



Ottawa's exciting 5G sector

BlackBerry | **QNX**

ERICSSON

NOKIA

Ottawa: Canada's 5G leader

INNOVATION IS OUR ANSWER

Ottawa is leading Canada's charge in 5G. The city is home to world-class leaders and boasts a long history in telecommunications. Ottawa has strengths in terrestrial hardwire 5G — the kind that delivers internet to our houses — but it also has a strong wireless 5G presence — intelligent wifi and radiofrequency work, for example. Finally, Ottawa is a leader in satellite 5G, with companies such as Honeywell, Orbcomm and Telesat. World leaders such as Ericsson and Nokia have research and development centres in the city and Ericsson has partnered with one of Ottawa's six post-secondary institutions to foster next-generation talent. The city was the first in Canada to have 5G technology and is one of five in Quebec and Ontario taking part in ENCQOR, a public-private partnership for 5G research and innovation. Housed at Invest Ottawa's Bayview Yards, ENCQOR is a 5G testbed where businesses can demo their products.

OTTAWA AT A GLANCE

\$40 billion
Estimated annual
GDP growth from 5G





1,750
Knowledge-based
companies

76,200
Tech
employees



- #1 for highest tech talent intensity in North America
- Home to 90% of Canada's industrial telecom R&D
- Area X.O is the first integrated V2X test facility of its kind in North America
- G7 capital, home to 65 government research labs and 136 embassies

Our immigration advantage

-  Get work permits in as few as two weeks
-  Two dedicated programs
-  No quotas or caps
-  Pathway to permanent residency



INDUSTRY

Sector stars and startups

- The cluster is supported by foundational and leading R&D players such as Nokia, Cisco, Ciena and Ericsson.
- Anchored by BlackBerry QNX, Ottawa's CAV cluster includes more than 100 companies.
- Local start-ups like Cheetah Networks, Ranovus, and ThinkRF are spearheading 5G innovation, next-generation networks and communications that will revolutionize the future.

ACADEMIA

Tech talent feeders

- With the only communications engineering program in Canada, Carleton University partnered with Ericsson to adapt programs to match industry's needs even better.
- The University of Ottawa is a world leader in photonics and its Advanced Research Centre (ARC) provides a rigorous training ground for future talent.
- Algonquin College's photonics and laser technology program gives graduates a bachelor's degree and an advanced diploma.

GOVERNMENT

Support systems

- Ottawa has Canada's largest concentration of 5G R&D; the Communications Research Centre Canada is an applied research centre for advanced telecommunications.
- The National Research Council's Advanced Electronics and Photonics Research Centre gives industry access to its cutting-edge facilities. NRC also hosts the Canadian Photonics Fabrication Centre.
- ENCQOR/CENGN brings together public and private players to help SMEs speed up commercialization through no-cost access to its high-powered computing and networking testbed.

Ottawa's 5G Ecosystem

Industry Leaders



Academia



Government



AREA X.O

Area X.O, a 1,866-acre state-of-the-art futureplex, offers:

- One of the world's most advanced communications test infrastructures;
- V2X (vehicle-to-everything) testing, validation and demonstration in a four-season climate;
- Cybersecurity solutions and industry-leading data gathering, analysis and cloud capabilities;
- Unrivalled proximity to policymakers, regulators and private-sector investors.

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