

Smart Greenhouse Living Lab

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.

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

Low-latency edge computing for remote

and automated operations and drone

Wireless IoT sensor deployments Mission-critical push-to-talk (PTT) and

push-to-video (PTV) services

Low-power sensor networks

productivity optimization

Robotic crop disease detection Financial or greenhouse business/

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.

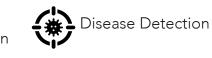
Each project will involve the testing of physical products in the living lab at the DC Farms site. Project companies will also have direct access to CENGN's cloud infrastructure, allowing them to complete end-to-end testing of their solution; from device to hub at the living lab to their cloud platform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





Harvest Optimization

surveillance



Al Video Crop Monitoring

Validate Your Smart Agriculture Technology Solution in a Commercial Grade Infrastructure

Submit a Project: cengn.ca/smart-agriculture-program



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