SATLANTIS

MESEO

Co-funded by the European Union

On-board Payload Image Processing

KER 4

Generate more useful EO data before downlink.



Transforming satellite imagery before downlink

On-board payload processing enables satellite imagery to be processed directly where it is acquired. By generating higher-level image products in space, it reduces the need to transfer large volumes of raw data and supports more efficient image handling and delivery.

THE CHALLENGE

Traditional processing chains may depend on sending large raw image volumes to ground infrastructure.

OUR SOLUTION

Payload-side processing supports the generation of L1B image products on board, allowing selected observations to be processed closer to acquisition and reducing data volumes requiring transfer.

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WHY IT MATTERS

- **L1B products**
- **Payload processing**
- **Data efficiency**
- **Near-sensor work**

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