## **CANADA**

Canada's innovation performance exhibits both strengths and weaknesses. It scores high in terms of the quantity and quality of scientific articles, but the number of triadic patents remains under the OECD and EU25 averages. It performs well in terms of firms with new-to-market product innovations, especially among SMEs, but the share of turnover due to these products is among the lowest in the OECD area. More broadly, productivity growth has become a concern. While labour productivity grew above the OECD average from 1995 to 2000, it has since weakened, with annual growth of 1% in 2001-06, compared to an OECD average of 1.8%.

These outcomes partly reflect the characteristics of the innovation system. Canada has a highly educated population, a substantial workforce engaged in science and technology occupations, and steady growth in research personnel (annual average growth of over 4% from 1995 to 2004, above the OECD average). The higher education sector accounts for a substantial share of research. However, only a small percentage of innovative firms collaborate with public research organisations, especially universities. Moreover, business expenditure on R&D was just over 1% of GDP in 2006, well below both the OECD average of 1.56% and the 1.84% of the United States. Business investment has declined sharply since 2001 and overall R&D intensity is, at just under 2% of GDP, below the OECD average.

The structural characteristics of the economy – an important resource-based sector and relatively few large firms – may partially account for low business R&D

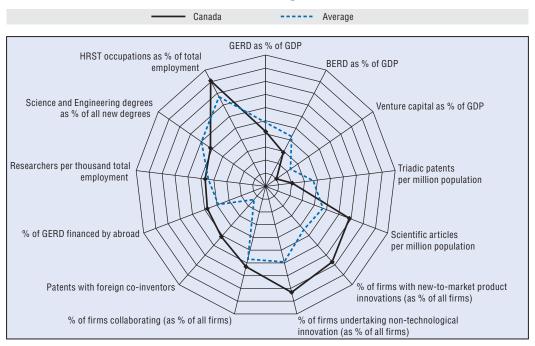
intensity and explain the large concentration of business R&D in a handful of companies. The top ten companies have carried out one-third of all R&D over the past 20 years.

To address these concerns, the Canadian government launched in 2007 Mobilizing Science and Technology to Canada's Advantage, a new framework to guide future national science and technology policy. Its aim is to increase private-sector investment in R&D, to foster practical applications of research performed in Canada, and to create a well-educated, skilled and flexible workforce. It also aims to enhance co-ordination and co-operation between the federal government and the provinces.

These objectives are reflected in the Budget Plan 2007 and several new initiatives, such as the Centres of Excellence in Commercialisation and Research, the decision to make the College and Community Innovation Program a permanent scheme, and the introduction of new business-led research networks in the Networks of Centres of Excellence. These actions all aim at strengthening public-private research and commercialisation partnerships.

In addition, in support of research excellence and skills enhancement, extra resources have been allocated to granting councils and to existing programmes such as the Canada Social Transfer. A new Industrial R&D Internship Program has also been established. Finally, there is a strong commitment to explore and develop new initiatives to boost business R&D and improve the framework conditions for entrepreneurship.

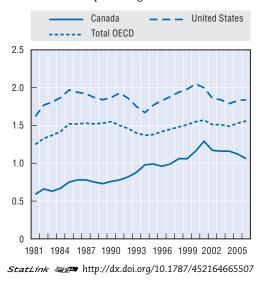
## Science and innovation profile of Canada



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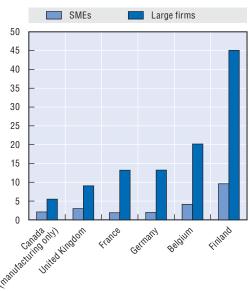
## Business expenditure on R&D, 1981-2006

As a percentage of GDP



## Firms collaborating in innovation, by size, 2002-04 (or nearest available years)

As a percentage of all firms



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