Smart Mining Living Lab

> CENGN's Smart Mining Living Lab is located in the NORCAT Underground Center in Onaping Falls, Ontario. A research facility built using Nokia & Northern Light Technlogies' solutions in a real mining site.



The smart mining market is expected to grow 150% over the next 7 years.

LAB TECHNICAL INFRASTRUCTURE

The lab is fully equipped with Nokia's advanced

LTE/4.9G private wireless network and NLT's lighting and communications solutions.

SUPPORTED APPLICATIONS

push-to-video (PTV) services Low-latency edge computing for remote and Automated operations

Low-power sensor networks,

and drone surveillance

IoT sensor deployments

Telemetry

Mission-critical push-to-talk (PTT) and

NOKIA

nto

Accelertating Innovation in Mining

The Smart Mining Living Labis designed and funded to support Canadian companies in the testing and commercilaization of smart mining solutions.

Each project will involve the testing of physical products in the living lab at the NORCAT site. Project companies will have a direct connection to CENGN's cloud infrastructure, allowing them complete end-to-end testing of their solution; from device to hub to their cloud platform.

This opens the door for scale testing and validation of complex machine learning (ML) and artificial intelligence processing, mass Internet of Things (IoT) depolyments and other technologies related to mining.

Smart Mining Project Categories



Smart Clothing, Helmets, Lights, or other Wearable Devices



Autonomous Mining Equipment and Robotic Mining Devices



Inventory, Productivity, or Workflow Tracking for Mining Operations



Drone-Mounted Mining Devices

Enable your innovative mining solutions by leveraging CENGN's Living Lab, Cloud Infrastructure and Expertise. Submit A Project: cengn.ca/smart-mining-program/

