

CENGN Annual Report FY 2019 Sources

Opportunity in the Global ICT Market

Evolution of mobile connectivity: Mike Galvin, BT

Global connectivity landscape by 2022: <https://www.cisco.com/c/en/us/solutions/service-provider/vni-network-traffic-forecast/infographic.html>

Canada's innovative performance: <https://www.bloomberg.com/graphics/2015-innovative-countries/>

ICT job opportunity in Canada: <https://data.oecd.org/ict/ict-employment.htm>

Smart mining

- Mining employs more than 632,000 workers across Canada: <https://mining.ca/resources/mining-facts/>
- \$97 billion of Canada's GDP is generated by the mining industry: <https://mining.ca/resources/mining-facts/>
- Between 2018 and 2025, the global smart mining market is expected to increase from \$8.6 B to \$22.2 B: <https://www.globenewswire.com/news-release/2019/05/13/1822373/0/en/Global-Smart-Mining-Market-Will-Reach-to-USD-22-19-Billion-By-2025-Zion-Market-Research.html>

Smart agriculture

- 2.3 million Canadians employed in the agriculture industry: https://www.canada.ca/en/agriculture-agri-food/news/2017/11/canada_s_agriculturalsectorcontinuestoseeeconomicgrowth.html
- \$111.9 billion of Canada's GDP is generated by the agriculture industry: https://www.canada.ca/en/agriculture-agri-food/news/2017/11/canada_s_agriculturalsectorcontinuestoseeeconomicgrowth.html
- Between 2015 and 2020, IoT installations in agriculture will increase from \$30 M to \$75 M: <https://www.businessinsider.com/internet-of-things-smart-agriculture-2016-10>

Smart health

- 1,970,297 employees in health care and social assistance across Canada: <https://www150.statcan.gc.ca/t1/tbl1/en/tv.action?pid=1410020201>
- \$226 billion spent on healthcare in Canada: <https://nationalpost.com/health/how-much-does-the-average-canadian-pay-for-public-health>
- \$158.1 billion value of connected healthcare market by 2022: <https://www.marketwatch.com/press-release/iot-in-healthcare-market-to-witness-steady-growth-at-308-cagr-during-2022-2018-09-19>

Smart city

- Between 2017 and 2022, the global smart building market is projected to grow from \$7.4 billion to \$31.7 billion: <https://www.electricalindustry.ca/latest-news/3487-smart-building-market-to-quadruple-by-2022>
- The global market for autonomous vehicles will be worth \$54.23 billion in 2019 and increase to \$556.67 billion by 2026: <https://www.forbes.com/sites/edgarsten/2018/08/13/sharp-growth-in-autonomous-car-market-value-predicted-but-may-be-stalled-by-rise-in-consumer-fear/#7ddd4269617c>
- Between 2018 and 2025, the global traffic management market is expected to increase from \$29.7 billion to \$71.9 billion: <https://www.globenewswire.com/news-release/2019/03/05/1747836/0/en/Global-Traffic-Management-Market-Will-Reach-USD-71-9-Billion-By-2025-Zion-Market-Research.html>

Additional NGNP Program Streams

- The agriculture sector is crucial to Canada's economy, accounting for 6.7% of Canada's total GDP and providing Canadians over 2.3 million jobs.
 - o https://www.canada.ca/en/agriculture-agri-food/news/2017/11/canada_s_agriculturalsectorcontinuestoseeeconomicgrowth.html
- Canada ranks in the top 5 for global production of 16 major minerals and metals, with Ontario having the most active mines of any province or territory. Making up over \$97 billion of our country's GDP, the mining sector is crucial to Canada's economy.
 - o <https://mining.ca/resources/mining-facts/>