



Skyparts

UAS BVLOS in Segregated Airspace (Oban-Lochgilphead) – ACP-2020-055

CAA Airspace Change Assessment Meeting

13 August 2020



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Issues or Opportunities

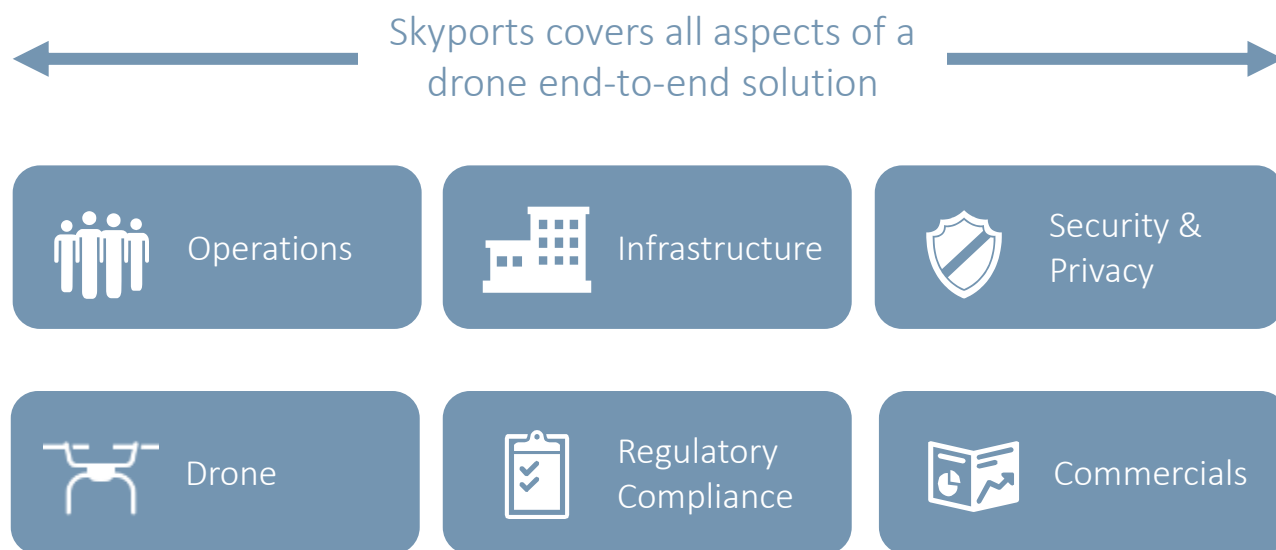


Skyports

develops, implements and
operates end-to-end drone
deliveries overcoming
inefficiencies associated with
traditional transportation
methods within the medical, e-
commerce and logistics sectors



Skyports is a cargo delivery one stop shop service provider



Skyports is a drone operator not a manufacturer. We choose the right vehicle for the mission and take care of all aspects of the end-to-end drone solution

We are committed to operating to the highest standards of safety

Overview of the Skyports vehicle for this mission



Range:
Up to 100km

Payload
Up to 6kg

1000s of BVLOS
kilometres flown

Speed:
150km/h max, 90km/h cruise

Maximum take off weight:
16kg

Flight time:
Up to 120 minutes

Wind Resistance:
Up to 15m/s

Dimensions:
178cm x 132cm x 52cm

Power:
Electric

Communications:
Failover radio / LTE / SatCom system

Cold Chain:
Tested cold-chain storage (when required)

Missions:
Delivery



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COVID-19 Response Need:

- Skyports has received a written request from an NHS Board in Scotland to aid them in their response to COVID-19
- The project is part funded through a joint initiative by the European and UK Space Agencies to utilise space-enabled technology to assist with the Covid-19 response

Multi-Month Trial:

- Skyports will operate a BVLOS drone delivery trial service during a minimum three-month trial
- Skyports will deliver COVID-19 testing kits, medical samples and equipment between multiple NHS healthcare facilities on the west coast of Scotland

Objectives:

- Skyports will integrated its drone service into the NHS supply chain
- Develop its route network during the trial provide to assist more healthcare facilities with COVID-19 response

Airspace Segregation:

- Skyports believes it will require volumes of segregated airspace for the period of the trial to safely execute its operations





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COVID-19:

- The project is a direct industry response to the UK Government's call for help to address and mitigate the health and social impacts of the COVID-19 pandemic
- Contribute to the understanding of and viable responses to COVID-19

Community Support:

- A medical drone delivery service has the potential to provide vital access to medical care for hard-to-reach communities

Scale-Up:

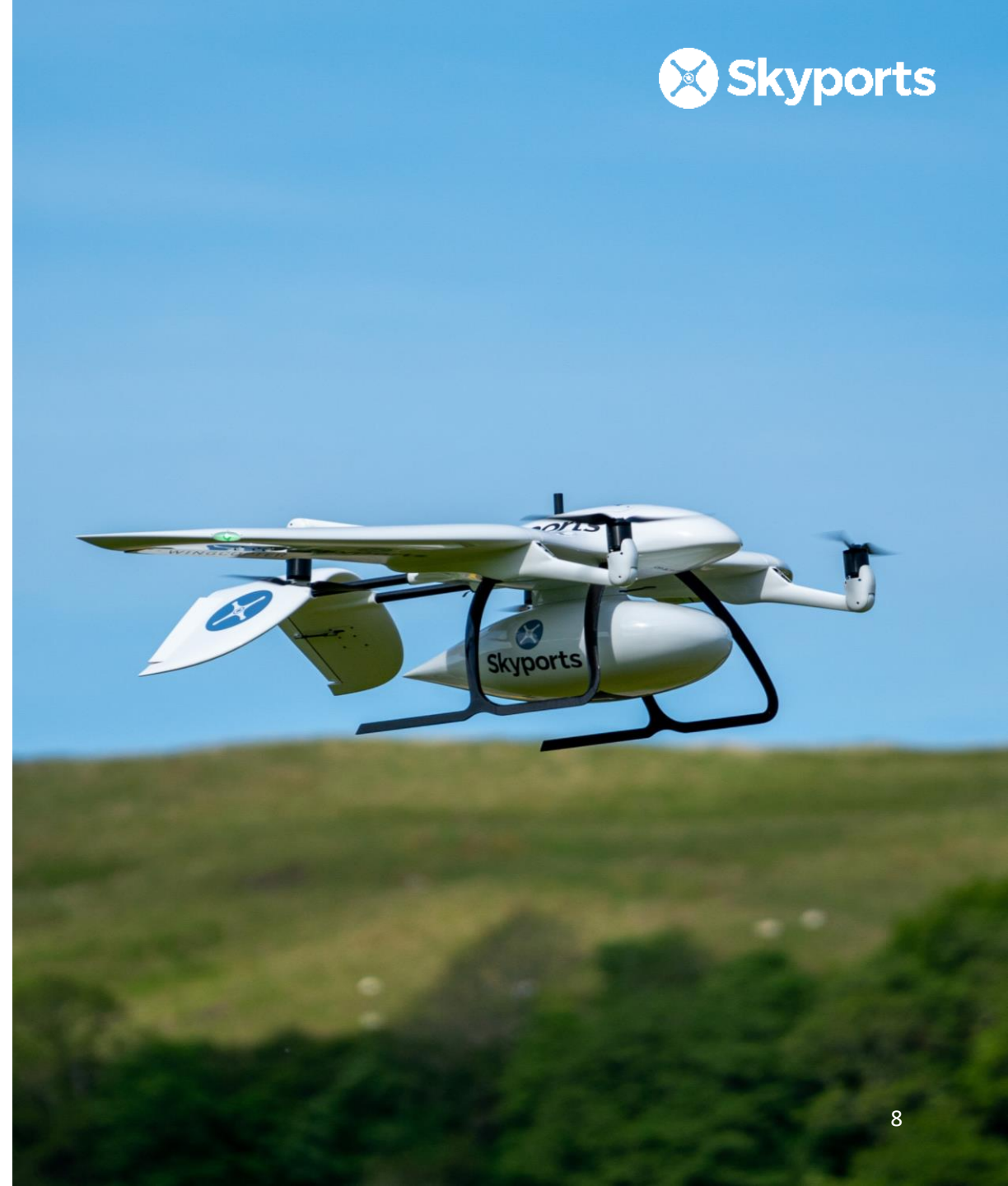
- A successful trial has the potential to be the blue-print for a reliable and scalable medical drone delivery service

Stakeholders:

- Effects on local stakeholders may be minimised through airspace construction as a result of knowledge use and issues raised during the recent informal targeted aviation stakeholder engagement exercise completed for ACP-2020-038

Deconfliction:

- Skyports will have in place a robust process of airspace deconfliction to minimise impact on other airspace users





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