

FAIRness assessment



Alejandro Guinea de Salas (Geograma), Juan Martin Pelegrina (Bilbomatica), Marc Olijslagers (KU Leuven), Thorsten Reitz (wetransform), Fabio Vinci (EPSIT), Anders Östman (Novogit)

Overview

- Setting the scene
 - Use cases overview
- FAIRness assessment
 - FAIR-Enough tool
 - MQA tool
- Discussion

POPImpact: Impact of Emergency Events in the Population

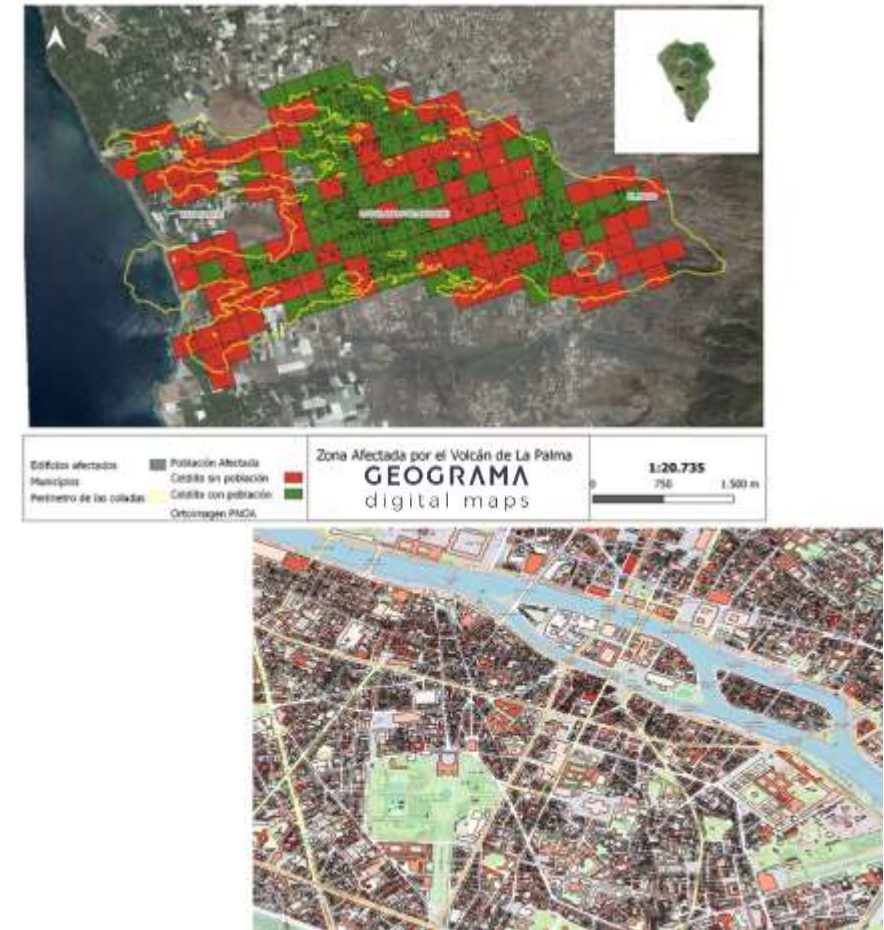
Aims to provide more accurate data on the population affected by an emergency by obtaining a **pan-European building layer** to which the **population has been assigned**.

A methodology based on **postGIS** and various **disaggregation methods** to know the population affected by an emergency. One or more methods can be chosen depending on the input data.

POPIMPACT metadata published in data.europa.eu



<https://data.europa.eu/data/datasets/es-gopeg-bu?locale=en>



POPImpact assessment

Metadata from national catalogue

POPIACT IDEE.es catalog



Catálogo de Datos y Servicios IDEE

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Building with population form Impact of Emergency Events in the Population (POPIACT), GO-PEG

Actualizado: hace 3 meses

Compartir en redes sociales

Descargas y enlaces

Access point	Acceso a...
WMS Building with population of GO-PEG's project http://img002.wondermap.cloudapp.azure.com/geoserver/Pyguy/actions?service=WMS&request=GetCapabilities	Acceso a...
WFS Building with population of GO-PEG's project http://img002.wondermap.cloudapp.azure.com/geoserver/Pyguy/actions?service=WFS&request=GetCapabilities	Acceso a...
View Service (OGC API) Pyguyproject http://img002.wondermap.cloudapp.azure.com/geoserver/pyguy/ows?%application%2Fjson	Acceso a...



Status: **Passed, manual checks required**

Started: 10/03/2022 13:02:04 GMT

Duration: 10 s

	Total	Count	Skipped	Failed	Warnings	Manual
Test suites	4	0	0	0	0	1
Test cases	11	0	0	0	0	1
Assertions	21	0	0	0	0	1

Show: **All** Level of detail: **All results**

Only failed Only manual Simplified Less information

- Conforms: Requirements for ISO/TC 19139:2007 based INSPIRE metadata records.
- Conformance Class 1: INSPIRE data sets and data set series baseline metadata.
- Conformance Class 2: INSPIRE data sets and data set series interoperability metadata.
- Conformance Class 2b: INSPIRE data sets and data set series metadata for Monitoring.

Report generated by ETF

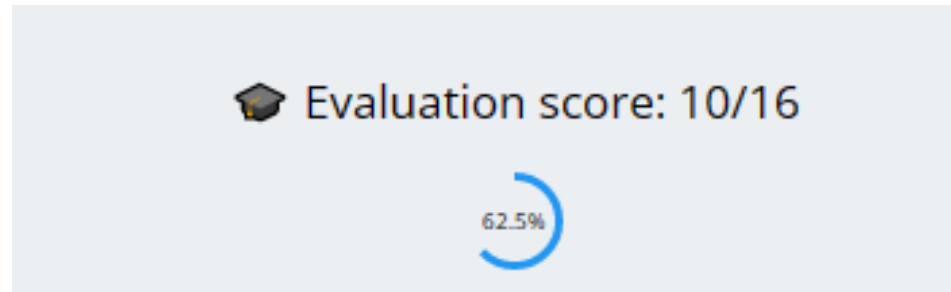
```

</gmd:resourceConstraints>
<gmd:resourceConstraints>
  <gmd:MD_LegalConstraints>
    <gmd:useConstraints>
      <gmd:MD_RestrictionCode codeList="http://standards.iso.org/iso/19139/resources/gmd/codeList.xml#MD_RestrictionCode" codeListValue="otherRestrictions">
        </gmd:useConstraints>
      </gmd:useConstraints>
      <gmd:otherConstraints>
        <gmx:Anchor xlink:href="https://creativecommons.org/licenses/by/4.0/">CC BY 4.0</gmx:Anchor>
      </gmd:otherConstraints>
    </gmd:MD_LegalConstraints>
  </gmd:resourceConstraints>
  
```

POPImpact assessment

RDF metadata from data.europa.eu

POPIMPACT-fair-enough



data.europa.eu - The official portal for European data

Home Datos Documentación Publicaciones data.europa academy Noticias y eventos Contacto

Reino Unido > Conjuntos de datos > Edificio con forma de población impacto de eventos de emergencia en la población (POPIACT), GO-PEG

Edificio con forma de población impacto de eventos de emergencia en la población (POPIACT), GO-PEG

IDEA

Conjunto de datos Calidad Conjunto de datos similares

Construcción con forma de población impacto de eventos de emergencia en la población (POPIACT) de GO-PEG (Generación de conjuntos de datos y servicios geoespaciales transfronterizos). El objetivo de la acción propuesta es proporcionar acceso a conjuntos de datos geoespaciales abiertos armonizados y sus metadatos correspondientes en áreas como el medio ambiente, la gestión de emergencias y desastres. GO-PEG es un proyecto cofinanciado por el Mecanismo «Conectar Europa» (MCE) de la Comisión Europea en el marco del instrumento CEF Telecom en el marco de la acción n.º 2018-EU-IA-POPIACT (Impacto de eventos de emergencia en la población) en el caso de uso del GO-PEG para obtener datos más

Idioma	Formato	Título	Fecha de actualización
Idioma	Formato	Título	Fecha de actualización
Idioma	Formato	Título	Fecha de actualización

<https://data.europa.eu/api/hub/repo/datasets/es-gopeg-bu.rdf?useNormalizedId=true>

Findable

- F1 - Resource identifier is persistent
- F1 - Resource metadata identifier is unique
- F2 - Metadata is grounded and machine-readable
- F2 - Metadata is structured
- F3 - Metadata identifier explicitly in metadata
- F4 - The resource is indexed in a searchable resource

Accessible

- A1.1 - Metadata uses an open free protocol for metadata retrieval
- A1.2 - Metadata authentication and authorization
- A2 - Metadata is persistent

Interoperable

- I1 - Metadata uses a formal semantic knowledge representation language
- I1 - Metadata uses a formal structured knowledge representation language
- I2 - Metadata uses FAIR Vocabularies registered in known repositories
- I2 - Metadata uses resolvable FAIR Vocabularies
- I3 - Metadata contains outward references

Reusable

- R1 - Metadata includes a License
- R1 - Metadata includes a standard License

POPImpact assessment

DCAT-AP validator

DCAT-AP validator

Content to validate:

Validate as:

Content syntax:

This service is powered by the Interoperability Test Bed, a conformance testing service offered by the European Commission's CXT (CXT) for projects involved in the delivery of cross-border public services. Find out more here.

Date:	2023-02-27T07:26:38.816Z
File name:	https://data.europa.eu/api/hub/repo/datasets/es-gopeg-bu.rdf?useNormalizedId=true
Validation type:	DCAT-AP version 1.2
Result:	FAILURE
Errors:	11
Warnings:	0
Messages:	0

- Value must be an instance of `dcterms:LinguisticSystem`
Location: [Focus node] - [http://data.europa.eu/88u/dataset/es-gopeg-bu] - [Result path] - [http://purl.org/dc/terms/language]
Test: [Value] - [http://publications.europa.eu/resource/authority/language/SPA]
- Value must be an instance of `skos:Concept`
Location: [Focus node] - [http://data.europa.eu/88u/dataset/es-gopeg-bu] - [Result path] - [http://www.w3.org/ns/dcat#theme]
Test: [Value] - [http://publications.europa.eu/resource/authority/data-theme/SOCI]
- Value must be an instance of `dcterms:LinguisticSystem`
Location: [Focus node] - [http://data.europa.eu/88u/dataset/es-gopeg-bu] - [Result path] - [http://purl.org/dc/terms/language]
Test: [Value] - [http://publications.europa.eu/resource/authority/language/ENG]
- Does not have value `spdx:checksumAlgorithm_sha1`
Location: [Result path] - [http://spdx.org/rdf/terms#algorithm]
- Value must be an instance of `skos:Concept`
Location: [Focus node] - [http://data.europa.eu/88u/dataset/es-gopeg-bu] - [Result path] - [http://www.w3.org/ns/dcat#theme]
Test: [Value] - [http://publications.europa.eu/resource/authority/data-theme/ECON]

- Value must be an instance of `skos:Concept`
Location: [Focus node] - [http://data.europa.eu/88u/dataset/es-gopeg-bu] - [Result path] - [http://www.w3.org/ns/dcat#theme]
Test: [Value] - [http://publications.europa.eu/resource/authority/data-theme/TECH]
- Value must be an instance of `skos:Concept`
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- Value must be an instance of `dcterms:Standard`
Location: [Focus node] - [http://data.europa.eu/88u/dataset/es-gopeg-bu] - [Result path] - [http://purl.org/dc/terms/conformsTo]
- Value must be an instance of `skos:Concept`
Location: [Focus node] - [http://data.europa.eu/88u/dataset/es-gopeg-bu] - [Result path] - [http://www.w3.org/ns/dcat#theme]
Test: [Value] - [http://eurovoc.europa.eu/100151]
- Value must be an instance of `dcterms:Standard`
Location: [Focus node] - [http://data.europa.eu/88u/dataset/es-gopeg-bu] - [Result path] - [http://purl.org/dc/terms/conformsTo]
- Value must be an instance of `skos:Concept`
Location: [Focus node] - [http://data.europa.eu/88u/dataset/es-gopeg-bu] - [Result path] - [http://www.w3.org/ns/dcat#theme]
Test: [Value] - [http://eurovoc.europa.eu/100160]

Wildfire

<http://csgs002.westeurope.cloudapp.azure.com/geoserver/web/wicket/bookmarkable/org.geoserver.web.demo.MapPreviewPage?3&filter=false>

Objective: Calculation of the Potential Fire Risk Index PFRI

Workflow defined in FME to calculate PFRI based on the methodology that take into account three input (Land cover, Physiography of the terrain and Bioclimate region)

Wildfire metadata published in data.europa.eu

data.europa.eu - The official portal for European data

Home Datasets Documentation Publications data.europa academy News & events Contact us

Home > Datasets > Estimation of Potential Fire Risk Index form PopWildfire, GO-PEG

Estimation of Potential Fire Risk Index form PopWildfire, GO-PEG

Dataset Quality Similar datasets

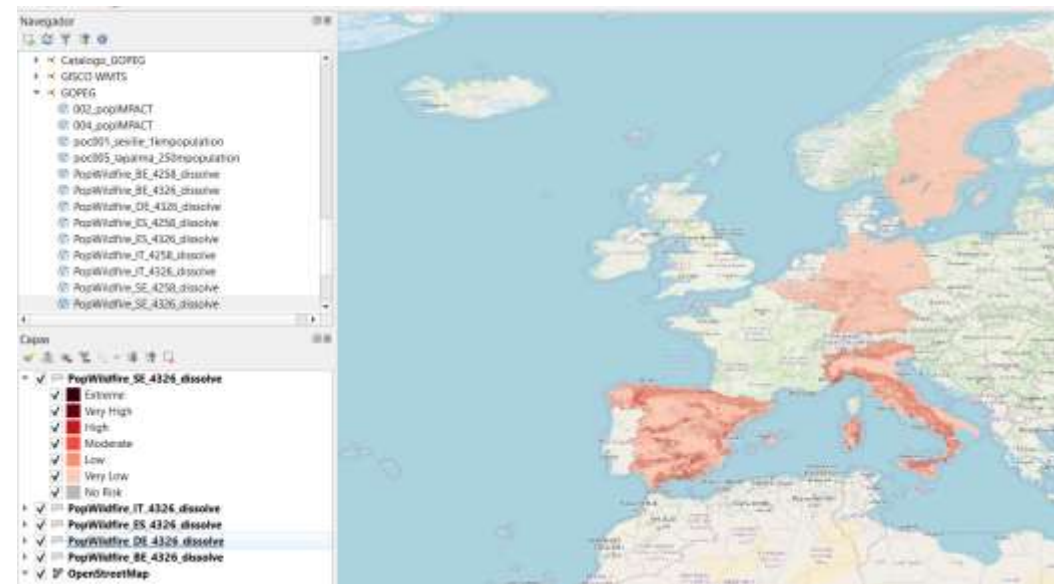
Provide access to high value datasets working in the areas of environment, emergency and disaster management. PopWildfire is the GO-PEG's (Observation of cross-border Pan-European Geospatial Datasets and Services) use case to provide information about potential risk index of pan-europe level

Language: Spanish English

Catalogue Record: Added to data.europa.eu: 25.11.2022 21:45 Updated on data.europa.eu: 20.11.2022 00:27

Spatial: Coordinates: [11.19.70, 27.83], [18.18, 69.06], [24.18, 69.06], [24.18, 27.83], [18.18, 27.83], [11.19.70, 27.83]] Topic: Polygon

<https://data.europa.eu/data/datasets/es-gopeg-uc?locale=en>



GeoServer

Previsualización de capas

Capa	Formato	Formato de salida	Formato de entrada	Formato de salida
003_popIMFACT	GeoTIFF	GeoTIFF	GeoTIFF	GeoTIFF
004_popIMFACT	GeoTIFF	GeoTIFF	GeoTIFF	GeoTIFF
005_popIMFACT	GeoTIFF	GeoTIFF	GeoTIFF	GeoTIFF
006_popIMFACT	GeoTIFF	GeoTIFF	GeoTIFF	GeoTIFF
007_popIMFACT	GeoTIFF	GeoTIFF	GeoTIFF	GeoTIFF
008_popIMFACT	GeoTIFF	GeoTIFF	GeoTIFF	GeoTIFF
009_popIMFACT	GeoTIFF	GeoTIFF	GeoTIFF	GeoTIFF
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099_popIMFACT	GeoTIFF	GeoTIFF	GeoTIFF	GeoTIFF
100_popIMFACT	GeoTIFF	GeoTIFF	GeoTIFF	GeoTIFF

Wildfire assessment

Report: <https://inspire.ec.europa.eu/validator/test-run/details.html?id=EID041fde5d-8c9c-4303-9408-5e176583ad82>

Data: <https://www.idee.es/csw-inspire-idee/srv/spa/catalog.search#/metadata/ES.GOPEG.UC>

<https://www.idee.es/csw-inspire-idee/srv/spa/catalog.search#/metadata/ES.GOPEG.UC>

Catálogo de Datos y Servicios IDEE

Esta página web es un catálogo de servicios y datos que se encuentra en el portal de datos y servicios de la IDEE. Se puede acceder a los datos y servicios de la IDEE a través de este portal.

Estimation of Potential Fire Risk Index from PispWildfire, GO-PEG

Provides access to high value datasets pointing at the areas of environment, emergency and disaster management. PispWildfire is the GO-PEG's (Generation of Geospatial Products and Services) web tool to provide information about potential fire index at geographical level.

Descargas y enlaces

Acceso punto
View Service (WMS) PispWildfire
http://pispwildfire.idee.es/arcgis/rest/services/GOPEG/GOPEG/MapServer/0
Report: https://inspire.ec.europa.eu/validator/test-run/details.html?id=EID041fde5d-8c9c-4303-9408-5e176583ad82

Acceso punto
View Service (WFS) PispWildfire
http://pispwildfire.idee.es/arcgis/rest/services/GOPEG/GOPEG/MapServer/0
Report: https://inspire.ec.europa.eu/validator/test-run/details.html?id=EID041fde5d-8c9c-4303-9408-5e176583ad82

INSPIRE Reference Validator - Test reports

Test run on 06-12-2023 with test suite: Conformance Class 2b: INSPIRE data sets and data set series metadata for Monitoring

Status	Passed	Failed	Checks Required
Test cases	1	0	0
Test suites	1	0	0
Errors	0	0	0

Test results: 1 Passed, 0 Failed, 0 Checks Required

Test suites: 1 Passed, 0 Failed, 0 Checks Required

Errors: 0 Passed, 0 Failed, 0 Checks Required

Conformance Class 2b: INSPIRE data sets and data set series metadata for Monitoring

Report generated by ETE

Wildfire assessment

Report: <https://fair-enough.semanticscience.org/evaluations/2b7fbcc3006e40569f503fea7c29e7dda4d4fe8f>


Data: <https://data.europa.eu/api/hub/repo/datasets/es-gopeg-uc.rdf?useNormalizedId=true>

 Findable


-  F1 - Resource identifier is persistent
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-  F2 - Metadata is grounded and machine-readable
-  F2 - Metadata is structured
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 Accessible


-  A1.1 - Metadata uses an open free protocol for metadata retrieval
-  A1.2 - Metadata authentication and authorization
-  A2 - Metadata is persistent

 Evaluation score: 10/16



 Interoperable

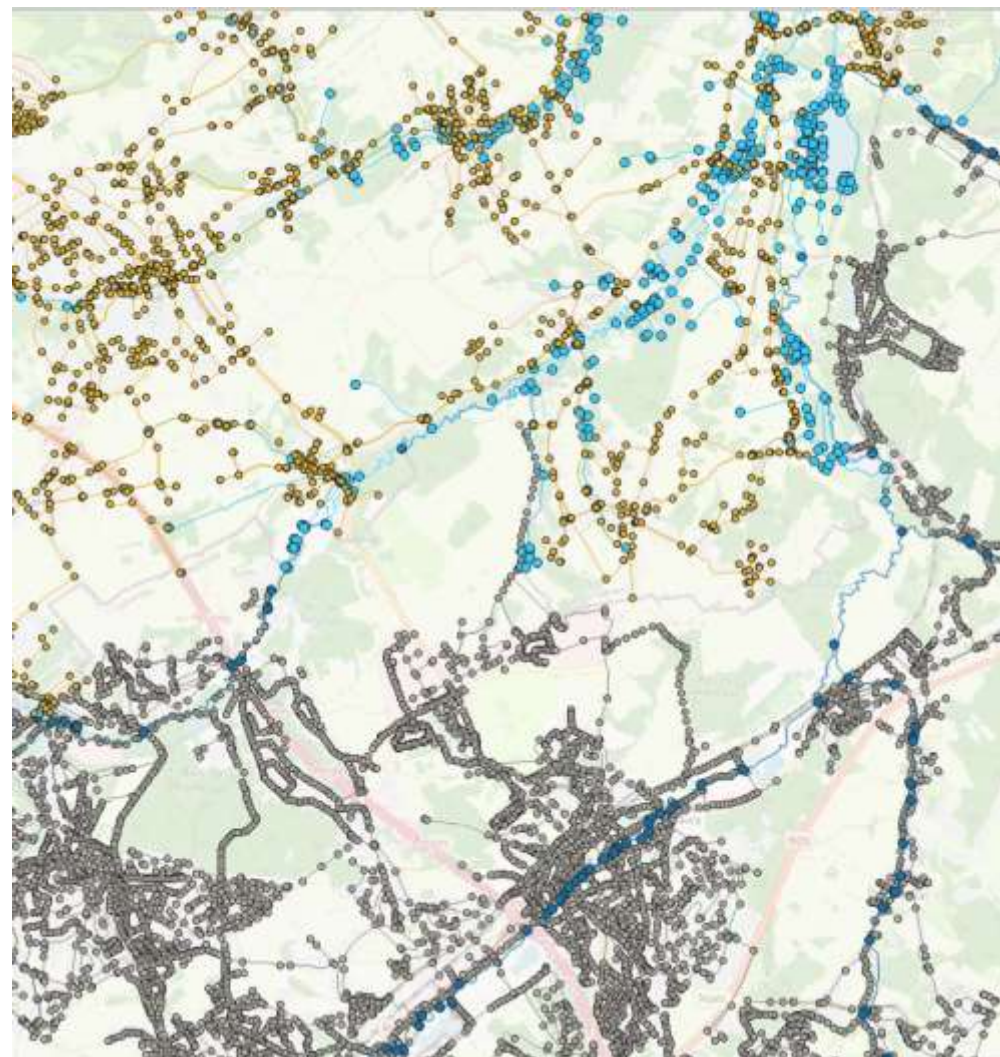
-  I1 - Metadata uses a formal semantic knowledge representation language
-  I1 - Metadata uses a formal structured knowledge representation language
-  I2 - Metadata uses FAIR Vocabularies registered in known repositories
-  I2 - Metadata uses resolvable FAIR Vocabularies
-  I3 - Metadata contains outward references

 Reusable

-  R1 - Metadata includes a License
-  R1 - Metadata includes a standard License

TRACING

- [BE-GOOD Graph-Tracing-Engine](#)
- Node-edge network combining sewer and surface water data
- Possible sources and affected locations linked to the network
- INSPIRE Hydro-Network and Utility Network (extended)
- INSPIRE gpkg encoding



TRACING assessment

Not published yet, expected result similar to source dataset:

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Accessibility							
Download URL	100%	Most frequent accessURL	n/a	Most frequent download	200		
Reusability							
Access restrictions	true	License information	100%	Access restrictions vocabulary	true		
Publisher	false	Contact point	true				
Contextuality							
File size	0%	Rights	100%	Modification date	true		
		Modification date	0%				
Findability							
Keyword usage	true	Categories	true	Geo search	false		
		Time based search	true				
Interoperability							
DCAT-AP compliance	false	Format	92%	Media type	77%		
		Format / Media type frequency	77%				

TRACING assessment

- Problems with recognising identifiers

- In INSPIRE MD:

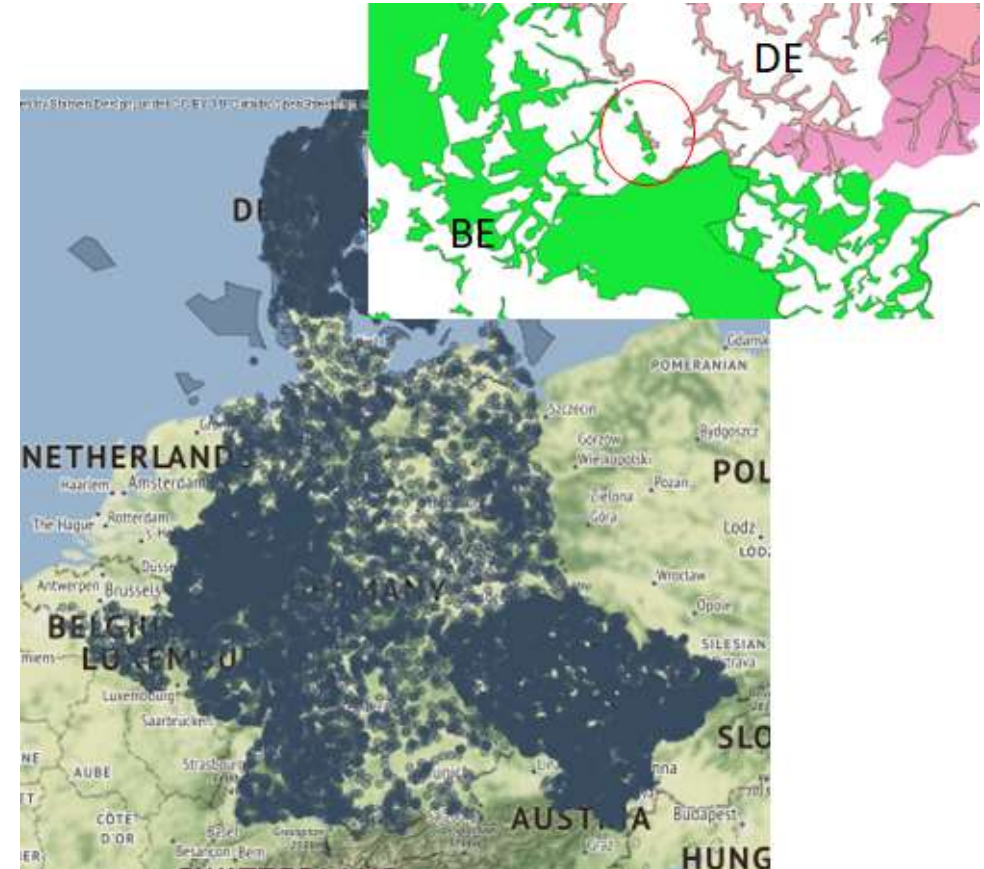
```
<gmd:identifier>
  <gmd:MD_Identifier>
    <gmd:code>
      <gco:CharacterString>9d8f9dcd-e307-4226-a8e1-bd83ea01f589</gco:CharacterString>
    </gmd:code>
  </gmd:MD_Identifier>
</gmd:identifier>
```

- Flemish model license not recognised

```
< dct:license>
  < dct:LicenseDocument rdf:about="http://data.vlaanderen.be/id/licentie/modellicentie-gratis-hergebruik/v1.0">
    < dct:type rdf:resource="http://purl.org/adms/licencetype/Attribution"/>
    < dct:title>Vlaamse Open Data licentie gratis hergebruik</dct:title>
  </dct:LicenseDocument>
</dct:license>
```


fAIRport

- No-Fly zones for UAVs derived from cross-border INSPIRE data, using the INSPIRE AM target schema
- Further datasets derived from other sources not yet published
- [fAIRport metadata DEE](#)
- [fAIRport metadata GDI-DE](#)



fAIRport assessments

Evaluation score: 11/16

Findable

- F1 - Resource identifier is persistent
- F1 - Resource metadata identifier is unique
- F2 - Metadata is grounded and machine-readable
- F2 - Metadata is structured
- F3 - Metadata identifier explicitly in metadata
- F4 - The resource is indexed in a searchable resource

Accessible

- A1.1 - Metadata uses an open free protocol for metadata retrieval
- A1.2 - Metadata authentication and authorization
- A2 - Metadata is persistent

Interoperable

- I1 - Metadata uses a formal semantic knowledge representation language
- I1 - Metadata uses a formal structured knowledge representation language
- I2 - Metadata uses FAIR vocabularies registered in known repositories
- I2 - Metadata uses resolvable FAIR Vocabularies
- I5 - Metadata contains outward references

Reusable

- R1 - Metadata includes a license
- R1 - Metadata includes a standard license

Metadata quality

The Metadata Quality Assurance is intended to help data providers and data portals to check their metadata against various indicators. For information on which metrics we use for indicator measurements, please have a look at our methodology page

Accessibility

Download URL 100% Most frequent access URL 200 Most frequent download 200

Reusability

Access restrictions true License information 100% Access restrictions vocab false Contact point true
Publisher true

Contextuality

File size 0% Rights 0% Modification date true Modification date 100%

Findability

Keyword usage true Categories true Geo search true Time based search false

Interoperability

DCAT-AP compliance false Format 100% Media type 0% Format / Media type fro 0%

fAIRport discussion

- Since the fAIRport datasets are also published with INSPIRE compliant ISO 19115/19139 Metadata, the same issues pertain:
 - Issues with recognising the present unique, persistent and resolvable identifiers
 - German GovData license not recognised?

```
<gmd:fileIdentifier>
  <gco:CharacterString>73b4aa43-6e9d-489e-bb2e-4b86cfd53617</gco:CharacterString>
</gmd:fileIdentifier>

<gmd:identifier>
  <gmd:MD_Identifier>
    <gmd:code>
      <gco:CharacterString>
        https://registry.gdi-de.org/id/de.bund.dfs.tn-a/769c428b-b527-4b44-b911-2dd847f65ce7
      </gco:CharacterString>
    </gmd:code>
  </gmd:MD_Identifier>
</gmd:identifier>

<gmd:resourceConstraints>
  <gmd:MD_LegalConstraints>
    <gmd:accessConstraints>
      <gmd:MD_RestrictionCode codeList="https://standards.iso.org/iso/19139/resources/gmx/Codelist.xml#MD_RestrictionCode" codeListValue="otherRestrictions">otherRestrictions</gmd:MD_RestrictionCode>
    </gmd:accessConstraints>
    <gmd:otherConstraints>
      <gmx:Anchor xlink:href="http://inspire.ec.europa.eu/metadata-codelist/LimitationsOnPublicAccess/isoLimitations">no limitations to public access</gmx:Anchor>
    </gmd:otherConstraints>
  </gmd:MD_LegalConstraints>
  <gmd:resourceConstraints>
    <gmd:MD_LegalConstraints>
      <gmd:useConstraints>
        <gmd:MD_RestrictionCode codeList="https://standards.iso.org/iso/19139/resources/gmx/Codelist.xml#MD_RestrictionCode" codeListValue="otherRestrictions">otherRestrictions</gmd:MD_RestrictionCode>
      </gmd:useConstraints>
      <gmd:otherConstraints>
        <gmx:Anchor xlink:href="http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown">Bedingungen unbekannt</gmx:Anchor>
      </gmd:otherConstraints>
    </gmd:MD_LegalConstraints>
  </gmd:resourceConstraints>
  <gmd:MD_LegalConstraints>
    <gmd:useLimitation>
      <gco:CharacterString>Nutzungsbedingungen: Not for navigation purposes.</gco:CharacterString>
    </gmd:useLimitation>
  </gmd:MD_LegalConstraints>
</gmd:resourceConstraints>
```

GO-DEPTH

Goal: to provide easy-to-use, interoperable subsurface data using:

- INSPIRE Geology (extended model)
- INSPIRE GeoPackage encoding
- OGC API Features services

GO-DEPTH metadata published in data.europa

data.europa.eu - The official portal for European data

Home Datasets Documentation Publications data.europa academy News & events Contact us

Home > Datasets > GE_3DMod_PoBasin — Dataset

Dataset **GE_3DMod_PoBasin — Dataset**

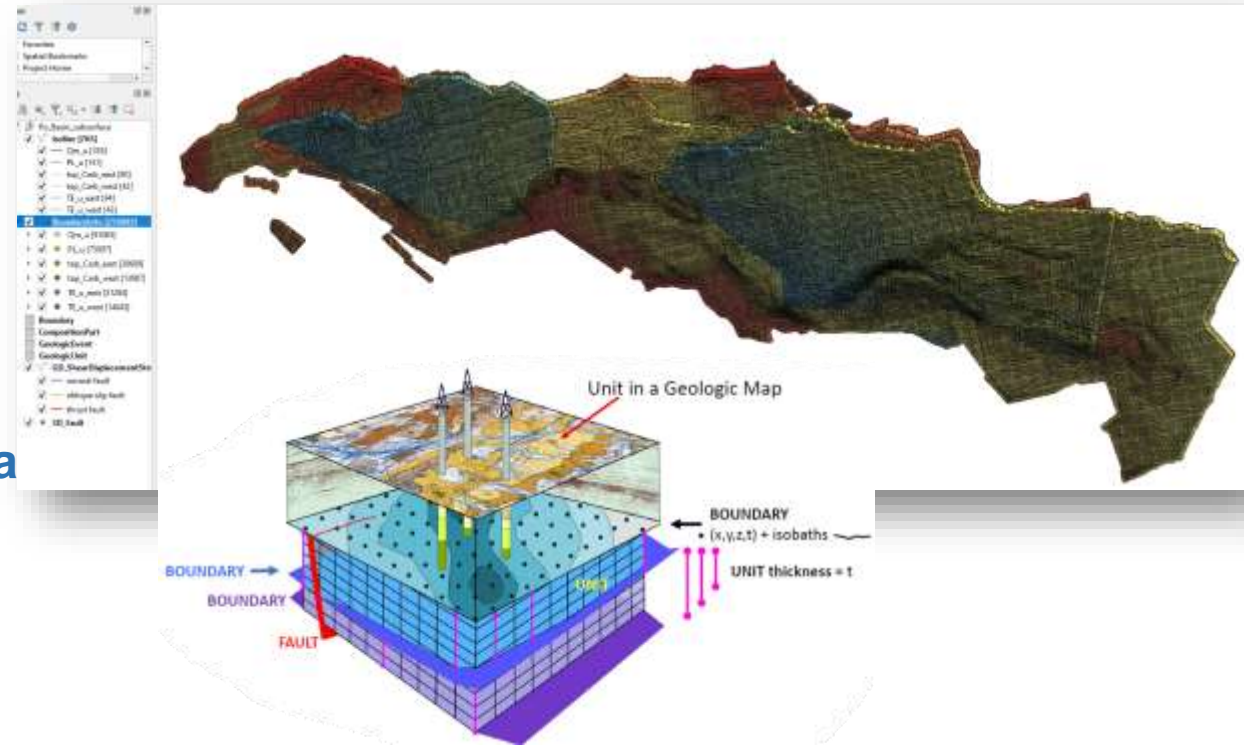
Italian Catalogue of metadata for Spatial Data

Dataset **Quality** **Similar datasets**

The geological 3D model of the Po Basin includes the geometry of four stratigraphic horizons (top or unconformity) bounding lithological homogeneous successions of sedimentary units, in the Triassic — Pleistocene time interval, and 179 fault geometries. Each stratigraphic horizon is accompanied by its isobaths. Where available, the

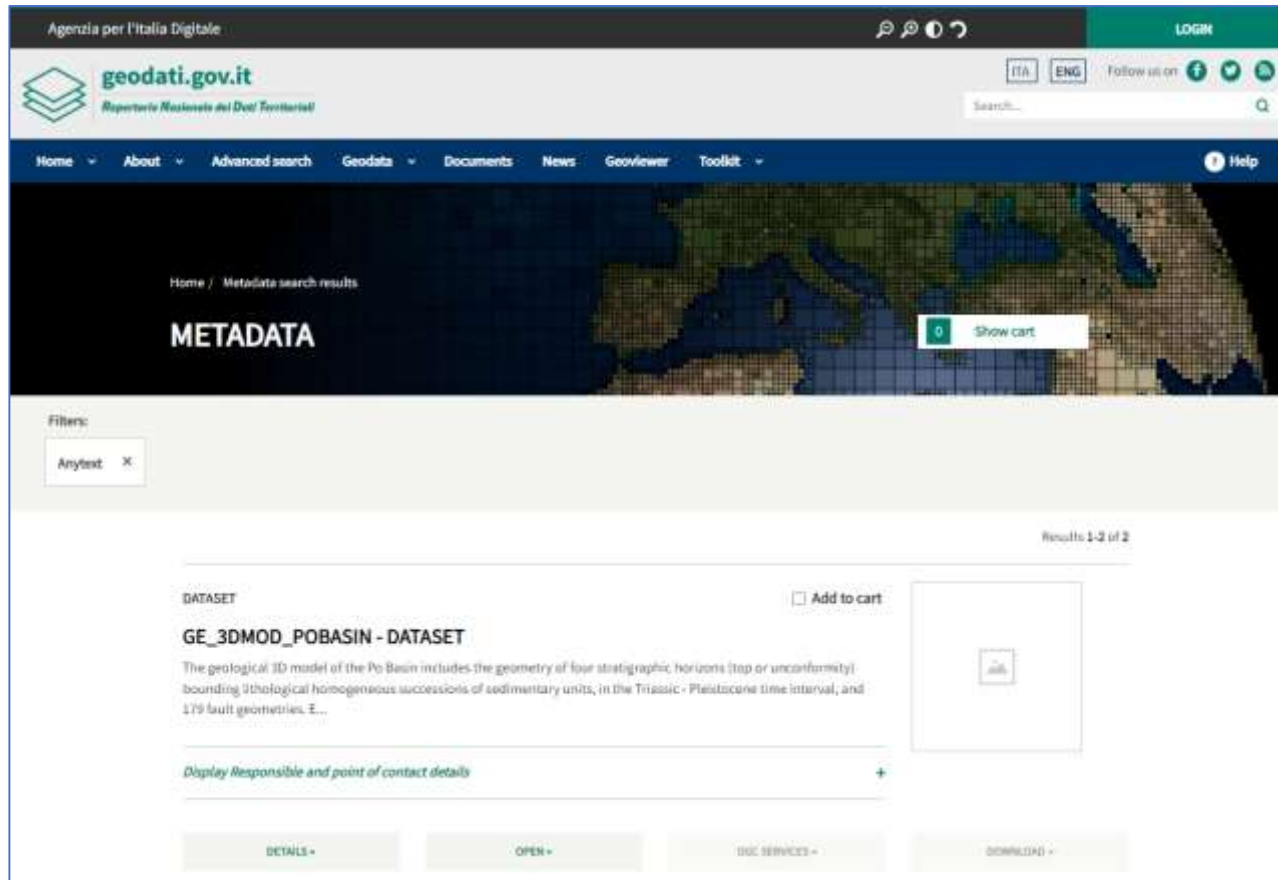
Landing Page <http://ckcloud.epiclon-italia.it:8080/geoserver/ogc/features/collect/area/GO-DEPTH>

https://data.europa.eu/data/datasets/ispra_rm-ge_3dmod_pobasin_dt?locale=en

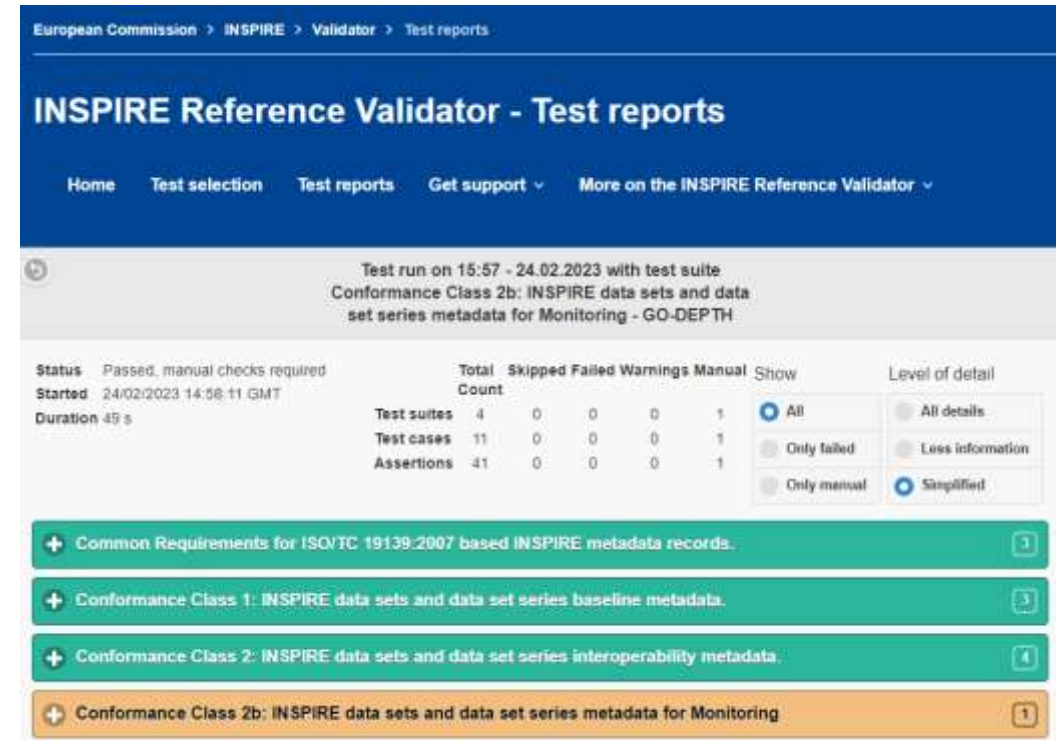


GO-DEPTH assessment

INSPIRE metadata in the national catalogue



The screenshot shows the geodati.gov.it website interface. At the top, there is a header with the logo and navigation links. Below the header, a map of Italy is displayed with a search bar and a 'Show cart' button. The main content area shows the search results for the dataset 'GE_3DMod_POBASIN - DATASET'. The dataset description states: 'The geological 3D model of the Po Basin includes the geometry of four stratigraphic horizons (top or unconformity) bounding lithological homogeneous successions of sedimentary units, in the Triassic - Pleistocene time interval, and 179 fault geometries, E...'. There are buttons for 'Add to cart', 'Details', 'Open', 'Doc services', and 'Download'.



The screenshot shows the INSPIRE Reference Validator - Test reports page. The page displays the test results for the dataset 'GE_3DMod_POBASIN - DATASET'. The test run was performed on 15:57 - 24.02.2023 with the test suite 'Conformance Class 2b: INSPIRE data sets and data set series metadata for Monitoring - GO-DEPTH'. The status is 'Passed, manual checks required'. The test results table shows the following counts:

	Total Count	Skipped	Failed	Warnings	Manual
Test suites	4	0	0	0	1
Test cases	11	0	0	0	1
Assertions	41	0	0	0	1

The page also includes a list of test suites and their corresponding counts:

- Common Requirements for ISO/TC 19139:2007 based INSPIRE metadata records. (1)
- Conformance Class 1: INSPIRE data sets and data set series baseline metadata. (3)
- Conformance Class 2: INSPIRE data sets and data set series interoperability metadata. (4)
- Conformance Class 2b: INSPIRE data sets and data set series metadata for Monitoring (1)

https://geodati.gov.it/geoportale/visualizzazione-metadati/scheda-metadati/?uuid=ispra_rm:GE_3DMod_PoBasin_DT

GO-DEPTH assessment

RDF metadata from data.europa.eu

<https://fair-enough.semanticscience.org/evaluations/fc460a58261d7c0b67cd199e61b520fecfa6d0aa>

The screenshot shows a web interface for assessing FAIR criteria. It is divided into four main sections: Findable (blue), Accessible (orange), Interoperable (green), and Reusable (purple). Each section contains a list of criteria with their status (pass/fail) and a brief description.

- Findable**
 - F1 - Resource identifier is persistent (Pass)
 - F1 - Resource metadata identifier is unique (Pass)
 - F2 - Metadata is grounded and machine-readable (Pass)
 - F2 - Metadata is structured (Pass)
 - F3 - Metadata identifier explicitly in metadata (Fail)
 - F4 - The resource is indexed in a searchable resource (Fail)
- Accessible**
 - A1.1 - Metadata uses an open free protocol for metadata retrieval (Pass)
 - A1.2 - Metadata authentication and authorization (Pass)
 - A2 - Metadata is persistent (Fail)
- Interoperable**
 - I1 - Metadata uses a formal semantic knowledge representation language (Pass)
 - I1 - Metadata uses a formal structured knowledge representation language (Pass)
 - I2 - Metadata uses FAIR vocabularies registered in known repositories (Pass)
 - I2 - Metadata uses applicable FAIR vocabularies (Pass)
 - I3 - Metadata contains outward references (Pass)
- Reusable**
 - R1 - Metadata includes a license (Fail)
 - R1 - Metadata includes a standard license (Fail)

https://data.europa.eu/api/hub/repo/datasets/ispra_rm-ge_3dmod_pobasin_dt.rdf?useNormalizedId=true [↗](#)

Identifier of this evaluation: <https://w3id.org/fair-enough/evaluations/fc460a58261d7c0b67cd199e61b520fecfa6d0aa>

Evaluated in 15s with the [fair-enough-metadata](#) collection on the 2023-02-22

See other evaluations for https://data.europa.eu/api/hub/repo/datasets/ispra_rm-ge_3dmod_pobasin_dt.rdf?useNormalizedId=true

 Evaluation score: 10/16



FAIRness Assessment results

Use cases obtained very similar results

- Starting from 100% valid INSPIRE (ISO 19139-based) metadata
- Running the FAIR-Enough tool on RDF metadata

Common considerations in the next slides

Results of the FAIR-Enough assessment

FAIR	Metrics tests		Issues
Accessible	A2_1M	Metadata is persistent	N/A
Findable	F1_2M	Resource identifier is persistent	The unique identifier of the metadata resource is not persistent and it is not contained in the metadata itself.
	F3_1M	Metadata identifier explicitly in metadata	
	F4_1M	The resource is indexed in a searchable resource	The resource is not indexed in search engines: DuckDuckGo search engine, Google custom search API and Bing search engine.
Reusable	R1_1M	Metadata includes a License	This information is lost in the transformation between INSPIRE Metadata to Geo-DCAT-AP, made by data.europa.eu.
	R1_2M	Metadata includes a standard License	

Results of the FAIR-Enough assessment: Further investigations

```
<gmd:resourceConstraints>
  <gmd:MD_LegalConstraints>
    <gmd:useConstraints>
      <gmd:MD_RestrictionCode codeList="http://standards.iso.org/iso/19139/resources/gmxCodeLists.xml#MD_RestrictionCode"
        codeListValue="otherRestrictions">otherRestrictions</gmd:MD_RestrictionCode>
    </gmd:useConstraints>
    <gmd:otherConstraints>
      <gco:CharacterString>https://creativecommons.org/licenses/by/4.0/</gco:CharacterString>
    </gmd:otherConstraints>
  </gmd:MD_LegalConstraints>
</gmd:resourceConstraints>
```

```
<gmd:MD_LegalConstraints>
  <gmd:useConstraints>
    <gmd:MD_RestrictionCode codeList="http://standards.iso.org/iso/19139/resources/gmxCodeLists.xml#MD_RestrictionCode"
      codeListValue="otherRestrictions"/>
  </gmd:useConstraints>
  <gmd:otherConstraints>
    <gmx:Anchor xlink:href="https://creativecommons.org/licenses/by/4.0/">CC BY 4.0</gmx:Anchor>
  </gmd:otherConstraints>
</gmd:MD_LegalConstraints>
```

GeoDCAT-AP

In [DCAT-AP-20200608], licensing information is specified on (a) data catalogues (services) and on (b) the distribution(s) of a dataset, and not on the dataset itself. The principle is that different dataset distributions may be associated with different licensing terms. Moreover, [DCAT-AP-20200608] recommends the use of `dct:accessRights` for specifying access conditions.

Based on this, GeoDCAT-AP specifies use and access limitations by using, respectively, `dct:license` and `dct:accessRights`. These properties take as value the URI of the use / access limitations, when available.

```
[ ] dcat:distribution [ a dcat:Distribution ;
  dct:license <https://creativecommons.org/licenses/by/4.0/> ;
```

Results of the FAIR-Enough assessment: Further investigations

In INSPIRE, this element, quoting, “defines the link(s) to the resource and/or the link to additional information about the resource”. [VOCAB-DCAT-2] has a property, namely, `dcat:landingPage`, having exactly the same purpose.

Based on this, the mappings of element “resource locator” for data sets and data set series will vary depending on the function code (when available), based on the following table.

ISO 19115 – CI_OnlineFunctionCode	Property	Domain	Range
(not provided)	<code>dcat:landingPage</code>	<code>dcat:Dataset</code>	<code>foaf:Document</code>
download	<code>dcat:accessURL</code>	<code>dcat:Dataset</code>	<code>dcat:Distribution</code>
Information	<code>foaf:page</code>	<code>dcat:Dataset</code>	<code>dcat:Distribution</code>

<pre> <gmd:transferOptions> <gmd:MD_DigitalTransferOptions> <gmd:online> <gmd:CI_OnlineResource> <gmd:linkage> <gmd:URL>https://geoserver.epsilon-italia.it/geoserver/go-peg/wfs?service=WFS&version=2.0.0&request=GetCapabilities"/> </gmd:linkage> <gmd:protocol> <gmx:Anchor xlink:href="http://www.opengis.net/def/serviceType/ogc/wfs">OGC </gmd:protocol> <gmd:applicationProfile> <gmx:Anchor xlink:href="http://inspire.ec.europa.eu/metadata-codelist/SpatialDataServiceType/download">download</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:function> <gmd:CI_OnlineFunctionCode codeList="http://standards.iso.org/iso/19139/resources/gmxCodeLists.xml#CI_OnlineFunctionCode" codeListValue="download">download</gmd:CI_OnlineFunctionCode> </gmd:function> </gmd:CI_OnlineResource> </gmd:online> </gmd:MD_DigitalTransferOptions> </gmd:transferOptions> </pre>	<pre> <dcat:distribution> <dcat:Distribution> <dcat:accessURL> <rdf:resource="https://geoserver.epsilon-italia.it/geoserver/go-peg/wfs?service=WFS&version=2.0.0&request=GetCapabilities"/> </dcat:accessURL> <dct:rights> <dct:RightsStatement> <rdfs:label>otherRestrictions</rdfs:label> </dct:RightsStatement> </dct:rights> <dct:rights rdf:resource="http://inspire.ec.europa.eu/metadata-codelist/LimitationsOnPublicAccess/noLimitations"/> </dcat:Distribution> </dcat:distribution> </pre>
---	--

Results of the FAIR-Enough assessment: Further investigations

GeoDCAT-AP_IT metadata from national catalogue

DATASET

GE_3DMOD_POBASIN - DATASET

The geological 3D model of the Po Basin includes the geometry of four stratigraphic units, the geometry of 179 fault geometries. E...

[Display Responsible and point of contact details](#)

DETAILS ▾

OPEN ▾

Metadata

Website

XML-Metadata

GeoDCAT-AP_IT

OWNLOAD SERVICE

```
<dcatapit:Distribution xmlns:dcatapit="http://dati.gov.it/onto/dcatapit#"
  rdf:about="https://geodati.gov.it/resource/distribution/ispra_rm:GE_3DMod_PoBasin_DT/GML-1">
  <rdf:type rdf:resource="http://www.w3.org/ns/dcat#Distribution"/>
  <dct:title xmlns:dct="http://purl.org/dc/terms/" xml:lang="it">Distribuzione - Formato GML</dct:title>
  <dct:description xmlns:dct="http://purl.org/dc/terms/" xml:lang="it">Distribuzione - Formato GML</dct:description>
  <dct:format xmlns:dct="http://purl.org/dc/terms/"
    rdf:resource="http://publications.europa.eu/resource/authority/file-type/GML"/>
  <dcat:accessURL xmlns:dcat="http://www.w3.org/ns/dcat#"
    rdf:resource="http://cloud.epsilon-italia.it:8080/geoserver/ogc/features/collections/GO-PEG:Po-Plain-GU-Boundaries?"/>
  <dct:license xmlns:dct="http://purl.org/dc/terms/"
    <dcatapit:LicenseDocument rdf:about="https://creativecommons.org/licenses/by/4.0/"
      <rdf:type rdf:resource="dct:LicenseDocument"/>
      <dct:type rdf:resource="http://purl.org/adms/licencetype/Attribution"/>
      <foaf:name xmlns:foaf="http://xmlns.com/foaf/0.1/">Creative Commons Attribuzione 4.0 Internazionale (CC BY 4.0)</foaf:name>
    </dcatapit:LicenseDocument>
  </dct:license>
  <dct:rights xmlns:dct="http://purl.org/dc/terms/"
    rdf:resource="https://geodati.gov.it/resource/constraints/ispra_rm:GE_3DMod_PoBasin_DT_ID_useConstraints"/>
  <dct:rights xmlns:dct="http://purl.org/dc/terms/"
    rdf:resource="https://geodati.gov.it/resource/constraints/ispra_rm:GE_3DMod_PoBasin_DT_ID_accessConstraints"/>
  <adms:representationTechnique xmlns:adms="http://www.w3.org/ns/adms#"
    http://inspire.ec.europa.eu/metadata-codelist/SpatialRepresentationTypeCode/vector</adms:representationTechnique>
</dcatapit:Distribution>
```


Results of the FAIR-Enough assessment: Further investigations

GeoDCAT-AP_IT metadata from national catalogue

<https://fair-enough.semanticscience.org/evaluations/f258bd2a64d54b103838c18e3dcd39b530001eac>

Findable

- F1 - Resource identifier is persistent
- F2 - Resource metadata identifier is unique
- F3 - Metadata is grounded and machine-readable
- F4 - Metadata is structured
- F5 - Metadata identifier explicitly in metadata
- F6 - The resource is linked to a descriptive resource

Accessible

- A1.1 - Metadata uses an open free protocol for metadata retrieval
- A1.2 - Metadata authentication and authorization
- A2 - Metadata is persistent

Interoperable

- I1 - Metadata uses a formal semantic knowledge representation language
- I2 - Metadata uses a formal structured knowledge representation language
- I3 - Metadata uses FAIR vocabularies registered in known repositories
- I4 - Metadata uses retrievable FAIR vocabularies
- I5 - Metadata contains outward references

Reusable

- R1 - Metadata includes a license
- R2 - Metadata includes a standard license

https://www.epsilon-italia.it/public/GO-PEG/GE_3DMOD_POBASIN.rdf

Identifier of this evaluation: <https://w3id.org/fair-enough/evaluations/2d23b0b0a70bc797052ed7b9d66490d5c3862515>

Evaluated in 29s with the [fair-enough-metadata](#) collection on the 2023-02-22

See other evaluations for https://www.epsilon-italia.it/public/GO-PEG/GE_3DMOD_POBASIN.rdf

Extracted metadata

© License: <https://creativecommons.org/licenses/by/4.0/>

Evaluation score: 12/16

75%

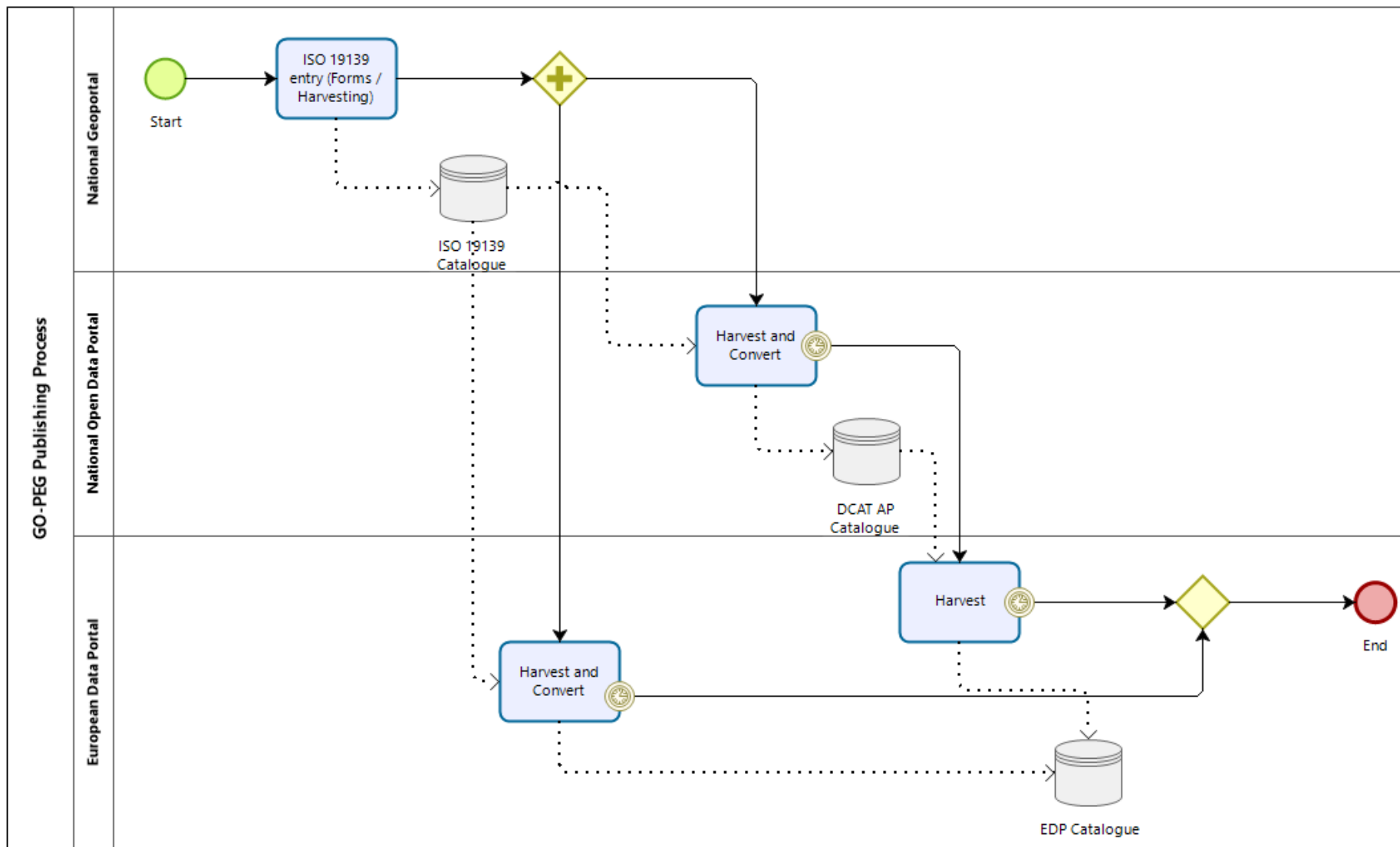
Results of the FAIR-Enough assessment

	ITEM UNDER TEST	VALIDATION TOOL			
		INSPIRE Validator	GEODCAT-AP Validator	FAIR-Enough	MQA Tool
<div> <div>Converter 1</div> <div>Converter 2</div> </div>	xml medata ISO-19139 published in national geoportal	✓			
	rdf metadata (geo)DCAT-AP transformed by data.europa.eu (<i>geo-harvester</i>)		✗	6/16	34 violations 5 warnings
	rdf metadata (geo)DCAT-AP-IT transformed by national open data portal		✗	4/16	30 violations 2 warnings

FAIR related, but using different metrics

Discussion

- We assume that, by complying with the FAIR principles, we increase the value of our digital assets.
- There are many tools available for assessing FAIRness. We have used FAIR Enough and MQA
 - Very easy to execute a test / assessment
 - Backtracking errors may be time consuming -> more structured approach to quality assurance needed.
- Some observed issues and barriers
 - Usage of unique and persistent identifiers
 - Conversion ISO 19115/19139 to DCAT-AP-XX
 - Multiple metadata entries in EDP
 - Scope of the catalogue (only one country, only public authorities, ...)



GO-PEG Publishing Process: Happy Path

Powered by
bizagi
Modeler

Some additional issues and barriers

- Quality Assurance of metadata publication.
 - Acceptance tests at strategic points in the workflow
 - In addition to FAIR Enough, we have discussed usage of checklists
- The future geodata publishing landscape
 - The role of geodata catalogues (INSPIRE requirements)?
 - Impact of OGC API – Records?
- FAIRness of other digital assets
 - Processes and tools, in addition to data and services
 - Variety of standards (and user needs)

THANK YOU