

Training on Re3gistry/INSPIRE Registry and ETF/INSPIRE Reference Validator

JRC INSPIRE Team

May 29-31, 2024





Housekeeping rules

- Please mute your microphone when you are not talking.
- If, during the registration, you did not consent to having your picture taken and recorded during the event, please make sure to keep your camera off.
- During the Q&A sessions at the end of each training part, please raise your hand in order to be given the floor.
- During the whole training, you can ask questions in the chat: our team will
 do the best to address these in real-time.



The trainings

- What: overview of the Re3gistry and ETF open source software tools and their INSPIRE implementations (Registry and Reference Validator).
- To whom: everyone from new to experienced users, developers & admins.
- How: through a mix of theoretical notions & hands-on demonstration.

Re3gistry and INSPIRE Registry - 29 May 2024, 9:30-12:30

9:30 - Welcome

9:35 - Introduction to the Re3gistry and the INSPIRE Registry

9:50 - Part 1. Getting started with the Re3gistry

- · Installation
- · Description of the application
- · Creation of content & Data governance

10:30 - Q&A session

10:45 - Coffee break 🖱

11:00 - Part 2. The Re3gistry in detail

- · Specific Re3gistry features
- · Frontend & Data consumption

12:10 - Re3gistry Starter Kit

12:15 - Q&A session

ETF and INSPIRE Reference Validator - 31 May 2024, 9:30-12:30

9:30 - Welcome and introducation to the training

9:35 - Introduction to the ETF and the INSPIRE Reference Validator: a business perspective

10:00 - Introduction to the ETF and the INSPIRE Reference Validator: a technical perspective

10:30 - Coffee break 🖱

10:45 - Starter Kit for users, developers and admins

11:45 - Q&A session





Introduction to the Re3gistry and the INSPIRE Registry

JRC INSPIRE Team & Bilbomatica

Re3gistry and INSPIRE Registry training May 29, 2024

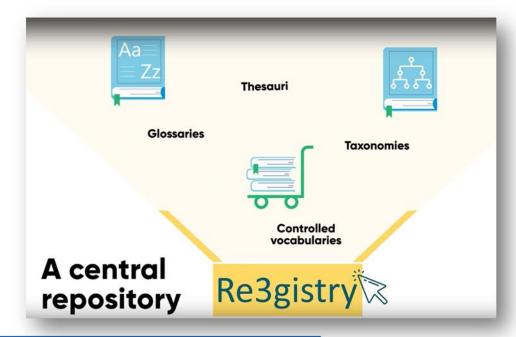


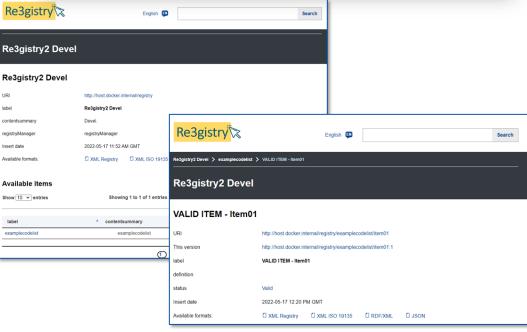


- The Re3gistry provides a central access point, where commonly shared reference codes, their labels and descriptions.
- It can be easily browsed by humans while retrieved by machines through its REST API.

https://joinup.ec.europa.eu/collection/are3na/solution/re3gistry

- Version 2.0 introduced key features such as an interactive administration interface.
- The latest version available is <u>v2.5.3</u>.





What is the Re3gistry useful for?

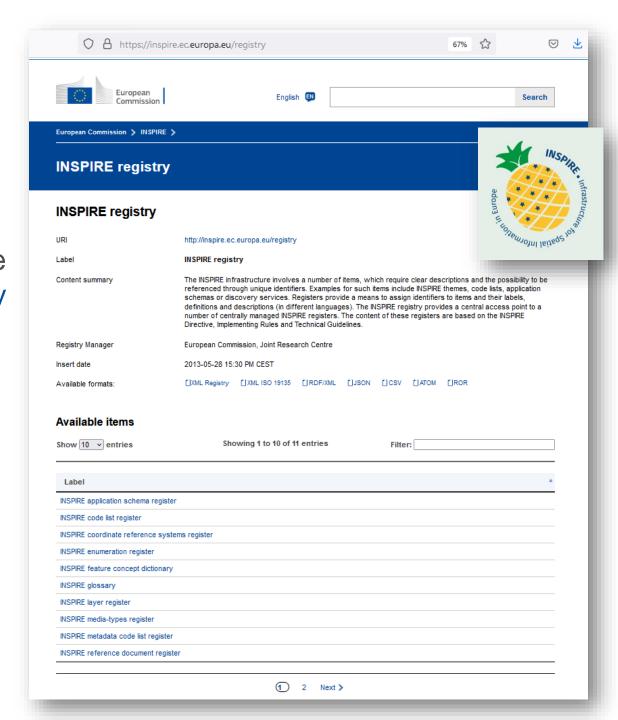
- Avoid common mistakes (such as entering synonyms) or misspellings when filling out online forms.
- Facilitate the internationalisation of user interfaces and registered items, by providing multilingual labels.
- Ensure semantic interoperability when exchanging data between systems and applications.
- Increase the value of references codes if widely reused and referenced.





Background

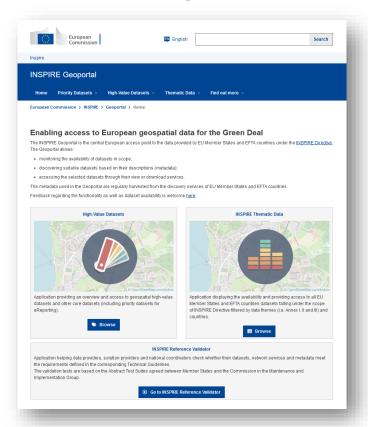
- 2013 the European Commission's
 Joint Research Centre (JRC) starts the
 development of the Re3gistry to satisfy
 the semantic interoperability
 requirements set by the INSPIRE
 Directive: the INSPIRE Registry is
 implemented.
- 2020 Given its high reusability potential, it was decided to be released as a generic open-source project to support semantic interoperability across any organisation.

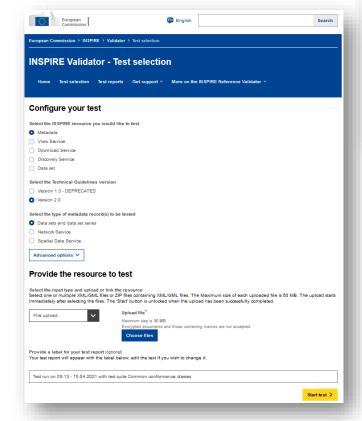


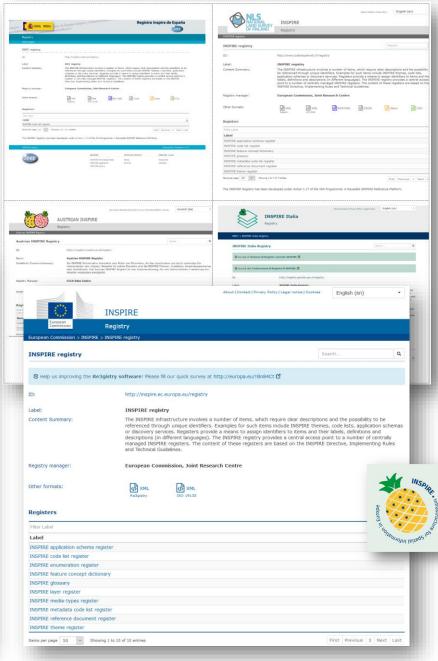
INSPIRE Registry

Part of the Core INSPIRE Central Components of the European Infrastructure

Reusability and implementations in MS.

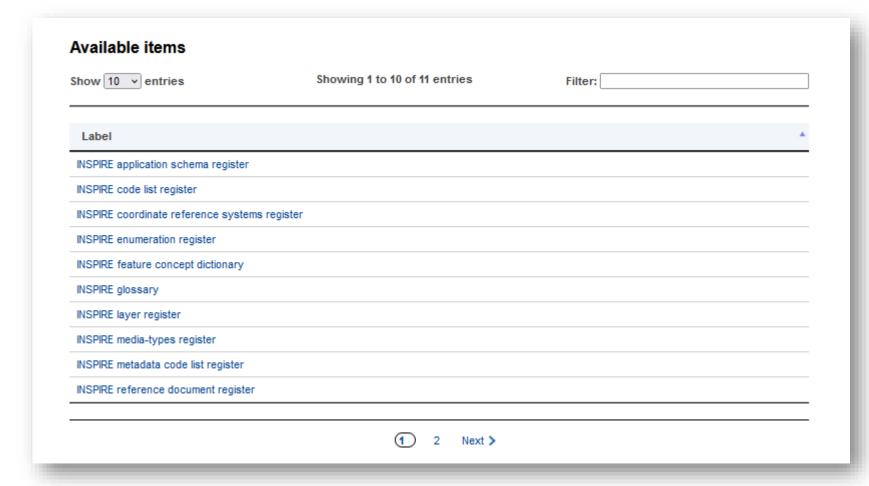






INSPIRE Registry Contents

Different registers available





https://inspire.ec.europa.eu/registry



Re3gistry Open Source - OSGeoLive















Re3gistry

About



The Re3gistry 2 is a reusable open source solution for managing and sharing "reference codes". Initially developed as a central component of the EU's INSPIRE infrastructure, it provides a consistent central access point where labels and descriptions for reference codes can be easily browsed by humans and retrieved by machines. Reference codes are exchanged between applications to uniquely reference some 'thing'. They can be used to define sets of permissible values for a data field or to provide a reference or context for the data being exchanged. Examples are enumerations, controlled vocabularies, taxonomies, thesauri or, simply, 'lists of things'. The Re3gistry 2 supports organisations in managing and updating reference codes in a consistent way. The Re3gistry software version numbers comply with the Semantic Versioning Specification 2.0.0.

Core Features

- . User-friendly editing interface to easily add, edit and manage the registers and reference codes
- . Management of the full lifecycle of the reference codes (based on the ISO 19135 Standard)
- . Highly flexible and customisable data models
- · Multi-lingual content support
- · Support for versioning
- . RESTful API with content negotiation (including OpenAPI 3 descriptor)
- Free-text searc
- Supported formats: HTML, ISO 19135 XML, JSON, RDF/XML, Re3gistry XML, CSV, ATOM
- . Service formats can be easily added or customised (default formats: JSON and ISO 19135 XML)
- · Multiple authentication options
- . Externally governed items referenced through URIs
- INSPIRE register federation format support (option to automatically create the RoR format)
- . Web-app to access the reference codes in a human readable way.

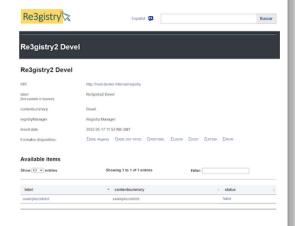
Details

Website: https://aithub.com/ec-irc/re3aistry

Licence: EUPL

Software Version: 2.4.2

Supported Platforms: Windows, Linux



- Reusable open source software, licensed under EUPL.
- Included in OSGeoLive package:
 https://live.osgeo.org/en/overview/re3gistry_overview.html
- Easiest flexible way to install the application.

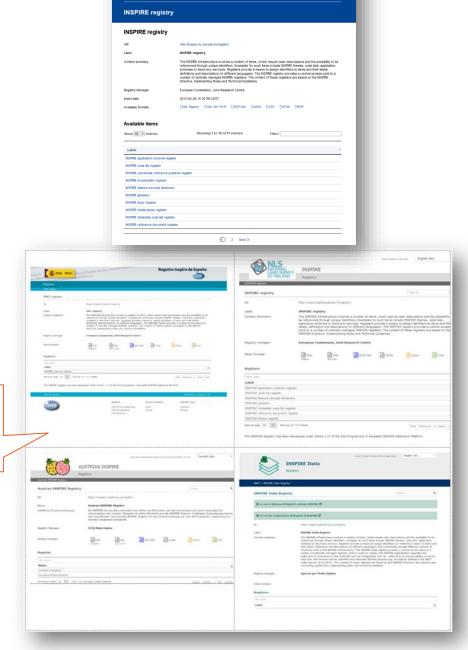


Re3gistry Who is using it?

- The European Commission:
 - The INSPIRE Registry is the first and most popular instance based on the Re3gistry software.
 - The Publications Office of the European Union recently analysed the capabilities of the Re3gistry software for the publication of Corporate Reference Data Sets.
- Agencies and companies in the Member States & EFTA countries

Austria, Belgium, Czech Republic, Finland, Germany, Italy, Netherlands, Republic of North Macedonia, Slovakia, Spain.

 Different EU-funded projects, private companies and organisations outside Europe (e.g. Republic of Colombia).



https://joinup.ec.europa.eu/collection/are3na/solution/re3gistry/re3gistry-reusers

Re3gistry Core features

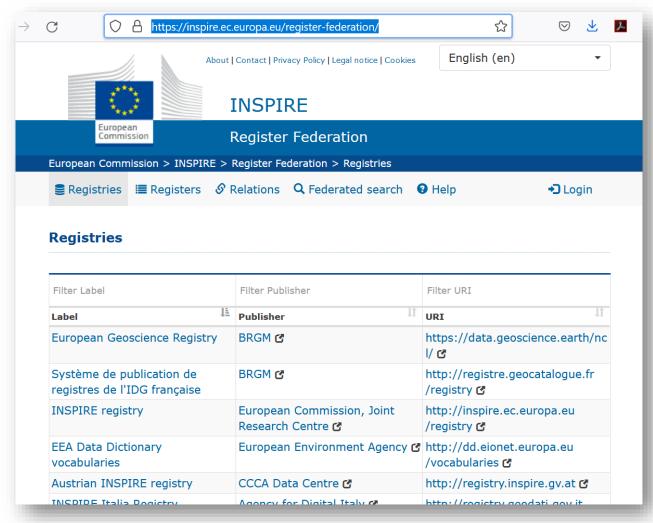
- Collaborative platform.
- Intuitive user friendly interface (web-app) for administrators and users.
- Different options for managing the registers and reference codes, either based on:
 - ISO 19135 standard, or
 - Simplified workflow.
- Highly flexible and customisable data models.
- Multi-lingual content support.
- Persistent identifiers.
- Support for versioning (historic trace of versions).

- RESTful API with content negotiation (including OpenAPI 3 descriptor).
- Free-text search.
- Supported formats:
 - HTML, ISO 19135 XML, JSON, RDF/XML, Re3gistry XML, CSV, ATOM.
 - Service formats can be easily added or customised (default formats: JSON and ISO 19135 XML).
- Multiple authentication options.
- Possibility to add externally governed items referenced through URIs.
- INSPIRE register federation format support (option to automatically create the RoR format).



Register Federation Tool (RoR)

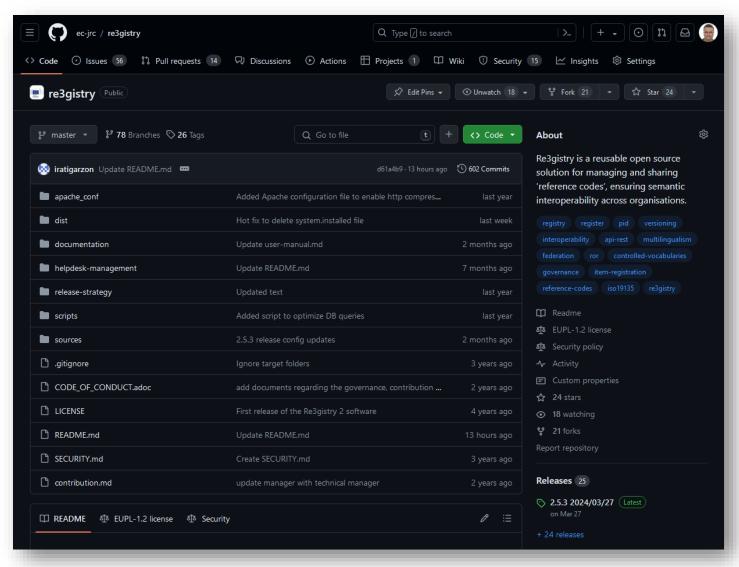
Example: INSPIRE Register Federation



https://inspire.ec.europa.eu/register-federation/

- Tool that allows to create a distributed federation of registers.
- The European Commission is implementing an INSPIRE Register Federation in the scope of the INSPIRE Directive.
- The Register of Registers (RoR), is the central access point to the federation.
 - Provides information about the registers included in the federation and their relationships.
 - Allows searching for registers and the items contained in them.
 - Can be publicly accessed via graphic user interface or API.

Re3gistry & RoR GitHub repository

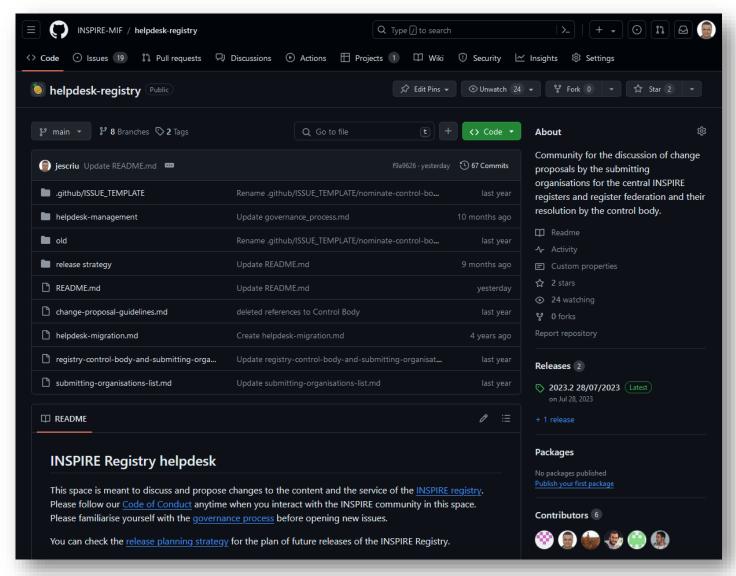


- Code repository:
 https://github.com/ec-jrc/re3gistry
- Release strategy:

 https://github.com/ec jrc/re3gistry/tree/master/release strategy
- Issue helpdesk: <u>https://github.com/ec-jrc/re3gistry/issues</u>



INSPIRE Registry GitHub repository



- Code repository:

 https://github.com/INSPIRE MIF/helpdesk-registry
- Release strategy:

 https://github.com/INSPIRE MIF/helpdesk registry/tree/main/release%20strategy
- Issue helpdesk: https://github.com/INSPIRE-MIF/helpdesk-registry/issues



Re3gistry Latest releases

Latest releases:

March 2024 (v2.5.3)

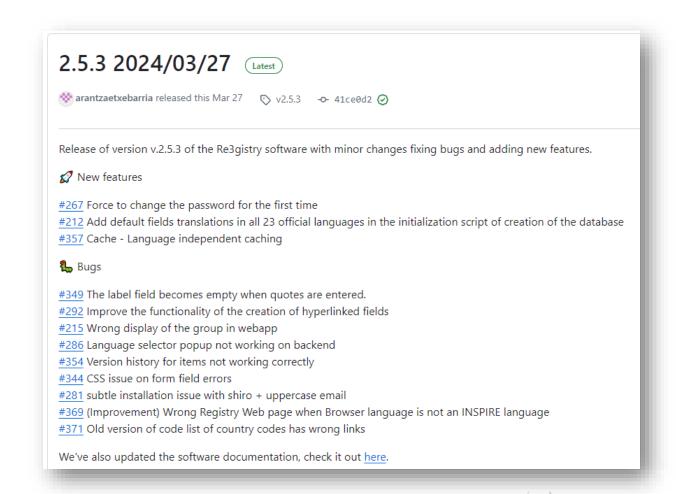
https://github.com/ec-jrc/re3gistry/releases/tag/v2.5.3

December 2023 (v2.5.2)

https://github.com/ec-jrc/re3gistry/releases/tag/v2.5.2

Next release:

June 2024 (v2.6.0)



European

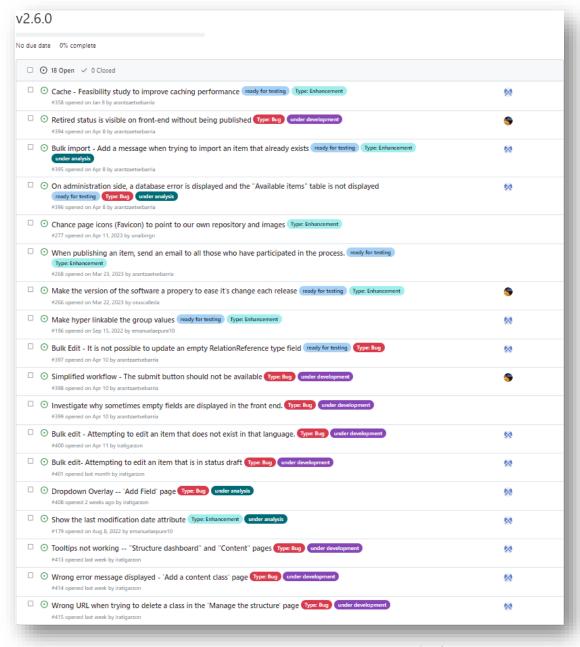
Re3gistry Next release

Release v2.6.0 - June 2024

Milestone:

https://github.com/ec-jrc/re3gistry/milestone/9

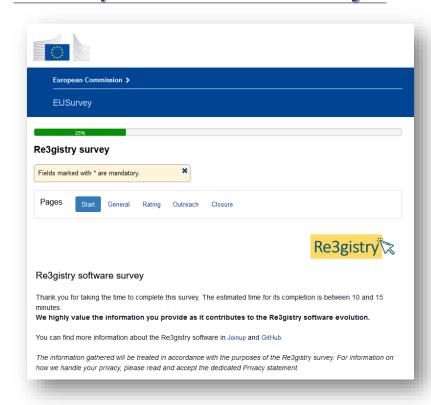
- Focused on making improvements in:
 - Caching
 - Bulk edit functionality
 - Email notifications.
- Addressing an in-depth testing of the application to make a robust and reliable version.



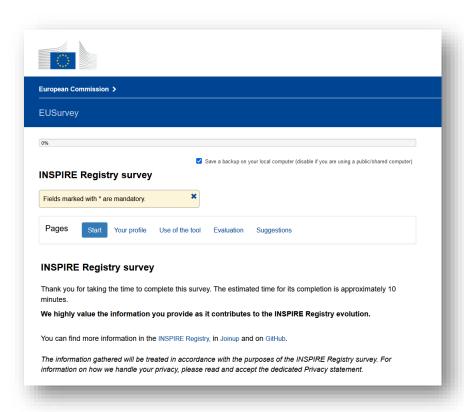


Re3gistry and INSPIRE Registry Surveys

Take part in our surveys !!



Re3gistry software



INSPIRE Registry

Community & Communication channels

GitHub - <u>Re3gistry Helpdesk</u>
 <u>INSPIRE Registry Helpdesk</u>



OSGeoLive 16 - Re3gistry software

Re3gistry - <u>Promotional video</u>











Demonstrations today

- 9:50 Part 1. Getting started with the Re3gistry
 - Installation
 - Description of the application
 - Creation of content & Data governance
- 10:30 Q&A session
- 10:45 Coffee break 🖫
- 11:00 Part 2. The Re3gistry in detail
 - Specific Re3gistry features
 - Frontend & Data consumption
- 12:10 Re3gistry Starter Kit
- 12:15 Q&A session



Thank you!



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