

EPOS
EUROPEAN PLATE OBSERVING SYSTEM

ABOUT EPOS ▾ USERS ▾ SERVICES ▾ PROJECTS ▾ PARTNERS ▾ COMMUNICATION ▾ CONTACT US ▾ INTRANET

Welcome to the
EPOS Platform

A multi-disciplinary open platform for integrated access to Solid Earth science datasets

[Data Access](#)

355
Data and Service Providers

>800
Terabytes of Integrated Data

324
Data Services

>16000
Unique Visitors

Integrated Core Services
The Integrated Core Services (ICS) provides the core of the EPOS e-infrastructure ensuring interoperability between the National Research Infrastructures (NRIs).

Thematic Core Services
Each community provides access to its resources through European-wide services called Thematic Core Services (TCS).

Trans-National Access
One of the services that the Thematic Core Services are planning to offer in the framework of EPOS is Trans-National Access (TNA) to the newest and most advanced solid Earth experimental laboratory facilities in Europe.

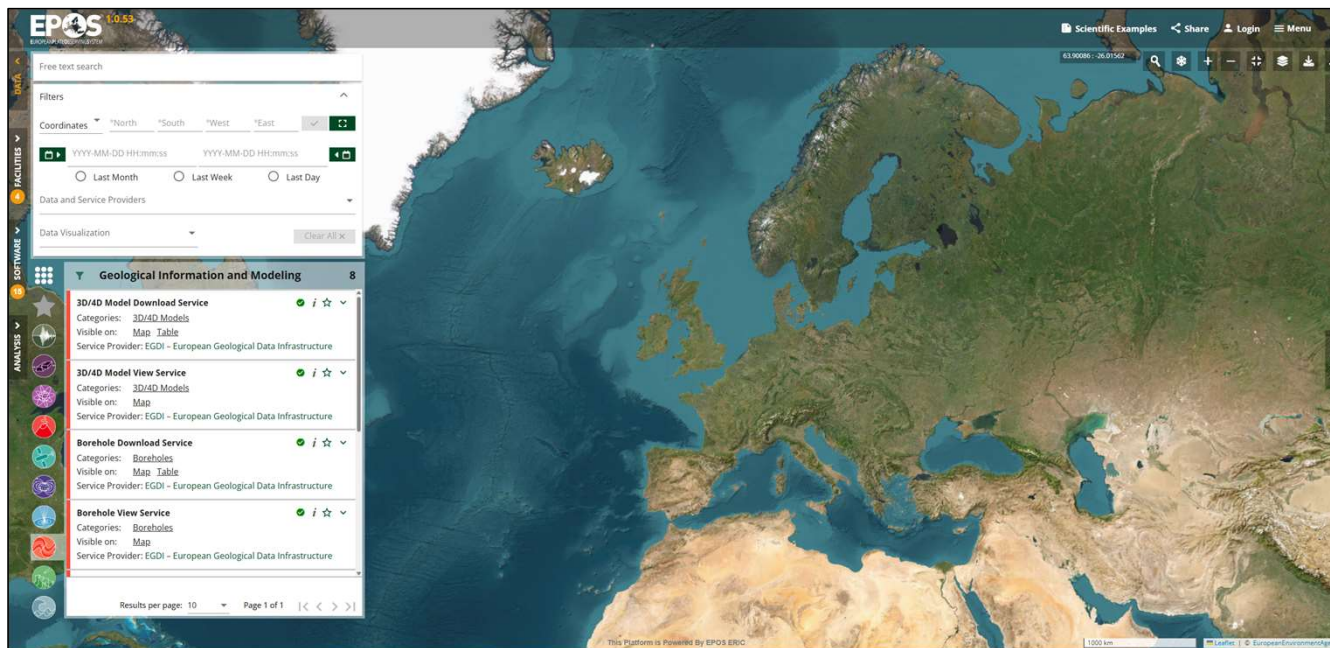
Interoperability
The exchange of metadata between ICS and TCS is crucial to achieve integration and interoperability in EPOS.

Technical documents
A collection of reference documents to better understand the technical aspects of the EPOS ICT framework.



EPOS PLATFORM: BOREHOLE VIEW SERVICE - BOREHOLE DOWNLOAD SERVICE

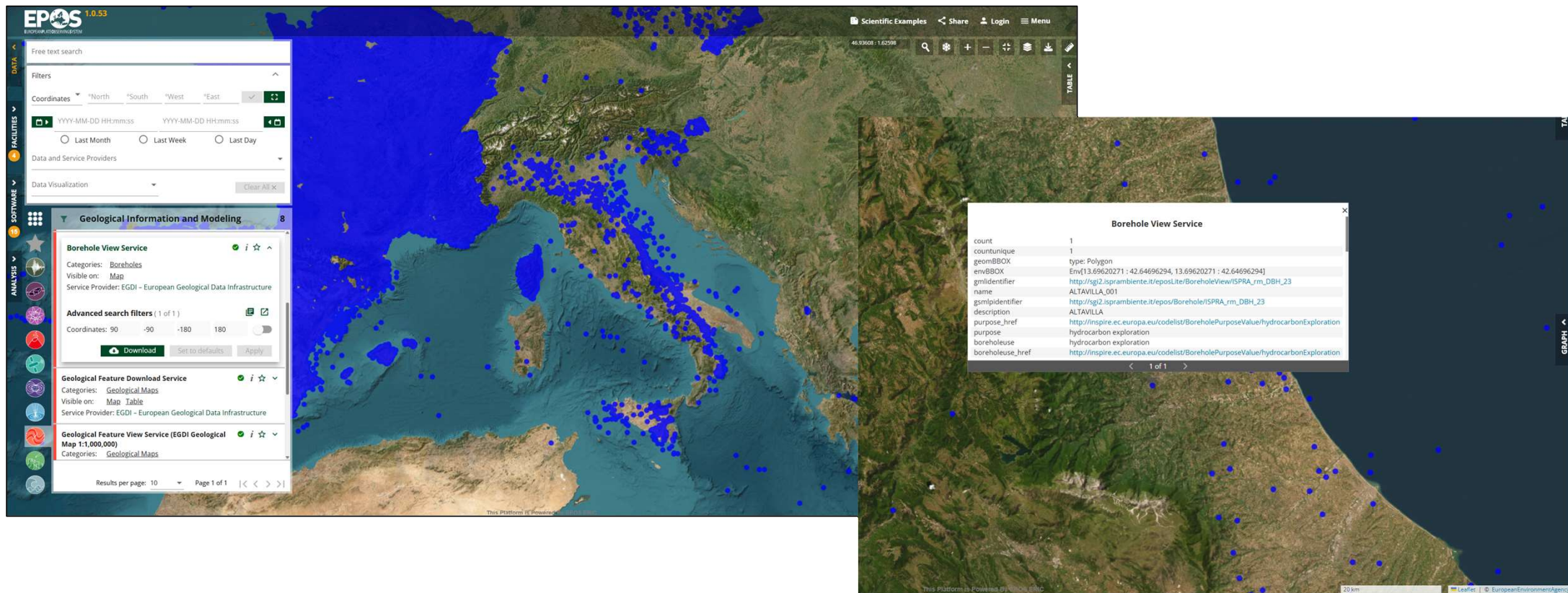
PORTAL OF THE GEOLOGICAL SURVEY OF ITALY: LAW 464/84 BOREHOLES - DEEP BOREHOLES



Borehole Download Service	✓ i ☆ ▼
Categories: Boreholes	
Visible on: Map Table	
Service Provider: EGDI - European Geological Data Infrastructure	
Borehole View Service	✓ i ☆ ▼
Categories: Boreholes	
Visible on: Map	
Service Provider: EGDI - European Geological Data Infrastructure	

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The screenshot displays the EPOS platform interface. On the left, a sidebar lists various services under the 'Geological Information and Modeling' category. The main map area shows a topographic view of Europe. A pop-up window titled 'Geological Feature Download Service' is open, showing search filters and a 'Download' button. The pop-up includes the following details:

- Geological Feature Download Service** (with icons for info, star, and share)
- Categories: Geological Maps
- Visible on: Map Table
- Service Provider: EGD - European Geological Data Infrastructure
- Advanced search filters (1 of 1)
- Coordinates: 38,191 - 37,605 -2,0888 -1,4699
- Buttons: Download, Set to defaults, Apply

Service documentation:

https://data.geoscience.earth/doc/Service_documentation/GeologicFeatureIndex_DownloadService.html

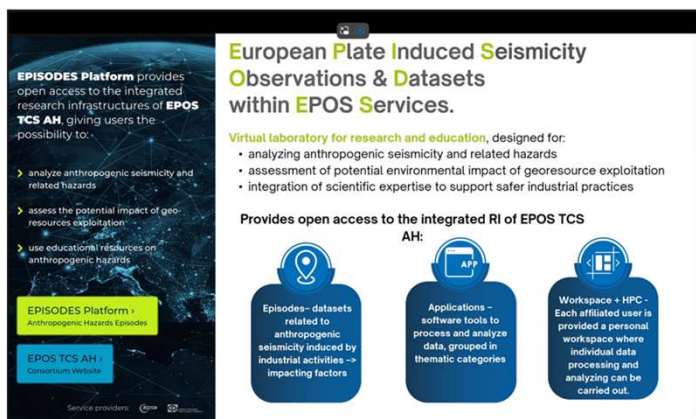
Multidisciplinary: TCS GIM & induced seismicity



Collaboration TCS GIM with TCS AH in Geo-INQUIRE Project, WP4 “Access to products enabling curiosity-driven science for georesources exploration and exploitation”

Objective: Link boreholes and geological models to episodes in the EPISODES Platform

Work done: To extend the multidisciplinary aspect of the TCS AH episodes a linkage with borehole information has been established through WFS API, thus enabling a direct and dynamic access to relevant borehole data provided by TCS GIM.



EPISODES Platform provides open access to the integrated research infrastructures of **EPOS TCS AH**, giving users the possibility to:

- analyze anthropogenic seismicity and related hazards
- assess the potential impact of georesources exploitation
- use educational resources on anthropogenic hazards

EPISODES Platform - Anthropogenic Hazards Episodes
EPOS TCS AH - Consortium Website

European Plate Induced Seismicity Observations & Datasets within EPOS Services.

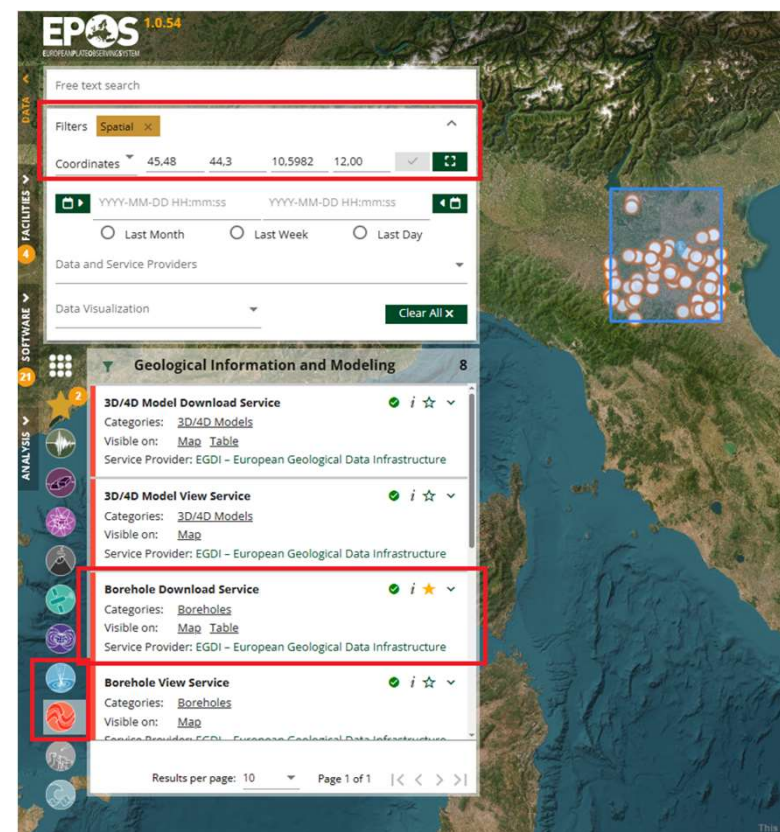
Virtual laboratory for research and education, designed for:

- analyzing anthropogenic seismicity and related hazards
- assessment of potential environmental impact of georesource exploitation
- integration of scientific expertise to support safer industrial practices

Provides open access to the integrated RI of EPOS TCS AH:

- Episodes - datasets** related to anthropogenic seismicity induced by industrial activities -> impacting factors
- Applications** - software tools to process and analyze data, grouped in thematic categories
- Workspace + HPC** - Each affiliated user is provided a personal workspace where individual data processing and analyzing can be carried out.

EPISODES PLATFORM

EPOS 1.0.54
EUROPEAN PLATE OBSERVING SYSTEM

Free text search

Filters: **Spatial**

Coordinates: 45.48 44.3 10.5982 12.00

YYYY-MM-DD HH:mm:ss YYYY-MM-DD HH:mm:ss

☐ Last Month ☐ Last Week ☐ Last Day

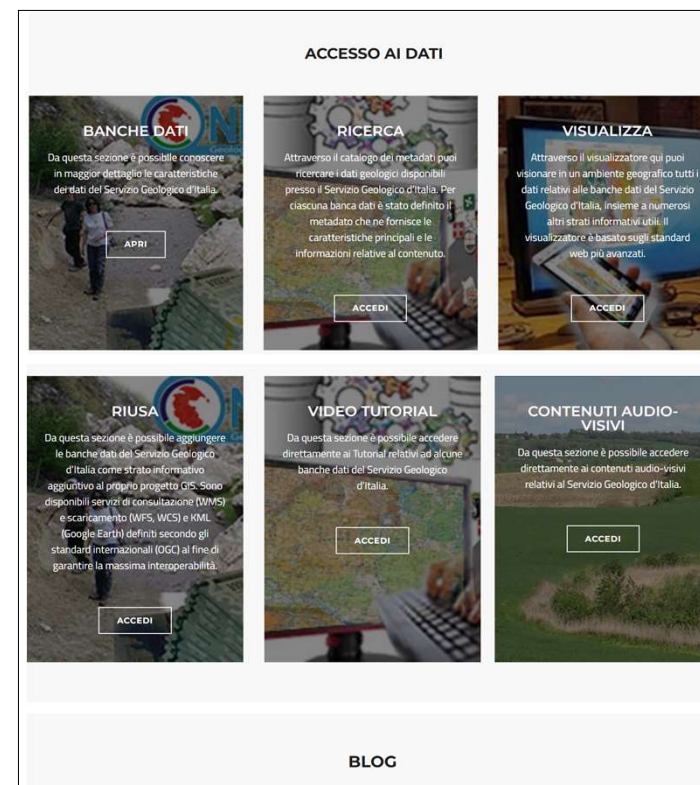
Data and Service Providers

Data Visualization

Geological Information and Modeling 8

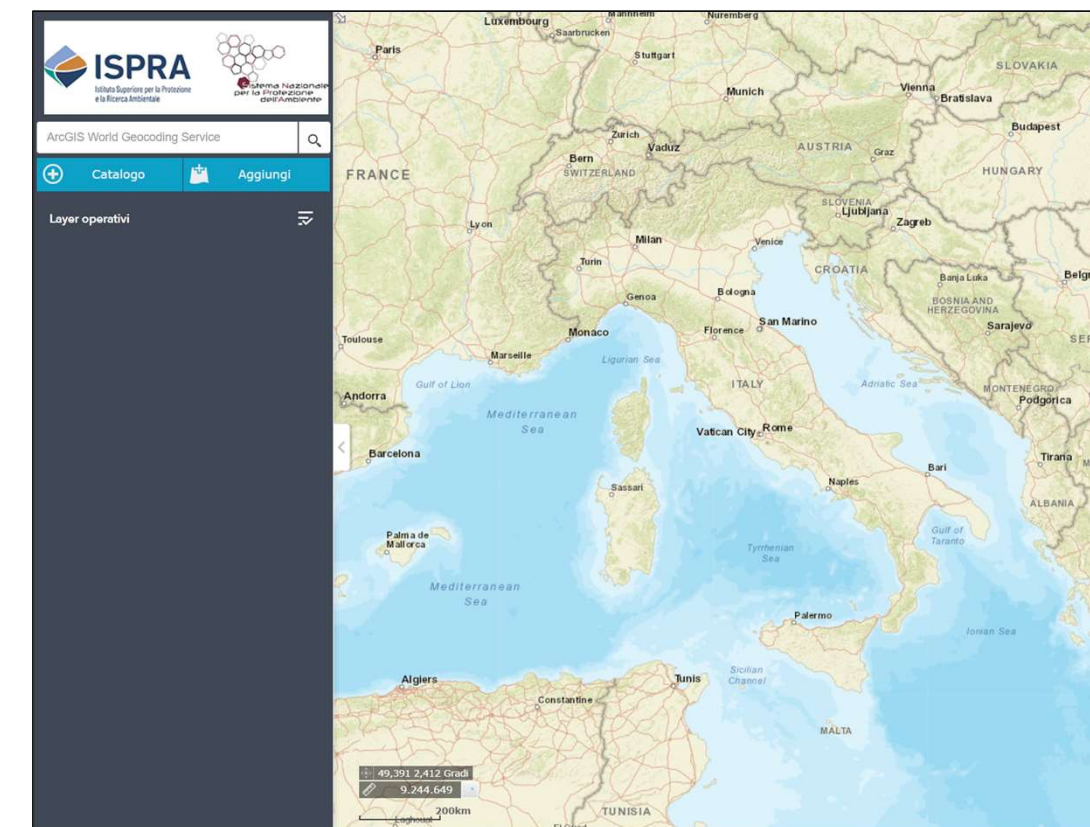
- 3D/4D Model Download Service**
Categories: [3D/4D Models](#)
Visible on: [Map](#) [Table](#)
Service Provider: EGD - European Geological Data Infrastructure
- 3D/4D Model View Service**
Categories: [3D/4D Models](#)
Visible on: [Map](#)
Service Provider: EGD - European Geological Data Infrastructure
- Borehole Download Service**
Categories: [Boreholes](#)
Visible on: [Map](#) [Table](#)
Service Provider: EGD - European Geological Data Infrastructure
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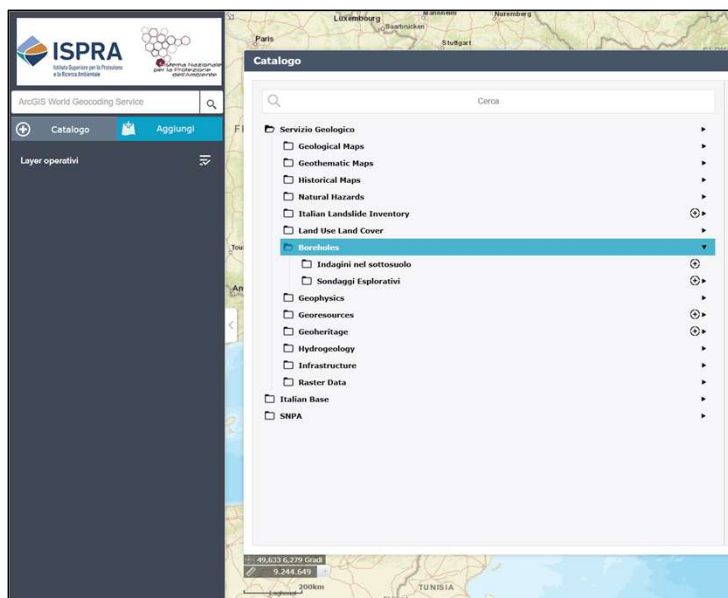
Results per page: 10 Page 1 of 1



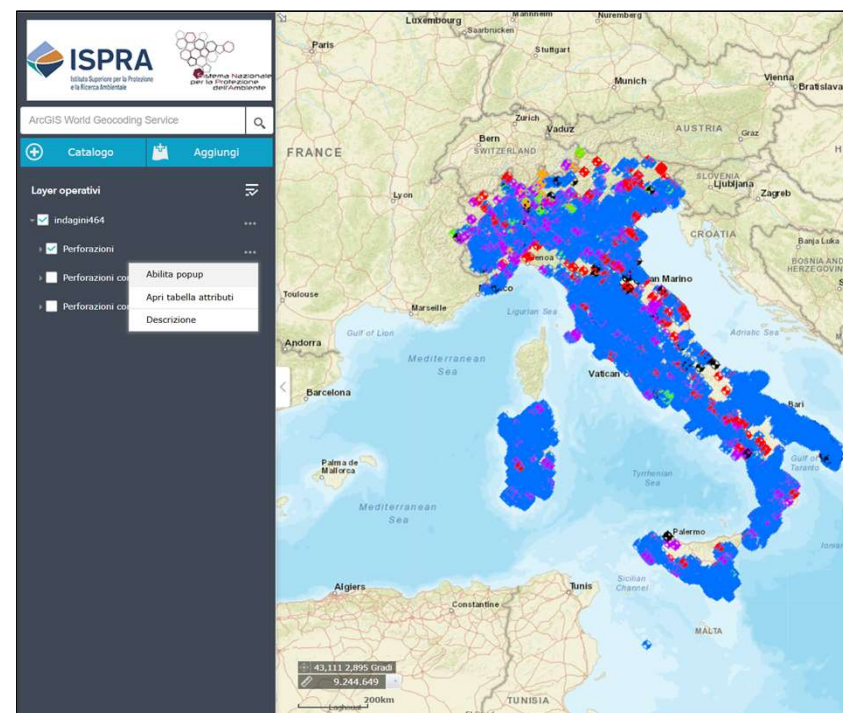
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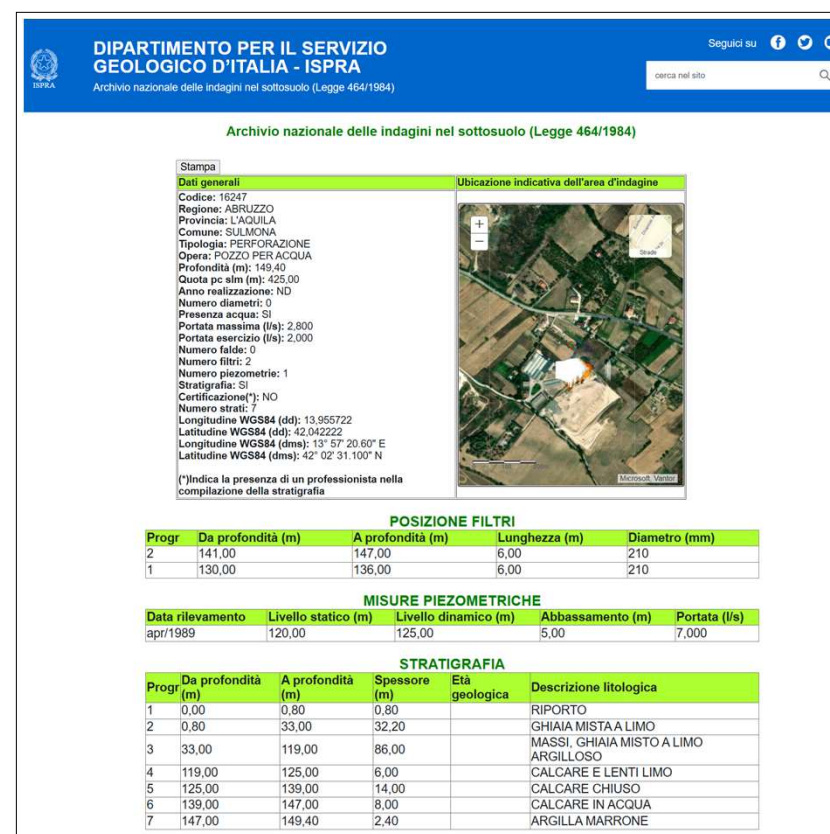
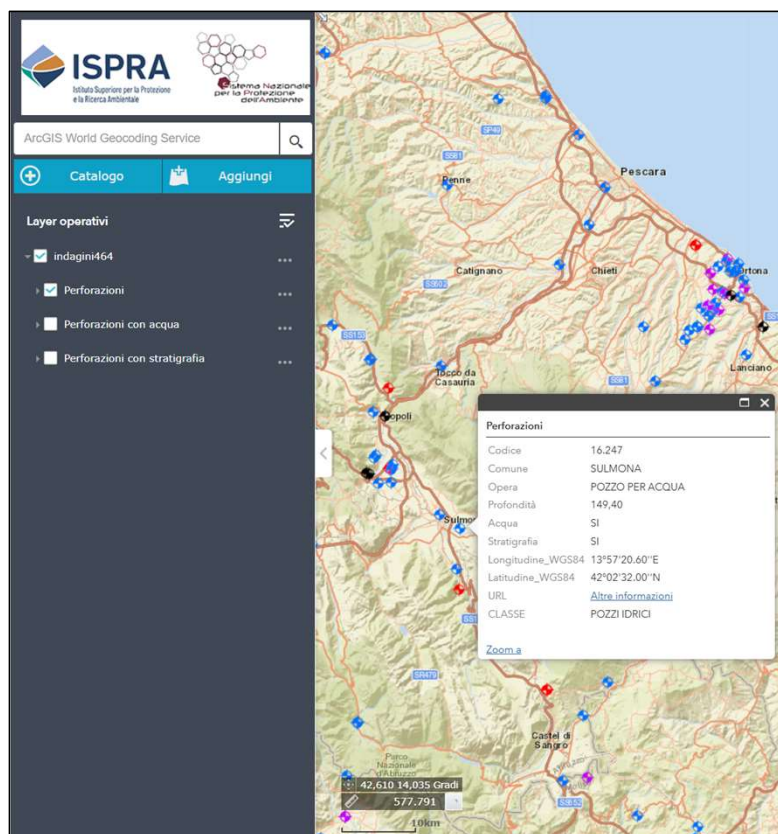
Provisions on information obligations regarding subsurface studies and investigations pursuant to Law No. 464 of 4 August 1984 (464/84)

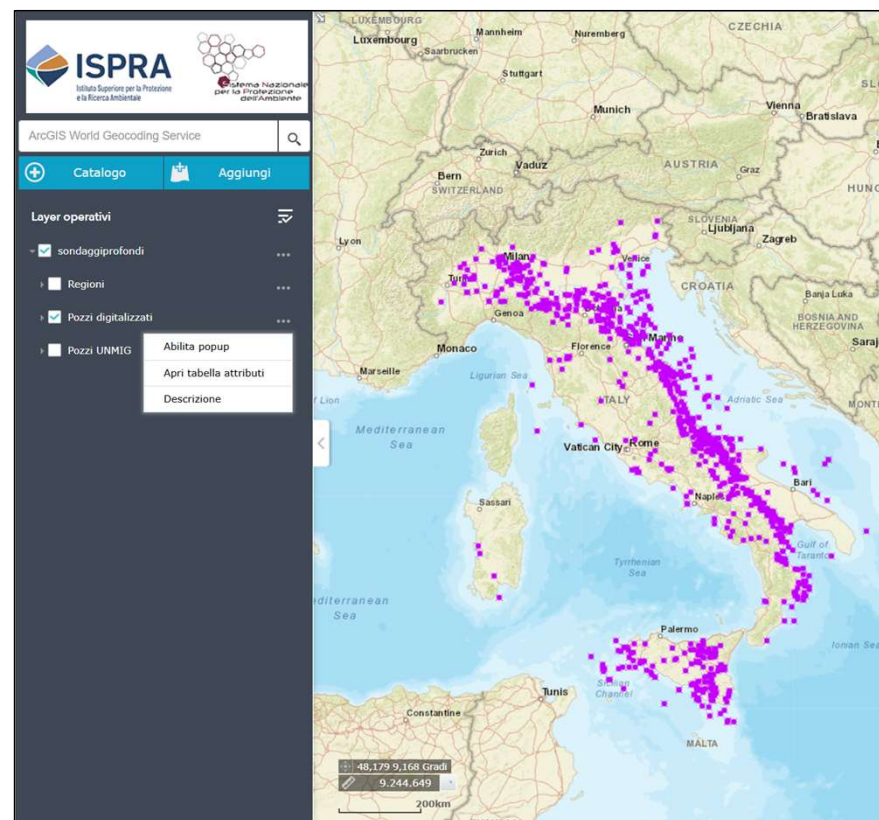
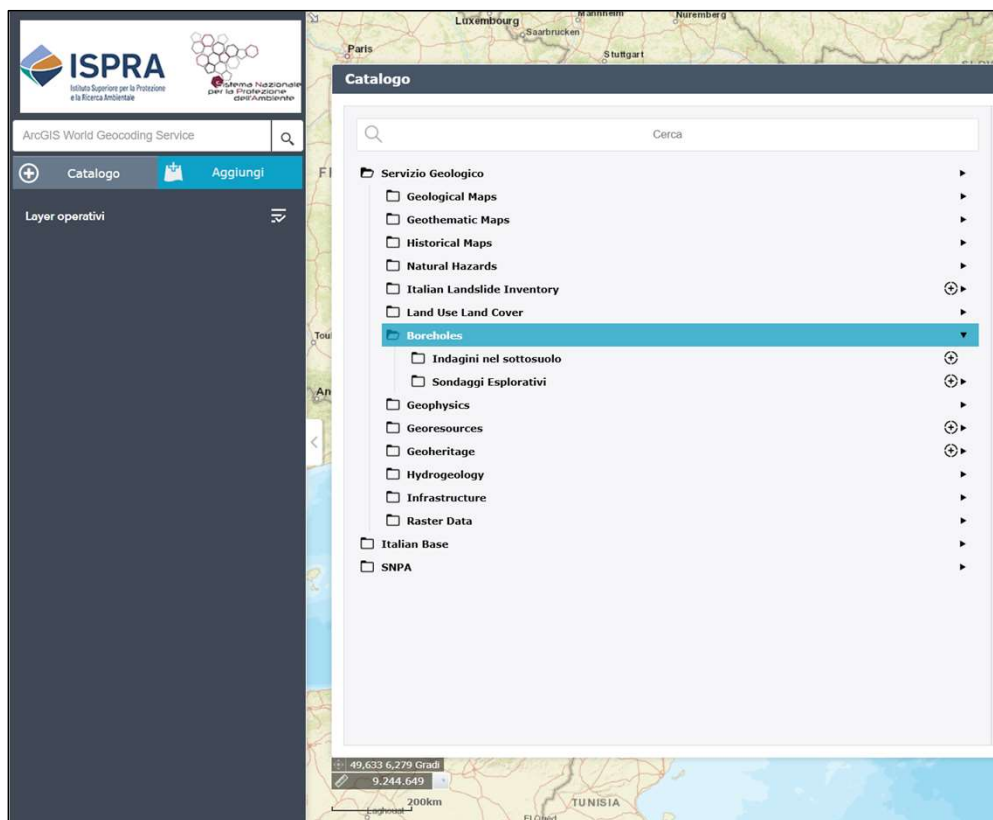


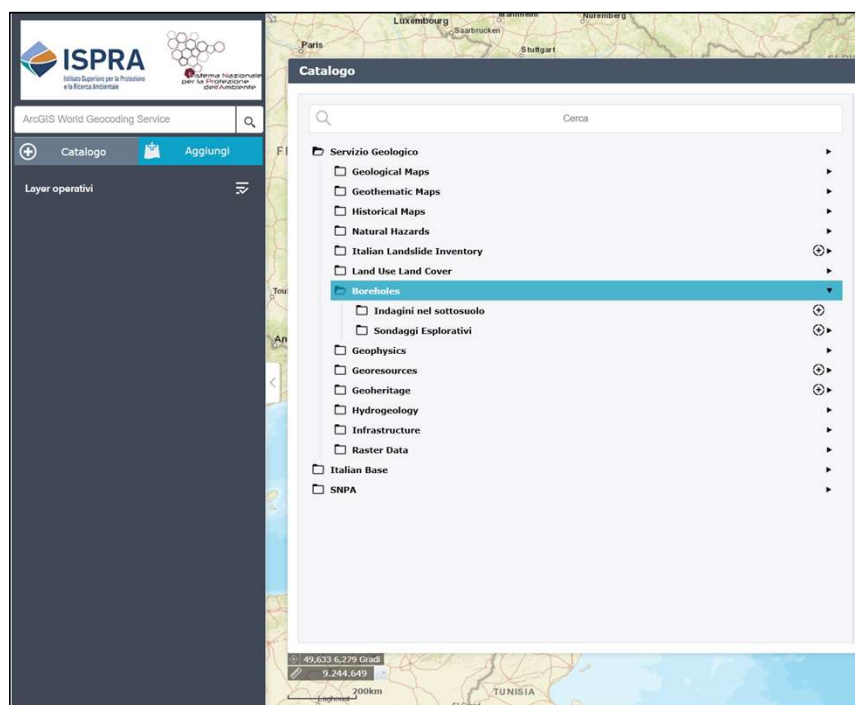
Under Law No. **464** of 4 August **1984**, there is a legal obligation to report to the Italian Department for the Geological Survey of Italy (ISPRA) any information concerning **studies** or **investigations** of the national subsurface, whether for **water research** purposes or **civil engineering works**.

This information specifically includes investigations involving **excavations, boreholes, and geophysical surveys** conducted at depths greater than **30 meters** below ground level, or, in the case of tunnels, longer than 200 meters.

The law was primarily established to collect and preserve knowledge about **the geological, hydrogeological, and geophysical structure** of the national subsurface.

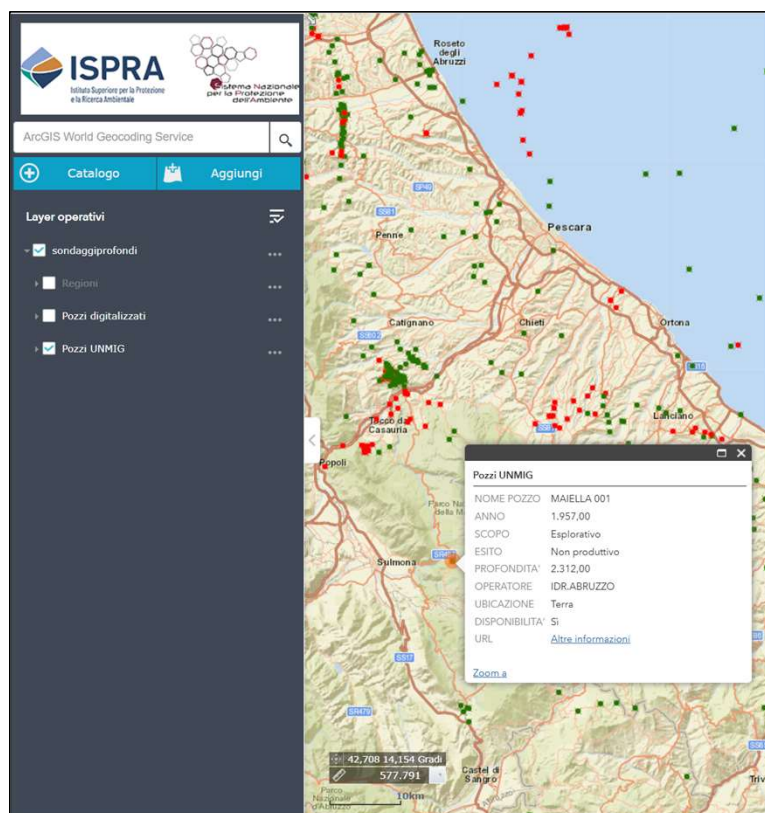






The **UNMIG** (National Mining Office for Hydrocarbons and Georesources) is an office of the Italian Ministry of the Environment and Energy Security responsible for overseeing, ensuring safety, and protecting the environment in the sectors of **exploration, production, and storage of hydrocarbons** (gas and oil) in Italy. Established in 1957, it monitors both onshore and offshore mining activities, ensuring compliance with current regulations.

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