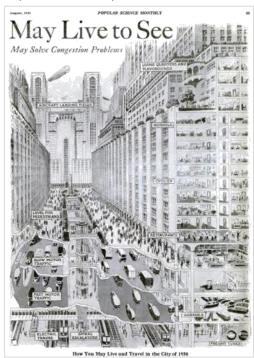








Popular Science Monthly, 1925



looking at the range of current and future uses of the subsurface

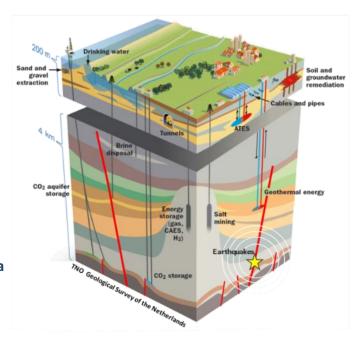
unchanged needs and emerging challenges

same demand f<mark>or up-to-date, highquality, public</mark> subsurface geoscientific knowledge, data and information

- integrate and reconcile data
- document geology in 3D
- reliable, open and interoperable data

DIFFERENT USERS

Scientific knowledge
Decision makers support
Public awareness

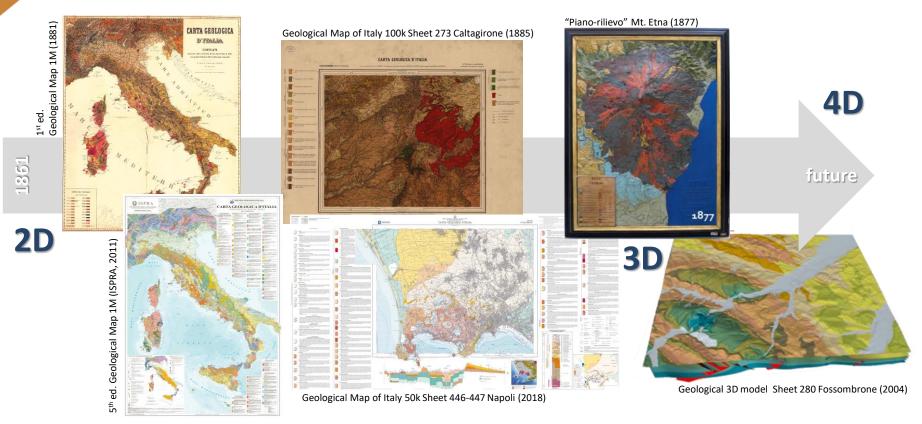






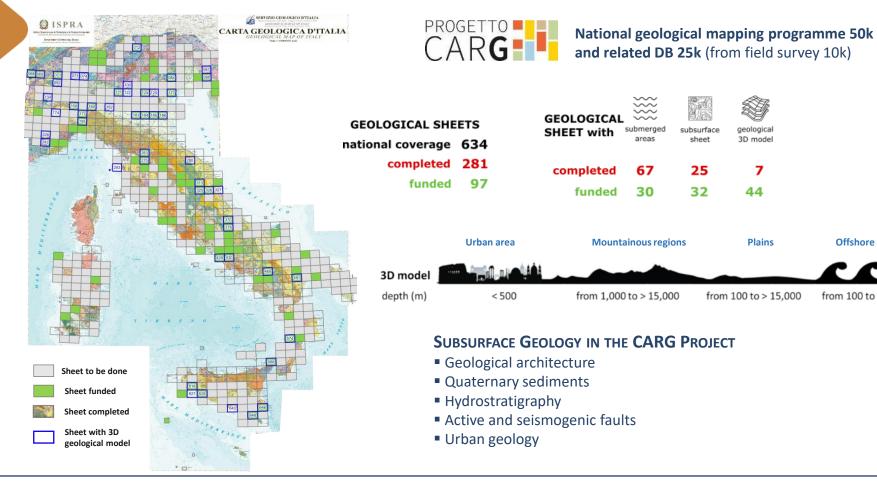


Servizio Geologico d'Italia has long-established workflows for collection, management, integration and dissemination of geological data













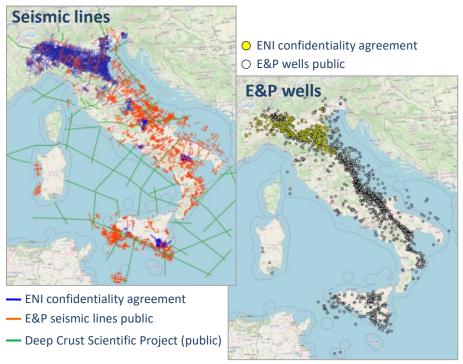


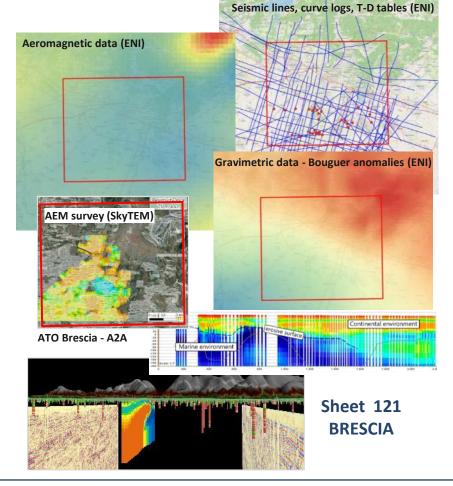
Offshore areas

from 100 to > 15,000



Collaboration with private companies to access strategic subsurface data for the geological 3D models of the CARG Project

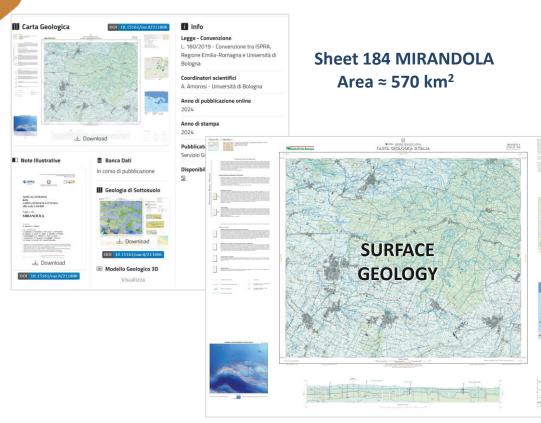


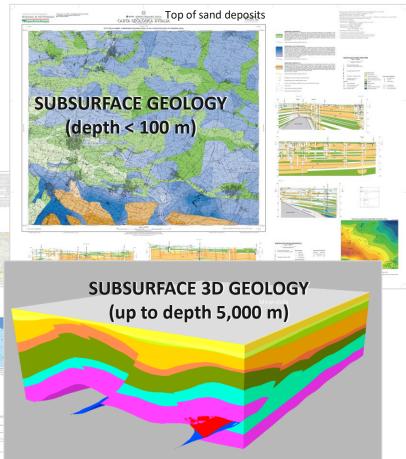






FROM SURFACE TO HELL





https://progetto-carg.isprambiente.it





Directive 1024/2019/UE on open data and the re-use of public sector information

HIGH VALUE DATASETS



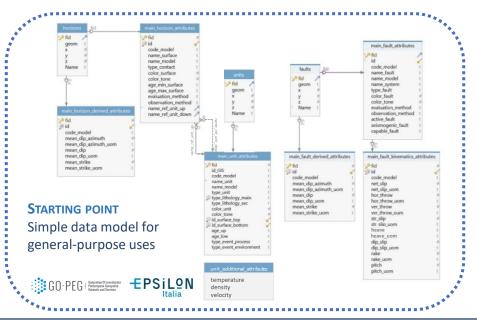








are data associated with important benefits for society, the environment and the economy. They are considered reliable, homogeneous, in type and content.



High-value datasets shall be

- available free of charge (CC BY 4.0 or other open or less restrictive licence)
- open, machine-readable and publicly documented format, recognized in the European Union or at international level
- provided via APIs and bulk download
- with INSPIRE metadata



to comply with the mandatory European rules for public sector organisations on data sharing and interoperability

GEOLOGICAL 3D MODEL







Adoption of an INSPIRE Geologybased extended Data Model



Reuse and extension of INSPIRE and GeoSciML vocabulary codelists

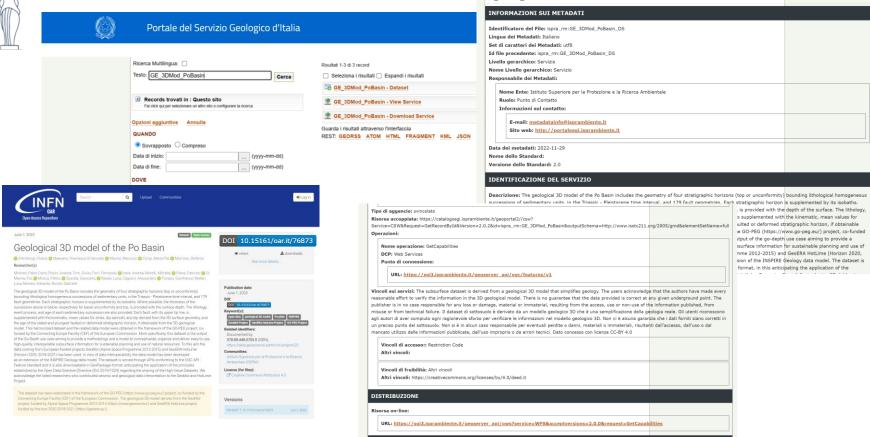








Metadata catalogue and DOI



GE 3DMod PoBasin - Download Service

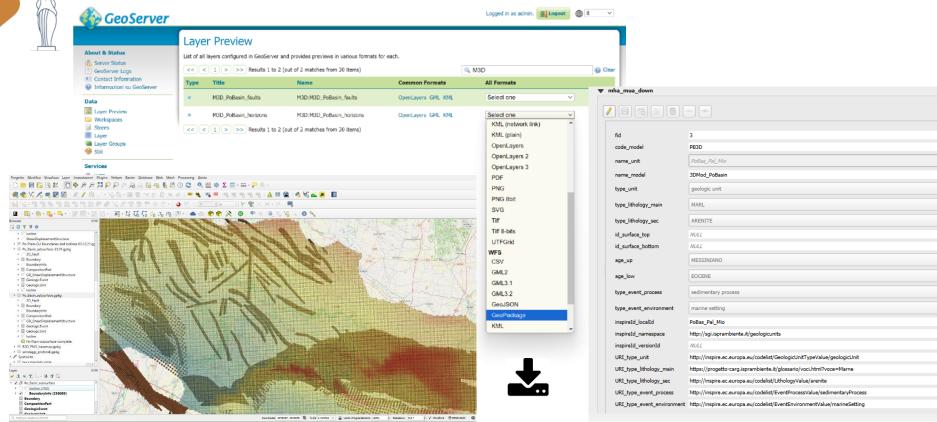








OGC standard download services

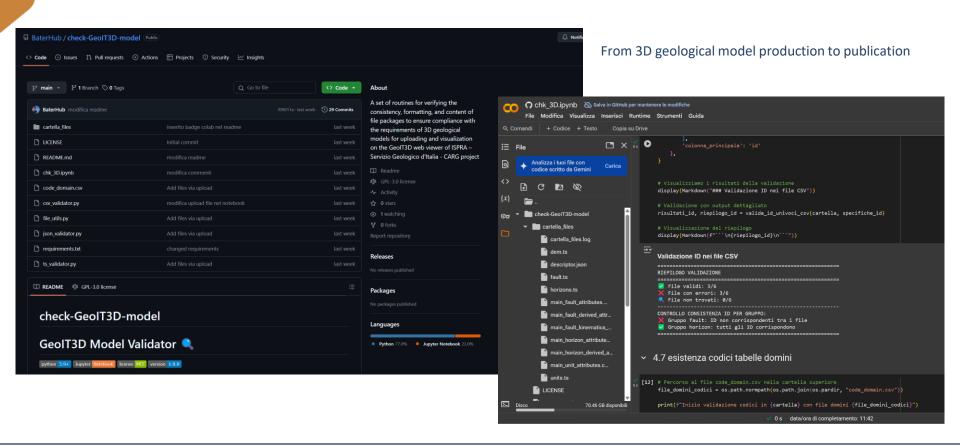








Automated consistency check



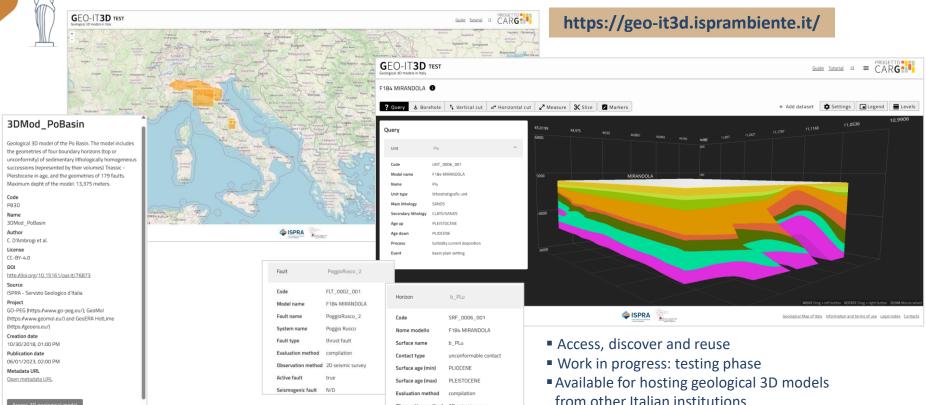








Data Access and reuse through 3D viewer

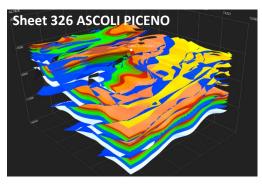


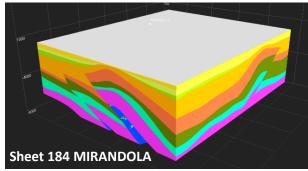


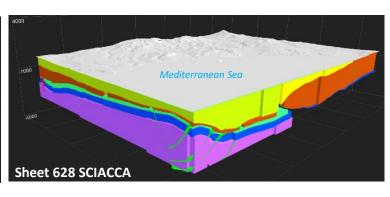




Observation method 2D seismic survey







This increased effort in the production of 3D general-purpose geological models aims to provide a solid foundation for applications such as urban geology, hydrostratigraphy, seismogenic faults, contaminated sites, and natural resources

SERVIZIO GEOLOGICO D'ITALIA



USERS







