

The management of the cross-map registers in the Italian Registry, based on ISO 19146

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INSPIRE Conference 2018
Inspire Users: Make it work together



GeoDCAT-AP_IT



INSPIRE themes

Maintenance Frequency Code

INSPIRE media type



MDR Data Themes

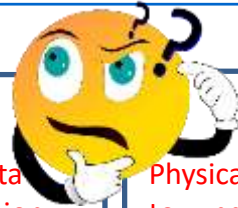
MDR Frequency

MDR File Type

Some alignments needed for the implementation of GeoDCAT-AP are published at <https://github.com/SEMICeu/iso-19139-to-dcat-ap/tree/master/alignments>



- **EU GLOSSARIES** - Glossaries from EU institutions and bodies (<http://termcoord.eu/discover/glossaries-by-eu-institutions-and-bodies/>)
- **EU VOCABULARIES** - Vocabularies managed by the EU institutions and bodies (<https://publications.europa.eu/it/web/eu-vocabularies/home>)
- **Central INSPIRE Registry and MSs Registries** (<http://inspire-regadmin.jrc.ec.europa.eu/ror/>)



Access point

URL for retrieving a detailed description of a Spatial Data Service, including a list of end points to allow its execution (INSPIRE metadata Technical Guidance)

Interoperability

The possibility for spatial data sets to be combined, and for services to interact, without repetitive manual intervention, in such a way that the result is coherent and the added value of the data sets and services is enhanced (INSPIRE Directive)

Public authority

(a) Any government or other public administration, including public advisory bodies, at national, regional or local level [...] (INSPIRE Directive)

Access point

Physical point, located inside or outside the building, accessible to undertakings providing or authorised to provide public communications networks, where connection to the high-speed-ready in-building physical infrastructure is made available (Directive 2014/61/EU - Digital Single Market Glossary)

Interoperability

Suitability of a transport network for movements without breaking bulk (Inland waterways Glossary)

Public sector body

A state, regional or local authority, a body governed by public law or an association formed by one or several such authorities or one or several such bodies governed by public law (Directive 2014/61/EU)



Registry:

- information system for the maintenance, publication and access of a number of (INSPIRE and/or national) registers.

Registers:

- provide **means to assign unique identifiers** (or “reference codes”) to and consistently manage different versions of resources;
- support cultural and linguistic adaptability by providing both a **means for recording equivalent names of items used in different languages, cultures, application areas and professions**, and a means for **making those equivalent names publicly available**.



- **Important dates:**
 - November 2017 – Beta version of the registry online with 2 initial registers published
 - June 2018 – Official version online with new registers
 - July 2018 – Registry registered in the **INSPIRE federation**
- Registry published under the **coordination activities** carried out by AgID, ISPRA and Ministry of the Environment.
- Based on the **Re3gistry** software, developed by the Are3NA and ELISE projects (ISA/ISA² programmes).
- **Customisation of the interface** to comply with some requirements given in **Italian guidelines on design**.
- Currently **8 registers** published and other **3 planned**

Presentation by ISPRA
 «*The Italian INSPIRE Registry and the best practices to manage the resource*»
 20 September h. 9:45 Room Okapi 2



Geographic information — Cross-domain vocabularies

The Standard:

- establishes a **methodology for cross-mapping** between vocabularies, intended for use by geospatial communities but may have wider application;
- specifies an implementation of ISO 19135-1 (*Geographic information — Procedures for item registration*) for the **purpose of registering cross-mapped vocabulary entries**.



Terms comparison:

- identical
- synonymic
- polysemic
- homonymic
- none

Concepts comparison:

- identical
- generalization
- specialization
- peer
- component
- aggregation
- user-defined
- none

Domain:

- It is necessary to associate concept domains with the respective terminological entries;
- the domain names shall be drawn from a **controlled list** to ensure consistent usage.

Cross-map register

Hierarchical register including:

- a separate subregister containing the reference vocabulary;
- a separate subregister containing the operating vocabulary;
- a separate subregister containing cross-map entries.

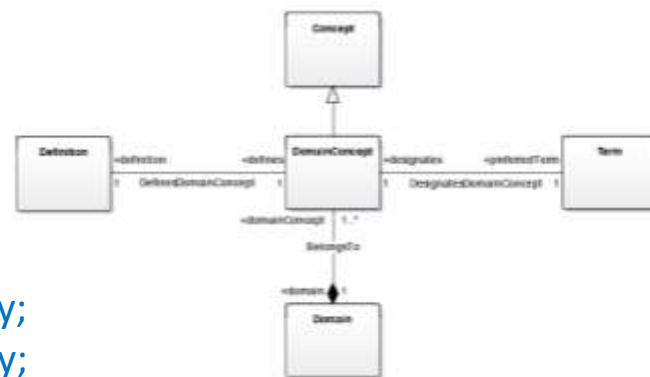


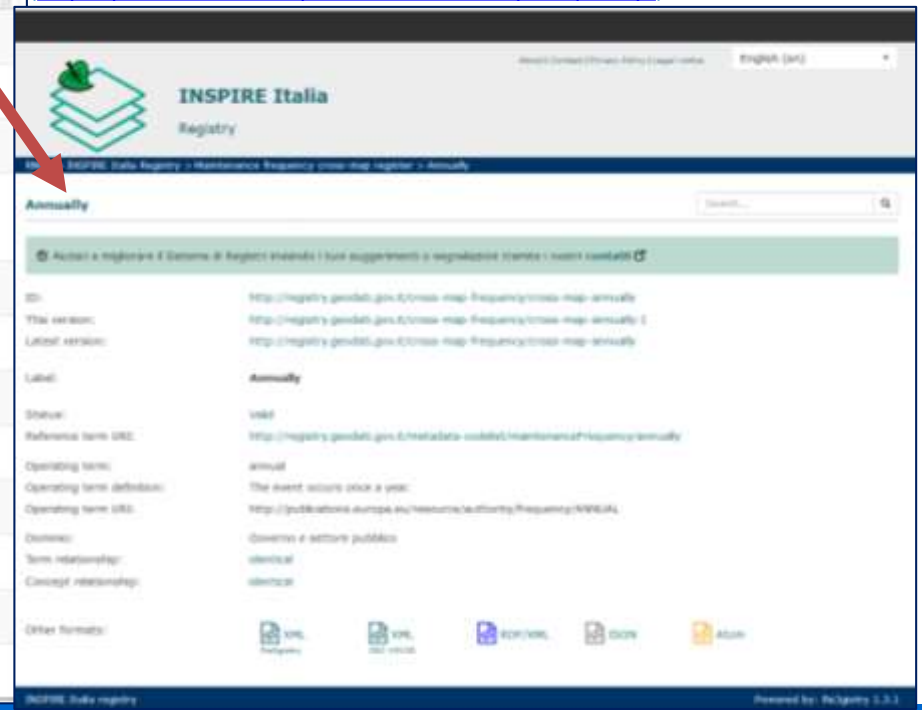
Figure B.1 — Terms, Definitions, Concepts and Domains



- **Reference register:** ISO Maintenance frequency code list (<http://registry.geodati.gov.it/metadata-codelist/maintenanceFrequency>)
- **Operating register:** MDR Frequency Named Authority List (<http://publications.europa.eu/mdr/authority/frequency/>)

Cross-map entries

Other Label	Other Reference term URI	Other Operating term	Other Operating term URI	Other Status
Label	Reference term URI	Operating term	Operating term URI	Status
Annually	http://registry.geodati.gov.it/metadata-codelist/maintenanceFrequency/annually	annual	http://publications.europa.eu/resource/authority/frequency/ANNUAL	valid
As needed	http://registry.geodati.gov.it/metadata-codelist/maintenanceFrequency/asNeeded			valid
Semiannually	http://registry.geodati.gov.it/metadata-codelist/maintenanceFrequency/semiannually	semiannual	http://publications.europa.eu/resource/authority/frequency/BIANNUAL_2	valid
Continual	http://registry.geodati.gov.it/metadata-codelist/maintenanceFrequency/continual	continuously updated	http://publications.europa.eu/resource/authority/frequency/UPDATE_CONT	valid
Daily	http://registry.geodati.gov.it/metadata-codelist/maintenanceFrequency/daily	daily	http://publications.europa.eu/resource/authority/frequency/DAILY	valid
Fortnightly	http://registry.geodati.gov.it/metadata-codelist/maintenanceFrequency/fortnightly	biweekly	http://publications.europa.eu/resource/authority/frequency/BIWEEKLY	valid
Irregular	http://registry.geodati.gov.it/metadata-codelist/maintenanceFrequency/irregular	irregular	http://publications.europa.eu/resource/authority/frequency/IRREG	valid
Monthly	http://registry.geodati.gov.it/metadata-codelist/maintenanceFrequency/monthly	monthly	http://publications.europa.eu/resource/authority/frequency/MONTHLY	valid
Not planned	http://registry.geodati.gov.it/metadata-codelist/maintenanceFrequency/notPlanned			valid
Quarterly	http://registry.geodati.gov.it/metadata-codelist/maintenanceFrequency/quarterly	quarterly	http://publications.europa.eu/resource/authority/frequency/QUARTERLY	valid
Unknown	http://registry.geodati.gov.it/metadata-codelist/maintenanceFrequency/unknown	unknown	http://publications.europa.eu/resource/authority/frequency/UNKNOWN	valid
Weekly	http://registry.geodati.gov.it/metadata-codelist/maintenanceFrequency/weekly	weekly	http://publications.europa.eu/resource/authority/frequency/WEEKLY	valid



INSPIRE Italia Registry

Maintenance Frequency code list register > Annually

Annually

Annual & irregular & Domestic & Regular intervals & Just supplements & Irregular intervals & Event contents

ID: <http://registry.geodati.gov.it/cross-map/frequency/cross-map-annually>

This version: <http://registry.geodati.gov.it/cross-map/frequency/cross-map-annually-1>

Label version: <http://registry.geodati.gov.it/cross-map/frequency/cross-map-annually>

Label: **Annually**

Status: **valid**

Reference term URI: <http://registry.geodati.gov.it/metadata-codelist/maintenanceFrequency/annually>

Operating term: **annual**

Operating term definition: The event occurs once a year.

Operating term URI: <http://publications.europa.eu/resource/authority/frequency/ANNUAL>

Domain: **covers a sector public**

Term relationship: **identical**

Concept relationship: **identical**

Other formats: [XML](#) [XML](#) [JSON/XML](#) [CSV](#) [Atom](#)

INSPIRE Italia registry

Powered by: [P4Registry 1.3.1](#)



Term relationship

Search:

ID: <http://registry.geodati.gov.it/registry/term-relationship>

Label: **Term relationship**

Definition: Type of relationship between terms, as per ISO 19146 standard.

Filter Label	Filter Definition
Label	Definition
Homonymic	The two terms are identical but designate distinctly different concepts that s
Identical	The two terms are identical and designate the same concept.
None	There is no relationship between the two terms.
Polysynic	The two terms are identical but designate distinctly different concepts that s
Synonymic	The two terms are different but designate the same concept.

Items per page: 50 Showing 1 to 5 of 5 entries

Concept relationship

Search:

ID: <http://registry.geodati.gov.it/registry/concept-relationship>

Label: **Concept relationship**

Definition: Type of relationship between concepts, as per ISO 19146 standard.

Filter Label	Filter Definition
Label	Definition
Aggregation	The concept is an aggregation of two or more other concepts.
Component	The concept is a component of the other concept.
Generalization	The concept is a generalization of the other concept.
Identical concept	The two concepts are identical.
No relationship	There is no relationship between the two concepts.
Peer	The two concepts share characteristics inherited from a common superordinate concept.
Specialization	The concept is a specialization of the other concept.
User-defined	The relationship between the two concepts is specified by a user-defined classification system.

Items per page: 50 Showing 1 to 8 of 8 entries

First Previous Next Last

<http://registry.geodati.gov.it/registry/term-relationship>

<http://registry.geodati.gov.it/registry/concept-relationship>



- Improving the **coordination between the INSPIRE implementation and eGovernment policies** and the use of spatial data in digital public services are the challenges in the next future;
- That coordination requires a **common understanding** of the processes, practices and content of the different communities;
- The Re3gistry can be a **good solution** for a first step in the direction of that coordination;
- For that purpose, it needs to **extend the scope of the registry** to cover domains beyond INSPIRE and improve the cross-mapping of registers.

Thank you for the attention!

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