HIGHWAY
EO DATA SPACE

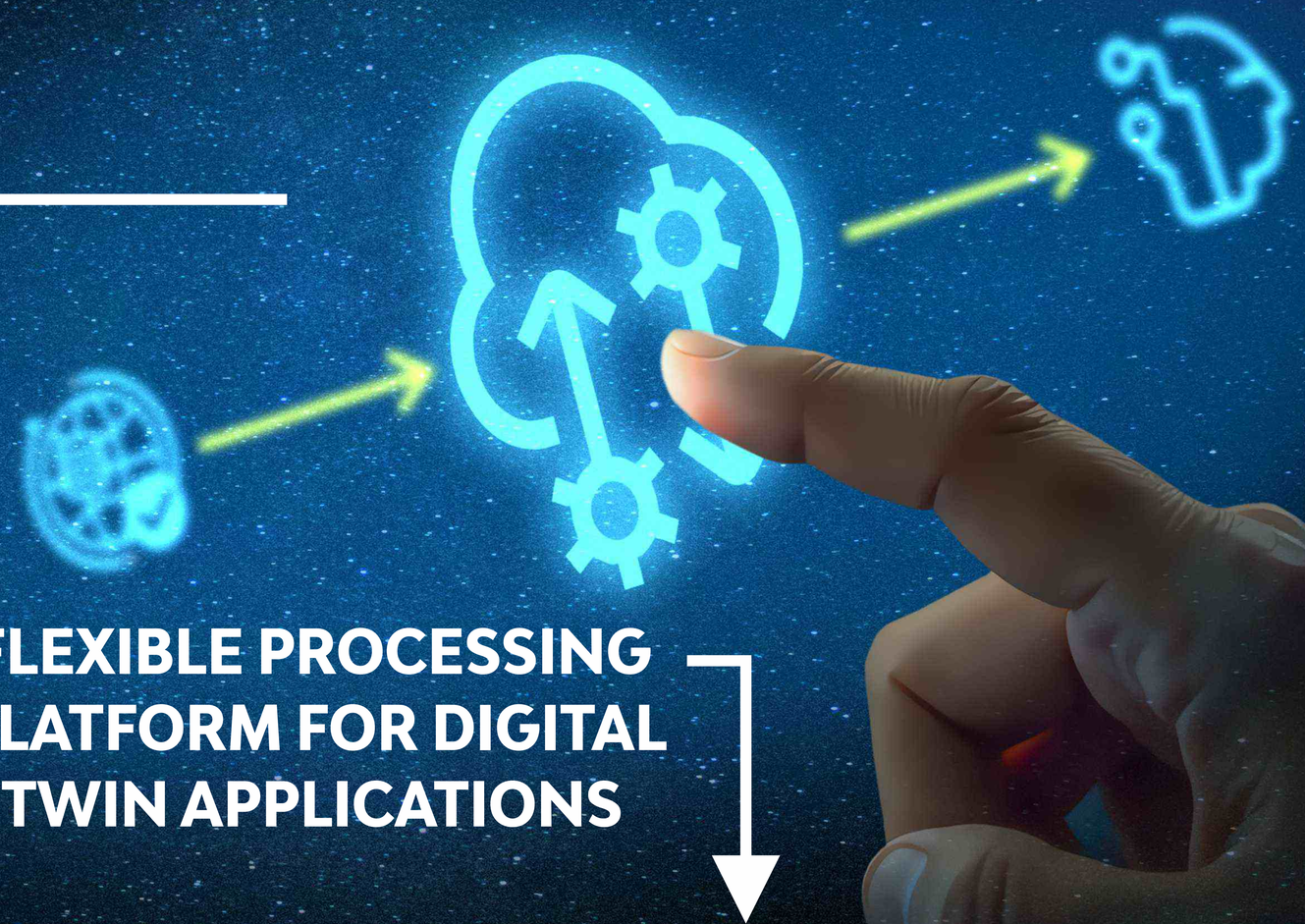
adwäisEO · ACRI ST · EARTHLAB LUXEMBOURG · MEEO

Scalable and Reliable Digital Twin Earth Data Processing based on MLOPs Approach

HIGHWAY provides a scalable data processing platform designed to support AI model development, operationalisation, and workflow orchestration. It enables the execution of complex Earth Observation tasks through high-performance, distributed processing, ensuring reliability and efficiency throughout the entire machine learning lifecycle.

1 DATA PROCESSING FEATURES

- End to End AI development & integration support
- Collaborative & Productivity toolkits
- Flexibility, extensibility and openness
- Innovative MLOPS Features
- Accountability, privacy and security by design
- Seamless Access to EO Data

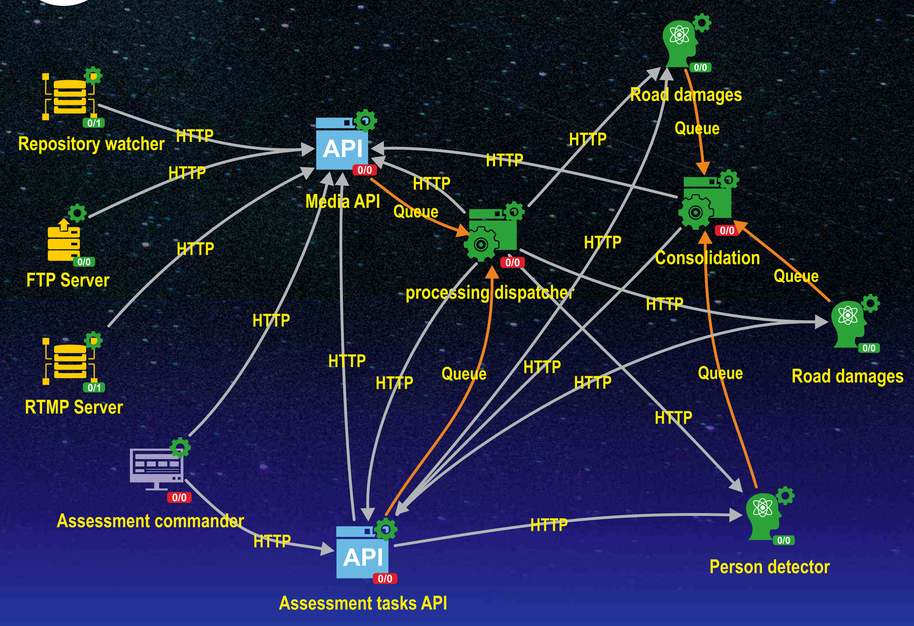


FLEXIBLE PROCESSING PLATFORM FOR DIGITAL TWIN APPLICATIONS

2 MLOPS : NOCODE BASED PROCESS

- A — EO Data ingestion and annotation
- B — Manage models using integrated zoo
- C — Train the model in chain
- D — Test the models in one click
- E — Operationalization of AI in a pipeline

3 SCALABALE AI OPERATIONALISATION



LIVING PLANET SYMPOSIUM

23—27 JUNE 2025
VIENNA, AUSTRIA

EOF ESA Earth Observation Framework

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