

- **Cyber-security.** Canada's cyber-security sector specializes in cryptography and encryption, mobile authentication, biometrics, surveillance, tracking and sensors. Canada also has three of the world's best laboratories authorized to evaluate and certify security products.

## Wireless and Mobile Communications

- **Beyond 3G.** Canada is at the forefront of next-generation network (NGN) technologies for wireless data transfer. LTE technology is already available to mobile users in Canada's major cities and its deployment across the country will accelerate during 2012. New mobile-broadband applications made possible by 4G/LTE networks are being developed in Canada, as well as video-on-demand, Internet radio and other wireless-broadband services.
- **Global leader.** Canada's 300 wireless firms are considered global leaders in several areas, such as mesh networks, WiMAX, RFID, UWB, SDR, along with broadband, satellite, and fibre-optic applications. The strong, long-term potential of the Canadian market encourages the country's telecommunications companies to invest more than \$1 billion each year to improve wireless services and efficiency.
- **Attractive market.** The companies are attracted by Canada's highly educated and experienced workforce, competitive labour costs, world-class R&D and favourable tax rates and benefits, along with a savvy and fast-growing consumer market. Indeed, Canadian consumers will spend some \$6 billion on mobile devices in 2012 and by the end of that year, the number of smart phones in the country is expected to equal that of portable laptop and tablet computers.
- **Just the beginning.** Global heavyweights have invested in Canada's wireless industry by establishing R&D centres in major Canadian cities. Most of these centres continue to expand, with new projects or additions to campuses dedicated to optical, wideband-CDMA wireless, security and network-access technologies. Canada is also home to leading-edge research into nanomaterials and next-generation power amplifiers. Canada has significant expertise in developing imaging software, multimedia chipsets and RF components for mobile platforms.