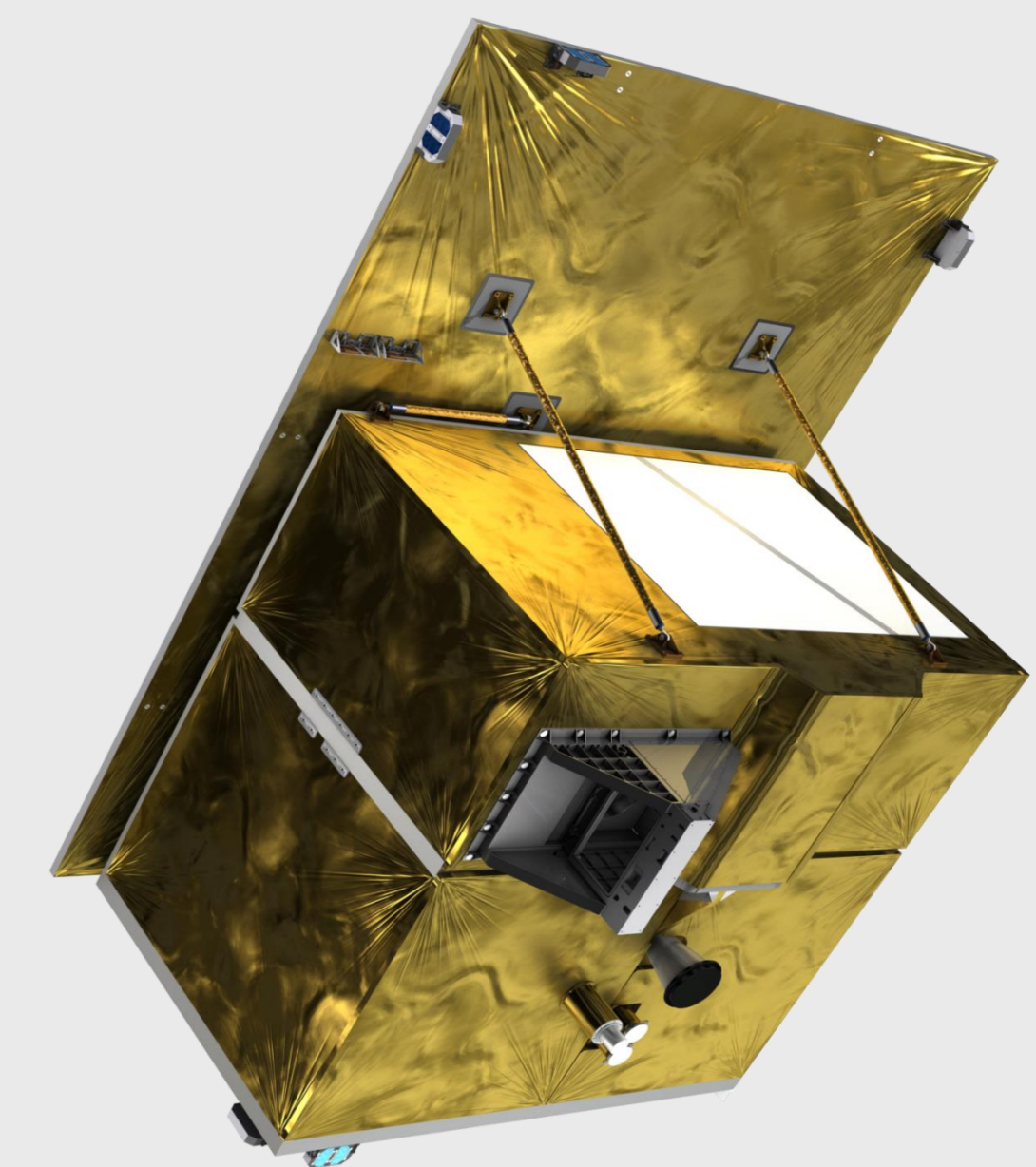
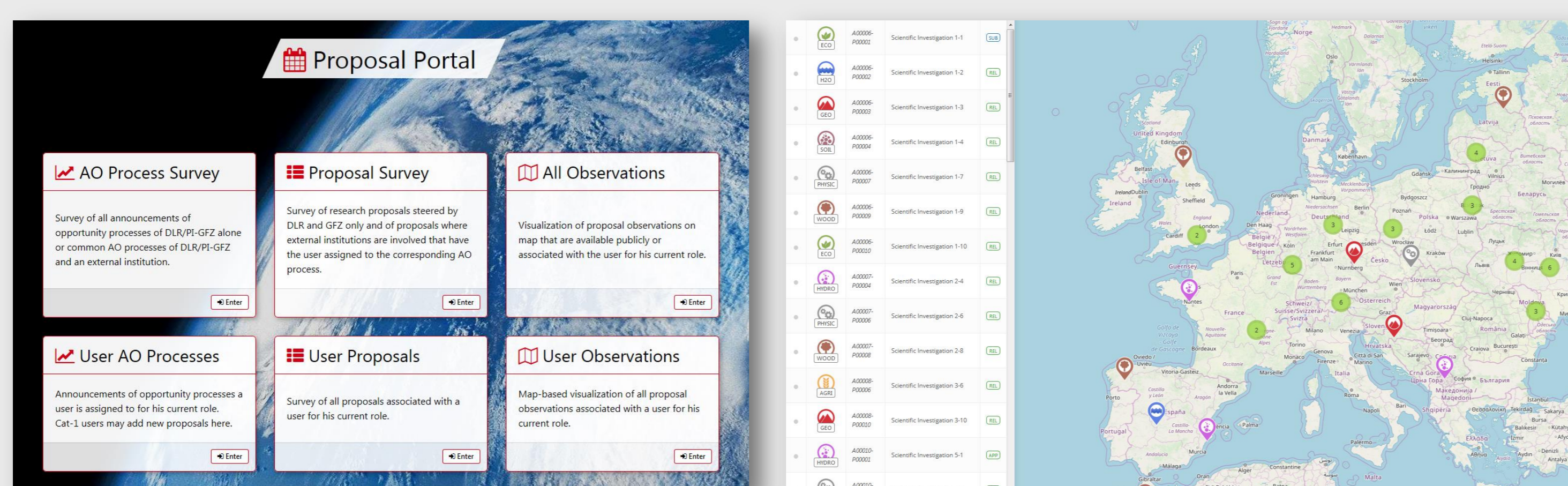


**Environmental Mapping and Analysis Program (EnMAP)** is a German hyperspectral satellite mission providing high quality hyperspectral image data on a timely and frequent basis. Main objective is to investigate a wide range of ecosystem parameters encompassing agriculture, forestry, soil and geological environments, coastal zones and inland waters. The EnMAP Ground Segment will be realized and operated by the German Aerospace Center (DLR) covering all aspects relevant to assure successful mission operations. This comprises controlling and commanding the satellite using multi-mission infrastructures as well as data reception, hyperspectral data processing including calibration, data archiving, data dissemination, and providing web-interfaces to the international user community.



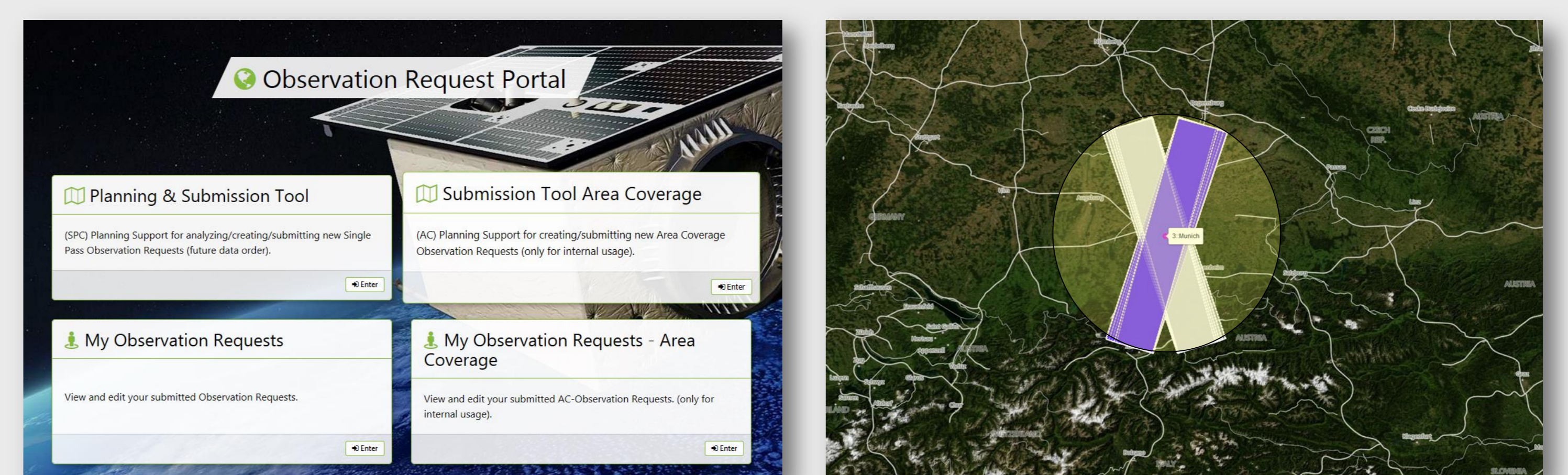
Mission organization	Mission management: DLR Space Administration, Satellite: OHB System AG, Operations: DLR
Orbit	398 revolutions in 27 days at 653 km altitude, sun-synchronous at 11:00 h ± 18 min
Revisit	4 days with ± 30° off-nadir tilt and 27 days with ± 5° off-nadir tilt
Spectral sampling	6.5 nm at 420 nm - 1000 nm (VNIR) and 10 nm at 900 nm - 2450 nm (SWIR) (accuracy: < 1 nm)
Radiometric resolution	14 bits with Signal-to-Noise Ratio 500 at 495 nm (VNIR) and 150 at 2200 nm (SWIR) (accuracy: < 5%)
Geometric resolution	30 m × 30 m with swath of 30 km, 5000 km per day with 512 Gbit on-board Coverage mass memory

### Proposal Portal



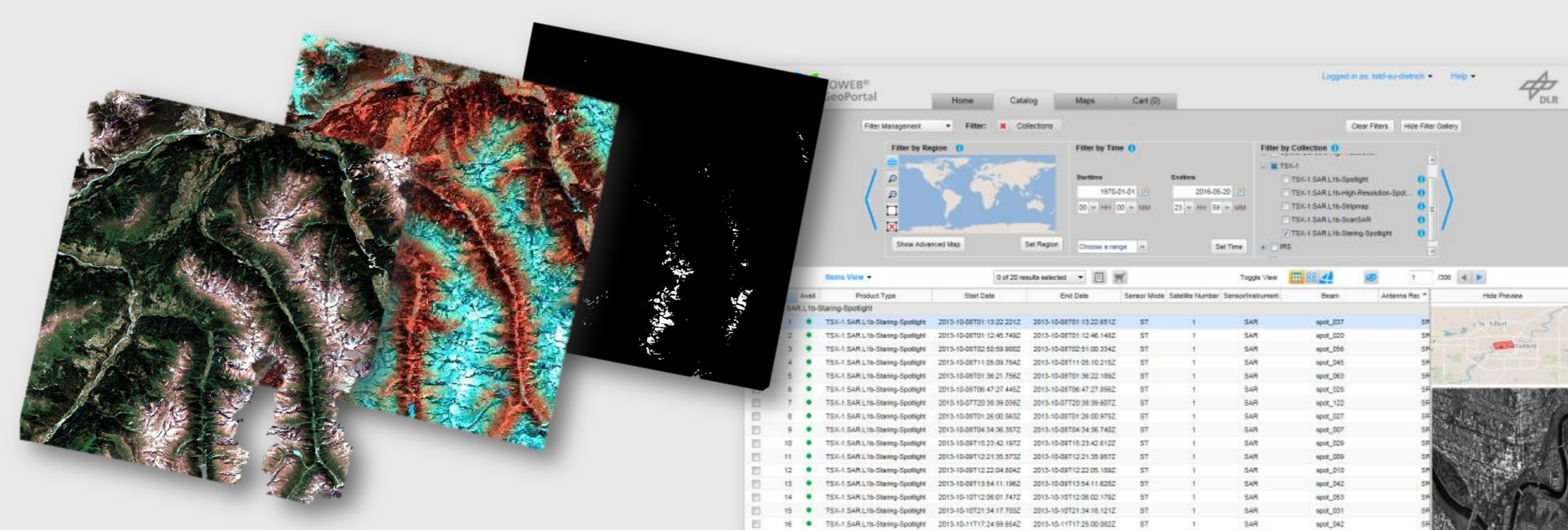
- Proposal submission for all users responding to a Data Announcement of Opportunity
- Reviews
- Interactive map supporting the establishment of a worldwide user network, highest transparency of the proposal-based scientific research projects and their results.

### Observation Request Portal



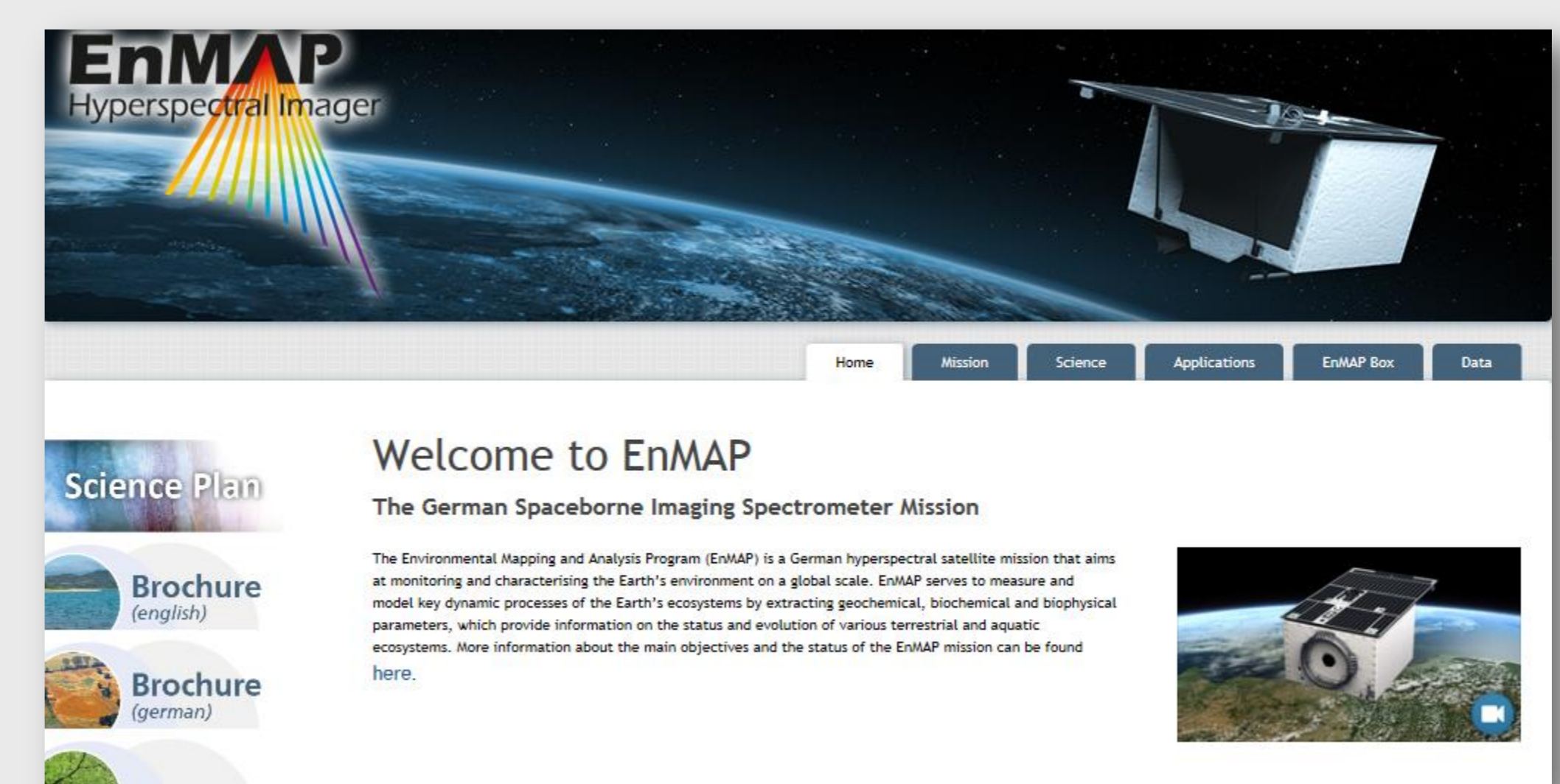
- Internal
  - Charter (Cat. II)
  - User/Institution – high (Cat. I) / User/Institution – low (Cat. I)
  - Distributor (Cat. II)
  - Background
- Cat. I based on Announcement of Opportunity  
Cat. II based on Data Policy

### Image Product Delivery



- Collection and Product Metadata (order): OGC CSW
- VNIR, SWIR, and Quality Quicklooks: OGC WMS
- Graphical Client to OGC CSW/WMS: EGP (EOWEB GeoPortal)
- Product covers 30 km x 30 km and is delivered via FTP

### EnMAP Portal ([www.enmap.org](http://www.enmap.org))



- EnMAP Portal ([www.enmap.org](http://www.enmap.org)) provides general mission information:
- EnMAP mission, its objectives and status
  - Data products and processing chains
  - Ongoing scientific programs and activities.

