CEO Letter (Page. 4)
- the Canadian economy will rebound strongly, growing over 6% in 2021 and around 4% in 2022 (OECD, Economic Forecast Summary (May 2021))

CENGN Residential Broadband Program (Page. 11)
- 46% of rural households have access to broadband (CRTC, Broadband Fund: Closing the digital divide in Canada, March 19, 2021)
- Only 24% of Indigenous communities have access to high-speed internet (Future of Good, COVID-19 is Highlighting Canada’s Digital Divide. What Can We Do About It?, April 16, 2020)

Opportunity in the Global ICT Sector (Page. 12 and 13)
- Rural and Northern Stats
  - Only 46% of rural households and 24% of Indigenous communities have access to high-speed internet (CRTC, Broadband Fund: Closing the digital divide in Canada, March 19, 2021) and (Future of Good, COVID-19 is Highlighting Canada’s Digital Divide. What Can We Do About It?, April 16, 2020)
  - Download/upload speeds in rural Canada (CIRA, New Internet Performance Data Shows the Staggering Scale of Canada’s Urban-Rural Digital Divide, May 8, 2020)
  - 54% of rural households lack access to 50/10 Mbps speeds (CRTC, Broadband Fund – Closing the Digital Divide in Canada, March 19, 2021)
  - Over 1/3 of Canadians make sacrifices to afford home internet (Acorn Canada, Barriers to Digital Equity in Canada pg 7, 2018)
- 5G Stats
  - 5G offers the tools to reduce greenhouse gas emissions (CENGN, 5G Climate Change: 4 Ways 5G is Helping the Environment, February 23, 2021)
  - 5G towers reduce CO2 emissions up to 80% (ComSoc, Nokia Deploys 1st Liquid Cooled Base Station in Helsinki, Finland, December 12, 2018)
  - 5G stations and carbons emissions (Mobile World Live, Power a Greener 5G Era with Huawei 5G Power, May 27, 2019)
  - Canadian wireless sector spending for 5G (CENGN Whitepaper)
- Canada’s Digital Economy
  - 5.1% of the Canadian workforce are in digital occupations (Technation Canada, Bridging the Digital Skills Gap, January 2020)
  - 34% of tech companies face difficulty filling ICT positions (Technation Canada, Bridging the Digital Skills Gap, January 2020)
  - 1 in 4 Canadian STEM graduates opt to work outside of Canada (Brock U, Reversing the Brain Drain, Where is Canadian STEM Talent Going?, May 4, 2018)
- Economic Prosperity (Canada)
  o Global GDP by 2022 (IDC, IDC Reveals 2021 Worldwide Digital Transformation Predictions, October 29, 2020)
  o Employment (Newswire, Canada’s Technology Industry Continues on Growth Path, CompTIA Cyberprovinces, September 9, 2020)
  o Pandemic and Jobs (Innovation Economy Council, How Canada is Fighting the War on Talent, December 8, 2020)
  o Canada’s rank on Global Innovation (17th) (WIPO, Global Innovation Index 2020, September 2020)
  o Economic trends and issues in Canada’s tech sector (Conference Board of Canada, Innovation, May 2018)

- Smart Mining
  o Growth (Allied Market Research, Smart Mining Market by Type, March 2021)
  o Smart mining IoT technologies (CENGN, CENGN’s Smart Mining Living Lab: Enabling the Future of Mining, December 1, 2020)

- Precision Agriculture (Delphi Group, How Precision Agriculture Can Revolutionize Canada’s Agri-food Sector, July 5, 2019)

- eHealth (PWC, No longer science fiction, AI and robotics are transforming healthcare, June, 2017)

- Smart Cities (CENGN, 5G Climate Change: 4 Ways 5G is Helping the Environment, February 23, 2021)


CENGN Smart Agriculture and Smart Mining Labs (Page. 18)

- The agriculture sector is critical to Canada’s economy, accounting for 7.4% of Canada’s total GDP and providing Canadians with over 2.3 million jobs. [Overview of the Canadian agriculture and agri-food sector 2018]

- Canada ranks in the top 5 for the global production of 13 major minerals and metals, with Ontario having the most active mines of any province or territory. For a total impact of $109 billion, Mining represents 4.6% of Canada’s GDP [...]. (The State of Canada’s Mining Industry – Facts and Figures 2020)