

**Interreg
Europe**



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SATSDIFACTION

Engaging session with partners and experts: Accessing and using satellite data

ALL PARTNERS

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ACCESS to satellite data and/or services

In order to make decisions based on satellite data, it is essential to integrate them into everyday processes, but to do so, it is necessary to access and integrate data structures.

*Therefore, based on the scenario that the Region finds that satellite data is necessary for understanding an issue or decision-making, we would like to learn about each partner's experience by answering some questions about the **Regions and regional municipalities access to satellite data and data services.***



ACCESS to satellite data and/or services

VENETO REGION

How to Access the Data:

- **Regional Spatial Data Infrastructure (IDT):** official source of certified geographic and topographic data (INSPIRE compliant) for public authorities, municipalities, citizens, and professionals. A dedicated section hosts satellite data collections.
- **Direct access** on GIS software through **OGC services:** WMS, WMTS, WFS and GI.
- **Raw data and large-volume data** not available on IDT: can be requested on demand.

Types of Data:

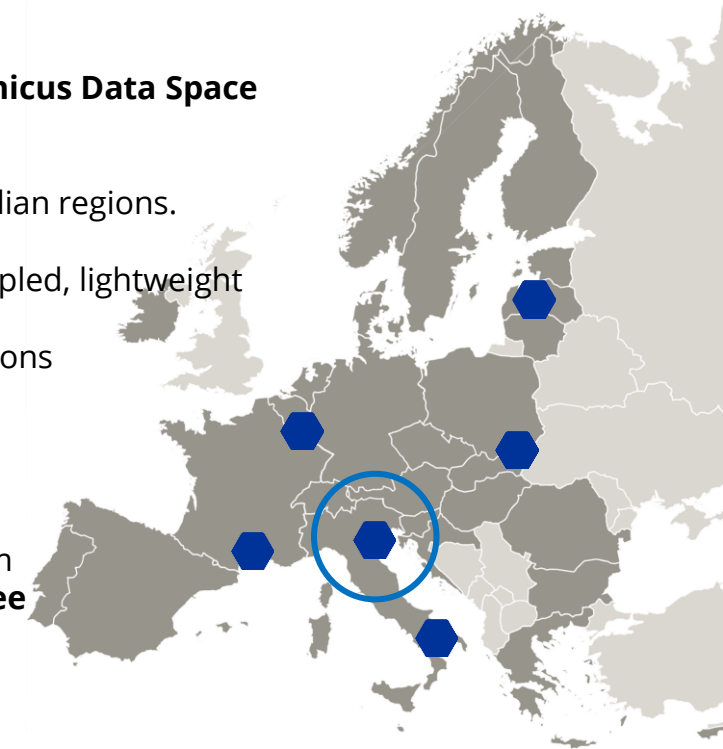
- **Open-source EO data** (Copernicus/Sentinel, Landsat, etc.): available via accounts on **Sentinel Hub** and **Copernicus Data Space Ecosystem**; regularly updated; includes common spectral indexes.
- **High-Resolution (HR) and Very-High-Resolution (VHR)** EO data (e.g., TripletSat, SPOT, Planet, GAOFEN..)
- **Aerial orthophotos** (20 cm, RGB+NIR): acquired every 3 years by AGEA at the national level, available for all Italian regions.
- **Local aerial orthophotos:** used to update the **regional spatial geodatabases**.
- **LiDAR data:** acquired with regional funds or specific agreements; cover most of the regional territory. A resampled, lightweight mosaic is available for direct download from the regional geoportal.
- **On-demand UAV surveys** (LiDAR, aerial photogrammetry): performed only for internal use within administrations

Who pays and for what

- SDI (IDT) maintenance/update costs are covered from **Veneto region** (ICT and Spatial Planning Dept.)
- Open EO data, HR and VHR EO data purchase costs are covered from **Veneto region and/or regional agencies** (e.g. ARPAV)
- Production of remote sensing surveys data at regional level (Lidar, orthophotos) acquisition data are covered from **Veneto region** or other administrations through specific agreements. Access to IDT and its data/services **are free for all citizens, administrations, public authorities, professionals**.
- Production of remote sensing surveys data on national level (orthophotos, EO data, LiDAR) acquisition data are covered with **national funds by national agencies/ministries**

Annually or on a case-by-case basis

- Open EO data (Sentinel, Landsat) are updated regularly based on the latest available imagery. Additionally, on an annual basis, a high-resolution (HR) or very-high-resolution (VHR) ortho-mosaic image of the entire Veneto region are usually acquired. For other types of data, there is no fixed update schedule; updates depend on specific local needs and funds. At the national level, orthoimages are updated every three years.



ACCESS to satellite data and/or services

AZORES REGION

How access the data:

- **Your Region?**

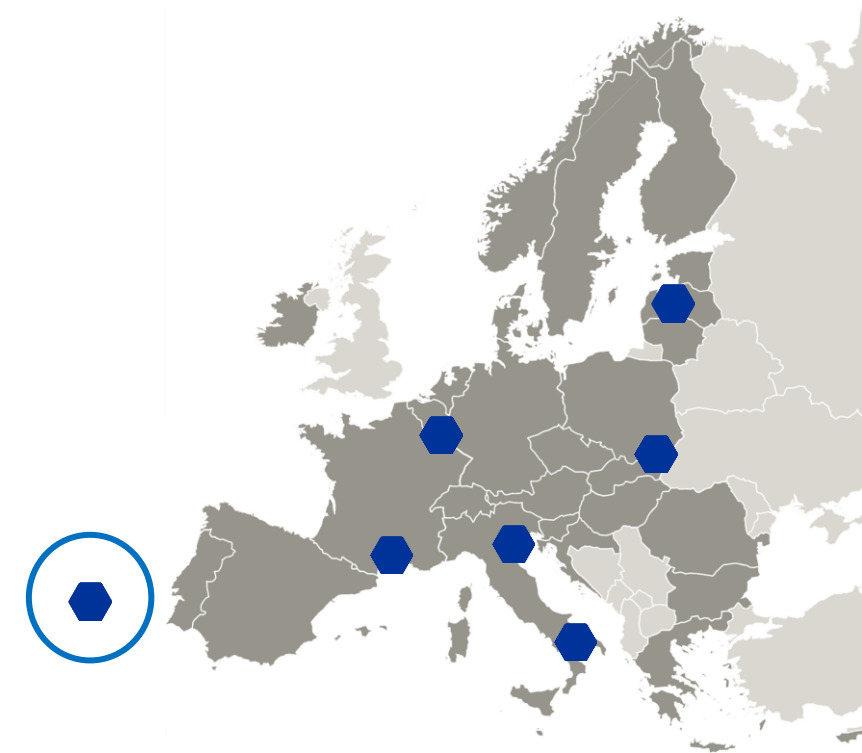
In global terms, there is no specific data collection for this subject.

- Online research
- For specific purposes: contacting with companies/organizations asking for data and services and to clarify necessary questions

Who pays and for what

- Portuguese Space Agency for support and financing

Annually or case to case



ACCESS to satellite data and/or services

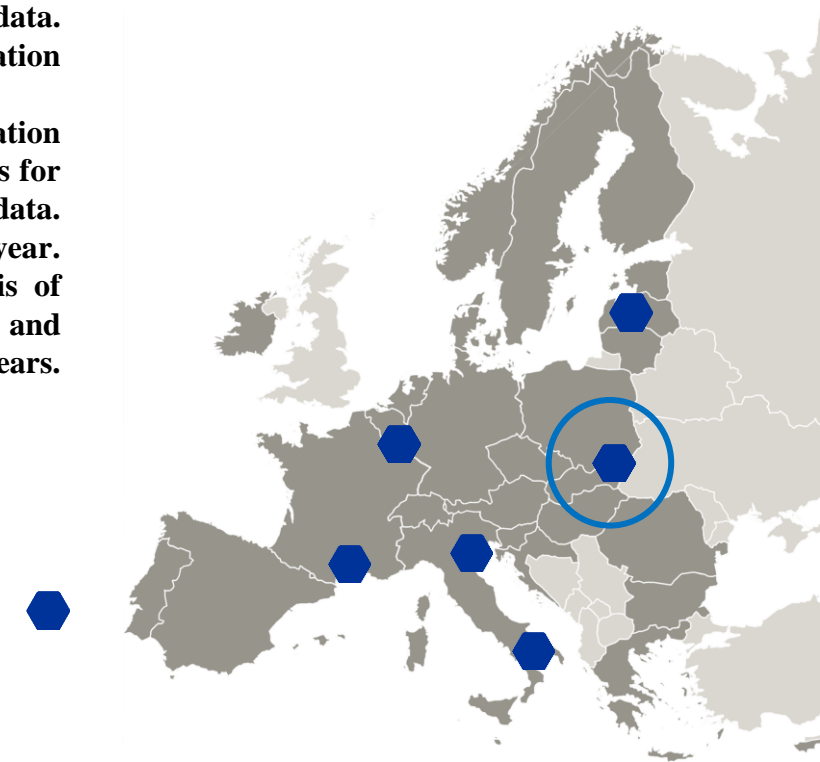
How access the data in Municipality: **PODKARPACKIE REGION**

- Quantum GIS, QGIS enables, among other things, the collection, processing (creation, selection, identification, editing, viewing, management), display, analysis, interpretation, and sharing of spatial data, including the publication of map compositions on the Internet.
- MapInfo, GIS (Geographic Information System) program that allows you to create, manage, and update spatial data. With its help, you can visualize and analyze data on maps, as well as successfully build advanced spatial information systems.
- ArcGIS is a comprehensive geospatial platform for professionals and institutions. It is a leading geographic information system (GIS) technology. Integrates and connects data in a geographic context. It provides the world's best capabilities for creating, managing, analyzing, mapping, and sharing all types of data.
Annual license €24,000 per year.
- ObliView, is an advanced application/web-based mapping system that enables interactive viewing and analysis of geospatial data in 2D and 3D formats. It integrates data sources such as orthophotomaps, oblique images, 3D models, and point clouds.
Update every few years.
Not needed every year.

Who pays and for what? - Municipality

- Quantum GIS - Free.
- MapInfo - Annual license for 1 person – 715 Euro.
- ArcGIS - Annual license 24,000 Euro per year.
- ObliView - cost of over 1 Euro million.

Programs mainly used by the Rzeszów City Development Office and the Rzeszów Municipal Greenery Management Board.



ACCESS to satellite data and/or services

How access the data:

- **Your Region?**
 - Regional **Open Data** portal, **OpenIG** platform (geographical infrastructures), **Picto Occitanie** (interactive maps).
- **Regions municipalities?**
 - Local data available through municipal websites (e.g., Toulouse Métropole).
 - National Portals: data.gouv.fr for national-level geospatial data.

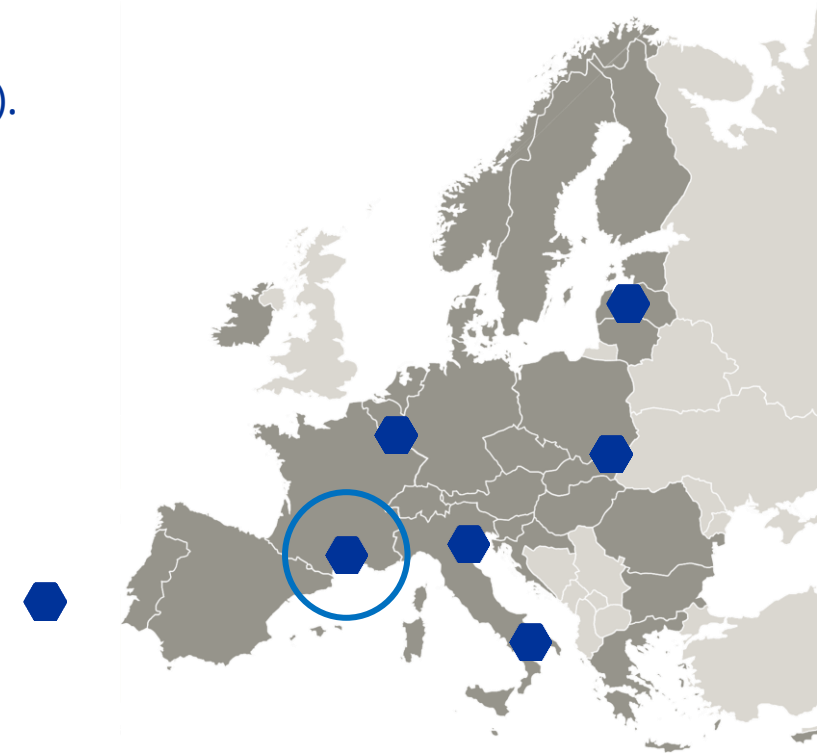
Who pays and for what ?

- **State** : Funds the provision of geospatial data through institutions like **IGN** (National Geographic Institute).
- **Local Authorities** : Region, departments, and municipalities fund the collection of local geospatial data (e.g., land-use planning, risk management).

Annually or on a case-by-case basis

- **Annually** : Regular updates of geospatial data through Open Data portals, funding of recurring projects (e.g., IGN maps).
- **On a case-by-case basis** : One-time funding for specific data collection or study projects (e.g., infrastructure or urban planning projects).

OCCITANIE REGION



ACCESS to satellite data and/or services

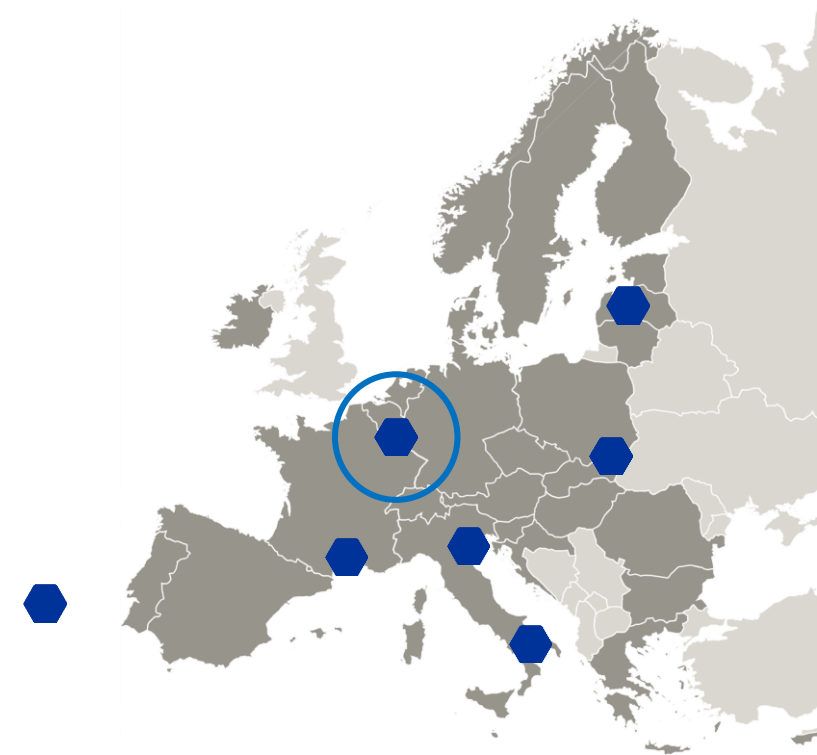
How access the data: Your Region?

- Free and regular access to **Sentinel data and products** -> Copernicus Data Space Ecosystem, Copernicus Land Monitoring Service platform, WEkEO, Terrascope (Belgian Federal platform)
- **VHR data** (Pléiades/Worldview) access on a case-by-case basis through GIM (official Belgian provider), Airbus and DINAMIS, with reduced fees for universities and public research centers
- **Aerial orthophotos** (25cm, VNIR) acquired and paid by Public Service of Wallonia (SPW) 2x a year, freely accessible to all citizens on the Walloon Geoportal
- **LiDAR data** acquired and paid by SPW every 5-6 years, freely accessible on the Geoportal

Regions municipalities?

- Data access through the **Geoportal**. No common data purchase procedure at the regional level

WALLONIA REGION



ACCESS to satellite data and/or services

SVILUPPO BASILICATA REGION

How access the data:

- Region of Basilicata: **only open-source satellite data** (Copernicus, ESA).
- Municipalities and citizens: access through the **Regional Spatial Data Infrastructure - RSDI** platform with open geospatial services.

Who pays and for what

Citizens & Public Authorities: no costs – access to RSDI services is free.

Satellite images: only open and free sources (Copernicus, ESA).

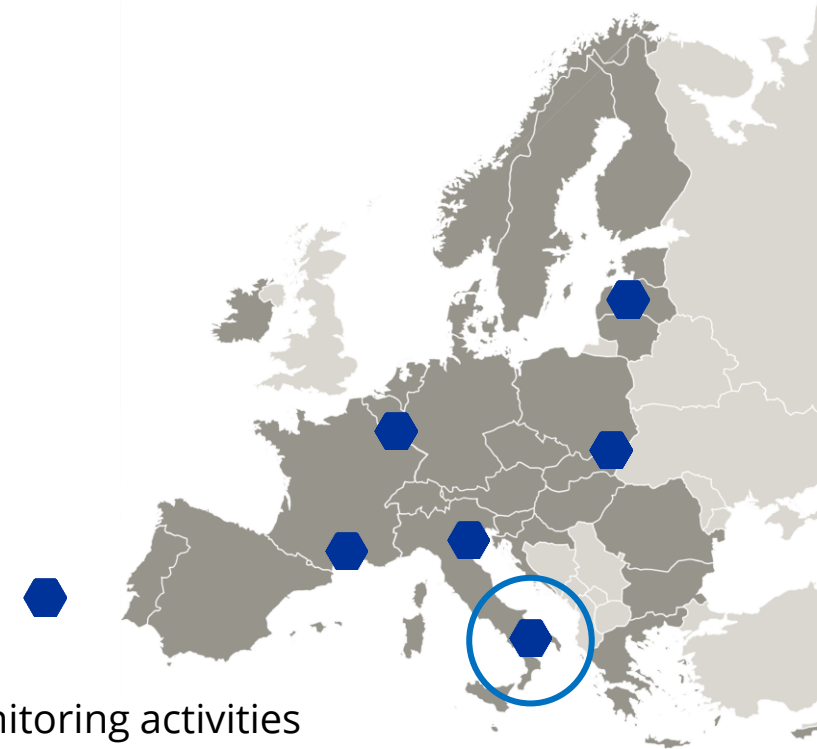
Region of Basilicata: covers the costs of advanced territorial services, investing in the RSDI platform for:

- GeoData Catalogue
- Regional cartography
- Seismic microzonation & Landscape Plan (PPR)
- Monitoring of burned areas and forest fires
- GeoDashboards (social, economic indicators)

Annually or on a case-by-case basis

Annual/continuous use: satellite data are systematically employed for territorial monitoring activities such as the Forest Fire Cadastre, as well as coastal and land management.

Case-by-case use: in addition to ordinary monitoring, data and services are activated in response to emergency events (wildfires in progress, storms, floods, landslides).



ACCESS to satellite data and/or services

How access the data:

- Riga Planning Region: not now
- Municipality of Riga: Copernicus EO portal, Landsat

Who pays and for what

Municipality of Riga uses open source data

- a) Uses the Copernicus EO portal, which provides free access to satellite images and global datasets/products.
- b) SATSDIFACTION covers the costs for methods and expertise to develop the dataflow.

Annually or on a case-by-case basis

- Riga Planning Region: Proposal to launch an ESA-financed project
- Municipality of Riga: Case-by-case, planned annually for workflows designed during Satsdifaction.

RIGA PLANNING REGION/RIGA

