



## Deliverable 2.5.1

# Administrative guideline for CKAN ITINERIS metadata-catalogue (Inside the catalogue - developer point of view)



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| Author(s) (Partner-OU):        | Lucia Saganeiti, Quinzia Palazzo, Giuseppe Gargano, Ermann Ripepi, Carmela Cornacchia |
| Reviewed by:                   | Luca Frosini, Francesco Mangiacrapa   |
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## 1. INTRODUCTION

The increasing complexity of environmental challenges requires integrated approaches capable of connecting observations, data, services and knowledge produced across multiple scientific domains. Research Infrastructures (RIs) play a strategic role in this ecosystem by generating high-quality datasets, analytical tools, services, and research outputs that support scientific advancement, evidence-based policymaking, environmental monitoring, and innovation.

Within this framework, ITINERIS – Italian Integrated Environmental Research Infrastructures System acts as a coordinated national initiative aimed at strengthening interoperability, accessibility, and sustainability of environmental research resources. The ITINERIS HUB serves as a unified digital access point to the assets provided by the participating Italian RIs, fostering cross-domain integration and alignment with European Open Science policies.

At the core of the HUB lies the ITINERIS Metadata Catalogue, a metadata-driven system based on the CKAN platform and integrated within the D4Science infrastructure (Assante et.al 2023). A catalogue is a digital service that supports users in publishing and searching collections of descriptive information (metadata) referring to digital items such as data, services, and related information objects.

The catalogue is designed to:

- support discovery, access and reuse of resources in accordance with the FAIR (Findable, Accessible, Interoperable, Reusable) principles;
- promote interoperability through standardized metadata profiles aligned with EOSC and DCAT-AP recommendations;
- ensure quality control through moderated publication workflows;
- enable structured aggregation of resources across Research Infrastructures and scientific domains.

This document provides a technical and operational description of the ITINERIS Catalogue. It is addressed to developers, system administrators, catalogue managers, and RI representatives involved in metadata curation and governance.

In particular, the document describes:

- the integration of CKAN within the D4Science infrastructure and its adaptation to the ITINERIS context;
- the metadata model and the customized resource profiles adopted in the catalogue;
- the management of users, roles, moderated workflows, and governance mechanisms;
- the organization of resources through groups and tags, including controlled vocabularies;
- the FAIR Implementation Profile (FIP) of the metadata catalogue;
- harvesting mechanisms and interoperability with external systems;
- technical configuration elements documented in the appendices.

The document serves as a shared reference to ensure coherent use, maintenance, and future evolution of the ITINERIS Catalogue, supporting its long-term sustainability within the national and European research infrastructure landscape.

## 2. RESOURCE TYPES, METADATA PROFILES AND INGESTION WORKFLOW

The ITINERIS Catalogue functions as the central access point for digital resources produced or managed by the participating Research Infrastructures (RIs), as defined in Deliverable 2.5: “*Catalogue of data and services - Specification document*”. It manages a diverse set of resource profiles, including Research Infrastructures, Providers, Services, Virtual Research Environments (VREs), Training Resources, Research Products, and Datasets.

The implementation of the catalogue is based on a structured workflow Figure 1 that connects resource modelling, metadata definition, technical configuration, and ingestion processes. The workflow begins with the identification of the main resource typologies provided by the RIs, which establishes the conceptual domain model and defines the scope of the catalogue. In the ITINERIS Catalogue, these typologies are used to organise and filter items, and each of them is described through a corresponding metadata profile. For each resource typology a profile (metadata fields and properties) is defined at a conceptual level, including mandatory and optional attributes, controlled vocabularies, and classification criteria. This step ensures semantic harmonization across heterogeneous RI catalogues and provides the foundation for interoperability.

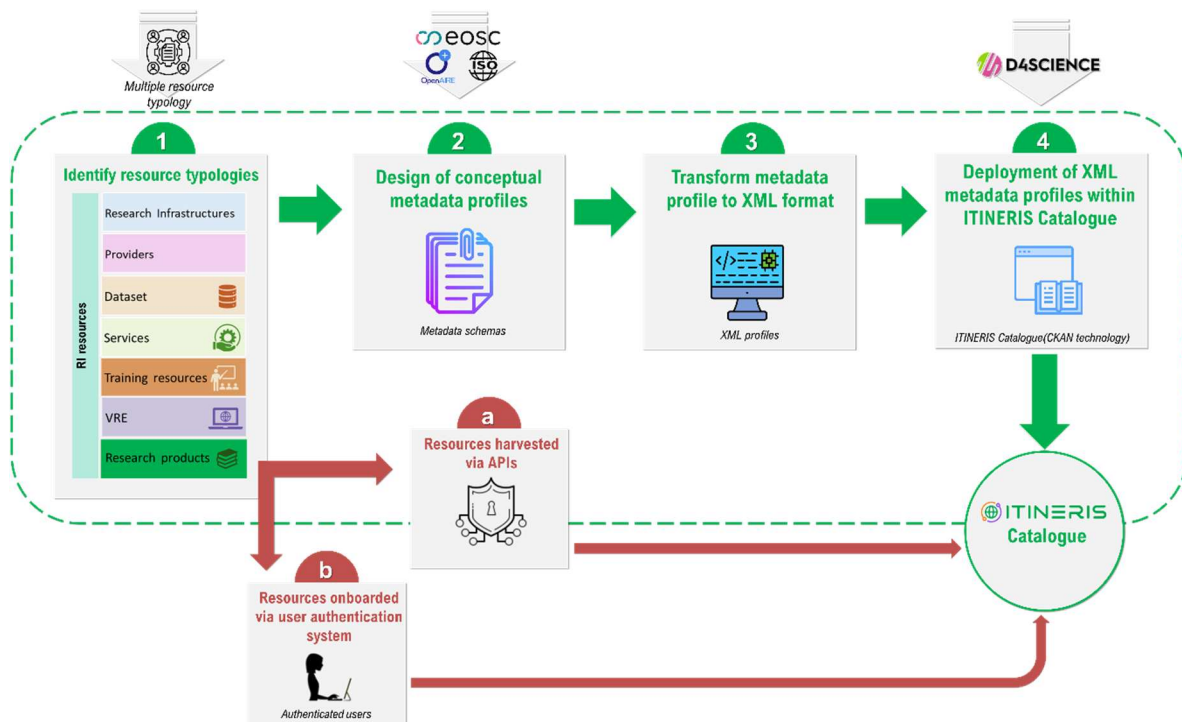


Figure 1 Workflow for the design and implementation of the ITINERIS metadata catalogue

These conceptual definitions are then formalized into metadata profiles, which represent the structured schemas governing how resources are described.

Within this framework, five customised metadata profiles have been defined in accordance with EOSC guidelines and widely adopted metadata models: Research Infrastructure, Provider, Service, VRE, Research Product, and Training Resource. For each profile, dedicated attributes have been introduced, to be populated using controlled vocabularies or free text where appropriate.

The metadata profiles are subsequently translated into the XML format required by the D4Science infrastructure, where validation rules, vocabulary constraints, and configuration logic are implemented.

Once defined, the metadata profiles are deployed within the ITINERIS Catalogue, based on CKAN technology and hosted on the D4Science infrastructure. This enables the operational configuration of the system and supports the creation and management of resources (items) according to the defined profiles.

The workflow also highlights two complementary ingestion pathways, reflecting a hybrid ingestion strategy tailored to the nature of the resources. Resources may be harvested automatically via APIs, enabling interoperability with external RI catalogues and facilitating scalable integration, or onboarded manually through an authenticated user system, allowing curated submission, validation, and moderation processes.

More specifically, Research Infrastructures, Providers, Services, VREs, Training Resources, and Research Products are onboarded manually through the completion of resource-specific metadata forms, ensuring high-quality, curated descriptions. Datasets are treated differently within the overall architecture and are not implemented as a dedicated metadata profile in CKAN. Instead, dataset metadata are managed exclusively via harvesting protocols from the ITINERIS Metadata HUB (GeoNetwork link: <https://geonetwork.itineris.cnr.it/geonetwork/srv/ita/catalog.search#/home>), with the ITINERIS catalogue periodically synchronizing new or updated records.

This hybrid approach ensures that complex and descriptive resources benefit from human curation, while large-scale data collections are integrated efficiently. Both ingestion mechanisms contribute to populating the ITINERIS Catalogue with harmonized resources, maintaining alignment between domain-specific metadata management and the centralized discovery capabilities of the catalogue.

### 3. CKAN INTEGRATION IN THE ITINERIS CATALOGUE

The ITINERIS Catalogue is the central access point for metadata describing digital resources made available by the Italian Research Infrastructures participating in the project. It provides a unified environment for organising, accessing, and managing information about services, tools, training resources, research products, and other assets produced within ITINERIS.

The catalogue has been designed to reflect the specific needs of the ITINERIS community, in terms of resource types, metadata structure, and organisational model. ITINERIS defines:

- the set of resource types to be managed (e.g. Research Infrastructures, Providers, Services/VREs, Training resources, Research products);
- the corresponding metadata profiles used to describe each type of resource;
- controlled vocabularies, tagging rules, and grouping mechanisms;
- user roles, workflows, and governance processes for resource publication and validation.

From a technological perspective, the catalogue is implemented within the D4Science infrastructure, which provides the underlying services for data management, user access, and catalogue functionalities. The system is based on CKAN technology, extended through the gCube framework (Assante et.al 2019a; Assante et.al 2019b; Gcube Wiki 2025).

Within this environment, the ITINERIS Catalogue represents a domain-specific configuration tailored to support the integration and discovery of environmental research resources. ITINERIS customises both the metadata model and the organisational structure of the catalogue, while relying on the underlying infrastructure for its operation.

The catalogue operates within a Virtual Research Environment (VRE) named “ITINERIS Catalogue”, which provides the operational context for managing resources, defining access policies, and supporting collaboration among users. Each resource published in the catalogue is associated with this environment, which governs its visibility and access conditions.

An example of the ITINERIS Catalogue interface is shown in Figure 2.



## ITINERIS VRE Gateway

Italian Integrated Environmental Research  
Infrastructures System

Sign In

Figure 2 ITINERIS VRE Gateway. Link: <https://itineris.d4science.org/>

### 3.1. Catalogue elements and customized metadata

In the ITINERIS Catalogue, an *item* represents a single digital resource described in the system. Items correspond to the entities published in the catalogue, such as services, providers, training resources, research products, and other supported resource types.

Each item is described through a set of metadata that provide the information necessary for its identification, discovery, and use. Metadata include both general descriptive information (e.g. title, description, keywords, licence, contacts) and additional attributes specific to the type of resource.

From a user perspective, metadata are organised into two main sections in the catalogue interface:

- a common metadata section (Edit common metadata, Figure 3a), which includes the core information required for all items;
- a type-specific metadata section (Edit item specific metadata & publish, Figure 3b), which includes additional fields defined according to the resource type and its specific characteristics.

The common metadata section (Edit common metadata, Figure 3a) corresponds to the minimum set of information required by the system. It includes the fundamental descriptive metadata necessary for indexing and publishing the item, such as title, description, keywords (tags), licence, and information about the author or technical contact. This section also automatically generates a persistent identifier (Item PURL), which ensures the long-term accessibility and unique identification of the resource.

The type-specific metadata section (Edit item specific metadata & publish, Figure 3b) allows the definition of extended metadata according to customised profiles. These metadata support a more detailed and domain-specific description of the resource, in accordance with FAIR principles and aligned with EOSC guidelines. The structure and fields of this section vary depending on the type of resource being described.

Each item is associated with the ITINERIS Catalogue environment, which defines its visibility, access permissions, and publication status.

Figure 3 Publish item tabs

## 4. METADATA STRUCTURE: NAMESPACES, GROUPING AND TAGGING

This section describes the structural components and organisational mechanisms adopted in the ITINERIS Catalogue for the management, representation, and discovery of metadata. Building upon the metadata profiles defined in the previous section, it provides a detailed overview of how metadata are structured and operationally implemented within the system. To improve both metadata compilation and usability, attributes are organised into thematic macro-groups, each corresponding to a specific namespace and grouping/tagging homogeneous information.

The chapter focuses on three key elements: (i) the use of namespaces for the logical organisation and consistent presentation of metadata, both during data entry and visualisation; (ii) grouping mechanisms for the aggregation of related resources according to shared characteristics; and (iii) tagging mechanisms to support resource classification, filtering, and search functionalities. These components collectively contribute to ensuring consistency, usability, and interoperability of metadata, while supporting efficient navigation and discovery within the ITINERIS Catalogue.

### 4.1. Namespace

In the ITINERIS catalogue, the use of name spaces is essential to ensure clear and consistent organization of information. Name spaces allow metadata to be grouped logically, facilitating both the resource entry phase (guiding the user in filling in the fields) and the reading and interpretation of data already in the catalogue. This ordered structure is particularly useful in complex and collaborative contexts, such as that of ITINERIS, where multiple types of resources and contributors coexist. In the appendix section there is a list of the name spaces used in the metadata profiles of the various resources (Table 3).

Through name spaces, the quality and consistency of metadata is improved, making the search, use and interoperability of information within and outside the catalogue more effective. See the examples below.

1. At item input/compilation stage:

**Publish Item**

Hosting legal entity:

**Marketing** includes general, non-technical information intended for users interested in the resource.

\* Description:

\* Logo:

**Classification** Information regarding the scientific context, structure, and access details of the resource, including scientific domains and subdomains, service types, eligibility criteria, and more.

\* Scientific Domain:

Repeatable field

\* Scientific Sub-Domain:

Repeatable field

Figure 4 Screen of the back-end catalogue page for item onboarding.

2. In item metadata consultation:

**ACTRIS Aerosol Clouds Trace Gases RI**

Created February 26, 2026 Updated on March 16, 2026


Item Research infrastructures Approved

The ACTRIS vision is to become an important European RI in the atmospheric field, in order to increase the excellence in Earth system observation and research and developing sustainable solutions to social needs. ACTRIS will provide access to resources and services by a large user community. The objective is to produce high-quality data in atmospheric science. ACTRIS-IT is the Italian component of the distributed research infrastructure ACTRIS. The Aerosol, Clouds and Trace Gases Research Infrastructure ACTRIS is the pan-European initiative that unites the observations and related research of aerosols, clouds, and trace gases among European partners to provide high-quality research infrastructure services to a wide user community.

**ACTRIS**  
Italy

Tags:

**Item URL**

 [https://data.d4science.org/ctlg/ITINERIS-HUB/actris\\_aerosol\\_clouds\\_trace\\_gases\\_ri](https://data.d4science.org/ctlg/ITINERIS-HUB/actris_aerosol_clouds_trace_gases_ri)

| Basic ⓘ   | Marketing ⓘ  | Classification ⓘ  |
|---|--|---|
| <p><b>HOSTING LEGAL ENTITY</b></p> <p><a href="https://ror.org/05ljed22">https://ror.org/05ljed22</a></p> <p><b>LEGAL ENTITY</b></p> <p>true</p> <p><b>LEGAL STATUS</b></p> <p>European Research Infrastructure Consortium (ERIC)</p> <p><b>RESEARCH INFRASTRUCTURE</b></p> <p>ACTRIS</p> | <p><b>DESCRIPTION</b></p> <p>The ACTRIS vision is to become an important European RI in the atmospheric field, in order to increase the excellence in Earth system observation and research and developing sustainable solutions to social needs. ACTRIS will provide access to resources and services by a large user community. The objective is to produce high-quality data in atmospheric science. ACTRIS-IT is the Italian component of the distributed research infrastructure ACTRIS. The Aerosol, Clouds and Trace Gases Research Infrastructure ACTRIS is the pan-European initiative that unites the observations and related research of aerosols, clouds, and trace gases among European partners to provide high-quality research infrastructure</p> | <p><b>SCIENTIFIC DOMAIN</b></p> <p>Natural Sciences</p> <p><b>SCIENTIFIC SUB-DOMAIN</b></p> <p>Natural Sciences, Physical Sciences</p> <p><b>SCIENTIFIC SUB-DOMAIN</b></p> <p>Natural Sciences, Computer &amp; Information Sciences</p> <p><b>SCIENTIFIC SUB-DOMAIN</b></p> <p>Natural Sciences, Earth &amp; Related Environmental Sciences</p> |

Figure 5 Screen of the front-end catalogue page for item visualization.

## 4.2. Grouping

Groups are used to organise catalogue items into logical collections, enabling users to browse and discover resources by project, thematic domain, or organisational context. Within the ITINERIS Catalogue, groups are generated and managed through metadata fields defined in the specific metadata profile schema. The grouping element supports the values *onFieldName*, *onValue*, *onFieldName\_onValue*, and *onValue\_onFieldName*, which determine whether the group name is derived from the metadata field name, its value, or a combination of both. The optional attribute *create="true"* enables automatic creation of the group when it does not already exist.

In the ITINERIS CKAN catalogue, grouping plays a key role in organising resources according to the primary dimension of Research Infrastructures (RIs). When a resource of type Research Infrastructure is created, it is automatically associated with the RI group corresponding to the value provided in the mandatory field: Research Infrastructure (Basic section).

The catalogue foresees 23 RI groups, corresponding to the participating infrastructures plus ITINERIS itself. If the specified group does not yet exist, it is automatically created; otherwise, the resource is linked to the existing group.

Resources belonging to other types - Provider, Service/VRE, Training Resources, and Research Products - use the same mandatory field to associate themselves with the appropriate RI group, ensuring consistent aggregation across resource typologies.

Because CKAN does not dynamically link controlled values across different resource profiles, maintaining consistency in controlled vocabularies is essential. Any modification to a controlled value (e.g., renaming an RI) must be replicated across all profiles that use the same field; otherwise, duplicate groups may be generated (for example, “e-LTER” and “eLTER”), fragmenting resource aggregation. To prevent inconsistencies, it is recommended to verify changes across all profiles before updating controlled values, maintain a centralised and authoritative list of RI names, avoid duplicate group creation, and consider adopting a centralised mechanism for managing and synchronising controlled vocabularies across profiles.

### 4.2.1. Research Infrastructure Group Management

The ITINERIS Catalogue includes a set of 23 groups representing the 22 Research Infrastructures (RIs) participating in the ITINERIS network (ACTRIS, ICOS, SIOS, EUFAR, CeTrA, Danubius, GeoSciencesIR, EURO ARGO, N/R Laura Bassi, Eurofleets, LNS, EMSO, Jerico, eLTER, LifeWatch, DISSCO, IBISBA, EMPHASIS, AnaEE, ECORD, ATLaS, SMINO) and an extra group named ITINERIS (Figure 6). This group does not represent a research infrastructure in the strict sense, but is intended as a group collecting items developed directly within the ITINERIS project that cannot be attributed to a specific RI, such as training resources or services created within the project framework.

*Table 1 Research Infrastructure Group Management*

| <i>Type/Profile</i>     | <i>Attribute name for group association/creation</i> | <i>Mandatory</i> |
|-------------------------|--|------------------|
| Research Infrastructure | Research Infrastructure                              | x                |
| Provider                |  |                  |
| Service/VRE             |  |                  |
| Research products       |  |                  |
| Training resources      |  |                  |

When configuring the metadata profile (XML), particular attention must be paid to the controlled lists whose values enable the creation of RI groups or the assignment of items to existing ones. These values drive the automatic grouping mechanism and therefore directly affect catalogue organisation and resource discoverability.

An example of the XML for the profile: Research Infrastructure

```
<metadataField categoryref="itineris_basic">
  <fieldName>Research Infrastructure</fieldName>
  <mandatory>true</mandatory>
  <dataType>String</dataType>
  <maxOccurs>1</maxOccurs>
  <note>Abbreviation or short name of the RI</note>
  <vocabulary isMultiSelection="false">
    <vocabularyField>ACTRIS</vocabularyField>
    <vocabularyField>ICOS</vocabularyField>
    <vocabularyField>SIOS</vocabularyField>
    <vocabularyField>EUFAR</vocabularyField>
    <vocabularyField>CeTrA</vocabularyField>
    <vocabularyField>Danubius</vocabularyField>
    <vocabularyField>GeoSciencesIR</vocabularyField>
    <vocabularyField>EURO ARGO</vocabularyField>
    <vocabularyField>N/R Laura Bassi</vocabularyField>
    <vocabularyField>Eurofleets</vocabularyField>
    <vocabularyField>LNS</vocabularyField>
    <vocabularyField>EMSO</vocabularyField>
    <vocabularyField>Jerico</vocabularyField>
    <vocabularyField>eLTER</vocabularyField>
    <vocabularyField>LifeWatch</vocabularyField>
    <vocabularyField>DISSCO</vocabularyField>
    <vocabularyField>IBISBA</vocabularyField>
    <vocabularyField>EMPHASIS</vocabularyField>
    <vocabularyField>AnaEE</vocabularyField>
    <vocabularyField>ECORD</vocabularyField>
    <vocabularyField>ATLaS</vocabularyField>
    <vocabularyField>SMINO</vocabularyField>
    <vocabularyField>ITINERIS</vocabularyField>
  </vocabulary>
  <grouping create="true">onValue</grouping>
</metadataField>
```

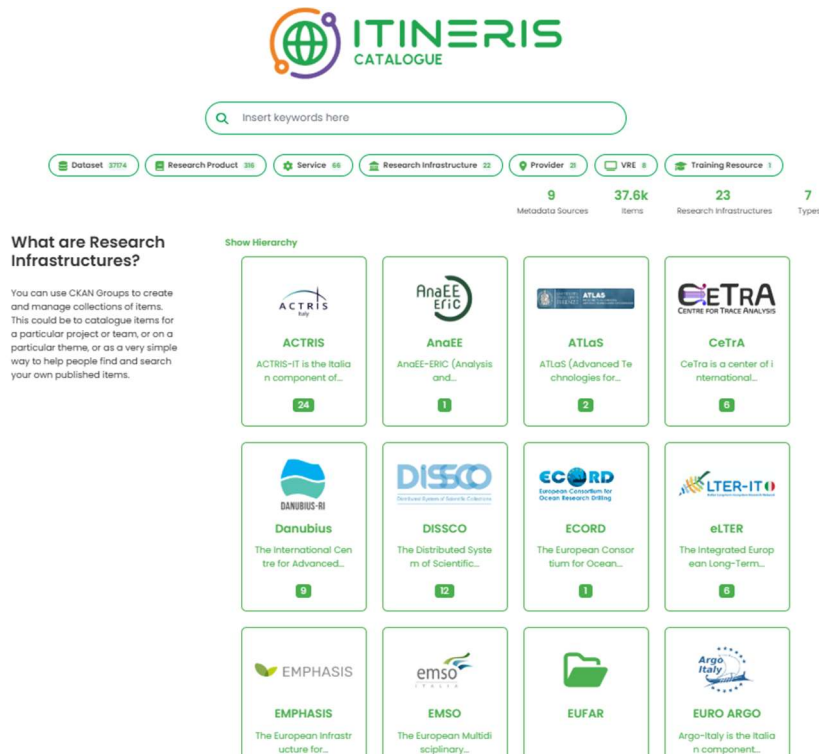


Figure 6 Front-end of the research infrastructure grouping mechanism.

### 4.3. Tagging Management

In the ITINERIS Catalogue, tags are used to classify and enhance the discoverability of resources through a controlled set of taxonomic terms. Technically, tags consist of an array of terms stored as metadata labels and generated from specific metadata fields. Within the gCube environment, tagging enables a metadata field to be automatically transformed into one or more tags associated with the resource. A tag is a string between 2 and 100 characters long and may contain only alphanumeric characters, hyphens (-), underscores (\_), and dots (.).

The tagging behaviour is defined in the different metadata profile schema through the `<tagging>` element, whose value determines how tags are created: `onFieldName` adds the metadata field name as a tag; `onValue` adds the field value; `onFieldName_onValue` generates a tag combining the field name and value (in that order); and `onValue_onFieldName` combines the value and field name.

When combined tags are generated, the two elements are separated by a configurable string defined through the optional `separator` attribute (the default separator is a hyphen). The optional `create="true"` attribute enables automatic tag creation when the specified tag does not already exist. By enabling consistent keyword assignment and automatic tag generation from metadata fields, tagging supports thematic aggregation, improves search and filtering capabilities, and facilitates resource discovery across the catalogue.

Tags may also be generated from free-text fields completed by users. Because these entries are not controlled, identical concepts may be expressed using different variants (e.g., *Atmosphere*, *atmosphere*, *Atmospheric*, *atmo*; *Clouds*, *Cloud*, *clouds*; *Remote sensing*, *Remote Sensing*), reducing consistency and search effectiveness. For this reason, the metadata schema strategically avoids the use of free tags wherever possible. Nevertheless, a limited number of free tags will still be present because the Common metadata section of the item submission form includes a mandatory field requiring at least one tag.

To improve consistency, user-provided tags must follow these conventions:

- the first letter of each word must be capitalised;
- acronyms must be written in uppercase;
- special characters are not permitted.

Accordingly, the correct forms of the previous examples are:

- Atmosphere
- Clouds
- Remote Sensing

By enabling consistent keyword assignment and automated tag generation from metadata fields and controlled vocabularies, tagging supports thematic aggregation, improves search and filtering capabilities, and facilitates resource discovery across the catalogue.

When configuring the metadata profile (.xml), particular attention must be paid to monitoring the controlled lists that enable the creation of tags or the assignment of resources to existing ones (see Table 2). These values drive the automatic tagging mechanism and directly affect resource classification and discoverability.

In particular, for the Research Infrastructure profile, the mandatory field *ITINERIS WP* generates tags identifying the main scientific domain in which the RI operates within the ITINERIS framework (Atmosphere, Marine, Terrestrial Biosphere, Geosphere and Land Surface), while the optional *Areas of activity* field may generate tags describing the activity type (Basic research, Applied research, Technological development).

For the Provider, VRE, Training Resources, and Service profiles, the mandatory *Provider* field generates a tag identifying the organisation responsible for managing or delivering the service or resource. Within the Service profile, additional optional fields may generate tags related to access characteristics: *Access Types* identifies the mode of access (e.g., Remote, Physical, Virtual, Mail-in, Other), while *Access Mode* specifies eligibility or access conditions (e.g., Free, Free with conditions, Paid, Peer reviewed, Excellence-based).

For the Research Product profile, optional fields generate tags describing the nature of the output, including *Publication* (e.g., Article, Book, Conference article), *Software* (software type), and *Other Research Product* (additional product categories).

Ensuring consistency and accuracy in these controlled values is essential to prevent duplicate tags, maintain semantic coherence, and support effective search, filtering, and thematic aggregation across the catalogue.

Table 2 Tagging management for the different profiles

| Profile                 | Tagging attribute name | Mandatory | Tag   |
|-------------------------|------------------------|-----------|---|
| Research Infrastructure | ITINERIS WP            | True      | Tag for scientific main domain in which the RIs is situated within the ITINERIS framework (Atmosphere, Marine, Terrestrial biosphere, Geosphere and Land surface) |
|                         | Areas of activity      | False     | Tag for Basic research, Applied research or Technological development   |
| Provider                | Provider               | True      | Tag for Provider that manage or deliver the service/resource  |
| VRE                     | Provider               | True      |   |
| Training resources      | Provider               | True      |   |
|                         | Provider               | True      |   |
| Service                 | Access Types           | False     | Tag for access different way of access (Remote, Physical, Virtual, mail-in, other).   |

|                  |                        |       |  |
|------------------|------------------------|-------|--|
|                  | Access mode            | False | Tag for Eligibility/criteria for granting access to users (free-conditionally, free, paid, peer reviewed, Excellence-Based). |
| Research product | Publication            | False | Tag for publication type (Article, Book, Conference article etc.).   |
|                  | Software               |       | Tag for software type.   |
|                  | Other research product |       | Tag for other research product type.   |

Below is the relevant example from the metadata profile (XML) configurations that control automatic tag generation for the different resource profiles. These elements define which metadata fields produce tags, how tags are constructed, and whether they are automatically created when missing. As an example, the tags relating to the research infrastructure profile are listed below. For other tags, please refer to Annex - xml profiles.

- Type/Profile ----- Research Infrastructure

```

<metadataField>
  <fieldName>ITINERIS_WP</fieldName>
  <mandatory>true</mandatory>
  <dataType>String</dataType>
  <maxOccurs>1</maxOccurs>
  <note>Identifies the main domain in which the research infrastructure is situated within the
ITINERIS framework</note>
  <vocabulary isMultiSelection="true">
    <vocabularyField>Atmosphere</vocabularyField>
    <vocabularyField>Marine</vocabularyField>
    <vocabularyField>Terrestrial biosphere</vocabularyField>
    <vocabularyField>Geosphere and Landsurface</vocabularyField>
  </vocabulary>
  <tagging create="true" separator=" - " onFieldName_onValue</tagging>
</metadataField>
...
...
<metadataField categoryref="itineris_other">
  <fieldName>Areas of activity</fieldName>
  <mandatory>false</mandatory>
  <dataType>String</dataType>
  <maxOccurs>*</maxOccurs>
  <note>Basic research, Applied research or Technological development</note>
  <vocabulary isMultiSelection="false">
    <vocabularyField>Basic research</vocabularyField>
    <vocabularyField>Applied research</vocabularyField>
    <vocabularyField>Technological development</vocabularyField>
    <vocabularyField>Other</vocabularyField>
  </vocabulary>
  <tagging create="true" onValue</tagging>
</metadataField>

```

- Type/Profile ----- Provider/Service/VRE/Training resources

```

<metadataField>
  <fieldName>Provider</fieldName>
  <mandatory>true</mandatory>
  <dataType>String</dataType>
  <maxOccurs>1</maxOccurs>
  <note>Select the acronym of the provider described from the list. If the provider is
not listed, select "other" and add it in the custom field.</note>
  <vocabulary isMultiSelection="false">
    <vocabularyField>Other</vocabularyField>
    <vocabularyField>ARPA_VDA</vocabularyField>
    <vocabularyField>AZTI</vocabularyField>
    <vocabularyField>CMCC</vocabularyField>
    <vocabularyField>CNR-IAS</vocabularyField>
    <vocabularyField>CNR-IBBA</vocabularyField>

```

```
<vocabularyField>CNR-IBBA Lodi</vocabularyField>
<vocabularyField>CNR-IBBA Milano</vocabularyField>
<vocabularyField>CNR-IBBA Pisa</vocabularyField>
<vocabularyField>CNR-IBBA Roma</vocabularyField>
<vocabularyField>CNR-IBBR</vocabularyField>
<vocabularyField>CNR-IBBR Bari</vocabularyField>
<vocabularyField>CNR-IBBR Napoli</vocabularyField>
<vocabularyField>CNR-IBE</vocabularyField>
<vocabularyField>CNR-IBE Sesto Fiorentino</vocabularyField>
<vocabularyField>CNR-IGG</vocabularyField>
<vocabularyField>CNR-IGG Firenze</vocabularyField>
<vocabularyField>CNR-IGG Padova</vocabularyField>
...
</vocabulary>
<tagging create="true" separator=" - ">onFieldName_onValue</tagging>
</metadataField>
```

These configurations ensure consistent tag generation across profiles, enabling improved filtering, thematic aggregation, and discoverability. Careful governance of vocabulary values and tagging rules is essential to prevent duplication and maintain semantic coherence throughout the catalogue.

## 5. ROLES AND PUBLICATION WORKFLOW OF A MODERATED CATALOGUE

The ITINERIS Catalogue is configured as a moderated catalogue, introducing a controlled and supervised publication workflow to ensure the quality, consistency, and interoperability of published resources. Unlike fully open or automated catalogues, this approach requires that items undergo a review process before becoming publicly visible.

In this context, it is important to distinguish between:

- technical validation: automatically enforced by the system through metadata profiles (e.g. completeness of mandatory fields, compliance with formats and controlled vocabularies);
- moderation: performed by designated roles, focusing on the quality, clarity, and semantic consistency of metadata.

### 5.1. Roles

In the ITINERIS catalogue users can have different roles depending on the activities they need to perform. Users may be assigned one or more roles depending on their responsibilities. Role assignment is managed at the platform level within the D4Science VRE. In this context, the VRE Manager is responsible for managing user membership and assigning roles to users, including those related to the ITINERIS Catalogue. It should be noted that the VRE Manager operates at the platform level and does not directly interact with catalogue content or workflows. Instead, this role ensures that users are granted the appropriate permissions, which are then enforced within the catalogue according to the roles described below.

The roles described below refer to permissions within the catalogue and define access levels and responsibilities:

- Catalogue Manager: highest level within the catalogue context; provides access to all catalogue functionalities and service APIs, excluding moderation-specific actions.
- Catalogue Admin: manages organisational settings and user roles within the catalogue.
- Catalogue Editor: can create, edit, and manage items they have onboarded.
- Catalogue Member: has read-only access to catalogue resources.
- Catalogue Moderator: a specialised role responsible for reviewing and moderating items before publication. The moderator ensures that metadata are complete, coherent, and aligned with the defined profiles and FAIR principles. The moderator may approve items, request revisions, or reject non-compliant submissions.

In particular, the catalogue moderator is a user with administrator (admin) privileges for one or more organizations and has customized privileges for editing and publishing resources. The main task of the moderator is to check resources before publication, ensuring that metadata is complete, consistent, and compliant with the requirements. In addition, they provide support to catalogue editor in the correct compilation of metadata and intervene, when necessary, to correct or remove non-compliant resources, promoting harmonization between the contributions of the various participating RIs. The moderator evaluates and approves (or rejects with comments) resources before they become visible to the public (finally published). They can request changes to the metadata of the compiled resource or definitively reject the resource. They can also report obsolete or inconsistent content, acting as an interface between catalogue editor and the portal's technical support team.

## 5.2. Publication Workflow

The publication workflow is structured as follows:

1. A user with editing permissions (e.g. *Catalogue Editor*) creates or updates an item and saves it in *draft* status.
  2. The item remains not publicly visible until the moderation process is completed.
  3. The *Catalogue Moderator* reviews the item and:
    - Approve item publication. If the item being checked is complete, correct, and compliant with the required profiles: approve publication. The user will then receive an email notification with a subject line and content such as:  
*[Catalogue-Moderator] approved the item "xxx"*.
    - Request revisions/temporary reject. If the item has minor errors or partial omissions, such as an incomplete description, missing tags, or a mandatory field that has not been filled in, temporarily reject the item with an accompanying explanatory message. As a result, the user will receive an email notification with a subject line and content such as:  
*[Catalogue-Moderator] rejected the item "xxx" with this accompanying message: "Please add the information correctly"*.
    - Permanently delete item. If the item has serious inconsistencies, structural incompleteness, or is not compatible with the adopted profiles and cannot be remedied within a reasonable time frame: definitively reject the item and remove it from the system (Figure 7). As a result, the user will receive two email notifications with a subject line and content such as:  
*[Catalogue-Moderator] permanently deleted the item "xxx"*.  
*[Catalogue-Moderator] rejected the item "xxx" with this accompanying message: "The item is not filled correctly"*.
- It is generally recommended to always clearly explain the reason for rejection, to facilitate understanding by the user and prevent future errors.

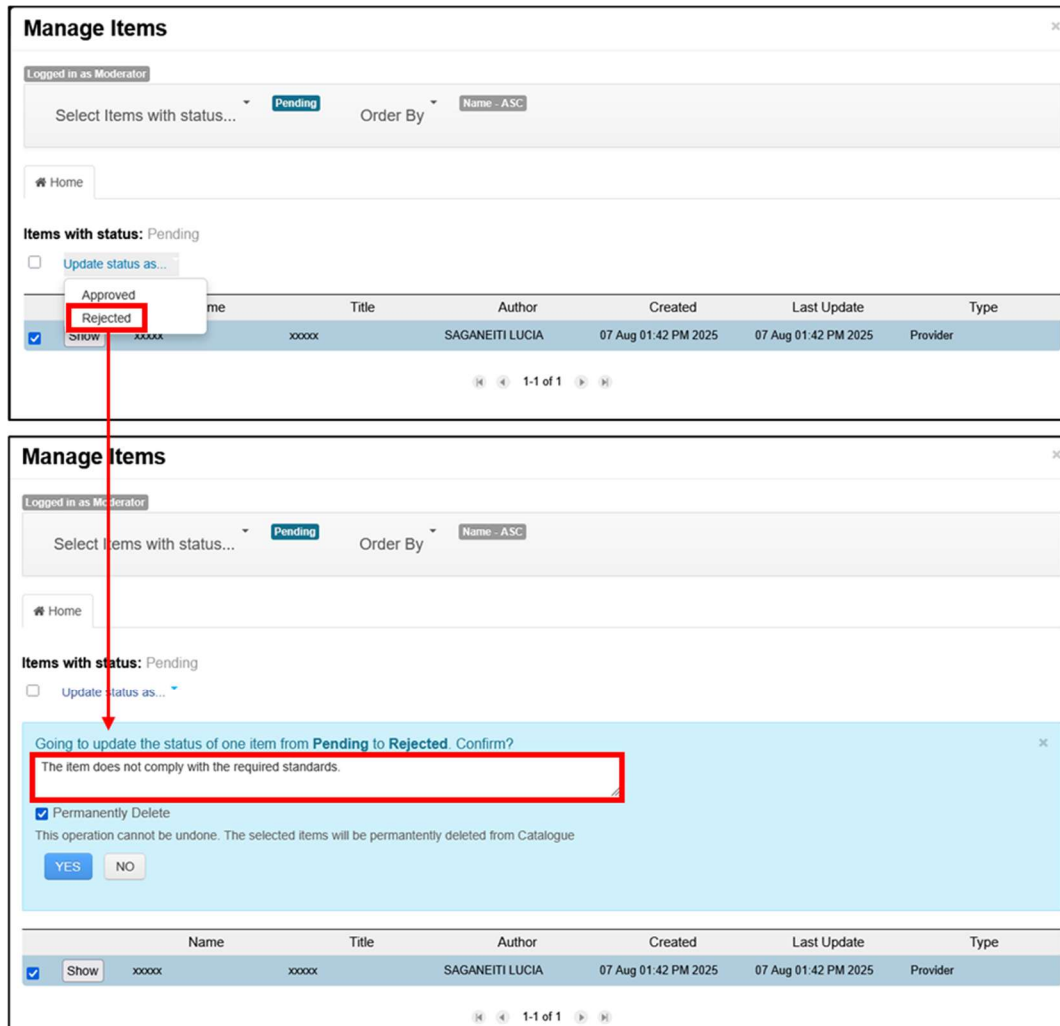


Figure 7 Permanently delete item example

## 6. GCUBE CATALOGUE (GCAT) COLLECTION

The ITINERIS Catalogue provides a web-based interface for standard operations such as item creation, metadata editing, and moderation workflows.

In addition to the graphical interface, advanced and programmatic interactions with the catalogue can be performed through APIs exposed within the D4Science infrastructure and based on the gCube framework (Pierantoni et.al 2023).

The ITINERIS catalogue operates within the D4Science ecosystem, whose technological core is gCube, an open-source toolkit designed to build and operate hybrid data infrastructures and enable the dynamic deployment of Virtual Research Environments (VREs). gCube components support typical data lifecycle workflows such as data access, curation, processing, and visualisation, handling diverse data types ranging from biodiversity records to geospatial and tabular datasets.

Within this ecosystem, the gCube Catalogue (gCat) API provides the programmatic interface to catalogue services. Through these APIs, users can perform operations such as item creation, metadata updates, publication workflows, moderation, and advanced queries.

To facilitate interaction with these REST services, Postman is adopted as the operational tool for executing and testing HTTP requests. Postman (<https://www.postman.com>) can be installed on Windows, macOS, or Linux, or used via the web interface after authentication.

To simplify usage, a preconfigured Postman collection is provided by D4Science and is available at the following link:

[https://api.d4science.org/catalogue/api-docs/postman/gcat.postman\\_collection.json](https://api.d4science.org/catalogue/api-docs/postman/gcat.postman_collection.json).

This collection includes ready-to-use requests for:

- item management (create, update, publish, delete, retrieval)
- moderation workflows
- organisation management
- profile creation and editing
- authentication and token handling

The collection can be imported in Postman via file or URL and becomes operational once environment variables and authentication settings are configured.

Further documentation on the gCube Catalogue (gCat), including additional technical details and aspects partially described in this document, is available at:

<https://api.d4science.org/gcat/docs/index.html>.

Detailed API documentation is available at: <https://api.d4science.org/gcat/api-docs/index.html> .

Because the token inherits the permissions of the authenticated user, appropriate roles (e.g. Catalogue Editor, Moderator, Administrator) are required to perform restricted operations.

Access to catalogue APIs requires a valid security token issued by the D4Science infrastructure. Tokens may be obtained through authentication services, dedicated endpoints, or directly from a VRE Manager or system administrator.

During implementation and testing, several technical issues were encountered and resolved through the D4Science support ticketing system (<https://support.d4science.org/>). These issues were addressed through coordination with the technical team, role verification, API collection updates, and alignment between metadata profiles and CKAN configuration.

## 7. DATASET HARVESTING GEONETWORK INTO CKAN

### 7.1. ITINERIS metadaHUB (GeoNetwork): datasets harvesting description

The ITINERIS metaDATA HUB, built on GeoNetwork 4x, provides a centralised environment for the discovery, monitoring, and verification of environmental datasets and related metadata. As the primary catalogue for ITINERIS Research Infrastructure geospatial resources, the metadata HUB ensures that all datasets harvested from contributing services remain compliant with schema standards, correctly indexed, and continuously accessible.

Monitoring activities include automated harvesting workflows, validation of metadata records against INSPIRE- and OGC-compliant schemas, and continuous checks on dataset availability across distributed data providers. The system periodically verifies the status of remote endpoints, detects missing or outdated records, and logs potential inconsistencies in harvesting operations. These mechanisms ensure the timely identification of broken links, unavailable services, metadata inconsistencies, or failures in data provision.

Dataset availability verification is performed through scheduled harvesting cycles that assess whether metadata records are reachable, valid, and up to date. The HUB maintains versioning information and change tracking, enabling the detection of updates, removals, or modifications within remote catalogues. Alerts and diagnostic reports support operators in maintaining a high level of reliability and interoperability across the ITINERIS data landscape.

Through these monitoring and verification capabilities, the ITINERIS metaDATA HUB ensures the long-term integrity, FAIR compliance, and operational continuity of dataset discovery services within the national research infrastructure.

### 7.2. Harvesting GeoNetwork metadata into CKAN – Technical Description

The harvesting of metadata from a CKAN catalogue into GeoNetwork 4.x is performed through the CKAN Harvester natively supported by GeoNetwork. This mechanism enables the integration of open-data catalogues, typically exposed via CKAN, into the ITINERIS/GeoNetwork ecosystem by converting CKAN dataset descriptions into ISO compliant metadata records.

CKAN can harvest metadata from a GeoNetwork 4.x catalogue using its native GeoNetwork harvester, which relies on standard OGC/CSQ compliant discovery interfaces. The harvesting workflow enables CKAN to import, synchronise, and re-publish geospatial metadata records originally managed within the GeoNetwork environment.

CKAN connects to GeoNetwork through OGC CSW 2.0.2 (Catalog Service for the Web) interface. This is the standard and recommended protocol for harvesting from GeoNetwork. CKAN issues GetCapabilities, GetRecords, and GetRecordById requests to retrieve ISO 19139 compliant metadata.

CKAN does not access the GeoNetwork database directly; it strictly uses the published catalogue APIs.

### 7.3. Harvesting Workflow

When CKAN harvests metadata from a GeoNetwork 4.x catalogue, it interacts with the GeoNetwork CSW (Catalog Service for the Web) endpoint to discover, retrieve, and synchronise metadata records. CKAN first establishes a connection with the GeoNetwork CSW service and queries the catalogue to identify the available metadata schemas and the list of records that can be harvested. It then issues standard CSW requests to collect the full ISO 19139 metadata descriptions for each dataset. Once retrieved, these metadata records are transformed into CKAN's internal data model, extracting titles, descriptions, tags, spatial and temporal information, and resource links from the ISO structure. The transformed records are stored and indexed in CKAN, where they become accessible through the portal's search interface and API. During subsequent harvest cycles, CKAN checks for updates by comparing modification timestamps in the GeoNetwork source and synchronises only the new or

updated records, ensuring that the CKAN catalogue remains aligned with the authoritative metadata in GeoNetwork. Errors or inconsistencies encountered during retrieval or transformation are reported through CKAN's harvesting management interface, enabling continuous monitoring and maintenance of the metadata flow between the two systems.

## 8. FAIR IMPLEMENTATION PROFILE - FIP OF THE ITINERIS CATALOGUE

In order to implement FAIR principles in the ITINERIS infrastructure, a FAIR Implementation Profile (FIP) has been initiated for the ITINERIS HUB metadata catalogue, which is currently under development and not yet publicly released. The FIP describes a metadata catalogue built on the CKAN platform, designed as a centralized access point to digital resources - including datasets, tools, services, training materials, and virtual environments - produced by Italian Environmental Research Infrastructures.

During the FIP compilation process, a conceptual simplification was adopted by treating metadata records and datasets as equivalent entities, providing identical responses for both resource types. To satisfy FAIR principle F4 regarding metadata publication, a FAIR Enabling Resource (FER) in the form of a nanopublication, named ITINERIS\_MC (Metadata Catalogue) ([https://w3id.org/np/RAMMfAYkBIbOxpbDoaPsnmJa62VA2i8ng9Q9A3vP5QIE#ITINERIS\\_MC](https://w3id.org/np/RAMMfAYkBIbOxpbDoaPsnmJa62VA2i8ng9Q9A3vP5QIE#ITINERIS_MC)), was created and registered to serve as the ITINERIS metadata registry (see Figure 8).

RAMMfAYkBI

Full identifier: <https://w3id.org/np/RAMMfAYkBIbOxpbDoaPsnmJa62VA2i8ng9Q9A3vP5QIE>

Assigned to 1 class:

- Nanopublication (N)

Status

This is the latest version.

Nanopublication

N ITINERIS\_MC | ITINERIS Metadata Catalogue FER Registry Domain-Specific-Registry

|             |         |  |
|-------------|---------|--|
| ITINERIS_MC | uri     | catalogue-itineris   |
| ITINERIS_MC | type    | Available-FAIR-Supporting-Resource   |
| ITINERIS_MC | type    | Domain-Specific-Registry   |
| ITINERIS_MC | type    | FAIR-Enabling-Resource   |
| ITINERIS_MC | type    | Registry   |
| ITINERIS_MC | comment | "ITINERIS metadata catalogue is the access point to the comprehensive collection of knowledge, data, analytics tools, and services provided by the Italian Research Infrastructures (RIs) in the environmental scientific domain for the observation and study of processes in the atmosphere, marine domain, terrestrial biosphere, and geosphere. Based on CKAN technology, the catalogue serves as a metadata registry that supports the publication, management, and discovery of metadata related to a variety of digital resources- such as datasets, training materials, tools, services, virtual research environments, and research results-produced within ITINERIS. As a FAIR supporting resource of the "metadata repository" type, the catalogue plays a key role in implementing the FAIR F4 principle by making metadata indexable and searchable through a user-friendly web interface and machine-operable APIs. Metadata models aligned with EOSC recommendations were adopted for the catalog, leveraging standards such as DCAT-AP and customized, interoperable schemas to ensure semantic consistency with European best practices." |

The assertion above creator Lucia Saganelli

This nanopublication was created on "2025-07-03T10:18:33Z"

FIP Wizard, 3 Jul 2025, 10:18:33 UTC

Figure 8 Nano-publication for ITINERIS Metadata Catalogue

Similarly, to address FAIR principle A2 concerning metadata preservation policy, the FER ITINERIS Data Management Plan ([https://w3id.org/np/RArAPBUUnLziu7zmD4ylNITTWKtwNFMzwO\\_DMPHRI9wGU](https://w3id.org/np/RArAPBUUnLziu7zmD4ylNITTWKtwNFMzwO_DMPHRI9wGU)) was developed and registered as the “Metadata Preservation Policy” (see Figure 9).

## RRaPBUUnL

Full identifier: [https://w3id.org/np/RRaPBUUnLzIU7zmD4yINITTWKtwNFMzwO\\_DMPHR19wGU](https://w3id.org/np/RRaPBUUnLzIU7zmD4yINITTWKtwNFMzwO_DMPHR19wGU)

Assigned to 1 class:

- Nanopublication (N)

### Status

This is the latest version.

### Nanopublication

ITINERIS Data Management Plan FER Metadata-preservation...

|              |                                |   |
|--------------|--------------------------------|---|
| ITINERIS_DMP | type                           | Available-FAIR-Supporting-Resource  |
| ITINERIS_DMP | type                           | FAIR-Enabling-Resource  |
| ITINERIS_DMP | type                           | Metadata-preservation-policy  |
| ITINERIS_DMP | comment                        | "The ITINERIS Data Management Plan (DMP) defines the policies, practices, and tools adopted to manage data and metadata throughout the entire lifecycle. The DMP establishes common guidelines for all ITINERIS RIs, specifying how scientific data and metadata generated or managed within ITINERIS are collected, described, stored, shared, and published." |
| ITINERIS_DMP | label                          | "ITINERIS Data Management Plan"   |
| ITINERIS_DMP | metadata-availability-in-years | **  |

The assertion above creator Lucia Saganeli

This nanopublication was created on "2025-07-04T09:30:19Z"

FIP Wizard, 4 Jul 2025, 09:30:19 UTC

Figure 9 Nanopublication for ITINERIS Data Management Plan

An additional consideration concerned the use of controlled vocabularies. For principle I2, it was decided to list all vocabularies already registered as FERs by the FAIR community, rather than including the terminology service developed within ITINERIS, since - as an aggregator of multiple vocabularies - it cannot be treated as a single controlled vocabulary within the FIP context.

## 9. REFERENCES

- Assante, M., Candela, L., Castelli, D., Cirillo, R., Coro, G., Frosini, L., ... & Sinibaldi, F. (2019a). Enacting open science by D4Science. *Future Generation Computer Systems*, 101, 555-563.
- Assante, M., Candela, L., Castelli, D., Cirillo, R., Coro, G., Frosini, L., ... & Sinibaldi, F. (2019b). The gcube system: Delivering virtual research environments as-a-service. *Future Generation Computer Systems*, 95, 445-453.
- Assante, M., Candela, L., Castelli, D., Cirillo, R., Coro, G., Dell'Amico, A., ... & Sinibaldi, F. (2023). Virtual research environments co-creation: The D4Science experience. *Concurrency and Computation: Practice and Experience*, 35(18), e6925.
- Pierantoni, G., Kiss, T., Bolotov, A., Kagialis, D., DesLauriers, J., Ullah, A., ... & Gesing, S. (2023). Toward a reference architecture based science gateway framework with embedded e-learning support. *Concurrency and Computation: Practice and Experience*, 35(18), e6872.
- Terminology - Gcube Wiki. n.d. Retrieved July 17, 2025. <https://gcube.wiki.gcube-system.org/gcube/Terminology>.

## 10.APPENDIX

Table 3 Name space table with name and description.

| id<br>(per .xml)                     | Name<br>(front end)    | Description (front end)  | Type of resource           |          |                 |                     |                      |
|--------------------------------------|------------------------|--|----------------------------|----------|-----------------|---------------------|----------------------|
|                                      |                        |  | Research<br>Infrastructure | Provider | Service<br>/VRE | Research<br>product | Training<br>resource |
| itineris_bas<br>ic                   | Basic                  | Includes basic identifying information about the resource, which is essential for its recognition and referencing.   | x                          | x        | x               | x                   | x                    |
| itineris_det<br>ailed_and_<br>access | Detailed<br>and Access | Provides descriptive, legal, and access-related information about the training resource, including a short summary, keywords, license, access conditions, and version date.                              |                            |          |                 |                     | x                    |
| itineris_lear<br>ning                | Learning               | Describes the educational purpose and structure of the training resource, including target audience, learning outcomes, skill level, content type, certification options, and estimated completion time. |                            |          |                 |                     | x                    |
| itineris_mar<br>keting               | Marketing              | Includes general, non-technical information intended for users interested in the resource.   | x                          | x        | x               |                     |                      |
| itineris_cla<br>ssification          | Classificati<br>on     | Information regarding the scientific context, structure, and access details of the resource, including scientific domains and subdomains, service types, eligibility criteria, and more.                 | x                          | x        | x               |                     | x                    |
| itineris_ava<br>ilability            | Availability           | Contains information about the availability of the resource, including the languages of publication and user interface, as well as the geographic locations where it is offered.                         |                            |          | x               |                     | x                    |
| itineris_loc<br>ation                | Location               | Defines the physical or geographical location of the resource.   | x                          | x        | x               |                     |                      |
| itineris_mai<br>n_contact            | Main<br>Contact        | Provides key contact details of key Research Infrastructure and provider managers, including name, role, e-mail and phone number.  | x                          | x        |                 |                     |                      |
| itineris_con<br>tact                 | Contact                | Provides contact details of resource manager, including name, role, e-mail and phone number.   |                            |          | x               |                     | x                    |

|                         |                |   |   |  |   |   |  |
|-------------------------|----------------|---|---|--|---|---|--|
| itineris_dependencies   | Dependencies   | Describes the relationships and external links of the resource, including supporting countries, affiliations with other organizations, catalogues of origin, related or required resources, and participation in larger groups. | x |  | x |   |  |
| itineris_maturity       | Maturity       | Describes the development stage, life-cycle phase, technical readiness, certifications, supported standards, technologies, versioning, and recent updates of the resource.  | x |  | x |   |  |
| itineris_attribution    | Attribution    | Identifies the funding sources behind the development and operation of the service, including supporting bodies, programs, and projects.  |   |  | x |   |  |
| itineris_management     | Management     | Provides links to key resources for managing and using the service, including documentation, access policies, usage rules, performance expectations, training, support, monitoring, and maintenance information.                |   |  | x |   |  |
| itineris_order          | Order          | Describes how the resource can be requested or accessed, including the ordering procedure and a link to the ordering page if applicable.  |   |  | x |   |  |
| itineris_financial      | Financial      | Provides information on payment models, pricing schemes, and any applicable cost-related conditions for accessing the resource.   |   |  | x |   |  |
| itineris_creator_author | Creator/author | Identifies the individual responsible for creating the resource, including name, email, and ORCID if available.   |   |  |   | x |  |
| itineris_other          | Other          | Other information useful in classifying the resource  | x |  |   | x |  |
| itineris_software       | Software       | Provides metadata on the subtype of the research product: software. Includes links to documentation, source code repository, and programming language used.   |   |  |   | x |  |
| itineris_publication    | Publication    | Provides metadata on the subtype of the research product: publication. Includes metadata about research literature, including journal or conference details   |   |  |   | x |  |

|                                 |                        |  |  |  |  |  |   |
|---------------------------------|------------------------|--|--|--|--|--|---|
|                                 |                        | such as name, ISSN, volume, issue, edition, location, and date.  |  |  |  |  |   |
| itineris_other_research_product | Other research product | Includes metadata for research products that do not fall under literature, data, or software, along with contact details and tools supporting their interpretation or reuse. |  |  |  |  | x |

The table is organized to make it easier to understand the application of filters on different types of resources. The first column on the left, highlighted in green, lists the names of available searchable filters. The top row, in orange, identifies the types of resources considered, including Research Infrastructure, Provider, Service, Research Product, VRE, Training Resource, and Dataset. The middle body of the table shows, for each filter, which resources it applies to and the name of the associated attribute (fieldName) found in the profiles in .xml format.

Table 4 Table of searchable filters that have been customized on the ITINERIS CKAN catalogue.

|                   |                           | Resource type   |   |   |                  |   |   |
|-------------------|---------------------------|---|---|---|------------------|---|---|
|                   |                           | Research Infrastructure                                 | Provider  | Service   | Research product | VRE   | Training resource                                       |
| Searchable filter | Provider                  |   | fieldName:Provider                                      | fieldName:Provider                                      |                  | fieldName:Provider                                      | fieldName:Provider                                      |
|                   | Scientific Domain         | fieldName:itineris_classification:Scientific Domain     | fieldName:itineris_classification:Scientific Domain     | fieldName:itineris_classification:Scientific Domain     |                  | fieldName:itineris_classification:Scientific Domain     | fieldName:itineris_classification:Scientific Domain     |
|                   | Scientific Sub-Domain     | fieldName:itineris_classification:Scientific Sub-Domain | fieldName:itineris_classification:Scientific Sub-Domain | fieldName:itineris_classification:Scientific Sub-Domain |                  | fieldName:itineris_classification:Scientific Sub-Domain | fieldName:itineris_classification:Scientific Sub-Domain |
|                   | Access Type               |   |   | fieldName:itineris_classification:Access Types          |                  | fieldName:itineris_classification:Access Types          |   |
|                   | Access mode               |   |   | fieldName:itineris_classification:Access mode           |                  | fieldName:itineris_classification:Access mode           |   |
|                   | Structure types           | fieldName:itineris_classification:Structure types       | fieldName:itineris_classification:Structure types       |   |                  |   |   |
|                   | Type of learning resource |   |   |   |                  |   | fieldName:itineris_learnin                              |

|  |                                 |  |  |  |  |  |   |
|--|---------------------------------|--|--|--|--|--|---|
|  |                                 |  |  |  |  |  | g:learningResourceTypes                                     |
|  | <b>Type of content resource</b> |  |  |  |  |  | <b>fieldName:</b><br>itineris_learning:contentResourceTypes |
|  | <b>Type of research product</b> |  |  |  | <b>fieldName:</b><br>itineris_basic:Type |  |   |

## 11. ANNEX - XML PROFILES

### 11.1. Research Infrastructure

```
<?xml version="1.0" encoding="UTF-8"?>
<metadataformat type="Research Infrastructure">

  <metadatafield>
    <fieldName>ITINERIS WP</fieldName>
    <mandatory>true</mandatory>
    <dataType>String</dataType>
    <maxOccurs>*</maxOccurs>
    <note>Identifies the main domain in which the research infrastructure is situated within the ITINERIS
framework</note>
    <vocabulary isMultiSelection="false">
      <vocabularyField>Atmosphere</vocabularyField>
      <vocabularyField>Marine</vocabularyField>
      <vocabularyField>Terrestrial biosphere</vocabularyField>
      <vocabularyField>Geosphere and Landsurface</vocabularyField>
    </vocabulary>
    <tagging create="true" separator=" - " onFieldName_onValue</tagging>
  </metadatafield>

  <metadatafield categoryref="itineris_basic">
    <fieldName>Research Infrastructure</fieldName>
    <mandatory>true</mandatory>
    <dataType>String</dataType>
    <maxOccurs>1</maxOccurs>
    <note>Abbreviation or short name of the RI</note>
    <vocabulary isMultiSelection="false">
      <vocabularyField>ACTRIS</vocabularyField>
      <vocabularyField>ICOS</vocabularyField>
      <vocabularyField>SIOS</vocabularyField>
      <vocabularyField>EUFAR</vocabularyField>
      <vocabularyField>CeTrA</vocabularyField>
      <vocabularyField>Danubius</vocabularyField>
      <vocabularyField>GeoSciencesIR</vocabularyField>
      <vocabularyField>EURO ARGO</vocabularyField>
      <vocabularyField>N/R Laura Bassi</vocabularyField>
      <vocabularyField>Eurofleets</vocabularyField>
      <vocabularyField>LNS</vocabularyField>
      <vocabularyField>EMSO</vocabularyField>
      <vocabularyField>Jerico</vocabularyField>
      <vocabularyField>eLTER</vocabularyField>
      <vocabularyField>LifeWatch</vocabularyField>
      <vocabularyField>DISSCO</vocabularyField>
      <vocabularyField>IBISBA</vocabularyField>
      <vocabularyField>EMPHASIS</vocabularyField>
      <vocabularyField>AnaEE</vocabularyField>
      <vocabularyField>ECORD</vocabularyField>
      <vocabularyField>ATLaS</vocabularyField>
      <vocabularyField>SMINO</vocabularyField>
      <vocabularyField>ITINERIS</vocabularyField>
    </vocabulary>
    <grouping create="true" onValue</grouping>
  </metadatafield>

  <metadatafield categoryref="itineris_basic">
    <fieldName>Website</fieldName>
    <mandatory>true</mandatory>
    <dataType>String</dataType>
    <maxOccurs>1</maxOccurs>
    <note>Url to the main webpage whit information about the RI</note>
    <validator>
      <regularExpression>^(https?://)?(www\.)?[\w-]+(\.[\w-]+)+([/?#][^s]*)?$</regularExpression>
    </validator>
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    <dataType>Boolean</dataType>
    <maxOccurs>1</maxOccurs>
    <note>Check the box if RI is a legal entity</note>
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  <metadatafield categoryref="itineris_basic">
    <fieldName>Legal status</fieldName>
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<mandatory>>false</mandatory>
<dataType>String</dataType>
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<note>Select the legal status of the RI. Legal status is usually indicated in the registration
act/statute. For independent legal entities (1) insert the legal status of the RI. For embedded RIs (2) insert
the legal status of the hosting legal entity. It is also possible to select Not a legal entity.</note>
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  <vocabularyField>Corporation</vocabularyField>
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  <vocabularyField>European Economic Interest Grouping (EEIG)</vocabularyField>
  <vocabularyField>European Research Infrastructure Consortium (ERIC)</vocabularyField>
  <vocabularyField>Corporation</vocabularyField>
  <vocabularyField>European Cooperative Society (SCE)</vocabularyField>
  <vocabularyField>Foundation</vocabularyField>
  <vocabularyField>Grouping</vocabularyField>
  <vocabularyField>International or intergovernmental organisation or framework</vocabularyField>
  <vocabularyField>Non For Profit Company </vocabularyField>
  <vocabularyField>Non-Governmental Organisation</vocabularyField>
  <vocabularyField>Not a legal entity</vocabularyField>
  <vocabularyField>Other</vocabularyField>
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  <vocabularyField>Private Company</vocabularyField>
  <vocabularyField>Public Company</vocabularyField>
  <vocabularyField>Public Legal Entity</vocabularyField>
  <vocabularyField>Public Legal Entity under Private Law</vocabularyField>
  <vocabularyField>Self Employed </vocabularyField>
  <vocabularyField>Society</vocabularyField>
  <vocabularyField>Trust</vocabularyField>
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  <note>Name of the organisation/institution legally hosting (housing) the research infrastructure or its
coordinating centre. A distinction is made between: (1) RIs that are self-standing and have a defined and distinct
legal entity, (2) RIs that are embedded into another institution which is a legal entity (such as a university, a
research organisation, etc.). If (1) insert the name of the RI, If (2) insert the ROR id or the name of the
hosting organization. For ROR id please visit: https://ror.org/ </note>
  <validator>
    <regularExpression>.{2,80}$</regularExpression>
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  <note>A high-level description of the RI in fairly non-technical terms, with the vision, mission,
objectives, background, experience.</note>
  <validator>
    <regularExpression>.{5,2000}$</regularExpression>
  </validator>
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  <fieldName>Logo</fieldName>
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  <note>Url to RI logo/visual identity</note>
  <validator>
    <regularExpression>^(https?:/)?(www\.)?[\w-]+(\.[\w-]+)+([/?#][^s]*)?$</regularExpression>
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    <vocabularyField>Engineering & Technology. Civil Engineering</vocabularyField>
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Engineering</vocabularyField>
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    <vocabularyField>Engineering & Technology. Industrial Biotechnology</vocabularyField>
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    <vocabularyField>Engineering & Technology. Medical Engineering</vocabularyField>
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    <vocabularyField>Engineering & Technology. Other Engineering & Technology
Sciences</vocabularyField>
    <vocabularyField>Generic. Generic</vocabularyField>
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    <vocabularyField>Humanities. History & Archaeology</vocabularyField>
    <vocabularyField>Humanities. Languages & Literature</vocabularyField>
    <vocabularyField>Humanities. Other Humanities</vocabularyField>
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    <vocabularyField>Natural Sciences. Earth & Related Environmental Sciences</vocabularyField>
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  <vocabulary isMultiSelection="false">
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case of distributed, virtual, and mobile providers.</note>
    <validator>
      <regularExpression>.{1,50}$</regularExpression>
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    <note>Postal code of incorporation or Physical location of the RI or its coordinating centre in the case
of distributed, virtual, and mobile providers.</note>
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    <note>Country of incorporation or Physical location of the RI or its coordinating centre in the case of
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    <maxOccurs>1</maxOccurs>
    <note>First Name of the RI's main contact person/RI manager</note>
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      <regularExpression>.{1,50}$</regularExpression>
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    <note>Last Name of the RI's main contact person/RI manager</note>
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    <note>Email of the RI's main contact person/RI manager</note>
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    <note>Phone of the RI's main contact person/RI manager</note>
    <validator>
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    </validator>
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  <metadataField categoryref="itineris_dependencies">
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    <note>Research Infrastructures that are funded by several countries should list here all supporting
    countries (including the Coordinating country)</note>
    <vocabulary isMultiSelection="false">
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      <vocabularyField>Albania</vocabularyField>
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      <vocabularyField>American Samoa</vocabularyField>
      <vocabularyField>Andorra</vocabularyField>
      <vocabularyField>Angola</vocabularyField>
      <vocabularyField>Anguilla</vocabularyField>
      <vocabularyField>Antarctica</vocabularyField>
      <vocabularyField>Antigua and Barbuda</vocabularyField>
      <vocabularyField>Argentina</vocabularyField>
      <vocabularyField>Armenia</vocabularyField>
      <vocabularyField>Aruba</vocabularyField>
      <vocabularyField>Australia</vocabularyField>
      <vocabularyField>Austria</vocabularyField>
      <vocabularyField>Azerbaijan</vocabularyField>
      <vocabularyField>Bahamas (the)</vocabularyField>
      <vocabularyField>Bahrain</vocabularyField>
      <vocabularyField>Bangladesh</vocabularyField>
      <vocabularyField>Barbados</vocabularyField>
      <vocabularyField>Belarus</vocabularyField>
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 <vocabularyField>Greenland</vocabularyField>  
 <vocabularyField>Grenada</vocabularyField>  
 <vocabularyField>Guadeloupe</vocabularyField>  
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<vocabularyField>Kazakhstan</vocabularyField>
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<vocabularyField>Kiribati</vocabularyField>
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<vocabularyField>Korea (the Republic of)</vocabularyField>
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<vocabularyField>Réunion</vocabularyField>
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<vocabularyField>Saint Helena, Ascension and Tristan da Cunha</vocabularyField>
<vocabularyField>Saint Kitts and Nevis</vocabularyField>
<vocabularyField>Saint Lucia</vocabularyField>
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<vocabularyField>Saint Pierre and Miquelon</vocabularyField>
<vocabularyField>Saint Vincent and the Grenadines</vocabularyField>
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<vocabularyField>Singapore</vocabularyField>
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<vocabularyField>Uruguay</vocabularyField>
<vocabularyField>Uzbekistan</vocabularyField>
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<vocabularyField>Virgin Islands (U.S.)</vocabularyField>
<vocabularyField>Wallis and Futuna</vocabularyField>
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<vocabularyField>Yemen</vocabularyField>
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<maxOccurs>*</maxOccurs>
<note>RIs that are members or affiliated or associated with other organisations should list those
organisations here.</note>
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  <maxOccurs>1</maxOccurs>
  <note>The Catalogue of this RI is originally registered at: website</note>
  <validator>
    <regularExpression>^(https?:/)?(www\.)?[\w-]+(\.[\w-]+)+([/?#][^\s]*)?$</regularExpression>
  </validator>
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  <fieldName>Life cycle status</fieldName>
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  <note>Current status of the Provider/RI life-cycle</note>
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    <vocabularyField>Under Construction</vocabularyField>
    <vocabularyField>Being Upgraded</vocabularyField>
    <vocabularyField>Other</vocabularyField>
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<metadataField categoryref="itineris_maturity">
  <fieldName>Certification</fieldName>
  <mandatory>>false</mandatory>
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  <note>List of certifications obtained for the RI (including the certification body, the certificate number
or URL if available).</note>
</metadataField>

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  <maxOccurs>*</maxOccurs>
  <note>ESFRI domain classification</note>
  <vocabulary isMultiSelection="false">
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    <vocabularyField>Environment</vocabularyField>
    <vocabularyField>Health & Food</vocabularyField>
    <vocabularyField>Physical Sciences & Engineering</vocabularyField>
    <vocabularyField>Social & Cultural Innovation</vocabularyField>
    <vocabularyField>Data, Computing and Digital Research Infrastructures</vocabularyField>
    <vocabularyField>Other</vocabularyField>
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<metadataField categoryref="itineris_other">
  <fieldName>ESFRI type</fieldName>
  <mandatory>>false</mandatory>
  <dataType>String</dataType>
  <maxOccurs>1</maxOccurs>
  <note>If the RI is (part of) an ESFRI project indicate how the RI participates: (a) is a node of an ESFRI
project, (b) is an ESFRI project, (c) is an ESFRI landmark, (d) is not an ESFRI project or (e) landmark.</note>
  <vocabulary isMultiSelection="false">
    <vocabularyField>Node</vocabularyField>
    <vocabularyField>Project</vocabularyField>
    <vocabularyField>Landmark</vocabularyField>
    <vocabularyField>Not ESFRI</vocabularyField>
    <vocabularyField>Other</vocabularyField>
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<metadataField categoryref="itineris_other">
  <fieldName>MERIL scientific domain</fieldName>
  <mandatory>>false</mandatory>
  <dataType>String</dataType>
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<maxOccurs>*</maxOccurs>
<note>MERIL scientific domain / subdomain classification</note>
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  <vocubularyField>Biological & Medical Sciences</vocubularyField>
  <vocubularyField>Chemistry and Material Sciences</vocubularyField>
  <vocubularyField>Earth and Environmental Sciences</vocubularyField>
  <vocubularyField>Engineering & Energy</vocubularyField>
  <vocubularyField>Humanities & Arts</vocubularyField>
  <vocubularyField>Information Science & Technology</vocubularyField>
  <vocubularyField>Physics, Astronomy, Astrophysics and Mathematics</vocubularyField>
  <vocubularyField>Social Sciences</vocubularyField>
  <vocubularyField>Other</vocubularyField>
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  <fieldName>Areas of activity</fieldName>
  <mandatory>>false</mandatory>
  <dataType>String</dataType>
  <maxOccurs>*</maxOccurs>
  <note>Basic research, Applied research or Technological development</note>
  <vocubulary isMultiSelection="false">
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    <vocubularyField>Applied research</vocubularyField>
    <vocubularyField>Technological development</vocubularyField>
    <vocubularyField>Other</vocubularyField>
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  <maxOccurs>*</maxOccurs>
  <note>RI's participation in the Grand Societal Challenges defined by the European Commission</note>
  <vocubulary isMultiSelection="false">
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    <vocubularyField>Energy</vocubularyField>
    <vocubularyField>Secure Societies</vocubularyField>
    <vocubularyField>Wellbeing</vocubularyField>
    <vocubularyField>Natural Resources</vocubularyField>
    <vocubularyField>Europe in a changing world</vocubularyField>
    <vocubularyField>Environment</vocubularyField>
    <vocubularyField>Other</vocubularyField>
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  <note>Check the box if RI participating in a national roadmap.</note>
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## 11.2. Provider

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    <note>Select one or more RI(s) associated with the provider </note>
    <vocubulary isMultiSelection="false">
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      <vocubularyField>ICOS</vocubularyField>
      <vocubularyField>SIOS</vocubularyField>
      <vocubularyField>EUFAR</vocubularyField>
      <vocubularyField>CeTrA</vocubularyField>
      <vocubularyField>Danubius</vocubularyField>
      <vocubularyField>GeoSciencesIR</vocubularyField>
      <vocubularyField>EURO_ARGO</vocubularyField>
      <vocubularyField>N/R Laura Bassi</vocubularyField>
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    <vocabularyField>Eurofleets</vocabularyField>
    <vocabularyField>LNS</vocabularyField>
    <vocabularyField>EMSO</vocabularyField>
    <vocabularyField>Jerico</vocabularyField>
    <vocabularyField>eLTER</vocabularyField>
    <vocabularyField>LifeWatch</vocabularyField>
    <vocabularyField>DISSCO</vocabularyField>
    <vocabularyField>IBISBA</vocabularyField>
    <vocabularyField>EMPHASIS</vocabularyField>
    <vocabularyField>AnaEE</vocabularyField>
    <vocabularyField>ECORD</vocabularyField>
    <vocabularyField>ATLaS</vocabularyField>
    <vocabularyField>SMINO</vocabularyField>
    <vocabularyField>ITINERIS</vocabularyField>
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  <note>Full name of the provider offering the resource and acting as main contact point</note>
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  </validator>
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  <note>Select the acronym of the provider described from the list. If the provider is not listed, select
"other" and add it in the custom field.</note>
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  <note>Select the legal status of the Provider. The legal status is usually noted in the registration
act/statutes. For independent legal entities (1) insert the legal status of the Provider. For embedded providers
(2) insert the legal status of the hosting legal entity. It is also possible to select Not a legal entity.</note>
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  <note>Name of the organisation/institution legally hosting (housing) the provider or its coordinating
centre. A distinction is made between: (1) providers that are self-standing and have a defined and distinct legal
entity, (2) providers that are embedded into another institution which is a legal entity (such as a university, a
research organisation, etc.). If (1) insert the name of the provider, If (2) insert the ROR id of the organization
or the name of the hosting organisation. For ROR id please visit: https://ror.org/ </note>
  <validator>
    <regularExpression>.{2,80}$</regularExpression>
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provider contributes to more than one research infrastructure, the description will be expanded to include the
roles performed within the other RIs.</note>
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    <vocabularyField>Generic</vocabularyField>
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    <vocabularyField>Medical & Health Sciences</vocabularyField>
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    <vocabularyField>Engineering & Technology. Nanotechnology</vocabularyField>
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    <vocabularyField>Humanities. History & Archaeology</vocabularyField>
    <vocabularyField>Humanities. Languages & Literature</vocabularyField>
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<note>Defines the Provider structure type (single-sited, distributed, mobile, virtual, etc.)</note>
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case of distributed, virtual, and mobile providers.</note>
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mario.rossi@rossi.it)</note>
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### 11.3. Service/VRE

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    <note>An abbreviation of the Service/Resource Name as assigned by the Provider</note>
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in a federated scenario. </note>
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      <vocabularyField>ICOS</vocabularyField>
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      <vocabularyField>LNS</vocabularyField>
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      <vocabularyField>Jerico</vocabularyField>
      <vocabularyField>eLTER</vocabularyField>
      <vocabularyField>LifeWatch</vocabularyField>
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      <vocabularyField>IBISBA</vocabularyField>
      <vocabularyField>EMPHASIS</vocabularyField>
      <vocabularyField>AnaEE</vocabularyField>
      <vocabularyField>ECORD</vocabularyField>
      <vocabularyField>ATLaS</vocabularyField>
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service/resource, in a federated scenario. Please insert the name of the organization and/or the ROR id
(https://ror.org/). For example: CNR-IMAA rorID: https://ror.org/024ye7w89</note>
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  <note>A high-level description in fairly non-technical terms of a) what the Service does, functionality it
provides and Resources it enables to access, b) the benefit to a user/customer delivered by a Resource; benefits
are usually related to alleviating pains (e.g., eliminate undesired outcomes, obstacles or risks) or producing
gains (e.g. increased performance, social gains, positive emotions or cost saving), c)list of customers,
communities, users, etc. using the Service</note>
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  <note>Link to the logo/visual identity of the Resource. The logo will be visible at the Portal. If there
is no specific logo for the Resource the logo of the Provider may be used.</note>
  <validator>
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  <note>Link to video, slideshow, photos, screenshots with details of the Provider.</note>
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    <vocabularyField>Humanities. History & Archaeology</vocabularyField>
    <vocabularyField>Humanities. Languages & Literature</vocabularyField>
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    <vocabularyField>Aggregators and integrators</vocabularyField>
    <vocabularyField>Other</vocabularyField>
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    <vocabularyField>Security and operations</vocabularyField>
    <vocabularyField>Sharing and discovery</vocabularyField>
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    <vocabularyField>Processing and analysis. Data management</vocabularyField>
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services</vocabularyField>
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    <vocabularyField>3 - experimental proof of concept</vocabularyField>
    <vocabularyField>4 - technology validated in lab</vocabularyField>
    <vocabularyField>5 - technology validated in relevant environment</vocabularyField>
    <vocabularyField>6 - technology demonstrated in relevant environment</vocabularyField>
    <vocabularyField>7 - system prototype demonstration in operational environment</vocabularyField>
    <vocabularyField>8 - system complete and qualified</vocabularyField>
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## 11.4. Research products

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institutional repository or national aggregator or CRIS system from which this record was collected. Country of
affiliations of authors can be found instead in the affiliation relation.</note>
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    <vocabularyField>Patent</vocabularyField>
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    <note>The journal volume.</note>
    <validator>
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```

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    <note>The URLs to the software documentation.</note>
    <validator>
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    <note>The URL to the repository with the source code.</note>
    <validator>
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    <note>The programming language. For example: Python, Java, JavaScript, C/C++ etc.</note>
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    </validator>
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      <vocabularyField>Lecture</vocabularyField>
      <vocabularyField>Annotation</vocabularyField>
      <vocabularyField>Other ORP type</vocabularyField>
      <vocabularyField>Event</vocabularyField>
      <vocabularyField>Film</vocabularyField>
      <vocabularyField>Image</vocabularyField>
      <vocabularyField>InteractiveResource</vocabularyField>
      <vocabularyField>Model</vocabularyField>
      <vocabularyField>PhysicalObject</vocabularyField>
      <vocabularyField>Sound</vocabularyField>
      <vocabularyField>Audiovisual</vocabularyField>
      <vocabularyField>Virtual Appliance</vocabularyField>
      <vocabularyField>Research Object</vocabularyField>
      <vocabularyField>Research Activity</vocabularyField>
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  <metadataField categoryref="itineris_other_research_product">
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    <note>Information on the person responsible for providing further information regarding the resource (Name Surname).</note>
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    <note>Information about tool useful for the interpretation and/or re-use of the research product.</note>
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## 11.5. Training resources

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    <note>The human readable name of the learning resource.</note>
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    delivery in a federated scenario.</note>
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      <vocabularyField>ICOS</vocabularyField>
      <vocabularyField>SIOS</vocabularyField>
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      <vocabularyField>CeTrA</vocabularyField>
      <vocabularyField>Danubius</vocabularyField>
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      <vocabularyField>N/R Laura Bassi</vocabularyField>
      <vocabularyField>Eurofleets</vocabularyField>
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      <vocabularyField>EMSO</vocabularyField>
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      <vocabularyField>eLTER</vocabularyField>
      <vocabularyField>LifeWatch</vocabularyField>
      <vocabularyField>DISSCO</vocabularyField>
      <vocabularyField>IBISBA</vocabularyField>
      <vocabularyField>EMPHASIS</vocabularyField>
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      <vocabularyField>ECORD</vocabularyField>
      <vocabularyField>ATLaS</vocabularyField>
      <vocabularyField>SMINO</vocabularyField>
      <vocabularyField>ITINERIS</vocabularyField>
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    <note>Select the the Provider(s) that manage or deliver the Resource in federated scenarios. If the
    provider is not listed, select "other" and add it in the custom field.</note>
    <vocabulary isMultiSelection="false">
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      <vocabularyField>ARPA VDA</vocabularyField>
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<vocabularyField>OGS-CRS</vocabularyField>
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<vocabularyField>UNIPD</vocabularyField>
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  <note>The name of entity(ies) authoring the resource.</note>
  <validator>
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  <note>The URL that resolves to the learning resource or to a "landing page" for the resource that contains
important contextual information including the direct resolvable link to the resource, if applicable.</note>
  <validator>
    <regularExpression>^(https?:/)?(www\.)?[\w\-\+](\.[\w\-\+])+([/?#][^\s]*)?$</regularExpression>
  </validator>
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  <fieldName>urlType</fieldName>
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  <dataType>String</dataType>
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  <note>The designation of identifier scheme used for the resource URL. It represents the type of the URL of
the resource, that is the used scheme (e.g., Web Address URL, DOI, ARK, etc.).</note>
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    <vocabularyField>DOI</vocabularyField>
    <vocabularyField>HANDLE</vocabularyField>
    <vocabularyField>URN</vocabularyField>
    <vocabularyField>URI</vocabularyField>
    <vocabularyField>URL</vocabularyField>
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  <note>A brief synopsis about or description of the learning resource.</note>
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  <note>A license document that applies to this content, typically indicated by URL.</note>
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  <note>The access status of a resource (open, restricted, paid).</note>
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    <vocabularyField>Restricted access</vocabularyField>
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  <note>The version date for the most recently published or broadcast resource (YYYY-MM-DD)</note>
  <validator>
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  </validator>
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    <vocabularyField>Research communities</vocabularyField>
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    <vocabularyField>Research networks</vocabularyField>
    <vocabularyField>Research managers</vocabularyField>
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    <vocabularyField>Students</vocabularyField>
    <vocabularyField>Innovators</vocabularyField>
    <vocabularyField>Businesses</vocabularyField>
    <vocabularyField>Providers</vocabularyField>
    <vocabularyField>Funders</vocabularyField>
    <vocabularyField>Policy Makers</vocabularyField>
    <vocabularyField>Research Infrastructure Managers</vocabularyField>
    <vocabularyField>Provider Managers</vocabularyField>
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  <note>The predominant type or kind that characterizes the learning resource.</note>
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    <vocabularyField>Assessment</vocabularyField>
    <vocabularyField>Assessment item</vocabularyField>
    <vocabularyField>Educator curriculum guide</vocabularyField>
    <vocabularyField>Lesson plan</vocabularyField>
    <vocabularyField>Physical learning resource</vocabularyField>
    <vocabularyField>Recorded lesson</vocabularyField>
    <vocabularyField>Supporting document</vocabularyField>
    <vocabularyField>Textbook</vocabularyField>
    <vocabularyField>Unit plan</vocabularyField>
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  <note>The descriptions of what knowledge, skills or abilities students should acquire on completion of the
resource.</note>
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    <vocabularyField>Multimedia</vocabularyField>
    <vocabularyField>Poster</vocabularyField>
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    <vocabularyField>Text</vocabularyField>
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resource.</note>
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  <note>Approximate or typical time it takes to work with or through the learning resource for the typical
intended target audience.</note>
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    <vocabularyField>Arabic (ar)</vocabularyField>
    <vocabularyField>Aragonese (an)</vocabularyField>
    <vocabularyField>Armenian (hy)</vocabularyField>
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    <vocabularyField>Azerbaijani (az)</vocabularyField>
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    <vocabularyField>Bashkir (ba)</vocabularyField>
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    <vocabularyField>Natural Sciences. Computer & Information Sciences</vocabularyField>
    <vocabularyField>Natural Sciences. Earth & Related Environmental Sciences</vocabularyField>
    <vocabularyField>Natural Sciences. Mathematics</vocabularyField>
    <vocabularyField>Natural Sciences. Physical Sciences</vocabularyField>
    <vocabularyField>Natural Sciences. Other Natural Sciences</vocabularyField>
    <vocabularyField>Social Sciences. Economics & Business</vocabularyField>
    <vocabularyField>Social Sciences. Educational Sciences</vocabularyField>
    <vocabularyField>Social Sciences. Law</vocabularyField>
    <vocabularyField>Social Sciences. Media & Communications</vocabularyField>
    <vocabularyField>Social Sciences. Political Sciences</vocabularyField>
    <vocabularyField>Social Sciences. Psychology</vocabularyField>
    <vocabularyField>Social Sciences. Social & Economic Geography</vocabularyField>
    <vocabularyField>Social Sciences. Sociology</vocabularyField>
    <vocabularyField>Social Sciences. Other Social Sciences</vocabularyField>
    <vocabularyField>Other. Other</vocabularyField>
  </vocabulary>
</metadataField>

<metadataField categoryref="itineris_contact">
  <fieldName>First Name</fieldName>
  <mandatory>true</mandatory>
  <dataType>String</dataType>
  <maxOccurs>1</maxOccurs>
  <note>First Name of the Resource's main contact person/manager.</note>
  <validator>
    <regularExpression>.{1,50}$</regularExpression>
  </validator>
</metadataField>

<metadataField categoryref="itineris_contact">
  <fieldName>Last Name</fieldName>
  <mandatory>true</mandatory>
  <dataType>String</dataType>
  <maxOccurs>1</maxOccurs>
  <note>Last Name of the Resource's main contact person/manager.</note>
  <validator>
    <regularExpression>.{1,50}$</regularExpression>
  </validator>
</metadataField>

<metadataField categoryref="itineris_contact">
  <fieldName>Email</fieldName>
  <mandatory>true</mandatory>
  <dataType>String</dataType>
  <maxOccurs>1</maxOccurs>
  <note>Email of the Resource's main contact person/manager.</note>
  <validator>
    <regularExpression>^[A-Za-z0-9+_-]+@[A-Za-z0-9-]+\.$</regularExpression>
  </validator>
</metadataField>

<metadataField categoryref="itineris_contact">
  <fieldName>Phone</fieldName>
  <mandatory>false</mandatory>
  <dataType>String</dataType>
  <maxOccurs>1</maxOccurs>
  <note>Telephone of the Resource's main contact person/manager.</note>
  <validator>
    <regularExpression>^(+\d{1,4}\s?)?( \(?\d{2,4}\) )?(\s-)?(\d{6,10})$</regularExpression>
  </validator>
</metadataField>

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<metadatafield categoryref="itineris_contact">
  <fieldName>Position</fieldName>
  <mandatory>>false</mandatory>
  <dataType>String</dataType>
  <maxOccurs>1</maxOccurs>
  <note>Position of the Resource's main contact person/manager.</note>
  <validator>
    <regularExpression>.{1,50}$</regularExpression>
  </validator>
</metadatafield>

<metadatafield categoryref="itineris_contact">
  <fieldName>Organization</fieldName>
  <mandatory>>false</mandatory>
  <dataType>String</dataType>
  <maxOccurs>1</maxOccurs>
  <note>The organisation to which the contact is affiliated.</note>
  <validator>
    <regularExpression>.{1,100}$</regularExpression>
  </validator>
</metadatafield>
</metadataformat>
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