

ARCTIC DRONE LABS

Finnish Drone Expertise

City of Oulu

N65° E025°

Elevation 0+m

Road distances:

Helsinki 600 km

Arctic Circle 200 km

Sweden 150 km



Nationwide network of Universities, Research Organisations and Economic Development Agencies



Network of drone industry companies

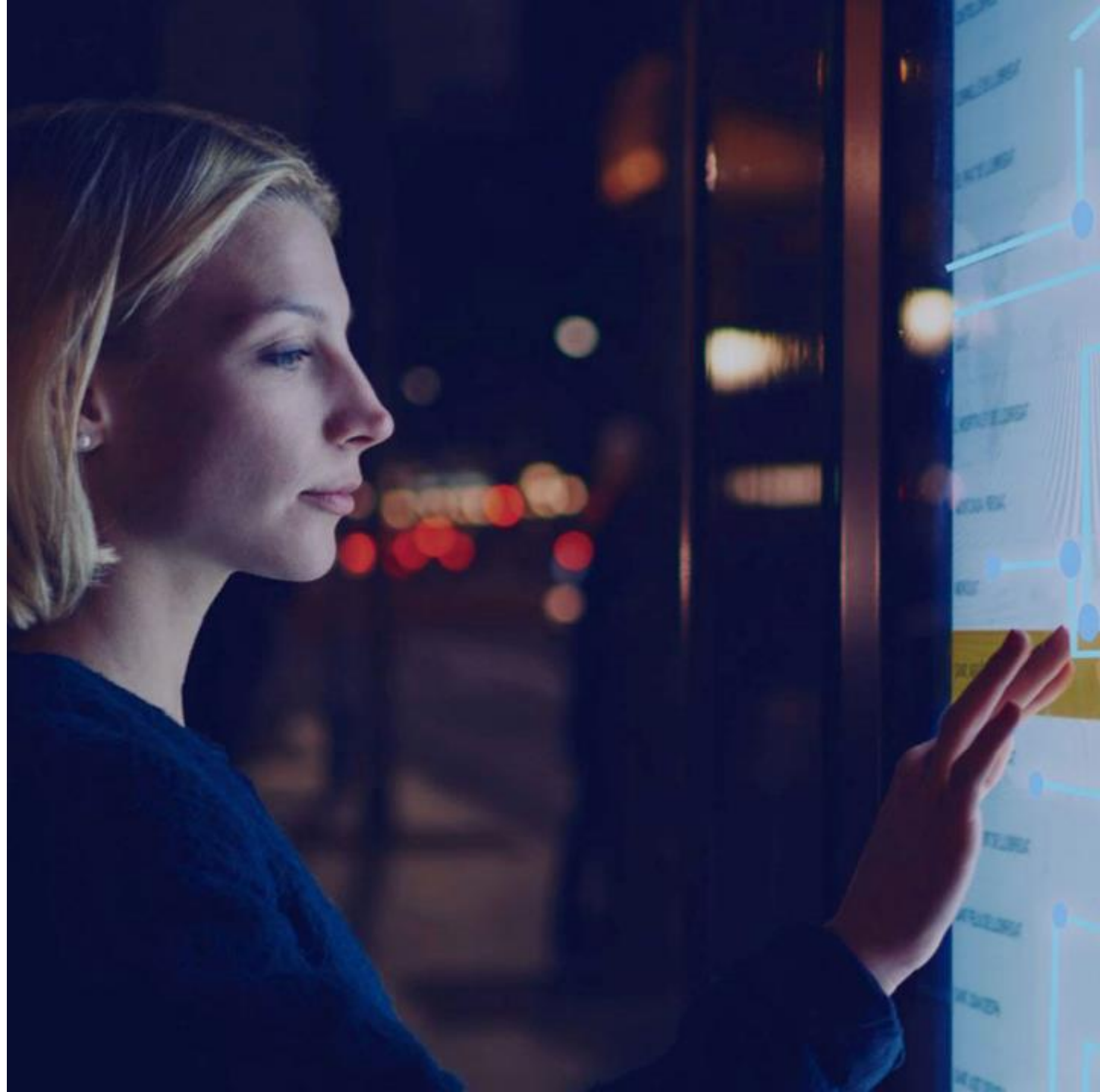
- Aeromon
- Anarky Labs Oy
- Arbonaut
- Brighthouse Intelligence
- DMB Consulting Ky
- Dronekeskus Oy
- Finland UAS Centre
- Fotohovi Oy
- Fly-by Guys Oy
- Goodform Oy / LIFT
- IBM
- Kelluu Oy
- Lentoi Films Oy
- Nokia Oyj
- Oulun ilmakehuvaus
- Radientum
- RedstoneAero
- Robots Expert Finland Oy
- Royal locus
- SK Drones Oy
- Sky High Pictures Oy
- Supermikko Oy
- Testilabs Oy
- Verkotan Oy
- VideoDrone Finland Oy
- XR Nation

Accredited by EC

- [Digital Innovation Hub](#) (DIH)
- [ATI Centre](#) (Advanced Technologies for Industries)

Memberships:

- Finnish UAV Ecosystem (FUAVE)
- Rethinking Autonomy and Safety Ecosystem (RAAS)
- Allied ICT Finland Network
- Association of Remotely Piloted Aircraft Systems (RPAS Finland)
- Association of Finnish Defence and Aerospace Industries (AFDA)



Coordinator team



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SERVICES

Consultation

Access to technology expertise and facilities

Proof of concepts / Lab testing

Prototype development and testing

Demonstrations

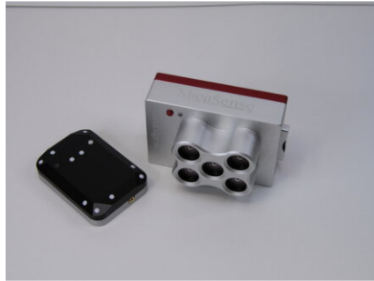
Information & Networking



FACILITIES

Fleet & FUAVE Test Areas in several locations

Fleet & Payload accessories



Parrot Anafi

MicaSense RedEdge

DJI X7

DJI M600 Pro

DJI Matrice 210 RTK V2

DJI X5S



Vector X9

DJI Mavic 2 Pro Zoom
Camera

DJI Z30

DJI Mavic 2 Pro

Senop Hyperspectral
VNIR camera

DJI Mavic 2 Pro
Enterprise Dual

FUAVE Test Areas

FUAVE test areas act as Living Lab environment for urban and rural UAS applications:

- Oulu – Linnanmaa (Urban 01)
- Helsinki – Jätkäsaari (Urban 02)
- OuluZone – Oulu (Rural 01)
- Pyhtää - Helsinki East Aerodrome (Rural 02)
- Kemijärvi Airport (EFKM) (Rural 03)
- Sjökulla test field, Kirkkonummi (Rural 04)

In cooperation with FGI, VTT, Uni of Oulu, Xamk
R&D initiative funded by the Academy of Finland



Linnanmaa campus area, Oulu. Photo Tuomo Hänninen, Uni of Oulu

UAS application examples

- Drone swarm trials
- Environment monitoring (algae, oil leaks, air quality etc.)
- Forest fire monitoring
- Logistical pilots
- Utility/Industrial inspections
- Energy efficiency (IR) monitoring
- Flying in densely populated area
- Agricultural chemical spraying
- Disinfection treatment
- 3D (i.e. LIDAR) scanning of built environment
- Supervision/security (tracking people, vehicles etc.)



Kemijärvi airport (EFKM). Photo Christian Gummerus, Dronekeskus Oy.

FUAVE Test Area Oulu - Linnanmaa

D-Areas
Z0... Z9

Alt levels
1. 0-500m
2. 0-120m

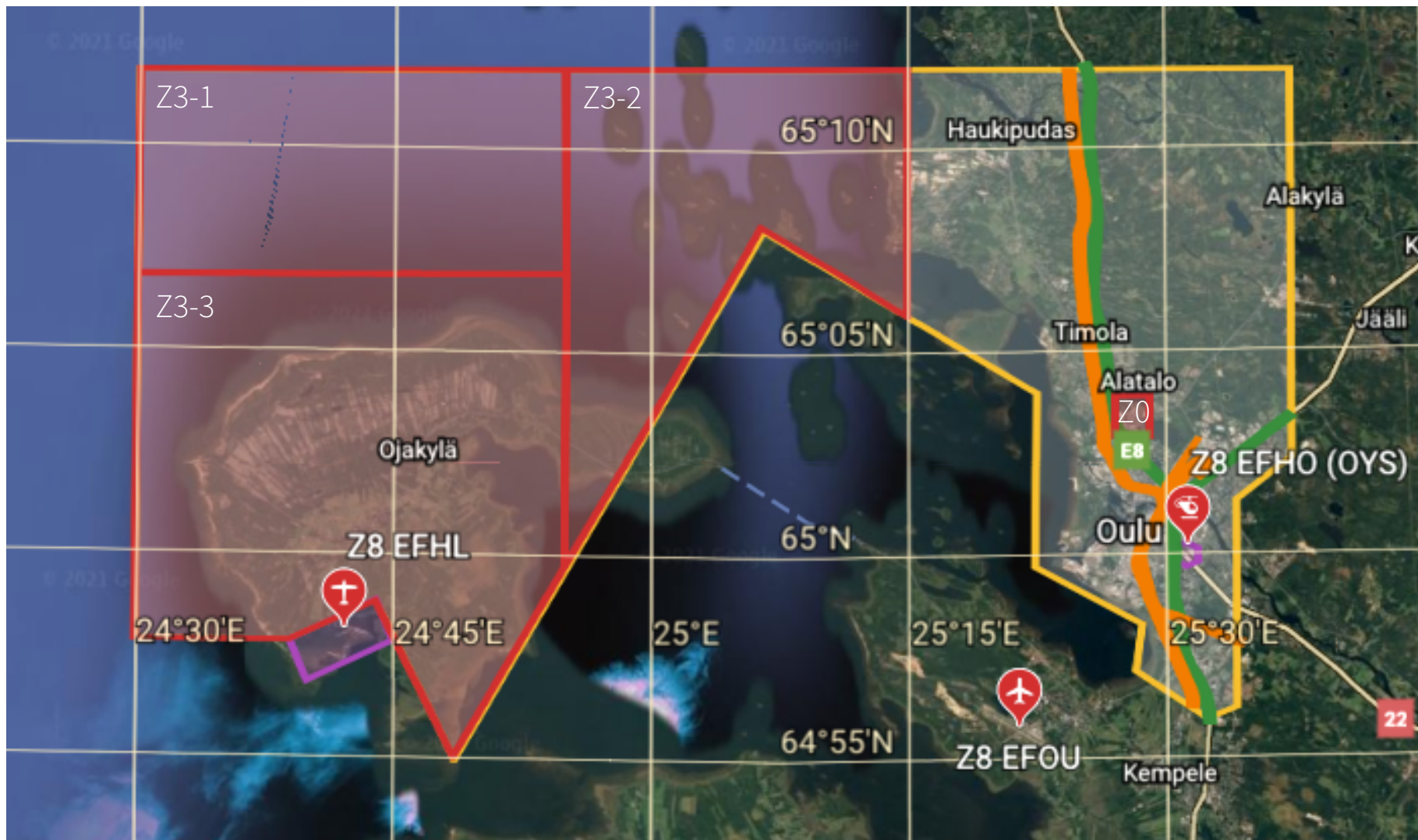
Airfields
EFOU
EFHL

Helipads
EFHO (OYS)

HQ (Z0)
Linnanmaa

Operator
Oamk / ADL

Partners
Uni of Oulu
VTT
FGI
Xamk



Cooperation models

- Free ecosystem membership
- Open access to the test areas
- Partnership agreement
- Access to facilities and services
- Training by request
- Joint R&D projects
- Networking events



Jätkäsaari test area, Helsinki. City of Helsinki Media Bank / Julius Konttinen.



More information

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Thank you!
Kiitos!
Tack!