

ÉALÚ-AER: Enhanced Automation for U-Space/ATM integration

Dr. Wassim Derguech, FMCI (Project Coordinator)

Supporting drone strategy 2.0: results from U-space digital sky demonstrators
23-24 October 2025 – Eurocontrol HQ, Brussels, Belgium



Collins Aerospace
An RTX Business



deepblue



MANNA

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IRELAND



Co-funded by
the European Union

Our Consortium



ÉALÚ-AER Consortium

ÉALÚ-AER



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the European Union

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Infrastructure



ANSP



U-space Services



Drone Operator

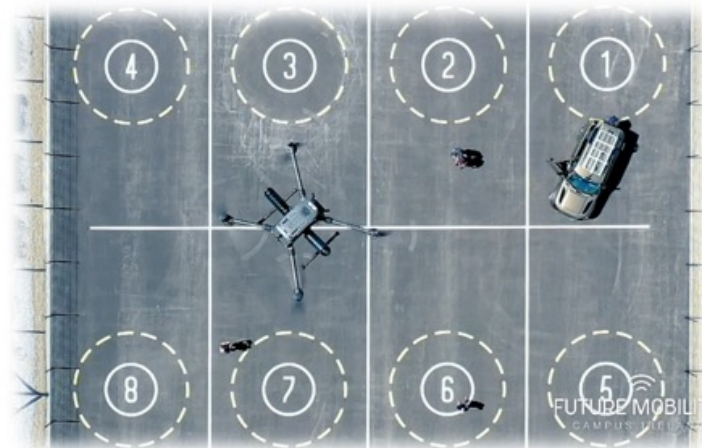
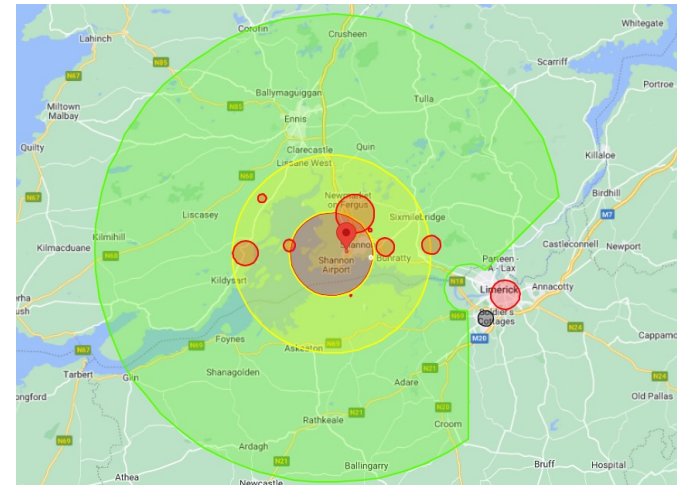


ÉALÚ-AER Kick-Off – Nov 2022



ÉALÚ-AER location

ÉALÚ-AER

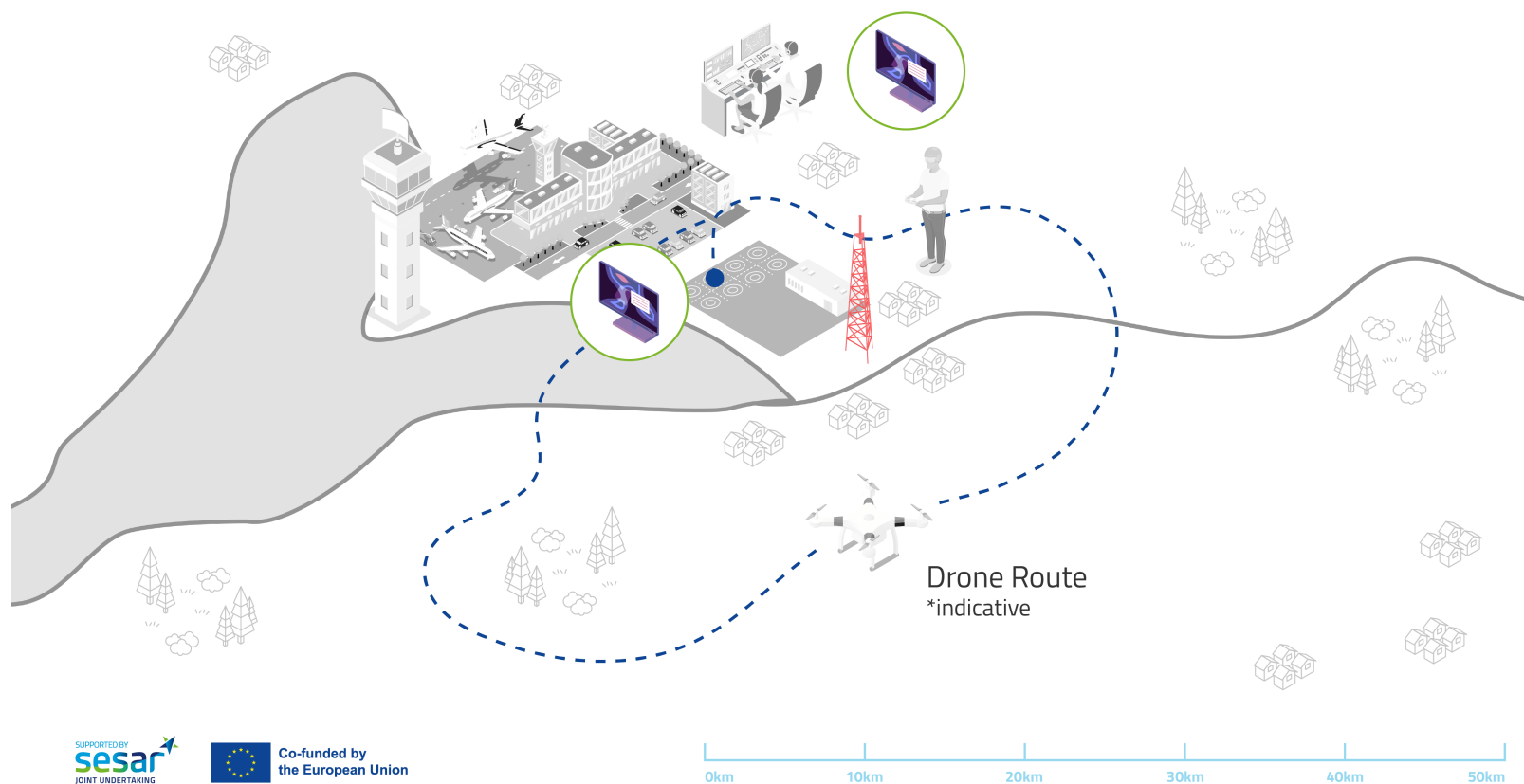


Ireland's First Vertiport – Home for ÉALÚ-AER



ÉALÚ-AER

BVLOS Operations within Class-C airspace with regulatory U-space services



CONCEPTS AND ENABLING TECHNOLOGIES



Shannon Airport



FMCI Vertiport



**ATC
Tower**



**ARINC
Global
Network**



**DJI MATRICE
300RTK**



USSP+CISP
Collins Airspace
Services



**FMCI
Control Centre**



**Remote Pilot
/ Visual Observer
/ Extended
VLOS Spotter**

ÉALÚ-AER

AESA X-Band radar as a surveillance enabler

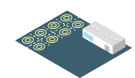


Drone Route
*indicative

CONCEPTS AND ENABLING TECHNOLOGIES



Shannon Airport



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ATC
Tower



ARINC
Global
Network



DJI MATRICE
300RTK



MANNA



Long distance
eVTOL



USSP+CISP
Collins Airspace Services



FMCI
Control Centre



Remote Pilot
/ Visual Observer
/ Extended
VLOS Spotter



CNPC5000
C2 Data
link radio

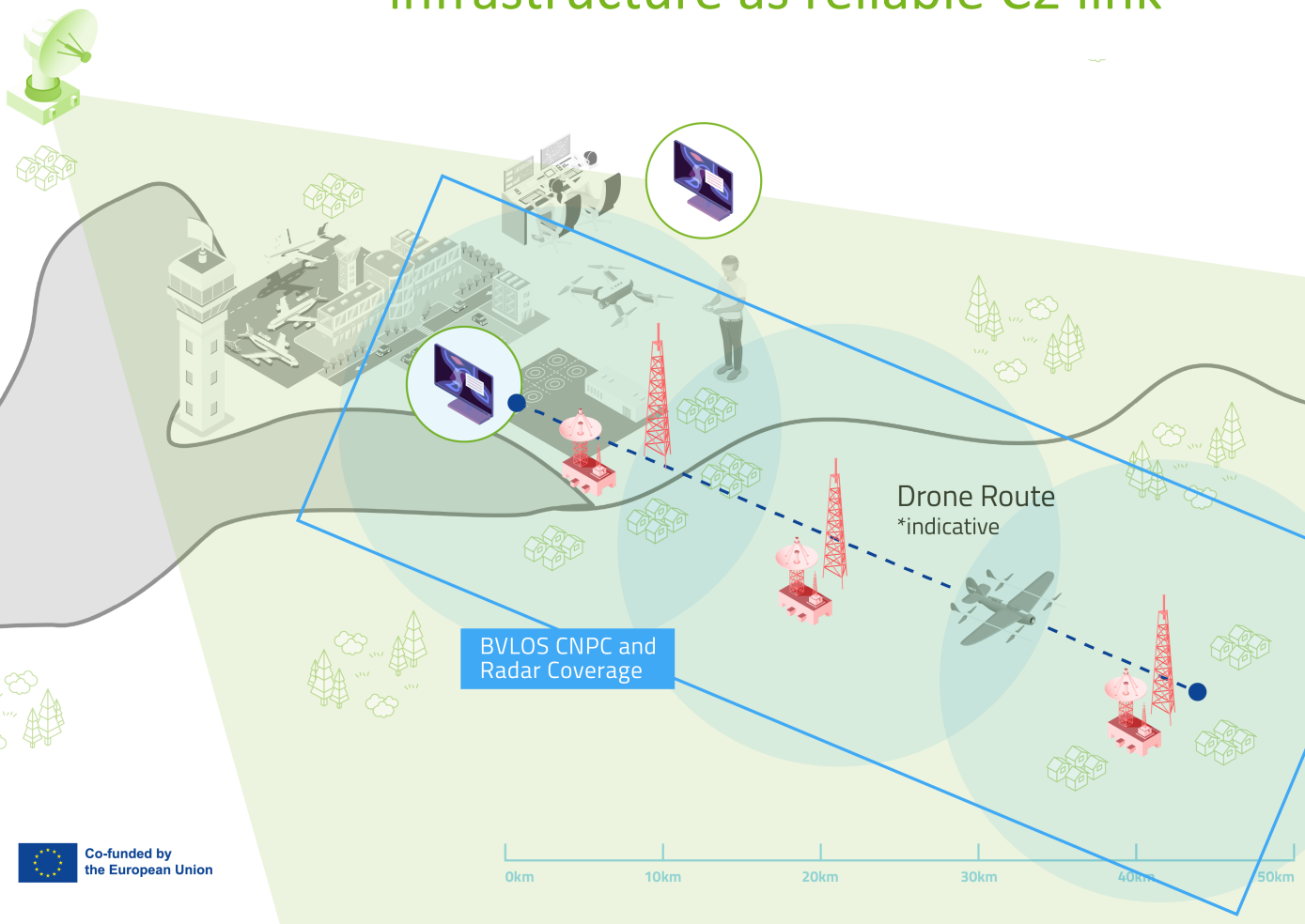


Skyler:
Low-power
X-band
Surveillance
AESA Radar



ÉALÚ-AER

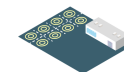
Modular and scalable CNPC radio infrastructure as reliable C2 link



CONCEPTS AND ENABLING TECHNOLOGIES



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MANNA



Long distance eVTOL



USSP+CISP
Collins Aerospace Services



FMCI Control Centre



Remote Pilot / Visual Observer / Extended VLOS Spotter



CNPC5000
C2 Data link radio



Skyler:
Low-power X-band Surveillance AESA Radar

WHAT
NEXT?

Shannon Airport Eyeing Up Advanced Aerial Mobility Research Lab

29 MAY 2025



"It's understood the facility would be operated in conjunction with the Shannon based Future Mobility Campus Ireland, whose name and logo appears on the computer generated images of the proposed building in planning documents."



**FMCI IS SET TO OPEN
IRELAND'S FIRST
VERTIPORT IN**

2026



Who You can Meet Here?



Wassim Derguech



Javier Camacho



Ray Foley



Stefano Rivero



Cathal MacCriostail



Denis Doyle



Anshika Gupta



Co-funded by
the European Union