

A coastal scene with many sea birds on rocks and flying in the sky. The birds are scattered across the rocky shore and in flight against a cloudy sky. The water is calm and greyish-blue.

# Small RPAS in Oil Spill Response of Contaminated Sea Bird Rescue

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*Kuva: Lasse Kurvinen/Metsähallitus*

# Parks&Wildlife in Oil Spill Response



- Agile small boats and equipment
- Skilled skippers and crew
- Local knowledge
  
- Surveillance
- Transport of WWF volunteers and equipment
- Search and transport of contaminated sea birds
- Placing the bolts for the oil booms in outer archipelago



Parks & Wildlife staff participating in WWF voluntary oil spill rehearsal in Archipelago Sea



Kuva: Heidi Arponen/Metsähallitus



PREDICT 2016: WWF bird rescue team searching for targets in Vallisaari



*Kuva: Ari Laine/Metsähallitus*



PREDICT 2016: Parks & Wildlife boat team transporting WWF volunteers, bird boxes and equipment



Kuva: Heidi Arponen/Metsähallitus

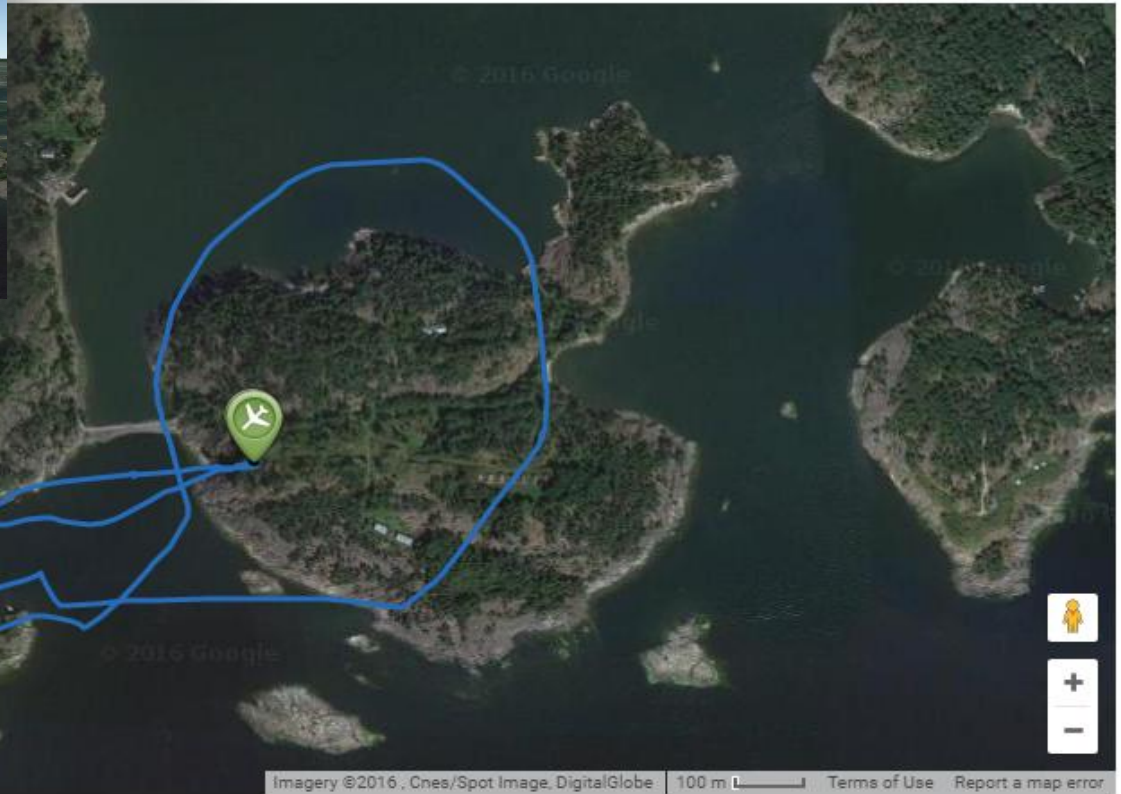
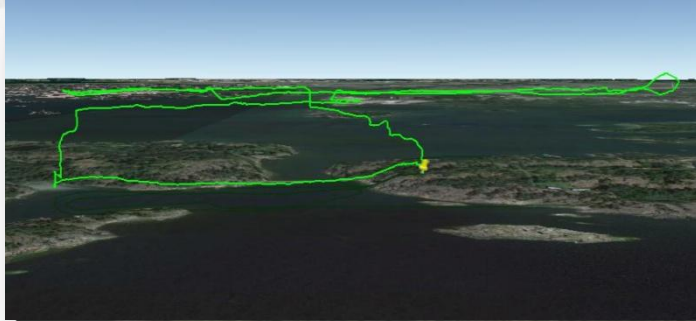






Kuva: Metsähallitus

# PREDICT 2016 Vallisaari & Kuninkaansaari





# Pros, Cons and Solutions

- + Agile, lightweight, easy to transport
- + Small to mid-range cover
- + Saves bird rescue team's effort

- Insufficient flight range (VLOS 500m) and time
- Obstructions restrict access to shores, small bays etc.
- Flight restriction areas (e.g. military areas)

- Pre-planning (BORIS, sea charts, topology maps etc.)
- Enhanced communication with operational centre
- Real-time video updates
- Faster access with boat



# Pilot positioning -on land or at sea?





# Flight altitude 100 m

Impossible to find target birds from the shore!



Kuva: Metsänhallitus

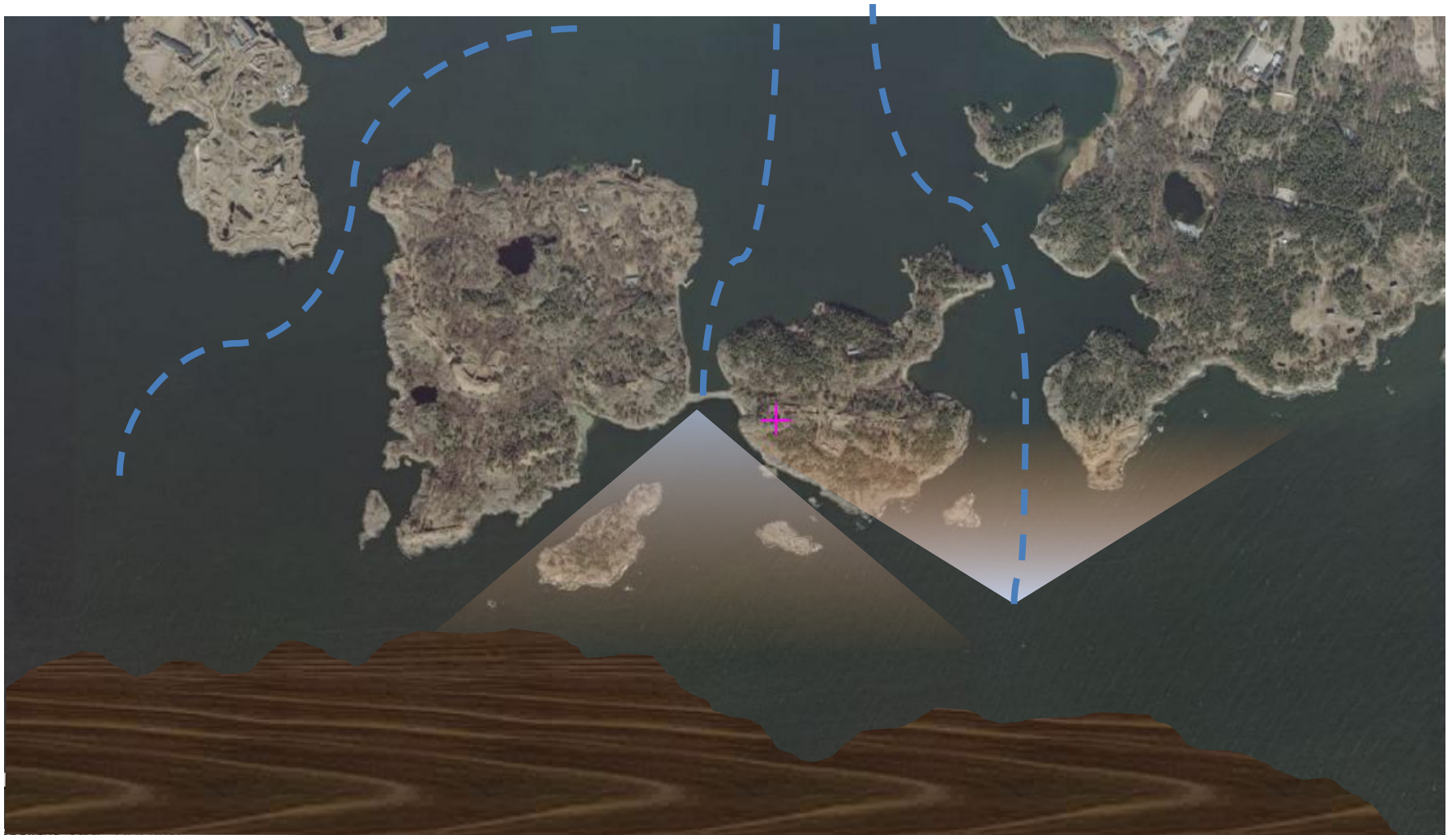


# Flight altitude 30 m





# Choosing the home point is important







Small RPAS has proven a useful tool in scouting hard-to-reach shallow mosaic shore areas!







Thank You!