

Earth Intelligence powered by AI



Show me the Land Use Land cover over Italy for July 2024.

For July 2024, the Land Use Land Cover (LULC) over Italy, based on the Dynamic World dataset, is as follows (areas in km²):

- Trees: 285,185 km² (21.4%)
- Water: 749,316 km² (56.2%)
- Cropland: 139,003 km² (10.4%)
- Grassland: 20,882 km² (1.6%)
- Shrubland: 38,321 km² (2.9%)
- Built area: 38,846 km² (2.9%)
- Bare ground: 43,039 km² (3.2%)
- Snow and ice: 8,676 km² (0.7%)
- Flooded vegetation: 82 km² (negligible)

These values represent the proportion of each land cover class across Italy for the specified period. The data is derived from near real-time 10m resolution Sentinel-2 imagery, providing a detailed and up-to-date view of land cover. If you need a map or further breakdown, please specify!



Enter Prompt...

AOI

Imprint Data Protection

INFORMATION DEPTH

EO access alone is not enough. terrAIIntel turns EO data into interpretable and defensible outputs through:








- ✓ Maps
- ✓ Statistics
- ✓ provenance

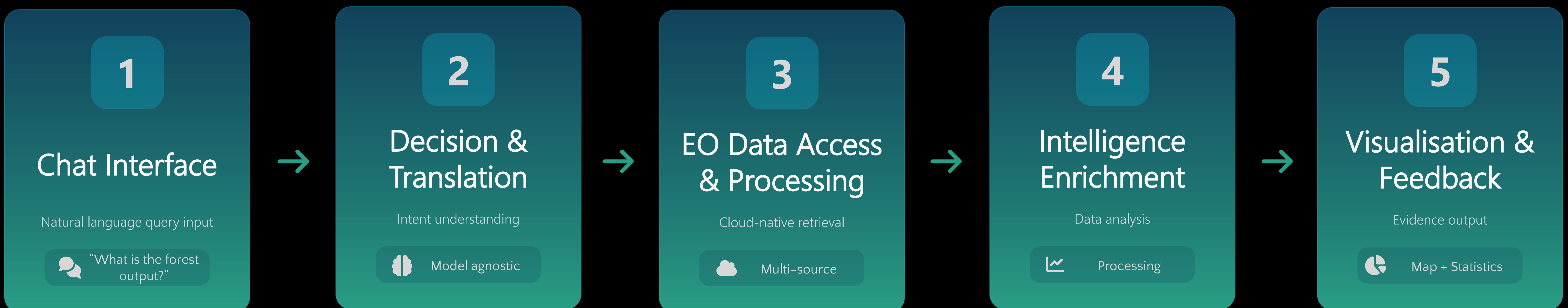
THE GAME CHANGER

- ✓ EO exploitation for non-experts
- ✓ Speed
- ✓ Low costs
- ✓ Solving fragmented access
- ✓ Transparency of sources


Geospatial answers for non-expert users in plain language, maps, chart-ready statistics, and provenance-backed explanations.

Integrated Thematic EO Assets


 Forests Hansen GFC Forest-loss drivers	 Water Flood Hazard Water Classification	 Urban GHSL HRSL Population	 Fires VIIRS Active Fire Detection	 Air & Soil Sentinel-5P SMAP MODIS LST	 Land use Dynamic World Sentinel-2 MAXAR	 Climate ERA5 NEX-GDDP-CMIP6
---	---	--	---	---	---	---



 **Unified EO Access Layer**
terrAIIntel connects multiple cloud-native EO environments through a single natural-language interface.

 **Google Earth Engine**
Analysis-ready EO access

 **AWS Open Data**
Open geospatial datasets

 **Microsoft Planetary Computer**
Cloud-hosted EO collections

Current Status

ESA InCubed funded demonstrator with end-to-end workflows, now entering scale up.



Donvan Grobler¹,

Markus Tretzmüller², David Hinterndorfer²

