

FORMAZIONE AGID – FORMEZ SULLA TRANSIZIONE DIGITALE DELLA PA

**Progetto Informazione e formazione per la transizione digitale della PA
nell'ambito del progetto «Italia Login – la casa del cittadino»**

(A valere sul PON Governance e Capacità Istituzionale 2014-2020)

Linee guida open data: focus su dati della ricerca, beni culturali ed esperienze transnazionali

Il progetto GO-PEG: esperienze transnazionali di produzione e pubblicazione di open geo data

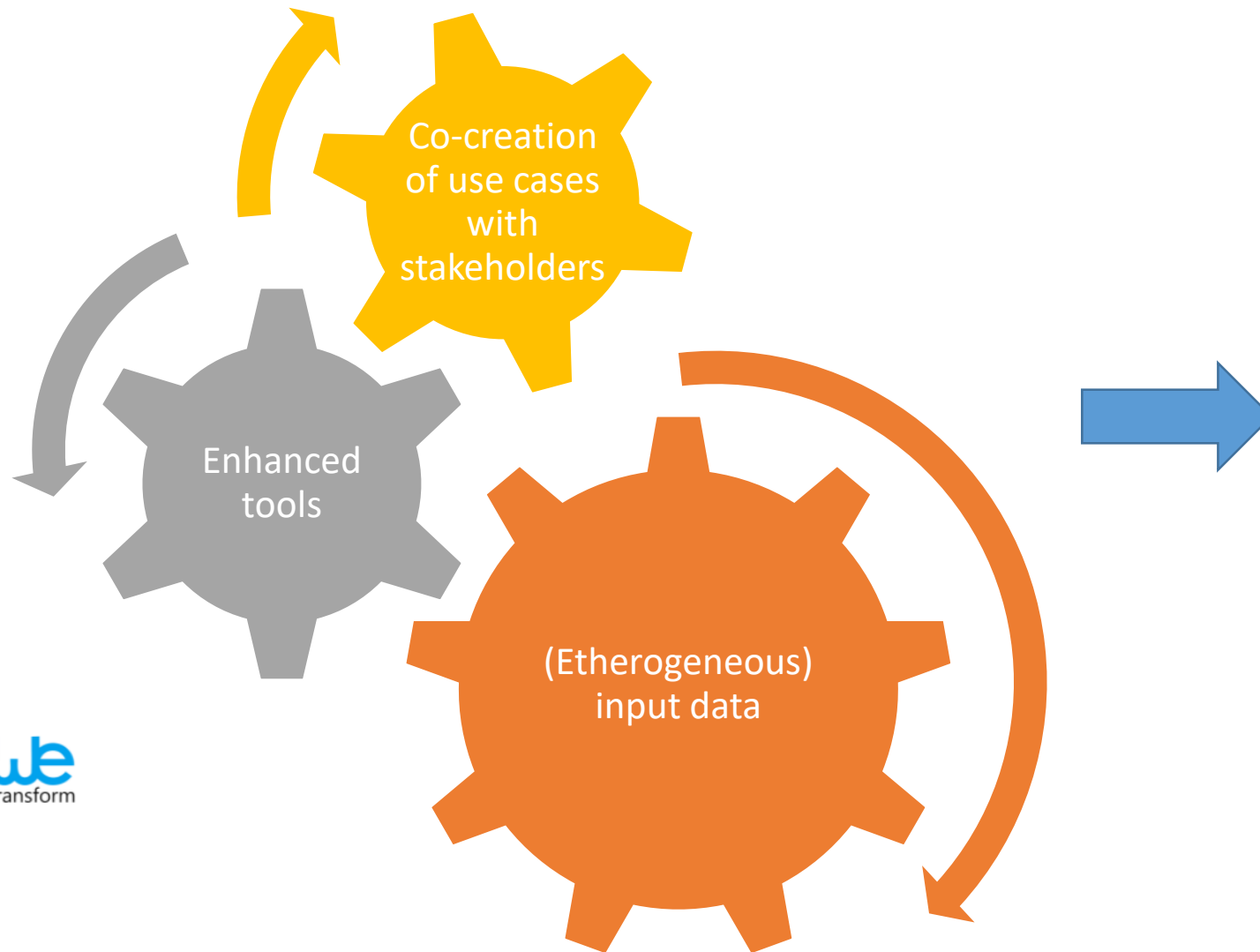
1 Giugno 2022

Giacomo Martirano
(Epsilon Italia)

INDICE

- Il progetto GO-PEG in breve
- Esperienze transnazionali di produzione e pubblicazione di open data a confronto

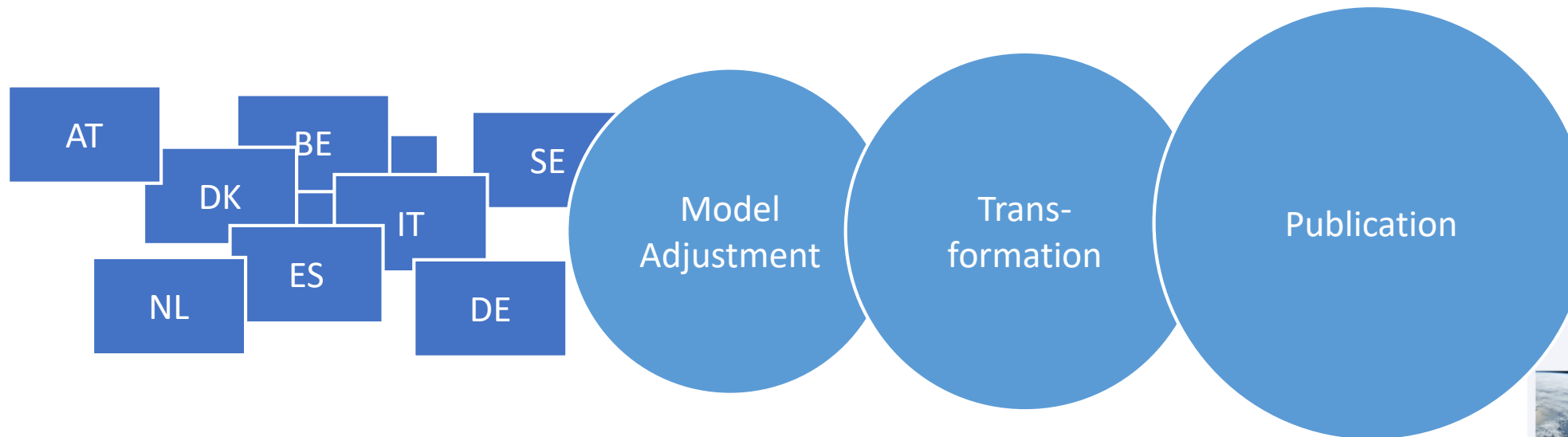
IL PROGETTO GO-PEG IN BREVE



www.go-peg.eu



IL PROGETTO GO-PEG IN BREVE



data.europa.eu

English (en) Search site content

Data Studies data.europa academy News Contact

The official portal for European data

80 Catalogues 36 Countries 1 157 022 Datasets

Search datasets

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DATA CATALOGUES ALL DATASETS EU INSTITUTIONS DATASETS

WS

18 December 2021

SEMIC on 8

Open Data Spaces

Discover which European countries are ready to use aggregated health data

Explore the new tool and report by the Open Data Institute

Read more...

Join the first EU Open Data Days!

EU OPEN DATA DAYS

Discover the data.europa academy training session on geospatial data!

This webinar provides tips and tricks on how to find geospatial data on data.europa.eu

Read more...

Follow the livestream to join the EU Open Data Days!

The first ever EU Open Data Days open on 23 Nov.

Read more...

Open Data Events

06/12/2021 - 10/12/2021

Internet Governance Forum

06/12/2021 - 08/12/2021

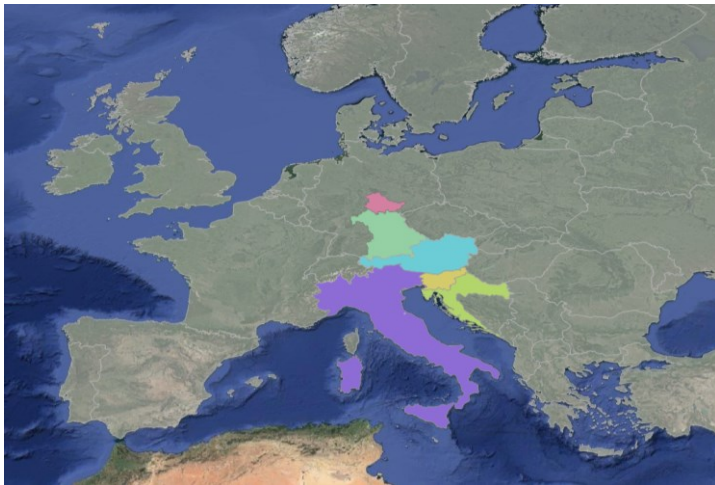
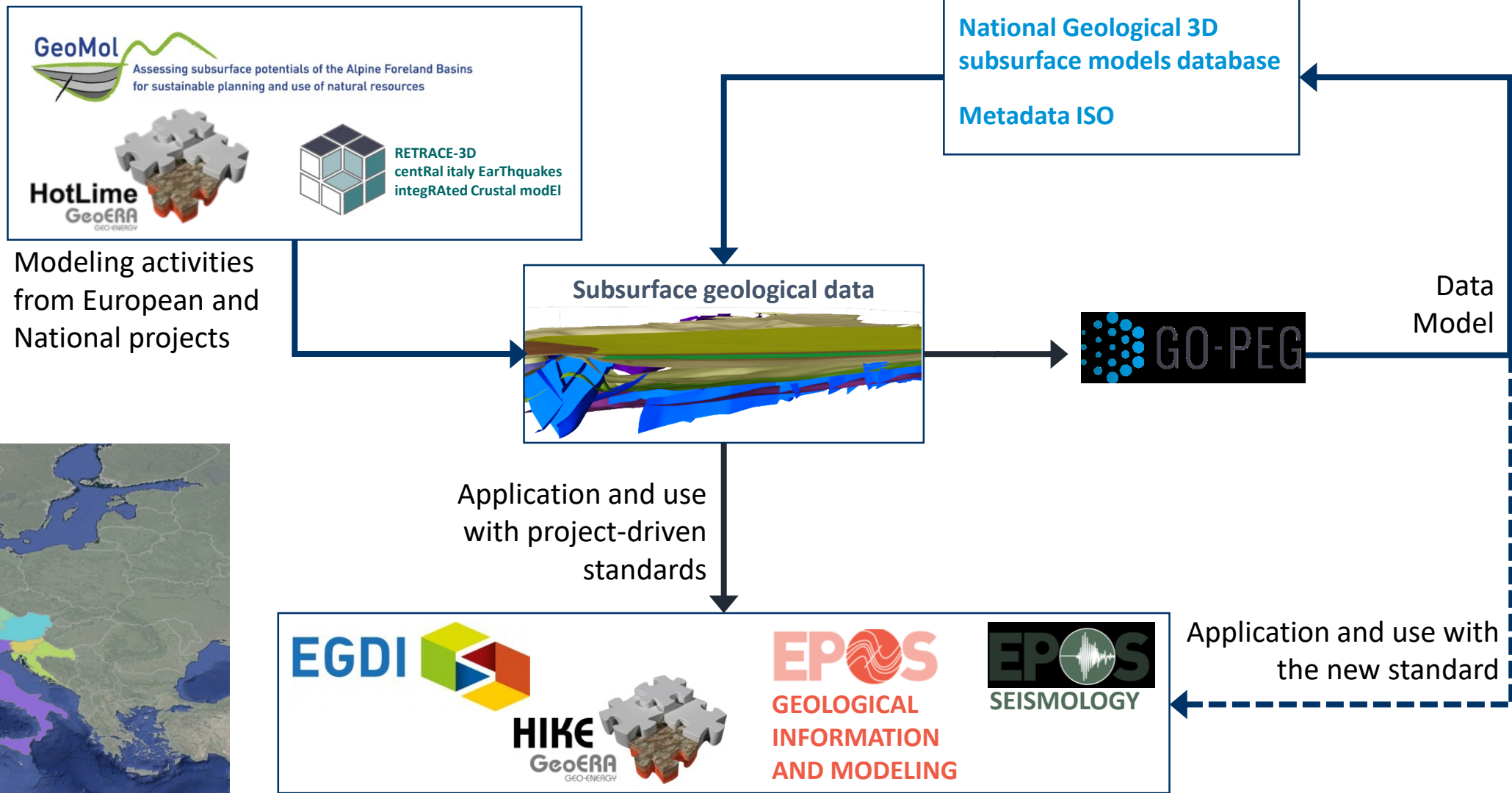
SEMIC 2021 - the Semantic Interoperability Conference

11/01/2022 - 14/01/2022

Neurohack - A competitive hackathon to promote brain health.



GO-DEPTH USE CASE



GO-DEPTH USE CASE

The image displays a QGIS 2.9.11 interface with a geological map of the Po Valley region. The map shows various geological units in different colors (green, red, purple) and is overlaid with a grid and isobaths. A 3D block diagram on the left illustrates the geological structure with labels for 'BOUNDARY', 'FAULT', and 'UNIT'. The diagram shows a cross-section of the earth's crust with a fault line and a boundary between units. The 3D view is labeled 'Unit in a Geologic Map' and 'BOUNDARY (x,y,z,t) + isobaths UNIT thickness = t'.

The QGIS interface includes a menu bar (Project, Edit, View, Layer, Settings, Plugins, Vector, Raster, Database, Web, Mesh, Processing, Help), a toolbar, and a Layers panel on the left. The Layers panel shows the following layers:

- Boundary
- CodeListProperties
- CompositionPart
- DefaultProperties
- GeologicEvent
- Composition
- GeologicUnit
- Isoline
- PL_u
- QM_u
- TE_u_east

Two attribute tables are open on the right side of the map:

Boundary Info - Feature Attributes

boundaryName	QM_u
contactType	unconformable_base
thickness	461.5
thickness_uom	m
depthASL	-440.3
depthASL_uom	m
Geologic Unit Name	QuaternarySuccession
Geologic Unit Identifier	hlu5_Q
Geologic Unit type	lithostratigraphicUnit
Lithology	sand
role	part of
Lithology2	siltstone
role	part of
eventProcess	sedimentaryProcess
olderNamedAge	Calabrian
youngerNamedAge	Holocene

Isoline - Feature Attributes

id	198
boundaryId	2
isolineValue	-500
isolineValue_uom	m
isolineType	isobath
boundaryName	QM_u

The status bar at the bottom shows the following information: Coordinate 1019269,5753200; Scale 1:1371257; Magnifier 100%; Rotation 0.0°; Render; EPSG:3034.

GO-DEPTH USE CASE – STATO ATTUALE

- Il dataset prodotto dallo use-case (attualmente disponibile solo per l'Italia ma in fase di produzione avanzata anche per l'Austria) è scaricabile (dall'infrastruttura cloud Epsilon Italia) in formato GeoPackage e GeoJSON tramite OGC API-Features
- Il relativo metadato è pubblicato sul catalogo ISPRA e, essendo relativo ad un dato sia geo che open, il dato risulta discoverable sia su RNDT che sul portale italiano degli open data e, soprattutto, su European Data Portal (data.europa.eu)

(Geo)portals	Issues under investigations
ISPRA Geoportal	Quick links to download data not working
Italian National Geoportal	Quick links “OGC Service” and “Download” not working
Italian National Open Data Portal	Mismatch between distribution format and download
European Data Portal	Links to download are in “Additional Information” section

RNDT – Visualizzazione metadati / Scheda Metadati

GE_3DMOD_POBASIN - DATASET

[Visualizza questa pagina nel portale RNDT](#)

INFORMATION ON METADATA

File Identifier: ispra_rm:GE_3DMod_PoBasin

Metadata Language: Italian

Metadata Character Set utf8

Parent ID: ispra_rm:GE_3DMod_PoBasin

Hierarchy level: Dataset

???catalog.mdParam.rndt.general.hierarchyLevelName Dataset

Metadata Response DISTRIBUTION

Organization

Role: Point Of

Contact Info:

E-mail: [✉](#)

Website:

Distribution Format:

Format Name geopackage+sqlite3

Format Version 3.2.1

Transfer Options:

URL: <http://cloud.epsilon-italia.it:8080/geoserver/ogc/features/collections/GO-PEG:Po-Plain-GU-Boundaries/items?f=application/x-gpkg&limit=1000>

Transfer Options:

URL: <http://cloud.epsilon-italia.it:8080/geoserver/ogc/features/collections/GO-PEG:Po-Plain-GU-Boundaries/items?f=application%2Fgeo%2Bjson&limit=1000>

Transfer Options:

URL: <http://cloud.epsilon-italia.it:8080/geoserver/ogc/features/api?f=application%2Fvnd.oai.openapi%2Bjson%3Bversion%3D3.0>

Metadata Date St

Standard name: Linee GUIDA RNDT

Standard version: 2.0

[GO-DEPTH metadata](#)

https://geodati.gov.it/geoportalRNDTPA/catalog/search/resource/details.page?uuid=ispra_rm%3AGE_3DMod_PoBasin

RNDT – Visualizzazione metadati

DATASET Aggiungi al carrello

GE_3DMOD_POBASIN - DATASET

The geological 3D model of the Po Basin includes geometry of four stratigraphic horizons (top or unconformity) bounding lithological homogeneous successions of sedimentary units, in the Triassic - Pleistocene time interval. Each stratigraph...

[Vedi dettagli Responsabile del dato e Punto di contatto](#) +

DETTAGLI ▾

APRI ▾

SERVIZI OGC ▾

Visualizza i dati in formato [HTML](#), [Json](#), [GeoRSS](#), [Atom](#).

Soluzione:
RNDT sta aggiungendo 'gpkg' alla lista di formati di download

Soluzione: RNDT potrebbe aggiungere 'OGC API-Features' nella codelist nazionale ProtocolValue, anche se è preferibile estendere direttamente la codelist INSPIRE

ProtocolValue codelist

```
<gmd:CI_OnlineResource>
  <gmd:linkage>
    <gmd:URL>
      http://cloud.epsilon-italia.it:8080/geoserver/ogc/features/collections/GO-PEG:Po-Plain-GU-Boundaries/items?f=application%2Fgeo%2Bjson&limit=1000
    </gmd:URL>
  </gmd:linkage>
  <gmd:protocol>
    <gmx:Anchor xlink:href="https://registry.geodati.gov.it/metadata-codelist/ProtocolValue/www-download">WWW:DOWNLOAD</gmx:Anchor>
  </gmd:protocol>
  <gmd:applicationProfile>
    <gmx:Anchor xlink:href="http://inspire.ec.europa.eu/metadata-codelist/SpatialDataServiceType/other">Altri servizi</gmx:Anchor>
  </gmd:applicationProfile>
  <gmd:description>
    <gmx:Anchor xlink:href="http://inspire.ec.europa.eu/metadata-codelist/OnLineDescriptionCode/accessPoint">Access Point</gmx:Anchor>
  </gmd:description>
</gmd:CI_OnlineResource>
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</gmd:MD_DigitalTransferOptions>
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  <gmd:onLine>
    <gmd:CI_OnlineResource>
      <gmd:linkage>
        <gmd:URL>
          http://cloud.epsilon-italia.it:8080/geoserver/ogc/features/api?f=application%2Fvnd.oai.openapi%2Bjson%3Bversion%3D3.0
        </gmd:URL>
      </gmd:linkage>
      <gmd:protocol>
        <gmx:Anchor xlink:href="https://registry.geodati.gov.it/metadata-codelist/ProtocolValue/www-download">OGC API - Features</gmx:Anchor>
      </gmd:protocol>
      <gmd:applicationProfile>
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      </gmd:applicationProfile>
      <gmd:description>
        <gmx:Anchor xlink:href="http://inspire.ec.europa.eu/metadata-codelist/OnLineDescriptionCode/accessPoint">Access Point</gmx:Anchor>
      </gmd:description>
    </gmd:CI_OnlineResource>
  </gmd:onLine>
</gmd:MD_DigitalTransferOptions>
```

Proposal for INSPIRE ProtocolValue codelist new value

INSPIRE-MIF / helpdesk-registry Public

Unwatch 22

<> Code Issues 18 Pull requests Actions Projects 1 Wiki Security Insights

Add a new item in the ProtocolValue register for OGC API-Features #32

New issue

Open AntoRot opened this issue on 7 Apr · 0 comments



AntoRot commented on 7 Apr



URI: <http://inspire.ec.europa.eu/metadata-codelist/ProtocolValue>

Motivation: [OGC API-Features as an INSPIRE download service](#) was endorsed as Good Practice. We propose to add an item in the Protocol Value register related to that OGC API-Features standard.

Proposed change: new proposed item:

- OGC API-Features
Register: <http://inspire.ec.europa.eu/metadata-codelist/ProtocolValue>
Label: OGC API-Features
URI: <http://www.opengis.net/def/interface/ogcapi-features>
External value: true

Change type: addition

Assignees

No one assigned

Labels

change proposal

Projects

Management of helpdesk-registry

Status: Todo

+2 more

Milestone

No milestone

Agenzia per l'Italia Digitale Avanzamento digitale Geodati

dati.gov.it
i dati aperti della pubblica amministrazione

Cerca nel sito

Dati Fare Open Data Monitoraggio Sviluppatori Scrivi alla redazione

Home / Dati / GE_3DMod_PoBasin - Dataset

GE_3DMod_PoBasin - Dataset

Titolare - Nome* Istituto Superiore per la Protezione e la Ricerca Ambientale	Titolare - Codice Ipa/P. Iva* ispra_rm
Editore	Editore - Codice Ipa/P.Iva

Descrizione

The geology unconformity Pleistocene thickness of the depth of dataset and peg.eu/ pro specifically, model to

DISTRIBUZIONI

GPKG Distribuzione - Formato GPKG
Descrizione: Distribuzione - Formato GPKG

Licenza - Nome*
Creative Commons Attribuzione 4.0 Internazionale (CC BY 4.0)

GO-DEPTH metadata

<https://dati.gov.it/view-dataset/dataset?id=c3a33a52-653d-4c37-a455-63741cb498b2>

Scarica GeoJSON

<http://cloud.epsilon-italia.it:8080/geoserver/ogc/features/collections/GO-PEG:Po-Plain-GU-Boundaries/items?f=application%2Fgeo%2Bjson&limit=1000>

GE_3DMod_PoBasin — Dataset



Updated:

The geological 3D model of the Po Basin includes geometry of four stratigraphic horizons (top or Unconformity) bounding lithological homogeneous successions of Sedimentary units, in the Triassic — Pleistocene time interval. Each stratigraphic horizon is supplemented by its isobaths. Where possible, the thickness of the succession above or below, respectively for basal unconformity and top, are provided with the depth of the surface. The lithology and age of each Sedimentary succession are also provided. This dataset and the related data model were obtained in the framework of the GO-PEG (<https://www.go-peg.eu/>) project, co-funded by the Connecting Europe Facility (CEF) of the European Commission. More specifically, this dataset is the output of the go-depth use case aiming to provide a methodology and a model to conceptualise, organise and deliver easy-to-use, high-quality, interoperable subsurface information for sustainable planning and use of natural resources. To this aim the data coming from European funded projects GeoMol (Alpine Space) Programme 2012-2015) and HotLime GeoERA HotLime (Horizon 2020, 2018-2021) has it was used. In view of data interoperability, the data model has been developed as extension of the INSPIRE Geology data model. The dataset is served through Apis conforming to the OGC API — Feature standard and is downloadable also in GeoPackage format, in this anticipating the application of the principles established by the Open Data Directive (Directive (EU) 2019/1024) regarding the sharing of the High Value Datasets. The 3D geological model of the Po Valley basin includes the geometry of four limit horizons (roof or discrepancy) of sequences of homogeneous litologicalmnete sedimentary units, in the range Triassic — Pleistocene. Each stratigraphic horizon is also described through isobate. Where possible, in addition to the absolute quota value, it is also provided the value of the thickness of the succession above; or below, respectively if it is a mismatch or roof. They come also described the lithology and age of each sedimentary succession. This data set and the related data model have been obtained within of the GO-PEG project (<https://www.go-peg.eu/>), co-financed by Connecting Europe Facility (CEF) of the European Commission. More specifically, this dataset is the output of the go-depth use case, which aims to provide a methodology and a model able to conceptualise, organise and provide information about easy to use, high quality and interoperable subsoil for the sustainable planning and use of natural resources. To this end are: data from European GeoMol projects (Alpine Space) used Programme 2012-2015) and GeoERA HotLime (Horizon 2020, 2018-2021). In order to promoting interoperability of data, the data model has been developed as extension of the INSPIRE Geology data model. The dataset is served via API OGC API — Feature compliant and can also be downloaded in format GeoPackage, anticipating in this the application of the principles established by Open Data Directive (Directive (EU) 2019/1024) on the sharing of High-value data set.

Distributions (0)

Additional Information

Landing Page

<http://cloud.epsilon-italia.it:8080/geoserver/ogc/features/collections/GO-P-...>
<http://cloud.epsilon-italia.it:8080/geoserver/ogc/features/collections/GO-P-...>
<http://cloud.epsilon-italia.it:8080/geoserver/ogc/features/api?f=applicatio...>

<http://cloud.epsilon-italia.it:8080/geoserver/ogc/features/collections/GO-PEG:Po-Plain-GU-Boundaries/items?f=application%2Fgeo%2Bjson&limit=1000>

<http://cloud.epsilon-italia.it:8080/geoserver/ogc/features/collections/GO-PEG:Po-Plain-GU-Boundaries/items?f=application/x-gpkg&limit=1000>

GO-DEPTH metadata

<https://data.europa.eu/data/datasets/isp-ra-rm-ge-3dmod-pobasin?locale=en>

Non vengono rilevate Distribuzioni!
I download link sono comunque visibili nella sezione “Additional Information”

UNA SERIE DI QUESTIONI APERTE SUI METADATI DEGLI HVD

- Come gestire i metadati di datasets multi-country?
- Chi si fa carico di pubblicare il metadato e dove?
- Come assicurare che tutti i dati prodotti da GO-PEG siano discoverable in EDP?

AUTOVALUZIONE SUL SODDISFACIMENTO DEI PRINCIPI FAIR

- Findable: il dato lo troviamo (più o meno facilmente) sia su data.europa.eu che su geodati.gov.it e dati.gov.it
- Accessible: Downloadable tramite OGC API-Features in due formati open e machine-readable (json e GeoPackage)
- Interoperable: adottato un data model comune per il dato sub-surface 3D, che, basato sull'estensione del modello Geology INSPIRE, oltre a candidarsi a diventare data model nazionale, può essere adottato come modello di riferimento anche dalla comunità internazionale
- Re-usable: licenza CC-BY 4.0, raccomandata dalle data policy

Grazie per l'attenzione!

Giacomo Martirano (Epsilon Italia)

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