Slovak Republic

Regions and Cities at a Glance provides a comprehensive assessment of how regions and cities across the OECD are progressing in a number of aspects connected to economic development, health, well-being and the net zero-carbon transition. It presents indicators on individual regions and cities to assess disparities within countries and their evolution since the turn of the new millennium. Each indicator is illustrated by graphs and maps. The report covers all OECD countries and, where data is available, partner countries and economies.

Territorial definitions

The data in this note reflect different sub-national geographic levels in OECD countries:

- **Regions** are classified on two territorial levels reflecting the administrative organisation of countries: large regions (TL2) and small regions (TL3). Small regions are classified according to their access to metropolitan areas (Fadic et al. 2019).

- **Functional urban areas** consist of cities – defined as densely populated local units with at least 50 000 inhabitants – and adjacent local units connected to the city (commuting zones) in terms of commuting flows (Dijkstra, Poelman, and Veneri 2019). Metropolitan areas refer to functional urban areas above 250 000 inhabitants.

In addition, some indicators use the degree of urbanisation classification (OECD et al. 2021), which defines three types of areas:

- **Cities** consist of contiguous grid cells that have a density of at least 1 500 inhabitants per km² or are at least 50% built up, with a population of at least 50 000.

- **Towns and semi-dense areas** consist of contiguous grid cells with a density of at least 300 inhabitants per km² and are at least 3% built up, with a total population of at least 5 000.

- **Rural areas** are cells that do not belong to a city or a town and semi-dense area. Most of these have a density below 300 inhabitants per km².

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Regional economic trends

Employment and unemployment rates in regions

In the Slovak Republic, regional disparities in unemployment rates are stark compared to other OECD countries. While in East Slovakia 10.7% of the working force was unemployed in 2022Q2, the share was 2.1% in Bratislava Region.

Meanwhile, the difference in employment rate between the regions with the highest (Bratislava Region) and lowest (East Slovakia) employment rates reached 10 percentage points in 2022.

Figure 1: Unemployment rates in large regions, 2022Q2
The first year of COVID-19 on GDP per capita

The first year of COVID-19 resulted in a decrease in GDP per capita in all Slovak regions. Central Slovakia, a region with a GDP per capita -20% below the national average (25 316 vs. 31 832 USD PPP), experienced the largest decrease in GDP among Slovak regions, of approximately -6%.
Note: GDP per capita is measured in constant prices and constant PPPs, reference year 2015. Constant prices are calculated using national deflators. The OECD median corresponds to the median decline in GDP per capita observed across OECD large regions over the period.

**Trends in regional economic disparities in the last decade**

Differences between Slovak regions in terms of GDP per capita have slightly decreased over the past nine years. Higher growth in the lagging regions has driven such decrease.

![Graph showing index of regional disparities in GDP per capita](image)

**Figure 5: Index of regional disparities in GDP per capita (richest 20% relative to poorest 20% of regions)**

Note: The GDP per capita of the top and bottom 20% regions are defined as those with the highest/lowest GDP per capita until the equivalent of 20% of the national population is reached. A ratio of 2 means the richest regions have a GDP per capita twice as large as the poorest regions. The indicator is calculated using large regions, except for Latvia and Estonia, where small regions are used instead. Irish GDP underwent an upwards revision in 2016. Care is advised in its interpretation.


**Productivity trends in the last decade**

Between 2010 and 2019, East Slovakia and Central Slovakia experienced the highest and lowest productivity growth in the Slovak Republic, respectively. East Slovakia saw a labour productivity increase of 1.7% per year, above the OECD average of 0.9%\(^1\). During the same period, Central Slovakia experienced more modest growth in measured labour productivity, averaging 0.7% per year.

All Slovak regions experienced a decline in labour productivity between 2019 and 2020. Central Slovakia experienced the largest decline, with a drop of 4.9%

\(^{1}\) International comparability in 2019 and 2020 is limited because of methodological differences in the calculation of employment counts during the height of the COVID-19 economic crisis.
Well-being, liveability and inclusion in regions

Regional well-being

The Slovak Republic faces stark regional disparities across five well-being dimensions, with the starkest disparities in terms of jobs, income and civic engagement.

Relative to other OECD regions, the Slovak Republic performs best in the education dimension, with most of Slovak regions lying in the top 20% of OECD regions.
The top 20% of Slovak regions rank above the OECD median region in 8 out of 14 well-being indicators, performing best in terms of population with at least upper secondary education and employment rate.

<table>
<thead>
<tr>
<th></th>
<th>Country average</th>
<th>Median OECD region</th>
<th>Slovak regions</th>
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<tbody>
<tr>
<td><strong>Jobs</strong></td>
<td></td>
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<tr>
<td>Employment rate 15 to 64 years old (%)</td>
<td>69.4</td>
<td>68.5</td>
<td>76.3</td>
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<tr>
<td>Unemployment rate 15 to 64 years old (%)</td>
<td>6.9</td>
<td>5.8</td>
<td>3.4</td>
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<td><strong>Income</strong></td>
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<tr>
<td>Disposable income per capita (in USD PPP), 2019</td>
<td>16,925</td>
<td>20,601</td>
<td>22,176</td>
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<td><strong>Civic engagement</strong></td>
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<tr>
<td>Voters in last national election (%), 2020</td>
<td>65.8</td>
<td>66.7</td>
<td>70.6</td>
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<td><strong>Access to services</strong></td>
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<td>Households with broadband access (%), 2021</td>
<td>90.0</td>
<td>86.0</td>
<td>94.0</td>
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<td>Internet download speed deviation from OECD average (%), 2021-Q4</td>
<td>-27.0</td>
<td>-2.8</td>
<td>-10.3</td>
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<tr>
<td><strong>Safety</strong></td>
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<td>Homicide Rate (per 100,000 people), 2021</td>
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<td>1.4</td>
<td>0.8</td>
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<tr>
<td><strong>Education</strong></td>
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<tr>
<td>Population with at least upper secondary education, 25-64 year-olds (%)</td>
<td>93.3</td>
<td>89.4</td>
<td>96.3</td>
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<td><strong>Health</strong></td>
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<td>Life Expectancy at birth (years), 2020</td>
<td>77.0</td>
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<td>Age adjusted mortality rate (per 1000 people), 2021</td>
<td>12.7</td>
<td>8.0</td>
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<td><strong>Environment</strong></td>
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<td>Level of air pollution in PM2.5 (µg/m³), 2020</td>
<td>15.5</td>
<td>10.8</td>
<td>13.9</td>
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<td><strong>Life Satisfaction</strong></td>
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<td>Life satisfaction (scale from 0 to 10), 2016-20</td>
<td>6.4</td>
<td>6.8</td>
<td>6.5</td>
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<td><strong>Community</strong></td>
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<td>Perceived social network support (%)</td>
<td>91.9</td>
<td>90.5</td>
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<td><strong>Housing</strong></td>
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<tr>
<td>Rooms per person, 2020</td>
<td>1.2</td>
<td>1.6</td>
<td>1.2</td>
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</tbody>
</table>

Figure 8: How do the top and bottom regions fare on the well-being indicators?

Note: Regional well-being indices are affected by the availability and comparability of regional data across OECD countries. The indicators used to create the indices can therefore vary across OECD publications as new information becomes available. For more visuals, visit https://www.oecdregionalwellbeing.org.

**The digital divide**

Fixed Internet connections in Slovak cities and rural areas deliver speeds significantly faster than the OECD average (8% and 59%, respectively). This gap (51 percentage points) is larger than in most other OECD countries.
Figure 9: Speed of fixed Internet connections relative to the OECD average, by degree of urbanisation, 2021Q4

Note: Cities and rural areas are identified according to the degree of urbanisation (OECD et al. 2021). Internet speed measurements are based on speed tests performed by users around the globe via the Ookla Speedtest platform. As such, data may be subject to testing biases (e.g. fast connections being tested more frequently), or to strategic testing by ISPs in specific markets to boost averages. For a more comprehensive picture of Internet quality and connectivity across places, see OECD (2022), “Broadband networks of the future”.


The average speed of fixed Internet connections is above the OECD average in 1 out of 4 Slovak regions. Within the country, residents of Bratislava Region, West Slovakia and East Slovakia experience the fastest connections.
Relative poverty rates

In the Slovak Republic, relative poverty rates\(^2\) range from 6% to 22% across regions. This 16 percentage point difference is in line with the average difference observed across the 29 OECD countries with available data (16 percentage points).

\(^2\) The relative poverty rate gives the share of people – as a % of the regional population – with an income below the relative poverty line (60% of the national median income).
Figure 11: Relative poverty rates in 2018

Note: The OECD median gives the median relative poverty rate observed in a sample made of 326 large regions (from 28 countries), and 28 small regions (from Denmark, Lithuania and the Slovak Republic). Data corresponds to 2020 or the latest available year.

Demographic trends in regions and cities

Population projections by type of regions across OECD countries

Between 2020 and 2040, the population of the Slovak Republic is expected to grow in metropolitan regions and decrease in other types of regions. Metropolitan regions are expected to see the greatest change, with their population increasing, on average, by 7% over the next two decades.
Dependency rate and proportion of the elderly

In the coming two decades, the share of the elderly population in the Slovak Republic is expected to increase across all types of regions.

The elderly dependency rate\(^3\) in the Slovak Republic is also lower than the OECD average (26.8 %) in all regions, ranging from 27.4% in West Slovakia to 22.8% in East Slovakia.

\(^3\) The elderly dependency rate compares the number of elderly people at an age when they are generally economically inactive (i.e. aged 65 and over), to the number of people of working age (i.e. 15-64 years old).
Figure 13: Elderly dependency rate in large regions, 2021

Figure 14: Evolution of the elderly population by type of region
**Population in cities**

Between 2010 and 2021, 62% of cities in the Slovak Republic experienced a rise in population. Population growth ranged from -0.3% per year in Nitra to 1.1% per year in Bratislava.

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**Figure 15: Population growth between 2010 and 2021**

**Figure 16: Population in OECD functional urban areas, 2021 or latest available year**
Over the past decade, the population has grown the most in Slovak cities with 250,000 to 1.5 million inhabitants. Cities with 50,000 to 100,000 inhabitants have seen their population shrink, on average.

![Population by size of functional urban area (100 = value in 2010), 2010-2021](image)

**Environmental challenges in regions and cities**

**Greenhouse gas emissions in regions**

Since 1990, production-based greenhouse gas emissions have decreased in all Slovak regions. East Slovakia (-23%) and West Slovakia (-54%) experienced the lowest and largest decline in emissions, respectively.

On average, Slovak regions decreased their emissions by 1.60% per year between 1990 and 2018. This is below the 1.93% yearly reduction rate needed to reach the EU target of a 55% reduction in emissions by 2030, with respect to 1990 levels.
Figure 18: Change in production-based emissions in large regions, 1990-2018

Note: Bubbles are proportional to per capita greenhouse gas emissions, not to the overall level of greenhouse gas emissions in the region. Source: OECD calculations, based on the Emissions Database for Global Atmospheric Research (European Commission. Joint Research Centre. 2019).

In 2018, greenhouse gas emissions per capita in the Slovak Republic were largest in Bratislava Region, East Slovakia and West Slovakia.
Figure 19: Production-based greenhouse gas emissions per capita in large regions, 2018

Note: Regions with low population counts may rank high in greenhouse gas emissions per capita while contributing relatively little to overall emissions in the country.

**Urban heat island effect**

In Slovak cities, the difference in temperature between cities and their surrounding areas (i.e. urban heat island intensity) reaches 2.2 degrees Celsius (°C). The largest effect is observed in Banska Bystrica and Zilina, two cities that are, on average, 2.7°C and 2.9°C warmer than their surrounding areas, respectively.
Note: The Urban Heat Island Intensity (UHI) index is defined as the difference in land surface temperature between built-up areas and non-built-up areas within functional urban areas. This index can be affected by the type of vegetation and climate in non-built-up areas.
Source: OECD calculations, based on land surface temperature data from NASA’s Moderate Resolution Imaging Spectroradiometer (MODIS) (Wan, Hook, and Hulley 2021a, 2021b)
References

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