UBOTICA SPACE:AI

MESEO

Co-funded by the European Union

Extended CogniSat AI-based On-board Co-Processing Platform

KER 3

AI-assisted image assessment closer to the sensor.

AI-powered intelligence directly in space

The extended CogniSat platform brings AI processing capabilities directly on board satellites. By analysing imagery close to its source, it enables early identification of relevant information and supports more efficient use of onboard processing resources and downlink capacity.

THE CHALLENGE

Satellite imagery can include low-value observations that still consume downlink capacity and ground resources.

OUR SOLUTION

The CogniSat on-board co-processing capability runs AI inference on acquired imagery, supporting the identification and selection of useful observations before subsequent processing and downlink.

AI-assisted image assessment closer to the sensor.

WHY IT MATTERS

- **On-board AI**
- **Image selection**
- **Reduced transfer**
- **Reusable capability**

On-board processing • UBOTICA