

* Facilities in OAMK (Erkki Nuottila/OAMK)

EMETA Drone operation at Oamk, EMETA project, Erkki Nuottila

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www.arcticdronelabs.com

Oamkin drone operations

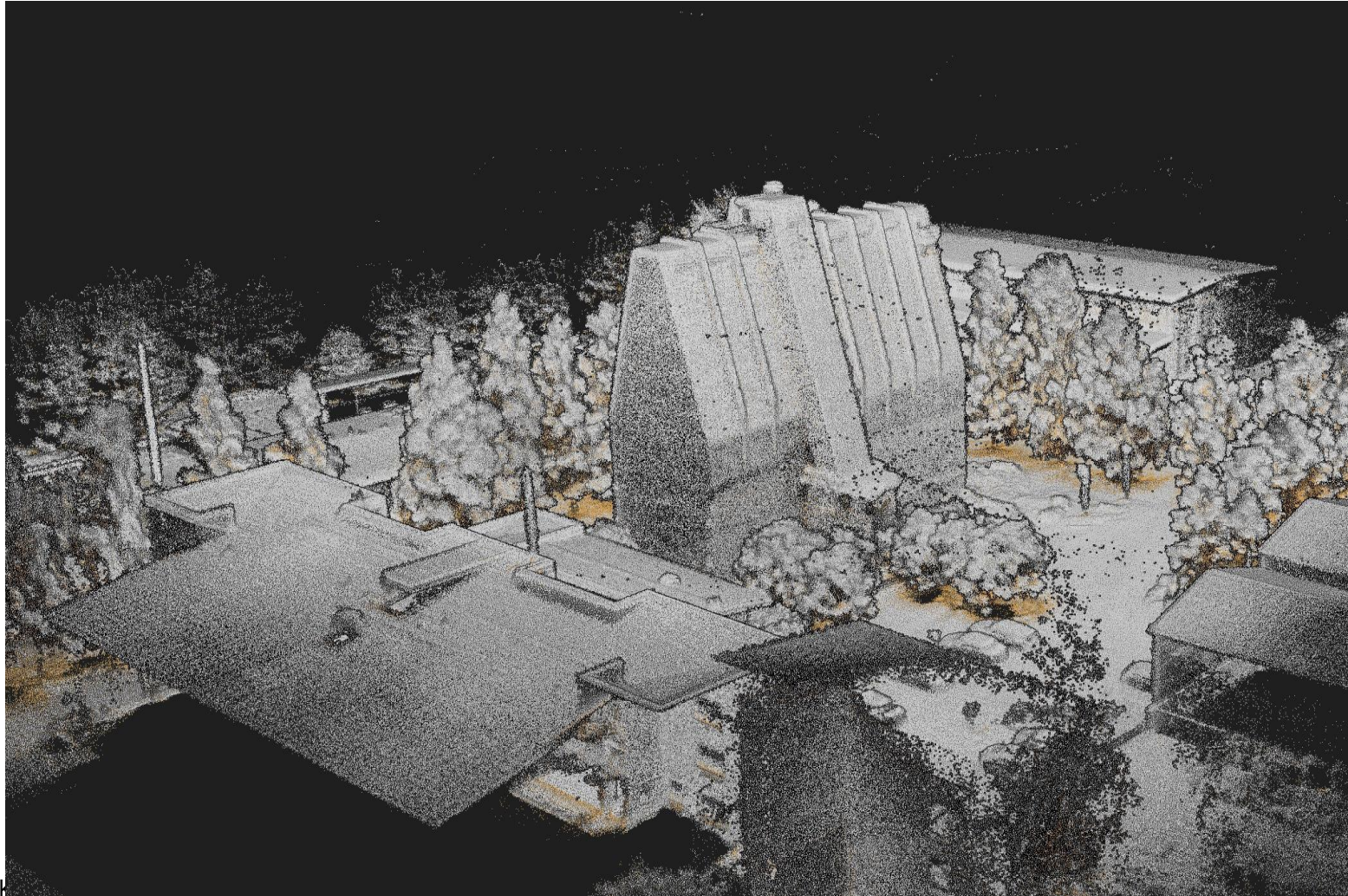
Oamk drone team (Arctic Drone Labs) is appreciated and valued partner in arctic drone and drone operations in exploring, mapping, educating and enabling business in different industries.



Arctic drone labs functions

- Explore drone related technologies and application areas for a variety of industries
- Provide applied research results and services and education for Companies
- Develop controlled test areas and infra for drone operations
- Provide education of drone operations and technologies

Example Lidar scanning raw data

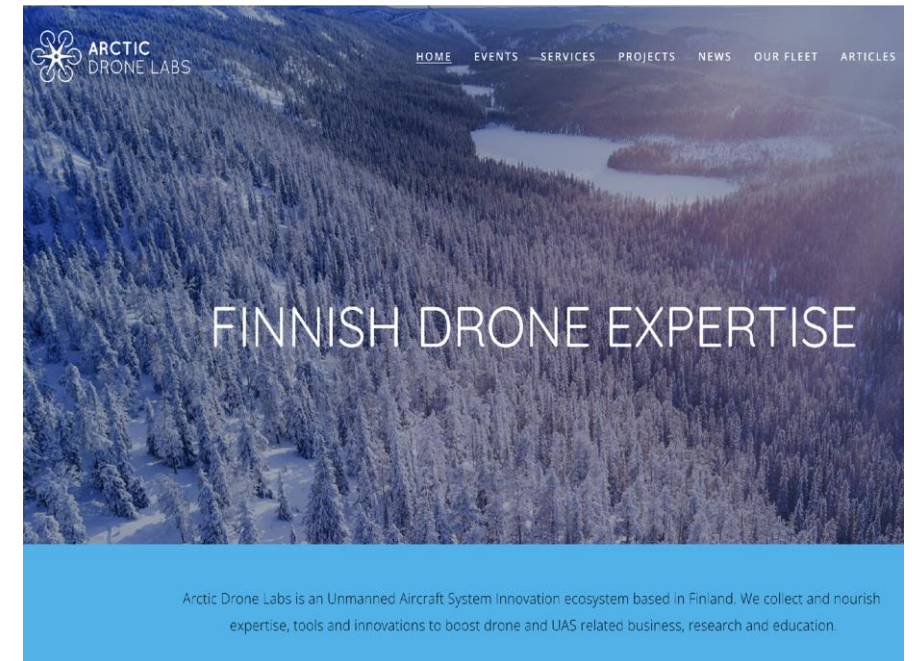


Current research topics

Operations

- Flying beyond visual line of sight (BVLOS)
- Swarm operations
- Automation ja autonomy
- Agriculture applications (remote sensing, spraying of ..)
- Drones as part of logistics (goods)
- Drones as a part of transportation (people)
- Data collection and analysis
- Cyber security

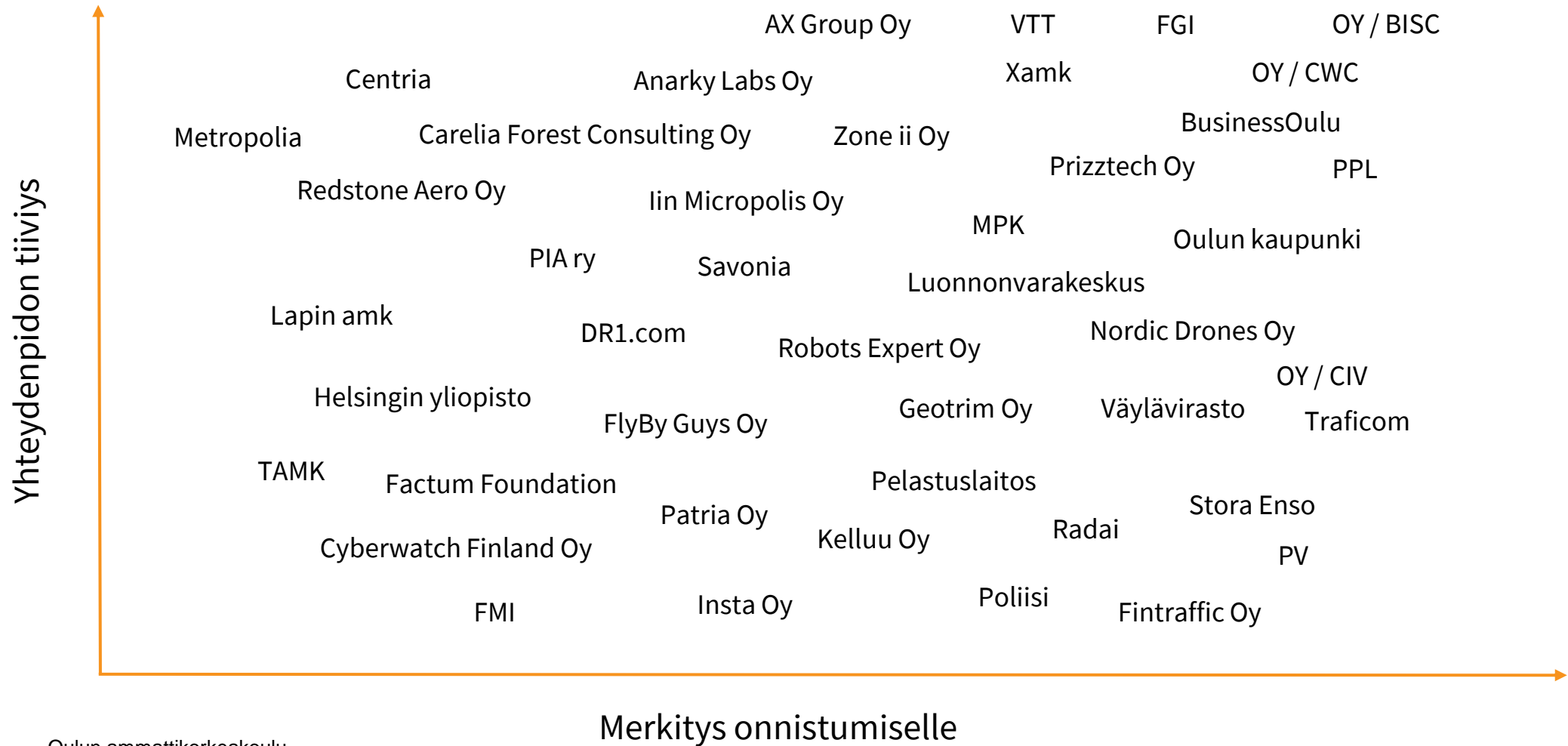
8 projects ongoing



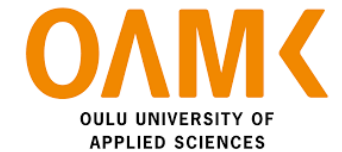
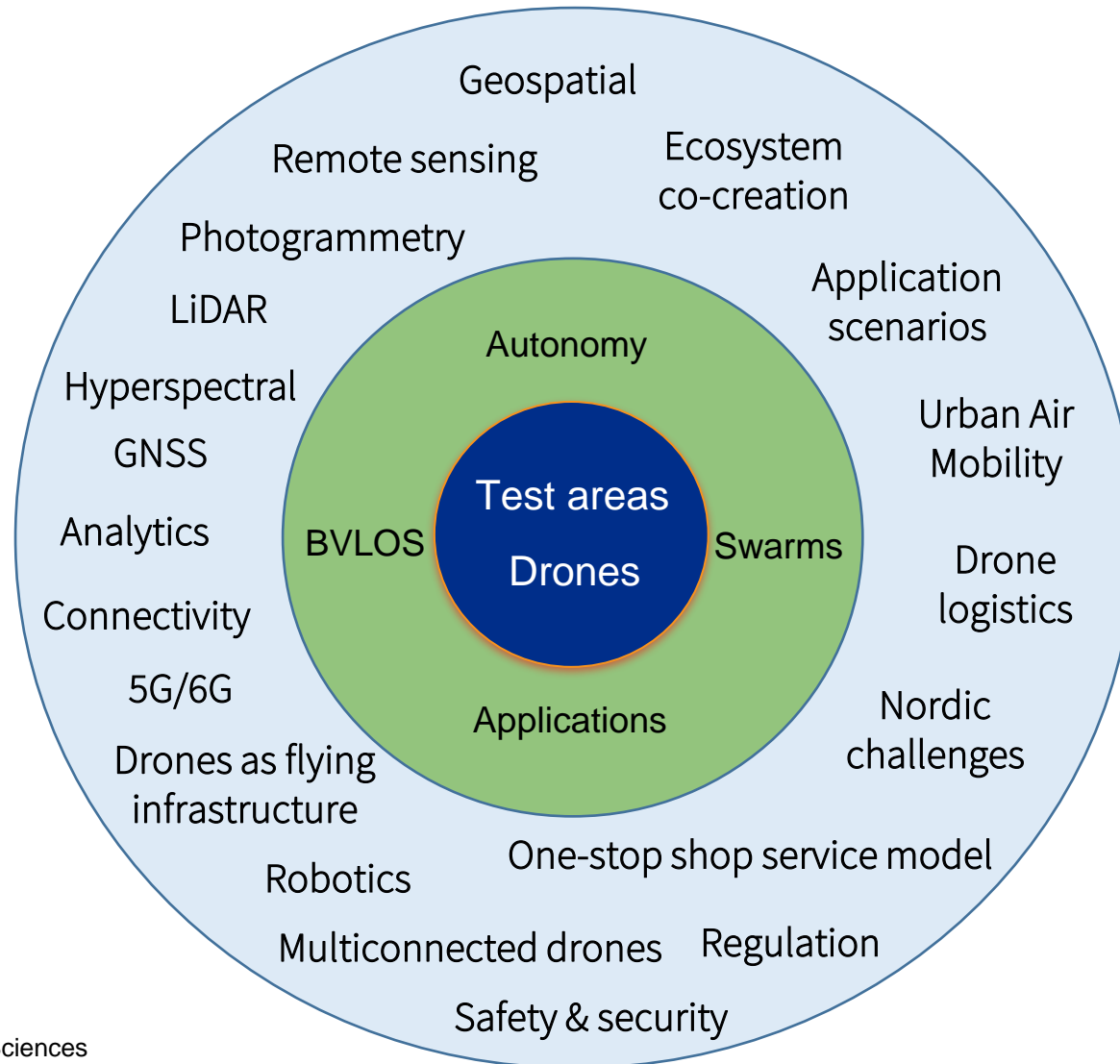
EMETA project toiminta ja Oamk Arctic drone labs – Metaverse ja Digital Twin (DT)

- Creating VR models utilizing drones and sensors
- Updating and complementing models
 - Geo referencing
 - Photo grammetry
- Providing near real time sensor data to different Digital Twin (DT) models and Augmented reality (AR)
- Building Metaverse test platform (2024-2025)
 - Common usage
- Building and utilizing block chain technologies for AR/VR platforms
 - Identification
 - tracability
 - sharing
 - payment

Partner network



Work split amongst our partners



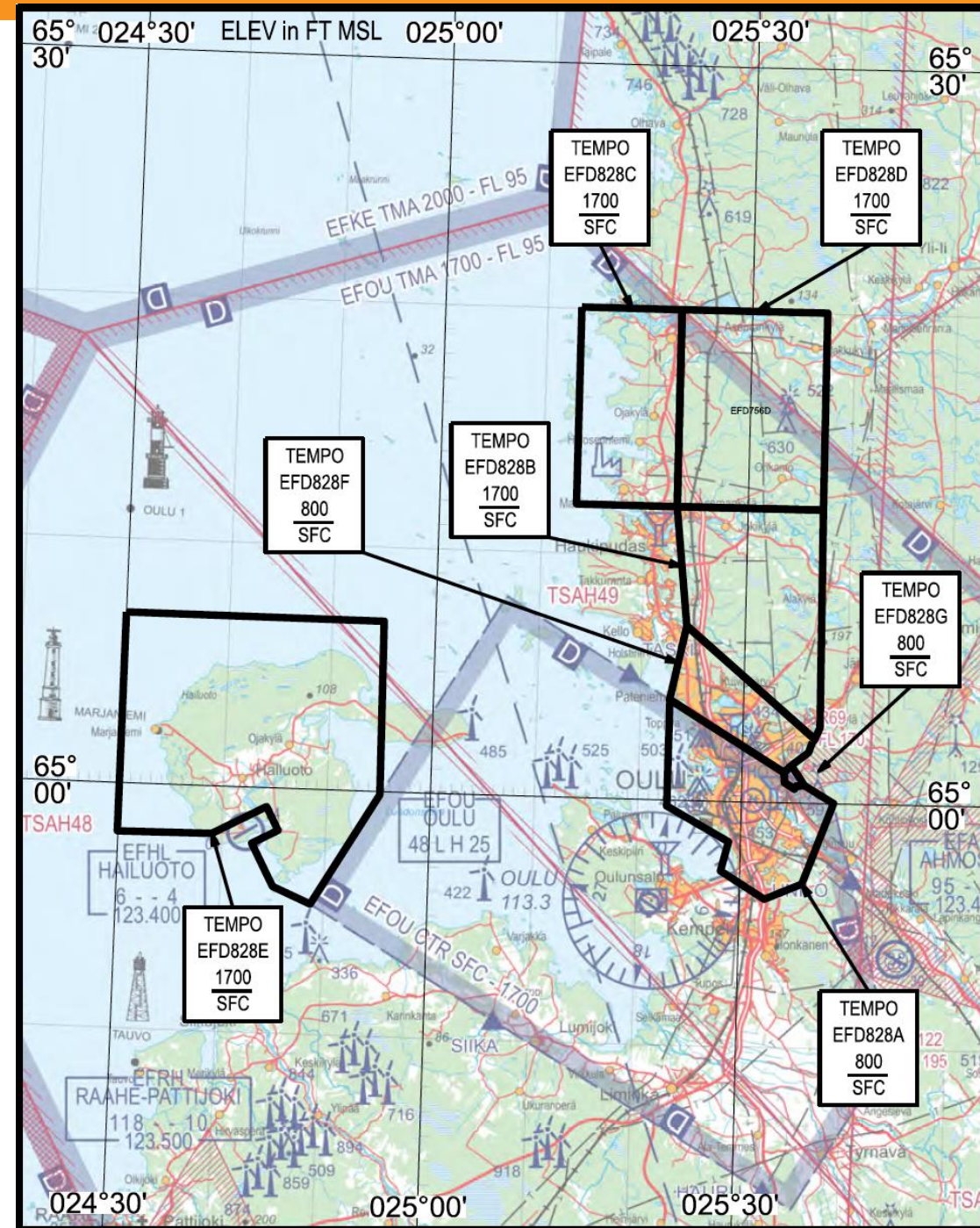
Our European research networks

Arctic Drone Labs on vahva verkostoituja, jäsenyyksiä, mm:

- EU:n akkreditoima DIH (Digital Innovation Hub) - vetovastuu
- EU:n akkreditoima ATI-keskus (Advanced Technologies for Industry)
- Robocoast EDIH (European Digital Innovation Hub)
- Location Innovation Hub LIH EDIH (European Digital Innovation Hub)
- FUAVE – Finnish UAV Ecosystem – droonitoimijoiden yhteisö
- RPAS Finland ry – droonitoimialan kansallinen etujärjestö
- Urban Air Mobility Oulu – Oulussa toimivien droonitutkijoiden verkosto
- Puolustus- ja Ilmailuteollisuus PIA ry
- AgriHubi - Maatalouden osaamisverkosto

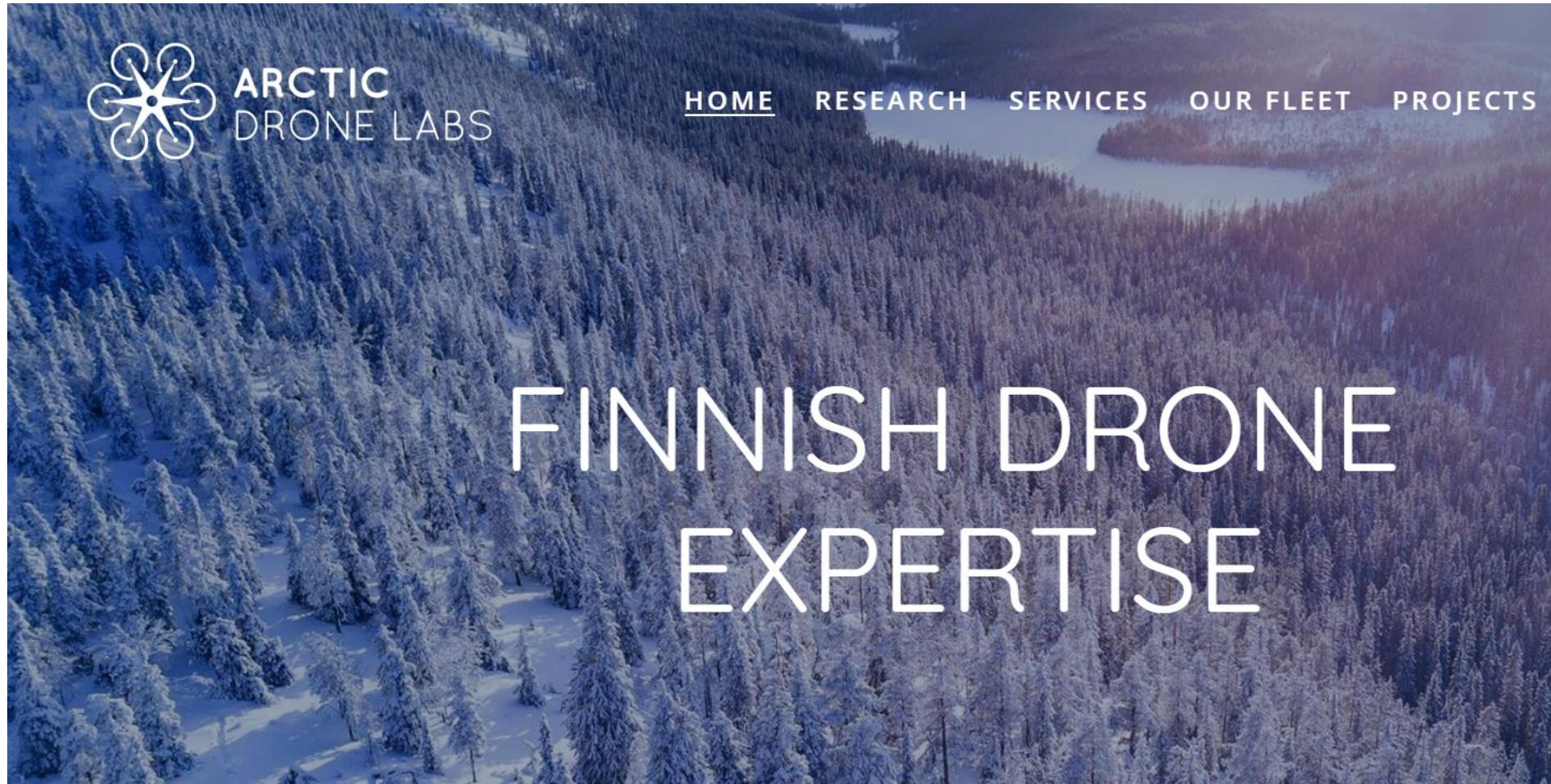
Arctic drone labs

Test areas



For further information

- [Arctic Drone Labs](http://www.arcticdronelabs.com), www.arcticdronelabs.com



OAMK

OULUN AMMATTIKORKEAKOULU