The CENGN Smart Greenhouse Living Lab is located at DC Farms in Kingsville, Ontario. An active greenhouse that can host company technologies for validation in a real environment.

Canada’s Agricultural Sector generated $111.9B to GDP in 2016. Agricultural demand in 2050 will be 50% higher than it was in 2013.

Driving Innovation in Agriculture
The Smart Greenhouse Living Lab is designed and funded to support Canadian companies in the testing and commercialization of smart agriculture solutions.

Each project will involve the testing of physical products in the living lab at the DC Farms site. Project companies will also have direct access to CENGN’s cloud infrastructure, allowing them to complete end-to-end testing of their solution; from device to hub at the living lab to their cloud platform running on the CENGN cloud.

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

Smart Greenhouse Living Lab Project Categories

- Greenhouse Vegetables and Production Monitoring
- Disease Detection
- Harvest Optimization
- AI Video Crop Monitoring

Validate Your Smart Agriculture Technology Solution in a Commercial Grade Infrastructure
Submit a Project: cengn.ca.smart-agriculture-program

LAB TECHNICAL INFRASTRUCTURE
The CENGN Smart Greenhouse Living Lab will feature CENGN owned wireless infrastructure, commercially available wireless services sourced through a local internet service provider (ISP), and an on-site mini-data centre for local bare-metal services and processing capacity.

SUPPORTED APPLICATIONS
- Wireless IoT sensor deployments
- Mission-critical push-to-talk (PTT) and push-to-video (PTV) services
- Low-latency edge computing for remote and automated operations and drone surveillance
- Low-power sensor networks
- Robotic crop disease detection
- Financial or greenhouse business/productivity optimization