

VOLATUS CASE STUDY INTEGRATING CARGO DRONES INTO ORONES INTO GONTROLLED AIRSPACE AT EDMONTON INTERNATIONAL AIRPORT

2022 / CASE STUDY INTEGRATING CARGO DRONES INTO CONTROLLED AIRSPACE AT EDMONTON INTERNATIONAL AIRPORT

INTRODUCTION

Drone deliveries are taking off at Edmonton International Airport. Drone Delivery Canada ("DDC") a Volatus Aerospace ("Volatus") company has partnered with Edmonton International Airport ("YEG") and key logistics partners to incorporate cargo drones into a complex airspace as a first step towards creating a sophisticated drone logistics network aimed at connecting multiple airports across the country.

CHALLENGES & OBJECTIVES

For most courier companies, timesensitive cargo including small parcels can be high priority with an expedited delivery.

The increasing surface roadway congestion means that shippers & forwarders are looking for new solutions that quickly, reliably and efficiently expedite priority cargo, which are often high-value and lowweight.

Airports and logistics organizations are also faced with substantial ESG mandates to meet their goals of reducing CO2 emissions.







SOLUTION

DDC has set up the appropriate infrastructure for take-off and landing at YEG to provide an advanced drone cargo logistics solution, made up of a sophisticated ecosystem of products including its proprietary software system, hardware and professional services.

The solution is offered as a managed service and requires minimal handling from the customer who requests shipments through DDC's software and loads/unloads cargo.



RESULTS

This innovative solution adds value by bridging the gap between nonefficient modes of transport and the high demand of expedited delivery. The disruptive technology delivers cargo in both directions multiple times a day, resulting in the rapid, reliable and safe transportation of goods.

By working with YEG, Air Canada Cargo and logistics partners Apple Express & Ziing Final Mile, DDC is modernizing the supply chain industry by setting up a drone link between the airport and the industrial park in Nisku, Alberta. The result is a hub-and-spoke environment for the airport's strategic customers and partners, unlocking logistical benefits to the region and new revenue opportunities. DDC's drone logistics platform elevates inter-modal connectivity to support the growing e-commerce and courier industries.

The YEG project is DDC's first international airport drone solution and the first of its kind in the country and the world

