

THRUST – DRONES + AI SYSTEM FOR HIGH QUALITY DATA GATHERING AT A LARGE SCALE

COMPANY PRESENTATION

HORIZON EUROPE MATCHMAKING EVENT

2022-01-24

A START-UP DEVELOPING FIXED-WING UAV PLATFORM AND ITS INTEGRATION WITH ADVANCED ANALYTICS

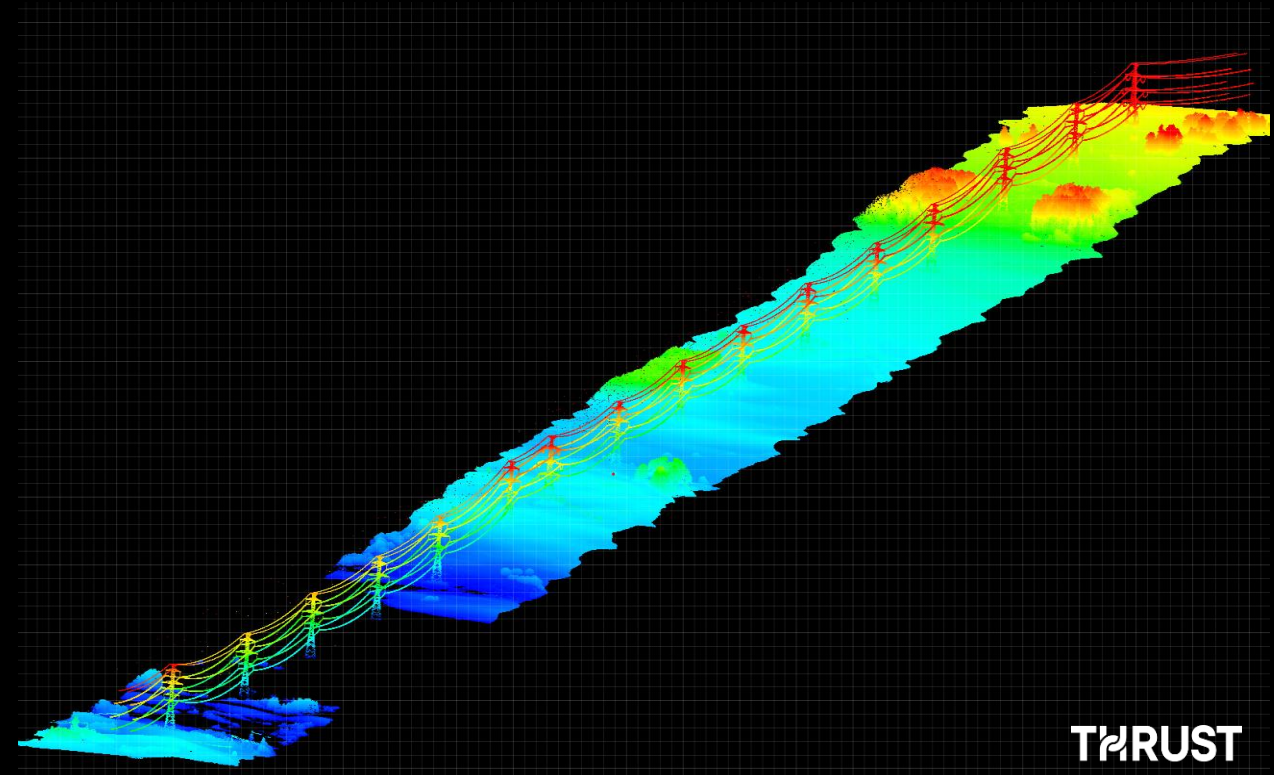
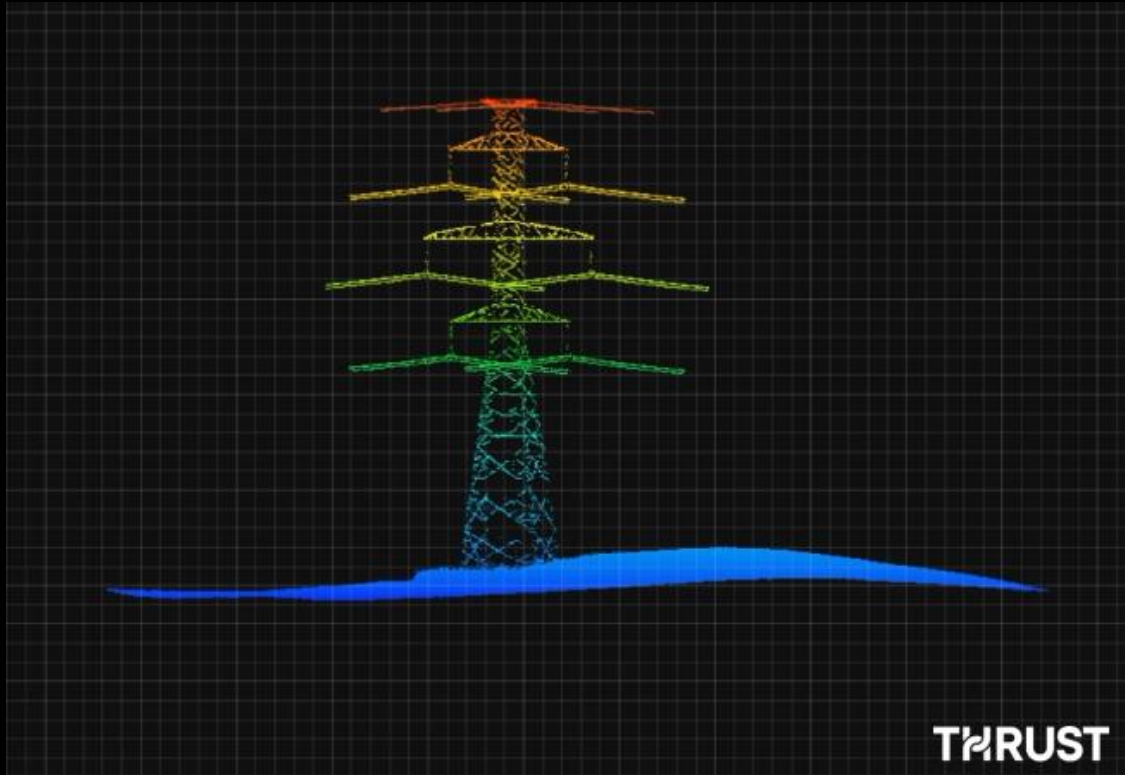
OUR SOLUTION:

AUTOMATED DIAGNOSTICS PERFORMED WITH CUTTING-EDGE UAVs

- **COMBINATION OF SENSORS**, INCL. LIDAR (25 KG MTOW* / 8 KG PAYLOAD)
- SLOWEST FIXED-WING UAV IN THE MARKET (CRUISE AT 43 KM/H FOR HIGH QUALITY DATA)
- FAST WHEN NEEDED (MAX SPEED OF 120 KM/H CAN BE USED TO REACH THE INSPECTION SITE)
- LONG RANGE (UP TO 300 KM IN ONE MISSION)
- GREEN (FUEL CONSUMPTION OF 0,35 L/H)



*MTOW - Maximum take off weight



For electricity transmission grid, LiDAR data is used to calculate curvature of the cable (catenary) to assess the safety (the cables contract and expand due to temperature, cables that hang too low can cause outages and even fatal incidents). Other uses include: identifying dangerous vegetation, unauthorized industrial activities and high-risk objects, measuring geometric deviations, modeling temperature-dependent behavior.



COMPETENCES

OUR COMPANY BRINGS SKILLS IN UAV DEVELOPMENT, AI/ML SOFTWARE AS WELL AS IS READY TO PROVIDE DATA GATHERING SERVICES

1.

Unmanned aerial robotic system development and performance optimization for specific mission parameters (optionally with the training of drone operators and drone maintenance)

2.

AI-based analytics software development for specific purposes (detecting specific objects, automatically performing customized analytics)

3.

High quality data collection services with multisensory capabilities (LiDAR, RGB, IR, multispectral, etc.);

4.

Data collection and analysis using advanced AI/ML analytical tools and reporting the final results

5.

Our team brings together decades of experience in mechatronics, aviation, software development as well as data analytics, preparation of funding applications, business analytics, strategy and project management

WE ARE LOOKING TO JOIN CONSORTIUMS WHERE WE
CAN ADAPT OUR DRONE + AI SOLUTION TO NEW USE
CASES

OUR INDUSTRIES OF INTEREST: ENERGY, ROAD
INSPECTIONS, FORESTRY, ENVIRONMENTAL SECTOR,
AGRICULTURE AND OTHER (WE ARE ALWAYS OPEN TO
NEW IDEAS)



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