. The generation shift will impact industries and regions. Although some metropolitan areas’ labour force will increase, others will experience a significant impact resulting in labour shortages, with the largest declines expected for the counties of Norrbotten, Gotland and Dalarna. There is an increasing necessity to mitigate the impact of demographic ageing and shrinkage of the working-age population by facilitating the entry of young people into employment and enabling older workers to remain involved in the labour market (King Baudouin Foundation and European Union, 2012).

Therefore, there is a need to identify and implement programmes to re-position workers (older and younger) who are un-(or under) employed, especially less-skilled workers, in a concerted effort to encourage their participation and integration into the workplace (job carving) and to connect older and
younger workers in the workplace. Incentives for staying in work after age 60, as well as social security systems designed to promote working later in life, need to be developed, including creating new roles within companies for workers in their later life. Examples of strategies for activation and integration are highlighted in Box 3.8.

**Box 3.8. Examples of strategies for participation and integration into the workplace**

**Older workers**

In Germany, Perspective 50 Plus – Employment Pacts for Older Workers in the Regions, is part of the Initiative 50 Plus programme under the German Federal Ministry of Labour and Social Affairs.1 A programme of regional employment pacts was launched to initiate and evaluate new strategies targeting older workers. Those supported are predominantly among the low- or semi-skilled long-term unemployed. Job centres and local authorities find the activation and integration of older workers particularly difficult and these regional employment pacts aim to involve all appropriate regional and local stakeholders to ensure more and better employment for this group. This form of regional co-operation takes a cross-sector approach including: the labour market; employment; social and health policies. Regional pacts have deployed a wide range of different tools and instruments, including profiling, assessments, special training measures, internships in companies, placement activities (adapted to the special needs of the target group), wage subsidies for employers, time management and publicity campaigns to raise awareness of the challenges of demographic change.

**Job carving**

Canada’s WORKink®2 is an online career development and employment portal for persons with disabilities. However, it can be applied to persons who are unemployed or less skilled. The portal describes the values of “job carving” (or creating roles), thus “structuring one or more jobs to make the best use of all employees’ skills and abilities”. To implement successful job carving practices it is important to consider:

- Changes in supervision requirements, such as more frequent instructions and guidance.
- Alternative methods of conveying job instructions and adding new tasks.
- Co-worker involvement and support.
- Involvement of a community agency that works with employers to define roles, assist in training employees and ironing out some of the initial details.
- Job or work experience with defined time parameters.
- Staying positive. Being prepared to deal with some co-workers’ negative perceptions about “make work” projects and short-term limited opportunities.

**Sources:**

Workplace participation and integration also refers to actions implemented in the workplace such as mentoring and companionship – two approaches that not only promote inter-generational skills development but also encourage professional relationships and remove the negative perceptions of older workers. Mentoring is the sharing of work-related know-how and the “... objective is for older workers and younger retirees to transmit their skills to younger workers. Through mentoring, an older worker introduces a younger worker to his/her social and professional environment, a valuable aid in many occupations where contacts and networking are essential. Mentoring is highly valued by older workers and recently retired workers because it allows them to make use of their professional skills and maintain contact with the work environment. In terms of companionship, retired craftsmen teach the young the skills of their trade and strive to pass on their skills, knowledge and passion for their job to future generations. Carpenters, cabinet-makers, masons, electricians, etc. who often acquired their trade on the job, seek to
help young people, often those experiencing difficulties at school, to find their vocation” (King Baudouin Foundation and European Union, 2012: 20-21).

Reforming workforce age management: Workplace perceptions and designs

The OLWOF Index for work culture and opportunities reveals a below average result for all of the case study regions. Ageing societies are impacting on the composition of the workforce and, as highlighted in the dashboard results older persons, employment is of critical concern in Poland and unemployment of older persons is critical in differing regions in the Netherlands. CEDEFOP (2012) stresses the need to tackle the challenges associated with an ageing workforce and make use of new opportunities. The report states that actions from stakeholders on all levels are required, including enterprises. Reversing the negative stereotyping; encouraging investment in the ageing workforce, for example in workplace design and management concepts; or promoting lifelong learning for ageing workers, is not only needed, but is also essential for maintaining a sustainable labour force in the future. According to an OECD (2012d: 34) report, a key priority of OECD countries is to encourage work at an older age, and should be a key policy agenda “…to pay particular attention to demand-side issues and appropriate measures to strengthen employability of older workers …more focus should be given to improving the demand for older workers and on facilitating greater labour mobility as a way of promoting employment at an older age.”

There is a need to focus attention on the removal of mental barriers and negative perceptions of age and ageing workers through information campaigns. At the same time, local campaigns are needed to identify and encourage enterprises (public and private) to assume responsibility for implementing age-sensitive workplace design, management and leadership (CEDEFOP, 2012). It is important to raise awareness of the benefits and challenges of active ageing to employers and encourage them to invest in their staff and stimulate age-friendly HR policies; organise initiatives to eradicate the negative perceptions of age; encourage guidance and counselling services that incorporate a life-cycle perspective that promotes employability and that is adapted to the needs and abilities of the ageing population. Box 3.9 highlights an age management policy in a UK gas supplier.

Box 3.9. Centrica: Age management policy (United Kingdom)

Centrica, a large-scale UK gas supplier, is attempting to encourage age diversity among its labour force by setting up various measures such as the Age Action Group, which brings together the managers of various sections to see how they, as a group, can best meet the needs of their ageing workforce. With this in mind, they have developed an awareness-raising programme on age management with flexible working conditions, a network of staff members with family obligations, teams of different ages and potential for mentoring. They feel that the age mix helps staff members in these groups to be mutually enriched.


Dynamic and responsive local labour markets that respond to demographic and economic transitions

Countries, regions and local labour markets are continually faced with both demographic (population change and ageing) and economic (financial crisis) transitions, as highlighted by the dashboard, which impact on youth, elderly and economic dependency ratios. Developing dynamic and responsive labour markets requires an integrated response. Central governments are no longer the sole provider of territorial policies. Shrinking areas require a coherent policy response from national and local governments to maintain existing jobs, generate new employment and protect vulnerable households. National, regional
and local levels of government need to align their various strategies in order to develop a consistent
direction to meet development objectives, leverage economies of scale, and reap the dividends of joint
initiatives that share knowledge and reduce operational overheads.

There are three key policy actions to foster dynamic and responsive labour markets during
demographic and economic transitions:

1. creating policy dialogue: regional facilitation and networking
2. developing new local workforce ecologies: entrepreneurship, SME and workforce
flexibility
3. embracing new sources of growth: opportunities and innovation in labour markets.

Creating policy dialogue: Regional facilitation and networking

Improving the policy coherence between national and local levels of government (vertically) and co-
ordination across different ministries (horizontally) can significantly increase the effectiveness of
programme delivery and the quality of services provided. The interests of the national and local
governments may not always be in harmony. National considerations, such as increased gross domestic
product or improved foreign exchange flows, may not always mesh with local government’s concerns,
such as local job creation, infrastructure development and social protection programmes. National and
local governments need to harmonise (Box 3.10) development objectives (e.g. enhanced rural access) to
avoid redundant programmes and heighten the effectiveness of programmes occupying shared geographic
and technical space (e.g. environment). At the same time, identification of conflicting national-local
objectives (e.g. the planning of rural roads for extractive industries rather than for improving market access
for remote rural producers) can result in a national-local dialogue that can lead to the development of an
innovative win-win situation (OECD, 2011g).

Box 3.10. Opportunities and challenges for effective harmonisation of national-local strategies

There are significant opportunities for local strategies to play a deciding factor in the success of national
social and economic programmes. The core advantages of including a local dimension into a national strategy are
manifold. Key gains are:

- greater flexibility to changing local opportunities and challenges
- improved utilisation of scarce resources through better targeting
- greater support for longer term, national strategic plans through leveraging quick wins.

The harmonisation of national-local strategies and inter-ministerial co-operation can yield significant
efficiency dividends. A successful alignment and division of roles hinges, naturally, on the effective degree of
decentralisation. Several challenges may impede government synchronisation and policy alignment:

- local government priorities do not coincide with national priorities
- lack of experienced local managers or technical experts to address new local mandates
- limited local financial space that restricts local governments’ ability to mobilise resources for their
initiatives.

Source: OECD/International Labour Office (2011g), Job-rich Growth in Asia: Strategies for Local Employment, Skills
Development and Social Protection, Local Economic and Employment Development (LEED), OECD Publishing., DOI:
10.1787/9789264110984-en
Encouraging horizontal integration and vertical alignment of policies is required for dynamic and responsive labour markets. This alignment can be achieved by promoting co-operative frameworks and regional co-ordinated approaches, such as territorial employment pacts (Box 3.11), an innovative approach to initiate networks that provides an institutional framework and commitment for regional and local targeted employment strategies. Regional employment pacts should be established to complement local approaches, providing a simple and effective mode of governance whereby stakeholders communicate and co-operate as equal partners, thus encouraging local empowerment. The implementation of local employment programmes can activate hidden reserves of the labour market and reduce the effect of the shrinking workforce due to ageing.

Box 3.11. Territorial employment pacts

Employment pacts were initiated in 1997 by the European Commission, with a call for submission of projects under a “territorial employment pacts” initiative to improve the employment situation. The local pacts for employment are formed as multi-level partnerships between entities of key significance for local labour markets. Local governments can play a leadership role in elaborating strategies for active intervention on the local labour market together with local partners.

Territorial Employment Pact in Vienna

The Employment Pact in Vienna began its formal co-operation in 1999 and is a partnership between the municipality of Vienna, the Public Employment Service, the Wiener ArbeitnehmerInnen Förderungsfonds (Vienna Fund for the Promotion of Employees – WAFF), the Federal Social Welfare Office – Vienna Regional Office, interested representatives of employers and employees (working group of the federal province). The objective is to support economic development and the development of employment policies for Greater Vienna with forward-looking, concentrated labour market interventions. The core function of the pact is to co-ordinate co-operation and to harmonise the strategic and operative labour market and employment policies in Vienna. Its functions are facilitation of co-ordination, collaboration and co-decision making in order to improve employment. These activities are based on joint programme development and financial co-ordination of the three key partners: the Vienna Fund for the Promotion of Employees, the Public Employment Service and the Federal Social Welfare Office. The pact has two special focus areas: youth, who require support in the transition from school to training, and people at a risk of being permanently excluded from professional life. The labour market and employment policies are linked to other policy areas (social, economic, education). The pact has a transnational co-operation project with Bratislava (across the border in the Slovak Republic).

Barcelona Employment Pact

The Barcelona Employment Pact is a partnership agreement between the City Council of Barcelona, Commissions Obreres (trade union) of Barcelonès, the UGT (trade union) of Catalonia, Foment del Treball (Department for the Promotion of Work), PIMEC (the organisation for promoting SMEs) and the government of Catalonia. The pact defines and agrees on the framework and priorities for developing active employment and local development policies in the capital of Catalonia. It constitutes a long history of social co-ordination in the city of Barcelona as manifested in previous agreements for employment of Barcelona, which were signed in 1997, 2001 and 2003.

The aim of the agreement is to promote a quality and inclusive labour market, with a high level of productivity, one that generates professional opportunities for everyone. The agreement is committed to the economic growth of the city of Barcelona that incorporates more added value and innovation and that allows the attainment of high levels of competitiveness, welfare and social and territorial cohesion. Effectiveness of the strategy relies on the commitment and inclusiveness of the partnership.

However, it is not only about governmental and private sector dialogue; there is a need to incorporate citizens’ participation and involve leading local stakeholders in the preparation of the local policy, thereby increasing the awareness of demographic change within the local community to assist in the adoption of more realistic provisions/measures, especially in relation to regeneration strategies for local areas. Governance needs to be strengthened by establishing rich communication, networking or partnerships to encourage leadership; involvement by all stakeholders (public, private and community sectors); and provision of funds/resources.

**Developing new local workforce ecologies: Entrepreneurship, SMEs and workforce flexibility**

Within an ageing society, there will be opportunities for the older population to become more involved in the local labour markets. According to the European Union and OECD (2012), “few older people are involved in entrepreneurship, particularly women, and their enterprises tend to be less growth oriented than firms of younger entrepreneurs. [However] … there is a growing population of healthy older people with the skills, financial resources and time available to contribute to economic activity through extending their working lives, including through entrepreneurship”. According to a 2009 Eurobarometer Survey on entrepreneurship, 68.2% of prime aged (20-49 years) persons never thought about starting a business, while this figure jumped to 86.2% of older persons (50-64 years). While 14.6% of prime aged persons were thinking about starting a business, this dropped significantly to only 3.6% of older persons. The percent of people involved in early start-up activities is 17.3% for prime aged persons and 10.3% for older persons. Therefore, “… the older an individual gets, the less likely they are to take action on their entrepreneurial intention because they have less time left to enjoy the benefits that the business generates. This suggests that the bulk of those seriously considering starting a business has already taken action and that policy should focus on increasing interest and awareness about entrepreneurship in the third-age before people get there” (OECD, 2011b).

As a result, there is a need to promote entrepreneurship and workplace flexibility by designing strategies for new work ecologies incubators, entrepreneurship education, skills development in SMEs and the development of senior entrepreneurs (Box 3.12). Local development needs to focus on attracting youth and encouraging entrepreneurs to settle within declining areas through a systematic process of incentives and networking strategies aimed at reducing unemployment and more active implementation of revitalisation programmes.

### Box 3.12. Senior entrepreneurship

*Population and labour force ageing in Europe is impacting entrepreneurship. The promotion of entrepreneurship among seniors is a prospective policy option to prolong the working lives of older people, reduce older-age unemployment and enhance the social inclusion of older individuals. The policy focus should be on the factors that influence an older person’s decision to enter self-employment.*

**Promote the benefits of entrepreneurship.** The Grundtvig project launched by the EU in 2000[1] supports several initiatives on active learning by adults, including “Superact”, which is a project funded by the European Regional Fund INTERREG and features personal stories about older entrepreneurs with disadvantaged backgrounds in order to promote entrepreneurship to other older entrepreneurs with non-mainstream backgrounds.\(^1\)

**Improve entrepreneurship skills with training.** One example is the Business and Innovation Centre in the Slovak Republic. This private organisation serves older people and supports the creation of business start-ups with advice, education and start-up financing.\(^2\)

**Develop and support networks.** The United States has had an entrepreneurship scheme for decades. Starting as the Service Corps of Retired Executives, now simply known as SCORE, the scheme was launched to provide business advice to former military officers. The scheme has grown and currently serves the wider population. Certain groups are targeted, such as people over 50, but the services are not tailored for different seg-
Embracing new sources of growth: Opportunities and innovation in labour markets

Demographic change on the national, regional and local scales has important impacts on the labour market, including an ageing workforce, labour shortages and skills gaps. For example, China is one of the fastest ageing countries in the world. At the end of 2011, 9.1% of the population in the Chinese mainland was aged 65 or over. Since 2000, two major changes have occurred in population ageing: first, ageing has quickened; and second, the speed is higher than was expected. The proportion of population aged 65 or over is likely to exceed 15% in 2027, 20% in 2035 and 25% in 2050, consequently increasing the demand for the development of the elderly care industry (silver economy) (see Chapter 5).

Demographic transitions can also provide opportunities in the “silver economy” (the ecosystem of services for the older customer). For example, in China during the 2006-10 Plan period, the number of community service centres nationwide reached 175,000 and that of urban convenience outlets 693,000. Nearly half of the urban communities and 80% of towns and villages launched aged service facilities. There are 38,060 nursing homes nationwide, providing a total of 2,662 million beds for 2.109 million elderly people. China has issued a series of policies to promote the development of national nursing homes, including “Recommendations on Accelerating Socialisation of Social Welfare”, “Recommendations on Accelerating the Development of Old-Age Services”, “Assessment Standards on State-Level Nursing Homes”, and “Code of Conduct for Social Welfare Institutions”. The professional and standard development of elderly care services has been further advanced by the efforts of full-time social workers and volunteers (see Chapter 5).

The growing demand for labour-intensive personal services is not able to be managed at the national level by increasing the supply of adequate labour. This applies even more forcefully to regional markets: the relatively large increases in personal and health services in declining and ageing regions have to be met by adjustments in the local and regional labour market. Promoting workforce mobility, flexibility and cross-border collaboration will help support local businesses and economies and will stimulate key economic sectors and encourage entrepreneurship and business opportunities. Maintaining employment is critical to regeneration strategies, therefore it is essential to examine opportunities to strengthen and stimulate economic activity in the region, creating conditions for business opportunities supported by regional and municipal authorities that focus on emerging activities, especially in high-tech and knowledge-based activities.

Declining areas require local action, such as business/industry clusters, marketing, skills and employment programmes, and a focus on new growth areas such as the green and silver economies, to
boost the local economy. Places have value and social capital as well as a “right to survive” and investment in lifestyle infrastructure can contribute to increasing their resilience.

For dynamic and resilient labour markets, there is a need to develop new opportunities and innovation in regional/local labour markets, targeting new sources of growth such as cross-border programmes (see box 3.13), workforce mobility, clustering, new economic growth areas in health and silver work ecologies, entrepreneurship and business opportunities.

Box 3.13. Cross border labour mobility between Poland and Germany

Cross border mobility refers to the flow of workers of short and long-term commuting between borders of Poland and Germany which is referred to as trans-national migration of labour force. Crossborder mobility and emigration was greatly influenced by opening the borders after 1989 and Poland's accession to the European Union and abolition of border control in 2007, but complete liberalisation of the German labour market introduced on 1 May 2011 has not significantly changed the level and nature of cross-border mobility of Poles within the Polish-German borderland.

The main barrier for the intensification of cross-border mobility is the development of contacts and a deeper mutual understanding is the inability to speak the German language. Main obstacles on cross-border mobility relate to a lack of information on cross-border activities and job offers, social insurance and medical care, but also on the taxation systems. Cross-border collaboration among regional labour offices is limited and hampered by the lack of coordinated system solutions and the language barrier. Initiatives such as EURES partnership assist in overcoming these obstacles.

EURES partnership Odra-Oder between Poland and Germany

The partnership operates, inter alia, in the West Pomerania Region in Poland and is co-ordinated by the Labour Office in Szczecin, and includes participation by the Labour Offices in Swinoujscie, Police and Gryfino. On the German side, it is co-ordinated by Neubrandenburg Labour Agency and encompasses also Pasewalk and Stralsund Labour Agencies. The main services of the Odra-Oder Partnerships cover vocational and language training and courses, study visits, workshops, meetings regarding specific business branches, employment opportunities, meetings with Polish and German employers as well as initiation of job fairs in the cities of the West Pomerania Region. Such job fairs take place on bi-annual and annual bases and are organised in the different areas, such as Szczecin, Police and Świnoujście.


Innovative skill ecosystems for developing skills capital for local communities

The importance of education and skills and training development services within the regions cannot be under-estimated, which is highlighted by the fact that the OECD has developed a Skills Strategy Better Skills, Better Jobs, Better Lives: A Strategic Approach to Skills Policies (OECD, 2012b) introducing three policy levers: i) developing relevant skills: encourage and enable people to learn throughout their lives, enable skilled people to enter their territory, and establish cross-border skills policies; ii) activating skill supply: encourage inactive people to participate in the labour market and retain skilled people (discourage early retirement and staunch brain drain); iii) putting skills to effective use: assist individuals to make the best use of their skills and increase the demand for (high-level) skills.

In activating the skill supply it is important to target specific groups. The European Commission’s (2012) report highlighted: youth, older workers and migrants. Continued development and improvement in education and skills and training development services, is required to ensure a quality market supply of
labour, and the longevity of a professionally active population. Local skills ecosystems (Box 3.14) are imperative for increasing the human resource skills capital of regional and local communities.

Box 3.14. Skills ecosystems

The concept of skills ecosystems directs attention to the interdependency of multiple participants and policies in creating and sustaining the local conditions under which appropriate skills can be developed and deployed in particular regions. These ecosystems involve regional and industry-specific networks that bring together public and private training providers (colleges, universities, etc.), employers, industry representatives, unions, labour market and training intermediaries (temporary work agencies and group training companies), local and regional government agencies, and community representatives, in order to develop skill strategies and deliver training.


There are two key policy actions to create innovative skills ecosystems for the development of skill capital for local communities:

1. creating a lifelong learning culture: youth, adult and elderly skills development
2. connecting education/skills institutions with local labour markets: skills capital and innovation for local communities.

Creating a lifelong learning culture: Youth, adult and elderly skills development

The dashboard’s skills and education component revealed concerns in both tertiary attainment and adult participation in education, specifically in Poland, where in 2010 performance for both indicators ranged from very poor to critical and in the Netherlands’ case study regions there was not any significant improvement between 2000 and 2010. It is the investment (of both time and money) in adult education and training that is essential for meeting the changing labour force skills demands, therefore the local communities need to be able to adapt (OECD, 2012a). “Lifelong learning has been a defining goal for education and training policies for many years, emphasising the need for organised learning to take place over the whole lifespan and across the different main spheres that make up our lives ("life-wide")” (OECD, 2012c: 72). Fostering lifelong learning will stimulate competitiveness because economies now depend on value that is added from the entire workforce. Regional firms need to invest in and improve their learning culture, with flexible and tailor-made training and skills development programmes, not only for new employees, but also for the older workforce. To increase entrepreneurship or self-employment, educational programmes and business coaching should be promoted wherein the skills of older people are transformed into new opportunities.
Box 3.15. Lifelong learning as a response to demographic change

Genial: Generations at the workplace (Austria)

Demographic change will require enterprises to take more social responsibility and to access the resources of older employees to stay in the market; it will require employees to invest in their abilities, in their competencies and in their health. The Genial project of the provincial government supports these needs by assisting employees to develop their work-life balance in order to maintain their health, but also tries to elicit more individual responsibility for lifelong learning through to an advanced age, to stay open-minded about new technologies and to achieve a different attitude towards ageing.

Genial is based on three pillars:

- public relations and awareness raising
- specific projects realised in companies
- network building to exchange experiences and develop new measures and instruments to support the process.

The project also enables enterprises to better understand and deal with the human capital they can generate while enhancing the work experiences of older employees. The portfolio of activities is comprised of specific ageing analyses, work ability indices, specific support for putting concrete activities in place and more (www.genial.or.at).

Within the framework of the project, the “Qualification Association Genial” was founded, offering qualifications in health and work-ability issues, seminars for managers (e.g. on modern, more motivationally oriented leadership), and content-related issues. Currently, the Qualification Association Genial has 7 member companies and delivered 20 measures to approximately 230 people from March to July 2012.

Intelligent personnel management for logistics (IPL)

The pilot project IPL, funded by the Ministry of Labour, Social Integration and Welfare in North Rhine-Westphalia (Germany) and the European Social Fund, focuses on improving human resource management. Approaches to implementing lifelong learning as a component of demographically sensitive human resources work were generated from the results of the IPL project:

- Promoting vocational education and training:
  - additional training for people with immigrant backgrounds
  - part-time training
  - dual higher education study programmes in logistics.

- Further qualification of older workers in warehouse management and professional driving.

- Mixed-aged teams, designed to retain the knowledge and experience of older workers within companies, to foster inter-generational learning and to prevent the development of age-specific stigmas among employees.

- On-the-job training.

- Job rotation schemes and mixed work.

- Employee discussions on specific topics.

Note: 1. Qualification associations are instruments of active labour market policy whereby one or more large companies together with a number of smaller companies within a region engage in common qualification measures for their staff. Often companies within the same field and geographical area have the same needs regarding qualification, but it is too complicated and expensive for single organisations to go alone. Qualifications associations are supported by the AMS and the ESF, and receive higher funding if they offer measures for older
Connecting education/skills institutions with local labour markets: Skills capital and innovation for local communities

Regional labour markets require a skilled workforce. A decrease in the potential labour force does not automatically result in lower unemployment, but simply a greater mismatch between labour supply and demand. Labour shortages for any particular sector are not only the result of demographic changes but also the educational and career choices made by young people. Education should be aimed at encouraging student participation and linkages within the regional economy. There is a need to stimulate businesses and knowledge institutes to develop joint educational programmes, so that the competencies of the available labour force better match current and future labour requirements. Development of widely available, valid and reliable information and career counselling to guide occupational choices is also needed, such as the Entrepreneurship Summer School. To enable this free flow of information, there is a need for better cooperation between employers, educational institutes, trade unions and local authorities. Universities should adjust their learning programmes to meet the regional needs of the economy, increase international student attendance and encourage a family-friendly environment. Sweden’s Pajala and Kiruna municipalities collaborate on planning education that is strategically important to business development and to municipal obligations, in order to be able to meet the demand for labour. They operate training programmes in collaboration with other municipalities in the north of Sweden, primarily programmes at academic levels. Collaboration between the municipalities makes it easier to achieve the requisite educational outcomes and facilitates recruitment of suitable education co-ordinators in the education system.

In Trento (Italy), the AWARE (Ageing Workers Awareness to Recuperate Employability) Project, developed within the ESF framework between 2004 and 2007, aimed “to increase the employability and career prospects of the ageing population (those over 45 years of age), increasing their access to and participation in opportunities for learning and training, as well as increasing the awareness of their competences” (AWARE, 2007: 102). In order to achieve this goal, the project promoted the creation of partnerships, including universities, research centres, employment centres and two municipalities, among which the promotional role was played by the Department of Social Affairs and Employment – European Social Fund Office of the Autonomous Province of Trento.

There is need for a sustained approach to promote targeted and better connections between education and skills development and regional labour markets (local skills ecosystem) for job preparation and creation and re-orient Vocational Education and Training organisations to new skills ecologies.

Box 3.16. Connecting education and the local labour market

OECD Skills Strategy: Good practice in designing local skills strategies

OECD analysis shows that the most effective local skills strategies integrate human resource and training policies into wider economic development strategies, so that the focus is not only on how skills can be developed, but on how they can be deployed. Designing such an approach means looking beyond immediate skills shortages and understanding how investment in human resources can help capitalise on local comparative advantage and local employment sectors, and capture new opportunities from global and national trends. It also means looking at how the public sector can help support existing skills “ecosystems”, self-sustaining concentrations of workforce skills and knowledge in an industry or a region, through publicly funded training and knowledge transfer. Such strategies involve not only education and training institutions but a wider range of stakeholders, including firms, employer associations, economic development agencies, employment agencies, trade unions and non-profit
organisations that can work together to develop skills and training ecosystems (OECD, 2013b). Competent brokers or facilitators who are capable of working across the private and public sectors are also of key importance.

North Rhine-Westphalia, Germany

In North Rhine-Westphalia (Germany), support is provided for education and training aimed at enhancing human capital, which is seen as being fundamental to broad-based development, particularly in the context of demographic decline and workforce ageing. North Rhine-Westphalia’s sub-regions are developing plans aimed at providing broad support for education and training that extend from pre-school to university. The “Gemeinschaftsaufgabe zur Verbesserung der regionalen Wirtschaftsstruktur” (GA) (Joint task for the Improvement of Regional Economic Structure) is used to fund technical equipment in vocational training schools and training institutes. Land ministries are working together to co-ordinate or reorient existing funding streams towards common goals.

Zorgacademie Limburg

The Zorgacademie Limburg is a collaborative effort of schools, employers and municipalities in the province of Limburg. The three parties, supported by the province of Limburg, recognise that only through collaboration can a better quality of schooling and improved qualifications of workers in the care sector be achieved. It provides better schooling for starters, but also training for workers, as well as re-introductory courses for former workers and people switching jobs within the sector. It also supports a vacancy database for jobseekers. The initiative has been quite successful in matching demand and supply in the province. It won the prize for best practice in the DART (Declining Ageing and Regional Transformation) project, an initiative of European declining regions. The idea is applicable in other regions and sectors as well.


Summary of policy responses

Overall there is a need for a holistic development approach that integrates economic growth, health, education, environment and other needs can produce higher quality outputs than stand-alone projects operating on a narrow spectrum of deliverables. Strategic solutions must take into account the interplay of elements within a particular local area of development and encompass both local and regional capacity to attract and generate jobs within the national and economic context. To develop demographic transitional strategies, the quality of local population forecasting has to be improved. A common legal framework for small-scale surveys; a set of indicators for demographic change, which is simple to use and update; and co-ordination and co-operation to ensure consistency and synergy of data are needed. This would allow the development of a local urban perspective in planning policies and decision-making processes.

Four key policy responses areas were identified:

1. Place-base approach for resilient and inclusive communities requires four key approaches:
   
   - Implementing sustainable economic development for managing demographic transition requires regional systemic and sustainable strategies explored, developed, implemented and reviewed, focusing on the key aspects that make the region unique. There is a need to employ sustainability measures for declining areas by diversifying local utilisation of natural resources by incorporating other values in addition to the industrial ones, such as offering sustainable environments for housing and nature tourism businesses. Therefore local strategies of urban restructuring can prepare declining areas for the consequences of demographic change and urban shrinkage, and offer favourable conditions for new development opportunities. Specific policies
for regeneration require robust and flexible strategies that encourage creative solutions; a model of urban governance with a clear vision and operational objectives incorporating local, regional and inter-municipal co-operation; the integration of multiple public and private stakeholders.

- Creating family policies for friendly communities to encourage the fertility rate recovery that encourage better conditions for working parents such as flexible child care, financial assistance, social infrastructure and flexible forms of employment and workplaces.

- Investing in healthy lifestyles and active communities within ageing societies requires the need for new services in areas such as education, entertainment/leisure, information technology, financial services and transport, can encourage longer, healthier and more active lifestyles by creating family-friendly environments and active policies to improve living opportunities for the elderly. Early investment in healthy lifestyles and active communities, which incorporate new approaches to the development of infrastructure and the provision of services, are designed to reduce medical costs in later life. Such investments include: community-based agencies for health and social support; facilitating non-profit/voluntary efforts; and fostering local resource sharing.

- Supporting personal and social networks in fostering vitality of places. Social inclusion allows local populations to take an active part in the economic and social life of their community. Involving people will help build trust in the community and has the potential to influence individual decisions about whether to stay or leave the area. Social inclusion can also contribute to the community learning process by helping people understand how society works and how they can improve their own lives. Co-constructed, holistic policies and socially innovative practices and programmes are needed to provide services to the elderly, to families and the excluded. Policy makers must recognise the importance of the vibrant socio-cultural climate in urban areas in order to promote the quality of life and economic prosperity of the city. Public policy should not only focus on places or industries, but on people as well, creating opportunities for people to exercise their creativity.

2. Inter-generational solidarity for ageing societies and local labour markets requires three key approaches:

- Promoting a new work continuum of longer employment and increased productivity. Encouraging companies to implement age management practices such as flexible working hours, opportunities for older workers to update their skills, and better health and/or safety programmes would encourage older workers to stay within the working environment. Encouraging inter-generational engagement and facilitating work after retirement are measures that should be considered.

- Implementing programmes for engagement and integration in the workplace. There is a need to identify and implement programmes to re-position workers (older and younger) who are un-(or under) employed, especially less-skilled workers, in a concerted effort to encourage their participation and integration into the workplace (job carving) and to connect older and younger workers in the workplace. Incentives for staying in work after age 60, as well as social security systems designed to promote working later in life, need to be developed, including creating new roles within companies for workers in their later life. Actions implemented in the workplace such as mentoring and companionship are two approaches that not only promote inter-generational skills development but also encourage professional relationships and remove the negative perceptions of older workers.
• Reforming workforce age management by changing workplace perceptions and designs. There is a need to focus attention on the removal of mental barriers and negative perceptions of age and ageing workers through information campaigns. At the same time, local campaigns are needed to identify and encourage enterprises (public and private) to assume responsibility for implementing age-sensitive workplace design, management and leadership, raise awareness of the benefits and challenges of active ageing to employers and encourage them to invest in their staff and stimulate age-friendly HR policies; organise initiatives to eradicate the negative perceptions of age; encourage guidance and counselling services that incorporate a life-cycle perspective that promotes employability and that is adapted to the needs and abilities of the ageing population.

3. Dynamic and responsive local labour markets that respond to demographic and economic transitions requires three key approaches:

• Creating policy dialogue for regional facilitation and networking. Encouraging horizontal integration and vertical alignment of policies is required for dynamic and responsive labour markets. This alignment can be achieved by promoting co-operative frameworks and regional co-ordinated approaches, such as territorial employment pacts. There is a need to incorporate citizens’ participation and involve leading local stakeholders in the preparation of the local policy, thereby increasing the awareness of demographic change within the local community to assist in the adoption of more realistic provisions/measures, especially in relation to regeneration strategies for local areas. Governance needs to be strengthened by establishing rich communication, networking or partnerships to encourage leadership; involvement by all stakeholders (public, private and community sectors); and provision of funds/resources.

• Developing new local workforce ecologies for entrepreneurship, SME and workforce flexibility. There is a need to promote entrepreneurship and workplace flexibility by designing strategies for new work ecologies incubators, entrepreneurship education, skills development in SMEs and the development of senior entrepreneurs. Local development needs to focus on attracting youth and encouraging entrepreneurs to settle within declining areas through a systematic process of incentives and networking strategies aimed at reducing unemployment and more active implementation of revitalisation programmes.

• Embracing new sources of growth such as opportunities and innovation in labour markets. Promoting workforce mobility, flexibility and cross-border collaboration will help support local businesses and economies and will stimulate key economic sectors and encourage entrepreneurship and business opportunities. Maintaining employment is critical to regeneration strategies, therefore it is essential to examine opportunities to strengthen and stimulate economic activity in the region, creating conditions for business opportunities supported by regional and municipal authorities that focus on emerging activities, especially in high-tech and knowledge-based activities. Declining areas require local action, such as business/industry clusters, marketing, skills and employment programmes, and a focus on new growth areas such as the green and silver economies, to boost the local economy. Places have value and social capital as well as a “right to survive” and investment in lifestyle infrastructure can contribute to increasing their resilience. For dynamic and resilient labour markets, there is a need to develop new opportunities and innovation in regional/local labour markets, targeting new sources of growth such as cross-border programmes, workforce mobility, clustering, new economic growth areas in health and silver work ecologies, entrepreneurship and business opportunities.

4. Innovative skills ecosystems for developing skill capital for local communities requires two key approaches:
• Creating a lifelong learning culture for the youth, adult and elderly skills development. Fostering lifelong learning will stimulate competitiveness because economies now depend on value that is added from the entire workforce. Regional firms need to invest in and improve their learning culture, with flexible and tailor-made training and skills development programmes, not only for new employees, but also for the older workforce. To increase entrepreneurship or self-employment, educational programmes and business coaching should be promoted wherein the skills of older people are transformed into new opportunities.

• Connecting education/skills institutions with local labour markets to increase skills capital and innovation for local communities. There is need for a sustained approach to promote targeted and better connections between education and skills development and regional labour markets (local skills ecosystem) for job preparation and creation and re-orient Vocational Education and Training organisations to new skills ecologies. Education should be aimed at encouraging student participation and linkages within the regional economy. There is a need to stimulate businesses and knowledge institutes to develop joint educational programmes, so that the competencies of the available labour force better match current and future labour requirements. Development of widely available, valid and reliable information and career counselling to guide occupational choices is also needed. To enable this free flow of information, there is a need for better cooperation between employers, educational institutes, trade unions and local authorities. Universities should adjust their learning programmes to meet the regional needs of the economy, increase international student attendance and encourage a family-friendly environment.

NOTES

i. A whole-of-government approach is defined as “one where a government actively uses formal and/or informal networks across the different agencies within that government to co-ordinate the design and implementation of the range of interventions that the government’s agencies will be making in order to increase the effectiveness of those interventions in achieving the desired objectives” (OECD, 2008).

ii. Sustainable development for local economic development underlines the need to adopt a long-term approach that considers economic, social and environmental issues at the same time. See Martinez-Fernandez et al. (2012).


iv See the OECD LEED Forum on Social Innovations: www.oecd.org/cfe/leed/socialinnovation.

v. Job carving is a term for customising job duties, such as creating specialist job roles therefore freeing up time of specialist staff, or swapping job duties to make the most of individual skills.

vi. Clusters are geographic concentrations of interconnected companies, specialised suppliers, service providers, firms in related sectors and related institutions (e.g. universities, R&D institutions, trade associations, etc.) in fields that compete but also co-operate (Porter, 1998).

References


PART II – COUNTRY CASE STUDIES
CHAPTER 4:

REGIONAL APPROACHES TO DEMOGRAPHIC CHANGE IN POLAND

The Polish case study reveals the complexity of demographic challenges occurring within the regions, with each region experiencing different issues associated with its own socio-economic situation. The Malopolska and Pomorskie regions are experiencing population growth, ageing and low fertility, while Lodzkie is experiencing population decline, ageing and low fertility, together with youth and young adult health concerns. These differences in demographic transitions require a territorial approach so that regional and local perspectives on policy preparation, development and implementation are co-ordinated with national policy efforts and key European Social Fund (ESF) programmes.
Demographic changes in Poland

The analysis in Poland was conducted in the regions of Pomorskie, Łódzkie and Małopolska (Figure 4.1) with the aim of providing guidance on “how to prevent” as well as “how to deal with” an ageing society. The demographic situation in Poland is changing significantly, with each of the study regions facing different and unique challenges in their development, but some common challenges as well:

- low fertility rates
- population ageing, changes to population structure by age, and life expectancy
- internal and external migration
- population growth/decline.

Figure 4.1. Map of the Polish study regions

Note: This map is for illustrative purposes and is without prejudice to the status of or sovereignty over any territory covered by this map.

Fertility

The fertility rate has remained below the replacement rate level for the last two decades, which is a common trend within the three study regions and at the national level, with distinctions across urban and rural areas and in the capitals of the regions analysed (Figure 4.2).

Figure 4.2. Polish total fertility rates compared with EU27 and the OECD, (1998-2010)


However, some regions are in a better position than the others. Pomorskie and Małopolskie are in a better situation than Łódzkie, although their fertility rates remain at a low level. This is because the territories of these two regions contain areas that, within the last decade, have been characterised as having the highest fertility rates on the national scale, i.e. in the Małopolskie region: Nowy Sącz, Limanowa, Sucha Beskidzka, Nowy Targ, and Myślenice and Kaszuby in the Pomorskie region. Pomorskie is experiencing a high rural fertility rate in the population of the northern part of the region – overall fertility rates of the rural populations of Wejherowo and Kartuzy powiats (districts) are close to the replacement level.

It should be emphasised that the problem of low fertility rates is especially serious in the larger cities. All three capital agglomerations of the study regions are characterised by a particularly low fertility rate over a long period of time (from at least the 1960s), and their populations reproduce at below the regional average. As indicated in OECD (2011), the challenge of low fertility tendencies needs a long-term and stable family policy supporting parenting decisions by creating the conditions to ensure that more children are born, and improving the quality of life and reducing poverty among families. Successful family policy requires state-level legislative initiatives to support regional and local efforts to reverse these negative trends.

Population ageing and life expectancy

Population ageing represents common challenges due to the increase in the demand for expensive public services aimed at the elderly and to the decrease in economic vitality (human resources, incomes, individual spending and taxes). The challenges of an ageing population are also directly linked to decreasing fertility. The second main component of the process of population ageing is increasing
longevity. The proportion of senior citizens in the study areas has been growing steadily and this trend will continue in the future (Figure 4.3).

**Figure 4.3. Proportion of citizens aged 65 and over in Poland, EU27 and OECD (1991-2035)**

Population ageing trends vary slightly between the three regions under investigation: the Małopolska region is following a similar trend to the national one; the Łódzkie region has a larger percentage of older persons compared to the national level; and the Pomorskie region is characterised by a lower percentage of elderly than the national trend (Figure 4.4). This indicates that population ageing is currently the biggest problem in the Łódzkie region. Ageing in Łódzkie is a consequence of long-term low fertility and migration outflow (the first period of outflow was observed in the early 1970s in the north-western part of the region, and was related to migration to industrial cities (Konin, Płock and Włocławek). Distortions in the age structure of the population of that time affect today’s reproduction rates and accelerate population ageing, leaving the city in a situation of “shrinkage” (Martinez-Fernandez et al., 2012). Nevertheless, all the study regions are experiencing a significant rise in the ageing population and need to implement measures focused on addressing needs that are caused by the current and future population ageing process, particularly in terms of the widespread and fast increasing number and share of senior citizens. Regional governments should focus on extending existing services for the elderly (medical care, nursing, daily care centres, senior centres, social assistance) and on creating new services adjusted to emerging demands (“edutainment”, tourism, assisted living arrangements).
Figure 4.4. People aged 65 and over in Polish regions (2009)

Notes: The legend refers to percent of population 65 years old and over. This map is for illustrative purposes and is without prejudice to the status of or sovereignty over any territory covered by this map.


Generally, population ageing is the fastest in the south-west and northern parts of Poland (Figure 4.5), mostly due to negative migration balance. But different factors are dominant in specific regions. Although Pomorskie is ageing faster than Łódzkie, its population is relatively stable due to high and stable fertility rates and a relatively positive migration balance. Of significance is the fact that even though Łódzkie currently has the highest percentage of older population, the other study regions have a high pace of ageing, which is very significant for those regions not only now, but also in the future. Their self-governments will be “hit” by the cohort effect if they do not, in an extremely short period, reshape their strategies and politics to include an increased demand for senior-focused public services as a basic foundation of their activities.
Within the past two decades, the death rates in the study regions show some slight differences. In the case of Małopolska, the death rate is significantly lower than the national average, which translates into a longer life expectancy in relation to the average values recorded for Poland. Moreover, the difference between the national average and the value recorded for Małopolska is more or less constant over time. In the case of Pomorskie, initially the death rate for both genders was slightly higher than the national average. However, the situation has been improving over time, and currently the death rate remains at a significantly lower level (males) or slightly lower level (females).

However, in Łódzkie, a slightly higher death rate was recorded in the early 1990s in comparison to the national average, which was then replaced by a significantly higher death rate, which mainly resulted from a high death rate among people in their prime age (i.e. aged 20-50 years old). As a result, Łódzkie is characterised by an approximately eight to ten year delay in life expectancy in relation to the national average, i.e. today’s life expectancy in the Łódzkie region was attained ca. eight to ten years ago at the national level. This position is mainly the result of its capital city being particularly neglected in terms of health and safety behaviours. The relatively worse-off position of the city in terms of unemployment, lower incomes (wages, salaries and pensions), and lower education levels compared to other regions (especially within the older population, who lack the skills needed in today’s society) are also all social reasons for this neglect. People that are not educated about a healthy lifestyle and who lack financial resources are more prone to leave the responsibility for their health to “specialists” and deny the importance of lifestyle for good health. The best counteractions to this are health promotion campaigns and actions aimed at providing affordable health screening. These activities could be co-financed at least partially by the European Social Funds (ESF) and public health resources.
Population ageing is strongly associated with two other demographic processes: “feminisation” and “singularisation” of elderly population groups. Feminisation (decrease in the sex ratio due to higher male mortality rates) and singularisation (living alone and forming a one-person household) are intertwined. Most senior one-person households are formed by widows, having on average lower incomes, living in spacious apartments and as a consequence often affected by energy poverty, with very limited access to everyday support from their families and acquaintances. The phenomena creates new social environments and at the same time, new challenges to regional and local policies to deal with this specific social structure. Local and regional authorities must be aware of the new social structure, which will be a consequence of the ageing process. It should be adequately reflected in regional development strategies aimed at services enabling the so-called “ageing in place”, estate exchange agencies. The elderly are very often concentrated in smaller areas, which were developed a few decades ago, and self-governments should be aware of the “pockets of the old age” in cities and towns.

Migration

There are large differences between the regions concerning migration-related attractiveness, which may be evaluated in terms of the subjective assessment performed by potential migrants, of the living standards in the study regions (Table 4.1). In the case of internal migration, the Łódzkie region was assessed as the place of residence with the lowest attractiveness level, which was demonstrated by the continuous negative migration balance. One of the reasons for this is that Łódzkie is in close proximity to Warsaw, as a high number of emigrants from the Łódzkie region move to Mazowsze and its capital city. A solution to this problem could be creating a place to live for people with relatively high incomes (high enough to rent/buy an apartment in Łódź, but not rich enough to live in Warsaw), who have no requirement to commute daily, such as some public servants (like teachers), but also journalists and other representatives of the so-called learned professions. The two other regions were characterised by a strong force of attraction of potential settlers due to their relatively good situation in terms of labour markets and lack of a “competitor” at the regional level in their closeness.

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</table>

Note: x: Data is not applicable because the category does not apply.


In the case of external migrations, a growing settlement-related attractiveness of Polish regions has been observed, and among these regions, it is mainly Małopolska and Kraków that have become magnets for attracting more immigrants in comparison to the volume of emigration recorded in these regions. This is mainly because there are a lot of job/work opportunities in Kraków in various branches and sectors (including dynamic developing IT, new technologies and outsourcing businesses), which is confirmed by it having one of the lowest unemployment rates among the cities within the analysed regions. In 2011, the unemployment rate in Kraków was 4.8, in Gdańsk 5.4, in Gdynia 5.5, Sopot 4.0, while in Łódź it was 11. At the same time, in Poland this indicator equalled 12.5 (Central Statistical Office database, 2012). It seems that due to their improving living standards and job prospects, some regions of Poland could be characterised as having a positive external migration balance. Therefore, the regions should start developing strategies to attract immigrants and facilitate their settlement within their respective territories. It seems that such a strategy is crucial for the development of the Łódzkie region due to its less favourable demographic situation.
Effective systems of national state law are fundamental to utilise the profits from the positive external migration balance in the regional labour markets. Yet, the regions should also be prepared to confront new social problems caused by the influx of people of different nationalities. It very soon might be a daily issue of regional policy. Due to the population ageing in the next ten years, the workforce will diminish and a shortage could be observed in a “low skills” sub-segment. Immigration could be seen as a solution but it is followed by many issues related to methods of social integration and social participation of the immigrants in Poland. Public institutions should be prepared to provide immigrants with independent social services to improve the linguistic competencies of the immigrants and their offspring.

**Population size changes**

The unfavourable situation in Łódzkie is most clearly demonstrated by changes in the number of inhabitants residing in the study regions within the past two decades, and related forecasts performed by Statistics Poland (Figure 4.6 and Table 4.2).

**Figure 4.6.  Population growth/decline in Poland, EU27 and the OECD**

![Population growth/decline in Poland, EU27 and the OECD](image)

Table 4.2. Population size of the study regions (2000-35)

<table>
<thead>
<tr>
<th>Region</th>
<th>2000</th>
<th>2005</th>
<th>2010</th>
<th>2020</th>
<th>2035</th>
</tr>
</thead>
<tbody>
<tr>
<td>Łódzkie</td>
<td>2 627.8</td>
<td>2 577.5</td>
<td>2 541.8</td>
<td>2 419.2</td>
<td>2 188.0</td>
</tr>
<tr>
<td>Małopolskie</td>
<td>3 229.1</td>
<td>3 266.2</td>
<td>3 298.3</td>
<td>3 364.7</td>
<td>3 328.7</td>
</tr>
<tr>
<td>Pomorskie</td>
<td>2 172.3</td>
<td>2 199.0</td>
<td>2 230.1</td>
<td>2 285.1</td>
<td>2 262.8</td>
</tr>
<tr>
<td>Poland</td>
<td>38 254.0</td>
<td>38 157.1</td>
<td>38 167.3</td>
<td>37 829.9</td>
<td>35 993.1</td>
</tr>
</tbody>
</table>


While increases in population size for Małopolskie and Pomorskie can be observed, in Łódzkie, the population size continuously declined throughout the study period. Moreover, the changes predicted in the forecast period are envisaged to be of a similar nature. While Małopolskie and Pomorskie are characterised by a small increase in the population size, the Łódzkie region is predicted to be characterised by depopulation (Table 4).

In summary, in a country that is homogeneous in terms of its ethnic and cultural aspects such as Poland is, and in conditions where the demographic behaviours are becoming similar, the individual regions will experience various population-based issues.

The population ageing process, which is a key issue of the analysis, is of great importance and requires that new growth drivers be “invented”, in the areas of the silver and white economies. Some of these issues will differ – health conditions measured against indirect life expectancy significantly differentiates the study regions, just like other non-demographic factors influence their settlement-related attractiveness. Considering the present statistics, the Łódzkie region is in the worst demographic situation: apart from the low fertility rate and high death rate, it has to cope with the “magnetic” attraction of Warsaw. This close proximity “sucks out” the young adults from the region (thus lowering the reproductive capacity of the region), as well as reducing the attractiveness of the Łódzkie region to immigrants from other countries. In the mid-1990s, there was a proposal to create a “duopolis” type functional connection between Warsaw and Łódz (where Łódz would have an auxiliary function); however, the proposal was not fulfilled and is still not in operation. A railway reconstruction and a new highway connecting Warsaw and Łódz may change the situation and transform this proximity into an opportunity, however, this transformation will probably relate to the creation of new and cheaper “bedroom” and recreation areas than to equiponderant economic co-operation.

The processes of population ageing are both the result of and the incentive for socio-economic change occurring in the country. Therefore, challenges associated with the discussed demographic trends require systemic, sustainable policy, simultaneously conducted at all administrative levels of governance: state, regional and local. Regions should take advantage of their regional and local resources in light of their demographic transition.

Regional resources for demographic transitions

There are several aspects to regional resources, including location and transport and human capital. Each region differs in its availability and accessibility to regional resources to manage its territorial demographic transitions.
**Location and transport connections**

The advantages and disadvantages of location between the three study regions are quite different. Transport accessibility is a necessary condition in order to increase the attractiveness of a region to migrants. The Łódzkie and Małopolskie regions are ideally located, with highways and motorways connecting to the rest of Europe. The worst transport accessibility is the Pomorskie region, having only an under-construction part of the A2 highway which will allow connection between Gdańsk and Łódź and in the future join the system of European highways (Generalna Dyrekcja Dróg Krajowych i Autostrad, 2012; Figure 4.7). The transport accessibility from Gdańsk to the capital of the country, Warsaw, is the worst amongst all three regions, as the distance is about 340 kilometres (about 5 hours by car). Better access to Warsaw is available from Kraków (290 kilometres or about 4 hours by car) and from Łódź, which is the nearest to Warsaw and has the best car connection (140 kilometres or about 2.5 hours by national fast road and about 1 hour by the recently opened highway A2).

![Transport infrastructure in Poland (2012)](image)

*Figure 4.7. Transport infrastructure in Poland (2012)*

Note: This map is for illustrative purposes and is without prejudice to the status of or sovereignty over any territory covered by this map.


The railway from Gdańsk-Warsaw is currently being modernised, with the travel by train to the centre of Poland even worse than travelling by car, taking approximately six to seven hours. It is much quicker to reach Warsaw from Kraków, although the railway tracks were built a long time ago, but some trains only take 2.5 hours. To travel by train from Łódź to Warsaw takes 1.5 hours (Polish State Railway in 2012).

Much faster than the road infrastructure is the air infrastructure. The important international airports are located in Warsaw, Kraków and Gdańsk. Due to Łódź’s location so close to Warsaw (130 kilometres), the airport in Łódź covers only 2% of the total passengers (Analiza rynku transport, 2011). Besides air transport, in the case of the Pomorskie region, the important and additional means of transport is via the
Baltic Sea. Two of the three main Polish ports are located in the region: in Gdańsk and in Gdynia. In Gdańsk, the deepwater container terminal is more often used to ship products and goods, while Gdynia focuses on (and is further developing) passenger transport, from which the ships to Sweden quite often operate.

Transport accessibility is essential to improving the residential attractiveness of the regions. It also increases the availability of the regional labour market. As a result, transport accessibility stimulates the inflow of migration, which may compensate for the low fertility rate of the regions. It is important to emphasise the transport accessibility of the study regions – that increases and promotes the current inter-linkages affecting the improvement of their strategies. For example, Pomorskie has an airport and port but lacks road transport accessibility, with rail currently being modernised. Łódzkie benefits from road access (highway/motorway) from the capital and connections with Europe. Małopolskie benefits from air and road transport linkages and, to an extent, rail, particularly to Warsaw.

*Human capital potential and skills for developing the “white economy”*

The three regions differ in their potential for human capital, which is crucial for the future of the voivodships (provinces). There was a significant increase in the share of persons with a tertiary education in the total population aged 15-64 from 1995 to 2011, which could be treated as being an indicator of a significant rise in the level of skills of the workforce. Regionally, the same trend has been experienced. In 2000, Małopolska led the way, with more than 10% of persons aged 15-64 having a tertiary education. In 2011, the two regions (Małopolska and Pomorskie) were above the average for tertiary education. In the whole country, the share of highly educated persons increased to more than 20% (Figure 4.8). The trend is not so clear – the share is increasing very rapidly among the young cohorts (according to the 2011 Census data, 45% of people aged 25-29 have a tertiary education), but at the same time there is an emerging question about the quality of the education, expressed in terms of adjustment to current and future employers’ expectations. Tertiary education is not necessarily fitted to job position offers, *and a very important task is to close the gap between “tertiary production” and the labour market.*

*Figure 4.8. Share of people aged 15-64 with a tertiary education in the Polish study regions (1995-2011)*


The number of higher education units within the study regions has also increased, although at different rates:
• Małopolska: in 2000 there were 23 institutions, by 2010 the number had increased to 33
• Łódzkie: in 2000 there were 19 institutions, by 2010 the number had increased to 32 (and in 2011 there were 30)
• Pomorskie: in 2000 there were 17 institutions, by 2010 the number had increased to 28.

The changing age structure of Poland reflects a decrease in the numbers of youth and as a result there are less students to undertake study. Małopolska managed to increase the number of students per 10 000 inhabitants up to 2010 and is still in a better situation compared to the other two regions and to Poland in general. The Jagiellonian University (JU) is at the top of the list of the best universities in the country. JU, but also other universities in the city, like AGH University of Science and Technology, also have international recognition. This makes Kraków a strong academic centre. The Pomorskie region is the strongest educational centre in Northern Poland. In 2010, there were over 107 000 students in the region. Most of them studied at the TriCity agglomeration, whose potential is created predominantly by the state universities. Despite the demographic change, the number of students by 2010 continued to grow. Over a 12% increase was observed during the last five years (Local Data Bank, CSOii).

The Łódź trajectory is different; from 2002-08 the number of students increased, but since 2008 there has been a dramatic decrease in numbers, dropping below the national average in 2010 (Figure 4.9). Łódzkie competes for new students not only with Warsaw, but with Wroclaw and Poznan. The catchment area (i.e. the region from which students come) is declining, young people from the eastern part of the Łódzkie region prefer to study in Warsaw; those from the southern part in Wroclaw; and those from the western part in Poznań. The other cities offer – according to the students’ opinion – better opportunities to start a professional career (due to lower unemployment rates and higher incomes) and to be able to reconcile studying and working. The decrease in student numbers poses important challenges ahead for skills development in the region, at a time when highly skilled human resources are needed to increase the competitiveness of the local firms. The decrease in student numbers shows the adjustment in relation to employment and attractiveness of the SMEs sector. There is a need to develop Łódź as a centre for student education, by creating favourable conditions both aesthetically and economically.

Figure 4.9. Number of students per 10 000 inhabitants in Poland and the study regions (2002-11)
The number of public higher vocational schools has also been increasing (there were changes in classification of higher vocational schools/other higher schools). In Poland in 2007, there were 234 such schools, and in 2011 there were 254, while in the regions:

- Łódzkie: in 2007 there were 12, by 2011 the number had increased to 14
- Małopolska: in 2007 there were 15 and it had not changed in 2011
- Pomorskie: in 2007 there were 16, by 2011 the number had increased to 17.

The level of development of education services in the regions directly affects the quality of human capital. This, in turn, determines the quality of the labour market and has an impact on the dynamics of a region’s economic development and a further impact on its living standards. The high share of people with a higher education in a region has an even more positive aspect because of the ageing processes. People with higher educations tend to stay professionally active for longer. They are mentally well prepared for long-lasting activity in the labour market. The importance of education services within the regions cannot be underestimated. The continued development and improvement in these services is required to ensure quality market supply of labour, and the longevity of a professionally active population.

**Skills for the “white” economy**

“White economy” refers to those products, services and activities related to healthcare and care including the dependent, disabled and the elderly. Regional comparisons of the “white” sector with reference to the situation in Poland are much more challenging, as there are no direct or composite indicators giving precise information about this sector’s importance in the economy. Some indicators describe the differences. The number of physicians per 100 000 inhabitants in Łódzkie is much better than in other regions and in Poland generally. In Pomorskie, statistics reveal the decline of physicians per 100 000 inhabitants in the last years (Figure 4.10). The significant drop in their number is observed from 2004, after joining the EU. It may be explained by the external emigration of white sector professionals; however, this would need further research.
The very positive trend of constant growth in the number of physiotherapists per 100 000 inhabitants is observed in all regions as well as in Poland (Figure 4.10). The level of development of this type of service is especially significant in the Małopolskie region, where the number of physiotherapists is above the national average, which is related to the number of available schools and universities in which it is possible to obtain the corresponding education, and the relatively large number of rehabilitation and spa/health resorts in which they can work in the region.

For nursing professionals, the trend is not clearly as positive as the indicator shows increases as well decreases in the number of nursing professionals per 100 000 inhabitants (Figure 4.10). In this aspect of white services development, Małopolska is in the best situation, with numbers above the national average. Concerning the ageing population, the access to nursing staff is of crucial importance. It may be considered to be one of the key indicators for the quality of life for elderly people. The importance of continued
resources and support to the white sector is of utmost importance considering the ageing of the population in the three study regions.

**Long-term care**

In the context of an ageing population, further analysis of the possibilities and barriers to long-term care is part of the “white” sector. There is limited data on long-term care, not only at a regional level, but also at a national level (e.g. no data are available on the number of informal older carers in Poland and the regions). However, demographic changes currently do not have an impact on improving the infrastructure of long-term care sectors. This is due to changes in the law regarding social assistance (2004), but also due to the obligatory standardisation of social assistance houses (*Domy Pomocy Społecznej*), called nursing or residential care facilities, which for some it is not possible to access. Data presented here are from Eurostat sources. However, in some regions, information about the beds available in the region is officially presented on a website, with costs and waiting lists. As an example, in Małopolska, as at 31 July 2012, there were 7,315 available beds in nursing and residential care facilities (for all people, including older persons), while 137 beds were free and 679 persons were still on waiting lists. The indicator of available beds in nursing and residential care facilities per 100,000 inhabitants show that Małopolska and Łódzkie are above the average, even though Łódzkie decreased the number of available beds in 2010 compared to 2003, while in Pomorskie this indicator was lower than the national average, but had increased from 2003. Many experts and scientists indicate an urgent need to prepare the long-term care system for the population ageing phenomena, not only in finding new ways of securing financing for elderly care services (Augustyn, 2010) through additional care insurance, but also to support family carers (Eurofamcare project), especially working ones (Stypińska and Perek-Białas, 2010).

The inconsistency in data of the healthcare sector can be found in various reports. For example, in the official report of Małopolska’s health department of the Voivodship Office responsible for the health sector, there were 13 (in total) geriatricians employed at the end of December 2010 and no nurses with geriatrician qualifications (see Protection of health care in the province of Małopolska in 2010-2011). However, the information differs as shown in Table 4.3, where data is available regarding geriatricians and geriatric beds, and centres of independent expertise (Dubiel and Klich-Rączka, 2011). According to Table 4.3, Małopolska is in a much better situation, both Łódzkie and Pomorskie; however, the leading region in Poland is Śląskie.

<table>
<thead>
<tr>
<th>Geriatricians</th>
<th>Małopolska</th>
<th>Łódzkie</th>
<th>Pomorskie</th>
<th>Śląskie</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>15</td>
<td>15</td>
<td>58</td>
<td></td>
</tr>
<tr>
<td>Geriatric centres</td>
<td>7</td>
<td>1</td>
<td>5</td>
<td>25</td>
</tr>
<tr>
<td>Geriatric beds</td>
<td>73</td>
<td>10</td>
<td>5</td>
<td>229</td>
</tr>
</tbody>
</table>


The new demographic trends, and particularly the issue of an ageing population, poses different sets of challenges for health services. From the available data, it seems that the Małopolskie region is already in the best position to face these new challenges. In particular, the Pomorskie region has to carefully consider the health sector’s needs in its development strategy plans.

**Social exclusion**

Poverty should be taken into account in the study of the overall socio-economic situation in the regions. This situation is definitely the worst for Łódzkie, followed by Małopolska, with a relatively better situation in Pomorskie, where the data is below the national average (Figure 4.11). In fact, Małopolska has fewer people experiencing severe material deprivation than the other regions. The problem is closely
related to: i) remuneration levels (especially to frequency of minimal wages); ii) unemployment levels (lack of income); iii) size of the agricultural industry (typically the incomes of people working in agriculture are much lower than the average income). These three factors affect poverty levels directly and indirectly (via a formula for pension calculations). The policy could try to relieve the situation via social transfers, but a long-term solution should be found in the labour market.

**Figure 4.11. People at risk of poverty or social exclusion compared with the severe material deprivation rate**

![Graph showing the percentage of population in Poland, Lódzkie, Malopolskie, and Pomorskie from 2005 to 2010.](image)


The analysis of persons who are supported by social assistance per 10 000 inhabitants shows that there is a decrease in numbers in Poland and the study regions (Table 4.4), but this is mostly due to changes in the regulation of social assistance, which limits access to social assistance. In 2004 there was a similar decrease as there was also a change in the social assistance laws. However, in Poland, as well as in the regions, similar trends could be observed in each year analysed. The change in this indicator between 2002 and 2011 for Poland shows about a 21% decrease; in Lódzkie, the change in the value of this indicator is only 12% in the same period; and it is similar for Małopolska and Pomorskie, which were
above the average at approximately 28% and 27% respectively. Małopolska previously experienced (in 2002) and still experiences (in 2011) the lowest number of beneficiaries of social assistance per 10,000 inhabitants.

Table 4.4. Persons of social assistance per 10,000 inhabitants

<table>
<thead>
<tr>
<th>Region</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poland</td>
<td>666.8</td>
<td>691.3</td>
<td>631.2</td>
<td>674.7</td>
<td>738.4</td>
<td>620.8</td>
<td>551.3</td>
<td>545.9</td>
<td>541.5</td>
<td>523.7</td>
</tr>
<tr>
<td>Łódzkie</td>
<td>605.4</td>
<td>656.2</td>
<td>585.7</td>
<td>654.3</td>
<td>734.8</td>
<td>632.6</td>
<td>545.4</td>
<td>539.5</td>
<td>544.8</td>
<td>530.4</td>
</tr>
<tr>
<td>Małopolskie</td>
<td>580.4</td>
<td>604</td>
<td>483.3</td>
<td>511.4</td>
<td>562.2</td>
<td>480.8</td>
<td>436.7</td>
<td>437.4</td>
<td>418.7</td>
<td></td>
</tr>
<tr>
<td>Pomorskie</td>
<td>763.9</td>
<td>796.5</td>
<td>696.6</td>
<td>728.4</td>
<td>733.3</td>
<td>675.6</td>
<td>585.3</td>
<td>580.7</td>
<td>569.6</td>
<td>561</td>
</tr>
</tbody>
</table>


Civil society

In the context of population ageing, civil society and its role have to be particularly taken into account, as civil society can fill the gap if public institutions are lacking. The data regarding the development of non-government organisations (NGOs) focused on tasks related to population ageing (children, older and inter-generational co-operatives) are not easily accessible and not necessarily accurate (as shown by the studies of Klon/Jawor or estimates prepared for the EY 2011 of Volunteerism). Based on data from the Central Statistical Office, there is an increased number of NGOs in Poland, and in all of the study regions (Table 4.5). It should be stressed that in these organisations, in addition to volunteers, there are options to be employed, as shown in Table 4.5.

Table 4.5. Number of active non-governmental organisations and persons employed in them

<table>
<thead>
<tr>
<th>Region</th>
<th>Number of NGOs</th>
<th>Number of employed persons</th>
<th>Number of NGOs</th>
<th>Number of employed persons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poland</td>
<td>70.9</td>
<td>70.8</td>
<td>75</td>
<td>85.4</td>
</tr>
<tr>
<td>Łódzkie</td>
<td>4.6</td>
<td>3.0</td>
<td>4.8</td>
<td>3.3</td>
</tr>
<tr>
<td>Małopolskie</td>
<td>6.6</td>
<td>7.2</td>
<td>6.8</td>
<td>8.1</td>
</tr>
<tr>
<td>Pomorskie</td>
<td>3.6</td>
<td>3.8</td>
<td>4.2</td>
<td>5.3</td>
</tr>
</tbody>
</table>


Regarding the development of civil society and the activity of NGOs in the regions, there are limited accessible quantitative studies that explain the determinants and factors relating to the higher or lower activity of citizens in NGOs for these regions, which could be compared as being better or worse. Recent studies do highlight initiatives for seniors in the three regions (Perek-Białas, 2013; Sagan, 2013; Szukalski, 2013). However, in Kraków there are no additional advisory groups at the city level that have a direct influence on what could be done for the older population (such as in Gdańsk where there is the Council for Seniors, with an active University of Third Age, and in Gdynia where there is the Centre for Senior Activity, which also tried to engage older persons in various activities).

In Łódź, the Senior’s Council was established in October 2011, and had its first session in July 2012. In recent years, due to public support from the European Social Fund (ESF), a substantial increase in the number of NGOs focused on pre-primary education was observed. Unfortunately, there are still only 72.2% of children aged 3-6 with access to pre-primary establishments (83.5% of children living in urban areas have access compared to 55.1% in rural areas), and an even smaller proportion were able to attend kindergartens (respectively: 53.8%, 73.2% and 24.6%). Particularly in rural areas, grandparents, predominantly grandmothers, substitute for those services that are lacking for families with young children. This is still the dominant form of inter-generational support, although some new initiatives are emerging.
However, discussion around the inter-generational solidarity at the regional level is focused primarily on initiatives aimed at education of the elderly (such as the Universities of the Third Age, or UTAs) and at leisure activities for older people.

In Małopolska, the NGOs are well-known and active not only at the regional level, but at the national level as well, as they fall within the structure of umbrella organisations of Forum 50+ and the AGE Platform Europe. Projects of Małopolska’s NGOs are treated as being good practices and are well known in Poland and abroad (as the Academy of Fullness of Life). The role of the S@S in engaging seniors via educational and cultural offers is internationally known and appreciated (Brussels Conference, 4 June 2012). The social sphere is the region’s resource, and constitutes its endogenous capital, whose capabilities should be considered in the development scenarios. The described nature of the region’s social capital helps to develop the attitudes and activities aimed at social inclusion and integration. The strong bonding of social relations and human capital resources create the conduit for the high social milieu of the NGOs’ activities. Regional policy should stimulate the development of NGOs focused on tasks related to population ageing. Their role in providing services devoted to the existential needs of older people may be crucial. The mobilisation of the NGO sector to combat social exclusion processes should be strengthened by the development and availability of information technology services. Considering the high level of households’ computer equipment and broadband Internet connection access, the development of e-administration and of e-governance generally may significantly help to avoid social exclusion stemming from low mobility caused by the age of the region’s inhabitants. In this sphere, the role of regional and local policy is pivotal. Therefore, promoting the importance of the role of NGOs in society, maintaining and, in some cases (as the population ages), increasing the support and importance of sharing knowledge between NGOs and other institutions dealing with seniors at the local level can boost community inclusion.

One of the most successful initiatives developed throughout the entire country are the UTAs. The number of these universities is expanding very rapidly: in 1989 there were only 9; by 2007 there were 125; in 2010 there were 248; and in March 2012 as many as 385 (in 2012, there were 32 in Małopolska, 28 in Łódzkie and 20 in Pomorskie). These numbers are evolving: in August 2012 there were 410 UTAs, including new one in Pomorskie (Łeba).

In addition to increasing the number of UTAs, the increase of the number of students as well as the education range of individual universities is observed. The dynamic of growth of Gdańsk University of the Third Age provides a good example of the intensity of the changes (Table 4.6).

<table>
<thead>
<tr>
<th>Academic year</th>
<th>Professors</th>
<th>Doctirs</th>
<th>M.Sc</th>
<th>Number of lectures</th>
<th>Classes – number of teaching hours</th>
<th>Number of students</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004/05</td>
<td>7</td>
<td>8</td>
<td>6</td>
<td>29</td>
<td>464</td>
<td>470</td>
</tr>
<tr>
<td>2005/06</td>
<td>11</td>
<td>10</td>
<td>10</td>
<td>27</td>
<td>945</td>
<td>735</td>
</tr>
<tr>
<td>2006/07</td>
<td>13</td>
<td>12</td>
<td>19</td>
<td>51</td>
<td>2378</td>
<td>770</td>
</tr>
<tr>
<td>2007/08</td>
<td>9</td>
<td>16</td>
<td>17</td>
<td>50</td>
<td>2525</td>
<td>800</td>
</tr>
<tr>
<td>2008/09</td>
<td>17</td>
<td>10</td>
<td>26</td>
<td>52</td>
<td>2878</td>
<td>1250</td>
</tr>
<tr>
<td>2009/10</td>
<td>15</td>
<td>13</td>
<td>33</td>
<td>75</td>
<td>3033</td>
<td>1300</td>
</tr>
</tbody>
</table>

The other successful university in Małopolska is the Nowy Sącz UTA, which besides general education offers for seniors upon retirement, has introduced courses which can give participants new skills and an option to obtain certificates in new professions (as older persons’ assistants) (see Box 4.1).

**Box 4.1. An example of initiatives for older citizens in Nowy Sącz city: The Third Age University**

Participants of Nowy Sącz’s University of the Third Age are obtaining job certificates in new professions like medical assistants, IT technicians, beauticians, tour guides and human resource experts.

Participants of Nowy Sącz’s UTA made up half of the whole group for the courses to prepare for taking the exam to become a medical assistant. The course was divided into two terms, twice per week for four hours. At the beginning there were 42 participants aged between 20 and 60. Thirty-one of them graduated. Besides theoretical lessons, there was also a lot of practical training. Skills could be verified via special training/apprenticeships in rehabilitation hospitals, social welfare houses (including those for the elderly). As a result, three graduates of the UTA became volunteers in the newly opened Nowy Sącz’s hospice and others could be informal caregivers for their ill, disabled family members. This is an innovative project, meaning that the participants of the UTA could obtain new skills and re-enter the labour market for free.


The Universities of the Third Age have had political support in parliament as there is a special parliamentary working group for the UTA, and they became important partners in creating and designing social policy for seniors (a new Department of Senior’s Policy in the Ministry of Labour and Social Policy was established in 2012).

It seems that there is a need for continued support for UTAs and other seniors’ organisations to create a knowledge network for sharing initiatives between UTAs and to help find volunteers from among its members. One example is the Programme of the Social Activity of Older People (ASOS) of the Ministry of Labour and Social Policy. Since late 2012, with great success, more than 400 organisations, UTAs and other institutions focused on seniors were able to finance their activities thanks to this programme. Many activities financed from these funds are directed at increasing the activity of seniors at the local level (via volunteering, see, the Organisation of Creative Initiatives “ę” from Warsaw which managed to organise special intensive workshops for leaders from UTAs from various parts of Poland, to share best practices between UTAs and their leaders and to develop skills for volunteering for their local community).

**Demographic change, older workers and regional policy challenges**

The regions under study have different economic situations, not only in terms of current inflows, but also in terms of accumulated resources. GDP per capita is a synthetic indicator commonly used for the comparative analysis of the level of economic development of regions. Between 2002-09, the economic growth rate was almost the same in all of the study regions (in Pomorskie it increased by 57.6%, in Łódzkie by 58% and in Małopolskie by 59.6%), but the absolute differences were stable (Łódzkie 91-92% of the national average, Małopolskie 85-86%, Pomorskie 95-98%). The differences result from structures by age, economic activity and economic sector (Figure 4.12). The lower value of GDP per capita for Małopolska compared to the other regions could probably be explained by the fact that it is an agricultural region.
However, in 2010, all regions were below average for Poland (GDP per capita), which is heavily weighted by Mazowsze (especially in comparison to Warsaw, where the GDP per capita is equal to 301.1% of the national average, with a population share of 4.4% of the country). In 2010, the GDP in Pomorskie and Łódzkie was relatively close to the average (Pomorskie: 96.0%, Łódzkie: 92.1%) with Małopolskie (84.9%) being in a much worse situation. At the same time, there were sub-regional differences. The region’s capital area is in a much better situation compared to the rest of the region (for example, in Łódzkie, GDP in Łódź is 123.6% of the national average, which is almost twofold of the GDP in the Sieradz sub-region, which is 64.7%; in Małopolskie, Kraków is 150.9% and the Nowy Sącz sub-region is 57.9%; while in Pomorskie’s Tricity sub-region it is 140.6% and in the Gdansk sub-region it is 69.8%) (Local Data Bank, CSO). The sub-regional differentiation is more important than the inter-regional differences.

Demography is a key factor affecting the development of an economy. In the last decade, changes in economic activity in the study regions were closely related to the national situation on the labour market. The directions and pace of changes were generally similar to the national trends. At the same time, differences between regions were observed in employment figures, reflecting demographic components (age structure of the population) and economic dynamics.
Table 4.7. Employment rates of the population aged 20-64 in Poland, the study regions and the EU27 (1991-2011)

<table>
<thead>
<tr>
<th>Year</th>
<th>Poland</th>
<th>Łódzkie</th>
<th>Małopolskie</th>
<th>Pomorskie</th>
<th>UE-27</th>
</tr>
</thead>
<tbody>
<tr>
<td>1999</td>
<td>62.6</td>
<td>64.7</td>
<td>64.9</td>
<td>61.1</td>
<td>66.5</td>
</tr>
<tr>
<td>2000</td>
<td>61.0</td>
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<td>65.1</td>
<td>59.5</td>
<td>66.9</td>
</tr>
<tr>
<td>2001</td>
<td>59.2</td>
<td>59.4</td>
<td>59.3</td>
<td>56.3</td>
<td>66.8</td>
</tr>
<tr>
<td>2002</td>
<td>57.1</td>
<td>57.9</td>
<td>58.5</td>
<td>55.6</td>
<td>67.2</td>
</tr>
<tr>
<td>2003</td>
<td>56.9</td>
<td>57.7</td>
<td>58.9</td>
<td>54.8</td>
<td>67.3</td>
</tr>
<tr>
<td>2004</td>
<td>57.1</td>
<td>58.1</td>
<td>55.9</td>
<td>55.9</td>
<td>68.0</td>
</tr>
<tr>
<td>2005</td>
<td>58.0</td>
<td>58.8</td>
<td>58.9</td>
<td>58.9</td>
<td>69.0</td>
</tr>
<tr>
<td>2006</td>
<td>60.1</td>
<td>61.2</td>
<td>62.1</td>
<td>62.1</td>
<td>69.9</td>
</tr>
<tr>
<td>2007</td>
<td>62.7</td>
<td>64.3</td>
<td>65.0</td>
<td>65.0</td>
<td>70.3</td>
</tr>
<tr>
<td>2008</td>
<td>65.0</td>
<td>66.6</td>
<td>63.9</td>
<td>63.9</td>
<td>69.0</td>
</tr>
<tr>
<td>2009</td>
<td>64.9</td>
<td>65.6</td>
<td>64.4</td>
<td>64.4</td>
<td>68.6</td>
</tr>
<tr>
<td>2010</td>
<td>64.6</td>
<td>66.2</td>
<td>66.1</td>
<td>66.1</td>
<td>68.6</td>
</tr>
<tr>
<td>2011</td>
<td>64.8</td>
<td>67.0</td>
<td>65.7</td>
<td>65.7</td>
<td>68.6</td>
</tr>
</tbody>
</table>

Notes: Green highlight indicates better than average for Poland and red highlight is below the Polish average. White is equal to the national average.


The Łódzkie region is experiencing a higher employment rate than the national average in the 20-64 year-old age group (the difference is especially visible in the female population, see Szukalski, 2013), in spite of having the highest proportion of workers in the so-called immobile working age and lower than average activity and employability among those aged 50 and over. Relatively high economic activity and subsequent employment levels for young females is probably one of the reasons for the low fertility in Łódzkie. The Małopolskie region profited from a relatively high proportion of people who were self-employed (especially in agriculture), particularly for people 50 and over. The structural changes restricting the importance of agriculture as an economic sector are responsible for the long-term decline in employment rates among people aged 50 and over in the region (Figure 4.13).

Figure 4.13. Employment rate of people aged 50 and over in Poland, the study regions and the EU27 (1995-2011)

The labour market in post-socialist Poland was affected by a high level of unemployment. All study regions experienced this phenomenon, but the extent was dependent on many factors – generally the best situation was observed in Małopolskie where due to a significant proportion of agriculture and self-employment (artisanship, small commerce), the influence of broader economic crises between 1998 and 2002 were modest. The initial worst labour market position of Łódzkie, which resulted from the collapse of the textile and chemical industries developed in the socialist era, shifted due to SME closures (especially small enterprises). The inter-regional differences narrowed due to a general economic increase after EU accession (Figure 4.14).

Figure 4.14. Unemployment rate in Poland, the study region, EU27 and the OECD (1999-2011)

It is worth underlining that the unemployment rate in the Łódzkie region is close to the national average, despite the relatively high rate of this indicator in Łódź. The city is an exception to other Polish “big cities”, where unemployment is typically lower by one-third to one-half compared to the rest of the surrounding region. For example, in April 2012, the unemployment rate in Łódź (11.6%) was more than twice that observed in Warsaw (4.0%), Kraków (5.5%), Wrocław (5.4%) or Gdańsk (6.2%), and was much closer to the regional average (13.5%) than in other regions (Małopolskie: 11.0%; Pomorskie: 12.8%; Mazowieckie: 10.4%; Dolnośląskie: 13.1%). Also, in Łódzkie, the share of the population 55 and older among the long-term unemployed is higher than the national average (2010: Poland 15.1%, Łódzkie 19.2%, Małopolskie 11.4%, Pomorskie 15%). In the case of Łódź, the higher unemployment level is related to the lower level of education of the population and to the long-term consequences of initial unemployment (people who lost their positions in early 1990 and were unemployed for a few years are treated as less valuable work candidates). This implies the need to develop an education system fitted to employers’ expectations and fit for the future demand for labour.

Graphs (Figures 4.13 and 4.14) illustrating the changes in the level of employment and unemployment rates show a clear convergence of values for the regions over the years. The values for the regions are also much closer to the national average. This may be the result of cohesive policy subsequently carried out in
the country with support from the EU structural funds. Although the differences among regions are still present, the scale is much smaller, which is well reflected in Figures 4.13 and 4.14.

Due to general regulations related to the eligible retirement age in Poland of 60 years-old for women and 65 years-old for men, the majority of Poles aged 65 and older do not work and are pensioners. However, as the Polish average employment rate for people over 65 is close to the European one, the obvious exception is Małopolskie, which is above average (Table 4.8). On the other hand, in Łódzkie and Pomorskie, the employment rate for people 65 and over is lower than the average for Poland. Differences across regions could be explained by different attitudes to work and job places being available for silver workers or by the development of the agricultural sector. However, more detailed data is lacking, which could clarify this situation.

Table 4.8. Employment rates of the population aged 65 and over in Poland, the study regions, EU27 and the OECD (2002-11)

<table>
<thead>
<tr>
<th></th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poland</td>
<td>6.4</td>
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<td>5.8</td>
<td>5.6</td>
<td>8.5</td>
<td>4.8</td>
<td>4.7</td>
<td>4.7</td>
<td>4.7</td>
<td>4.8</td>
</tr>
<tr>
<td>Łódzkie</td>
<td>5.5</td>
<td>4.3</td>
<td>4.0</td>
<td>4.8</td>
<td>6.2</td>
<td>3.5</td>
<td>3.6</td>
<td>3.0</td>
<td>3.4</td>
<td>3.9</td>
</tr>
<tr>
<td>Małopolskie</td>
<td>10.5</td>
<td>9.8</td>
<td>9.9</td>
<td>10.0</td>
<td>14.3</td>
<td>6.0</td>
<td>5.0</td>
<td>5.3</td>
<td>6.9</td>
<td>7.0</td>
</tr>
<tr>
<td>Pomorskie</td>
<td>3.5</td>
<td>3.5</td>
<td>2.7</td>
<td>2.5</td>
<td>4.4</td>
<td>2.5</td>
<td>2.9</td>
<td>3.4</td>
<td>2.8</td>
<td>3.2</td>
</tr>
<tr>
<td>OECD</td>
<td>10.7</td>
<td>10.8</td>
<td>10.8</td>
<td>11.1</td>
<td>11.3</td>
<td>11.6</td>
<td>11.9</td>
<td>11.9</td>
<td>12.4</td>
<td>12.3</td>
</tr>
<tr>
<td>EU27</td>
<td>4.6</td>
<td>4.3</td>
<td>4.1</td>
<td>4.3</td>
<td>4.4</td>
<td>4.6</td>
<td>4.7</td>
<td>4.7</td>
<td>4.7</td>
<td>4.8</td>
</tr>
</tbody>
</table>


The interpretation of differences in employment rates for people aged 65 and over requires in-depth research, taking into account the qualitative aspects of both human capital and the structure of the economy in particular regions. Such features as high education rates and self-employment prolong the period of professional activity. The positive regional statistics of employment rates for those 65 and older for Małopolska seem to confirm this relationship. However, there is a need for resources and support for education and entrepreneurship, which can further prolong the period of professional activity, which needs to be taken into consideration, especially in Łódzkie and Pomorskie. The higher the level of education of professionals, the stronger the tendency to stay longer in the labour market and to be more flexible with retraining. Also, the activity in the entrepreneurial sector is positively correlated with an extended employment period. This is most evident in the examples of self-employment and family business where reaching retirement age rarely means actual retirement.

The development of education services oriented towards population ageing should take place in two areas:

1. *Developing and improving the education system in strengthening generic skills.* These skills are best developed in secondary schools and at higher education institutions. This type of education shapes the attitudes towards lifelong learning which are necessary for flexible and longer engagement in the labour market. Schools which provide a broad education are the best places to promote and form an active and healthy style of life. The Universities of the Third Age are the last phase of this type of education. Due to the general education profile, secondary schools and universities have very limited access to funds from business and production sectors, including private funds. Thus, any support from the ESF to strengthen and develop this type of education within regions seems to be a desirable investment for the future. Programme support for lifelong learning and promoting an active lifestyle, including
active ageing, in the education system helps to save costs for future older worker training and healthcare.

2. **Training and skills development should be directly oriented to the needs of the labour market.** They are also of a two-fold nature: i) skills and competence training for employees (especially aimed at ICT competencies to eliminate possible “e”-exclusion, as well as in other specific skills needed by the enterprises); and ii) age management training for employers. The innovative project “I work, I develop competency: An innovative model of support for workers 50+” financed from the ESF and carried out in the Pomorskie region, provides an example of this kind of initiative (Box 4.2).

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**Box 4.2. I work, I develop competency: An innovative model of support for workers over 50 (Poland)**

Pracownia Badań Społecznych DGA implemented in 2010-12 in the Pomorskie Region is one of the first innovative project testing. The project was aimed at the certain target groups:

- **User group:** i.e. representatives of local and regional institutions in charge of leading employment promotion policy, holding the instruments for the implementation of system solutions to economic activity in the labour market, and public counsellors (employment offices) and private labour market institutions.

- **Groups of customers:** those working in the age group 50 and over, residing in the Pomorskie region, interested in remaining in employment and continuing professional development. Moreover, in this group are human resource professionals and human resource departments dealing with human resource management, including age management personnel in companies.

The main objective of the project was to increase the activity and the attractiveness of employment of workers 50 and older in the labour market by developing and testing an innovative model of providing consulting services and development (including career counselling and assessing levels of competence, participation in training and courses, the use of specialised prevention of health-related consulting and legal services relating to the functioning of the labour market).

The dimension of innovation in the labour market affected three areas:

- **a new approach to the problem of availability and dissemination of career counselling services for people who work (creation of the Career Centre 50+)**

- **implementation of new methods of vocational guidance, balance of competence (including the development of tools to diagnose the potential competences of workers 50+)**

- **implementation of the new forms of support: financial instrument activation services in the form of Talon Career.**

**Balance of competency** included activities such as:

- **training/training of ABC Enterprise**

- **personal development training**

- **legal consultations on issues of employment and labour law**

- **consultations on the functioning of the labour market**

- **pro-health consultation (geriatry doctors, physiotherapists, dieticians, psychologists).**

Source: Pracownia Badań Społecznych DGA, 2012, Project Implementation Strategy; I work – I develop competence. An innovative model of support for workers 50+. Pracownia Badań Społecznych DGA, Gdańsk
Population ageing increases the demand for services within the silver economy in each of the investigated regions. The region will react to the need for investments in silver economy services as soon as the positive economic results appear. The silver economy should be understood in a broad sense as covering all activities addressing:

- existential needs of older people
- needs of older employees
- needs of older customers
- needs of employers focusing on silver consumers’ needs.

The general character of population ageing processes means that most of the interventions can be similar or the same across the regions. However, in each region, development strategies should identify the endogenous resources for particular types of silver economy activity development. It especially refers to activities targeted at older customers in such areas as tourism, recreation, spa and bath services. The possibilities for their development are connected with natural environmental resources and green economy development within the particular region. The development of the silver economy should be treated as an opportunity for regional economic recovery.

The development of sectors of the silver economy devoted to the existential needs of older people and needs of older workers should be supported with public funds, including the ESF. However, the activities in these areas are especially appropriate for broader involvement by volunteers, NGOs and all other types of civil society organisations. Some financial support from the ESF may trigger real social movement in this sphere. The development of the silver economy, aimed at older customers and older entrepreneurs, opens up a variety of opportunities for SMEs’ sector activities. SMEs are able to provide services and products tailored to the specific demands of particular age groups of clients and to be flexible enough to follow the ever-changing needs. The ESF funds may be used to provide the know-how and/or start-up funds supporting entrepreneurs and the self-employed ready to settle their businesses within the silver economy.

**Local visions for demographic transitions**

Workshops co-organised by the OECD LEED Programme, the Polish Ministry of Regional Development, the regional Marshall’s Offices of Pomorskie, Małopolska and Łódzkie, and involving local stakeholders, discussed demographic changes in their regions under the following themes: older workers; silver, white and green economies; urban and local sustainable development; and family policy. The key messages are discussed below.

**Older workers**

Stakeholders from the three regions share the same concerns regarding older workers, in particular:

- negative perceptions of older workers compared to younger ones (negative attitudes/stereotypes)
- current poor economic and labour market situation, which works against older workers
- lack of systematic solutions that could promote longer labour market activity of older workers (increasing the in retirement age is not enough).
Government solutions are not enough, and at present may even be acting against older workers (such as the four years of income protection before retirement age). There is a considerable lack of a proper and adequate culture in relation to age management at company levels. The attitude and behaviour of older workers differ depending on their education level, type of work and profession, and thus an increase in motivation or a change in attitude is needed. Table 4.9 outlines the workshop conclusions regarding older workers in the labour market.

Table 4.9. Key messages from the regional workshops: Older workers in the labour market

<table>
<thead>
<tr>
<th>MALOPOLSKA</th>
<th>ŁÓDZKIE</th>
<th>POMORSKIE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A lot of negative stereotypes make active ageing difficult to achieve, including: older people are not ready for change and they are more often sick than younger workers. On the other hand, some people said that ageing workers are reliable, stable and respectful members of staff. It became clear that actively helping older people find jobs can have a high success rate. In addition, ageing workers in employment can play a crucial role in supporting different generations. This is not a one-way system, younger workers can also support older workers.</td>
<td>It is a complex situation made up of shrinking numbers, ageing and unemployment due to redundancies. There is a tendency to think short term. Policy making needs to take into consideration the medium and longer terms, not only at the national level but also at a regional level. The problem might not be evident now, however, in the future there could be substantial problems.</td>
<td>Ageing is not a standalone issue. Ageing, economic and other trends jointly demand new ways of thinking about work, the labour market and continuous development of human capital and policies.</td>
</tr>
<tr>
<td>It is important to recognise the potential of older people and not focus solely on the shortcomings. In addition, training and skill development needs to be adjusted to what older people need and want. This also holds for specific programmes. An example was given of an entrepreneurship subsidy programme that was not successful among older unemployed, but it was noted that they were not supported either.</td>
<td>It is very important to be proactive. Policy making needs to look ahead. Particularly in a region that currently has economic problems, there is a need to make sure the conditions for progress and growth are in place. If there are shortages of workers in the future, it could make growth very difficult.</td>
<td>Working longer does not always mean working in the same job. Radical job changes can be difficult, but there is a need to think in creative ways to discover promising career opportunities. There is also a need to ensure that actions are not undermined by negative stereotypes – people encountering many difficulties lose self-confidence after a while.</td>
</tr>
<tr>
<td>Some participants wondered if the current stance on older people in society is sustainable in the longer term. There will be better times after the financial crisis and with an increasingly ageing population, skills shortages on the labour market might frustrate the region’s further development.</td>
<td>A very important topic in the discussion was the need for flexibility. Working longer does not mean working in the same job. Career opportunities are very important as well as inter-generational solidarity.</td>
<td>The issue of ageing and difficulties in infrastructure are very much connected. It is very hard to expect ageing people to engage in a new job that requires a significant amount of travel to and from work.</td>
</tr>
</tbody>
</table>

Labour market intelligence is a crucial tool to deal with the challenges of ageing. Although forecasting precise changes in the future is problematic, there are tools that give some direction which are very useful. However, intelligence is not only something at the macro level, it also encompasses skill-matching tools at the individual level. Such initiatives are already present in the region, and this is encouraging.


Overall major implications from the older worker focus group include:

- **The need for programmes/initiatives that promote older persons in the workforce** (removing the negative stereotyping, enhancing employers’ awareness of costs related to age discrimination and
of future potential changes in labour markets), and skills development and training need to be adjusted to meet older people’s needs, by undertaking frequent, regular evaluations of their skills and ways to potentially use these in their current or new jobs. In cases where some skills may be lacking, there should be an easy and co-financed way of updating these skills via training. It is not possible to have a unique solution to cover the training needs for each person, so it is the role of job advisors to help not only employers, but also to act as independent advisors for employees.

- **Policies and strategies need to be proactive – not only in the short term – but also in the long term, and to recognise the need for flexibility.** Labour market regulations should be as stable as possible, or, if they must be changed, there should be clear information provided to all interested parties before changes are introduced. The primary aim is to activate the potential of the ageing workforce, not by simply changing the current situation, but mostly by setting up systems to maintain it in the long term. At the regional level, strategies should take into account the specifics of the local labour market for older workers, and people should be equipped with basic economic skills, which are useful in any business.

- **Labour market intelligence is a crucial tool not only at the national level, but also at the regional and local levels.** Forecasting changes and skills matching are initiatives that need to be developed.

**Silver, white and green economies**

New areas of growth in which older people can fully participate include activities centred around leisure, healthcare and green growth. In this context, the new approach in any planned strategy for ageing needs to consider the new multipliers of growth: the silver, white and green economies, whose combination may provide systemic solutions for a particular area.

The differences between the three regions are found by looking at which actions they emphasise. Within the Łódźkie region, there is both an urgency to act now, but also an underlying view that change is too difficult, which links to the lack of a long-term perspective and unwillingness to wait for results that may not be immediate. Additionally, and this is probably true not only for Łódźkie, part of this short-term search for solutions seems to include a perception that solutions have to come from government institutions – there is a dearth of strong involvement and activity from other stakeholders. There is a need to develop programmes/initiatives that encourage public involvement, not only by citizens, but also by private firms. At the same time, participants of the workshops found it challenging to define what concrete measures should be implemented in order to achieve the above-mentioned goals. A practical problem is how to convert the desired aims into affordable and easy-to-implement instruments.

The ageing of society is providing a new customer profile, from working older-age people to senior older people, and the aged consumer, all of whose needs are different, meaning the solutions need to take these differences into account. Leisure and health go together in the last part of the life-cycle, which offers an enormous potential for developing new businesses and occupations, and for the ageing-friendly workplace and urban space. Thus, the ageing profile of the regions is actually offering new opportunities for the economy, which need to be encouraged and promoted. The differences should be analysed in terms of scale, pace and spatial differentiation of the population’s ageing. All regions are touched by the cohort effect, i.e. by the fact that the post-war baby boomers are reaching the age of 60-65. At the same time, the regions have different opportunities due to variations in seniors’ positions due to income, educational attainment and place of residence.

From a practical point of view, the silver economy will be developed primarily in larger cities, led by older people with the financial resources and higher expectations and demands. Thus, the situation will depend on the economic and educational characteristics of the sub-populations in the regions. In comparing
the socio-economic characteristics of the older population across the regions, the situation is most favourable in Kraków (due to a better educated and healthier population); Tricity in Gdansk is in second place; and Łódź is lagging behind due to the city’s economic history (current senior citizens worked in the textile industry, where there were no special education requirements and where proffered wages and salaries were relatively low, meaning that today their pension benefits are low).

At the same time, incentives to increase the participation of older workers and their motivation to work will provide an ageing society with better overall economic performance and allow for inter-generational knowledge-intensive activities. The transfer of tacit knowledge in the workplace to the new generations of professionals, as an innovative training and skill development method, benefits both older and the younger employees, and also benefits firms and industry at large. There is a need for programmes (such as promoting age management measures, joint intra-generational co-operation, mentoring, coaching and programmes aimed at encouraging a healthy lifestyle) that promote the older workforce within businesses as a valuable resource for training and skill development through the transfer of tacit knowledge at the workplace.

There is an enormous potential for encouraging older and elderly people-inclusive developments. A key factor is to increase the purchasing power of the elderly by raising pension schemes, thus creating a market that in turn can respond to the demands from senior customers. Secondly, dependant on re-engaging older people, is a need to increase the tolerance and acceptance of other areas of society, which will only occur by changing the image of seniors to one that demonstrates that they are fit, well skilled and active in the labour market and society. This could be done in various ways, but starting with educating the younger generation regarding ageing is a must (e.g. special educational programmes at schools, special incentives for teachers and pupils to prepare lessons, initiatives which promote healthy lifestyles programmes and physical activity). Additionally, not only media campaigns are needed, but rather it is important for real people to come tell the younger generation about their life, their achievements, their healthy and active style of life – thus making them “real” examples. An answer to the challenges is educational change, which ensures that the next generations of elderly are better educated and more aware of their power. However, despite the huge demand already developing, the supply of products and services, and new occupations are currently very limited, which is putting constraints on developing the silver market or the silver industrial ecology. Public policy should promote elderly self-organisation as both good examples of practical institutions that can raise seniors’ quality of life, and as an example of non-commercial entities.

Entrepreneurship of the elderly should be promoted too, particularly if the newly established enterprises are quasi-commercial, i.e. production of items is priced lower than their market equivalent. Also, promotion of volunteering in various spheres, including the long-term care sector, can have positive results for all (European Commission, 2013).

There is a need to support the development of the silver economy and new financial instruments are needed to encourage the entrepreneurship of older workers as well as younger ones. New professions can also be developed, such as “assistants for cultural advice” or “assistant elderly” to provide flexible solutions for elderly people. The silver economy could act as an umbrella strategy for engaging older people.

However, more challenging is supporting the development of the white economy, which sees new professions also needed for the management of disabilities, diabetes, hypertension, smoking and mental health issues. The new health professions are fundamentally different from mainstream healthcare, which is focused on “curing” the patient. In an ageing society, the focus needs to be shifted to “management of symptoms” and management of the variability of symptoms. For example, more professionals are needed to develop monitoring systems and procedures for at-home care, and professions connected with
rehabilitation or the use of telemedicine could be significantly expanded. Motivating health professionals to invest in their careers and to innovate is a significant challenge in the nursing area alone. There is also a generation gap in certain professions and a lack of flexibility in the sector, which is already leading to difficulties as the regions are ageing.

The policy implication for this could include financing projects using medical facilities which test the advantages of telemedicine and telecare in regional centres away from the city centres, and particularly at the local levels (gminas of regions). In Małopolska, the project ADAT2DC is a good example of such a project, which aims to test and introduce telemedicine and telecare options into the everyday life of older inhabitants of the selected poviats.

Additionally, within in the white sector, there is a need to support those who live alone and those who cannot care for older family members because they need to work. Day-visit centres for older people could be more widely developed and used to assist in this sphere, as is currently exemplified by the Daily Centre for Culture and Rehabilitation in Nowa Huta, Kraków.

In terms of supporting the development of the green economy, recycling and waste treatment in hospitals could be optimised. Also, linking tourism with leisure activities will offer quality and healthy services to the silver customer. One concrete recommendation from Małopolska that was mentioned during the group discussion is that there could be support for projects/programmes that would support medical institutions such as hospitals in applying for environmentally friendly infrastructure developments, which would in turn provide better management of recycling and waste treatment.

4.4.3 Urban and local sustainable development

In all workshops, local stakeholders indicated the importance of changing the perception of the older population (both among themselves and of the others about them) in order to engage them in the labour market for a longer period of time. A number of practical and good examples of projects and programmes implemented by local government agencies, businesses and NGOs were mentioned, which can be found in the regional working papers (Perek-Białas, 2013; Sagan, 2013; Szukalski, 2013). However, not all projects/initiatives seem to be sufficiently meeting the needs, so more systematic approaches will be needed to meet future demands. Some irregular and unconnected projects could be joined in order to “synergise”.

Engaging the older population is important for economic reasons as well as for social ones (e.g. to engage in social activities in order to generate a sense of belonging to society, which is an important element of well-being for the older population). In this respect, all three workshops stressed the importance of third-age universities and IT training for older people in order for them to stay informed and connected.

Given some of the differences in the urban and rural environment (e.g. the older population in the rural environment may be better supported by existing family systems and therefore may be more resilient than those in the urban environment, but they may not be as well supported by medical/healthcare, education and cultural services as those in the urban environment), recommendations for social policy should encourage the development of different policies and programmes for urban and rural environments in order to better cater to the different needs – thereby taking into account the “territorial” dimension (Martinez-Fernandez et al., 2011). To obtain this aim, updates to strategic planning, at different levels of government, and taking into account demographic changes, are needed. All regions have already noted demographic issues in their strategies, but ageing is still treated with quite differing emphases in these official strategic documents. Comparisons could thus be made between regions, but at the same time, constant evaluation is needed if changes are required.
There is a need to acknowledge that local governments will need to be mindful of the differences in demographic composition within their jurisdiction, even if the overall trend may be characterised as “young” or “shrinking” (e.g. the percentage of 60+ population in districts of Kraków ranges from 14% to 27%) and take appropriate actions based on analysis of different scenarios. This should be accompanied by a cost-benefit analysis, which will confirm the rational and best way to implement solutions. To convince the public of the importance of such changes, there is a need for social consultation and transparency in all dealings. Information on demographic change at the local or sub-local level should be readily accessible to inhabitants and their representatives.

Older people are often seen as burdensome or a threat (e.g. a source of increased medical or care costs), rather than as valuable resources for society (e.g. a stable, predictable, knowledge-rich and loyal workforce). There is a need to raise awareness to overcome the stereotyping of the older population in society. This could be done in various ways, and not just via media campaigns, but also through education from kindergarten onwards (including school, work and retirement), explaining ageing and its possibilities. The Universities of the Third Age and other such senior citizen-oriented organisations could act as partners, helping to develop a joint curriculum.

From a sustainable development perspective, it is important to ensure that different stakeholders are engaged in decision-making processes and that those who benefit or are affected by certain decisions have ownership of the issue. It appears that in Poland, the historic role played by the central government (e.g. free, state-provided medical services) is affecting the current way of thinking and society’s view of how some of these issues should be addressed and dealt with, which in turn makes it difficult to gain support for some solutions.

Given the likely financial challenges associated with an ageing society, the issue of governance may need to be revisited. Citizens may need to acknowledge their role in society in dealing with some of the challenges ahead (e.g. in the form of volunteering or social entrepreneurship or co-operative membership), rather than leaving it all in the hands of the government. Participatory actions and consultations are needed with as many interested groups as possible. A recent good example of this type of interaction was a consultation programme undertaken by the Ministry of Labour and Social Policy. The programme, which was called the Programme of Activity of Older People (ASOS), was run in the summer 2012 mostly via the Internet, with more than 140 suggestions and opinions expressed by different institutions, organisations and individuals. The ministry was then able to take into account some of these suggestions and recommendations in order to improve the plan and better implement the programme, which had been approved in parliament and was then introduced in autumn 2012.

As has been demonstrated, most initiatives in this area are supported by the ESF (e.g. the Operational Programme on Human Capital Development). However, the programme will not last forever and from an economic sustainability point of view, it is important to diversify the resource base now or to have scenarios for projects which can be continued when funding ceases. Recommendations could be formulated to encourage local governments to diversify the funding base, ensuring it meets legal requirements.

In general, during the workshops, the environmental considerations were quite limited. However, there seemed to be some potential for a green/low-carbon economy in all three regions. Well-designed transport systems, allocation of service points, commercial and residential mixes, management of environmental qualities (including energy, air, waste and water management) are particularly important in preparing for an ageing society. In the case of Małopolska, the issue of the environment was not mentioned spontaneously during group discussion. However, Małopolska was perceived as being a region that is attractive to tourists, meaning it could develop silver tourism (including for religious purposes) and health or spa tourism options. In Łódzkie, the emphasis is laid on geothermal energy as an important factor,
which has had a double positive effect on the competiveness of the region: improving its attractiveness to tourists and providing renewable energy.

All policy recommendations in this report are formulated bearing in mind that different levels of government are responsible for different policy areas concerning demographic change. This is crucial as the gmina level is/should be the most decisive actor, having the ability to finance or not certain actions or measures. Gminas-level governance should be able to ascertain which funds are insufficient for a certain year. There should be a “buffer” demographic fund, which could temporarily be used to ensure that the primary needs in a particular year can be met; as a kind of solidarity agreement within the region. As was stated in the analysis of local initiatives, some services, if they are really needed, should have the option of being cross-financed, and it is therefore important to look at both horizontal and vertical linkages across different policy fields and use these options to ensure development proceeds.

**Family policy**

Demographic change creates an increased risk of social exclusion and affects many different social categories (including older people, homeless people and families).

Stakeholders in all regions agreed that a major weakness of the family policy is underdevelopment of public child-care services. Limited access to low-cost services is one of the reasons why many young women decide to only have one child or remain childless altogether. Polish demographers (Governmental Council for Population, 2012) have provided many recommendations, some of which could have policy implications:

- longer maternity leave (and also longer paternity leave for fathers)
- income tax deductions to cover the cost of baby-carers
- tax deductions for employers who organise crèches and kindergartens at their workplaces
- more “flexibility” of crèches and kindergartens (e.g. longer operating hours).

The second important factor affecting decisions concerning raising a family is access to housing. High housing prices (either renting or buying) are among the determinants of fertility ageing and fertility reduction. There is a need to enable access to housing – the government programme “Family at own” (*Rodzina na swoim*), which provides government support to pay the interest on a mortgage for young families, is not sufficient. Local authorities own some buildings that are available to rent more cheaply, but social housing overall is undeveloped. One suggestion is that housing could be assigned to rent temporarily by young people who are starting out in a profession or starting a family.

The third factor is insecurity in one's career, which is related to the growing number of temporary and contract positions, and lower paid jobs.

Institutional spaces are needed to deal with inter-generational solidarity, for example:

- *In the workplace*, to allow the transfer of skills and knowledge. This ensures people learn from each other, and is particularly valuable when one generation lacks certain skills such as ICT or new technologies, in which case the older person can have their skills updated with the support of the younger generation. In turn, the younger generation can see and discuss how to deal with different “real working life” situations, which the older generation, having more work experience, has encountered. This would require more flexibility in the workplace.
Workplaces should be places where gender solidarity is pursued through different measures in order to ensure a fair balance between family and professional life, such as equal sharing of the care duties between both parents, etc.

- **In the family**, to allow grandparents and even “adoptive grandparents” to take care of the grandchildren. Special allowances could be paid to grandparents, to substitute for potentially lost remuneration, in order to help them when deciding if they wish to undertake “active” grandparenting.

- **In society**, to help develop a more solid and cohesive society; this could be the ideal platform to foster inter-generational dialogue. Social economy initiatives seem especially tailored for this. One such example already exists in Łódź, where there is an initiative aimed at encouraging the elderly to utilise day senior centres, at which their involvement with kindergartens is promoted by encouraging them to assist and supervise the kindergarten attendants.

To deal with the consequences of demographic change, it is necessary to “think outside of the box”, and this includes new institutional thinking, as construction of policies in consultation with the users (older persons and families) is needed in order to provide effective services.

**Guidelines for local management of demographic changes in Poland**

Demographic change is a key challenge for local development. Strategic solutions must take into account the interplay of elements within a particular local area of development. At the same time, there are opportunities to be fostered, such as the development of the silver economy of older entrepreneurs, the white economy of medical services for the elderly population and the natural green economy. The Polish case study revealed the complexity of the demographic challenges occurring within the regions, with each region experiencing different issues associated with its socio-economic situation. The Małopolskie and Pomorskie regions are experiencing population growth, population ageing and low fertility, while Łódzkie is experiencing population decline and ageing, low fertility, together with youth and young adult health concerns. These differences in demographic situations require a territorial analysis so that regional and local perspectives on policy preparation, development and implementation are co-ordinated with national policy efforts and key European Social Fund (ESF) funding.

The OECD LEED’s “Local scenarios of demographic change” project on Poland and the corresponding final seminar in Warsaw, hosted by the Ministry of Regional Development, 16 October 2012, revealed six key interconnected areas of demographic change for which policy responses were required both at national, regional/local and social levels (Figure 4.15).
1. Managing the demographic transition with sustainable economic development

Demographic changes, such as population decline (in the case of Łódzkie), population ageing, low fertility rates and migration, are key changes in the demography of Poland and the study regions. Due to socio-economic differences, regional systemic and sustainable strategies should first be explored, developed, implemented and reviewed, focusing on the key aspects that make the region unique. Essential measures for a strategy that provides the starting point and guidance for future projects and initiatives for each region include:

- attracting and settling new immigrants
- improving and promoting transport accessibility
- creating a family-friendly community
- supporting entrepreneurship, small and medium enterprises (SMEs), and research and innovation
- stronger local job creation approaches.
2. **Focusing on family policy in light of low fertility levels**

All regions are experiencing low fertility rates, at below population replacement levels, which has a significant impact on population growth and economic stability. Each region should have a long-term family policy that outlines the provisions to support parenting decisions. Family policy requires national legislative initiatives to support regional and local efforts. Developing institutional support structures such as financial assistance, social infrastructure and flexible forms of employment and workplaces is essential for promoting family values, monitoring family situations and recognising family problems. Closing the gender gap for equality will also support family development. The ESF has a role in supporting programmes and initiatives not only to manage, but to promote, family support and family creation.

3. **Encouraging healthy and active communities and promoting inter-generational solidality**

All of the study regions are faced with population ageing, with Łódzkie having the added burden of generally poor health within the working-age population. Health promotion and disease prevention are vital for increasing life expectancy, along with creating age-friendly environments and increasing the retirement age and the labour market participation rate. Essential in this process is the financial support of the “white” (health services) sector, developing health clusters, networks and pooling of resources for each region. Pomorskie has additional potential prospects, being part of the Baltic Sea Regional Strategy, wherein there will be opportunities to be part of projects centred around innovation in health and life sciences. There are significant opportunities for the ESF to support projects that encourage healthy lifestyles and active ageing in the study regions. Strategies in the labour market need to address the needs of both younger and older workers, by linking activities for jobs and skills development that can provide an inter-generational mix and knowledge transfer in both formal and informal environments.

4. **Developing new areas of economic growth: The silver economy and managing an ageing workforce**

Population ageing is a demographic phenomenon that is occurring across Poland, which is providing both opportunities for the “silver economy” (the ecosystem of services for the older customer) and challenges regarding workforce ageing. The increasing products and services needed for seniors will require a long-term care system, support of NGOs, creation of new leisure and business services and products, as well as providing opportunities for entrepreneurship and SME development in this sector. There will be opportunities for the ESF to provide programmes and initiatives for knowledge, and start-up support for entrepreneurs who are looking to take advantage of the silver economy and NGOs who are providing care services and family support. It is also important to encourage work at an older age, by removing the negative stereotyping of ageing workers, developing programmes to extend working activity (skills and training), promoting and providing incentives for lifelong learning, supporting entrepreneurship for older persons, mentoring programmes for enterprises, funding initiatives for firms in age management programmes, flexible work forms and support for social organisations in implementing projects that support ageing workers. The ESF could potentially provide significant support for programmes and initiatives implemented by social organisations and regional governments in partnership with enterprises.

5. **Increasing skills and competency levels in light of a changing workforce**

Regional workforces are slowly changing from low-skill needs to medium-high skill requirements. The Łódzkie region, and in particular Łódz city, is located strategically close to Warsaw and with transport links to Europe could be developed as a centre for student education. However, improvement is needed to strengthen the education system – building basic generic skills in the young and promoting further education among young adults. Provision of better working places also needs to be achieved, which links
to improving the health conditions for older workers, with the aim of higher retention rates to ensure a longer working life. The role of the civil society organisation that fosters citizen participation in the provision of opportunities to engage young persons, increasing/improving skills and employability is an opportunity for ESF support in youth education programmes. Another avenue for ESF is lifelong learning programmes and University of the Third Age (UTA) support.

6. Delivering smart and co-ordinated policy and planning infrastructure for inclusive communities

Addressing demographic change requires a policy mix that promotes horizontal and vertical linkages across different policy fields and levels. Dialogue among different ministries (regional development, labour, education, economy, and environment) and across the various levels of policy delivery (state, regional and local) needs to be well developed for the design of short-term and longer term policy instruments. Programmes and initiatives need to be flexible enough to allow local authorities to adjust financial management to fit the local circumstances. Therefore, adapting the urban infrastructure for smaller and ageing communities requires planning to support the adaptation of the built environment and social services so that shrinking budgets can be directed towards areas that are more in need. Competencies and skills of local actors also need to be updated, to be able to use the built environment and physical infrastructure in smart and strategic ways.

7. Optimising the use of funding: The European Social Fund as an instrument of change

The ESF is a vital tool to pursue a territorial approach; however, it requires flexibility to create ownership at the local level and to foster a co-ordinated policy approach, especially within job creation policies and programmes, education and skills development. The report highlights aspects for which the ESF could be utilised to address demographic transitions in family support, research and resources for childcare needs, work-life balance and supporting SMEs in age management.

8. Fostering cross-regional sharing of experiences and a community of practice on demographic change

As countries adjust to demographic change, shared information on international experiences can provide information on the causes, effects, strategies and policies and, to some extent, their impacts. However, less effort is directed at providing opportunities for regional knowledge sharing within the country. Poland could rectify this by introducing a “demographic change community of practice”, which could be a web-based mechanism, but with workshops run across the country in order to share and discuss practices and ideas for the present and the future – a community-based knowledge-intensive activity that can inform policy development in this field over the years to come.
This forecast was developed in 2009 for the period to 2035. Statistics Poland is currently working on developing the next version of the population forecast, which is based on the data obtained under the national census 2011.

www.stat.gov.pl/gus/index_ENG_HTML.htm

Łódź w oczach studentów łódzkich publicznych uczelni wyższych. IV edycja (2009-2010 (Lodz in eyes of the people studying in Łódź), http://spatium.uni.lodz.pl/?page_id=303.

More information on this EU-funded study carried out in Germany, Greece, Italy, Poland, Sweden and the United Kingdom (contract n. QLK6-2002-02647) is available at: www.uke.de/extern/eurofamcare/beschreibung.php (accessed 20 October 2012).

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Based on comments of OECD/LEED expert Ms Antonella Noya/CFE/LEED.
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CHAPTER 5:

RESILIENT LABOUR MARKETS AND DEMOGRAPHIC CHANGE IN SELECTED REGIONS

OF THE NETHERLANDS

Although the population of the Netherlands is increasing, the population growth rate, even if fluctuating considerably, has been declining since the 1960s. The age structure of the Netherlands since the 1960s has also experienced change, declining youth (under 20 years old), growth and then decline in the 20-50 year-old age cohort, a significant increase in the 40-65 age cohort, and gradual increases in the 65-80+ cohort. As a result of the changing demography, the workforce will be older and this will impact upon the labour market, increasing the number of older workers and reducing the number of new entrants into the labour market. The case study of the Netherlands revealed the different responses to demographic challenges occurring within the regions; with each region (Groningen/Drenthe, Limburg and Zeeland) experiencing different issues associated with its socio-economic situation, localised population shrinkage, population ageing, migration, and labour force shortages and skill gaps.
This chapter summarises the findings from the case study of the Netherlands for the international project on “Local scenarios of demographic change: The impact on local labour markets”. The project was conducted by the OECD Local Economic and Employment Development (LEED) Programme, in partnership with the Ministry of the Interior and Kingdom Relations and the provinces of Groningen/Drenthe, Zeeland and Limburg (Figure 5.1), with the support of the European Commission DG Employment, Social Affairs and Inclusion. Results indicate that the Netherlands’ response to demographic change is well advanced, but additional actions can be undertaken, particularly regarding the shrinking and ageing society, especially within the context of regional and local labour markets.

Figure 5.1. Map of the Netherlands and the study regions

Note: This map is for illustrative purposes and is without prejudice to the status of or sovereignty over any territory covered by this map.


Strategic approaches to demographic challenges require a re-positioning of labour markets towards sustainable and resilience-promoting strategies. A “whole-of-government” approach is needed to design economic development policies, population and health policies, labour market policies, and skills and education policies targeting sustainable and resilient communities. Sustainable development for local economic development underlines the need to adopt a long-term approach that considers economic, social and environmental issues at the same time (Martinez-Fernandez et al. 2012). A holistic development approach that integrates economic growth, health, education, environment and other needs can produce higher quality outputs than stand-alone projects operating on a narrow spectrum of deliverables.

The Netherlands could help its communities to adapt to changing demographics by enabling the labour market to become more dynamic and responsive. One approach would be to involve different
generations in policy considerations, while emphasising local strengths and weaknesses. This would foster a smarter and more co-operative response and help communities to become more resilient (Table 5.1).

Table 5.1. A systematic approach to re-positioning labour markets in transition

<table>
<thead>
<tr>
<th>Inter-generational responses to labour market challenges</th>
<th>1. Re-position older workers (strategies for lifelong learning and inter-generational skills transformation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Co-operative frameworks towards a dynamic and responsive labour market</td>
<td>2. Integration of the unemployed and lower skilled (strategies for job carving and training)</td>
</tr>
<tr>
<td></td>
<td>3. Connection between education and the labour market (strategies to address the mismatch in the labour market, interactions between schools and businesses, educational choices for the young, skills ecosystems)</td>
</tr>
<tr>
<td></td>
<td>4. Promotion of entrepreneurship and workplace flexibility (strategies for incubators and entrepreneurship education, skills development in small and medium enterprises (SMEs))</td>
</tr>
<tr>
<td>Place-based development for resilient communities</td>
<td>5. Identification of new sources of growth (strategies for work ecologies and uniqueness of place)</td>
</tr>
<tr>
<td></td>
<td>6. Promotion of healthy communities (strategies for good places to live and social capital development)</td>
</tr>
</tbody>
</table>


Labour markets need to be re-positioned towards sustainable and resilient development

Addressing population stagnation at the local level

The Netherlands must continue addressing demographic change. Although the population is growing, the population growth rate, even if fluctuating considerably, has been declining since the 1960s (Figure 5.2). The cause of the fluctuating and declining population growth can be linked to natural increase (which is in decline) and fluctuating decline in net migration (immigration minus emigration) (Figure 5.3). It can be concluded from this that the population growth potential of the Netherlands is greatly dependent on immigration from other countries, which could have significant consequences for skills levels and the labour market environment.

Figure 5.2. Total population and growth rates in the Netherlands (1960-2011)
Total population numbers increased by 25.5% from 1972 to 2011, and this increase is expected to continue until it reaches 34% (relative to 1972 levels) in 2035 and then stabilise at 17.8 million. However, regional differences are significant. At the provincial level, population numbers since the year 2000 have started to decline in Limburg, whereas Zeeland and Groningen show stable population figures (Figure 5.4). At the NUTS III (local) level, those areas located at the periphery of the provinces are facing the sharpest population decline (Figure 5.5), due to a combination of a stronger ageing process and a negative migration balance, meaning that young people who cannot find jobs (or education) move to areas where there are more opportunities. Continued and co-ordinated policy focus is needed in these peripheral local areas, to strengthen the re-positioning of labour markets to areas in which the population decline is taking place and encourage personal networks that will lead to the development of resilient communities.
Figure 5.4. Total population in the Netherlands and study regions (registered for 1972-2011, projections for 2012-40)

1972=100

Developing inter-generational engagement to stimulate ageing local labour markets

Many demographic trends in the regions are explained by the ageing of the population. All four provinces have a median age one to three years higher than the Netherlands as a whole (40 years). Differences are even more significant at the NUTS III (local) level, with Zeelandic Flanders having a median age of 46, and South Limburg and Delfzijl a median age of 45.

Figure 5.6 clearly illustrates significant changes in the age structure in the Netherlands: declining numbers of youth (younger than 20 years old); growth and then decline in the 20-40 year-old age cohort; a significant increase in the 40-65 age cohort; and gradual increases in the 65-80+ cohort. As a result, the workforce in the near future will be older, which will considerably change the situation in the labour market, increasing the number of older workers and reducing the number of new entrants into the labour market.

Nationally, the share of population 65 and older increased from 10% to 15% between 1972 and 2011. Some NUTS III (local) regions are already close to 20%: Zeelandic Flanders and South Limburg (Figure 5.7). Furthermore, in the coming years, the share of people aged 65 and over will continue to increase (Figure 5.8). Older workers (55-64 years old) will constitute an increasing part of the labour force; increasing the employment rates of older people is thus a necessity in order to compensate for the lower number of young people entering the labour market. Developing inter-generational activities that connect the young with the old is a resilient and feasible strategy for local prosperity. The inter-generational approach can be useful in narrowing the gap between different age groups and in helping disadvantaged people to be active in the labour market. This approach is fundamental to increasing civic participation, building communities, improving health and creating better employment opportunities, particularly in shrinking labour markets (Martinez-Fernandez et al., 2012).
Figure 5.7. Population 65 and over as a share of total population in the Netherlands

![Bar chart showing population 65 and over as a share of total population in the Netherlands for different regions in 1972 and 2011.](chart)


Figure 5.8. Share of the population aged 65 and over, per COROP area in the Netherlands (NUTS III)

![Map showing the share of the population aged 65 and over per COROP area in the Netherlands (NUTS III) for 2010 and 2035.](map)

Note: This map is for illustrative purposes and is without prejudice to the status of or sovereignty over any territory covered by this map.

Future shifts can be illustrated by the old-age dependency ratio (population aged 65 and over compared to the population aged 15-64). This indicator shows how demographic changes may influence pension systems in the future. According to Eurostat data, since 1990, the indicator for the Netherlands has been lower than for the EU27. In 2010, the Netherlands’ ratio was 22.82 persons aged 65 and over compared to 100 persons aged 15-64 years, and for the EU27 it was 25.92. But it is forecast that the indicator will be higher for the Netherlands than for the EU27 by 2025, when it will reach 35.15 and 34.57, respectively. However, as illustrated in Figure 5.9, the Netherlands is predicted to dip below the EU27 ratio again by the year 2040.

**Figure 5.9. Old-age dependency ratio in the Netherlands (population aged 65 and over compared to the population aged 15-64) comparison with EU27**

Increasing the participation of older workers in the labour force is intertwined with increasing health and active ageing. According to the Active Ageing Index (European Commission and United Economic Commission for Europe, 2013) and as introduced in Chapter 2, overall the Netherlands ranks 5th (out of the 27 countries in the European Union), below Sweden, Denmark, Ireland and the United Kingdom. Within specific component indices, the Netherlands ranked 8th for employment, 6th for social participation, 3rd for independent living and capacity for active ageing. However, the Netherlands’ score was 38.9% of the theoretical potential for full active ageing engagement of people working or providing skilled inputs, which makes it possible to achieve an improved economy, with increased productivity and lower healthcare costs. Thus, policy efforts need to be directed towards this end in areas such as workplace activation, volunteerism and lifelong learning.

**Addressing labour force decline in peripheral areas**

As illustrated in Figure 5.10, employment rates have risen considerably in the past 15 years in the Netherlands, from 58.7 in 1996 to 67.2 in 2011. In general, Zeeland is very close to the Dutch average of 67.2; Drenthe and Limburg are slightly lower (64.7); while Groningen is substantially behind (60). The participating provinces show similar rising trends, but fluctuations throughout the years are different. Groningen and Drenthe show sharper fluctuations (positive and negative) than Zeeland and Limburg. At
the NUTS III (local) level, the picture is varied, revealing some shrinking areas, which have the lowest participation rates (Oost-Groningen, Zuidoost Drenthe, South Limburg), while others approach the national average (Zeelandic Flanders, North Limburg). Delfzijl stands out because of the large increase in its employment rate (Figure 5.11).

Figure 5.10. Employment rate in the Netherlands and study regions (1996-2011)


Figure 5.11. The Netherlands employment rates in NUTS III (local) regions (1996 and 2011)

Unemployment rates in the Netherlands fluctuated between 3.6% and 5.3% from 1999 through 2012. Groningen stands out because it has a consistent high unemployment rate (6.6% in 1999 and 2005), followed by Drenthe and Limburg, which were consistently above the national average; only Zeeland was below (Figure 5.12).


At a regional level, the decrease in the potential labour force is widespread (de Jong and van Duin, 2011). In 2010, 24 of the 40 NUTS III (local) areas experienced a decrease in the potential labour force (Verwest and van Dam, 2010). According to the regional projections (de Jong and van Duin, 2011), the potential labour force is expected to decrease in almost all NUTS III areas before 2040. Peripheral regions in particular, among which the case study regions are included, are expected to face a severe decline in the potential labour force. This applies in particular to the Delfzijl region, with an expected decline of over 20%, and Zeelandic Flanders, east Groningen, south-east Drenthe, North Limburg and mid-Limburg, with a decline of 10-20%. For South Limburg, the expected decline is just below 10% up to the year 2025 (PBL and CBS, 2011) (Figure 5.13).
Smart strategies in peripheral regions need to continue through co-ordinated national-local policy responses

Demographic and economic decline is more likely to occur in peripheral regions with a mono-functional economic structure. Central urban regions with a diverse economic structure and/or regions with large sectors such as business services, industry or logistics, seem to be less vulnerable to demographic and economic decline. Territorial population decline and population ageing has and will continue to have social and economic consequences for national, regional and local labour markets. These include:

- **A decreasing potential labour force**, due to the declining numbers of youth and stagnating working-age population, leading to a dwindling labour supply, a tight labour market and more competition over workers, or even labour shortages (Verwest and van Dam, 2010; Verwest, 2011).

- **A decrease in industrial activity and business vitality as firms relocate or reduce activities** from shrinking regions to growing regions because of labour market issues.

- **A decrease in the population** and the number of households implies a smaller local market and may lead to an oversupply of services and housing. Such a surplus in housing may in turn result in vacant properties.

- **Local services (e.g. infrastructure, transport, care) will become more expensive**, as demand in shrinking regions is expected to increase due to the ageing population, with a simultaneous decrease in labour supply (Verwest and van Dam, 2010) and an eroded tax base as the population declines.
• **Skills ecosystems weaken** as the private sector and skilled labour force are reduced.

Strategic solutions must encompass both local and regional capacities to attract and generate jobs within the national and economic contexts.

Demographic changes such as localised population decline, population ageing and migration are key changes in the demography of the Netherlands and particularly in the study regions. A negative economic situation may increase outward migration. A decrease in the labour force may also lead to a decrease in job growth which, together with an ageing population, could prompt firms to leave shrinking areas and re-establish in growing regions. For localised shrinkage and population ageing, efforts should also focus on encouraging the existence of personal networks and personal attachment to the area (Musterd and Murie, 2010; Musterd and Kovacs, 2013).

These differences in demographic situations require a territorial analysis so that regional and local perspectives on policy preparation, development and implementation are co-ordinated with national policy efforts. The need is for holistic, but customised solutions, which respond to the specific needs of the local labour market, individual company or person, based on national/regional/local partnerships. The national-local axis requires systematic consideration for policy delivery.

Due to socio-economic differences, regional systemic and sustainable strategies should first be explored, then developed, implemented and reviewed, focusing on the key aspects that make the region unique. Essential measures for a strategic framework that provides the starting point and guidance for future projects and initiatives for each region include:

• **Developing regional networks for local action** in order to establish national and regional provincial policy support for demographic transition, and to raise the awareness of local authorities and businesses of the impact this will have on the labour market and economy.

• **Strategies that are place based and highly contingent on context** (instead of place neutral). These should consider economic, social, political and institutional diversity in order to maximise both the local and the aggregate potential for economic development.

• **A territorial approach** that takes into account the demographic diversity of shrinking and predicted potentially shrinking municipalities. Policies should anticipate and manage demographic decline rather than combat it (Verwest and van Dam, 2010). Municipalities, as well as the business community, should manage with less people; support people and families who want to stay; and provide a living environment that continues to appeal to existing (and potential new residents), in particular, those in the 20-65 year-old age group, in order to maintain (and potentially increase) the labour force. Local communities should be made aware of not only the challenges but also the opportunities inherent in local shrinkage, through education campaigns and raising awareness of innovative thinking and options (Box 5.1).
Box 5.1. Raising awareness through innovative solutions in the Netherlands

“Leve de Krimp!” is a methodology based on an alternate reality game. The game raises awareness of the effects of depopulation on the daily lives of inhabitants in shrinking regions. Current inhabitants are the most important stakeholders in shrinking regions. The game stimulates a sense of ownership and encourages people to start taking action. The methodology is based on current wins and potential options in shrinking areas with smart connections being made between streams, such as knowledge, energy, materials, services and money. The collective intelligence of the community in a shrinking region is thus mobilised and ideas arise that are supported from the bottom-up. In this way, the quality of life within a shrinking region can be kept high – or even made higher – despite a quantitative decrease in inhabitants.

A pilot was implemented by the game developers in the Achterhoek, a region in the east of the Netherlands, which is facing anticipated depopulation. In the pilot (played by three inhabitants over a week and a half), players imagined themselves living in the year 2039. The game created awareness of the effects of population shrinkage and the players thus became motivated to develop ideas and solutions.

“Let’s Shrink!” (“Leve de Krimp!”) consists of a generic part of the game, and a specific part. The generic part is the framework of the game, which can be applied to different regions that are experiencing depopulation and ageing. The specific portion is the option to shape the content of the game to match the culture, mentality and relevant themes within a shrinking region. For the next stage of the project, Studio Papaver has a partnership vision, in which a combination of partners with a strong interest in the generic portion of the game (such as ministries and European programmes), are combined with partners that have a strong interest in the specific part (such as local organisations and private parties). The next step would be to undertake a larger pilot and then fine-tune the game and disburse it for real-world application.

Note: 1. The title “Leve de Krimp!” could be translated as “Let’s Shrink!”, it has a positive tone to it. Most of the time the subject of depopulation and shrinkage is labeled as something very negative. “Leve de Krimp!” focuses on an increase of quality parallel to a decrease of quantity.


Figure 5.14 illustrates three interconnected policy themes that are vital for regional labour markets attempting to manage a shrinking and ageing society: i) inter-generational responses to labour market challenges; ii) co-operative local frameworks towards a dynamic and responsive labour market; and iii) place-based development strategies for resilient communities.
Develop inter-generational responses to labour market challenges

There is a tendency for older workers to retire relatively early, either due to attainment of retirement age or a preference to stop working. The Dutch government is in the process of raising the retirement age to 66 years old by 2018 and to 67 by 2021 (VVD and PvdA, 2012). Although this will increase labour participation among the older age cohorts, it will not fully compensate for the expected decline in the potential labour force (Commissie Bakker, 2008; Verwest, 2011; EPSON and NIDI, 2010). Nevertheless, the raising of the retirement age will place less pressure on national old-age entitlements and encourage longer and more active working lifestyles. Other reasons for older workers leaving the workplace are: the increasing competition from younger and better educated people; the widespread use of technology; and unsupportive work cultures and behaviours. Encouraging companies to implement age management practices, such as flexible working hours, opportunities for older workers to update their skills, and better
health and/or safety programmes, would encourage older workers to stay within the working environment. Examples of specific measures are:

a. Encourage a new work continuum ranging from full-time to part-time within the employment options for companies, governments and other sectors so as to extend the length and variety of engagement in working life, leading to longer employment and increased productivity for people across all sectors. This will extend the working age while allowing people to meet the requirements of family, community and other engagements that, in turn, improve personal, family and community health. Inter-generational engagement in changing working conditions also needs to be taken into account.

b. Identify and implement programmes to re-position workers (older and younger) who are un-(or under) employed, especially lower skilled workers, in a concerted effort to encourage their engagement and integration into the workplace (job carvingii) and to connect older with younger workers in the workplace. Incentives for continuing to work after age 60, as well as social security systems that are designed to promote working late in life need to be developed, including creating new roles within companies for workers in their later life.

c. Foster lifelong learning to stimulate competitiveness, because economies now depend on value that is added from the entire workforce. Regional firms need to invest in and improve their learning culture, with flexible and tailor-made training and skills development programmes, not only for new employees, but also for the older workforce. These programmes will promote inter-generational workforce skill linkages, such as master-apprentice relationships. To increase entrepreneurship or self-employment, educational programmes and business coaching should be promoted wherein the skills of older people are transferred into new opportunities.

**Strengthen national-local alignment and co-operative frameworks to create a dynamic and responsive labour market**

Central governments are no longer the sole provider of territorial policies. Shrinking areas require a coherent policy response from national and local governments to maintain existing jobs, generate new employment and protect vulnerable households. National, regional and local levels of government need to align their various strategies in order to develop a consistent direction to meet development objectives, leverage economies of scale and reap the dividends of joint initiatives that share knowledge and reduce operational overheads. Improving the policy coherence between national and local levels of government (vertically) and co-ordination across different ministries (horizontally) can significantly increase the effectiveness of programme delivery and the quality of the services provided. The interests of the national and local governments may not always be in harmony. National considerations, such as increased gross domestic product or improved foreign exchange flows, may not always mesh with local government’s concerns, such as local job creation, infrastructure development and social protection programmes. National and local governments need to harmonise development objectives (e.g. enhanced rural access) to avoid redundant programmes and heighten the effectiveness of programmes occupying shared geographic and technical space (e.g. environment). Identification of conflicting national-local objectives (e.g. the planning of rural roads for extractive industries rather than for improving market access of remote rural producers) can result in a national-local dialogue that can lead to the development of an innovative win-win situation (OECD/ILO, 2011).
Examples of specific measures are:

a) Encourage horizontal integration and vertical alignment of policies by promoting co-operative frameworks and regional co-ordinated approaches, such as territorial employment pacts, which are innovative networks that provide an institutional framework and commitment for regional networks targeting employment strategies.

With the population ageing, inactivity of older age groups in the workplace will increase the strain on social security and pension systems. According to European Union and OECD (2012), “few older people are involved in entrepreneurship, particularly women, and their enterprises tend to be less growth oriented than firms of younger entrepreneurs. [However] … there is a growing population of healthy older people with the skills, financial resources and time available to contribute to economic activity through extending their working lives, including through entrepreneurship”. According to a 2009 Eurobarometer Survey on entrepreneurship, 68.2% of prime aged (20-49 years) people never thought about starting a business and this figure jumped to 86.2% of older people (50-64 years old). While 14.6% of prime aged people were thinking about starting a business, this dropped significantly to only 3.6% of older people. The percent of people involved in early stage start-up activities is 17.3% of prime aged people and 10.3% of older people. Therefore, “…..the older an individual gets, the less likely they are to take action on their entrepreneurial intention because they have less time left to enjoy the benefits that the business generates. This suggests that the bulk of those seriously considering starting a business has already taken action and that policy should focus on increasing interest and awareness about entrepreneurship in the third age before people get there” (OECD, 2011 and Martinez-Fernandez et al. 2011).

b) Promote entrepreneurship and workplace flexibility by designing strategies for new work ecologies incubators, entrepreneurship education, skills development in SMEs and the development of senior entrepreneurs.

Regional labour markets require a skilled workforce. A decrease in the potential labour force does not automatically result in lower unemployment, but simply a greater mismatch between labour supply and demand (Verwest and van Dam, 2010; Verwest, 2011). Labour shortages for any particular sector are not only the result of demographic changes, but also of educational and career choices made by young people (Verwest and van Dam, 2010; SER, 2011). Education should be aimed at encouraging student participation and linkages within the regional economy. There is a need to stimulate businesses and knowledge institutes to develop joint educational programmes (Verwest and van Dam, 2010), so that the competencies of the available labour force better match current and future labour requirements. Developing widely available valid and reliable information, and career counselling to guide occupational choices, are also needed, such as an entrepreneurship summer school (London Business School, n.d.). To enable this free flow of information, there is a need for better co-operation between employers, educational institutes, trade unions and local authorities. Universities should adjust their learning programmes to meet the regional needs of the economy, increase international student attendance and encourage a family-friendly environment.

c) Promote targeted and better connections between education and skills development and regional labour markets (local skills ecosystem) for job preparation and creation. Re-orient vocational education and training organisations to new skills ecologies.

**Invest in place-based development and foster resilient communities**

Demographic changes on national, regional and local scales have important impacts on the labour market, including an ageing workforce, labour shortages and skills gaps, but also provide opportunities in the “silver economy” (the ecosystem of services for the older customer). The growing demand for labour
intensive personal services is not able to be managed at the national level by increasing the supply of adequate labour. This applies even more forcefully to regional markets: the relatively large increases in personal and health services in declining and ageing regions have to be met by adjustments in the local and regional labour market. Promoting workforce mobility, flexibility and cross-border collaboration will help support local businesses and economies and will stimulate key economic sectors and encourage entrepreneurship and business opportunities. Places have value and social capital as well as a “right to survive” and investment in life-style infrastructure can contribute to increasing their resilience.

a) Develop new opportunities and innovation in regional/local labour markets, targeting new sources of growth such as cross-border programmes, workforce mobility, clustering, new economic growth areas in health and silver work ecologies, entrepreneurship and business opportunities.

Another reason for leaving the workplace is often a person’s state of health. The need for new services in areas such as education, entertainment/leisure, information technology, financial services and transport can encourage longer, healthier and more active lifestyles, by creating family-friendly environments and active policies to improve living opportunities for the elderly. The ageing of the population structure will increase demand on new social services and the health sector. The issue becomes greater within territorial areas with shrinking populations, because services will become more expensive for consumers due to an increased demand and a decreased labour supply (Euwals et al., 2009; Verwest and Van Dam, 2010). The forms of delivery of care services should have an emphasis on flexibility and financial effectiveness, and promote opportunities for some services to be delivered by social enterprises.

b) Invest in early healthy lifestyles and active communities by incorporating new approaches to the development of infrastructure and the provision of services to the society, designed to reduce medical costs in later life, such as investment in community-based agencies for health and social support, facilitating non-profit/voluntary efforts and fostering local resource sharing.

c) Invest in healthy and prosperous communities to maintain and increase the vitality of places and encourage personal networks and/or attachments, which stimulates the business environment and improves quality of life, entrepreneurship and innovation. All are factors that can foster resilience in shrinking areas. Investments can be in the form of institutional assets that are located in shrinking places and that can act as “magnet infrastructure” (e.g. a new educational institution or a cultural landmark) and digital media in promoting inter-generational (alumni) and social networks. Good communities nurture entrepreneurship and healthy life-style living conditions.
### Summary of the main recommendations in achieving growth that is inter-generational, co-operative and place-based

<table>
<thead>
<tr>
<th>Policy focus</th>
<th>Key policy challenges for demographic change</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inter-generational responses to labour market challenges</strong></td>
<td><strong>Co-operative frameworks towards a dynamic and responsive labour market</strong></td>
</tr>
<tr>
<td>National</td>
<td></td>
</tr>
<tr>
<td>a. Continue the efforts towards encouraging work and activation of older workers and extension of working life.</td>
<td></td>
</tr>
<tr>
<td>b. Invest in healthy lifestyles and active communities.</td>
<td></td>
</tr>
<tr>
<td>c. Provide an overall co-ordinated policy response.</td>
<td></td>
</tr>
<tr>
<td>d. Design programmes and initiatives that have “territoriality” as a key aspect for implementation.</td>
<td></td>
</tr>
<tr>
<td>Regional</td>
<td></td>
</tr>
<tr>
<td>e. Foster lifelong learning as an education and private sector approach connecting education and skills development and regional labour markets.</td>
<td></td>
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<tr>
<td>f. Promote entrepreneurship and workplace flexibility.</td>
<td></td>
</tr>
<tr>
<td>g. Integrate social and employment programmes.</td>
<td></td>
</tr>
<tr>
<td>h. Define a regional innovation strategy that provides provincial facilitation and regional networking.</td>
<td></td>
</tr>
<tr>
<td>Local</td>
<td></td>
</tr>
<tr>
<td>i. Develop new opportunities and innovation in local labour markets.</td>
<td></td>
</tr>
<tr>
<td>j. Invest in community-based agencies for health and social support.</td>
<td></td>
</tr>
<tr>
<td>k. Facilitate non-profit/voluntary efforts to build vital and resilient places.</td>
<td></td>
</tr>
<tr>
<td>l. Foster local resource sharing among schools, local government and other local stakeholders.</td>
<td></td>
</tr>
</tbody>
</table>

### NOTES

i. A whole-of-government approach is defined as “one where a government actively uses formal and/or informal networks across the different agencies within that government to co-ordinate the design and implementation of the range of interventions that the government’s agencies will be making in order to increase the effectiveness of those interventions in achieving the desired objectives” (OECD, 2008).

ii. Job carving is a term for customising job duties, such as creating specialist job roles that free up the time of specialist staff or swapping job duties to make the most of individual skills ([http://base-uk.org/employers-recruitment-jobcarving](http://base-uk.org/employers-recruitment-jobcarving)).

iii. Clusters are geographic concentrations of interconnected companies, specialised suppliers, service providers, firms in related sectors and related institutions (e.g. universities, R&D institutions, trade associations etc.) in fields that compete but also co-operate (Porter, 1998).
References

Commissie Bakker (2008), “Naar een toekomst die werkt. Hoofdlijnen Advies Commissie Arbeidsparticipatie [in Dutch] [Towards a future that works. Highlights of the Advisory Committee on Labour Participation]”, commissioned by the Minister of Social Affairs and Employment, Commissie Arbeidsparticipatie, Rotterdam.


SER (2011), Bevolkingskrimp benoemen en benutten [in Dutch] [Name and utilise population decline], SER, The Hague.


CHAPTER 6:

CHINA’S RESPONSE TO ITS AGEING POPULATION

Today, China is still the most populous country in the world. By the end of 2011, China’s population reached 1.35 billion, accounting for 19.2% of the total world population. However, China is now experiencing a changing population structure as a result of falling birth rates and the start of an ageing population. This chapter discusses China current level of preparedness for its population ageing and a case study of Beijing on the current and potential need of the elderly and the supply of old-age people oriented products and services.
Today, the People’s Republic of China is still the most populous country in the world. By the end of 2011, China’s population had reached 1.35 billion, accounting for 19.2% of the total world population. Over the past three decades, curbing the excessive population growth has been the priority in the implementation of population-related policies. However, the results of the sixth national census conducted in 2010 reveal that China’s demographic situation has witnessed fundamental changes over the past three decades: from 2000 to 2010, the average annual growth rate of the population was only 0.57%, far lower than the 1.07% in the previous decade. Meanwhile, the population structure has also changed considerably: from the second national census in 1982 to the sixth one in 2010; the proportion of children aged 0-14 in the total population fell from 33.6% to 16.6%; that of elderly people aged above 60 rose from 7.6% to 13.3%; and those aged above 65 increased from 4.9% to 8.9%. This shift in the population structure indicates that the falling birth rates and ageing population that beset developed countries have started to affect China. Population ageing has been and will continue to pose serious challenges to the country’s socio-economic sustainability.

Although China has witnessed the coming of an ageing society since 2000, it is still at the starting point in addressing population ageing related challenges. This chapter aims at exploring the current extent to which China has been prepared for its population ageing. Section 1 provides an analysis of China’s recent demographic changes. Section 2 gives an analysis of the changing age structure in China’s population. Section 3 presents China’s preparations for its population ageing. Section 4, based on the case study of Beijing, gives an analysis on the current and potential needs of the elderly and the supply of old-age people oriented products and services. Section 5 provides policy recommendations for China to push forward its preparations in dealing with population ageing.

**Recent demographic changes in China**

In the early 1980s, the family planning policy, which centers on the one-child policy, became a basic national policy of China. Over the three decades since then, this policy has not only changed the course of China’s population transition but has also had a tremendous impact on China’s socio-economic development. After the change from a high fertility rate to a low fertility rate, the situation of China’s population is significantly different from what it was more than 30 years ago. The major changes that have occurred over the past three decades are summarised below (China Development Research Foundation, 2012).

**Towards negative population growth**

Although China remains the most populous country in the world, the share of its population in the world population has dropped from a peak of 22.7% in 1974 to 19.2% in 2011 (Table 6.1). The current population growth in China is very slow: the Chinese population only increased by 73.9 million between 2000 and 2010, at an annual rate of 0.57%, while the world population grew at more than twice that speed during the same period (China Development Research Foundation, 2012).
Table 6.1. China’s population and the world population

<table>
<thead>
<tr>
<th>Year</th>
<th>World population</th>
<th>China’s population</th>
<th>Proportion of China’s population (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1959</td>
<td>30</td>
<td>6.62</td>
<td>22.07</td>
</tr>
<tr>
<td>1974</td>
<td>40</td>
<td>9.09</td>
<td>22.73</td>
</tr>
<tr>
<td>1987</td>
<td>50</td>
<td>10.93</td>
<td>21.86</td>
</tr>
<tr>
<td>1999</td>
<td>60</td>
<td>12.59</td>
<td>20.98</td>
</tr>
<tr>
<td>2011</td>
<td>70</td>
<td>13.47</td>
<td>19.24</td>
</tr>
</tbody>
</table>

Note: The Chinese population is for the end of the respective years.


If the current low fertility rate continues, China’s population will turn to negative growth after 2030 and, by the end of the 21st century, it is predicted to decrease to 1086 million (United Nations, 2013). Although China’s population in 2100 will be as large as it was in 1985, the age structure will be fundamentally different. Of the 1062 million Chinese citizens in 1985, people aged 0-14 accounted for 30.9% while those over 65 represented only 5.6%; of the 1086 million in 2100, the proportion of the former will have dropped to 15.2% while that of the latter will have risen to 28.2%, which means a seriously aged population (Figure 6.1) (United Nations, 2013).

Figure 6.1. China’s population growth (1950-2100)


Approaching lowest-low fertility rate

Despite widespread controversy over the quality of birth statistics, the low birth rate in China is already an indisputable fact. An estimation directly based on the data of the sixth national census gives China’s total fertility rate (TFR) as 1.18; considering the under-reporting of births, the current TFR is probably below 1.5.
In its reports published in the past few years, the United Nations has lowered its estimation of China’s birth rate. The data published in *World Population Prospects: the 2010 Revision* (United Nations, 2011a) and *World Fertility Policies 2011* (United Nations, 2011b) show that the TFR of the world in 2005-10 was 2.5; the TFR of developed countries was 1.7; that of developing countries was 2.7; that of the least developed countries was 4.4; and that of China was 1.6 (Figure 6.2). Some researchers believe that China’s actual TFR is even lower (Guo, 2012; Cai, 2012). All these indicate that China’s fertility rate is not only below the average of developed countries, but also approaching lowest-low fertility rate.\(^i\)

**Figure 6.2.** Change of fertility rate: Comparison between China and other countries (1970-2010)


**Imbalanced population pyramid**

As the result of the rapid decline of fertility rate, the sustained low fertility level and the prolonging of lifespan, the rapidity of ageing and the decrease of children have brought about a significant change to the form of China’s population pyramid (Figure 6.3). According to the sixth national census in 2010, the proportion of children was 16.6% and that of people aged 65 or over was 8.9%; in contrast, during the third census in 1982, the numbers were 33.6% and 4.9% respectively (NBS, 2011). Such an about-change has inevitably led to a structural consequence: the decrease of the number of new labour and the increase of the number of elderly people within society. The former will bring about a significant turn in the supply and demand of labour, while the latter will make ageing become “the order of the day in Chinese society”. Over the past three decades, population changes have created an abundant demographic dividend for China’s economic growth. However, with the acceleration of population ageing, the decline of the dependency ratio came to an end in 2011, which means the disappearance of the demographic dividend.
Massive population migration

China is experiencing the largest migration of population in human history. The results of the sixth national census show that China has a floating population of 221 million. The 2011 “Report on the Development of China’s Floating Population” released by the National Population and Family Planning Commission reveals that, over the past three years, the floating population has grown by 10 million annually (NPFPC, 2011).
The massive movement of population has become one of the most important population phenomena with an impact on China’s socio-economic development. The predominant trend is for the population to flow from the countryside to cities and from the central and western regions to the eastern region. The highly dynamic population movement is not only changing the distribution of China’s population in rural and urban areas, but is also influencing its regional distribution. In particular, since the beginning of the 21st century, a significant change has taken place in China’s population map.

China’s rural-urban distribution of the population has undergone a historic change. By the end of 2011, China’s urban population had accounted for 51.3% of its total population, which means that China is no longer a country with a predominantly rural population. The rate increased by one percent each year between 1990 and 2000, and has risen by 1.3 percentage points each year in the past decade. By the end of 2012, 52.3% of China’s population was living in urban areas. Given the very low natural growth rate of the urban population, there are three major ways for the Chinese population to be urbanised: i) the migration of people from rural areas to urban ones; ii) the expansion of cities; and iii) the formation of new towns and cities. Among these factors, the first is currently the most important factor contributing to the rapid urbanisation. The enormous outflow of young members from villages has accelerated the population structural change in China’s rural areas. As a result, rural areas in China are facing significant challenges in dealing with population ageing.

In addition, there has been a further concentration of population toward the eastern region. In 2010, the people living in the eastern region accounted for 38.0% of the permanent residents across China, up 2.41 percentage points from 2000. Those who lived in the central region represented 26.8%, marking a drop of 1.08 percentage points. Those who lived in the western region represented 27.0%, marking a drop of 1.11 percentage points. Those who lived in the northeast represented 8.2%, marking a drop of 0.22 percentage point (NBS, 2011). In the eastern region, the fastest population growth has taken place in Guangdong, Shanghai, Beijing, Zhejiang and Tianjin. The Pearl River Delta, the Yangtze River Delta and the Beijing-Tianjin region have become the regions with the highest density of population and cities in China. In contrast, the numbers of permanent residents in the central and western provinces of Hubei, Sichuan, Guizhou, Anhui and Gansu have decreased (Figure 6.4).

**Figure 6.4. Increase in the number of permanent residents in different parts of China (2000-10)**

![Figure 6.4. Increase in the number of permanent residents in different parts of China (2000-10)](image)

Enormous migration has stimulated the industrial transfer of labour and economic growth, and contributed to China’s social change and institutional reform. However, the conflict between the massive flow of population and the current social welfare system based on the household registration system has led to a series of social problems, such as tens of millions of “left-behind children” and “migrant children”, the unfair distribution of public service resources and troubles with the social security system. Most migrants have yet to enjoy equal rights in comparison with local residents in terms of education, housing and healthcare. In this sense, China is in the process of incomplete urbanisation or “semi-urbanisation”.

“Hollowing-out” of rural areas

Since the 1990s, while providing cities with abundant labour, the massive outflow of young adults has led to the “hollowing-out” of rural areas. The hollowing-out of rural areas has seriously affected rural productivity, causing the waste of land resources and the ageing of rural labour. China has a total of 640,000 administrative villages and 3.3 million natural ones, with a housing area of 182 m³ to each rural person, way beyond the state-prescribed upper limit of 150 m³ for per capita land for construction in rural areas. Scholars have estimated that a net increase of about 13% in arable land across the country can be achieved through improving and re-cultivating scattered, abandoned and idle rural land for construction (including homesteads), building residential areas, and providing supporting public service facilities (Yansui Liu et al., 2010).

The massive outflow of young adults has led to the ageing of rural labour and a sharp decline in the dynamism of rural development.

Spreading shortage of migrant workers

Labour surplus has always been an important precondition for the Chinese government in the formulation of socio-economic development policies, and it had always been believed that there would be an infinite supply of surplus rural labour. In the spring of 2004, however, a shortage of migrant workers began to emerge along the southeast coast. In the years that followed, such shortage not only grew worse in the Pearl River Delta and the Yangtze River Delta, but it began to spread to the central and western regions as well. According to estimations in relevant research, rural labour represented 67.3% of all employed Chinese citizens; migrant workers accounted for 41.3% of all employed people in towns and cities, and rural labour accounted for 51.4% of all non-agricultural employees (CDRF, 2012). Despite the significant disparity in the estimations of the quantity of surplus rural labour, today most Chinese researchers agree on the following three important facts:

1. Transferrable rural labour is declining. Of those who have not yet left their native places to find work, about 30 million, or 40% of the transferrable labour, are still likely to do so.

5. The number of young adults in rural areas is declining, with those aged under 30 representing less than quarter of all rural labour.

6. The quantity of new rural labour is declining. China’s labour is undergoing a historic change in terms of the relationship between supply and demand, and the infinite supply of surplus rural labour is ending.

The one-child generation

In 1980, the one-child policy was introduced in China at the national level. The implementation of the one-child policy has given rise to two population groups: the “one-child” group and the group of their parents. A generation formed by “one-child” is a unique population phenomenon in China. Since the
adoption of the one-child policy in 1980, the total number of “one-child” families has reached 120-130 million, 70% of them having been born in cities. This means that the number of “one-child” and their parents has reached 360-390 million (CDRF, 2012).

Since the very beginning, the “one-child” as a special group has had an impact on many aspects of Chinese society and the present and future of China. Negative impact from indulgence has always drawn universal attention from society and constituted a factor not to be neglected in education and population quality. Since the beginning of the 21st century, those “one-child”, known as “little emperors”, have reached working age and marriageable age. As a result, their influence has begun to expand from family and education to wider socio-economic areas.

In addition, the existence of the “one-child group” has brought about a series of changes in family structure, relations and way of life. Some problems have aroused general concern in society, such as the family structure, inter-generational relationships, and the impact on familial provision for the elderly and related support reflected in the “four-two-one” structure. A “four-two-one” family refers to an inverted pyramidal family structure made up of four grandparents, one couple and their only child. Another issue of particular concern is that the disability or death of an only child can inflict enormous pain and incurable trauma on the parents.

Of the above seven demographic changes, some are directly related to the family planning policy while others are due to the urban-rural dichotomy resulting from the household registration system. Awareness of these changes is indispensable in an analysis of China’s current population situation.

Through the above analysis, it is obvious that there has been a fundamental change in the major challenges confronting China’s population. Today, the imbalance of population structure, quality and distribution has replaced excessive growth as the major population problem. Among the current challenges, population ageing is becoming the most serious one.

**Age structure changes and population ageing in China**

**The changing age structure in China’s population**

Since the 1970s, as the family planning policy is gradually implemented, the TFR has seen a significant decrease. It fell from 5.8 in 1970 to 2.3 in 1980, 2.1 and even lower in 1992, 1.8 in 2000 and below 1.5 in 2010 (Figure 6.5). Along with the declining fertility rate is the prolonged life expectancy, which reached 74.8 years in 2010. Today, China has entered the third stage of demographic transition featuring low birth and death rates (CDRF, 2012).
During both the slow and upcoming negative growth of the total population, the number of children (0-14) has been on the decline, the working-age population (15-64) has shown a downward trend, and the elderly population (65+) has been growing fast (Figure 6.6).
With the acceleration of population ageing and the slowing growth of working-age population, China’s total dependency ratio bottomed out at 0.38 in 2011, and began to rise slowly afterwards. It is expected to reach 0.4 in 2020 and exceed 0.5 in 2033 (CDRF, 2012). According to the United Nations’ projections (2013), without a substantial rebound in fertility rate, China’s dependency ratio will continue to grow even after 2050, and reach up to 0.8 in 2100. That means every four working people will have to support at least two aged people and one child by 2100 (Figure 6.7).

The changes in the sizes of the three age groups in both absolute and relative terms are leading China’s age structure in an undesirable direction, and will ultimately inflict a negative impact on the sustainability of the country’s economic and social development.

**Figure 6.7. China’s dependency ratios**

![Dependency Ratios Graph](chart)

Population ageing in China

China is one of the fastest ageing countries in the world. At the end of 2011, 9.1% of the population in the Chinese mainland were 65 or over. Since 2000, two major changes have occurred in population ageing: first, ageing has accelerated; and second, the speed is higher than expected. The proportion of population aged 65 or over is likely to exceed 15% in 2027, 20% in 2035 and 24% in 2050, approaching the level in more developed regions (Figure 6.8) (United Nations, 2013).
As baby boomers of the 1950-60s gradually come into their old age, China’s older population has been experiencing a rapid increase. In 2011, 123 million people in China were aged 65 or over. As predicted by the United Nations (2013), the figure will exceed 200 million in 2026, 300 million in 2038 and 330 million in 2050, 90 million of whom will be aged 80 or over (Figure 6.9).
Population ageing has become a common threat for most developed countries. However, compared with developed economies, China may face a bigger challenge given the fact that it is getting old before getting rich. From the perspective of economic growth, getting old before getting rich has some important implications. On the one hand, a smaller increase of the working-age population and fast economic growth has led to labour shortage, and rising wages. Rising labour costs undermine the comparative advantage of labour-intensive industries, making it imperative to upgrade the industrial structure towards capital- and technology-intensive industries. On the other hand, China’s per capita income has just reached the upper-middle level, and it has not yet gained notable advantage in physical capital. In addition, it still lags far behind developed countries in terms of labour quality and the development of science and technology. Therefore, it has little comparative advantage in capital- and technology-intensive industries. To some extent, it is justifiable to summarise the potential negative impacts of population ageing on economic growth as follows:

1. China will lose the opportunity of overtaking developed countries as a late bloomer.
2. China will lose its advantage over other developing countries that still enjoy a demographic dividend.
3. China has not yet gained the advantage in technology and innovation of other developed countries.

In other words, China is losing its advantages over both high-income and low-income countries, which makes it more imperative to change the pattern of China’s economic development.

Population ageing affects not only economic growth but also has a far-reaching influence on social development. The size of China’s older population is growing. Elderly people are living longer and their share in the total population is on the rise. Population ageing increases a family’s burden of taking care of elderly people. It has been a tradition in China for most old people to live with and be looked after by their children. However, with the change of family structure and society development, particularly as the parents of the one-child generation enters old age, more and more families will face a shortage of “manpower” for taking care of the elderly. According to the 2010 survey on the urban and rural older population in China, 22.7% of elderly people in China were unable, or not fully able to, take care of themselves, and had to rely on other family members. Attending to the elderly constrains the labour participation of the people undertaking the responsibility, especially women. According to a 2005 survey on the factors influencing the health of elderly people, respondents looking after their parents worked 1.4 hours less every week, and the figure was 7 hours for females living with their parents (Zeng et al., 2010).

In addition, population ageing changes the inter-generational relationships. With a low fertility rate, the traditional mechanism of family support for the aged has been weakened and a social support system is in place to take that role. The inter-generational transfer of wealth and public resources causes the change of inter-generational relationships. In the context of a soaring proportion of one-child families, accelerating population ageing and social transformation, inter-generational relationships will become more complex in China.

However, China is not yet prepared for the oncoming ageing society:

- First, institutional arrangements lag behind. Various systems, including the social pension system, the medical insurance system, the retirement system, the personal income tax system and other related social policies and public service systems, are all far from meeting the needs of an ageing society. From this perspective, the tension between ageing and social development can be described as “ageing before adequate development”. In other worlds, China is under-prepared for
an ageing society. However, population ageing will be a hard fact that China has to face, and the building and reform of all systems concerning people’s well-being should be based on this fact.

- Second, China is not prepared financially. On the one hand, public spending on old-age support is very limited. Only a small portion of public spending is on old-age pensions and the pension system covers only a small population. A considerable proportion of aged people are paid a small pension. In 2011, the pension replacement rate of enterprises was merely 42.9% and the average pension in rural areas was only CNY 55 per month. On the other hand, the current social pension system faces a potential crisis: pension funds in nearly half of the provinces in China cannot make ends meet (Zheng, 2012), and the returns on pension investment are low. Below 2%, the average annual rate of return is even lower than the inflation rate, which means that pensions are actually shrinking. In the meantime, however, the older population is increasing, and the numbers of those covered by the pension system will accelerate. This means that there will be a sharp increase in the number of people qualified for drawing a pension, which will be a hard blow to China’s social pension system.

- Third, China’s public service system is not yet developed. Currently, the needs of the elderly are not taken into account in urban planning, infrastructure construction, etc., making access to public services most limited for elderly people. In rural areas, in particular, as most young people are not at home and there are almost no facilities for the aged, the elderly face greater challenges in their daily life. Therefore, China still has a long way to go to achieve active and healthy ageing that is advocated by the international community. It may start with building an equitable and sound public service system catering to the needs of an ageing society.

**Implications of population ageing on the labour market**

China’s fertility rate started to plummet in the 1970s and stayed at a low level for a long time. The low birth rate is sure to exert its impact on the labour market, as evidenced by the declining size of the working-age population. China is expected to experience the following changes to the working-age population in the future.

First, both the size and the proportion of the working-age population have reached a turning point. At the end of 2011, the proportion of the working-age population was 74.4%, 0.1 percentage point lower than in 2010. At the end of 2012, the working-age population was 937 million, 3.5 million fewer than 2011. Those decreases, though minor, are a sign that both the absolute number and the share of working-age population started to and will continue to fall. In 2050, the proportion will be below 60%, the level it was in 1980. However, in 1980, working-age people were mainly striving to raise children, while after 2035, the dependent population will mainly be elderly people. According to the predictions of China Development Research Foundation (CDRF), China’s working-age population (aged 15-64) will increase at an average annual rate of 0.23% from 2011 to 2016, reaching the peak of 998 million in 2016, and then decrease, reaching 745 million in 2050, the level it was at the end of the 1980s (Figure 6.10) (CDRF, 2012).
Second, the number of people entering the labour force will decrease sharply. Due to the rapid decline and low fertility rate, the number of newcomers to the labour force has substantially decreased in China. The population aged 18-22 was 124 million in 2008, falling to 108 million in 2011, and will decrease by 7 million annually in the coming decade. In 2050, there will only be half the current number of newcomers to the labour force (Figure 6.11) (CDRF, 2012). The change in the number of newcomers to the labour force, the most active part of a country’s human resources, has an important influence on the labour supply and demand as well as the country’s economic development.
Third, the labour force is ageing rapidly. Comparing the youngest population group aged under 30 and the oldest group aged 51-64, there is a clear ageing trend. The proportion of the youngest group is likely to keep decreasing over the next 40 years, while that of the oldest group will increase. In 2020, the oldest group will have a larger share than the youngest group. In 2050, the proportion of the youngest group in the total working-age population will be less than one fourth, while that of the oldest group will be near 40% (Figure 6.12) (CDRF, 2012).

![Figure 6.12. Labour force ageing in China](image)


For a long time, policy makers’ focus has been on the size of the labour force, while the sharp decrease in the number of newcomers to the labour force and fast ageing have been given less attention than they deserve. Such new trends in the labour market herald new challenges for labour market policy and system security.

**China’s preparations for its population ageing**

Along with population ageing is the huge demand for the development of the elderly care industry or what is called the “silver industry and white economy”. According to the 2005 Survey on Health Influencing Factors of the National Elderly Population, nearly 18% of the elderly need external assistance in their daily life and most of these in need do not have an independent source of income to support themselves. Sixty-four percent of them depend completely on external services for care (Yun et al., 2010). If the living capabilities of the elderly population continued to improve at an annual rate of 1% as they did between 1992 and 2002 (Gu and Zeng, 2006), it was estimated that the number of those requiring daily care would reach 15-20 million in 2005. Due to the differences between urban and rural areas, in terms of the disability adjusted life year, the medical care level and the social welfare level, the urban elderly population needs to pay a considerably more than their rural counterparts for the daily care during the rest of their lives. Based on transition probability calculations of care costs, mortality and self-care capability of the elderly population at different ages in 2005, an elderly person living in an urban area needs to pay a direct expense of CNY 9,200 every year for daily care for the rest of his life, while for an elderly person living in the countryside, the figure is CNY 4,200 (Cheng et al., 2010). The demands of the Chinese elderly population for social care, medical care, services and daily necessities call for a more rapid development of the silver industry and the implementation of relevant policies.
The current status of the silver and white industries

China has enacted a series of policies to strengthen community construction, provide better services to the elderly and improve their living environment. Such efforts have also been applied to rural areas. During the 11th Five-Year Plan period (2006-10), the number of community service centres nationwide reached 175,000 and that of urban convenience outlets reached 693,000. Nearly half of the urban communities and 80% of towns and villages launched aged service facilities. There was a significant increase in the number of beds for the elderly in nursing homes. There were 38,060 nursing homes nationwide, providing a total of 2,662 million beds for 2,109 million elderly people. The number of beds and the number of elderly people served had risen by 62% and 71%, respectively over the end of the Tenth Five-Year Plan period. Of all the nursing homes, 4,141 were formally registered and privately operated, accounting for 10.6% of the national total. Such private nursing homes provided 412,000 beds, or 15% of the national total for 238,000 elderly people, or 11% of all that were cared in nursing homes. The bed utilisation rate of such private nursing homes was 57.8% (China National Committee on Aging, 2011). China has issued a series of policies to promote the development of national nursing homes, including the “Recommendations on Accelerating Socialisation of Social Welfare”, the “Recommendations on Accelerating the Development of Old-Age Services”, the “Assessment Standards on State-level Nursing Homes”, and the “Code of Conduct for Social Welfare Institutions”. The professional and standard development of elderly care services has been further advanced by the efforts of full-time social workers and volunteers.

In spite of the above efforts, the rapid growth of the ageing population, the seriousness of senility, the lack of effective elderly care, and the underdeveloped material conditions pose many challenges to the general cause of providing for the elderly. Those challenges can be summarised as:

- First, the large gap between different regions and between rural and urban areas in terms of social and economic development leads to apparently imbalanced development of the old-age service system. Some basic social security programmes have quite a narrow coverage in rural and less-developed areas.

- Second, the increase of “empty nests” grows more serious for the elderly population and the traditional family support mode faces challenges. The present mode of elderly care, medical care and services for the elderly falls short in terms of economic support, daily care and mental solace.

- Third, the continuing increase of life expectancy brings up the number of the oldest old (80+), who are more likely to develop disabilities. This brings new conditions and issues to the content and development pattern of the old-age service system, with the high expenditure on daily care being a very prominent issue.

The accelerated development of the silver and white industries not only requires stronger governmental and social support but also needs to draw support from the market. The creation of a second demographic dividend period once the first one comes to an end calls for rapid development of the silver and white industries and therefore, provides tremendous business opportunities.

Prospects of the silver and white industries

Population ageing combined with an increasing number of “empty nest” families caused by a low birth rate creates a tremendous market demand for elderly care services. The demand has multiple layers and covers many different aspects. Apparently, the traditional cooking and cleaning services cannot fully meet the needs of the elderly, who now expect mental solace, emotional exchanges, interactive entertainment as well as financial and medical consultation. The comparatively lower self-care capability
and worse health conditions of the oldest old provide another huge business opportunity for the healthcare industry.

Many studies show that besides such common health issues as cognitive disorders and organ diseases during the ageing process, elderly people also suffer from a much higher two-week prevalence rate and chronic disease prevalence rate than people of other age groups. This will first lead to a substantial increase in their consumption of health products and drugs, including anticancer drugs, cardiovascular drugs, as well as anti-obesity drugs, which are the three most needed types of drugs for the elderly. Secondly, the serious shortage of nursing personnel at present makes it difficult to fulfill the care needs of the elderly. Thirdly, medical equipment and devices that can improve the self-care capability and quality of life of the elderly will become increasingly popular, such as those that can monitor the physical condition of the elderly or make emergency calls.

The comparatively high mortality risks of the elderly also provide development opportunities for matchmaking, marriage counselling, legal advice and other related industries. The well-educated, high-income elderly group calls for the development of elderly entertainment and financial and insurance consulting industries. During recent years, China’s elderly tourist industry has seen promising growth but still cannot fully meet the needs of the elderly for leisure tours. There are very few entertainment centres or clubs specially designed for the elderly, which also holds market prospects.

Among the many industries related to population ageing, the daily necessities (products for daily use) industry sees a steady increase in its market capacity. Apart from the traditional necessities, such as clothes, crutches, reading glasses, tooth sockets, hearing aids, urinals and diapers, cleverly designed products are also much favoured on the market, which can significantly improve the self-care capability and quality of life of the elderly. Such products include cell phones with a big screen and a big keyboard which are suitable for the elderly population with poor eyesight, shaking hands and a lower educational attainment, or crutches that are attached to a stool and easy to fold, making it easy for the elderly to sit down and stand up. Even in the traditional old-age service industry, special shopping malls and e-commerce also represent significant business opportunities.

Because of the many one-child and childless families, the number of “empty nest” families and elderly people living alone has increased year by year. This is further reflected by the more urgent demand for self-care products for the elderly. According to data provided by China National Committee on Ageing, while the market of the elderly had a CNY 10 trillion demand in 2010, less than 10% was met.

Statistics of the 2005 Health Survey of the Elderly Population of the Four Municipalities Directly under the Central Government show that there have been significant changes in the elderly population’s choice of support mode. Although 58.3% of the urban elderly population still prefers to live with their children, quite a number of the elderly choose to live alone, accounting for 39% (Shanghai Securities News, 2011) of the total. With an increasing number of elderly people choosing not to live with their children, the huge market demand for high-grade residences has been created thanks to the significant increase in the income and savings of the elderly population and the lack of elderly housing projects on the market.

Policy requirement for the development of the silver and white industries

Misconceptions have always existed in the approach of governments, enterprises and families to the old-age service system. Due to the difficulty in grasping the tendency and long-term influences of the ageing process in the first place, relevant government departments started to pay attention to the issue at a rather late stage and many local governments even considered it a burden or a marginal issue instead of an industry with huge potential. Enterprises habitually associate the old-age service business with a long cycle
of investment return, low profit and high risk, see no business opportunities, and are reluctant in developing products and exploring market potentials. Traditionally, a large proportion of the elderly population tends to refrain from adding burden to their children, which is typically reflected in their reluctance to seek medical treatment when ill. The lack of consumption desires has greatly reduced the market potential. Therefore, the government needs to properly handle the relation between the profit-making nature and the public nature of the elderly care industry and create greater market incentives through institutional measures (Lu et al., 2008).

Besides fragmented policies for the elderly, China lacks a policy system that provides support for investment and consumption in this area from the many aspects of venues, loans, taxation and subsidies and encourages the inflow of private capital. The comparatively long cycle in obtaining returns on investment and the unsatisfactory returns at the early and medium stages add to the difficulty in developing the industry, where the reluctance of manufacturers to produce and traders to sell is coupled by the inability of the consumers to buy such products. Take the reluctance of real estate developers to develop housing projects for the elderly, for example. There are no specific policies regarding such crucial issues as whether the land used is operational or not or whether land should be transferred through negotiation or bidding. Besides, some systems related to the elderly population still need improvement, such as the elderly care system, the medical care system and the long-term care insurance system, etc. which makes it difficult for the elderly to consume without any worries for the future. This poses another challenge to the development of the old-age service industry in China.

Another hampering factor is in the lack of uniform industry standards, as well as product and service standards, and an industry access system in the market for the elderly. Constraints are apparent in two aspects. First, the inability to effectively protect their rights and meet their varied consumption demands hurt the elderly population’s enthusiasm to consume. Second, although the ageing process has created considerable business opportunities, the lack of industrial standards and clear policy directions can easily lead to high business risks and market disorder and has therefore undermined the confidence of private companies to do business in this field.

To address the above-mentioned problems, China needs to accelerate strategic planning and promote the sound and rapid development of the silver industry systematically. Pillar sectors should be identified based on the objective needs of the elderly population and the maturity of the market. Priority should be given to the development of pillar sectors, through which the industry may be advanced as a whole. Relevant public policies should be improved to further regulate market practices and enhance self-discipline of the industry so that a shared prosperity may be achieved for all sections of the industry. The government should dutifully fulfill its responsibilities in providing basic public services by establishing a stable support system for the elderly, such as:

- managing the difficulties in caring for the elderly in urban areas who have no ability to work, no source of income, and no legal support; and those with a disability and no family
- greatly increasing the number of nursing homes, beds and caregivers and ultimately developing an elderly care and service system that is supported by enhanced investment and services
- focus on strengthening family support, expanding community support, nursing home support and promoting the development of the industry of old-age service.

**The Beijing challenge**

Faced with the increasing ageing of the population, it is urgent for the Chinese government to take prompt actions. However, before that, it is necessary to grasp the current needs of the elderly and identify
what particular issues need to be managed. This section, based on the survey results of Beijing in 2012, aims at providing an analysis of the current and potential needs of the aged population in China.

.Profile of Beijing

Beijing, the capital of China, is located in the north part of the country. It consists of 14 districts and 2 counties, with an area of 16,411 km² (Figure 6.13). In 2011, Beijing’s GDP per capita was CNY 81,658 (USD 12,643), belonging to the economically advanced areas in China.  

Figure 6.13. Map of Beijing


Note: This map is for illustrative purposes and is without prejudice to the status of or sovereignty over any territory covered by this map.

Given the existence of the household registration system, Beijing’s residents are divided into two categories: permanent registered residents and non-permanent registered residents. Non-permanent registered residents are also called migrants or the “floating population” and refer to those who have been living in Beijing for more than six months but who do not have a Beijing local household registration. By the end of 2011, Beijing’s total population was 20.2 million. Among them, the permanent registered population amounted to 12.8 million.

In 1990, people aged 60 years and over in Beijing reached 1.1 million, accounting for 10% of Beijing’s total population, indicating Beijing’s entrance into an ageing society. The past two decades have
witnessed rapid population ageing in Beijing. The population aged 60 or over reached 1.7 million in 2000 and 2.5 million in 2010, and it is expected to amount to 4 million in 2020 and 5 million in 2030. Accordingly, the proportion of the elderly in the total population has also increased rapidly. In 2010, the proportion of the population aged 60 or over among Beijing’s total population was 12.5%, and this proportion is expected to reach 20% in 2020 and 30% in 2030 (Beijing Civil Affairs Bureau, 2012).

From 2000 to 2010, although the number of the elderly in Beijing increased by more than 50%, its proportion remained at 12.5% due to a large number of migrants that slowed the oncoming speed of population ageing in Beijing. By the end of 2011, migrants in Beijing had amounted to more than 7.4 million, most of which were young workers. As a result, compared to the total population, population ageing in Beijing’s permanent registered population is more serious. By the end of 2011, persons aged 60 or over amounted to 2.5 million, accounting for 19.4% of the total permanent registered population. Among them, persons aged 65 or over amounted to 1.8 million, accounting for 13.9% of the total permanent registered population; persons aged 80 or over amounted to 386 000, accounting for 3.0% of the total permanent registered population (Beijing Civil Affairs Bureau, 2012).

Table 6.2 outlines the current composition of the permanent registered population aged 60 or over in Beijing. By the end of 2011, Beijing’s age dependency ratio (for the permanent registered population aged 60 or over) was 27.6%.

<table>
<thead>
<tr>
<th>Number (thousands)</th>
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<tbody>
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<td>Gender</td>
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<tr>
<td></td>
<td>Female</td>
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<td></td>
<td>70-79</td>
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<tr>
<td></td>
<td>80-89</td>
</tr>
<tr>
<td></td>
<td>90 or over</td>
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</tbody>
</table>


**Beijing’s measures for addressing population ageing**

In 1984, Beijing established the Committee for Aged People. In 1996, the Leadership Group for Aged People, consisting of 16 member units, was established. The Aged People Association is its administrative part. In 2000, the Leadership Group for Aged People changed its name to the Committee of Service for the Aged People. Its membership increased to 34 units and in 2011 it increased again, to 44. The districts and counties belonging to Beijing also established a committee accordingly.

In recent years, faced with the increasing number of aged people, the Beijing government established the “9064” mode to provide support to its aged population. Under this mode, 90% of the aged people are expected to get support from their own family, 6% are expected to get support from community, and the remaining 4% are expected to live in nursing homes and seek support from the staff there. In addition, Beijing has taken the following measures to deal with its population ageing.

**Expand social security to all urban and rural residents**

First, the old-age security system for all urban and rural residents was established. This system consists of a basic retirement pension for employees’ old-age pension for urban and rural residents, and a preference pension for those without a retirement pension. The retirement pension for 2 037 000 company workers has increased from CNY 1 086 in 2006 to CNY 2 510 in 2012.
Second, the urban and rural healthcare security system supported by the basic healthcare insurance for urban workers, healthcare insurance for urban residents and new rural co-operative healthcare system was created, which benefits 2,328,000 retired workers, 191,000 aged people without healthcare coverage and 645,000 rural aged people. Per capita life expectancy improved from 80.09 years old in 2005 to 80.81 in 2010.

Third, an overall urban and rural social assistance system for aged people was established. In 2012, 38,000 aged people were provided with a subsistence allowance. The rewarding and supporting system was established for rural parents over 60 who had followed the one-child policy. In addition, impoverished urban and rural aged people are given priority for low-rent housing.

Fourth, the initial part of a social welfare system for aged people was established, including a system of home-based care for the aged or disabled, a high-age subsidy and healthcare assistance for people 95 years old or above.

**Push forward home-based care for aged people**

The Beijing government strives to develop a home-based, community-supportive, policy guarantee, and socialised operation service model for aged people. Since in 2010, the government has been granting all aged people above 80 years old a CNY 100 coupon every month to be used in exchange for six kinds of service, including: daily care, housekeeping, recovery care, mental support, education and some other related services. From 2010 to 2011, the government developed 15,000 companies offering such services and founded 4,585 places to provide old-age oriented food to aged people. In addition, the government established 5,305 nursing homes, which provide 30,000 beds. All of these measures help to alleviate the difficulties that aged people are experiencing in dealing with their daily lives. Furthermore, to encourage the virtue of respecting the elderly, the government started to elect and appraise 10,000 persons and 1,000 companies that excelled in doing service for the aged in 2010. From 2011, the healthcare assistance for the aged above 100 was extended to people 95 or above. The number of people employed to work for home-based care of the aged reached 4,400, which further expands the grass-roots human resources supporting the old-age security. Meanwhile, the government equipped all the urban and rural districts with barrier-free service cars and offered 40,000 aged families with barrier-free facilities. In addition, the government tried to give spiritual care for the aged. There are 35 designated companies contracted by the government to offer psychological consultancy. The hotline, 96156, is set up to offer free psychological consultancy for aged people. A large number (200,000) of electronic machines called “helper” have been delivered to the aged.

**Implement a preferential policy for the elderly**

According to the Measures of Preferential Treatment for the Beijing Aged People, aged people will enjoy 11 types of preferential treatment, including in daily life, transport, entertainment, medical and healthcare, protection of their rights and many more. The related government department has granted preferential cards for 1,750,000 aged people above 65. These cards allow aged people to enjoy free inner-city transport, free or reduced price entrance and service to over 500 parks, scenic spots, museums, public gyms and cultural centers. There are 26,000 aged people above 90 enjoying the high-age subsidy. Social institutes related to legal policy will offer free or favourable prices for legal advice or assistance to improve the protection of the aged people’s rights. The government organised many community cultural and sports activities to enrich aged people’s spiritual life and encourage them to actively participate in social activities.
Establish specialised organisations to provide services for aged people

The Beijing government has sped up the construction of services for old-aged people in the past decade. As a result, the number of beds for old-aged people has increased, from 30,000 in 2005 to 82,000 in 2011, and the number of beds per 100 aged people has increased from 1.53 to 3.3. Between 2006 and 2010, the number of beds for nursing aged people increased by 41,000, which is nearly 1.4 times the total number from 1949 to 2005. They increased by 15,000 in 2009 and 2010. At the same time, the government actively delivered a supporting policy subsidising CNY 8,000 to CNY 16,000 for each bed during the construction period and CNY 200 to CNY 300 during the operation period per aged person. Through these efforts, the Beijing government is trying to improve the standards of the organisations providing old-age services (Beijing Civil Affairs Bureau, 2012).

### Table 6.3. Beijing's index of services for aged people (2011-15)

<table>
<thead>
<tr>
<th>Index</th>
<th>2010</th>
<th>2015</th>
</tr>
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<tbody>
<tr>
<td>Social Security system Participation rate of urban worker's pension (%)</td>
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<td>98</td>
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<tr>
<td>Participation rate of urban worker’s medical insurance (%)</td>
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<td>98</td>
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<tr>
<td>Participation rate of urban and rural residents’ pension (%)</td>
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<td>95</td>
</tr>
<tr>
<td>Participation rate of urban and rural residents’ medical insurance (%)</td>
<td>90</td>
<td>95</td>
</tr>
<tr>
<td>Subsidy for older-aged (CNY/month)</td>
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<td>100</td>
</tr>
<tr>
<td>80-89</td>
<td>100</td>
<td>200</td>
</tr>
<tr>
<td>90-99</td>
<td>100</td>
<td>200</td>
</tr>
<tr>
<td>100 and above</td>
<td>200</td>
<td>300</td>
</tr>
<tr>
<td>Subsidy for disabled aged (CNY/month)</td>
<td>...</td>
<td>200</td>
</tr>
<tr>
<td>Life expectancy (year)</td>
<td>80.8</td>
<td>81.8</td>
</tr>
<tr>
<td>Services for aged people Number of nursing beds for the elderly (tens of thousands)</td>
<td>7.2</td>
<td>12</td>
</tr>
<tr>
<td>Number of nursing beds per 100 aged people</td>
<td>2.8</td>
<td>3.8</td>
</tr>
<tr>
<td>Number of beds for mid and long-term nursing</td>
<td>...</td>
<td>5,000</td>
</tr>
<tr>
<td>Rate of nursing beds (%)</td>
<td>...</td>
<td>50</td>
</tr>
<tr>
<td>Number of beds for daytime nursing per 100 aged people</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Number of attendants per 10,000 aged people</td>
<td>15</td>
<td>50</td>
</tr>
<tr>
<td>Number of home-based attendants for aged or disabled people</td>
<td>2,000</td>
<td>10,000</td>
</tr>
<tr>
<td>Number of psychologists per 10,000 aged people</td>
<td>15</td>
<td>20</td>
</tr>
<tr>
<td>Coverage of the aged association in community or village (%)</td>
<td>90</td>
<td>98</td>
</tr>
<tr>
<td>Rate of aged people attending schools/colleges (%)</td>
<td>13</td>
<td>18</td>
</tr>
<tr>
<td>Workers Number of affiliated workers in the public sector per 10,000 aged people</td>
<td>10</td>
<td>30</td>
</tr>
</tbody>
</table>

Note: ...data not available

Source: Beijing Civil Affairs Bureau (2012), Outlook of Beijing’s Population Ageing.

Current economic conditions of aged people in Beijing

As the country’s capital, Beijing’s proportion of the population working in the public sector is comparatively high. At present, people working in the public sector are usually entitled to a better social security system than those working in the private sector. However, an analysis of the current economic conditions shows that even in Beijing the elderly are usually in an economically deprived condition. The yearly income of the elderly in Beijing’s urban area and rural area was 59.8% of the average income for urban workers and 95.6% of per capita net income of rural residents respectively in 2011. Further analysis reveals the existence of a large income gap between the rural elderly and the urban elderly. According to one survey carried out in 2011, the income of rural residents was only 42.0% that of the urban residents (Feng et al., 2012).

The current urban-rural income gap can be partly explained by the difference in the elderly’s income composition. Usually, after retreating from the job market, pension constitutes the principal source of income of the elderly. Currently, the proportion of pension among the elderly’s total income in Beijing’s
urban and rural areas is 81.9% and 37.3% respectively. There are dramatic differences in the coverage ratio and supporting level of pension in rural and urban areas. In Beijing’s rural area, in addition to pension, working income and government subsidies constitute the other two main sources of income. The proportion of the former is 30.8%, and the proportion of the latter is 25.4% (Feng et al., 2012).

In spite of the big income gap, there is no obvious difference in personal expenditures between the rural elderly and the urban elderly. Annual expenditure of the urban elderly in 2011 was CNY 7099, that of the rural elderly was CNY 7611. In addition, analysis also shows great similarity in the composition of expenditure. For both the urban elderly and the rural elderly, medical expenses, clothing and communication expenses constitute the three most important items in their expenditure. However, the proportions of these three items are different for the rural elderly and the urban elderly. For the urban elderly, expenses used in the above three items are 61.0%, 15.1% and 11.3% respectively, whilst they are 81.5%, 6.6% and 6.1% respectively for the rural elderly (Feng et al., 2012).

In addition to income, wealth constitutes another important part of the elderly’s economic conditions. The survey shows that 80.2% of the elderly in Beijing have their own houses/apartments. On average, every aged person has 1.16 apartments. In the urban area, the average area of a typical apartment for the elderly is 79.4m², while in rural areas the average area of a typical house is 137.4m². Given the current high cost of housing in Beijing, owning a typical apartment in an urban area is the equivalent of USD 300,000-400,000. Thus, from the perspective of wealth, the economic conditions of the elderly in Beijing cannot be regarded as bad. The problem that remains is how to obtain financial support from their real estate.

Current and potential usage of old-age products and services in Beijing

In 2012, the most often mentioned goods or services needed among the aged people in Beijing included the following seven aspects: health checks, nutritional supplements, nursing products, education/training, travelling, financial products and nursing services.

Health checks

As age increases, the elderly are more likely to experience physical problems. Therefore, health checks are of great importance in an elderly person’s life. In recent years, more and more aged people in China have begun to pay attention to their physical condition. As a result, the need for health checks among the elderly, especially in urban areas, is continuously growing. In 2011, 60.3% of the elderly in Beijing received a health check. This proportion is expected to increase to 84.6% in the coming years. On the other hand, those that had not received a check-up in the past five years still accounted for 20.4% of the aged population in Beijing (Feng et al., 2012). The big challenge in China is how to ensure that every aged person receives a health check-up.

The public hospital is the primary choice for the elderly in contemporary China to receive a health check-up. Among those having received a health check, 76.9% had it done at the public hospital in Beijing. In contrast, those who selected a specialised private health-check institution only accounted for 13.6%. Recently, private specialised health check-up centres have been developing very quickly. However, most of these centres have focused on the working-age population. Aged people oriented centres are quite few. In addition, the costs of these private specialised centres are much higher than those of public hospitals. Given the fact that most aged people in China have a much lower income, public hospitals are expected to play a more important role in providing health check-ups to the elderly. Differences exist between rural and urban areas; in Beijing’s urban area, up to half of the elderly receive this service through the help of their former employer, whilst in rural areas, 80% of the elderly get this service through the help of the village.
Health-check expenditure will experience rapid growth in the coming years. In 2011, the average cost for a health check in Beijing was CNY 948, among which personal cost is CNY 453. When asked about their budget for health checks in the future, the average response given by the elderly was CNY 641, a 41.7% increase from current expenditure. The above expenditure increase, combined with the rapid increase of the rate of health checks, is expected to bring dramatic growth in the elderly’s health-check market in the future. It is expected that in the year 2020, Beijing’s health-check market for the population aged 50 or over will grow to CNY 9.1 billion (Feng et al., 2012).

An analysis concerning the characteristics of the elderly having received a health check shows differences between different groups among the elderly. Generally speaking, the participation rate of health checks of the urban elderly is much higher than that of the rural elderly; those with higher educational attainment, and those who have a higher income are more likely to receive a health check than those with a lower educational attainment and those who are economically less well off.

Nutritional supplements

In 2012, the consumption of nutritional supplements among Beijing’s aged people was at a comparatively low level. At present, those who are using nutritional supplements only account for 19.9% of the total aged population in Beijing. In other areas of China, this proportion is expected to be much lower yet. This low proportion results from dissatisfaction with the effects of the current nutritional supplement products on the market. When asked about the effects of nutritional supplements, those who answer “useful”, “useless” and “adverse” account for 17.3%, 45.6% and 6.4% respectively in Beijing. Among those who use nutritional supplements, the average yearly expenditure is CNY 4 323 (about USD 700) (Feng et al., 2012), a comparatively high expenditure in terms of the annual income of the elderly. This seemingly contradictory result indicates the coexistence of a strong need for nutritional supplements among the elderly and the high dissatisfaction with the current products provided on the market. Another challenge for China is how to provide satisfactory nutritional supplements to the elderly in the coming years.

Resulting from the comparatively negative evaluation on the quality of current products, the elderly demand for nutritional supplements will experience a slowdown in the coming years. As shown in Beijing’s 2012 survey, those who plan to buy nutritional supplements will fall to 17.9% of the total respondents, a 2% decrease from the current level. Furthermore, the average expenditure on nutritional supplements will also experience a downturn in the coming years. As the survey shows, on average, the expenditure per aged person on nutritional supplements will decrease from the current CNY 4 323 to CNY 4 127 in the future.

In Beijing, 55.2% of the aged population regarded “effect” as the most important aspect with regard to choosing nutritional supplements. In contrast, those who selected “price” as the most important factor only accounted for 4.6% of the aged population. This result shows the possible way to establishing a well-functioning mechanism for providing nutritional supplements to the elderly: it is effect/quality, not the price that decides the possibility of a product’s success in the nutritional supplement sector for the elderly in contemporary China.

Nursing products

In the past decade, nursing products (personal care products) have been widely used in China. At present, 93.8% of the aged people in Beijing use such products. A further analysis concerning the similarities and differences between different groups reveals disparities among the elderly. As far as the personal yearly expenditure is concerned, the maximum amount in 2011 was more than CNY 60 000, whilst the minimum amount was only CNY 1. On average, the elderly are spending CNY 2 545 on nursing products per year.
The elderly’s demand for nursing products will continue its growth in the future. This growth results from two contributing factors: the increase of market share and the increase of individual personal yearly expenditure. Currently, those who plan to purchase nursing products in the future account for 96.5% of the total respondents, nearly a 3% increase from current levels. Meanwhile, the anticipated individual yearly expenditure on nursing products will see a rapid increase: to CNY 9394 in the coming years, which represents a 269% increase from the current expenditure level. Both of the above increases will lead to the rapid development in the usage of nursing products in the future.

A further analysis regarding the characteristics of the population using nursing products shows that great disparities exist between different groups of the elderly. The age group below 60 years old will see the fastest growth in the future, as will the group of professionals/technicians. By income, the lowest group, with a yearly income of less than CNY 10800 and the highest group with a yearly income of above CNY 38400 will see the fastest growth in the future.

<table>
<thead>
<tr>
<th>Table 6.4. Consumption of nursing products among the elderly in Beijing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current consumption</td>
</tr>
<tr>
<td>No.</td>
</tr>
<tr>
<td><strong>Residence</strong></td>
</tr>
<tr>
<td>Urban area</td>
</tr>
<tr>
<td>Rural area</td>
</tr>
<tr>
<td>Total</td>
</tr>
<tr>
<td><strong>Age</strong></td>
</tr>
<tr>
<td>Less than 60</td>
</tr>
<tr>
<td>60-69</td>
</tr>
<tr>
<td>70-79</td>
</tr>
<tr>
<td>80 or over</td>
</tr>
<tr>
<td>Total</td>
</tr>
<tr>
<td><strong>Gender</strong></td>
</tr>
<tr>
<td>Male</td>
</tr>
<tr>
<td>Female</td>
</tr>
<tr>
<td>Total</td>
</tr>
<tr>
<td><strong>Educational attainment</strong></td>
</tr>
<tr>
<td>Primary school</td>
</tr>
<tr>
<td>Middle school</td>
</tr>
<tr>
<td>High school</td>
</tr>
<tr>
<td>College or above</td>
</tr>
<tr>
<td>Total</td>
</tr>
<tr>
<td><strong>Occupation</strong></td>
</tr>
<tr>
<td>Government official</td>
</tr>
<tr>
<td>Business leaders</td>
</tr>
<tr>
<td>Professional/technicians</td>
</tr>
<tr>
<td>Clerks</td>
</tr>
<tr>
<td>Workers in manufacturing/transport sector</td>
</tr>
<tr>
<td>Other</td>
</tr>
<tr>
<td>Total</td>
</tr>
<tr>
<td><strong>Personal yearly income</strong></td>
</tr>
<tr>
<td>10 800 CNY or under</td>
</tr>
<tr>
<td>10 801-24 000 CNY</td>
</tr>
<tr>
<td>24 001-30 000 CNY</td>
</tr>
<tr>
<td>30 001-38 400 CNY</td>
</tr>
<tr>
<td>38 400 CNY or over</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>


**Travelling**

After retirement from the job market, more and more elderly are realising the importance of finding opportunities to engage in social activities. Among them, travelling has become one important way for the elderly to seek emotional support. In 2011, 40.2% of the elderly travelled. This share is expected to increase to 58.8% in the coming years (Feng et al., 2012). Currently, there are three categories in the elderly’s travelling: short-distance travelling to neighbouring areas, long-distance domestic travelling and overseas travelling. Among them, short-distance travelling is the most popular among the elderly.
As far as the particular travelling style is concerned, most of the elderly travelled with friends/family members or made the arrangements by themselves. The proportion of this style accounts for 45.4% of the travellers. In addition, 21.1% of the elderly travelled with the help of their former employer, and 11.9% of the elderly travelled with the help of their community/village. In contrast, those who travelled with the help of a specialised travel agency only accounted for 18.1% (Feng et al., 2012).

As for the effect of travelling, 58.7% of the elderly regard travelling as a way to seek leisure/happiness and 25.5% as a way to obtain new knowledge. In addition, those who regard travelling as a way to improve relationships with family members or improve their own physical conditions account for 6.1% and 6.6% respectively (Feng et al., 2012).

In addition to the increase of market share, the elderly’s individual expenditure on travelling is also expected to see a rapid increase in the coming years. At present, the elderly’s yearly individual expenditure on travelling is CNY 5,708 in Beijing. This number is expected to reach CNY 7,170 in the coming years, a 25.6% increase from the current level (Feng et al., 2012).

An analysis concerning the characteristics of elderly travellers reveals the differences between different groups in growth potential. In terms of residence, the urban elderly is higher. In terms of age, the younger group is higher. In terms of educational attainment, the high school group is increasing the fastest. In terms of occupation, the group of professional/technician is the fastest. And in terms of income, the middle class with personal income from CNY 24,001-30,000 is the fastest.

### Table 6.5. Travelling rate among the elderly in Beijing

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Current consumption</th>
<th>Future consumption</th>
<th>% change</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No.</td>
<td>%</td>
<td>No.</td>
</tr>
<tr>
<td>Residence</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urban area</td>
<td>155</td>
<td>42.6</td>
<td>230</td>
</tr>
<tr>
<td>Rural area</td>
<td>41</td>
<td>33.6</td>
<td>56</td>
</tr>
<tr>
<td>Total</td>
<td>196</td>
<td>40.3</td>
<td>286</td>
</tr>
<tr>
<td>Age</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less than 60</td>
<td>72</td>
<td>48.6</td>
<td>115</td>
</tr>
<tr>
<td>60-69</td>
<td>69</td>
<td>38.8</td>
<td>102</td>
</tr>
<tr>
<td>70-79</td>
<td>41</td>
<td>34.7</td>
<td>56</td>
</tr>
<tr>
<td>80 or over</td>
<td>12</td>
<td>31.6</td>
<td>11</td>
</tr>
<tr>
<td>Total</td>
<td>194</td>
<td>40.2</td>
<td>284</td>
</tr>
<tr>
<td>Gender</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>80</td>
<td>37.9</td>
<td>123</td>
</tr>
<tr>
<td>Female</td>
<td>116</td>
<td>43.0</td>
<td>163</td>
</tr>
<tr>
<td>Total</td>
<td>196</td>
<td>40.7</td>
<td>286</td>
</tr>
<tr>
<td>Educational attainment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary school</td>
<td>27</td>
<td>23.9</td>
<td>38</td>
</tr>
<tr>
<td>Middle school</td>
<td>54</td>
<td>38.0</td>
<td>81</td>
</tr>
<tr>
<td>High school</td>
<td>64</td>
<td>43.8</td>
<td>104</td>
</tr>
<tr>
<td>College or above</td>
<td>51</td>
<td>59.3</td>
<td>64</td>
</tr>
<tr>
<td>Total</td>
<td>196</td>
<td>40.7</td>
<td>287</td>
</tr>
<tr>
<td>Occupation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Government official</td>
<td>80</td>
<td>44.9</td>
<td>114</td>
</tr>
<tr>
<td>Business leader</td>
<td>53</td>
<td>44.9</td>
<td>80</td>
</tr>
<tr>
<td>Professional/technicians</td>
<td>12</td>
<td>25.0</td>
<td>30</td>
</tr>
<tr>
<td>Clerks</td>
<td>24</td>
<td>31.2</td>
<td>28</td>
</tr>
<tr>
<td>Workers in manufacturing/transport sector</td>
<td>19</td>
<td>41.3</td>
<td>24</td>
</tr>
<tr>
<td>Other</td>
<td>7</td>
<td>41.2</td>
<td>9</td>
</tr>
<tr>
<td>Total</td>
<td>195</td>
<td>40.3</td>
<td>285</td>
</tr>
<tr>
<td>Personal yearly income</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 800 CNY or under</td>
<td>30</td>
<td>30.6</td>
<td>46</td>
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<tr>
<td>10 801-24 000 CNY</td>
<td>39</td>
<td>35.8</td>
<td>61</td>
</tr>
<tr>
<td>24 001-30 000 CNY</td>
<td>33</td>
<td>33.7</td>
<td>61</td>
</tr>
<tr>
<td>30 001-38 400 CNY</td>
<td>39</td>
<td>47.0</td>
<td>50</td>
</tr>
<tr>
<td>38 400 CNY or over</td>
<td>53</td>
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<td>67</td>
</tr>
<tr>
<td>Total</td>
<td>194</td>
<td>40.1</td>
<td>285</td>
</tr>
</tbody>
</table>

In spite of the rapidly increasing desire to travel among the elderly, the supply of aged people oriented travelling courses is far from enough. At present, most of the travelling courses are based on the assumption that the participants are healthy and young. Special consideration to the comparatively poor mobility and food preferences of aged participants is usually neglected. In the coming years, the designing of aged people oriented travelling courses is urgently needed.

**Education/training**

Given the social context of today’s elderly’s childhood period, the educational attainments of the current elderly are comparatively low. Even in Beijing, the educational attainments of the current elderly are as follows: primary school 23.2%, middle school 29.1%, high school 30.0%, college or above 17.7%. For them, receiving education/training after retirement makes their life more comfortable and more colourful. Currently, 33.1% of the elderly in Beijing participate in various types of training/education after retirement. Most of these training courses are offered free of chagre by communicates or villages. Among those who have paid for training, the average expenditure is CNY 104 (Feng et al., 2012).

In contrast with the current low participation rate and expenditures, the training/education sector for the elderly will see extremely rapid growth in the coming years. On one hand, the market share of those who participate training is expected to reach 62.4% in the coming years; one the other hand, the personal yearly expenditure is expected to increase to CNY 854, a 724.4% increase from the current level. Health-keeping related knowledge and habit-forming activities are the most interested courses among the elderly.

In spite of the bright future of the training sector for the elderly, the current supply is far from sufficient. Although the number of training schools/colleges for the elderly in China had increased to 48,116 by the end of 2011, a large amount of aged people still cannot find a suitable place to receive training/education after their retirement. In addition, more and more aged people have begun to pay more attention to the quality of training. In the coming years, establishing a well-functioning training system for the elderly is also becoming an urgent issue.

Further analysis concerning the characteristics of the training participants shows the differences between different groups in the growth potential of training. It is higher in rural areas and among younger groups. It is increasing the fastest among government officials and high school graduates.

**Financial products**

For most aged people in China, financial products are a newly emerging product, most of which are too complicated for them. Thus, the proportion of those who possess financial products is comparatively low. As shown in the survey, currently 22.8% of the elderly possess financial products. The individual possession of financial products on average is CNY 70,832. As far as the particular financial products are concerned, securities, funds and commercial insurance constitute the bulk.

Currently, most of the elderly obtained financial product related information from friends/family members, TV commercial advertising, and the propaganda of financial institutions, the proportions from these sources account for 7.8%, 6.0%, 5.3% and 4.5% respectively (Feng et al., 2012). This composition shows that most of the elderly do not have enough information concerning financial products. When asked about the difficulties in purchasing financial products, most of the elderly pointed out that the complexity of the current products has impeded their purchase. In addition, the shortage of suitable products in the financial market constitutes another barrier for the elderly’s participation in the financial market.

Given the comparatively poor overall performance of the financial market in recent years, most of the elderly have the intention to withdraw or lessen the purchase of financial products in the future. Those who plan to purchase financial products in the future will fall from the current 22.8% to 18.7%, a 4.1% decrease.
from the current level (Feng et al., 2012). However, not every product will see a decline in this market. In spite of the obvious downturning of holding securities and stocks, foreign currencies and valuable metals such as gold are attracting more attention from the elderly. In addition, the more fundamental reason for the downturn is the shortage of supplying suitable products. The elderly are less risk tolerant than the younger generation. Thus, most of those who purchase financial products seek low-risk products.

A further analysis of the characteristics of the elderly engaging in the financial market shows the differences across groups. The group aged 59 years or under shows the fastest downturn, whilst the group aged 70-79 shows an increasing will to purchase financial products. In educational attainment, the group of middle school shows the fastest downturn. By occupation, the group of professional/technician showed the fastest downturn. In income, the middle class with a yearly income of CNY 24 001-30 000 shows the fastest downturn. In coming years, it will be necessary to design suitable financial products based on the above characteristics.

Caring services

In 2012, 12.9% of the aged population in Beijing was using caring services. Those services include: housekeeping, food delivery, daily care, recovery care, emergency assistance and mental support. Figure 6.14 presents the current and future usage of these six kinds of services. Among the current usage, housekeeping is the most popular, at 8.4%. In the coming years, the need for caring services will rapidly increase and its proportion is expected to amount to 65.4%. Emergency assistance will become the most needed service; its proportion is expected to increase to 53.2% of the aged population (Feng et al., 2012).

Faced with the increasing need for care services, the current provision is not satisfactory. Currently, channels for the elderly to obtain care services-related information mainly consist of three types: relatives/friends (22.2%), TV (19.3) and community/village (17.7). In contrast, 38.8% of aged people complain that there is no place for them to get information regarding care services (Feng et al., 2012). It is obvious that establishing a well-functioning channel to provide related information will be the first step forward in the development of care services.
At present, the average yearly expenditure on ‘caring’ services among the elderly in Beijing is CNY 5,232. Whilst the potential average expenditure is expected to reach CNY 9,102 in the coming years, an increase of 77.4%, a closer look at the particular factors in using the caring services shows that this is the aspect that most concerns the elderly. Among the aged population in Beijing, 61.4% regard “effect” as the most important concern. In addition, those who regard “attitude” as the most important concern account for 24% of the aged population. In contrast, people who regard “price” as the most important concern only account for 13% of the aged people.

Current development of the silver and white industries in Beijing

Through the above analysis concerning the current and potential usages in seven particular sectors of the silver industry, it is obvious that the needs of the elderly are very strong and the silver industry as a whole is expected to experience rapid growth in the future. However, the big gap between the current and the future usages also reveals the slow development of the silver industry in Beijing at present. Currently, the supply of aged people oriented products and services are far from meeting the needs of the elderly. The current development of the silver industry in Beijing demonstrates the following characteristics:

High attention to the key unresolved issues: Policy makers, business leaders and non-government organisations have realised the importance of developing the silver industry. However, with respect to key points such as how to define silver industry, what are the respective roles of the public and private sectors in pushing forward the development of the silver industry, what are the suitable model(s) in producing/providing products/services in China’s current context, an agreement has yet to be reached.

Mainly focusing on high-income groups: The current products/services provided in Beijing’s market focus on the high-income aged people which only accounts for a small share of the total aged population. As for the middle or low-income aged people, there are few products/services available at present.

Different problems in each particular sector: At present, problems existing in each sector of the silver industry are different:

2. In the healthcare sector, the private sector has been involved to some extent. However, existing hospitals and facilities as a whole are far from meeting the elderly’s healthcare needs.

3. In the old-age people oriented nursing products sector, although there has been some development in recent years, high-quality, individualised and diversified products are not available at present.

4. In the old-age people housing sector, although many enterprises have started a business, most of them are focusing on high-income aged people. Provision of housing aimed at low or middle-income aged people is not available.

5. In the old-age people oriented travel sector, some travel agencies have prepared specialised courses for the elderly. However, special consideration to the quality and safety is needed.

6. In the care sector, the sector as a whole has achieved good results. However, working conditions are comparatively poor. Therefore, retaining enough workers is still a big challenge for this sector.

Policy recommendations for pushing forward China’s preparations for its population ageing

Pushing forward the development of the silver industry can only be regarded as one part of China’s overall efforts in making adequate preparations for dealing with its increasing population ageing. To
stimulate the development vitality of an ageing society in China, key policy recommendations include the following five aspects:

- **Urban planning**: Due consideration should be given to the elderly population and its support in urban planning and suitability for the elderly to live shall be taken as an important measurement for urban planning in the future, which is particularly true for community construction, urban function layout, urban transport, living facilities, etc.

- **Community construction**: To build communities for supporting the aged, city planners should improve relevant community capacities in terms of community planning, personnel allocation and system construction. Specifically, facilities and sites for the aged should be considered in community planning; a team of social workers should be recruited to satisfy the needs of the aged in a community; a co-operation mechanism between communities and relevant service institutions, such as hospitals, restaurants and shops should be established to form a comprehensive community-based elderly care system.

- **Social supporting system**: A social supporting system for the elderly is required. On the one hand, the Chinese government will gradually establish financial reserves to pay for the elderly care services through many new systems like nursing insurance. On the other hand, guided by uniform standards, relevant authorities will carry out nursing training and vocational certification, to accelerate the recruitment of elderly care nurses.

- **Health and social involvement**: In order to actively address population ageing, local health institutions are required to intensify their guidance and services for the aged against chronic diseases, shifting the focus of services from treatment to prevention. Besides, relevant authorities will take measures to enrich the life of the elderly and attract their participation in more social activities, in an attempt to significantly improve their health and social involvement.

- **Silver industry**: To develop more products for the elderly and foster the elderly care industry, policy makers should carry out surveys on the living needs of the elderly and make more efforts to develop designated services and products. Meanwhile, apart from stratifying the increasing needs of the aged, the elderly care industry will be built into a new economic growth point.

### NOTES

1. According to the potential demographic and socio-economic consequences, low fertility rates can be divided into low fertility (1.5-2.1), very low fertility (1.3-1.5) and lowest-low fertility (below 1.3) (CDRF, 2012).

2. This refers to the people whose place of residence differs from their registered residence and who have been away from the latter for more than six months (excluding those who have been so in urban jurisdictions).

3. Permanent residents refer to those who live in a particular area on a permanent basis. The definition of “permanent residents” for the sixth national census includes the following: people whose hukou (registered permanent residence) is in an area and who live there; people whose hukou is outside an area but who have
lived there for over six months; people who live in an area and whose *hukou* is yet to be established; and people whose *hukou* is in an area but who have been away for less than six months.

iv. “Left-behind children” and “migrant children” are two special groups emerging during China’s rural-to-urban migration. “Left-behind children” refers to those who have stayed in the hometown in spite of their parents leaving as migrants. In contrast, “migrant children” refers to those who have moved together with their migrant parents.

v. The “hollowing-out” of rural areas is an undesirable evolution of the rural area system during the rural-urban transformation. It includes the “hollowing-out” of rural industry and infrastructure as well as that of rural land and population. In essence, it is the overall degeneration of the socio-economic functions of rural areas (Liu Yansui et al., 2010).

vi. The term “silver economy” has been frequently used by European scholars in recent years. At the “Silver Economy in Europe” Conference in Bonn, Germany in February 2005, a declaration was drafted which describes the silver economy “…as an opportunity for quality of life, economic growth and competitiveness in Europe’ (Silver Economy in Europe 2005: web document). The declaration argues that “an appropriate innovative drive [in this sector] results in growth and new jobs, and in a global context increases Europe’s competitiveness and that of the companies operating [t]here” (Silver Economy in Europe 2005: web document). In this research, silver industry (or silver economy) is defined as the industry/sector focusing on producing/providing the aged population oriented products/services. “White economy” refers to those products, services and activities related to healthcare and care including the dependent, disabled and elderly.

vii. Disability adjusted life year (DALY) refers to the total number of years lost due to ill-health, disability or early death. It includes the two parts of years of life lost (YLL) due to early death and years lived with disability (YLD) caused by diseases (WHO, 2004).

viii. This survey was conducted during the period from August to November 2012. Three types of respondents were interviewed: residents aged 50 or over, leaders of enterprises engaging in silver and white industries, and officials working in senior-related sectors.

ix. In 2011, China’s per capita GDP was CNY 35 083 (USD 5 432).
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CHAPTER 7:

NORTH KYOTO’S RESPONSE TO JAPAN’S SHRINKING POPULATION

The Japanese population is both decreasing rapidly and ageing due to low birth rates and longer life expectancies. Within marginalised areas, such as North Kyoto, the situation is becoming highly problematic because the main industry has been agriculture. Stagnation of economic activities, along with depopulation and ageing, are making traditional community functions fragile. Universities are providing a supporting role for regional and local authorities with research studies and practical policy recommendations for local communities and the development of socio-economic alliances and local collaboration. This chapter explores the Community and University Alliance for the Regeneration of Northern Kyoto Area and the potential of the Kyoto Model.¹
Trends in Japan and the Northern Area of Kyoto Prefecture

Trends in Japan

In Japan, the population is decreasing and ageing. During the coming two or three decades, local cities outside the metropolitan areas will be “marginalised cities”. This term is used to indicate that such cities will be unable to sustain city functions at certain levels in terms of quality and quantity, such as administrative, medical and educational services, retail and cultural activities. The tax bases of local city governments have become vulnerable because of both long-term economic stagnation and industrial losses. Their fiscal management faces serious difficulties every year. It is getting more difficult to maintain and improve existing urban infrastructure. The populations of both central and satellite cities located in metropolitan areas, including Tokyo and Osaka, are likely to decrease.

According to estimates by the National Institute of Population and Social Security Research, in 2060, the total population of Japan will be 86.73 million. In comparison to 2010, this means a decrease of 32.3%. In 2046, the estimated population will be below 100 million. This means that in 30 years, it will decrease by more than 20 million people. This is mainly because of the continuing low birth rate. If current birth rate declines continue, the current total fertility rate of 1.39 (National Institute of Population and Social Security Research, 2010), will be 1.35 in 2024. This is caused mainly by people marrying later in life, as well as families having fewer children. Recent instability in employment has also led to an increase in the percentage of unmarried people, as the stability required for starting a family is lacking. The percentage of unmarried people aged 30-34 has reached 47% for males and 35% for females, according to the 2010 national census and Nippon Keizai Shimbun (2012).

During the period 2010-15, the only prefectures in which populations are predicted to increase are Tokyo, Kanazawa, Aichi, Mie, Shiga and Okinawa (Figure 7.1). Akita, Aomori and Wakayama are predicted to decrease by 4-6%. During the period 2030-35, the rate of population reduction will be over 6% in Akita, Aomori, Wakayama and Yamaguchi, and most prefectures will experience a 4-6% decrease.

Core cities in local areas are experiencing remarkable levels of population decrease. Natural death rates, combined with social decreases have contributed to the rapidity of the overall population reduction. Of cities with more than 100 000 people, 27.5% have seen decreases in their populations (Yahagi, 2009). During the period 2005-06, 45.5% of the cities with more than 100 000 people had decreasing populations while 22 prefectures experienced drops in their populations. Recently, more than half of the cities with 100 000 inhabitants experienced population decreases. In the case of local small and medium cities (those with less than 100 000 people), their population reduction trends are even more remarkable, with most of them predicted to become marginalised cities.
Figure 7.1. Prefectures experiencing a population decrease in Japan (2010-35)

Note: This map is for illustrative purposes and is without prejudice to the status of or sovereignty over any territory covered by this map.

The accelerated ageing of the population is caused by low birth rates and longer life spans. The average life span in 2010 was 79.64 years for males and 84.19 for females. In another 50 years, they will be 86.39 for males and 90.93 for females. Consequently, according to estimates by the National Institute of Population and Social Security Research, in 2060, the ageing rate (over 65 years old) will reach 39.9%. Longevity in society is not a bad thing. We are not living in the era of *Ubasuteyama* (“granny dumping”), and this longevity is something of which to be proud. The problem lies in the lack of balance between population and age structure. In ageing cities, where the young and the middle-aged have left, the economic and social conditions that support people’s daily lives will deteriorate. The sustainability of cities will be threatened.

Japan’s population is not likely to increase in either the medium or long term. Also, ageing will not cease. Shrinking will be one of the fundamental patterns of city typology. Except for times of war and disasters, urban researchers and policy developers have accepted growth and expansion as being self-evident, so they have focused on directing that growth or expansion. This is the first study and formulation of urban policies based on the premise of city shrinkage.

**The Northern Area of Kyoto Prefecture**

The Northern Area of Kyoto Prefecture is composed of the Chutan area (Ayabe City, Maizuru City, Fukuchiyama City) and the Tango area (Miyazu City, Kyotango City, Ine Town, Yosano Town) (Figure 7.2). Ryukoku University’s project for regeneration of the Northern Area of Kyoto Prefecture, the “Research Centre for Local Public Human Resources and Policy Development”, adds the Nantan area (Kameoka City, Nantan City, Kyotamba Town) to its research targets. This chapter deals with the three areas combined as the “Northern Area”.

![Map of Kyoto Prefecture](image)

*Note: This map is for illustrative purposes and is without prejudice to the status of or sovereignty over any territory covered by this map.*

*Source: Author*
These areas are located in the north of Kyoto City at the east end of the Chugoku mountains. The mountains are not precipitous, though there are few plains. They are in a typical rural area. In winter, it snows a lot while in summer, it is often foggy. It is not pleasant in terms of climate. Recently, highways have been built; however, it is still a long way to Kyoto City. They are thus regarded as disadvantaged areas in terms of geography as well as climate. Rapid population reduction, as well as population ageing, are evident. The social and economic issues which shrinking societies face have been manifest for many years.

The main industry has been agriculture. People grow rice on the plains and vegetables and fruit in fields on the sloping land. However, population decreases and increases in the number of ageing people (more than 65 years old) in such rural areas makes the functioning of traditional communities fragile, which in turn threatens the sustainability of agricultural production. Agricultural production currently does not even reach the rate of 3% of gross regional product. The fabric industry was growing but has declined recently, resulting in the loss of an industrial base. Consideration is being given to the development of a manufacturing-based food industry to operate in co-operation with agricultural production.

**Demographic change in the Northern Area of Kyoto Prefecture**

According to the national census, the total population of the Northern Area of Kyoto Prefecture increased slightly between 1990 and 1995. After that, between 1995 and 2000, it decreased by 4 035. The population of Kyoto Prefecture also decreased during 2000-05. The population of the Northern Area began decreasing five years earlier than Kyoto Prefecture and has continued to decrease. The total population in 2010 was 469 023.

According to predictions by the National Institute of Population and Social Security Research, the population of the Northern Area is expected to decrease to 441 457 in 2020 and 407 890 in 2030. Compared to 2010, these estimates put it at 13% less (Figure 7.3). The rate of population decrease of Kyoto Prefecture during the same period is estimated to be 7.7%.

![Figure 7.3. Demographic change of the Northern Area of Kyoto Prefecture (estimation)](image)

Source: Based on National Institute of Population and Social Security Research, Available at: [http://www.ipss.go.jp/index-e.asp](http://www.ipss.go.jp/index-e.asp)
Accessed June 2012.
The city with the largest population in the Northern Area is Kameoka City (92,399 inhabitants in 2010). It is located close to Kyoto City, which puts it in a good position for commuting to school and work, which was why Kameoka experienced population growth during 1995-2000. Maizuru City had a total population of 88,669 in 2010. It has a military base and its young population is relatively large. However, a population decrease was recorded there during 1990-95. Fukuchiyama City has a distribution centre for agricultural products in the Northern Area as well as government offices. Historically, it has been a core city to the north of Kyoto City, but as is seen in the other cities in the area, its population recorded a decrease, according to the national census of 2000-05, at which time Fukuchiyama City became a shrinking city.

The other cities and towns are experiencing even more rapid population drops. For example, Miyazu City, facing Wakasa Bay, recorded a population of 19,948 in 2010, which was a 24.6% decrease (base year: 1990). Because of its remarkable population decrease, it faces difficulties in continuing community activities within the city. This results in the body blow effect by which the population decrease undermines the financial basis of the city.

The population of the Northern Area is also ageing rapidly. The ageing rate in 2000 was 22.4%. In 2010, it had increased by 5.1% to 27.5%. The rate is higher than the national average ageing rate of 23.0%, which is also the average rate of the Kyoto Prefecture. In 2035, Miyazu City in the Tango area is expected to record an ageing rate of 50%, which means one of every two citizens will be older than 65 (Kyoto Prefecture, 2012). At the same time, the working-age population (15-65 years old) will decrease. The percentage working-age people in the Northern Area of Kyoto Prefecture declined from 62.2% in 2000 to 59.0% in 2010. This rate is also below the Japanese national average rate of 63.8%.

**Economic and industrial trends in the Northern Area of Kyoto Prefecture**

The industrial structure of the Northern Area of Kyoto Prefecture differs from one region to another (Kyoto Prefecture, 2012). In the Nantan area, where Kameoka City is located, and the Chutan area, where Fukuchiyama City and Maizuru City are situated, manufacturing industries account for one third of regional production. Industries include food processing, shipbuilding and metal industries. However, the Tango area, where Miyazu City is located, only recorded 16.7% manufacturing industries. Conversely, the Tango area recorded 22.4% for service industry production, which is approximately 6% higher than the other two areas. In Miyazu City, the service industry is the largest industry, accounting for 28.5% of its gross production in 2009. This implies that its tourism industry, which takes advantage of the scenic beauty of Wakasa Bay, supports its regional economy.

The stagnation of economic activities has been occurring for a long time in the Northern Area of Kyoto Prefecture. This is because the Japanese economy is still not able to escape from the long-lasting recession, and the investment which leads to new employment has been small, so the population is still decreasing. Therefore, this is considered to be a structurally depressed area. In the Tango area, during the decade from 2000 to 2009, the economic growth rates for eight fiscal years showed negative growth. Negative growth has become the norm. It is assumed that it will be difficult for economic growth rates to become positive, sustainable growth in the future. Both the Chutan and Nantan areas recorded negative growth for four fiscal years (Figure 7.4).

The employment situation is also serious because of the long-term recession. While the official ratio of job offers to jobseekers in the Northern Area of Kyoto Prefecture has shown slight signs of improvement in the last two years, it continues remain below 1.0 and many people have given up looking for work.
According to the Kyoto Prefecture, economic stagnation naturally leads to a decrease in incomes. The distributive income per capita for fiscal year 2009-10 in the Tango area was JPY 1,896,000, a 13.1% decrease compared to the 2000-01 fiscal year. The Chutan area recorded an income per capita of JPY 2,415,000, a 5.5% decrease. In the past decade, the regional gap within the Kyoto Prefecture has expanded rapidly. In fiscal year 2000-01, the distributive income per capita in the Tango area amounted to 70% of that of Kyoto City, but in fiscal year 2009-10, the gap extended to 62.2%. This income gap is identified as a factor which accelerates the population exodus from the disadvantaged areas to metropolitan areas.

**Local societal trends in the Northern Area of Kyoto Prefecture**

In order to sustain a comfortable life in an ageing society, medical facilities are essential. In the Northern Area of Kyoto Prefecture, the number of hospitals has not changed remarkably yet the number of hospital beds has increased slightly. According to the Ministry of Health, Labour and Welfare’s Survey of Physicians, Dentists and Pharmacists (2010), the number of medical doctors engaged in hospitals, for each secondary medical care block, is 286.2 per 100,000 people in Kyoto Prefecture, which is ranked number one nationally (the national average is 219.0). However, in the Northern area the numbers are much lower than the average for Kyoto Prefecture: Tango (152.6); Chutan (209.2); Nantan (170.2).

According to the Kyoto Medical Practitioners Association, the Northern Area of Kyoto Prefecture is faced with various challenges such as “unbalanced locations of doctors”, “lack of medical doctors”, “lack of a combined co-operative medical centre”, “elderly-friendliness (access, etc.)”, and “improvement of the emergency medical system”. Additionally, the number of students at primary, junior and high schools is decreasing, reflecting the declining birth rate. The total number of primary schools in Kyoto Prefecture decreased by 20 from 2000-10. Ten of them were in the Northern Area of Kyoto Prefecture.
If schools are closed or merged, problems such as longer commuting distance will arise. A decision also needs to be made regarding how the unused school buildings and gyms can be utilised.

In the Northern Area of Kyoto Prefecture, there has been an increase in the number of people who receive welfare benefits (public assistance). The main causes are considered to be long-lasting recession and a lack of new employment. Presumably because farmers are self-sufficient to some extent in rural areas, the relative increase in the number of people who receive welfare benefits is seen chiefly in urban areas. The increases in Maizuru City, Fukuchiyama City and Kameoka City are significant. Maizuru City’s rate of public assistance (per 1 000 people) is 14.8%, which is the highest in the Northern Area of Kyoto Prefecture.

**OECD Older Workers Friendly Places to Work (OLWOF) Index and Elderly Friendly Places to Live (ELFRI) Index**

In collaboration with the OECD and LORC, questionnaires for the Older Workers Friendly Places to Work (OLWOF) Index and the Elderly Friendly Places to Live Index (ELFRI), developed by the OECD LEED programme, were used in the Northern Area of Kyoto Prefecture. The results are reported below.

The overall OLWOF Index, out of 5 (1 is poor, 5 is excellent) for the Northern Area of Kyoto Prefecture is 2.3, which is categorised as an area with a poor OLWOF Index. More specifically, the OLWOF topic index overall rating is as follows: recruitment: 2.2; work culture and opportunities: 2.3; training and skills development: 2.0; firm health and benefits: 2.7. Significantly, the overall importance rating of OLWOF for the Northern Area of Kyoto Prefecture is 3.7, which categorises the area as average. More specifically, the importance of OLWOF topics were rated as follows: work culture and opportunities: 3.7; training and skills development: 3.4; firm health and benefits: 4.2 (Figure 7.5). This slow realisation of the importance of older persons working for the regional and local economy may reflect the delayed response in developing strategies to keep older persons in employment and contributing to the regional and local economies. It reflects a significant policy gap between reality and what ideally should be done.
The overall ELFRI Index, out of 5 (1 is poor, 5 is excellent) for the Northern Area of Kyoto Prefecture is 2.7, which is below average as an elderly-friendly place to live. More specifically, the ELFRI topic index is as follows: outdoor spaces and buildings: 2.7; transport: 2.7; housing: 2.5; social participation: 2.9; respect and social inclusion: 3.1; civic participation and employment: 2.7; communication and information: 2.6; community support and health services: 2.7 (Figure 7.6). Generally, according to the index, the Northern Area of Kyoto Prefecture is not an elderly-friendly place to live, with plenty of room for improvement and policy focus.
What can universities do? Kyoto’s challenges

Higher education in Japan and vocational education and training (VET)

In Japan, the expectation that higher education institutions will play certain roles in the field of vocational education and training (VET) has been enhanced recently. However, the Japanese government has not yet been successful in establishing a qualification framework for VET. There is no framework that defines the relationship between general education and VET like the European Qualification Framework (EQF). There are no strategies or scenarios on how higher education institutions should be involved in VET.

There are qualifications for specific professional occupations such as medical doctors and teachers. To obtain these qualifications, study of the formal courses provided by higher education institutions is required. Other certification and skills such as information and communication technology (ICT) are obtained outside higher education institutions. The higher education institutions may provide learning opportunities, but, mostly, certification and skills accreditation relating to jobs are obtained outside higher education institutions.

Generally, Japanese companies and administrative institutions have not taken VET by higher education institutions positively. Employment practices in Japan, which are based on the pillar of lifelong employment, expect employees to share their skills and abilities with their workplaces rather than gain general professional skills and vocational knowledge from them. Companies and administrative institutions
prefer generalists rather than specialists. They expect workers to attain specialties and skills through on-the-job training. Such training is not based on systematic programmes, but is rather focused on the accumulation of experience. Recently, this trend has started to change.

The views of companies with regard to VET have been influenced by low economic growth over long periods of time. More companies are seeking career education training from higher education institutions. Events such as the Lehman Brothers shock, the European financial crisis and the Great East Japan Earthquake caused a serious economic recession. The employment issue has become a top priority for both management and labour.

Since the adoption of the Decentralisation Law in 2000, local authorities have begun to request the capacities of administrative officers to be enhanced. Not only local decentralisation, but also the changes to local policies that put more emphasis on the participatory process, have led to local authorities requiring administrators to improve their communication skills. Administrative institutions consider that such officials should have these abilities before beginning their employment.

Companies and administrative institutions are changing their understanding of human resource cultivation and VET. This is part of a lasting change rather than a short-term change. By examining the data on the university attendance ratio and the unemployment rate, it is possible to understand that such a lasting change is commonly seen in OECD member countries.

The university attendance ratio in Japan was approximately 10% in the 1950s. It increased rapidly until the middle of the 1970s, peaking in 1976 at 38.6%. It decreased slightly until the 1990s when it increased again. In 1993, it was over 40%, and since 2005, it has been over 50%.

In Japan, during the development of the social economy, from the high-growth period through the stable growth period to the period of the bubble economy, the belief that more highly educated persons are required has been growing. As a result, a society has evolved that puts increased emphasis on educational background.

As a global trend, the unemployment rate of highly educated people is low. Together with realising the importance of a knowledge society and achieving technological advancement, there has been a growing tendency to require higher educational qualifications. The increased rate of university attendance in Japan is in accordance with this global trend.

However, the unemployment rate of university graduates in Japan increased rapidly from 1992 when the Japanese economy went into recession, brought about by the collapse of the bubble economy (Figure 7.7). The rate of increase is almost the same as the general unemployment rate. Throughout the 1990s, the general unemployment rate continued to increase but, in comparison with its previous levels, the improvement in the unemployment rate of university graduates was not remarkable. Through the 2009 Lehman shock, the general unemployment rate declined again, but the continuing tendency for the unemployment rate of university graduates to decline became more serious.
The difficulties faced by highly educated people in the labour market indicate that the proportion of the labour force with higher education qualifications may become excessive. A number of OECD member countries are facing similar situations. The labour market seeks to move towards the knowledge society, and the younger generation, which feels anxious about a lack of employment options, goes to university. Subsequently, as mentioned above, the university attendance rate in Japan increased during the 1990s. University students in Japan are mainly the younger generation, and it is quite rare to find people who entered university for the purpose of lifelong learning.

Although the unemployment rate in Japan was higher than the Netherlands, Sweden, the United Kingdom and the United States for quite a while, it is currently lower. However, the anxiety over unemployment that young university graduates feel is not only due to increasing unemployment rates, but also to the unstable conditions caused by increases in temporary employment. Social changes, which are not measurable by unemployment rates, are having great impacts on the younger generation in Japan.

A comparison of permanent full-time and temporary part-time employment shows that permanent employment increased until 1997, but has continued to decrease since then, while the number of temporary or casual jobs has increased continually. The proportion of temporary jobs has increased, from 2.0% in 1990 to 35.4% in 2011 (Figure 7.8). Currently, more than one in three people employed in industries other than agriculture and forestry is a temporary or casual employee. The rate of casual employment for the population aged 15-24, both male and female, has increased rapidly, which had become a social issue.
The school dropout rate in higher education is 10%, which is low in comparison to the average rate of 31% among OECD member countries (OECD, 2008). The goal to increase the ratio of people who enter higher education institutions and, at the same time, to decrease the school dropout rate, has already been achieved to a large extent in Japan. Therefore, it is believed that, in order to eliminate the younger generation’s anxieties about employment, higher education institutions should play more positive roles. Such circumstances lead to the hope that higher education institutions will become involved in VET.
What kind of reform can higher education institutions make so that companies and administrative institutions change their views on human resources and VET and help younger people avoid the social problems associated with not having stability in work? The Research Centre for the Local Public Human Resources and Policy Development (LORC), Ryukoku University was established in 2003 in order to respond to this question as one of its most important research missions.

Funded by Ryukoku University and the Japanese Ministry of Education, Culture, Sports, Science and Technology (MEXT), the centre started its activities not only as research studies, but also to make practical policy recommendations as a research centre that interacts with local communities. The main features of LORC’s approaches are, firstly, that it carries out research studies that attempt to link the solutions of local social issues and human resources. Secondly, research outcomes are to be shared through partnership and collaboration between organisations that belong to various sectors such as local governments, local communities, non-profit organisations (NPOs) and business associations.

Kyoto City, where LORC is located, is a historical city, and at the same time, a university city. According to the FY 2009 general survey of schools, there are 37 universities and colleges in Kyoto. Kyoto has the second largest number of universities and students after Tokyo, and 139 237 students commute to Kyoto City. Approximately 10% of Kyoto City’s total population of 1 470 000 are university students and university professors.

According to the same general survey of schools (FY 2009), there are 48 universities and colleges in Kyoto Prefecture. The universities, including the 37 universities in Kyoto City mentioned above, which have more than one campus are counted based on the location of their headquarters. Most universities and colleges are situated in the southern area of Kyoto Prefecture. In the Northern Area of Kyoto Prefecture, there is only one university and one college.

In considering the role to be played by higher education institutions in human resources and VET, it is necessary to take these features into account. LORC proposed to carry out a collaborative project in order to realise research outcomes for nine universities in Kyoto Prefecture which have social science departments. Those involved are Kyoto University, Kyoto Prefectural University, Kyoto Sangyo University, Kyoto Tachibana University, Kyoto Bunkyo University, Seibi University, Doshisha University, Bukyko University and Ryukoku University. A series of recommendations were developed in response to three development phases.

In the first phase of LORC (2003-07), through partnership and collaboration among various sectors, a system for human resources to tackle local issues was proposed. In order to foster the human resources that have civil and public minds, an education programme targeting master’s programmes was developed. It was also pointed out that it was necessary to establish a framework that will be recognised socially as well as academically, to ensure the quality of qualifications.

The second phase (2007-10) focused on the socialisation and realisation of research outcomes. It was concluded that the framework to be developed in the Kyoto area should be a qualification framework related to the European Qualification Framework (EQF). To achieve these goals, a platform for collaboration with local universities was established, involving nine universities, one university’s collaborating organisation, four economic groups, two local governments, as well as one local government’s collaborating organisation.
LORC also recommended the development of an educational programme linked to general education at Levels 5-7 of EQF in the field related to policy science. In order to ensure the competence of learners, as well as to encourage recognition of the qualifications, the Consortium for Local Public Human Resources Development (COLPU) was established as an institution for public recognition.

The third phase (since 2010), pursues the development of more advanced educational programmes for human resource cultivation, to match the needs of local communities. Using the Northern Area of Kyoto Prefecture as a field site, as it is an area in which population reduction and economic and social decline are seen, a “Kyoto Model” is being developed and carried out, which links solutions to social problems with training in human resources.

Derived from the platform of universities’ local collaborations, the Community and University Alliance for the Regeneration of the Northern Kyoto Area (CUANKA) was established in 2012 as a formal organisation for collaboration. In order to develop the projects of CUANKA, the nine participating universities received subsidies from MEXT together with funds from local governments for individual projects.

The Kyoto Model (Figure 7.9) that LORC recommends is intended to foster human resources expertise to allow participation in policy making and, simultaneously, implement processes for solving problems in local communities as a process of university education and VET. Through collaborations between universities and stakeholders in local communities, learners will find local agendas and design policies as well as implement them. Students will not only experience practical involvement, but also study academic approaches and practical policy analyses at universities.

Figure 7.9. Universities’ local collaborations: The “Kyoto Model”
In the Kyoto Model, universities develop and provide the educational programmes which are equivalent to Level 5-7 of EQF, and the local communities provide the learners with the opportunities for practical involvement. The learners will earn qualifications, obtained through their involvement in solving the problems of local communities, which are certified by COLPU.

If the Kyoto Model functions well, it will enable the human resources graduates who have certain knowledge, skills and competences that are helpful for problem-solving in local communities to find work in those communities. Such graduates are not merely competent workers: they have certain roles to play in society.

The keys to success for the Kyoto Model are whether or not universities can develop policies that help solve local problems, and whether it is possible for local communities to welcome and accept such human resources. By linking the research resources of nine universities, it is hoped that a collaborative university system will be established that can respond to various local needs. CUANKA is considering ways to utilise the human resources skills developed there.

The Kyoto Model will demonstrate roles to be played by higher education institutions as companies and administrative institutions change their understanding of human resource development and VET and their importance in helping with social issues such as employment for younger people and a declining population together with economic and social stagnation.

**Regeneration of Northern Kyoto Area (CUANKA): Trialling the Community-Universities Alliance**

*The critical situation that local communities face in the Northern Area of Kyoto Prefecture*

The Northern Area of Kyoto Prefecture is a typical example of the declining Japanese population problem. Compared to other Japanese local areas, this was a rich area for around 1500 years. The Northern Area of Kyoto Prefecture was very close to the former Japanese political centre (Nara and Kyoto) and Japanese economic centre (Osaka). Trade with Korea and the People's Republic of China in ancient days, shipping trade around the Sea of Japan in the middle ages and Edo era, and the transport of products provided the Northern Area of Kyoto Prefecture with a distinct advantage.

However, the area has changed greatly, because of Japan's rapid economic growth after World War II. The traditional trading between Japan and the Asian continent was lost due to the Cold War between the east and the west, which meant there was a decline in trade. Japan’s growth drained young labour forces from the local areas, including the rural areas, to a large extent. This led to the so-called dual structures of Japanese society, in which Japan could not escape from the phenomenon of rich urban areas and deteriorating economic and social rural environments. Moreover, advancing industrial structures with their associated mass production and mass consumption, as well as shifts in the transport system from rail services to a rapid transit system of cars and expressways, meant that local central cities like Fukuchiyama became disadvantaged areas that cannot recover easily. In this way, the Northern Area of Kyoto Prefecture has become symbolic of the depressed areas among local cities and rural areas.

The following section outlines how CUANKA was established to solve these various social problems which are becoming more prominent due to the ageing society and shrinking population.

**CUANKA**

Approximately 60 universities are located in Kyoto Prefecture, and research and education activities of a high standard are carried out here. In Kyoto City, since 1997, there has also been the Consortium of Universities in Kyoto, which is a public interest incorporated foundation that carries out research and education as well as local socially supportive activities. A large-scale international research project on
sustainable social systems has been conducted since 2003, funded by MEXT, which led to the establishment of LORC. Since 2008, supported by MEXT, a strategic university alliance project relating to human resource development and the establishment of a qualification system in a partnership society has been carried out collaboratively by nine public policy universities.

Through such projects, the necessity for “global public human resources”, highly skilled workers who can take a lead in solving problems through cross-sectional activities, has become clear. Such problems include numerous issues that local communities may face in the globalising world. This led to the establishment of a system to foster “global public human resources” based on collaboration between industry, government, academia and citizens in Kyoto. The system has already established a qualification system, based on the human resource development curriculums of universities, which corresponds to Levels 5-7 of the European Qualification Framework in the EU. Since 2010, COLPU, as a core institution, has taken responsibility for operating the system.

Based on outcomes from the human resource development system of “regional qualification framework for policy making” in Kyoto, CUANKA attempts to solve problems in the Northern Area of Kyoto Prefecture. Comprehensive and consistent co-operation between stakeholders and local universities promote the projects outlined below, which aim to advance the reform of university education programmes as well as human resources development (Figure 7.10).

CUANKA’s three main activities are:

1. Fostering global public human resources that can respond to various issues in the Northern Area of Kyoto Prefecture;

2. Establishing a consistent collaborative system of industries, governments, academia and citizens in order to promote urban-rural networking and to utilise cross-sectional human resources; and

3. Solving local problems and revitalising local communities.

CUANKA is composed of local universities and stakeholders involved in community development in the Northern Area of Kyoto Prefecture (Figure 7.11). The operations of CUANKA are summarised as:

1. appoint co-ordinators for each local area and university;

2. establish university collaboration offices and facilities for locals and universities to network in the Northern Area of Kyoto Prefecture;

3. Have universities carry out studies and research that are designed to help solve local issues collaboratively; and

4. Kyoto Prefecture provides basic financial support and works with CUANKA at the project level.
Figure 7.10. Local communities' and universities' collaboration for particular problems and social resources groups

Source: Author
CUANKA conducts the actual project so that universities and local communities can share mutual benefits through collaborative co-operation, targeting the Northern Area of Kyoto Prefecture. University-local partnerships can respond freely to the characteristics and scale of the problems. The financial resources necessary to implement the projects are available from various sources. They include government subsidies (including MEXT), subsidies through local grants from Kyoto Prefecture, the resources of local municipalities and relevant groups, as well as grants from private foundations.

CUANKA conducted four different types of pilot projects in order to have a broad base:

1. Whole Area Type: Leadership programme to promote entrepreneurship and to encourage local activities, implemented by Kyoto Prefecture and COLPU, sponsored by Kyoto Prefecture;

2. Allied Area Type -1: Research and analysis of the structure of consumer behaviour to build up an innovative commercial policy, implemented by two universities, three cities, three chambers of commerce and COLPU, sponsored by three cities and MEXT;

3. Allied Area Type -2: Aims to develop eco-tourism with motor driven bicycles supported by a renewable energy system, implemented by two universities, Kyoto Prefecture, three cities and three cities’ tourist offices, the local railway company and COLPU, sponsored by Kyoto Prefecture, COLPU and MEXT; and
4. Single Area 1 Issue Type: Local regeneration by establishing a system for barrier-free tourism in Miyazu City, implemented by two universities, Kyoto Prefecture, Miyazu City, Miyazu City Chamber of Commerce, a tour operator and COLPU, sponsored by Kyoto Prefecture, MEXT and COLPU.

The areas subsidised by MEXT in 2012 as university collaboration projects are:

1. local regeneration through networking between universities and locals, utilising Satoyama resources;
2. policy marketing research projects;
3. 1 300th anniversary project for Tango’s foundation;
4. formulating a business model to promote “sport tourism” in the Kita Kinki area;
5. building residential-type facilities for local-university networking; and
6. introduction of renewable energy to local communities.

CUANKA’s operations have just begun. It is hoped that declining areas will be revived by supporting social entrepreneurs, fostering green industries and human resource development to enhance social activities in terms of quality and quantity.

Policy implications and recommendations

Policy implications

In the Northern Area, which is declining economically and socially, tertiary education institutions and human resources are lacking. The case of Kyoto Prefecture highlights the importance of establishing the mechanisms (regional capacities) by which universities located in urban areas can become involved in local affairs. They could tackle local problems such as the creation of employment opportunities and help define and meet aged care needs, as well as engage in environmental conservation, among other issues, by forging networks between local stakeholders, NPOs, local businesses and community organisations.

The case of Kyoto Prefecture is unique in that numerous universities are establishing multi-level collaborative networks by linking their special fields of study and laboratories. Universities are doing more than providing knowledge and human resources to the area unilaterally. In the “Kyoto Model”, universities gain new knowledge by setting the area as their target for study while at the same time students studying local affairs and urban policies gain “training on the spot”. Students can receive training to formulate local and urban policies and to solve local issues practically. The “Kyoto Model” is advantageous in that universities and local communities are in a reciprocal relationship.

The Northern Area of Kyoto Prefecture is an area which is rich in nature, yet has an ageing and rapidly decreasing population. In order to attract the younger generation, it will be vital to create employment opportunities and jobs for both the elderly and the young in the future. At the same time, the “Kyoto Model” will be challenged to decide how to establish green markets (environment) and silver markets (labour markets or consumer markets for the elderly). Some experimental and challenging efforts are being made, but the question is how to create a surge which can lead to local regeneration in the future.
In the “Kyoto Model”, in order to ensure the practical abilities of students, “on-the-spot” training is provided, particularly focusing on formulating policies. Universities are also often accepted by local communities as being a recognised public policy expert. The aim is to foster highly educated people, mainly at master’s level, who can take the lead in the local regeneration process, by being positively committed to depressed areas faced with social and economic difficulties.

**Policy recommendations**

1. Demographic change, which results in population reduction and ageing in this case, is caused by diverse conditions. Due to adjustments in the industrial structure, production sites have been moved overseas. Low birth rates have accelerated because of the change in values in people’s lives. Additionally, the suburbanisation of housing in metropolitan areas often leads to lower numbers of people living in the central cities. Therefore, the policies pursuant to the sustainability of shrinking cities should be multi-dimensional, and urban policy studies need to be interdisciplinary. Additionally, with regard to government, in order to respond to issues efficiently and effectively, it is necessary to determine the appropriate scale and level of approach.

2. Local cities experiencing decreasing populations, and economic and social decline for various reasons, rely on public investment and still face the difficulty of attracting private investment. What is needed for revitalisation and regeneration is economic and social development which makes use of historical, geographical and natural attributes. In other words, pursuing the possibility of endogenous development is the only way to survive, enabling the area to capitalise on local features in the era of economic globalisation. By choosing such a path, it will be possible to ensure quality of life for local people.

3. Local cities that have decreasing and ageing populations are faced with the problem of scarce human resources. To utilise limited human resources, it is imperative for local community members, such as local government, economic groups, cultural groups, businesses and non-profit organisations, to be more conscious stakeholders, and to establish the frameworks by which they collaborate with each other. The policy direction that Kyoto Prefecture has taken, making use of the experience and skills of older workers, providing further opportunities for them, and offering them the chance to play active roles in local communities, should be welcomed.

4. Universities, which are storehouses of intellectual and human resources, should contribute to the regeneration of local cities which are facing the problems of demographic change and decline, irrespective of where they are located. In the Northern Area of Kyoto Prefecture, innovative and creative efforts are being made, in that numerous universities outside the areas in question collaborate and form partnerships with local stakeholders to cultivate human resources and conduct studies of regeneration programmes. The exchanges between universities and local communities have brought about numerous creative projects. The outcomes of such efforts can be exported to others as the “Kyoto Model”.

5. One of the “Kyoto Model’s” weaknesses could be in regard to the effort to create new employment, which should be one future policy agenda. Local cities with rural areas and beautiful countryside have natural assets. It is necessary to create new businesses that make the most of the green assets, develop opportunities for the elderly to work and generate consumer markets for the elderly (generally called “silver markets”), at the policy level. Further study is needed in this regard.
6. It is difficult for one single city to solve the issues of demographic change and sustainability. It is essential to develop collaboration between cities, which can respond to issues at the city region level. Additionally, it is necessary to build diverse networks with metropolitan cities in remote places. Kyoto Prefecture needs: more positive attempts to build a distribution system by which organic agricultural projects are sold directly to people living in urban areas; the development of agritourism; and extension of housing subsidies which encourage settlement from urban areas.

7. Lastly, statistical data which ensures quality and comparability and helps to formulate policies is needed. Ensuring comparability of knowledge bases regarding how and by how much cities are shrinking enables tailor-made policies and measures to be designed, and contributes to practical and efficient policy decisions. For this, measurement methodologies also need to be examined, including scales for the analysis.

NOTES

i This chapter was contributed by the Research Centre for the Local Public Human Resources and Policy Development (LORC) Ryukoku University, Japan

ii Japanese fiscal year - period from April and finishes at the end of March the following year. Also known as FY.
References


CHAPTER 8:

GENERATION SHIFT IN THE SWEDISH LABOUR MARKET

There is a large generational shift in the Swedish labour market that will lead to a higher share of retirements in different sectors, regions and professions than in previous decades. As a result of the slower growth of the working-age population, the labour supply is expanding less rapidly. Future increases in the working population will consist of foreign-born residents while the number of those born in Sweden is expected to decrease. Case studies of two particularly affected regions indicate that the addition of labour to these labour markets may be halved over a 15-year period, while an increasing number of retirements will create vacancies that have to be filled. Further efforts are needed nationally and especially regionally to meet future labour demand in particularly affected regions. The analysis highlights various measures which can be taken in order to alter future labour market prospects regarding the supply of labour in the sense that more persons become available for work.
This chapter highlights the general availability of labour and retirements nationally, regionally and from a local perspective in Sweden. The growth of the working-age population will have consequences for labour supply and future employment trends. Without a continuous increase in the labour supply which would make it possible to increase employment, it will be difficult to achieve improvements in economic welfare. A generational shift will arise when the so-called baby boomer generation from the 1940s leaves the labour market. The purpose of this analysis is to describe future developments if current labour market trends persist. The chapter highlights various measures which can be taken in order to alter future labour market prospects regarding the supply of labour in the sense that more persons become available for work.

The generational shift and large-scale retirement

The total population of Sweden is expected to increase by 1 140 000 persons between 2011 and 2025 and reach 10 535 000 in 2025. This is less than half of the increase during the previous 15-year period. The total increase in the population is determined by a positive net birth rate as well as by net migration.

The net birth rate is calculated to increase from less than 30% to about 60%, while net migration is estimated to decrease from 70% to 40%, both expressed as a share of the change of total population up to 2025. The fertility rate in Sweden was 1.9% in 2012, which is high compared with other European countries. Sweden needs a long-term fertility rate of 2.1 to maintain an unchanged level of population.

The supply of labour has increased significantly since the end of the 1990s, especially over the last six years. This is the result of favourable developments in the labour market combined with a rapid growth of the working-age population (16-64 years old). The increase in the working-age population in recent years is mainly attributable to large net immigration. In the future, increases in the working-age population will be dependent on persons born in other countries whereas the number of persons born in Sweden will continue to decline. However, the structure of immigration has changed. Nowadays it consists mainly of labour migrants rather than the inflow of refugees which had previously predominated.

Employment growth has risen sharply after the financial crisis in 2009, by about 120 000 people (2.8%) between 2009 and 2012. The strong increase in employment after the financial crisis has not led to major shortages of jobseekers on the labour market and has therefore not had a significant negative impact on the economy. By Swedish standards, unemployment is high despite the large increase in employment. In 2012, the unemployment rate in Sweden was 8.0%, compared to 8.7% in 2010. These figures are below the European average. The reason that the unemployment rate has not fallen to a greater extent is due to the rapid growth of labour supply, which has increased steadily since the late 1990s. From 2010 to 2012, the labour force increased by a total of about 113 000 persons (2.4%). The labour force participation rate reached 81.5% in 2012 while the employment rate rose to 74.9%. These levels are among the highest in Europe.

The long-term employment policy focuses on measures to strengthen the supply of labour since experience shows that labour supply will have major effects on the long-run growth of employment at a time when the working-age population is expected to grow more slowly. During the first decade of the new century and especially after 2006, reforms were introduced for the specific purpose of increasing the labour supply. New reforms have been introduced in areas such as unemployment insurance, health insurance and labour market programmes. An increase in the number of jobseekers is expected to improve matching in the labour market. During the same period, labour market policy has provided various forms of incentives to support active jobseeking.
Large-scale retirement in the Swedish labour market

According to population forecasts by Statistics Sweden (SCB) (2012), the working-age population is expected to grow much less rapidly over the period 2011-25 while at the same time a substantial number of elderly workers will retire from the labour market. This anticipated growth in retirements will reduce the rate of increase in the working-age population. If current labour market behaviour remains unchanged, the increase in labour supply will slow down, which will reduce the potential supply of worked hours. If this trend continues, it might in turn limit GDP growth. In addition, the generational shift will impact on different industries and regions differently. There will be a greater impact on certain parts of the labour market than on others. Signs of growing recruitment problems may become evident in the most affected sectors.

All in all, over 1 600 000 people are expected to leave the labour market due to retirement from 2011-25, compared to approximately 1 300 000 retirements from 1996-2010. However, there are measures available to try to alleviate the effects of this generational shift. There is no single solution, but rather a series of different steps that may help produce a positive outcome (Public Employment Service, 2010).

The labour force has increased over the past decades due to the rapid growth of the working-age population. These conditions will change over the next few decades. The demographic impact on the labour supply will diminish due to weaker population growth. The age structure of the population will no longer have the same effect on the size of the labour force. For certain years, there will even be a risk of a negative demographic contribution to the labour force. In the long term, this means that the conditions for replacing the retiring labour force and increasing the employment rate will deteriorate significantly, especially in certain regions. Thus, the generational shift will be a major challenge since the inflow of young persons to the labour force will not be as large as during previous decades.

The increasing importance of migrants in the labour market

During the second decade of this century, the growth of the working-age population will slow down (Figure 8.1). These changes also differ on a regional basis whereby the working-age population will grow at a slower pace in all 21 counties up until 2025 with many counties expected to experience a decline. The largest decline is expected in the counties of Norrbotten, Gotland and Dalarna. On the other hand, there will be an increase in the working-age population in the county of Stockholm. All in all, this indicates that the discrepancies between regions when it comes to tackling demographic changes are expected to grow during the period to 2025.

The final outcome will be determined by the size of net immigration during the period. From 2006 to 2012, net immigration to Sweden was considerably higher than the historic average, and even higher than was estimated in the population forecasts. It is always difficult to anticipate the size of net immigration in any population forecast. Even in scenarios with higher net immigration, persons of working age will still grow more slowly from 2010 to 2030. If this pattern becomes a reality, it will limit the opportunities to increase labour supply and employment rates in Sweden as a whole.

The modest population growth rate in the near future means that the underlying demographic growth of the labour supply will diminish from 2011-25. After 2020, there will only be limited demographic additions to the labour force. Historically (Public Employment Service, 2004), the demographic addition to the labour force due to population changes has been less than 20 000 per annum since the beginning of the 1970s. However, since 1990, the average addition has been somewhat higher, or a little over 20 000 people per annum.
Regarding the period 2011-25, indicators suggest that the demographic inflow of labour will be considerably lower. This would further limit opportunities to increase the labour supply in the long term, in response to population development. In order to maintain the labour supply growth rate, labour market participation must increase within the existing population and/or net migration must increase to higher levels.

A demographic projection ii (Figure 8.2) indicates that the labour force will grow on average by approximately 10 000 persons annually from 2011-25, based on the latest population forecast (2012) from Statistics Sweden. From 2020-25, the rate will fall to a little over 5 000 persons annually, which corresponds to a quarter of long-term historical levels. Thus, after 2020, the demographic contribution to the labour force will be even weaker, which means that employment growth risks coming to a complete halt in many regions. As mentioned above, it is essential to maintain an annual contribution to the labour force of at least 20 000 people in order to maintain a rate of employment growth on par with long-term historical levels. On a regional basis, based on current age-related behaviour patterns and activity rates, the labour force is expected to decline in nine counties in absolute terms. More than half of those counties will have limited scope to increase their labour supply through population growth. The labour supply, therefore, must in those cases mainly grow by increasing levels of participation within the existing population. In the longer term, this leads to harder conditions for improving employment rates in many regions, which in turn risks curbing regional growth.

From 2011-25, the demographic contribution of persons in the labour force will exclusively comprise foreign-born residents, totalling about 255 000 people. The number of people born in Sweden will fall during the period, constituting a decline of about 105 000 people (Figure 8.3). Totalling these two population groups, the overall contribution to the labour force will be approximately 150 000 persons, i.e. an additional 10 000 people per year on average. In all counties except Norrbotten, the number of foreign-born in the labour force is expected to rise until 2025, with many regions growing over 30% over the next few years. Over the coming years, the number of domestic born in the labour force will only grow in urban regions such as Stockholm and Skåne. In the rest of the country, the number of domestic born in the labour force will decline, and in several regions in northern Sweden, the decline is expected to exceed 10% from 2011-25 (Figure 8.4).
Figure 8.3. Native and foreign born in Sweden (2012-25)


Figure 8.4. Native and foreign born in Sweden by counties (%)

Thus, the changes to the future labour force concern the size of the contribution represented by the number of foreign born in the population, and their opportunities to enter the labour market. However, there are considerable opportunities to increase the labour market participation of several categories of foreign-born residents who are already in the country.

**Industry and gender factors in retirement**

**Trends in retirement**

All in all, over 1,600,000 people are expected to leave the labour market due to retirement from 2011-25, compared to approximately 1,300,000 retirees from 1996-2010 (Figure 8.5). In other words, there will be 300,000 additional retirees in the period from 2011 to 2025 than there were from 1996-2010. This also means that, for the first time in modern history, the number of youth entering the labour market will be about the same as the number of elderly retirees in the workforce during the period 2017-25, i.e. a ratio of less than one between the incoming and outgoing labour. Previous decades have always had a ratio in excess of one. The maintenance of a higher level of youth entrants than retirees is a fundamental condition for long-term labour force and employment growth (hours worked) as well as for achieving good economic welfare.

![Figure 8.5. Inflow of young persons and outflow of retirees in the Swedish labour market](image)

On a regional basis, Sweden will experience a large number of retirements on grounds of age at a regional/local level. There will be considerable differences between labour markets: for the country as a whole, 35% of the labour force will retire between 2011 and 2025. The largest proportion of retirees is expected in the counties of Norrbotten and Dalarna, where close to 40% of the labour market is expected to retire during that period. An additional six counties will also see high levels of retirements on grounds of age. The exception is the county of Stockholm, where 32% of the labour force is expected to retire during the same period.
**Gender discrepancies**

There are gender differences in the ratio between entries and retirements in the Swedish labour market. For women, there is a trend reversal in the net inflow to the labour market in 2013 when the ratio falls below one. For men, the ratio does not fall below one until 2018. This is linked to the fact that the labour market participation rate for women, particularly foreign-born women, is already at a lower level than it is for foreign-born men, coupled with the fact that women leave the labour market earlier than men. The gap between entries and retirements among women will grow until 2025. The men will not see a corresponding gap over the next few years since labour force inflow will for most years remain higher than the outflow up until 2018. After 2018, the ratio falls below one and will stay below one for the remainder of the period. The conclusion is that the lower ratios will primarily affect women. The contribution of young women to the labour market will be too low compared to their current labour market participation. A greater number of women can enter the labour force compared to the rate among men, which means there is an unused potential here, primarily among foreign-born women.

**Dependency ratios**

Population growth up until 2025 has consistently been revised upwards in the latest population forecasts, which has affected the projection of dependency ratios in Sweden. The reason is that net immigration over the past few years has significantly exceeded the assumptions made in different forecasts. The diminishing contribution of the working-age population, coupled with a large increase of the non-working-age population will have consequences for dependency ratios, which is a ratio of the whole population against the number of people in work.\textsuperscript{iv}

The dependency ratio from 2000-10 has fluctuated at around 2.5; meaning that one person has 1.5 person dependants besides himself/herself. Over the next two decades and beyond 2030, the ratio will increase from 2.45 in 2012. The extent to which the ratio will increase is linked to population growth as well as the contributions to the labour market. From 2012-20, the employment rate needs to grow by an average of 20 000 people\textsuperscript{v} per annum in order to maintain the dependency ratio at its present level (2.45). Figure 8.6 illustrates the future changes in the dependency ratio from 2012-50, with two different projections, one made in 2008 and one made in 2012, whereby significant differences occur. The dependency ratio does not grow as much in the 2012 projection as it did in the projection from 2008. This is because of a higher population growth rate, as an assumption (due to higher net immigration) in the 2012 projection. In the 2008 projection, the dependency ratio rises to 2.8 up until 2030, i.e. one employed person will have almost two additional dependants. That ratio has fallen in the 2012 projection and will level out at a little over 2.5. In that projection, the dependency ratio will approximately peak at the 2009 level, equivalent to the ratio for the first years of the century.
As illustrated in Figure 8.6, future population changes will have a major and critical impact on dependency ratio developments. There is also an additional factor that has affected the discrepancies for these two projections. A higher proportion of the working-age population found employment between 2008 and 2012. It is therefore essential to maintain or increase the employment rate for the working-age population (by increasing labour market participation). This will result in scenarios that limit the increase in the dependency ratio, in spite of an ageing population, and the subsequent additional strain on the welfare system.

The effects of employment sector

Agriculture and forestry sector

The distribution of retirees according to age varies between different industries in the Swedish labour market (Figure 8.7). The fisheries, agricultural and forestry industries will see the highest share of retirees. These industries constitute a small part of the Swedish labour market and employ less than 2% of total employment. Nevertheless, around 42% of the 70 000 employed will retire between 2011 and 2025, corresponding to almost 30 000 persons. The share can be compared to 35% for the labour market as a whole, or the historical average of 30%.
Retirement on the grounds of age is almost as high within the public sector as within agriculture and forestry. From 2011 to 2025, around 41% of public sector employees will retire from the labour market. This corresponds to around 605,000 persons. The current level of inflow of labour to the sector would mean a contribution of around 435,000 persons. This means that the difference between inflow and outflow amounts to over 175,000 people. If the current situation prevails, the public sector will face significant difficulties in replacing all of the retirees. It would require a significantly higher inflow of young persons in the sector.

Health and social care sector

The greatest number of public sector retirees is expected in the health and social care sector. This is also where the largest gap between retirees and the inflow of new employees occurs. During the period, 42% of the sector’s labour force is expected to retire, which corresponds to around 410,000 persons. The current inflow of new employees to the sector would be of the order of 270,000 persons, which means a discrepancy of 140,000 employees, i.e. a gap of almost 10,000 persons a year. In the period to 2025, the proportion of older people aged over 80 in Sweden will increase by 36%, which will increase the needs for care for the elderly. All this means that the health and social care sector will be faced with a significant deficit if the current level of inflow remains unchanged. This may lead to considerable difficulties in replacing the retiring employees. There are also increasing demands on health and social care as the baby boomers from the 1940s are expected to require more of these services, which would necessitate greater recruitment. There is also a regional aspect to all these labour needs – the share of retirees is higher in sparsely populated regions that experience increasing shortages of new labour. This recruitment dilemma is significantly difficult to resolve in the light of a steadily diminishing labour supply in rural regions.

Education sector

In the education sector, the number of retirees is somewhat lower than in health and social care, around 38%, which corresponds to almost 140 000 people. The current inflow provides 120 000 new employees. This would mean a deficit of over 20 000 people, i.e. about 1 500 more per year have to enter the education sector in order to compensate for retirements.

The public sector employs around 150 000 people. Of those, around 60 000, or as much as 41%, will retire from the labour market on grounds of age from 2011-25. The inflow is estimated to be 50 000 people, which means a discrepancy of 10 000. This corresponds to almost 1 000 people per year. There are uncertainties in this sector about the extent to which it will be possible to compensate for retirements. Future developments in this sector depend very much on political decisions.

Manufacturing sector

The number of retirees leaving the manufacturing sector is at roughly the same level as the labour market as a whole. From 2011-25, 34% will retire from the labour market which corresponds to around 240 000 people. The current inflow of labour is of the order of 200 000 new employees. This means that the gap between inflow and retirements, under current conditions, amounts to 40 000 people. To fill this gap would require almost 3 000 additional entrants into the manufacturing sector annually. However, the manufacturing sector is tending to reduce its workforce, which suggests that the future inflow may be sufficient to compensate for retirements. However, in all probability, there will continue to be a shortfall in relation to occupations requiring a higher education. The primary interest of the manufacturing sector will rather be to focus on finding employees who have the right skill sets. However, young people appear to be reluctant to embark in long industry-related educational programmes. Present numbers enrolling in such programmes are far too low to cover the labour needs of occupations which have higher skill requirements.

Construction sector

Previously, the construction industry had a high average age level. As a result of the recruitment efforts made between 2006 and 2011, it has fallen. Between 2011 and 2025, the number of retirees in the construction industry is estimated to be 34%, which is equivalent to 87 000 persons. This figure is somewhat lower than the labour market average. Under current conditions, the inflow of new recruits will lead to a shortfall of about 10 000 persons. In other words, there will be a continuing need to recruit personnel into the construction industry in order to maintain employment levels. However, estimates indicate that the construction industry will grow in the long term and will need an inflow of labour considerably higher than the figure of almost 90 000 retirements.

Private service sector

The private service sector is a large and heterogeneous industry, employing around 1.8 million people, making it the largest sector in the Swedish labour market. The number of retirees is estimated at 515 000, or 29%, which is somewhat lower than in other sectors due to the lower average age in large parts of the private service sector. In the retail as well as hotel and restaurant sectors, retirement levels are at 26% and 17% respectively. In the business services, leasing and computer consultancy sectors, the average age is lower than for the labour market as a whole and the share of retirees is around 30%, compared to 33% in personal services.

The highest share of retirements on grounds of age in the private service sector is found in the transport industry at 36%, with over 95 000 people retiring from the labour market through 2025. With the currently estimated inflow of new labour, a gap of almost 20 000 people must be bridged in order to maintain employment. All other service industries have been able to meet their labour requirements and if
jobseekers continue to apply to those industries to the same extent as before, labour supply will be sufficient from a national perspective. Regionally, however, imbalances may occur in regions that have less access to new labour.

The average age of the self-employed is high. According to estimates, almost half of them are projected to leave the labour market by 2025. However, this projection is uncertain since many self-employed people continue to work beyond retirement age. The precise age at which self-employed people discontinue their businesses may vary considerably depending on the nature of the operations. The conclusion that many of the self-employed will retire from the labour market is correct, but the extent to which it will happen and at what point in time is difficult to quantify.

Local case studies

The case studies describe the situation in two local labour markets, one in Dalarna County and one in Norrbotten County. These are the two counties that are the most affected by the generational shift in Sweden. The selected municipalities will therefore provide an appropriate reflection of local labour markets affected by the generational shift in Sweden. The first case study covers developments in three municipalities in Dalarna, which are suitable representatives for the county. Those municipalities are Mora, Älvdalen and Orsa. All three are part of the long-term growth in the tourist industry as well as ongoing changes in other specific industries. The second case study in Norrbotten covers the demographic challenges faced by the municipalities of Kiruna and Pajala. These two municipalities are particularly interesting as mining, a fast-growing industry which is competing with other sectors for available labour, plays a large role in both.

Case study: Mora, Orsa, Älvdalen in Dalarna County

Dalarna County

The county of Dalarna consists of 15 municipalities and in 2011, the total population in the county reached 276 000. Dalarna is one of the two counties which is the most impacted by the generational shift in the labour market. The average age in the county is high and a substantial proportion of the working-age population will be retiring on grounds of age over the next few years. From 2011-25, almost 40% are expected to retire from the labour market. At the same time, there is an unfavourable population trend in the region.

Since 1995, population figures for the county have fallen by 4%, or more than 13 000 persons. The population under 15 years of age has fallen by more than 20%, corresponding to 13 000 persons, while the working-age population between 16 and 64 has fallen by over 3%, or by 5 500, in the same period. Instead, the number of older people in the county has risen. In 2011, the number of people of 65 years of age or older was 61 000, corresponding to 22% of the county’s population, and their number has grown by 5 000, or almost 9%, since 1995. In particular, the number of people aged 80 or older has increased significantly. Since 1995, this age group has grown by close to 17%.

According to Statistics Sweden’s population forecast, the county’s population will stop falling during the next few years and in 2025, population in the county will total a little over 280 000. Thus, the county’s population is estimated to grow by 1.6%, or by 4 500 persons, from 2011-25. However, there are some differences between the age groups.

The figures for the working-age population (16-64 years old) are expected to continue to fall (Figure 8.8). The number of persons in this age group is expected to fall by almost 10%, or 15 000 people, up until 2025. However, the number of younger people in the county, i.e. people aged from 0-15 years, is expected to grow over the coming years. The increase is estimated at 12%, or close to 6 000 persons. The
The strongest population growth is expected among those aged 65 or older, where figures will grow by 20%, or by 14,000 persons, up until 2025. In 2025, more than 25% of the county’s population will be aged 65 or older, compared to just over 20% in 2011. This projection is based on the assumption that current population trends remain unchanged for the period up until 2025.

**Figure 8.8. Population in the county of Dalarna (Sweden) (1968-2011)**

![Population Chart]


In 2011, the number of employees in the county of Dalarna was 123,000, which was equivalent to an employment rate for the county of 73%, which is higher than the national average of 72%. Employment in the county fell by close to 5,000, to 121,000, due to the financial crisis of 2009 (Figure 8.9). The manufacturing sector was particularly hard hit and the number of employees in the sector fell by 2,500 in 2009. Since 2009, there has been some recovery in the labour market and employment has risen. However, employment rates in the county are still lower than before the crisis. In the manufacturing sector, where employment rates fell most sharply in 2009, the rates only slowly increased during 2010 and 2011. The strongest employment trend since 2009 has been in agriculture and forestry, business services and construction.
The health and social care sector as well as manufacturing are the two primary sectors in terms of employment. These two sectors have a higher share of employment than in the nation as a whole along with the construction industry, which employs around 8%. Over the past few years, employment has mostly grown in agriculture and forestry as well as in IT and business services, where 3.5% and 6.0% respectively worked in 2011. Retail trade employed a little over 11%, making retail the third largest sector in the county (Figure 8.10).

Mora, Orsa and Älvdalen

The first case study covers developments in three municipalities in the county of Dalarna, which are suitable representatives for the county. Those municipalities are Mora, Älvdalen and Orsa. They are all connected to the growth of the tourist industry as well as other specific industries in the region. They are facing considerable challenges in the near future associated with the large numbers of older people leaving the labour market together with unfavourable population trends. The municipality of Mora is the largest in terms of population. In 2011, Mora’s population was 20 000, Älvdalen’s 7 000 and Orsa’s close to 7 000. This means that 12% of the county’s population lived in one of these three municipalities.

Table 8.1. Mora, Älvdalen and Orsa local facts

<table>
<thead>
<tr>
<th>Facts</th>
<th>Mora</th>
<th>Älvdalen</th>
<th>Orsa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total population (2011)</td>
<td>20 107</td>
<td>7 184</td>
<td>6 867</td>
</tr>
<tr>
<td>Population change 1995-2011</td>
<td>-4.0%</td>
<td>-13.0%</td>
<td>-7.0%</td>
</tr>
<tr>
<td>Labour market participation 16-64 year olds (2011)</td>
<td>83.6%</td>
<td>83.7%</td>
<td>78.4%</td>
</tr>
<tr>
<td>-domestic born men</td>
<td>86.3%</td>
<td>84.4%</td>
<td>81.5%</td>
</tr>
<tr>
<td>-domestic born women</td>
<td>82.5%</td>
<td>84.5%</td>
<td>77.5%</td>
</tr>
<tr>
<td>-foreign-born men</td>
<td>74.9%</td>
<td>70.9%</td>
<td>67.7%</td>
</tr>
<tr>
<td>-foreign-born women</td>
<td>68.8%</td>
<td>74.5%</td>
<td>63.1%</td>
</tr>
<tr>
<td>Employment rates 16-64 year olds (2011)</td>
<td>74.6%</td>
<td>73.3%</td>
<td>68.0%</td>
</tr>
<tr>
<td>-men</td>
<td>75.6%</td>
<td>73.2%</td>
<td>69.1%</td>
</tr>
<tr>
<td>-women</td>
<td>73.5%</td>
<td>73.4%</td>
<td>66.8%</td>
</tr>
<tr>
<td>Unemployment (16-64 year olds), Q3 2012(^1)</td>
<td>7.7%</td>
<td>8.3%</td>
<td>9.0%</td>
</tr>
<tr>
<td>-men</td>
<td>8.1%</td>
<td>7.6%</td>
<td>9.2%</td>
</tr>
<tr>
<td>-women</td>
<td>7.3%</td>
<td>9.1%</td>
<td>8.8%</td>
</tr>
<tr>
<td>Retirements 2011-25(^2)</td>
<td>40%</td>
<td>40%</td>
<td>39%</td>
</tr>
</tbody>
</table>

Notes: 1. Total number registered with Arbetsförmedlingen. 2. Share of employed, November 2007.


Differences in employment rates between the municipalities

The share of the population in employment between 16 and 64 years of age (the employment rate), is higher in Dalarna County than in Sweden as a whole. Out of the three municipalities in the case study, the employment rate is the highest in Mora, at 74.6% in 2011. In Älvdalen and Orsa, employment rates were 73.3 and 68.0% respectively. Thus, the employment rate is almost seven percentage points higher in Mora than in Orsa. The employment rate is higher among men than women, except in Älvdalen, where the share of employed women is higher than the share of employed men.

In 2009, employment rates fell across all municipalities (Figure 8.11). They have risen subsequently, due to the fact that the number of persons of working age has fallen (and not because the number of employed in the municipalities has increased). Since 2009, employment rates have risen more rapidly in Mora and Älvdalen than they have in Orsa. However, the employment rates in the municipalities are still lower than before the financial crisis.
The importance of tourism

The industry structure is similar in all three municipalities, but is different in many aspects from the industry structure in the country as a whole (Figure 8.12). The region hosts many small businesses in the manufacturing sector as well as in the tourist industry. A large proportion of the employed also works in the health and social care sector. In Mora, many work in manufacturing. According to the estimates from representatives of the municipalities, the tourist industry has the highest potential for employment growth in the future. The tourist industry is expanding and representatives from the municipalities expect that it will continue to do so over the next five to ten years, which also will have a positive impact on other sectors such as transport, retail trade, and hotels and restaurants. The transport sector is expected to see a positive effect from the growth of the forestry industry as well, which is expected to continue to be important for industry in the whole region, even if the number of people employed by it remains low. Representatives from the municipalities estimate that aggregate employment will increase in the region over the next five to ten years. In order to meet this goal, one of the most important challenges will be to increase the labour force and attract a growing number of graduates to the region.
The growing population share of the elderly

One aspect common to all three municipalities in the case study is a population decline over the past few years. From 1995-2011, the largest population decline, 13%, occurred in the municipality of Älvdalen. In Orsa and Mora, populations declined by 7% and 4% respectively. These figures may be explained in all three municipalities by a declining net birth rate and net outward migration. The fertility rate in the region has been at a level just over 1.9% in recent years, about the same as the national level. Net migration differs quite widely between years, but in recent years it has been slightly positive.

The 0-15 age group accounted for the largest decline in relative population share. The working-age population has also seen a decline in its relative share over the past few years due to the fact that many young people leave the region and move to metropolitan areas.

However, there is a net inflow of people over the age of 30, many whom move to the region due to family connections or the proximity to beautiful natural surroundings. There is also an inflow of people in these age groups due to refugee immigration. The population aged 65 and above has grown in all three municipalities. This means that the elderly constitute a growing share of the population.

According to the population forecast up until 2025 from Statistics Sweden, the composition of the population will change adversely in all three municipalities. The number of people of working age will fall by over 10% from 2011-25. The number of people in the 0-15 year cohort will increase slightly up until 2025 (Figure 8.13). The largest relative increase in population will be seen among people 65 years or older. In both Mora and Orsa, the number of people 65 years or older will grow by 25% until 2025. In Älvdalen, the increase will be 15%. The increase in the over 80 age group is estimated at 35% in the region, which is the same level as for Sweden as a whole. It is important to stress that all of these projected population trends are dependent on current population patterns remaining constant, i.e. the current trends remain unchanged.
Population growth through immigration

The entire net inflow of people of working age for the next few years consists of immigrants (Figure 8.14). In both Mora and Älvdalen, the number of foreign born will grow by 30% until 2025, based on the assumption that these municipalities maintain their current share of net immigration. In Orsa, the increase will be 17%. Over the coming years up until 2017, the number of immigrants of working age in the three municipalities will grow by an average of 50 persons per year. After that, the rate of increase will slow down due to the assumption that immigration as a whole will be lower according to the population forecast.
The number of domestic born people in the labour force will, however, fall by around 15% as a result of demographic changes over the period up until 2025 (Figure 8.15). Thus, there is significant potential among the immigrant population, which is expected to rise over the next few years. However, unemployment among the foreign born is quite high in all three municipalities and there is room to reduce unemployment by making better use of existing labour resources in this group.

There is also room in the municipalities to increase labour market participation among immigrants, not least among non-European women. labour market participation among foreign-born residents is over ten percentage points lower than for those born in Sweden in all three municipalities. Over the next few years, the demographic inflow of labour will consist exclusively of immigrants, while the share of the population born in Sweden will fall during the period up until 2025. The inflow of immigrant labour would increase further if the gap between labour market participation rates for foreign- and domestic born residents was reduced.

Figure 8.15. Combined local study areas: Domestic and foreign born in the labour force

[Graph showing domestic and foreign born in the labour force]


Higher level of retirees than youth entries

Up until 2025, the ratio between inflow and outflow to and from the labour market will be less than one, 0.54, i.e. the number of people retiring due to age will be higher than the number of youth (16-30 years of age) who are expected to enter the labour market. This is an indication that the long-term growth potential of the labour supply is being curtailed.

All in all, nearly 6 000 people will retire on grounds of age in the three municipalities while only 3 000 young people are expected to enter the labour market. This shortfall of about 3 000 people between the inflow of young entrants and the outflow of retirees is about twice the current inflow of labour. If this scenario comes about, both the labour force and employment will suffer long-term decline. There will have to be a change in this trend, otherwise the region will be unable to maintain economic growth and an increasing number of employed. The inflow of labour would have to be at least at the same level as the outflow to maintain the current level of employment in the long term.
High share of retirees in the public sector – labour shortages in some professions

The average age of private sector employees is high in all three municipalities. Mora, Orsa and Älvdalen also have a high share of persons working in the public sector.

Approximately 40% of all employees in the three municipalities are expected to retire on grounds of age through 2025. That is significantly higher than the historical figure of 30%. The share of retirees across different sectors in the three municipalities will be consistently higher than in most sectors in the country as a whole, particularly in the areas of public administration, transport, and health and social care (Figure 8.17).

According to representatives from the municipalities, it will be a considerable challenge to replace all those retiring on grounds of age in the health and social care sector. It may be necessary to recruit labour abroad. There is an insufficient interest in these educational programmes among young people to make up for the retirements. The major challenge is to raise interest in educational programmes and work in the healthcare sector. This will become even more essential once the baby boomers born in the 1940s start requiring healthcare on a large scale. The three municipalities collaborate in recruiting people to work in their own core services. They also collaborate in the area of municipal IT operations. These collaborations reduce the costs for individual municipalities and facilitate recruitment.

The municipalities fear labour shortages in the following sectors, both in the short and in the long term:

- healthcare
- care for the elderly and disabled
- education
- technological consultancy/engineering.

Municipal strategies for increasing the labour supply

The municipalities of Mora, Orsa and Älvdalen are all working actively and in collaboration to introduce measures to facilitate future business developments. The municipalities argue that it is important to continue developing infrastructure in order to attract new business and labour to the region. It is also important to expand the broadband networks in the region.

They also stress the importance of providing good guidance counselling for schoolchildren. The inflow of young people into the local labour market will not be sufficient to make up for all the elderly retirees. It is important that young people entering the labour market have an education that makes them employable. The municipalities foresee difficulties in recruiting labour in certain sectors that require university degrees and they are actively working with the university in the region in order to influence both the content and direction of its programmes. The municipalities are also planning a project in collaboration with Swedish Public Employment Service and the Swedish Social Insurance Agency with the aim of mobilising those who are furthest from the labour market and who currently constitute an unutilised labour resource.

In order to attract people to the region, the municipalities are marketing themselves at trade fairs and conventions. The main attraction of the region is its proximity to wildlife and nature. There is also plenty of undeveloped land, for example in attractive places near lakes and mountains, for housing that might attract valuable labour to the region.

All in all, the municipalities are actively working on facilitating future business development. Some of the measures that aim to increase labour supply and facilitate future recruitment are:

- Joint skill supply project between municipalities in order to facilitate the recruitment of important labour in the region.
- Providing attractive plots for new construction in the region.
• Expanding the fibre optic network in the region, improving IT communication.

• Receiving newcomers to the region – labour market unit and a contact person for every family/person moving there.

• Collaborating between municipalities on public services – IT issues, salaries, water supply, waste management, skill supply in municipality services.

• Co-ordinating between the Swedish Public Employment Service and the Swedish Social Insurance and county interventions for people/labour with special support needs.

**Case study: Kiruna and Pajala in Norrbotten County**

**Norrbotten County**

Norrbotten is the other county, besides Dalarna, that suffers the most from the generational shift in the labour market. The average age of the labour force in the county is high and many people will be retiring from the labour market over the next few years. At the same time, the number of younger members of the population has been falling for some time due to people moving to metropolitan areas, which has led to an unfavourable population pyramid.

The county of Norrbotten is the largest county in Sweden in terms of surface area and covers close to one quarter of Sweden. Norrbotten is one of the counties with the highest rates of population decline over the past few years. Population has fallen every year since the mid-1990s. In 2011, the population was slightly above 248 000.

The working-age population has declined by 7% since 1995, or 12 000 persons, while persons over the age of 65 have increased during the same period. The latter now constitute more than 20% of the population. The number of persons over the age of 80 has also increased by over 30% since 1995.

According to Statistics Sweden’s population forecast, the population will continue to decline over the coming years and by 2025, it will total 239 000. In particular, Statistics Sweden estimates a severe decline among people of working age. This group is estimated to fall by 14%, or close to 21 000. By 2025, the working-age population will total 134 000.

The number of persons between 0 and 15 years of age is estimated to rise slightly over the next few years. However, the most significant population growth will occur among people aged 65 or older, with an estimated increase of 20%, or over 10 000. By 2025, this group is estimated to comprise 64 000 persons. This means that in 2025, more than one quarter of the population in the county will be 65 years or older. This projection for the different age groups assumes that the current population pattern is constant up until 2025, i.e. the current trends remain unchanged (Figure 8.18).
Figure 8.18. Population in the county of Norrbotten by age group

The labour market trends were positive in 2010 and 2011, which is largely attributable to the expansion of the mining industry, e.g. the opening of the new mine in Pajala, which has increased the demand for labour in the region. The number of people in employment (16-64 years of age) in the county was 114 000 in 2011. The employment rate was 73%, which is somewhat higher than the national average (Figure 8.19).

Figure 8.19. Number of employed (16-64 years) in the county of Norrbotten

In the county of Norrbotten, close to 20% of employees work in health and social care and more than 15% work in manufacturing and mining. Other large sectors in the county are education, retail trade and construction, each of which employ around 10% of all employees in the county. Construction and mining as well as agriculture and forestry have seen the highest growth in terms of the number of employees over the past few years. Mining, health and social care as well as agriculture and forestry employ a higher share of the labour force than in the country as a whole (Figure 8.20).

![Figure 8.20. Employment by industry sector in Norrbotten and Sweden](image)


Kiruna and Pajala

Local case studies in the municipalities of Kiruna and Pajala, in the county of Norrbotten from 2011 to 2025, are particularly interesting, as mining plays a large role in both municipalities, competing with other sectors for the available labour. Kiruna has been a mining town since the end of the 19th century and next to the municipality, the mining company is the largest employer in Kiruna. In Pajala, only recently, a new large mine was opened and the first deliveries of iron ore were expected in the beginning of 2013.

The municipality of Kiruna has around 23 000 inhabitants and Pajala a little over 6 000. Both municipalities have seen a decline in population over the past few years. In Pajala, the population fell by over 20% from 1995-2011, while the decline in Kiruna for that period was a little over 10%. A falling net birth rate and negative net migration over recent years are the principal explanation of this negative trend. The fertility rate in the region has been around 1.9% in recent years, which is roughly the same as in Sweden as a whole. Net migration in Pajala, which has been negative for many years, has been reversed recently. There are also better signs regarding net migration in Kiruna. The number of elderly people leaving the labour force in Kiruna and Pajala is also expected to be substantial over the coming years.

<table>
<thead>
<tr>
<th>Table 8.2. Kiruna and Pajala local facts</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Facts</strong></td>
</tr>
<tr>
<td>Total population (2011)</td>
</tr>
<tr>
<td>Population change 1995-2011</td>
</tr>
</tbody>
</table>
Labour market participation 16-64 year olds (2011)
- domestic born men: 89.6% 49.4%
- domestic born women: 86.5% 85.3%
- foreign-born men: 82.1% 85.3%
- foreign-born women: 82.7% 85.7%

Employment rates 16-64 year olds (2011)
- men: 82.0% 75.6%
- women: 79.0% 72.1%

Unemployment (16-64 years), Q3 2012
- men: 3.7% 8.3%
- women: 4.9% 7.5%

Retirements 2011-25
- men: 40% 46%
- women: 40% 46%

Note: 1 Total number registered with Arbetsförmedlingen. 2. Share of employed, November 2007.


Employment rates in Kiruna close to the highest in the country

Employment rates in Kiruna are the second highest in the country. Over 80% of people aged 16-64 were in employment in 2011, which is high compared with other municipalities. In Pajala, the employment rate was 74.0%. Compared to the national average, the employment rate in both municipalities is high among all age groups, especially among the youth (19-34 years of age). It is also high among women, not least in Kiruna.

In both Kiruna and Pajala, employment rates have been rising over the past few years (Figure 8.21), largely due to the expansion of mining throughout the region. This has also had a positive impact on other sectors. Since 2004, the employment rate in Pajala has increased by 11 percentage points and in Kiruna, by close to 9 percentage points. The rise is more or less equal for both men and women. The higher employment rate is due to an increase in the number of people in employment over the past few years. However, there is also a demographic effect where a decline in the number of persons of working age has pushed the employment rate upwards.

Figure 8.21. Employment rates in Kiruna and Pajala

Municipal sector and mining

In Kiruna, almost 20% of all employees work in the municipality. The second largest employer is mining, which has an employment share of 25%. In addition, there are a significant number of persons who, directly or indirectly, are dependent on the mining industry. Just over 10% work in health and social care.

As in Kiruna, the largest employer in Pajala is the municipality, with an employment share of 40%. A large proportion of municipal employees work in health and social care and education (Figure 8.22). Over the next few years, the industrial structure of Pajala will undergo significant changes as a consequence of the new mine that will employ a growing number of people.

Representatives from both municipalities estimate that the tourist industry will continue to expand in the region. Both Pajala and Kiruna forecast that the construction industry will employ more people in the future as the need for new housing will continue to rise. The housing shortage is currently a significant problem. Pajala, for example, has a queue for housing that corresponds to half the town’s current population. Tourism linked to the Sami culture, innovative buildings and adventure tourism in the mountain region is significant, above all in Kiruna. This sector is expected to grow in the future. The region also has extensive plans for space tourism linked to the space research centre in the area.

Figure 8.22. Employment by industry sector in Kiruna and Pajala compared to Sweden


Continued unfavourable population composition

In both Kiruna and Pajala, the number of people of working age has fallen sharply over the past few years. From 1995-2011, the working-age population declined by 27% in Pajala and by 14% in Kiruna. In the same period, the 0-15 year-old age group fell by close to 40% in Pajala and by almost 30% in Kiruna.

While the number of people in the working-age population has fallen dramatically in both municipalities, the population aged 65 or above remained stable in Pajala but increased by more than 30%
in Kiruna. This means that the share of this age group has grown steadily over the past few years and currently constitutes 30% in Pajala and close to 20% in Kiruna. The number of persons above 80 years of age is expected to rise by about 50% up to 2025 in the two municipalities, 14 percentages points higher than Sweden as a whole.

The municipality of Pajala has set a goal of increasing its population to 10 000 people by the year 2020 – from 6 270 in 2011. In order to achieve this target, it will be necessary for the mining industry to attract labour that chooses to take up residence in the municipality and for many of the young people to opt to remain there rather than move to metropolitan areas. Representatives from Kiruna municipality also believe that population will grow over the coming years, although the housing shortage represents a substantial obstacle to a satisfactory population growth rate in both municipalities.

Statistics Sweden estimates that the populations of both Pajala and Kiruna will continue to decline up until 2025. This is based on the outcome of a number of parameters and is considered to be unduly pessimistic since the forecast is based on previously observed population changes in the municipalities. The reversed population trend is mainly attributable to the rapidly growing demand for labour in the expanding mining industry.

It is too early to predict the final outcome. Whatever the case, the population composition will continue to be severely imbalanced (Figure 8.23). As regards the population trend for the different age groups, it is anticipated that the 0-15 year-old age group will increase slightly in Kiruna, whereas it is forecast to continue to decline in Pajala. At the same time, the number of people over 65 years of age will continue to increase considerably, particularly in the Kiruna municipality. Thus, an unfavourable population composition is forecast for both municipalities over the coming years. The working-age population trend may be reversed, or at least become less adverse than is indicated by the population forecast, which is based on population patterns over the past few years.

Figure 8.23. Population projection per age group for Kiruna and Pajala

Large numbers of elderly retirees will leave the labour market

From 2011-25, the ratio between the inflow and outflow to and from the labour market will be significantly less than one, i.e. the number of people retiring on grounds of age will be higher than the number of young people entering the labour market. Close to 2,500 young people will enter the labour market in both municipalities between 2011 and 2025, while close to 5,300 will leave it. The ratio of 0.47 is low by comparison with other regions in the country. The shortfall of about 3,000 persons is more than twice the current inflow of labour.

If this imbalance remains over a longer period, there will be an adverse effect on both the growth of the labour force and the level of employment. The region will see a decline in these variables over the long term. This trend will have to be broken in the coming years. The inflow of labour will have to be at least at the same level as the outflow to maintain current levels of employment. The net flow is particularly imbalanced in the municipality of Pajala since in the public sector alone, the number of retirements far exceeds the number of young entrants into the labour market. There will also be a large number of elderly retirees in other sectors. The municipality is obviously facing considerable difficulties.

Figure 8.24. Inflow of young persons and outflow of retirements in Kiruna and Pajala

![Figure 8.24](source: Statistics Sweden, Available at: www.scb.se/en_ / Public Employment Service. Accessed June 2012.)

The share of elderly retirees is higher in Pajala than in Kiruna, 46% and 40% of employees respectively are expected to retire between 2011 and 2025. Figure 8.25 illustrates the retirement figures across several sectors in both municipalities. The share of elderly retirees in Pajala and Kiruna is higher for all sectors than in the country as a whole and is accordingly significantly higher than the historical average. In both Kiruna and Pajala, the number of retirees will be particularly large in the public sector. Representatives from the municipalities are especially concerned about how to solve the problem of covering future labour demands in the health and social care sector. Health and social care has limited opportunities to compete salary-wise with the mining industry, making recruitment difficult. The municipalities are actively working on making both professions and workplaces in the health and social care sector more attractive. One such example is a project in Pajala that aims to turn part-time employment within the health and social care sector into full-time employment. Both municipalities also recognise that there is a risk of future problems in recruiting engineers and other highly skilled specialists such as physicians.
The municipalities fear labour shortages in the following sectors, both in the short and in the long term:

- health and social care
- care for the elderly and disabled
- technological consultancy/engineering
- construction.

**Figure 8.25. Retirements by industry sector in Kiruna and Pajala**

![Retirements by industry sector in Kiruna and Pajala](image)


**Municipal strategies for increasing labour supply**

Collaboration between stakeholders is an important part of development for all industries in the region. Pajala has a Labour Market Council on which several stakeholders are represented. It manages important issues related to business development in the municipality. As mentioned, Pajala has a vision to increase the population to 10,000 by 2020. Linked to that vision, strategies for various municipal policy areas are essential, such as culture, sports and leisure, housing, etc. Kiruna is in the process of establishing a similar labour market council.

The municipalities collaborate on planning education, which is strategically important for business development and for the primary undertakings of the municipality. They operate educational programmes in collaboration with other municipalities in the north of Sweden, primarily programmes at post-secondary level. Collaboration between the municipalities makes it easier to achieve the requisite education volumes and facilitates the recruitment of suitable education providers in the education system.
Underutilised labour resources can be found among recently arrived immigrants. According to representatives from the municipalities, integration has worked very well, and one important part of that integration link is to reach a high quality of courses in the Swedish language. Currently, there is a low level of labour immigration, although it is estimated to rise in the future. The labour that is being recruited from other countries mainly consists of healthcare specialists. One issue that inhibits recruitment from other countries is the housing shortage in the municipalities.

In order to meet the future labour demands and increase employment in the long term, it is important to have adequate vocational training programmes. Another measure is to help family members of new employees to find suitable employment in the local labour market. One problem in this area, as mentioned above, is that the demand for housing far outstrips the supply. Housing queues are consequently very long. The municipalities are conducting an ongoing programme in housing investment. However, the expansion of this programme is limited by the lack of resources in the municipal budgets.

The municipalities strive to maintain a high level of quality in their core areas of expenditure, particularly health and social care and education. It is considered essential to offer inhabitants high quality in those areas in order to make the area attractive for people to stay in the region. In addition, it acts as an incentive for people to move to the region. Culture and leisure are also important factors that attract people to the region. The municipalities are investing in theatre, music, literature, the natural environment and a range of sporting facilities.

**Actions to alleviate the consequences of the generational shift**

**Policies to stimulate labour supply**

All in all, over 1,600,000 people are expected to leave the labour market on grounds of age from 2011-25, compared to approximately 1,300,000 retirements from 1996-2010. However, there are measures available to try to alleviate the effects of this generation shift. There is no single solution, but rather a series of different steps that may help produce a positive outcome. In the following, we will consider a number of policy measures that could lead to a more efficient utilisation of existing labour resources, national and local. Measures to increase population and labour supply in the long term will also be examined, with most of these measures linked to active policies on regional and local levels.

**More efficient utilisation of existing labour resources**

Since 2006, economic policy in Sweden has focused on increasing labour supply. New reforms have been introduced, such as changes to the unemployment insurance system, the health insurance system and a new labour market policy. An Earned Income Tax Credit has also been introduced. The emphasis throughout has been on the need to improve incentives for jobseeking and participation in the labour market.

An increased supply of labour is also expected to contribute to an improvement in matching in the labour market. In addition to structural reforms, a number of temporary measures were introduced in connection with the financial crisis of 2008 and 2009, in order to alleviate the negative effects of the recession. The focus of these emergency measures was to reduce the impact of the fall in the employment rate, avoid long-term, high-level unemployment and maintain participation in the labour force. Labour policy since 2006 has included a significantly larger element of incentives to support active jobseeking, primarily through changes in the unemployment insurance system. One of the effects of these changes has been to improve the matching process in the labour market.

The policy’s main focus on stimulating labour supply has also had a substantial impact. The labour force has grown steadily since 2006 and significantly much more than during previous comparable
economic periods. The number of persons in the labour force has risen in many different groups over the past few years, for example among citizens born abroad. In international terms, Sweden has a high rate of labour market participation, among the highest in Europe. In spite of this, there is further potential for raising the labour supply to even higher levels among various parts of the population. In order to facilitate a continued supply of labour in the future, it is essential to harness the available labour resources among people of working age throughout the entire country. This can be done through effective labour market policy and by taking other types of initiatives in other policy areas, such as economic policy, industry policy, education policy and social policy, in line with what has been mentioned above (Public Employment Service, 2009).

Irrespective of the economic situation, it is essential to harness the resources of the unemployed. Efficient matching is essential, although many unemployed also need skill training. As well as education, on-the-job training may also be required in many instances, in order to provide the essential work-life experience.

Close to 400 000 people are registered as unemployed at the Swedish Public Employment Service, (including persons in programmes with activity support). Of those 400 000 unemployed, more than 100 000 have been unemployed for more than three out of the past ten years. This group of long-term unemployed comprises persons who have recurring periods of unemployment and who have difficulties finding a stable foothold in the labour market. This is one of several ways to measure the size of the groups that have difficulties establishing themselves in the labour market, irrespective of the economic situation. The methods used to measure this form of harmful unemployment vary as, consequently, do the results.

The group of unemployed with the greatest difficulties in entering the labour market, irrespective of the economic situation, is often referred to as the structurally unemployed. In an international comparison, Sweden had the lowest share of structurally unemployed in Europe. Minimising structural unemployment remains the single most important task for labour market policy. One way of reducing this type of unemployment is to increase the employability of the unemployed by means of training and/or work experience.

It is also possible to limit structural unemployment by stimulating job creation in sectors that have lower skill requirements. However, this will not counteract the effects of the generational shift. But it will affect the number of hours worked and will therefore provide a positive contribution to GDP growth. Over the coming years, there is a need to focus on a selective labour market policy that concentrates resources on the unemployed who have the greatest need for different measures. This would help to constrain the growth of structural unemployment and thereby alleviate the negative impact of the generation shift.

The focus of labour market policy is on the avoidance of long-term unemployment. Among other things, this work involves a search for new and more sustainable solutions to harness the labour resources that can be found among groups that have the greatest difficulties in finding employment. Many of them have limited education, elementary school at best. Over a quarter of the unemployed (including jobseekers in programmes with activity support) registered at the Swedish Public Employment Service have not completed upper secondary school.

Certain groups are over-represented among those who have particular difficulties in finding employment: unemployed people from 55-64 years of age, foreign born, individuals with occupational disabilities and young adults who left school without a leaving certificate. Labour market policy has always lacked instruments to provide a more adequate education programme, such as an upgrade to upper secondary school level for those unemployed who lack a proper upper secondary school education. Those groups of unemployed that are far from reaching that level need long-term training commitments; to start with, basic adult education, followed by vocational training. Municipalities have the primary responsibility
for the provision of longer basic education programmes for their citizens. However, this issue requires more collaboration between the municipalities and the Swedish Public Employment Service in order to improve the employability of the unemployed, who lack the necessary basic education.

One trend that will affect the labour supply, both in the short term and in the long term, is the fact that young adults in each age group leave elementary school and upper secondary school without a certificate. This is also a dilemma shared by other countries. This share has remained unchanged in Sweden in recent years at around 20% for each age group. About half of this group finish their education at a later date. However, the other half is faced with difficulties entering the labour market, even during periods of high labour demand. That is why it is essential to minimise the size of this group as early and as much as possible, naturally facilitating the generational shift.

Another way of increasing the labour supply is to improve mobility in the labour market, i.e. encouraging the unemployed to switch professions (from declining to expanding professions) or to move to a new location. Such measures are exceedingly important in order to resolve recruitment problems. The Swedish Public Employment Service is actively working to enable jobseekers to accept jobs in places outside their home region. Commuting is an alternative solution that offers substantial potential for further development in the future. Commuting to work often brings benefits to the home municipality as well as the municipality in which the workplace is located. Infrastructure investments are important to facilitate commuting, in both roads and railroads.

**Foreign-born residents constitute an important labour potential**

The greatest potential for an increase in labour supply and employment in the future rests with foreign-born residents, particularly with non-European women. The entire chain of integration, from the point of arrival in Sweden to the final objective of gaining employment, must be improved. For that reason, the Swedish Public Employment Service has been given responsibility for the entire integration process concerning newly arrived refugees.

Skills in Swedish language are important and essential for immigrants seeking to establish themselves in the labour market. Swedish teaching for new immigrants plays an important role. However, the quality of these teaching programmes has been criticised in a number of municipalities for failing to provide adequate skills. Validation schemes that would better assess the skills of foreign-born residents are also important. This applies to both education and work experience. Nearly 50% of new immigrants (refugees) who register at the Swedish Public Employment Service lack a leaving certificate at the upper secondary level. In order to provide an upper secondary level education to as many of this group as possible, vocational study programmes will have to be expanded in many municipalities. It is also important to change attitudes and to increase the understanding of foreign school leaving certificates among employers and fellow workers. In this context, the everyday business-focused approach adopted at the local employment offices is invaluable. It also establishes networks that enable unemployed immigrants to obtain employment and work experience.

**Women: An underutilised labour potential**

Labour market participation still differs between men and women. According to the 2012 Swedish Labour Force Survey, the relative participation rate among men 16-64 years of age was 84.2%, compared to 79.2% among women. There is accordingly a labour potential to be found among women, primarily among foreign-born women. This varies between different parts of the country. Participation rates are higher in the urban centres and lower in rural areas.
However, it is difficult to establish to what extent it is possible to even out participation rates between men and women as well as between regions. The fact remains that there is still work to be done even though female labour market participation rates in Sweden are much higher than in most other countries. Further efforts to raise the female participation rate can be undertaken across a wide spectrum, covering several policy areas. It involves issues of geographic mobility, distribution of job opportunities, education, breaking with cultural traditions, infrastructure, parental leave, childcare, etc.

The elderly: An important resource

The elderly are also an important labour resource even though by European standards, Sweden has high participation rates among the elderly. The primary issue is how to get as many as possible to work until retirement age, which is currently 65 in Sweden. However, it is also a question of how to incentivise a greater number of people to continue working after 65. Increasingly, people continue to work after the age of 65, usually to 67.\textsuperscript{xiii} There is an ongoing political discussion about raising the right to remain in work until the age of 69.

A significant characteristic of those who work between 65 and 69 years of age is that many work part-time. One way of encouraging people to work until 65 years of age or beyond can be to improve the conditions for part-time work for elderly labour. It would also improve the opportunities for transferring knowledge from senior members of the labour force to new employees. The new pension system has established clear incentives for elderly workers to remain in the labour market for longer.

Potential labour resources are as follows (Public Employment Service, 2010):

• Intensive work programmes to provide the structurally unemployed in declining sectors and occupations with viable skills that will help them find a new job.

• Young people with inadequate education. These groups are greatly affected by high unemployment and many remain outside the labour market.

• Young people who are entering the labour market and whose education does not correspond to labour demands.

• Foreign-born residents who have an inadequate education, particularly women.

• Unemployed persons who have occupational disabilities. This group is often extremely vulnerable to high unemployment. Many remain outside the labour market.

• Elderly workers, including the unemployed.

• Unemployed persons who lack geographical mobility.

• Regional differences in terms of labour force participation.

Population, employment and economic growth

Population growth is considered a key factor in generating local economic growth (Klepke, 2001). Together with employment growth, population growth is often used as an indicator of local growth (Bartik, 2005; Wolman and Spitzely, 1996; Heldt Cassel, 2008). An increase in residents’ income is also a common indicator of local growth.
The factors underlying local economic growth may be viewed from a number of different perspectives. Public investment in infrastructure is said to be an important factor in generating local economic growth. More recently, the emerging concept of regional growth has come to include dimensions other than population, employment and income (Swedish Institute for Growth Policy Studies, 2008a). In addition to the economic perspective, ecological and social dimensions have been given greater emphasis in different analyses.

A broader definition of local growth may be formulated in terms of sustainable economic growth, measured as some form of regional GDP value that encompasses the opportunity to develop in such a way that welfare in a broad societal perspective increases (Arena for Growth, 2006). Growth and development thus go hand in hand. Municipalities around Sweden are different; conditions differ, which means that every municipality must find its own way to define measures and its own policies regarding local economic development. Work on growth issues must take into account each individual municipality’s specific context. In general, it is not possible to say that a specific growth strategy would be better than others. It is important to observe those differences in population development and other key conditions in the process of planning appropriate activities which are relevant for the choice of growth strategy for municipalities, and the municipality’s ability to develop welfare (Hautbois and Durand, 2004).

As mentioned above, there is no one solution or measure for local growth that fits all municipalities. Emerging policy must be adapted to the particular circumstances and the particular context prevailing in a municipality. Municipalities can initiate their own activities that contribute to the development of the municipality towards a specific growth perspective (Bartik, 2005; Robichau, 2010). However, the intensity and pace of development depends in many cases on how the municipality co-operates with its local and regional partners. A municipality’s main mission in the growth policy is to create good basic social institutions and to take on the leader’s jersey for local development.

**Private and public entrepreneurship**

Increasing entrepreneurship provides a more robust foundation for local employment which is less sensitive to cyclical fluctuations and makes opportunities for increasing employment in the long term. A local labour market with a strong culture of entrepreneurship and innovation is better able to meet rapid market adjustments. Municipal organisations also need to have an increased capacity for adaptation that helps them to cope with the competitive situation for inhabitants, businesses and visitors. An important part of a local growth strategy will be measures to promote private and public entrepreneurship.

Entrepreneurship for economic growth has been studied by several researchers. At a national level, the relationship between economic growth and entrepreneurship has been studied by country data for a number of OECD countries in 1990. In that study, where the amounts of physical and human capital were held constant, countries with a higher level of entrepreneurship also turned out to have higher growth. A positive relationship was also identified between entrepreneurship and economic growth at the regional level in several countries, as well as in a panel of OECD countries. The empirical results are consistent with the assumption that entrepreneurship, by facilitating the dissemination of knowledge, strengthens economic growth.

There is a clear correlation between economic expansion and a region/municipality’s ability to attract the skills that are required for good economic development. Some of the factors that create attractiveness may be influenced by individual municipalities, while others require action at the regional or national level. Creating a good business environment is something that all municipalities are working towards today. However, there are major differences in the degree of activism pursued by individual municipalities in Sweden.
A variety of factors are important for each company which chooses to set up a new business. Moreover, these factors are linked in a complex fashion. Terms and conditions, such as wage rates, laws and regulations, fiscal and monetary policy and tax levels are some of the important factors that influence foreign companies locating in a particular country. However, these factors play a lesser role in relation to the choice of location within a country. The ability to keep companies within a region is at least as important as the ability to attract businesses, since it is usually much easier to meet the needs of established businesses than to attract new businesses.

The factors that are most critical to a company’s choice of location are of course dependent on the industry within which the company operates. A company that manufactures products in the form of goods is dependent on access to an efficient transport system while knowledge-intensive service companies are more reliant on proximity to other businesses that use these services.

Accessibility is a key word when it comes to creating attractiveness for business. In addition to the access provided by an efficient transport system to customers and/or to other businesses in the vicinity, companies also require access to a range of services and a workforce that has the right skills. In this context, a well-functioning public transport infrastructure is crucial. The service that companies demand from authorities and municipalities must also be accessible and function in a smooth manner. These factors provide a fundamental base for what companies expect.

Companies and industries that are innovative and knowledge-intensive derive particularly great advantages from a central location that offers good access to both customers and suppliers. Research shows that there are three contributory mechanisms. These are sharing, matching and learning. In short, this means that geographic concentration facilitates and stimulates processes that enhance specialisation.

Companies, especially knowledge-intensive ones, are entirely dependent on the availability of skilled labour. Human capital is the most important resource and will be even more valuable in the future. Questions about skills and recruiting appropriate labour are therefore important factors for business start-ups. The ability to recruit people with a high education and special skills will be an important part of attracting more companies and also allowing existing firms to grow. This can either be done by attracting expertise relevant to a particular region/municipality or by creating favourable conditions for commuting from other regions/municipalities.

It is of great importance to encourage and facilitate a good business climate for economic development, nationally, regionally and locally. One important characteristic that emerges from the two case studies is that the tourist industry plays an important role in relation to growth potential. The sector is multi-faceted and it is therefore essential to have a clear strategy on how it can best be developed in each region.

The potential for long-term development is also evident in several other industries in the studied regions, for example in historically traditional industries such as mining, manufacturing, construction and forestry. Labour supply represents a central long-term issue in all those industries as a result of the increasing number of retiring people in these local labour markets. Can the regions attract persons with suitable skills, well-qualified specialists that all employers need to recruit?

Immigration of labour

A central approach to increasing labour supply in local labour markets is to raise net migration in the long term. One possibility is to increase labour immigration. This possibility has been expanded since employers have been given extended opportunities to recruit labour abroad. On the one hand, the European Union constitutes a common market; on the other, the employers themselves determine whether
there is a shortage within a profession. Thus, they are able to look for labour outside the European Union. Although this is not a universal cure that will solve all of the labour needs that will occur in the coming decade, it will provide assistance to sectors suffering from a domestic shortage of skilled professionals. There will also be increased labour competition within the European Union since many other countries are struggling with demographic problems brought on by an ageing population.

The results of our analysis show that net migration needs to be at least maintained at current levels at a national level in order to ensure continued growth of labour and employment in Sweden as a nation. However, it is clearly evident from our case studies that a lot more can be done at regional and local levels. The two case studies show that the inflow of foreign labour is weak and the local labour market needs at least to double the inflow of new labour to maintain current levels of employment. The analysis also shows that the inflow of youth into the labour market is just sufficient enough to fill retirements in the public sector. It is obvious from our study that all of the studied regions need to increase the amount of foreign labour on quite a large scale and at the same time work even harder to raise the activity rate among groups that have low labour force participation.

The two case studies very clearly show that the regions need to focus a lot more on measures that will attract labour from other countries. The inflow of foreign labour is limited in these two case study regions, particularly in Kiruna and Pajala. Given the large number of elderly workers leaving the labour force, labour resources will be very limited in the long term. It will be a hard challenge to increase employment and economic growth, which is a main goal in all regions. First, it will be a very difficult challenge to find enough labour in each region to fill all the vacancies that arise when people retire, particularly in certain sectors. Second, it will be an even harder challenge to increase employment and economic growth.

There is an ongoing debate about the level of immigration, especially in certain regions, where some argue that immigration has become too extensive. The inevitable conclusion from our analysis is that net immigration and foreign-born participation rates will play a significant role in changes to the Swedish labour market over the coming decades. The question therefore, is not whether regions in Sweden should have immigration, but how extensive it should be and how Swedish regions can harness the important labour resource that immigrants represent.

**Increasing labour supply with higher education: Certain professions**

An important factor affecting regional growth is the availability of labour and in particular the availability of high-skilled workers (Swedish Institute for Growth Policy Studies, 2008b; Lidström, 1998). In Sweden, access to higher education has increased in recent decades and there is good access to higher education in all 21 counties. The planning of education mainly takes place at the regional level and in this context it is important that regional and local actors are working together to achieve good solutions to meet an upcoming demand for labour. The municipalities in the case studies mentioned the long-term importance of reaching a sufficient inflow of graduates into the local labour markets.

In order to counteract the looming shortages in different professions, more people had to choose educational programmes – in both upper secondary school and adult education – that focus on health and social care, construction as well as manufacturing and high technology. Social and elderly care is one example where it is unreasonable to expect that upper secondary schools can provide the whole labour market with labour. There is, however, an insufficient interest in these programmes among young people. In the long term, the need for labour in these fields is considerable. To meet this demand, municipalities must provide a higher level of adult education but also consider other forms of actions for increasing labour supply, not only in this sector.
In order to make it possible to implement the changes that are essential for upper secondary school programmes, stakeholders need to provide more information about professions and labour market needs to both parents and students as well as to people in adult education. This information is necessary to influence people’s attitudes and to provide students with an opportunity to gain a better idea of the content and prospects for various professions. As early as elementary/upper secondary school, municipalities need to provide pupils with knowledge about professional and labour market prospects. All involved parties must take their share of responsibility, not only the municipality but also labour unions and employers’ organisations. Surveys show that, to a great extent, pupils choose their education based on media information concerning the prospects for different fields and professions.

**Collaboration between stakeholders**

It is essential that municipalities take a broad approach to issues surrounding future labour supply. Contacts and collaboration between regional/local actors are at the heart of this effort. This involves extended collaboration between education co-ordinators, private industries, labour unions, the Swedish Public Employment Service and municipalities. The Swedish Public Employment Service’s industry forums comprising different actors concerning labour market issues play an important part in the efforts to develop strategies for tackling labour needs in a future labour market.

It is important that different stakeholders collaborate and participate in the process during the planning of (new) educational programmes so that a growing number of individuals will find educational opportunities in areas where labour needs are the greatest, shifting the emphasis away from educational programmes where there is a more or less steady surplus of jobseekers. The shortage of graduates will gradually increase in certain professional fields due to the retirement of a growing number of elderly skilled professionals as well as to meet the need to increase the overall number of employees in particular sectors. More extensive efforts are necessary to strengthen the supply of skilled labour within professions that have high retirement rates. If nothing is done to change the trend, there will be a shortage of skilled labour within certain professions, something that will inevitably impact on recruitment and the work environment as well as production and services in both private industries and the public service sectors, especially in certain regions.

**Future inflow of labour: Attracting labour to the regions**

There are many factors which affect the attractiveness of a region in relation to recruiting labour. Some classic factors include high wages and good employment conditions. More recently, attention has increasingly begun to be paid to other, softer values such as access to housing, good recreational and cultural activities, good access to childcare and schools. At the same time, the conclusion is that people are relatively reluctant to move, at least after they have finished studying or started a family.

Attracting labour is a long-term and multi-faceted task and consists of efforts on many levels. These include strategies to attract and retain graduates and skilled labour in the region. It also involves strategies to reach foreign labour in other countries that are willing to move to Sweden and to a specific region, increasing labour market immigration into a local labour market. Regions and municipalities have had to have long-term strategies for increasing the supply of skilled labour, including measures to influence future labour potential, as well as the educational system (Trendle, 2009).

One advantage that has been highlighted in order to attract foreign labour is the argument that Swedish business culture is generally characterised by a non-hierarchical approach. This is of great importance for employees of a company who will, in many respects, be given the opportunity to develop their own ideas and thereby contribute to the company’s success. In many other countries, the business environment is far more hierarchical and does not allow the same scope for employees to contribute to
innovation and renewal. To attract foreign expertise, the opportunity for both persons in a relationship to find a job that matches all their requirements in a new location may well be of crucial importance. It is also important to create social spaces for people who may not already have a network of friends and family.

The provision of good vocational guidance and counselling to schoolchildren and other potential future labour is a vitally important measure. The inflow of new labour to the local labour markets will not be sufficient to make up for all the elderly retirements in our case studies. Hence it is important that people entering the labour market have an education that makes them employable. All of the municipalities foresee difficulties in recruiting labour within certain sectors that require university degrees.

The municipalities in the case studies are actively working with the university in the region in order to influence both the content and the direction of its programmes in order to provide the local labour markets with suitable labour for future needs. In order to attract people to the region, the municipalities are marketing themselves and the future needs of labour, for example at trade fairs and conventions. All these activities need further attention.

Attractiveness, services and infrastructure

Recent attention has been focused on the need to provide access to good municipal environments and service. It is considered to be an important factor in attracting population and labour resources. This is partly borne out by the case studies as well as by other studies. The municipalities strive to maintain high levels of quality in their core areas of health, social care and education. It is considered essential to offer inhabitants high standards in those areas in order to make it attractive stay in the region. In addition, it is an appealing factor when they are trying to attract people to move there. Culture and leisure are also important factors for attracting people to the regions. The municipalities are investing in areas such as theatre, music, literature, nature and a series of sporting facilities (Rönnblom and Hudson, 2007).

One problem that small municipalities are facing, especially in relation to rapid economic development, is that the demand for housing far outstrips the supply. As a result, housing queues become very long. Municipalities make investments in new housing and plan to continue investments in housing. These plans, however, may often be limited by a lack of resources in municipal budgets. This may in turn raise obstacles in the path of increasing employment and improving economic welfare in the region.

8.6 Summary of measures for population, labour supply and employment

The following comprises a list of some important examples regarding how municipalities can facilitate the generation shift in different regions. In all probability, there is more that can be done to counteract the negative impact of the generation shift. However, the examples below are the most important:

- Higher level of immigration in order to increase the working-age population, particularly in professions that have a deficit of skilled labour.
- Effective integration of foreign-born citizens. This may differ between regions.
- Measures to facilitate future industrial and business development.
- Attracting young people to programmes aimed at professions where there is a labour shortage, and particularly in professions subject to skill shortages that attract little interest among young people.
• Shortening the periods of study in the educational system and increasing the share of young people who have upper secondary leaving certificates.

• Extensive efforts by stakeholders, authorities, industries, labour unions and employer’s organisations, etc., to disseminate information about professions. The target audience comprises both adolescents and adults, i.e. pupils, students, parents, teachers, guidance counsellors, etc.

• Adult vocational education for foreign-born, new immigrants as well as other foreign-born residents who have a weak educational background (manufacturing, construction, health and social care).

• Developing the attractiveness, infrastructure and services of regions.

• Increasing the opportunities to raise the supply of housing in areas of high housing shortages.

• Collaborating between municipalities concerning municipal services – IT, salaries, water, waste, skill supply.

• Improving collaboration between different stakeholders to find strategies for attracting new labour, both in Sweden and abroad.

NOTES

i. Share of active population in both cases.

ii. Labour market participation in 2011, retrieved from the labour survey conducted by Statistics Sweden.

iii. The ratio was 1.17 from 1995-2000 and 1.10 from 2000-05, followed by 1.06 from 2005-10.

iv. The dependency ratio is calculated by dividing the total population by the number of people in work, i.e. the employed minus absent from work.

v. With the assumption that the share of absenteeism from work remains unchanged.

vi. For example, education planned by the Swedish National Agency for Higher Vocational Education.

vii. Sweden has a national labour market policy.

viii. The National Social Health Insurance Agency introduced new rules in 2010, to test people able to work after a period of three months in the insurance system. The responsibility for this assessment lays with the Public Employment Service. In order to accommodate the needs of people whose entitlement to sickness benefits had expired, the Employment Policy Programme for Working Life Introduction was introduced on 1 January 2010. Its aim was to offer participants individualised labour market measures that determined the need for support during a transition to work. The Working Life Introduction programme lasted for a maximum of three months.
ix. A person who hires to do ROT (Repairs, Conversion, Extension) or RUT (Cleaning, Maintenance and Laundry) work may receive a tax reduction – a ROT or RUT deduction for cost. Material costs and travel expenses arising in connection with the work do not confer entitlement to ROT and RUT tax deductions.

x. Approximately 5% of each age group.


xii. The Introduction Activity Act targets newly arrived immigrants of working age (20-64) who have been given residence permits as refugees, or quota refugees. Newly arrived immigrants 18-19 years of age, with no parents in Sweden, are also covered by this law, as are relatives of new arrivals. The new law came into effect on 1 December 2010.

xiii. Currently a person has the right to work until the age of 67. After 67 a person has to have an agreement with the employer to continue to work.

References


Brorström, B. and S. Siverbo (2008), “Perspectives on successful local policies”.


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Annex A: Study methodology

1. Extensive statistical/data analysis and building of a demographic change dataset for Poland and the Netherlands and the three study regions from approximately 1990 to 2010. Table A.1 presents the topic grouping. There were some difficulties experienced in finding all the data at the local level; however, a comprehensive dataset was accomplished in the following indicators groups.

Table A.1. Indicators topic groupings

<table>
<thead>
<tr>
<th>Groups</th>
<th>Indicators</th>
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<tbody>
<tr>
<td>1: Demographic change</td>
<td>Total population, population growth rates; population density; median age; birth and death rates; and life expectancy</td>
</tr>
<tr>
<td>2: Declining fertility</td>
<td>Fertility rates; infant mortality rates; household income (measures the level of affluence); female employment rate; and female education</td>
</tr>
<tr>
<td>3: Labour markets</td>
<td>Economic active population; employment rate; employment by highest level of education; number of employees by industry; employment and commuting; weekly hours worked; number of establishments by industry; migration; and unemployment</td>
</tr>
<tr>
<td>4: Older workers and the silver economy</td>
<td>Population aged over 55 and over 65; employment rate by age cohort and gender; retention rates for older workers; hiring of older workers; unemployed rate of older workers; incidence of long-term unemployment for older workers; full-time earning for older workers; education attainment (50-64); participation in training for older workers; older self-employed workers; exit age from labour force; average pension age; disability benefits; and pension rates</td>
</tr>
<tr>
<td>5: Infrastructure and social service adaption</td>
<td>Land use; inland passenger transport; good transport; transport to work; households with access to broadband; households with Internet connection; number of hospitals; number of general practitioners; employment in the health sector; infrastructure expenditure; real-estate investment; social expenditure; number of associations; number of NGOs; number of persons receiving benefits; dependency ratio; economic dependency ratio; and lifestyle and mental health (suicide, depression, number of mental health consultants)</td>
</tr>
<tr>
<td>6: Education development trends</td>
<td>Students enrolled in education; participation of adults in education and training (by gender and labour status); and educational expenditure by government</td>
</tr>
<tr>
<td>7: Environmental factors</td>
<td>Regional green attractiveness (green amenities, access to clean water, human exposure to air pollutants); industry green attractiveness; regulatory framework; resource efficiency (energy, waste and recycling, water usage); green planning (brownfield sites, contaminated land, land-use changes, environmental protection expenditure)</td>
</tr>
</tbody>
</table>
2. *Analysis of policy indexes* – the Elderly Friendly Places to Live (ELFRI) questionnaire and the Older Workers Friendly Places to Work (OLWOF) questionnaire (see Table A.2 for themes) were distributed at workshops held for each region as part of the project and completed by participants in order to provide qualitative data for the regions under analysis, in Italy, Japan, the Netherlands and Poland.

<table>
<thead>
<tr>
<th>Index</th>
<th>Themes</th>
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<tbody>
<tr>
<td><strong>Elderly Friendly Places to Live (ELFRI Index)</strong></td>
<td>1. Outdoor spaces and buildings (public areas and buildings)</td>
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<tr>
<td></td>
<td>2. Transport</td>
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<td></td>
<td>3. Housing (public and private)</td>
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<td></td>
<td>4. Social participation</td>
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<td>5. Respect and social inclusion</td>
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<td></td>
<td>6. Civic participation and employment</td>
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<td></td>
<td>7. Communication and information</td>
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<tr>
<td></td>
<td>8. Community support and health services</td>
</tr>
<tr>
<td><strong>Older Workers Friendly Places to Work (OLWOF index)</strong></td>
<td>1. Recruitment</td>
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<tr>
<td></td>
<td>2. Work culture and opportunities</td>
</tr>
<tr>
<td></td>
<td>3. Training and skills development and opportunities</td>
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<td></td>
<td>4. Firm health and benefits (private and public organisations)</td>
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</tbody>
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3. *Regional field mission and workshops* in which a film crew captured the event and an OECD expert panel provided comments and had deep discussions:

- Field missions of selected cases where demographic change is prominent and/or where innovative strategies addressing demographic change have been put in place.

- Experts’ consultations and meetings (academics, policy/institutional experts, practitioners, trade unions, business organisations). Workshops in each of the regions analysed cases within the domains of the project, and drafted policy and strategic recommendations. The OECD expert panel provided comments and feedback at the workshops. Four focus group topics were selected and analysed:

  - labour markets and older workers: organisational approaches by businesses and trade unions

  - new business developments and entrepreneurship: the silver economy, white economy and green economy

  - sustainable local development models: the urban form and social and financial implications of an elderly society

  - social transformations: dynamics of social inclusion, family development and inter-generational solutions.
Annex B: Demographic Change Dashboard

The Dashboard tool was developed by the Consultative Group of Sustainable Development Indices (CGSDI) in an attempt to help and launch the process of putting indicators at the service of democracy. The website was a free, non-commercial software, providing the opportunity to download the “Dashboard Development Kit” which has an Excel template allowing personal dashboards to be set up.

The Dashboard presents sets of indicators in a simple pie chart based on three principles:

1. the size of a segment reflects the relative importance of the issue described by the indicator
2. colour codes signal relative performance, with green meaning “good” and red meaning “poor”
3. a central circle, the Policy Performance Index (PPI), summarises the information of the component indicators.

The Demographic Change Dashboard is an evolving tool to assess the performance levels of demographic transition at a regional scale. The Netherlands’ dashboard provides a comparison “with and between” the Netherlands and the case study regions – Groningen, Drenthe, Limburg and Zeeland (green indicates the region’s performance is better [good], red indicates that its performance is lagging or lower [poor] than the comparison regions).

### Theme: Demography

<table>
<thead>
<tr>
<th>Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PopGR</td>
<td>Population growth (%)</td>
</tr>
<tr>
<td>PopYR</td>
<td>Population 0-14 years old (%) of the total population</td>
</tr>
<tr>
<td>PopWYR</td>
<td>Population 15-64 years old (%) of the total population</td>
</tr>
<tr>
<td>PopOWR</td>
<td>Population 55-64 years old (%) of the total population</td>
</tr>
<tr>
<td>PopER</td>
<td>Population 65+ years old (%) of the total population</td>
</tr>
<tr>
<td>LifeE</td>
<td>Life expectancy (years)</td>
</tr>
<tr>
<td>LifeEM</td>
<td>Life expectancy – Male (years)</td>
</tr>
<tr>
<td>LifeEF</td>
<td>Life expectancy – Female (years)</td>
</tr>
<tr>
<td>Cbrate</td>
<td>Crude birth rates (number of births per 1 000 per year)</td>
</tr>
<tr>
<td>Cdrate</td>
<td>Crude death rate (number of deaths per 1 000 per year)</td>
</tr>
<tr>
<td>Fert</td>
<td>Fertility rate</td>
</tr>
<tr>
<td>InMort</td>
<td>Infant mortality rates (death per 1 000 births)</td>
</tr>
</tbody>
</table>

### Theme: Economy

<table>
<thead>
<tr>
<th>Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PrIn</td>
<td>Primary income (millions of national currency, current prices)</td>
</tr>
<tr>
<td>GDP</td>
<td>Regional GDP (USD current PPP, current prices)</td>
</tr>
<tr>
<td>GDPcap</td>
<td>Regional GDP per capita (current prices, millions of national currency)</td>
</tr>
<tr>
<td>YDR</td>
<td>Youth dependency</td>
</tr>
<tr>
<td>EDR</td>
<td>Elderly dependency</td>
</tr>
<tr>
<td>EcDR</td>
<td>Economic dependency</td>
</tr>
</tbody>
</table>

### Theme: Labour

<table>
<thead>
<tr>
<th>Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EmpR</td>
<td>Employment rate (%) (15-64 years old)</td>
</tr>
<tr>
<td>EmpYR</td>
<td>Employment rate – Young adults (15-24 years old) (%)</td>
</tr>
<tr>
<td>EmpOR</td>
<td>Employment rate – Older workers (55-64 years old) (%)</td>
</tr>
<tr>
<td>UEmpR</td>
<td>Unemployment rate (%)</td>
</tr>
<tr>
<td>UEmpYR</td>
<td>Unemployment rate – Young adults (15-24 years old) (%)</td>
</tr>
<tr>
<td>UEmpOR</td>
<td>Unemployment rate – Older workers (55-64 years old) (%)</td>
</tr>
</tbody>
</table>

### Theme: Skills and Education

<table>
<thead>
<tr>
<th>Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>STenED</td>
<td>Students enrolled in education (% of total population)</td>
</tr>
<tr>
<td>STenTED</td>
<td>Students enrolled in tertiary education (% of total students enrolled)</td>
</tr>
<tr>
<td>TerEdAtEm</td>
<td>Tertiary education attainment (% total employment)</td>
</tr>
<tr>
<td>TerEdLF</td>
<td>Tertiary education attainment (% of labour force)</td>
</tr>
<tr>
<td>PaAdEd</td>
<td>Participation of adults in education (%)</td>
</tr>
<tr>
<td>PaAdEdM</td>
<td>Participation of adults in education – Males (%)</td>
</tr>
<tr>
<td>PaAdEdF</td>
<td>Participation of adults in education – Females (%)</td>
</tr>
</tbody>
</table>

### OECD total/average

<table>
<thead>
<tr>
<th>Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU27</td>
<td></td>
</tr>
<tr>
<td>OECD</td>
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</tr>
</tbody>
</table>
NOTE ON CONTRIBUTORS

Prof. Frank Cörvers (1966) is Leader of the Dynamics of the Labour Market research programme at the Research Centre for Education and the Labour Market (ROA), Maastricht University. He studied general economics at the Universities of Maastricht and Hanover, and in 1999 he obtained his doctorate at Maastricht University. Frank Cörvers has great experience in both national and international commissioned research, e.g. for the Dutch ministries (Education, Social Affairs, Economic Affairs, Public Health), the Dutch National Employment Office, various employers’ organisations, the European Commission, the European Centre for the Development of Vocational Training (Cedefop), among others. He has participated in many short-term missions internationally as an independent consultant and published numerous policy reports and various articles in academic journals. Professor Cörvers has been appointed part-time Professor in the Teacher Labour Market at the Reflect Institute of Tilburg University.

Dr. Jouke van Dijk (1956) is Professor of Regional Labour Market Analysis and Chair of the Department of Economic Geography at the Faculty of Spatial Sciences of the University of Groningen. He is also President of the Board and Scientific Director of the Board of the Wadden Academy-KNAW, an institute of the Royal Netherlands Academy of Arts and Sciences. His research has a strong focus on labour market issues like unemployment, employment, the dynamics of regional labour markets and migration. He has worked on and been successful in obtaining substantial funding for several major multi-disciplinary research projects on labour market issues. He is supervisor of 15 PhD projects, 9 of which have been completed successfully. Jouke van Dijk is Editor-in-Chief of Papers in Regional Science, Editor of the Springer Regional Science Series Advances in Spatial Science and Overseeing Editor of the Journal of Economic and Social Geography. He is advisor and consultant for the European Union, various ministries, provinces and municipalities, private firms and research institutes, the public employment service, educational institutes, unions and other organisations dealing with labour market issues and regional development. He is a member of the Socio Economic Council for the Northern Netherlands.

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Prof. Andries de Grip is Head of Research on Employment and Training at the Research Centre for Education and the Labour Market (ROA), Chair of the Board of NSI, and Professor of Economics at the School of Business and Economics (SBE), Maastricht University. Furthermore, he is Research Fellow of the Graduate School of Business and Economics at Maastricht University, IZA (Bonn) and Netspar (Tilburg), and independent member of the Labour Market Committee of the Dutch Social Economic Council (SER). He has been a project leader of a large number of research projects on behalf of several Dutch ministries, public employment services, the European Commission, the OECD, various sectors of industry and several other organisations. He graduated (“cum laude”) from the Free University of Amsterdam where he also obtained his PhD. He has published many studies in

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**Mr. Torbjörn Israelsson** is a Senior Adviser and works in the field of labour market policy at the Public Employment Service (SPES) in Stockholm. He has worked in the field for more than 30 years. The main focus of his work has been on labour market development and forecasting, both short term and long term, at the national level. In 2009 and 2010 he was a project leader of a nationwide project about the generational shift in Sweden, published as “The generational shift in the labour market – national and regional”. His other publications on this topic include: “Job for the future – occupations in the 2000s” and “Labour market supply in Sweden – outlook up to 2030”. He has worked on several international labour market projects in a total of 12 countries in Europe, Asia and Africa.

**Dr. Cristina Martinez-Fernandez** is a Senior Policy Analyst on Employment and Skills, Green Growth and South-East Asia at the Organisation for Economic Co-operation and Development (OECD), Local Economic and Employment Development (LEED) programme. She works on issues related to the challenges of skills and training systems for SMEs, entrepreneurial and innovation activities; industrial policy, climate change and the transformation of labour markets into a low-carbon economy; the challenges of demographic change and an ageing society for skills and employment development. Cristina also manages the OECD/LEED Initiative on Employment and Skills Strategies in Southeast Asia (ESSSA). Before joining the OECD she was an Associate Professor at the Urban Research Centre, University of Western Sydney in Australia where she led the Urban and Regional Dynamics Programme which analyses industry change, urban performance and socio-economic development within the frameworks of innovation, globalisation and the knowledge economy.

**Mr. Timo Mulk-Pesonen**, Bachelor of Arts in Study and Career Guidance (Umeå University), joined the Swedish Public Employment Service (SPES) in May 1989. Since 2008, he has been working at the Analysis Department at SPEC and is responsible for the labour market analysis and forecasting at the regional level in the County of Norrbotten. He has worked as a student counsellor and co-ordinator (Gothenburg), a co-ordinator for youth unemployment and the integration of refugees (Jokkmokk), and as the Manager of the Employment Office (1999-2005), a Member of the Nordic Employment Agency (1992-98), a qualified administrative officer at the Employment Agency (2005-08), project foresight at the Universities of Umeå and Luleå (demographics – greening the economy) (2008), a member of the construction panel technology entrepreneurs, and a representative of the
Mr. Marwin Nilsson joined the Swedish Public Employment Service (SPES) at the end of 2010. He works in the Analysis Department mainly on labour market forecasts. During his time at the SPES, he has also worked on various projects involving demographic changes and youth unemployment.

Prof. Philip Taylor has strategic oversight of academic research and graduate studies at the Monash University Gippsland Campus and leads his own programme of research of ageing workforces. He has researched and written in the field of age and the labour market for more than 20 years. His interests include individual orientations to work and retirement, employers’ attitudes and practices towards older workers and international developments in public policies aimed at combating age barriers in the labour market and extending working life. He has worked on and been successful in obtaining substantial funding for several major multi-disciplinary and international programmes of research on ageing and the labour market. He is currently leading the projects “Working Late” and “Retiring Women”, which are supported by major grants from the Australian Research Council, and is co-researcher on an NHMRC funded project “Working Longer”, with the University of Sydney. He is currently Chief Investigator on grants from the New South Wales Office for Ageing, Safe Work Australia and the Singapore Ministry of Manpower.

Jesper van Thor has been a Researcher since 2008 at the Labour Market Dynamics Department at the Research Centre for Education and the Labour Market (ROA), Maastricht University. During his study at Maastricht University he has been student assistant at ROA. His master thesis, which he also completed at ROA, examined the successful job search methods and duration for natives and non-western minorities respectively. One of his major research projects at ROA is the education and labour market project, in which labour market forecasts are differentiated by occupation and education. Other research projects that he has recently worked on focus on, amongst others, the role of distance deterrence in explaining study choice, the flexibility of the labour market, developments in study migration and the Dutch metal and electronics industry.

Dr. Femke Verwest works as a Researcher at PBL Netherlands Environmental Assessment Agency. She graduated in 2002 from the Leiden University in the field of Public Administration, and in 2011, she obtained her doctorate in the field of Management Sciences from Radboud University Nijmegen (title of her thesis “Demographic decline and local government strategies. A study of policy change in the Netherlands”). Since 2006, she has been studying demographic decline, its spatial consequences and spatial planning policies. She has written four books, several chapters, articles and papers about this subject, and has given numerous presentations for a policy, scientific and political audience.

Dr. Tamara Weyman works as a contracted expert for the OECD, on various projects involving employment and skills, SMEs development, South-East Asia, territorial development policy, and demographic change and sustainability. Recently Tamara has been involved in publications such as The Knowledge Economy at Work: Skills and Innovation in Knowledge Intensive Services Activities, “The territorial dimension of the European Social Fund: A local approach for local jobs”, Skills Development and Training in SMEs, “Demographic change and local development: Shrinkage, regeneration and social dynamics”; and a chapter in a forthcoming book entitled “From ‘up north’ to ‘down under’: Dynamics of shrinkage in mining communities in Canada and Australia” in Stories of Tough Times: International Perspectives and Policy Implication in Shrinking Cities. Tamara worked as a Research Associate at the Urban Research Centre, University of Western Sydney (UWS) and completed her PhD on Spatial Information Sharing for Better Regional Decision Making in 2007 at UWS. Since 2009, Tamara has been involved in the COST Action TU 0803 “Cities Regrowing Smaller”.

County Board’s Growth Committee (2008).
Prof. Leo J.G. van Wissen is Professor of Economic Demography at the University of Groningen, and Director of the Netherlands Interdisciplinary Demographic Institute (NIDI) in The Hague. The NIDI is an institute of the Royal Netherlands Academy of Arts and Sciences KNAW. His research centres on spatial aspects of demographic processes, migration, population decline, and more in general modeling of demographic processes. His PhD students have done research on all components of demographic change: fertility, mortality, migration, but also firm demography, regional population decline and elderly well-being. He served as Vice President of the Netherlands Society for Demography and President of the Dutch-speaking section of the Regional Science Association. He is a member of the Social Scientific Board of the KNAW, and member of the board of the European Doctoral School for Demography.

Dr. Jolanta Perek-Białas is Statistician and Economist (PhD, 2001, Institute of Statistics and Demography, Warsaw School of Economics, Poland). She also graduated from the Practical French School of Management – The Special Polish-French Programme of the Post-Graduate Study at the French Institute of Management. She was a participant of the Young Scientist Summer Programme in IIASA, Vienna in 1997 and received a scholarship of Prof. Leslie Kish at the Institute for Social Research, University of Michigan, Ann Arbor in 2002. She was also a fellow of the ERSTE Foundation under the “Generations in Dialogue” programme in 2009-10. Currently she works at the Warsaw School of Economics and since 2001 at the Institute of Sociology of the Jagiellonian University in Kraków, Poland as well. Since 1999 she has been involved in international projects under the 5th, 6th and 7th FP of the EU related to active ageing policy and relevant topics: PEN – REF, ACTIVAGE, TRIPLE-DOSE and ASPA. As well, she has been active in projects financed by: the Norwegian Research Council of Science, the VW Foundation and, recently, the OECD/LEED Programme. She is also an expert and advisor in projects on ageing issues at the national and regional level of Poland (i.e. the institutions of the Małopolska region, the Ministry of Labour and Social Policy, the Ministry of Regional Development). Her main scientific research interests include socio-economic consequences of population ageing in Poland and in selected Central and Eastern European countries, active ageing policy, reconciliation of work and care, social exclusion/inclusion of older people.

Mr. Jan Sundqvist, M.Pol.Sc (Åbo Akademi University), joined the Swedish Public Employment Service (SPEC) in April 1994. Since 1996 he has been working at the Analysis Department at SPES and is responsible for the labour market analysis and forecasting at the regional level in the County of Dalarna. Jan has been working as an international expert in developing methods for the national labour market analysing and forecasting in a number of European countries (Malta, the Former Yugoslav Republic of Macedonia, Serbia) and Northern Africa (Algeria, Morocco and Tunisia) since 2002. He specialises in demographic changes on the labour market and the different components of the demands of the workforce, especially in terms of skills and competencies. He is currently participating in a joint project with the Masarykov University in Brno, Czech Republic. The project “Active Matching: Strategic Support of Labour Market Counselling” is financed by the European Social Fund in the Czech Republic/Operational Programme: Human Resources and Employment (HREOP).

Prof. Iwona Sagan is the Head of the Department of Economic Geography, University of Gdańsk, and Co-ordinator of the RECOURE Centre of Excellence – “Research and Education Centre for Urban Socio-Economic Development”. Her primary research areas include: urban and regional governance, transformation of post-socialist cities, theory and methodology of regional studies. She is Head of the Metropolitan Experts’ Board of the Pomorskie Marshall Office as well as an advisor of both the Regional and City of Gdańsk Urban and Architecture Commissions. She is a research affiliate of the Martin Prosperity Institute, Rotman School of Management, University of Toronto.
Mr. Piotr Stronkowski joined Coffey in 2010. He works in the Warsaw office of the company as General Manager, Evaluation and Monitoring. Since joining Coffey, Piotr has specialised in designing and implementing evaluation and research projects in the areas of employment, social integration and education, principally for national authorities (Polish Ministry of Education, Polish Ministry of Labour and Social Policy) as well as regional authorities and international organisations (UNDP). Piotr has also been involved in international projects, including one financed by the UK Department for International Development (DFID) implemented in Kosovo.

Prof. Piotr Szukalski obtained his Ph.D in Economics at the University of Łódź, where he works as Chair of Applied Sociology and Social Work. He has published over 200 articles and chapters related to social gerontology, demography, inter-generational relations and family issues. His research interests are in family care-giving, older adults’ activities, economic activity of the elderly, ageism, inter-generational relations. He has been a recipient of research grants from: the Polish Committee of Scientific Research in the areas of population ageing and social policy (Family status of the oldest old and their economic and health status, 2002-04; The oldest old – demographic and epidemiological studies, 2006-08); the Institute of Public Affairs (Withdrawal or participation? Social and professional activity during retirement, 06-2007); the National Research Center (Marriage: beginnings and ends, 2011-13); the Ministry of Labour and Social Policy (Equalizing chances of people aged 45+ in the Polish labour market, 2010-13). Prof. Szukalski has been involved with international research projects, including as a member of the national research team for the IPROSEC (Improving Policy Responses and Outcomes to Socio-Economic Challenges: Changes to family structures, policy, and practice, 5FP), a member of the co-ordinating team for the PROFIT (Policy Responses Overcoming Factors in Inter-generational Transmission of Inequalities, 6FP). Dr. Szukalski has authored and co-edited four books, including *Przepływy międzypokoleniowe i ich kontekst demograficzny* (Intergenerational Transfers and the Demographic Change), *Nasze starzejące się społeczeństwo. Nadzieje i zagrożenia* (Our Aging Society. Opportunities and Threatens), *Rodzina w zmieniającym się społeczeństwie polskim* (Family in the Changing Polish Society); *Starość i starzenie się jako doświadczenie jednostek i zbiorowości ludzkich* (Old Age and Ageing as an Individual and Population Experience).

The Centre for the Local Public Human Resources and Policy Development (LORC), Ryukoku University, Kyoto, Japan, studies local public policies as well as public human resources. LORC has conducted internationally collaborative research into the nature of the institutional infrastructures and public human resources that are necessary to establish a sustainable regional society in today’s era of depopulation, by making its efforts, from multiple perspectives, to bridge theory and practice so that its research outcomes lead to the realisation of a vibrant and dynamic civil society. For more information, please visit http://lorc.ryukoku.ac.jp/en.
Talented young people in particular are moving away from areas affected by population decline, due to the lack of labour market prospects. A large part of the population, however, remains - even though they may be lacking the knowledge and skills needed by local businesses, which puts the viability of these businesses under pressure and generating a ‘labour market mismatch’. This report analyses these challenges looking also at the opportunities that new approaches to economic challenges can contribute for making our local communities more resilient.

The report is the result of an international project led by the Organisation of Economic Development and Co-operation (OECD) with the support of participant countries and the European Commission DG Employment, Social Affairs and Inclusion.

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