EOSC Portal Profiles

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Abstract	EOSC Profiles are specifications that define common data models for EOSC entities (Providers, Resources, etc.) and related Code Lists, Taxonomies and Classifications. They contribute to the unified framework for describing and offering EOSC Resources to end-users in a harmonized way, guaranteeing the interoperability of resources metadata with open APIs. They allow automated exchange and management of the EOSC resource information and their accompanying data without human intervention (e.g., harvesting, etc).
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Credits	
Licences	

Introduction

One of the major challenges that the EOSC aims to address is the historical lack of Interoperable Online Catalogues of Research Resources that European Researchers could explore across Europe.

EOSC Profiles are specifications that define common data models for EOSC entities (Providers, Resources, etc.) and related Code Lists, Taxonomies and Classifications. They contribute to the unified framework for describing and offering EOSC Resources to end-users in a harmonized way, guaranteeing the interoperability of resources metadata with open APIs. They allow automated exchange and management of the EOSC resource information and their accompanying data without human intervention (e.g., harvesting, etc.).

Prior Efforts

The eInfraCentral project first recognised that a common approach to describing (Goal-1) and exchanging (Goal-2) Resource-related information is the way forward to enhance discoverability and thus potential uptake of Resources in a European single digital market for Research. eInfraCentral worked on this harmonisation in partnership with five key e-infrastructures: GÉANT, OpenAIRE, PRACE, EGI and EUDAT. The approach was to extend best practices followed independently and to enable the harmonisation of Resource descriptions to allow interoperability and the possibility for a common catalogue or a catalogue of catalogues.

Goal-1 was addressed by the EOSC Portal Profiles (previously known as Service Description Templates (SDT)) that are widely adopted as the de facto standard scheme for the representation of Resource-related information in the EOSC Catalogue. Profiles are simplified, reusable and extensible data models that capture the fundamental characteristics of a data entity in a context-neutral and syntax-neutral fashion. This document addresses the current status of the EOSC Portal Profiles.

Goal-2 was addressed by a rich set of Open REST API methods for the exchange of information among Providers' systems and Portals. The open APIs include methods and mechanisms for data acquisition (resource metadata, indicators, usage, etc.) from federated catalogues, to enable seamless synchronisation of content. The latest version of the EOSC Portal APIs are described in D3.2 - EOSC Portal Open APIs Specifications.

Thus, as depicted in the figure below, the EOSC Resource Providers (data, apps, instruments, etc.) will feed thematic, regional and other aggregators and in turn allow for the aggregated European Open Science Cloud Portal as an additional distribution channel.

This approach bore fruit with the launch of the eInfraCentral Portal in 2017 and later the EOSC-hub Portal and finally the EOSC Portal in November 2018 (with SDTv1.13). This work was extended within the EOSC Portal Collaboration Agreement of eInfraCentral, EOSC-hub and OpenAIRE-Advance and within CatRIS that extended this work to offerings by Research Infrastructures (RIs), Core Facilities (CFs) and Shared Scientific Resources (SSRs) (see Figure below).
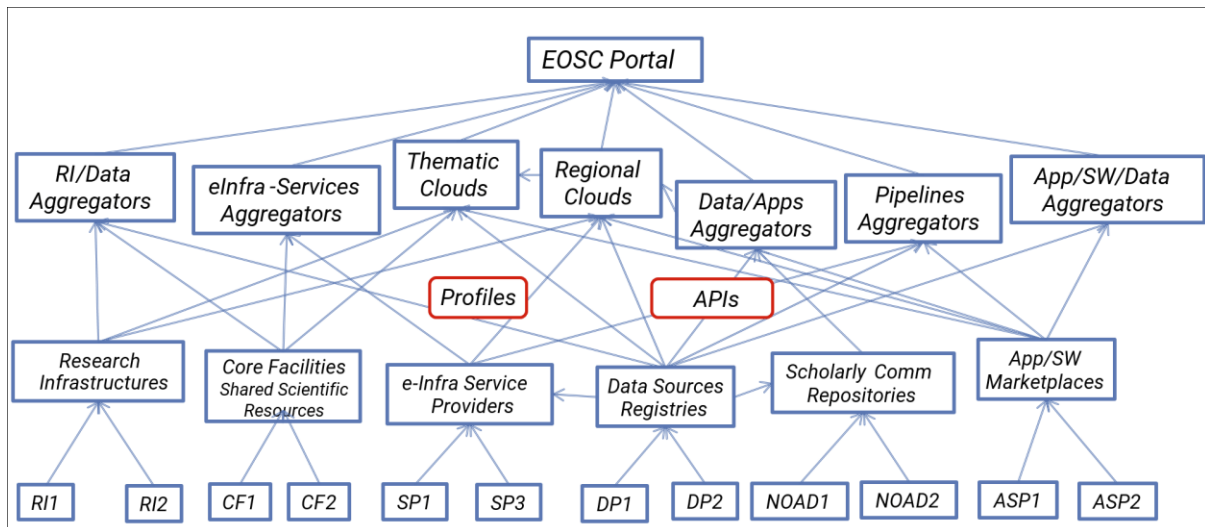
Figure 1: The EOSC Ecosystem

Note: App/SW/Data = Applications/Software/Data; App/SW = Applications/Software; RI = Research Infrastructures; CF = Core Facility; SP = Service Provider; DP = Data Provider; NOAD = National Open Access Desk; ASP = Application Software Provider. Source: JNP, eInfraCentral project.

Figure 2: Prior efforts on EOSC Profiles

EOSC Portal Profiles v3.00

Overall, the above set of concerted actions have led to the development of the EOSC Portal Profiles version v3.00 that were presented in EOSC Enhance D2.2 – EOSC Processes development and consensus. That version of the EOSC Profiles included two profiles; the **Provider Profile** and the **Resource Profile**, each addressing a different entity and a different phase of the onboarding, update, maintenance, and monitoring processes. The EOSC Portal Profiles v3.00 constituted them as one of the most significant components of the EOSC Interoperability Framework.

The Profiles provide definition of their attributes, their format/type (if any) and multiplicity, as well as whether the attribute is mandatory or optional for the implementation of several features in Catalogues.

They also provide validation rules for validation of input data. Each of these Profiles should have their respective separate online interfaces that will allow a Manager to keep them up to date at the Portal.

The Profiles also include an extensive number of Code lists, Taxonomies, Classifications that have been developed to provide a structured classification of Resources and a harmonized way for the description of various attributes. They also constitute the basis for the structure and the filtering functions of a (centralized) Catalogue, thus allowing for easy cross-referencing, comparability, and evaluation.

EOSC Portal Profiles v4.00

After v3.00 was adopted as a de facto standard in the ESOC ecosystem and deployed successfully at the EOSC Portal and by other EOSC stakeholders, EOSC Enhance received several Requests for Changes (RfCs) for the EOSC Portal Profiles. Those requirements are presented briefly below:

Jira ID	EOSC Portal Profiles' Request of Change (RfC)	Subject	Implementation
EOSCENR-165	Move Hosting Legal Entity from 'other' to 'basic info' in the provider profile.	Attribute	Up to 01/2022
EOSCENR-197	Add a new field for a very short resource name	Attribute	Up to 01/2022
EOSCENR-205	Adding description of Multimedia in the Marketing section of Resource Profile	Attribute	Up to 01/2022
EOSCENR-173	Values of ERP.DEI.3 (Related Platforms) controlled by EPOT	Attribute	In July 2022
EOSCENR-159	Profiles: Optional fields in Resource Profile: terms of use, privacy policy	Attribute	In July 2022
EOSCENR-175	Resource Profiles: add control values to FUNDERS and FUNDING PROGRAM	Controlled Values	Up to 01/2022
EOSCENR-223	Request to add values to the Funding bodies and programs-controlled vocabulary	Controlled Values	Up to 01/2022
EOSCENR-206	Minimum Service Maturity level as a Prerequisite for listing resources on the marketplace	Controlled Values	Up to 01/2022
EOSCENR-162	Provider > Location > Country should list only countries not 'Europe' and 'Worldwide	Controlled Values	Up to 01/2022
EOSCENR-177	New Values for Provider profile - Vocabulary	Controlled Values	Up to 01/2022
EOSCENR-225	Create a new Entity named 'Catalogue' and add the 'Catalogue' attribute to both Provider and Resource profiles	New Profile	In July 2022

Those requirements, as well as the need: a) to facilitate the onboarding and interoperability of the EOSC Portal to Multi-Provider Catalogues of Thematic and Regional Portals and, b) to describe additional resource types like Data Sources and Research Products, led to the update of the EOSC Portal Profiles and the issue of version v4.00.

The EOSC Profile updates to v4.00 can be grouped as:

- **Updates on the EOSC Provider and Resource Profiles v3.00:**

- o Few additions of new Attributes
- o Few changes of Attribute Requirement (mandatory/optional)
- o Some re-organisation of Attributes in Information Blocks
- o Few updates on Lists of Code Lists, Taxonomies, Classifications
- o Some changes of types of Attributes
- **An additional Profile introduced:**
  - o Multi-Provider Catalogue Profile
- **Additional extensions introduced:**
  - o Data Sources and Research Products

The changes introduced fall into two groups as noted in the table above:

1. the ones that have to be applied immediately, they are addressing operational issues or provide additional needed functionality and are backwards compatible (they do not impact the existing implementations and interoperability), and

2. those that are necessary enhancements but are not backwards compatible and as such, they must be announced before their implementation allowing a minimum period of six months (as per the Change Management Process) for the providers and other EOSC stakeholders to adjust their implementations and/or prepare to comply with the new specification requirement.

The EOSC Portal Profiles are part of the EOSC Interoperability Framework. The EOSC Interoperability Framework as a whole constitutes an important pillar to realise the EOSC vision and framework. It is an evolving specification, which will incorporate new features from the EOSC ecosystem as they emerge.

Version 4.00 of the EOSC Profiles include three profiles each addressing a different entity and a different phase of the onboarding, update, maintenance and monitoring processes of a Resource by a Provider: the **Provider Profile,** the **Resource Profile** and the **Multi-Provider Catalogue Profile**.

The EOSC Profiles provide definition of their attributes, their format/type (if any) and multiplicity, as well as whether the attribute is mandatory or optional for the implementation of a number of features in Catalogues. They also provide validation rules for validation of input data.

The EOSC Profiles include also Provider and Resource Code lists, Taxonomies, Classifications that have been developed to provide a structured classification of Resources and a harmonized way for the description of various attributes. They also constitute the basis for the structure and the filtering functions of an EOSC Catalogue.

EOSC Portal Profiles Data Model

Similarly to v3.00, the main building block within the Data Model in v4.00 is the Resource. A Resource is identified by a persistent unique ID, which is generated by the Portal during the EPOP. Furthermore, a Resource is described by a set of attributes as depicted in the Figure below.

A Resource is offered and managed by a Provider, identified by a Provider ID. A Provider is also described by a set of attributes. A Provider Manager is responsible to manage (add, update, maintain) the Provider's profile. A Resource Manager is responsible to manage (add, update, maintain) the Resource's profile.

A Resource is associated with one or more Options/Instantiations and Performance Indicators (Resource Level Targets), which are used for defining indicator measurements. A Resource is characterised by a set of usage statistics collected by the Portal (e.g. the number of visits on a Resource page, number of orders on the Provider page, number of favourites, average ratings, etc.). These Statistics are reported to the Provider, who may report them to the Funder.

An Authenticated (registered) User is a user who can login in the Portal and generate events for a Resource, such as rate a Resource, add a Resource to the favourites, update a Resource, etc. An Authenticated User may belong to a Provider meaning they would be authorised to manage and monitor the Resources of that provider (e.g. add a Resource, update a Resource, etc).
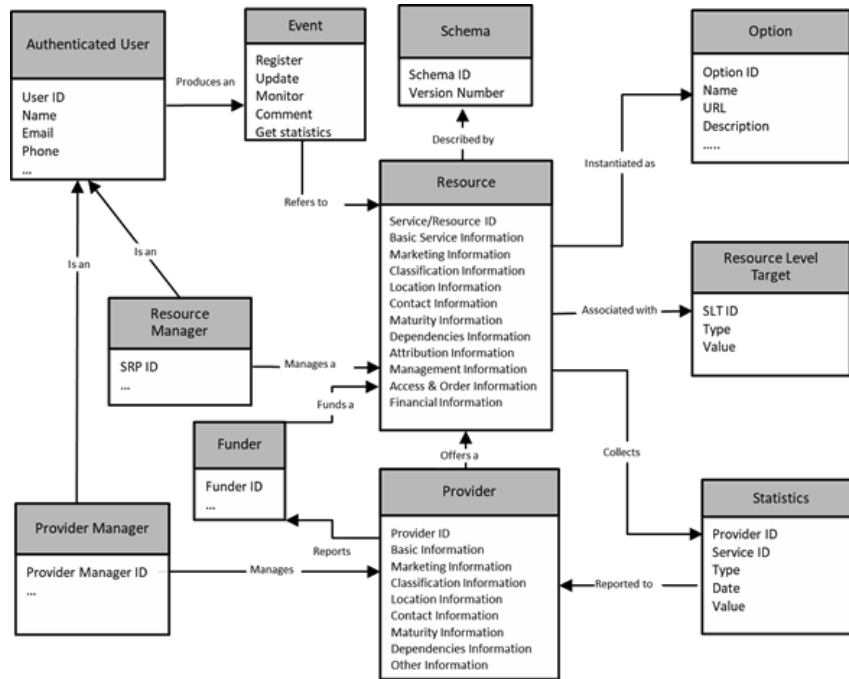
Figure 3: Overview of the EOSC Portal Data Model

EOSC Portal Profiles Representation Model

In the current implementation of the EOSC Portal all Providers and Resources are described by a structured set of metadata, well-defined by the EOSC Portal Profiles, instantiated in a JSON Schema and currently moving from v3.00 to v4.00.

The EOSC Portal Profiles have been widely accepted and embraced by EOSC projects and initiatives that want to integrate or correlate their catalogues with the EOSC Portal. Those developments underpin the need to implement and publish more formally the data models than publishing them in JSON or PDF formats.

The EOSC Portal does not currently provide a linked data endpoint, but EOSC Enhance has collaborated with the CATRIS project for making the list of vocabularies and classifications in the EOSC Portal Profiles, available in RDF format (SKOS). Even though the latter will ensure a consistency in the use of controlled values, it does not provide a holistic standard specification model that may assist software developers to build a fully compatible software code base with the latest EOSC Portal Profile version.

To address this gap, EOSC Enhance has initiated the development of a Unified Modelling Language (UML) representation of the EOSC Portal Profiles compatible with the existing software code base and this work continues in EOSC Future to be delivered in that context.

v4.00 EOSC Provider Profile Specification

Data Model

Basic Information						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
EPP.BAI.0	**ID**	A persistent identifier, a unique reference to the Provider in the context of the EOSC Portal.	String (max 30)	1	Mandatory	Yes
EPP.BAI.1	**Abbreviation**	An abbreviation of the Provider Name as assigned by the Provider.	String (max 30)	1	Mandatory	Yes
EPP.BAI.2	**Name**	Full Name of the Provider/Organisation offering the resource and acting as main contact point.	String (max 100)	1	Mandatory	Yes
EPP.BAI.3	**Website**	Website with information about the Provider.	URL	1	Mandatory	Yes
EPP.BAI.4	**Legal Entity**	A Y/N question to define whether the Provider is a Legal Entity or not.	Boolean	1	Mandatory	Yes
EPP.BAI.5	**Legal Status**	Legal status of the Provider. The legal status is usually noted in the registration act/statutes. For independent legal entities (1) - legal status of the Provider. For embedded providers (2) - legal status of the hosting legal entity. It is also possible to select Not a legal entity.	List of controlled values: EOSC Provider Profile v4.00 #Provider Legal Status	1	Optional	Yes
EPP.BAI.6	**Hosting Legal Entity**	Name of the organisation/institution legally hosting (housing) the provider/research infrastructure or its coordinating centre. A distinction is made between: (1) research infrastructures that are self-standing and have a defined and distinct legal entity, (2) research infrastructures that are embedded into another institution which is a legal entity (such as a university, a research organisation, etc.). If (1) - name of the research infrastructure, If (2) - name of the hosting organisation.	List of controlled values: EOSC Provider Profile v4.00 #Provider Hosting Legal Entity	1	Optional	Yes

Marketing Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
EPP.MRI.1	**Description**	A high-level description of the Provider in fairly non-technical terms, with the vision, mission, objectives, background, experience.	String (max 1000)	1	Mandatory	Yes
EPP.MRI.2	**Logo**	Link to the logo/visual identity of the Provider.	URL	1	Mandatory	Yes
EPP.MRI.3	**Multimedia**	Links to video, slideshow, photos, screenshots with details of the Provider.	URL	Multiple	Optional	Yes
EPP.MRI.4	**Multimedia Name**	Short description of the Multimedia content	String (Max 100)	Multiple	Optional	Yes

Classification Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
EPP.CLI.1	**Scientific Domain**	A named group of providers that offer access to the same type of resource or capabilities.	List of controlled values: <u>EOSC Provider Profile v4.00 #Provider Scientific Domain</u>	Multiple	Optional	Yes
EPP.CLI.2	**Scientific Subdomain**	A named group of providers that offer access to the same type of resource or capabilities, within the defined domain.	List of controlled values: <u>EOSC Provider Profile v4.00 #Provider Scientific Domain</u>	Multiple	Optional	Yes
EPP.CLI.3	**Tags**	Keywords associated to the Provider to simplify search by relevant keywords.	String (max 20)	Multiple	Optional	Yes
EPP.CLI.4	**Structure Type**	Defines the Provider structure type (single-sited, distributed, mobile, virtual, etc.)	List of controlled values: <u>EOSC Provider Profile v4.00 #Provider Structure Type</u>	Multiple	Optional	Yes

Location Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
EPP.L0I.1	**Street Name and Number**	Street and Number of incorporation or physical location of the Provider or its coordinating centre in the case of distributed, virtual, and mobile Providers.	String (max 50)	1	Mandatory	Yes
EPP.L0I.2	**Postal Code**	Postal code of incorporation or physical location of the Provider or its coordinating centre in the case of distributed, virtual, and mobile Providers.	String (max 20)	1	Mandatory	Yes
EPP.L0I.3	**City**	City of incorporation or physical location of the Provider or its coordinating centre in the case of distributed, virtual, and mobile Providers.	String (max 20)	1	Mandatory	Yes
EPP.L0I.4	**Region**	Region of incorporation or physical location of the Provider or its coordinating centre in the case of distributed, virtual, and mobile Providers.	String (max 50)	1	Optional	Yes
EPP.L0I.5	**Country**	Country of incorporation or physical location of the Provider or its coordinating centre in the case of distributed, virtual, and mobile Providers.	List of controlled values: <u>EOSC Provider Profile v4.00 #Provider Country</u>	1	Mandatory	Yes

Contact Information

Main Contact/Provider Manager

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
EPP.COI.1	**First Name**	First Name of the Provider's main contact person/Provider manager.	String (max 20)	1	Mandatory	No
EPP.COI.2	**Last Name**	Last Name of the Provider's main contact person/Provider manager.	String (max 20)	1	Optional	Yes
EPP.COI.3	**Email**	Email of the Provider's main contact person/Provider manager.	Email	1	Mandatory	No
EPP.COI.4	**Phone**	Phone of the Provider's main contact person/Provider manager.	String (max 20)	1	Optional	No

| EPP.COI.5 | **Position** | Position of the Provider's main contact person/Provider manager. | String (max 50) | 1 | Optional | No |

Public Contact

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
EPP.COI.6	**First Name**	First Name of the Provider's contact person to be displayed at the portal.	String (max 20)	1	Optional	Yes
EPP.COI.7	**Last Name**	Last Name of the Provider's contact person to be displayed at the portal.	String (max 20)	1	Optional	Yes
EPP.COI.8	**Email**	Email of the Provider's contact person to be displayed at the portal or general email to contact Provider.	Email	1	Mandatory	Yes
EPP.COI.9	**Phone**	Phone of the provider's contact person to be displayed at the portal or general phone to contact Provider.	String (max 20)	1	Optional	Yes
EPP.COI.10	**Position**	Position of the Provider's contact person to be displayed at the portal.	String (max 50)	1	Optional	Yes

Maturity Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
EPP.MTI.1	**Life Cycle Status**	Current status of the Provider life-cycle.	List of controlled values: EOSC Provider Profile v4.00 #Provider Life Cycle Status	1	Optional	Yes
EPP.MTI.2	**Certifications**	List of certifications obtained for the Provider (including the certification body, the certificate number or URL if available).	String (max 250)	Multiple	Optional	Yes

Dependencies Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
EPP.DEI.1	**Participating Countries**	Providers/Research Infrastructures that are funded by several countries should list here all supporting countries (including the Coordinating country).	List of controlled values: <u>EOSC Provider Profile v4.00 #Provider Country</u>	Multiple	Optional	Yes
EPP.DEI.2	**Affiliations**	Providers that are members or affiliated or associated with other organisations should list those organisations here	String (max 30)	Multiple	Optional	Yes
EPP.DEI.3	**Networks**	Providers that are members of networks should list those networks here.	List of controlled values: <u>EOSC Provider Profile v4.00 #Provider Network</u>	Multiple	Optional	Yes
EPP.DEI.4	**Catalogue**	The Catalogue this Provider is originally registered at.	Catalogue ID	1	Optional	Yes

Other Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
EPP.OTH.1	**ESFRI Domain**	ESFRI domain classification.	List of controlled values: <u>EOSC Provider Profile v4.00 #Provider ESFRI Domain</u>	Multiple	Optional	Yes
EPP.OTH.2	**ESFRI Type**	If the research infrastructure 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 landmark.	List of controlled values: <u>EOSC Provider Profile v4.00 #Provider ESFRI Type</u>	1	Optional	Yes
EPP.OTH.3	**MERIL Scientific Domain**	MERIL scientific domain classification	List of controlled values: <u>EOSC Provider Profile v4.00 #Provider MERIL Scientific Domain</u>	Multiple	Optional	Yes
EPP.OTH.4	**MERIL Scientific Subdomain**	MERIL scientific subdomain classification	List of controlled values: <u>EOSC Provider Profile v4.00 #Provider MERIL Scientific Domain</u>	Multiple	Optional	Yes
EPP.OTH.5	**Areas of Activity**	Basic research, Applied research or Technological development	List of controlled values:	Multiple	Optional	Yes

			EOSC Provider Profile v4.00 #Provider Area of Activity			
EPP.OTH.6	**Societal Grand Challenges**	Provider's participation in the grand societal challenges as defined by the European Commission	List of controlled values: EOSC Provider Profile v4.00 #Provider Societal Grand Challenges	Multiple	Optional	Yes
EPP.OTH.7	**National Roadmaps**	Provider's participation in a national roadmap.	String (max 80)	Multiple	Optional	Yes

Onboarding Guides

Basic Information

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
EPP.BAI.0	**ID**	embl-ebi	The Provider ID is currently maintained by the EOSC Portal. It is assigned during onboarding of the Provider. It is suggested to use the Provider's abbreviation (see EPP.BAI.2). Two providers cannot have the same id; therefore the EOSC Portal will resolve this when it happens during the registration of a provider. In next releases of the model, the id will correspond to a PID issued and resolved by PID providers (like ORCID, doi-like, etc).		
EPP.BAI.1	**Abbreviation**	Open Access Infrastructure for Research in Europe	The abbreviation of the Provider will be used in most cases, and will be what is displayed as the main name.		Verify via internet search that this is the relevant abbreviation (no typos or misspellings)
EPP.BAI.2	**Name**	Carl Zeiss	Suggested length is up to 100 characters		Verify via internet search if the Provider name is a valid

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
					organisation name and has a Website with the same FQDN.
EPP.BAI.3	**Website**	https://jelastic.com/	Provide the landing page (i.e. domain name or FQDN) of the sevice provider	Validate nominal FQDN, reject IP or other formats	Verify via website link, that is functional, in English and directs to the landing page of the Provider
EPP.BAI.4	**Legal Entity**	Y			
EPP.BAI.5	**Legal Status**	Non-Profit Partnership (NPP)	For suggestions in amending the "Legal Status" list, please select "Other", fill in your entry and press the "Submit" button		
EPP.BAI.6	**Hosting Legal Entity**	OpenAIRE	If Legal Entity is not Check then Hosting Legal Entity is Mandatory to be filled in. Also the Hosting Legal Entity must be selected from the list of Providers already registered in the EOSC Portal.		Verify the existence, name of the provided entity via an internet search

Marketing Information

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
EPP.MRI.1	**Description**	OpenAIRE represents a pivotal phase in the long-term effort to implement and strengthen the impact of the Open Access policies of the European Commission, building on the achievements of the OpenAIRE projects. OpenAIRE support and accelerate Open	Describe shortly the objective and background of your organisation.		Compare briefly to provider website to ensure content consistency, but generally take as is.

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
		Science and Scholarship, of which Open Access is of fundamental importance.			
EPP.MRI.2	**Logo**	https://www.openaire.eu/images/OpenAIRE_branding/Logo_Horizontal.png	Provide a URL pointing to the organisation's logo at high quality, in the form of the shortest possible alias	Validate nominal URL, reject IP or other formats For the resource located at the URL validate as follows: -Formats: png, gif, jpg, jpeg, pjpeg, tiff, vnd.adobe, vnd.microsoft -Minimum dimensions 180x120px	Verify it is a functional logo, pictures the logo of the provider, it is visible in a white background
EPP.MRI.3	**Multimedia**	https://vimeo.com/XYZ	Provide a URL pointing at a high quality video or slideshow, in the form of the shortest possible alias	Validate nominal URL, reject IP or other formats	Verify the URL is functional and points to a multimedia relevant to Provider info
EPP.MRI.4	**Multimedia Name**	Video of Resource interface	Suggested length is 100 characters		Verify the name is relevant to the multimedia content

Classification Information

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
EPP.CLI.1	**Scientific Domain**	Information Science and Technology	For suggestions in amending the "Scientific Domain" list, please select "Other", fill in your entry and press the "Submit" button		
EPP.CLI.2	**Scientific Subdomain**	Complex Data Facilities	For suggestions in amending the "Scientific Subdomain" list, please select "Other", fill in your entry and press the "Submit" button		

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
EPP.CLI.3	**Tags**	Open data, open science, publications, research papers	Add one Tag in each entry. For multi-word keywords, please use '-' to concatenate words. Suggested length is up to 20 characters	Validate keywords, by inserting '-' to concatenate words not separated by commas and identify as separate keywords words that are separated by commas	Validate tags are relevant and associated to the Provider
EPP.CLI.4	**Structure Type**	Virtual	For suggestions in amending the "Structure Type" list, please select "Other", fill in your entry and press the "Submit" button		

Location Information

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
EPP.L0I.1	**Street Name and Number**	Street 10	Suggested length is up to 50 characters		Verify the name and the number is associated to Provider's address
EPP.L0I.2	**Postal Code**	GR-12345	Suggested length is up to 20 characters		Verify the postal code is associated to Provider's address
EPP.L0I.3	**City**	Athens	Suggested length is up to 20 characters		Verify the City is associated to Provider's address
EPP.L0I.4	**Region**	Attica	Suggested length is up to 50 characters		Verify the region is associated to Provider's address
EPP.L0I.5	**Country**	Greece	For suggestions in amending the "Country" list, please select "Other", fill in your entry and press the "Submit" button		Verify the country is associated to Provider's address and investigate further when "other" is selected

Contact Information

Main Contact/Provider Manager

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
EPP.COI.1	**First Name**	John	Suggested length is up to 50 characters		Check for obvious typos in the name. Confirm with a google search of the name of the contact person
EPP.COI.2	**Last Name**	Smith	Suggested length is up to 50 characters		Check for obvious typos in the last name. Confirm with a google search of the last name of the contact person
EPP.COI.3	**Email**	john.smith@example.com		Validate e-mail address	Check for obvious typos in the email. Confirm with a google search of the email of the contact person
EPP.COI.4	**Phone**	(+30210) 1234567	Suggested length is up to 20 characters	Validate for number (use separate input field for country prefixes)	Check for obvious typos in the phone number and country code. Confirm with a google search of the phone of the contact person
EPP.COI.5	**Position**	Coordinator	Suggested length is up to 50 characters		Check for obvious typos in the position of the Provider contact person

Public Contact

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
EPP.COI.6	**First Name**	Jack	Suggested length is up to 20 characters		Check for obvious typos in the name. Confirm with a

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
					google search of the name of the contact person
EPP.COI.7	**Last Name**	White	Suggested length is up to 20 characters		Check for obvious typos in the last name. Confirm with a google search of the last name of the contact person
EPP.COI.8	**Email**	jack.white@example.com		Validate e-mail address	Check for obvious typos in the email. Confirm with a google search of the email of the contact person
EPP.COI.9	**Phone**	(+30210) 7890123	Suggested length is up to 20 characters	Validate for number (use separate input field for country prefixes)	Check for obvious typos in the phone number and country code. Confirm with a google search of the phone of the contact person
EPP.COI.10	**Position**	Manager	Suggested length is up to 50 characters		Check for obvious typos in the position of the Provider contact person

Maturity Information

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
EPP.MTI.1	**Life Cycle Status**	Operational	For suggestions in amending the "Life Cycle Status" list, please select "Other", fill in your entry and press the "Submit" button		
EPP.MTI.2	**Certifications**	ISO-27001	Suggested length is up to 250 characters		The certifications provided can be generic or community specific. We do not qualify the quality of a certification, the only qualification is that the certification is described on

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
					a public webpage. Verify via easy internet searches if the provided names give a valid result describing the certification. If not, request clarification and an URL reference describing the certification. Check whether the certification body is real and appears to offer certification.

Dependencies Information

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
EPP.DEI.1	**Participating Countries**	Germany, Italy, Poland, Switzerland, Portugal, Netherlands, Belgium, Norway, Uruguay	For suggestions in amending the "Participating Countries" list, please select "Other", fill in your entry and press the "Submit" button		Further investigate when "other" is selected
EPP.DEI.2	**Affiliations**	EGI, EUDAT, GEANT, OpenAIRE, etc.	Suggested length is up to 30 characters		Further investigate when "other" is selected
EPP.DEI.3	**Networks**	Open Access Infrastructure for Research in Europe (OpenAIRE)	For suggestions in amending the "Networks" list, please select "Other", fill in your entry and press the "Submit" button		
EPP.DEI.4	**Catalogue**	CatRIS			

Other Information

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation

EPP.OTH.1	**ESFRI Domain**	Data, Computing and Digital Research Infrastructures	For suggestions in amending the "ESFRI Domain" list, please select "Other", fill in your entry and press the "Submit" button		
EPP.OTH.2	**ESFRI Type**	Not and ESFRI project or landmark	For suggestions in amending the "ESFRI Type" list, please select "Other", fill in your entry and press the "Submit" button		
EPP.OTH.3	**MERIL Scientific Domain**	Humanities & Arts	For suggestions in amending the "MERIL Scientific Domain" list, please select "Other", fill in your entry and press the "Submit" button		
EPP.OTH.4	**MERIL Scientific Subdomain**	Collections	For suggestions in amending the "MERIL Scientific Subdomain" list, please select "Other", fill in your entry and press the "Submit" button		
EPP.OTH.5	**Areas of Activity**	Other	For suggestions in amending the "Area of Activity" list, please select "Other", fill in your entry and press the "Submit" button below		
EPP.OTH.6	**Societal Grand Challenges**	Other	For suggestions in amending the "Societal Grand Challenges" list, please select "Other", fill in your entry and press the "Submit" button below		
EPP.OTH.7	**National Roadmaps**	No	Suggested length is up to 80 characters		

Transition Guides

Basic Information				
Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
EPP.BAI.0	**ID**	No Change	*Copy*	

EPP.BAI.1	**Abbreviation**	No Change	*Copy*	
EPP.BAI.2	**Name**	No Change	*Copy*	
EPP.BAI.3	**Website**	No Change	*Copy*	
EPP.BAI.4	**Legal Entity**	No Change	*Copy*	
EPP.BAI.5	**Legal Status**	No Change	*Copy*	
EPP.BAI.6	**Hosting Legal Entity**	"Moved from Other Information Block EPP.OTH.1 and change of Type from String to List of controlled values"	*Copy*	01/01/2022

Marketing Information

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
EPP.MRI.1	**Description**	No Change	*Copy*	
EPP.MRI.2	**Logo**	No Change	*Copy*	
EPP.MRI.3	**Multimedia**	No Change	*Copy*	
EPP.MRI.4	**Multimedia Name**	**New Attribute**	Default value empty(null)	01/01/2022

Classification Information

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
EPP.CLI.1	**Scientific Domain**	No Change	*Copy*	
EPP.CLI.2	**Scientific Subdomain**	No Change	*Copy*	
EPP.CLI.3	**Tags**	No Change	*Copy*	
EPP.CLI.4	**Structure Type**	Moved from Other Information Block EPP.OTH.5	*Copy*	01/01/2022

Location Information

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
EPP.L0I.1	**Street Name and Number**	No Change	*Copy*	
EPP.L0I.2	**Postal Code**	No Change	*Copy*	
EPP.L0I.3	**City**	No Change	*Copy*	
EPP.L0I.4	**Region**	No Change	*Copy*	
EPP.L0I.5	**Country**	Exclude 2 controlled values from implementation	*Copy*	01/01/2022

Contact Information

Main Contact/Provider Manager

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
EPP.COI.1	**First Name**	No Change	*Copy*	
EPP.COI.2	**Last Name**	No Change	*Copy*	
EPP.COI.3	**Email**	No Change	*Copy*	
EPP.COI.4	**Phone**	No Change	*Copy*	
EPP.COI.5	**Position**	No Change	*Copy*	

Public Contact

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
EPP.COI.6	**First Name**	No Change	*Copy*	
EPP.COI.7	**Last Name**	No Change	*Copy*	
EPP.COI.8	**Email**	No Change	*Copy*	
EPP.COI.9	**Phone**	No Change	*Copy*	

EPP.COI.10	Position	No Change	*Copy*	

Maturity Information

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
EPP.MTI.1	Life Cycle Status	No Change	*Copy*	
EPP.MTI.2	Certifications	No Change	*Copy*	

Dependencies Information

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
EPP.DEI.1	Participating Countries	Moved from Other Information Block EPP.OTH.2	*Copy*	01/01/2022
EPP.DEI.2	Affiliations	Moved from Other Information Block EPP.OTH.3	*Copy*	01/01/2022
EPP.DEI.3	Networks	Moved from Other Information Block EPP.OTH.4	*Copy*	01/01/2022
EPP.DEI.4	Catalogue	New Attribute	Default value empty(null)	01/01/2022

Other Information

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
EPP.OTH.1	ESFRI Domain	No Change	*Copy*	
EPP.OTH.2	ESFRI Type	No Change	*Copy*	
EPP.OTH.3	MERIL Scientific Domain	No Change	*Copy*	
EPP.OTH.4	MERIL Scientific Subdomain	No Change	*Copy*	

EPP.OTH.5	Areas of Activity	No Change	*Copy*	
EPP.OTH.6	Societal Grand Challenges	No Change	*Copy*	
EPP.OTH.7	National Roadmaps	No Change	*Copy*	

v4.00 EOSC Resource Profile Tables

Data Model

Basic Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
ERP.BAI.0	**ID**	A persistent identifier, a unique reference to the Resource in the context of the EOSC Portal.	String (max 30)	1	Mandatory (Assigned by the EOSC Portal)	Yes
ERP.BAI.1	**Abbreviation**	An abbreviation of the Resource Name as assigned by the Provider	String (Max 20)	1	Mandatory	Yes
ERP.BAI.2	**Name**	Resource Full Name as assigned by the Provider.	String (max 80)	1	Mandatory	Yes
ERP.BAI.3	**Resource Organisation**	The name (or abbreviation) of the organisation that manages or delivers the resource, or that coordinates resource delivery in a federated scenario.	Provider ID	1	Mandatory (Filled in by the EOSC Portal)	Yes
ERP.BAI.4	**Resource Providers**	The name(s) (or abbreviation(s)) of Provider(s) that manage or deliver the Resource in federated scenarios.	Provider IDs	Multiple	Optional	Yes
ERP.BAI.5	**Webpage**	Webpage with information about the Resource usually hosted and maintained by the Provider.	URL	1	Mandatory	Yes

Marketing Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
ERP.MRI.1	**Description**	A high-level description in fairly non-technical terms of a) what the Resource 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	String (max 1000)	1	Mandatory	Yes

		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 Resource.				
ERP.MRI.2	**Tagline**	Short catch-phrase for marketing and advertising purposes. It will be usually displayed close to the Resource name and should refer to the main value or purpose of the Resource.	String (max 100)	1	Mandatory	Yes
ERP.MRI.3	**Logo**	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.	URL	1	Mandatory	Yes
ERP.MRI.4	**Multimedia**	Link to video, screenshots or slides showing details of the Resource.	URL	Multiple	Optional	Yes
ERP.MRI.5	**Multimedia Name**	Short description of the Multimedia content	String (Max 100)	Multiple	Optional	Yes
ERP.MRI.6	**Use Cases**	Link to use cases supported by this Resource.	URL	Multiple	Optional	Yes
ERP.MRI.7	**Use Cases Name**	Short description of the Use Case content	String (Max 100)	Multiple	Optional	Yes

Classification Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
ERP.CLI.1	**Scientific Domain**	The branch of science, scientific discipline that is related to the Resource.	List of controlled values: EOSC Resource Profile v4.00#Resource Scientific Domain	Multiple	Mandatory	Yes
ERP.CLI.2	**Scientific Subdomain**	The subbranch of science, scientific subdiscipline that is related to the Resource.	List of controlled values: EOSC Resource Profile v4.00#Resource Scientific SubDomain	Multiple	Mandatory	Yes

ERP.CLI.3	Category	A named group of Resources that offer access to the same type of Resources.	List of controlled values: EOSC Resource Profile v4.00#Resource Category	Multiple	Mandatory	Yes
ERP.CLI.4	Subcategory	A named group of Resources that offer access to the same type of Resources, within the defined Resource category.	List of controlled values: EOSC Resource Profile v4.00#Resource SubCategory	Multiple	Mandatory	Yes
ERP.CLI.5	Target Users	Type of users that commissions a Provider to deliver a Resource.	List of controlled values: EOSC Resource Profile v4.00#Resource Target Users	Multiple	Mandatory	Yes
ERP.CLI.6	Access Type	The way a user can access the Resource (Remote, Physical, Virtual, etc.).	List of controlled values: EOSC Resource Profile v4.00#Resource Access Type	Multiple	Optional	Yes
ERP.CLI.7	Access Mode	Eligibility/criteria for granting access to the Resource to users (excellence-based, free-conditionally, free etc.).	List of controlled values: EOSC Resource Profile v4.00#Resource Access Mode	Multiple	Optional	Yes
ERP.CLI.8	Tags	Keywords associated to the Resource to simplify search by relevant keywords.	String (max 50)	Multiple	Optional	Yes

Geographical and Language Availability Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
ERP.GLA.1	Geographical Availability	Locations where the Resource is offered.	List of controlled values: EOSC Resource Profile v4.00#Resource Geographical Availability	Multiple	Mandatory	Yes
ERP.GLA.2	Language Availability	Languages of the (user interface of the) Resource.	List of controlled values: EOSC Resource Profile v4.00#Resource Language Availability	Multiple	Mandatory	Yes

Resource Location Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
ERP.RLI.01	**Resource Geographic Location**	List of geographic locations where data, samples, etc. are stored and processed	List of controlled values: <u>EOSC Resource Profile v4.00#Resource Geographic Location</u>	Multiple	Optional	Yes

Contact Information

Main Contact/Resource Owner

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
ERP.COI.1	**First Name**	First Name of the Resource's main contact person/manager.	String (max 20)	1	Mandatory	No
ERP.COI.2	**Last Name**	Last Name of the Resource's main contact person/manager.	String (max 20)	1	Mandatory	No
ERP.COI.3	**Email**	Email of the Resource's main contact person/manager.	Email	1	Mandatory	No
ERP.COI.4	**Phone**	Telephone of the Resource's main contact person/manager.	String (max 20)	1	Optional	No
ERP.COI.5	**Position**	Position of the Resource's main contact person/manager.	String (max 20)	1	Optional	No
ERP.COI.6	**Organisation**	The organisation to which the contact is affiliated	String (max 50)	1	Optional	No

Public Contact

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
ERP.COI.7	**First Name**	First Name of the Resource's contact person to be displayed at the portal.	String (max 20)	1	Optional	Yes
ERP.COI.8	**Last Name**	Last Name of the Resource's contact person to be displayed at the portal.	String (max 20)	1	Optional	Yes
ERP.COI.9	**Email**	Email of the Resource's contact person or a generic email of the Provider to be displayed at the portal.	Email	1	Mandatory	Yes

ERP.COI.10	**Phone**	Telephone of the Resource's contact person to be displayed at the portal.	String (max 20)	1	Optional	Yes
ERP.COI.11	**Position**	Position of the Resource's contact person to be displayed at the portal.	String (max 20)	1	Optional	Yes
ERP.COI.12	**Organisation**	The organisation to which the contact is affiliated	String (max 50)	1	Optional	Yes

Other Contacts

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
ERP.COI.13	**Helpdesk Email**	The email to ask more information from the Provider about this Resource.	Email	1	Mandatory	Yes
ERP.COI.14	**Security Contact Email**	The email to contact the Provider for critical security issues about this Resource.	Email	1	Mandatory	No

Maturity Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
ERP.MTI.1	**Technology Readiness Level**	The Technology Readiness Level of the Resource (to be further updated in the context of the EOSC).	List of controlled values: <u>EOSC Resource Profile v4.00#Resource TRL</u>	1	Mandatory	Yes
ERP.MTI.2	**Life Cycle Status**	Phase of the Resource life-cycle.	List of controlled values:	1	Optional	Yes
ERP.MTI.3	**Certifications**	List of certifications obtained for the Resource (including the certification body).	String (max 100)	Multiple	Optional	Yes
ERP.MTI.4	**Standards**	List of standards supported by the Resource.	String (max 100)	Multiple	Optional	Yes
ERP.MTI.5	**Open Source Technologies**	List of open source technologies supported by the Resource.	String (max 100)	Multiple	Optional	Yes
ERP.MTI.6	**Version**	Version of the Resource that is in force.	String (max 10)	1	Optional	Yes
ERP.MTI.7	**Last Update**	Date of the latest update of the Resource.	Date (dd/mm/yyyy)	1	Optional	Yes

ERP.MTI.8	**Change Log**	Summary of the Resource features updated from the previous version.	String (max 1000)	Multiple	Optional	Yes

Dependencies Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
ERP.DEI.1	**Required Resources**	List of other Resources required to use this Resource.	Resource IDs	Multiple	Optional	Yes
ERP.DEI.2	**Related Resources**	List of other Resources that are commonly used with this Resource.	Resource IDs	Multiple	Optional	Yes
ERP.DEI.3	**Related Platforms**	List of suites or thematic platforms in which the Resource is engaged or Providers (Provider groups) contributing to this Resource.	List of controlled values:	Multiple	Optional	Yes
ERP.DEI.4	**Catalogue**	The Catalogue this Resource is originally registered at.	Catalogue ID	1	Optional	Yes

Attribution Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
ERP.ATI.1	**Funding Body**	Name of the funding body that supported the development and/or operation of the Resource.	List of controlled values: [EOSC Resource Profile v4.00#Resource Funding Body](#)	Multiple	Optional	Yes
ERP.ATI.2	**Funding Program**	Name of the funding program that supported the development and/or operation of the Resource.	List of controlled values: [EOSC Resource Profile v4.00#Resource Funding Program](#)	Multiple	Optional	Yes
ERP.ATI.3	**Grant/Project Name**	Name of the project that supported the development and/or operation of the Resource.	String (max 100)	Multiple	Optional	Yes

Management Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public

ERP.MGI.1	**Helpdesk Page**	The URL to a webpage to ask more information from the Provider about this Resource.	URL	1	Optional	Yes
ERP.MGI.2	**User Manual**	Link to the Resource user manual and documentation.	URL	1	Optional	Yes
ERP.MGI.3	**Terms Of Use**	Webpage describing the rules, Resource conditions and usage policy which one must agree to abide by in order to use the Resource.	URL	1	Mandatory	Yes
ERP.MGI.4	**Privacy Policy**	Link to the privacy policy applicable to the Resource.	URL	1	Mandatory	Yes
ERP.MGI.5	**Access Policy**	Information about the access policies that apply.	URL	1	Optional	Yes
ERP.MGI.6	**Resource Level**	Webpage with the information about the levels of performance that a Provider is expected to deliver.	URL	1	Optional	Yes
ERP.MGI.7	**Training Information**	Webpage to training information on the Resource.	URL	1	Optional	Yes
ERP.MGI.8	**Status Monitoring**	Webpage with monitoring information about this Resource	URL	1	Optional	Yes
ERP.MGI.9	**Maintenance**	Webpage with information about planned maintenance windows for this Resource	URL	1	Optional	Yes

Access and Order Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
ERP.AOI.1	**Order Type**	Information on the order type (requires an ordering procedure, or no ordering and if fully open or requires authentication)	List of controlled values: EOSC Resource Profile v4.00#Resource Order Type	1	Mandatory	Yes
ERP.AOI.2	**Order**	Webpage through which an order for the Resource can be placed	URL	1	Optional	Yes

Financial Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public

| ERP.FNI.1 | Payment Model | Webpage with the supported payment models and restrictions that apply to each of them | URL | 1 | Optional | Yes |
| ERP.FNI.2 | Pricing | Webpage with the information on the price scheme for this Resource in case the customer is charged for. | URL | 1 | Optional | Yes |

Onboarding Guide

Basic Information

Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.BAI.0	**ID**	openrisknet.squonk_computational_notebook	A provider does not need to provide this ID during registration or update. This is a unique ID which EOSC Portal assigns to a resource registered in the Registry and it is used to identify a resource in the EOSC portal. In next releases, Providers can use a PID; i.e., PID Providers will offer PID services to Resource Providers to reach a point that the EOSC portal will use global PIDs.	For all strings - implement a notification of exceeding max characters that does not prevent the acceptance of the input	Should examine whether the Resource has been already onboarded by any other Providers and escalate to the EPOT for resolution.
ERP.BAI.1	**Abbreviation**	B2DROP			
ERP.BAI.2	**Name**	PaaS Orchestrator	Should be descriptive from a customer point of view and should be quite simple, such that someone non-technical is able to understand what the Resource is about. In case there is no Full Name the abbreviation should be used.		In general it should be taken as-is because it is specific to the Resource and the Resource name selected by the Provider. Only ask for clarifications if the name does not correspond with the name of the Resource name provided on the Resource URL or in case of obvious typo's.

Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.BAI.3	**Resource Organisation**	OpenAIRE			
ERP.BAI.4	**Resource Providers**	GRNET			
ERP.BAI.5	**Webpage**	http://Resource-name.Provider.eu	Create a unique URL for each Resource and provide the shortest possible alias	Validate nominal URL, reject IP or other formats	Verify if the URL refers to the web page of the Resource, this is commonly the web page of the Resource in the Catalogue of the Provider. Verify if the name on the web page corresponds to the name provided as Resource Name.

Marketing Information

Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.MRI.1	**Description**	Connect spatial information communities and their data using a modern architecture, which is at the same time powerful and low cost, based on International and Open Standards for services and protocols (from ISO/TC211 and OGC).	Describe the Resource in a way that helps potential customers understand it and the benefit it brings. What is the main functionality of the service? The layout and content are up to the Provider. This field is used in the search function to prioritize results. 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). Description should be as quantified as possible. Please consider GDPR. Suggested length is 1000 characters		In general take as-is because it is specific to the Resource provided by the Provider. Review the text, not to qualify the quality, but more on readability and for obvious typo's, if necessary, ask for clarifications. Also point out if it does not appear to address the potential customers and explain the main functionality of the Resource. If description is excessively long suggest being more concise.

ERP.MRI.2	**Tagline**	The open repository for high performance computing code samples	Marketing specialists are encouraged to be engaged in order to come up with a catch phrase that can aid Resource dissemination and visibility. Suggested length is 100 characters		In general it should be taken as-is because it is specific to the Resource provided by the Provider. Only ask for clarifications if the tagline does not correspond to the provided Resource Description and in case of obvious typos.
ERP.MRI.3	**Logo**	https://Resource-name.Resource-Provider.eu/Symbol.jpg	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. Go to the Resource Provider's website --> Right Click on the Resource Provider's logo on the website --> Select "Copy Image Link" --> Paste it in the below field.	Validate nominal URL, reject IP or other formats. For the Resource located at the URL validate as follows: Formats: png, gif, jpg, jpeg, pjpeg, tiff, vnd.adobe, vnd.microsoft - Minimum dimensions 180x120px	Verify if the URL points to a logo picture or source including a logo that relate to the Resource in question. If needed, contact requester for clarification. Also verify it is functional, and visible to a white background
ERP.MRI.4	**Multimedia**	http://Resource-name.Resource-Provider.eu/Multimedia	Provide URL of the Resource, in the form of the shortest possible alias	Validate nominal URL, reject IP or other formats	Verify if the URL points to multimedia that relates to the Resource in question. If needed, contact requester for clarification.
ERP.MRI.5	**Multimedia Name**	Video of Resource interface	Suggested length is 100 characters		Verify the name is relevant to the multimedia content
ERP.MRI.6	**Use Cases**	https://zenodo.org/record/1490344#.XfR8p_yxWUk	Provide URL of the webpage describing a use case		Verify that the URL refers to the web page of the Resource and the screenshots and/or videos presented therein correspond to the Resource described.

Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.MRI.7	**Use Cases Name**	Kampal Artificial Intelligence for rare disease diagnosis	Suggested length is 100 characters		Verify the description is related to the Use Cases

Classification Information

Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.CLI.1	**Scientific Domain**	Natural Sciences	For suggestions in amending the "Scientific Domain" list, please select "Other", fill in your entry and press the "Submit" button		Verify that the provided value corresponds with names provided in the Resource's webpage.
ERP.CLI.2	**Scientific Subdomain**	Earth and related environmental sciences	For suggestions in amending the "Scientific Subdomain" list, please select "Other", fill in your entry and press the "Submit" button		Verify that the provided value corresponds with names provided in the Resource's webpage.
ERP.CLI.3	**Category**	Processing and analysis data management	For suggestions in amending the "Category" list, please select "Other", fill in your entry and press the "Submit" button		Verify that the category chosen is logical to Resource description.
ERP.CLI.4	**Subcategory**	Aggregators and integrators aggregators and integrators data	For suggestions in amending the "Subcategory" list, please select "Other", fill in your entry and press the "Submit" button		Verify that the subcategory chosen is logical to Resource description.
ERP.CLI.5	**Target Users**	Researchers, Research group, Research community, Research project	For suggestions in amending the "Target Users" list, please select "Other", fill in your entry and press the "Submit" button		
ERP.CLI.6	**Access Type**	Virtual	For suggestions in amending the "Access Type" list, please select "Other", fill in your entry and press the "Submit" button		
ERP.CLI.7	**Access Mode**	Excellence-based, Peer reviewed	For suggestions in amending the "Access Mode" list, please select "Other", fill in your entry and press the "Submit" button		

| ERP.CLI.8 | **Tags** | Open Science, data, dataset, data archive, library, repository | Add one Tag in each entry. For multi-word keywords, please use '-' to concatenate words. Suggested length is 50 characters | Validate keywords, by inserting '-' to concatenate words not separated by commas and identify as separate keywords words that are separated by commas | In general take as-is because it is specific to the Resource and selected by the Provider. Only ask for clarifications in case of unfamiliar words and/or obvious typo's. |

Geographical and Language Availability Information

Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.GLA.1	**Geographical Availability**	World	For suggestions in amending the "Geographical Availability" list, please select "Other", fill in your entry and press the "Submit" button	Validation using the ISO 3166-1 alpha-2 standard for the 2-letter codes for representing the languages.	
ERP.GLA.2	**Language Availability**	English	For suggestions in amending the "Language Availability" list, please select "Other", fill in your entry and press the "Submit" button	Validation using the ISO 3166-1 alpha-2 standard for the 2-letter codes for representing the languages.	Verify that English is selected among other languages

Resource Location Information

Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.RLI.01	**Resource Geographic Location**	Germany	Countries + additional regions	For suggestions in amending the "Geographic Location" list, please select "Other", fill in your entry and press the "Submit" button		

Contact Information

Main Contact/Resource Owner

Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.COI.1	**First Name**	John	Suggested length is 20 characters		Check for obvious typos in the name. Confirm with a google search of the name of the contact person
ERP.COI.2	**Last Name**	Smith	Suggested length is 20 characters		Check for obvious typos in the last name. Confirm with a google search of the last name of the contact person
ERP.COI.3	**Email**	john.smith@example.com		Validate e-mail address	Check for obvious typos in the email. Confirm with a google search of the email of the contact person
ERP.COI.4	**Phone**	3021077755500	Suggested length is 20 characters	Validate for number (use separate input field for country prefixes)	Check for obvious typos in the phone number and country code. Confirm with a google search of the phone of the contact person
ERP.COI.5	**Position**	Coordinator	Suggested length is 20 characters		Check for obvious typos in the position of the Provider contact person
ERP.COI.6	**Organisation**	Open Access Infrastructure for Research in Europe	Suggested length is 50 characters		Check for obvious typos in the affiliated Organisation
Public Contact					
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.COI.7	**First Name**	Jack	Suggested length is 20 characters		Check for obvious typos in the name. Confirm with a

Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
					google search of the name of the contact person
ERP.COI.8	**Last Name**	White	Suggested length is 20 characters		Check for obvious typos in the last name. Confirm with a google search of the last name of the contact person
ERP.COI.9	**Email**	jack.white@example.com		Validate e-mail address	Check for obvious typos in the email. Confirm with a google search of the email of the contact person
ERP.COI.10	**Phone**	3021077755501	Suggested length is 20 characters	Validate for number (use separate input field for country prefixes)	Check for obvious typos in the phone number and country code. Confirm with a google search of the phone of the contact person
ERP.COI.11	**Position**	Manager	Suggested length is 20 characters		Check for obvious typos in the position of the Provider contact person
ERP.COI.12	**Organisation**	Open Access Infrastructure for Research in Europe	Suggested length is 50 characters		Check for obvious typos in the affiliated Organisation
Other Contacts					
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.COI.13	**Helpdesk Email**	helpdesk@Provider.com	Email to contact your helpdesk, where users with incidents and requests will be directed.	Validate e-mail address	Verify the validity of the email address as a helpdesk email for the specific Resource (via internet search)

Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.COI.1 4	**Security Contact Email**	secutiry@Provider.com	Email contact of the person or group responsible for the security aspects of the Resource.	Validate e-mail address	Verify the validity of the email address as a security email for the specific Resource (via internet search)

Maturity Information

Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.MTI.1	**Technology Readiness Level**	TRL8	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/faq;keywords=/2890 for the definitions. Minimum accepted value is > =TRL-7 for the Resource to be publicly visible. For suggestions in amending the "Technology Readiness Level" list, please send an email to onboarding@eosc-portal.eu	A Resource needs to have TRL>=7 to be visible in the portal	Verify the provided TRL according to the Classification Appendix definitions
ERP.MTI.2	**Life Cycle Status**	Production	For suggestions in amending the "Life Cycle Status" list, please select "Other", fill in your entry and press the "Submit" button		
ERP.MTI.3	**Certifications**	Certificate of Excellence in Research Infrastructure Leadership	List of certifications obtained for the Resource (including the certification body and any certificate number if available). Suggested length is 100 characters		The certifications provided can be generic or community specific. We do not qualify the quality of a certification, the only qualification is that the certification is described on a public webpage. Verify via internet searches if the provided names give a valid result describing the certification. If not, request clarification and an URL reference describing the

					certification. Check whether the certification body is real and appears to offer certification.
ERP.MTI.4	**Standards**	ISO 15430, ISO 27000	List of formal and externally recognised standards that this Resource conforms to. Suggested length is 100 characters		The standards provided can be generic or community specific. We do not qualify a standard, the only qualification is that the standard is described on a public webpage. Verify via internet searches if the provided names give a valid result describing the standard. If not, request clarification and an URL reference describing the standard.
ERP.MTI.5	**Open Source Technologies**	Liferay	List any open source technologies incorporated into the Resource. Please note this is for specific technologies not broad ones like HTTP or a Linux distribution. Suggested length is 100 characters		Check that the technologies mentioned/projects exist
ERP.MTI.6	**Version**	3.1	Only stable releases should be referenced. Suggested length is 10 characters		
ERP.MTI.7	**Last Update**	2/28/2018	The date should refer to when the updated version became available to users, not when it was developed or released internally in the Provider.	Validate for date	
ERP.MTI.8	**Change Log**	Upgrade of user interface. Correction of minor bugs.	Clear, staccato sentences for each updated feature should be used. Suggested length is 1000 characters		

Dependencies Information

Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.DEI.1	**Required Resources**	List of Resource IDs	List any other EOSC Resources that your Resource requires in order to operate.		
ERP.DEI.2	**Related Resources**	List of Resource IDs	List any other EOSC Resources that you are aware of that your service can cooperate with.		
ERP.DEI.3	**Related Platforms**	DISVIS	Select from a List of Controlled Values the platform this Resource is part of, e.g. a thematic portal for a certain community. An additional value "Other" that will lead to opening a new text input to suggest a new value on the list. EPOT can periodically review all the records with "Other" Platform selected and depending on a case update the list of controlled values or assign the resource record to an existing one (in case provider missed the platform on the list when trying to find an appropriate one)		Verify via an internet search the name of the platform and its relevance with the Resource
ERP.DEI.4	**Catalogue**				Verify it is an existed Catalogue

Attribution Information

Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.ATI.1	**Funding Body**	European Commission	Publicity guidelines of each respective funding sources should be adhered to. For suggestions in amending the "Funding Body" list, please select "Other", fill in your entry and press the "Submit" button		

Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.ATI.2	**Funding Program**	Horizon 2020	For suggestions in amending the "Funding Program" list, please select "Other", fill in your entry and press the "Submit" button		
ERP.ATI.3	**Grant/Project Name**	OpenAIRE2020 (643410)	Suggested length is 100 characters		

Management Information

Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.MGI.1	**Helpdesk Page**	http://Resource-name.Resource-Provider.eu/Helpdesk	Link to the helpdesk where users with incidents and requests will be directed. It should allow private communication with providers (not a public forum). Create a dedicated URL for your Resources and provide the shortest possible alias.	Validate nominal URL, reject IP or other formats	For this field it should be a URL to a helpdesk portal, verify the URL by accessing the URL via a web browser.
ERP.MGI.2	**User Manual**	http://Resource-name.provid-er.eu/UserManual	Link to the user manual or other basic user instructional information about the Resource. Create a dedicated URL for your Resources and provide the shortest possible alias.	Validate nominal URL, reject IP or other formats	Verify if the URL refers to the web page, document or other information describing the Resource. If not ask clarification from the Provider. The quality of the content does not have to be verified, but the information provided must have a look and feel of a user manual.
ERP.MGI.3	**Terms Of Use**	http://Resource-name.provid-er.eu/TermsOfUse	Link describing the rules, resource conditions and usage policy which one must agree to abide by in order to use the Resource. Create a dedicated URL for your Resources and provide the shortest possible alias.	Validate nominal URL, reject IP or other formats	Verify that the URL refers to the web page, document or other information providing the terms of use for the Resource. If not ask clarification from the Provider. The quality of the content does not to have be

					verified. The content has to be publicly accessible before the user logs in. If there is no Terms of Use / Acceptable Use Policy or the existing one appears of low quality, suggest the WISE Baseline AUP, see https://aarc-project.eu/wp-content/uploads/2019/03/AARC-I044-Implementers-Guide-to-the-WISE-Baseline-AUP.pdf
ERP.MGI.4	**Privacy Policy**	http://Resource-name.provid-er.eu/PrivacyPolicy	Link to the privacy policy applicable to the Resource. Privacy policies are required for all Resources, since they will likely fall under the GDPR limitations. Create a dedicated URL for your Resources and provide the shortest possible alias.	Validate nominal URL, reject IP or other formats	Verify that the URL refers to the web page, document or other information describing the Resource privacy policy. If not ask clarification from the Provider. The quality of the content does not have to be verified.
ERP.MGI.5	**Access Policy**	PRACE provides HPC Resources to researchers and scientists from academia and industry through Preparatory Access (code scaling and optimization) and/or through Project Access (large-scale, computationally intensive projects) http://www.prace-ri.eu/hpc-access	Create a dedicated URL for your Resources and provide the shortest possible alias.		Check that the answer can be generally understood by users, and seems to relate to the service as shown on its website.

ERP.MGI.6	**Resource Level**	http://Resource-name.Provider.eu/SLA	Link to a Service Level Agreement (SLA) or Service Level Specification (SLS) applicable to the Resource. Support is available in forming an SLA or SLS is available at https://wiki.eosc-hub.eu/display/EOSC/Service+Provider+Documentation.	Validate nominal URL, reject IP or other formats	Verify that the provided link points to a Service Level Agreement (SLA) or Service Level Specification (SLS) applicable to the Resource.
ERP.MGI.7	**Training Information**	http://Resource-name.Provider.eu/Training	Link to page with training information on the Resource. Create a dedicated URL for your Resources and provide the shortest possible alias.	Validate nominal URL, reject IP or other formats	Verify that the URL refers to the web page, document or other information related to training for the Resource. If not ask clarification from the Provider. The quality of the content does not have to be verified, but the information provided must have a look and feel and to be useful as training material.
ERP.MGI.8	**Status Monitoring**	http://Resource-name.Provider.eu/Monitoring	Web Page with monitoring information about this Resource.	Validate nominal URL, reject IP or other formats	Verify that the URL points to a webpage that provides monitoring information about the Resource. If not ask clarification from the Provider. We do not assess the quality and/or usefulness of the monitoring page.
ERP.MGI.9	**Maintenance**	http://Resource-name.Provider.eu/Maintenance	Web Page with information about planned maintenance windows for this Resource.	Validate nominal URL, reject IP or other formats	Verify that the URL points to a webpage that provides information on scheduled downtimes of the Resource. If not ask clarification from the Provider.

Access and Order Information

Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.AOI.1	**Order Type**	Free	.Information on the order type (requires an ordering procedure, or no ordering and if fully open or requires authentication) For suggestions in amending the "Order Type" list, please select "Other", fill in your entry and press the "Submit" button		
ERP.AOI.2	**Order**	https://gts.geant.net/login		Validate nominal URL, reject IP or other formats	Verify that the URL provided indeed provides information on the order of the Resource. If not, request clarifications from the Provider

Financial Information

Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.FNI.1	**Payment Model**	http://Resource-name.Provider.eu/PaymentModel		Validate nominal URL, reject IP or other formats	Verify that the URL provided indeed provides information on the payment model of the Resource. If not, request clarifications from the Provider
ERP.FNI.2	**Pricing**	http://Resource-name.Provider.eu/Price	Look at https://cloud.telekom.de/en/infrastructure/open-telekom-cloud/pricing as an example	Validate nominal URL, reject IP or other formats	Verify that the URL provided indeed provides information on the pricing of the Resource. If not, request clarifications from the Provider

Transition Guide

Basic Information

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
ERP.BAI.0	**ID**	No Change	*Copy*	
ERP.BAI.1	**Abbreviation**	**New Attribute**	Default value empty(null)	01/01/2022
ERP.BAI.2	**Name**	No Change	*Copy*	
ERP.BAI.3	**Resource Organisation**	No Change	*Copy*	
ERP.BAI.4	**Resource Providers**	No Change	*Copy*	
ERP.BAI.5	**Webpage**	No Change	*Copy*	

Marketing Information

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
ERP.MRI.1	**Description**	No Change	*Copy*	
ERP.MRI.2	**Tagline**	No Change	*Copy*	
ERP.MRI.3	**Logo**	No Change	*Copy*	
ERP.MRI.4	**Multimedia**	No Change	*Copy*	
ERP.MRI.5	**Multimedia Name**	**New Attribute**	Default value empty(null)	01/01/2022
ERP.MRI.6	**Use Cases**	No Change	*Copy*	
ERP.MRI.7	**Use Cases Name**	**New Attribute**	Default value empty(null)	01/01/2022

Classification Information

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation

ERP.CLI.1	**Scientific Domain**	No Change	*Copy*	
ERP.CLI.2	**Scientific Subdomain**	No Change	*Copy*	
ERP.CLI.3	**Category**	No Change	*Copy*	
ERP.CLI.4	**Subcategory**	No Change	*Copy*	
ERP.CLI.5	**Target Users**	No Change	*Copy*	
ERP.CLI.6	**Access Type**	No Change	*Copy*	
ERP.CLI.7	**Access Mode**	No Change	*Copy*	
ERP.CLI.8	**Tags**	No Change	*Copy*	

Geographical and Language Availability Information

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
ERP.GLA.1	**Geographical Availability**	No Change	*Copy*	
ERP.GLA.2	**Language Availability**	No Change	*Copy*	

Resource Location Information

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
ERP.RLI.01	**Resource Geographic Location**	No Change	*Copy*	

Contact Information

Main Contact/Resource Owner

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
ERP.COI.1	**First Name**	No Change	*Copy*	
ERP.COI.2	**Last Name**	No Change	*Copy*	

ERP.COI.3	**Email**	No Change	*Copy*	
ERP.COI.4	**Phone**	No Change	*Copy*	
ERP.COI.5	**Position**	No Change	*Copy*	
ERP.COI.6	**Organisation**	No Change	*Copy*	

Public Contact

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
ERP.COI.7	**First Name**	No Change	*Copy*	
ERP.COI.8	**Last Name**	No Change	*Copy*	
ERP.COI.9	**Email**	No Change	*Copy*	
ERP.COI.10	**Phone**	No Change	*Copy*	
ERP.COI.11	**Position**	No Change	*Copy*	
ERP.COI.12	**Organisation**	No Change	*Copy*	

Other Contacts

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
ERP.COI.13	**Helpdesk Email**	No Change	*Copy*	
ERP.COI.14	**Security Contact Email**	No Change	*Copy*	

Maturity Information

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
ERP.MTI.1	**Technology Readiness Level**	No Change	*Copy*	
ERP.MTI.2	**Life Cycle Status**	No Change	*Copy*	
ERP.MTI.3	**Certifications**	No Change	*Copy*	

ERP.MTI.4	Standards	No Change	*Copy*	
ERP.MTI.5	Open Source Technologies	No Change	*Copy*	
ERP.MTI.6	Version	No Change	*Copy*	
ERP.MTI.7	Last Update	No Change	*Copy*	
ERP.MTI.8	Change Log	No Change	*Copy*	

Dependencies Information

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
ERP.DEI.1	Required Resources	No Change	*Copy*	
ERP.DEI.2	Related Resources	No Change	*Copy*	
ERP.DEI.3	Related Platforms	No Change	*Copy*	
ERP.DEI.4	Catalogue	No Change	*Copy*	

Attribution Information

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
ERP.ATI.1	Funding Body	No Change	*Copy*	
ERP.ATI.2	Funding Program	No Change	*Copy*	
ERP.ATI.3	Grant/Project Name	No Change	*Copy*	

Management Information

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v3.10	Date of full implementation
ERP.MGI.1	Helpdesk Page	No Change	*Copy*	
ERP.MGI.2	User Manual	No Change	*Copy*	

ERP.MGI.3	**Terms Of Use**	Change of Requirement from Optional to Mandatory	*Copy or "-" if empty*	01/07/2022
ERP.MGI.4	**Privacy Policy**	Change of Requirement from Optional to Mandatory	*Copy or "-" if empty*	01/07/2022
ERP.MGI.5	**Access Policy**	No Change	*Copy*	
ERP.MGI.6	**Resource Level**	No Change	*Copy*	
ERP.MGI.7	**Training Information**	No Change	*Copy*	
ERP.MGI.8	**Status Monitoring**	No Change	*Copy*	
ERP.MGI.9	**Maintenance**	No Change	*Copy*	

Access and Order Information

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
ERP.AOI.1	**Order Type**	No Change	*Copy*	
ERP.AOI.2	**Order**	No Change	*Copy*	

Financial Information

Code	Attribute Name	Changes v3.00 to v4.00	Registry Transition v3.00 to v4.00	Date of full implementation
ERP.FNI.1	**Payment Model**	No Change	*Copy*	
ERP.FNI.2	**Pricing**	No Change	*Copy*	

v4.00 EOSC Multi-Provider Catalogue Profile Specification

Data Model

Basic Information						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
ECP.BAI.0	**ID**	A persistent identifier, a unique reference to the (Multi-Provider Regional or Thematic) Catalogue in the context of the EOSC Portal.	String (max 30)	1	Mandatory	Yes
ECP.BAI.1	**Abbreviation**	An abbreviation of the (Multi-Provider Regional or Thematic) Catalogue Name.	String (max 30)	1	Mandatory	Yes
ECP.BAI.2	**Name**	Full Name of the (Multi-Provider Regional or Thematic) Catalogue.	String (max 100)	1	Mandatory	Yes
ECP.BAI.3	**Website**	Website with information about the (Multi-Provider Regional or Thematic) Catalogue.	URL	1	Mandatory	Yes
ECP.BAI.4	**Legal Entity**	A Y/N question to define whether the (Multi-Provider Regional or Thematic) Catalogue is owned by a Legal Entity or not.	Boolean	1	Mandatory	Yes
ECP.BAI.5	**Legal Status**	Legal status of the (Multi-Provider Regional or Thematic) Catalogue Owner. The legal status is usually noted in the registration act/statutes. For independent legal entities (1) - legal status of the Catalogue. For embedded Catalogues (2) - legal status of the hosting legal entity. It is also possible to select Not a legal entity.	List of controlled values <u>EOSC Multi-Provider Catalogue Profile #Multi-Provider Legal Status</u>	1	Optional	Yes
ECP.BAI.6	**Hosting Legal Entity**	Name of the organisation legally hosting (housing) the Catalogue or its coordinating centre.	List of controlled values <u>EOSC Multi-Provider Catalogue Profile #Multi-Provider Hosting Legal Entity</u>	1	Optional	Yes

Marketing Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
ECP.MRI.1	**Description**	A high-level description of the Catalogue in fairly non-technical terms, with the vision, mission, objectives, background, experience.	String (max 1000)	1	Mandatory	Yes
ECP.MRI.2	**Logo**	Link to the logo/visual identity of the Catalogue.	URL	1	Mandatory	Yes
ECP.MRI.3	**Multimedia**	Link to video, slideshow, photos, screenshots with details of the Catalogue.	URL	Multiple	Optional	Yes
ECP.MRI.4	**Multimedia Name**	Short description of the Multimedia content	String (Max 100)	Multiple	Optional	Yes

Classification Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
ECP.CLI.1	**Scientific Domain**	A named group of Catalogues that offer access to the same type of resources or capabilities.	List of controlled values <u>EOSC Multi-Provider Catalogue Profile #Multi-Provider Scientific Domain</u>	Multiple	Optional	Yes
ECP.CLI.2	**Scientific Subdomain**	A named group of Catalogues that offer access to the same type of resources or capabilities, within the defined domain.	List of controlled values <u>EOSC Multi-Provider Catalogue Profile #Multi-Provider Scientific Domain</u>	Multiple	Optional	Yes
ECP.CLI.3	**Tags**	Keywords associated to the Catalogue to simplify search by relevant keywords.	String (max 20)	Multiple	Optional	Yes

Location Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public

ECP.L0I.1	**Street Name and Number**	Street and Number of incorporation or Physical location of the Catalogue Coordinating Entity.	String (max 50)	1	Mandatory	Yes
ECP.L0I.2	**Postal Code**	Postal code of incorporation or Physical location of the Catalogue Coordinating Entity.	String (max 20)	1	Mandatory	Yes
ECP.L0I.3	**City**	City of incorporation or Physical location of the Catalogue Coordinating Entity.	String (max 20)	1	Mandatory	Yes
ECP.L0I.4	**Region**	Region of incorporation or Physical location of the Catalogue Coordinating Entity.	String (max 50)	1	Optional	Yes
ECP.L0I.5	**Country**	Country of incorporation or Physical location of the Catalogue Coordinating Entity.	List of controlled values EOSC Multi-Provider Catalogue Profile #Multi-Provider Country	1	Mandatory	Yes

Contact Information

Main Contact/Provider Manager

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
ECP.COI.1	**First Name**	First Name of the Catalogue's main contact person/Provider Manager.	String (max 20)	1	Mandatory	No
ECP.COI.2	**Last Name**	Last Name of the Catalogue's main contact person/Provider Manager.	String (max 20)	1	Optional	Yes
ECP.COI.3	**Email**	Email of the Catalogue's main contact person/Provider manager.	Email	1	Mandatory	No
ECP.COI.4	**Phone**	Phone of the Catalogue's main contact person/Provider manager.	String (max 20)	1	Optional	No
ECP.COI.5	**Position**	Position of the Catalogue's main contact person/Provider manager.	String (max 50)	1	Optional	No

Public Contact

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
ECP.COI.6	**First Name**	First Name of the Catalogue's contact person to be displayed at the portal.	String (max 20)	1	Optional	Yes
ECP.COI.7	**Last Name**	Last Name of the Catalogue's contact person to be displayed at the portal.	String (max 20)	1	Optional	Yes
ECP.COI.8	**Email**	Email of the Catalogue's contact person to be displayed at the portal or general email to contact Catalogue.	Email	1	Mandatory	Yes
ECP.COI.9	**Phone**	Phone of the Catalogue's contact person to be displayed at the portal or general phone to contact Catalogue.	String (max 20)	1	Optional	Yes
ECP.COI.10	**Position**	Position of the Catalogue's contact person to be displayed at the portal.	String (max 50)	1	Optional	Yes

Dependencies Information

Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
ECP.DEI.1	**Participating Countries**	Catalogues that are funded/supported by several countries should list here all supporting countries (including the Coordinating country).	List of controlled values <u>EOSC Multi-Provider Catalogue Profile #Multi-Provider Country</u>	Multiple	Optional	Yes
ECP.DEI.2	**Affiliations**	Catalogues that are members or affiliated or associated with other organisations should list those organisations here	String (max 30)	Multiple	Optional	Yes
ECP.DEI.3	**Networks**	Catalogues that are members of networks should list those networks here.	List of controlled values <u>EOSC Multi-Provider Catalogue Profile #Multi-Provider Networks</u>	Multiple	Optional	Yes

Onboarding Guides

Basic Information

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
ECP.BAI.0	**ID**	NI4OS	The Multi-Provider Regional or Thematic Catalogue ID is currently maintained by the EOSC Portal. It is assigned during onboarding of the Provider. It is suggested to use the Multi-Provider's abbreviation. Two multi- providers cannot have the same id; therefore the EOSC Portal will resolve this when it happens during the registration of a multi-provider. In next releases of the model, the id will correspond to a PID issued and resolved by PID multi-providers		
ECP.BAI.1	**Abbreviation**	National Initiatives for Open Science in Europe	The abbreviation of the (Multi-Provider Regional or Thematic) Catalogue will be used in most cases, and will be what is displayed as the main name.		Verify via internet search that this is the relevant abbreviation (no typos or misspellings)
ECP.BAI.2	**Name**	Carl Zeiss	Suggested length is up to 100 characters		Verify via internet search if the (Multi-Provider Regional or Thematic) Catalogue name is a valid organisation name and has a Website with the same FQDN.
ECP.BAI.3	**Website**	https://ni4os.eu/	Provide the landing page (i.e. domain name or FQDN) of the (Multi-Provider Regional or Thematic) Catalogue	Validate nominal FQDN, reject IP or other formats	Verify via website link, that is functional, in English and directs to the landing page of the (Multi-Provider

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
					Regional or Thematic) Catalogue
ECP.BAI.4	**Legal Entity**	Y			
ECP.BAI.5	**Legal Status**	Non-Profit Partnership (NPP)	For suggestions in amending the "Legal Status" list, please select "Other", fill in your entry and press the "Submit" button		
ECP.BAI.6	**Hosting Legal Entity**	EOSC	if Legal Entity is not Check then Hosting Legal Entity is Mandatory to be filled in. Also the Hosting Legal Entity must be selected from the list of(Multi-Provider Regional or Thematic) Catalogues already registered in the EOSC Portal.		Verify the existence, name of the provided entity via an internet search

Marketing Information

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
ECP.MRI.1	**Description**	National Initiatives for Open Science in Europe – NI4OS Europe, aims to be a core contributor to the European Open Science Cloud (EOSC) service portfolio, commit to EOSC governance and ensure inclusiveness on the European level for enabling global Open Science.	Describe shortly the objective and background of your (Multi-Provider Regional or Thematic) Catalogue.		Compare briefly to (Multi-Provider Regional or Thematic) Catalogue website to ensure content consistency, but generally take as is.
ECP.MRI.2	**Logo**	https://ni4os.eu/wp-content/uploads/2019/10/NI4OS_logo_title-e1570180082953.jpg	Provide a URL pointing to the (Multi-Provider Regional or Thematic) Catalogue's logo at high quality, in the form of the shortest possible alias. Link to the logo/visual identity of the	Validate nominal URL, reject IP or other formats For the resource located at the URL validate as follows:-Formats: png, gif,	Verify it is a functional logo, pictures the logo of the (Multi-Provider Regional or Thematic)

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
		(Multi-Provider Regional or Thematic) Catalogue. Go to the (Multi-Provider Regional or Thematic) Catalogue's website --> Right Click on the (Multi-Provider Regional or Thematic) Catalogue's logo on the website --> Select "Copy Image Link" --> Paste it in the field.	jpg, jpeg, pjpeg, tiff, vnd.adobe, vnd.microsof - Minimum dimensions 180x120px	Catalogue, it is visible in a white background
ECP.MRI.3	**Multimedia**	https://youtu.be/M8LnlP3INbo	Provide a URL pointing at a high quality video or slideshow, in the form of the shortest possible alias	Validate nominal URL, reject IP or other formats	Verify the URL is functional and points to a multimedia relevant to (Multi-Provider Regional or Thematic) Catalogue info
ECP.MRI.4	**Multimedia Name**	Video of Resource interface	Suggested length is 100 characters		Verify the name is relevant to the multimedia content

Classification Information

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
ECP.CLI.1	**Scientific Domain**	Information Science and Technology	For suggestions in amending the "Scientific Domain" list, please select "Other", fill in your entry and press the "Submit" button		
ECP.CLI.2	**Scientific Subdomain**	Complex Data Facilities	For suggestions in amending the "Scientific Subdomain" list, please select "Other", fill in your entry and press the "Submit" button		
ECP.CLI.3	**Tags**	Open data, open science, publications, research papers	Add one Tag in each entry. For multi-word keywords, please use '-' to concatenate words. Suggested length is up to 20 characters	Validate keywords, by inserting '-' to concatenate words not separated by commas and identify as	Validate tags are relevant and associated to the Provider

			separate keywords words that are separated by commas	

Location Information

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
ECP.L0I.1	**Street Name and Number**	Street 10	Suggested length is up to 50 characters		Verify the name and the number is associated to (Multi-Provider Regional or Thematic) Catalogue's address
ECP.L0I.2	**Postal Code**	GR-12345	Suggested length is up to 20 characters		Verify the postal code is associated to (Multi-Provider Regional or Thematic) Catalogue's address
ECP.L0I.3	**City**	Athens	Suggested length is up to 20 characters		Verify the City is associated to (Multi-Provider Regional or Thematic) Catalogue's address
ECP.L0I.4	**Region**	Attica	Suggested length is up to 50 characters		Verify the region is associated to (Multi-Provider Regional or Thematic) Catalogue's address
ECP.L0I.5	**Country**	Greece	For suggestions in amending the "Country" list, please select "Other", fill in your entry and press the "Submit" button		Verify the country is associated to (Multi-Provider Regional or Thematic) Catalogue's address and investigate

					further when "other" is selected

Contact Information

Main Contact/Provider Manager

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
ECP.COI.1	**First Name**	John	Suggested length is up to 50 characters		Check for obvious typos in the name. Confirm with a google search of the name of the contact person
ECP.COI.2	**Last Name**	Smith	Suggested length is up to 50 characters		Check for obvious typos in the last name. Confirm with a google search of the last name of the contact person
ECP.COI.3	**Email**	john.smith@example.com		Validate e-mail address	Check for obvious typos in the email. Confirm with a google search of the email of the contact person
ECP.COI.4	**Phone**	(+30210) 1234567	Suggested length is up to 20 characters	Validate for number (use separate input field for country prefixes)	Check for obvious typos in the phone number and country code. Confirm with a google search of the phone of the contact person
ECP.COI.5	**Position**	Coordinator	Suggested length is up to 50 characters		Check for obvious typos in the position of the (Multi-Provider Regional or Thematic)

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
					Catalogue contact person
Public Contact					
Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
ECP.COI.6	**First Name**	Jack	Suggested length is up to 20 characters		Check for obvious typos in the name. Confirm with a google search of the name of the contact person
ECP.COI.7	**Last Name**	White	Suggested length is up to 20 characters		Check for obvious typos in the last name. Confirm with a google search of the last name of the contact person
ECP.COI.8	**Email**	jack.white@example.com		Validate e-mail address	Check for obvious typos in the email. Confirm with a google search of the email of the contact person
ECP.COI.9	**Phone**	(+30210) 7890123	Suggested length is up to 20 characters	Validate for number (use separate input field for country prefixes)	Check for obvious typos in the phone number and country code. Confirm with a google search of the phone of the contact person
ECP.COI.10	**Position**	Manager	Suggested length is up to 50 characters		Check for obvious typos in the position of the (Multi-Provider Regional or Thematic) Catalogue's contact person

Dependencies Information

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
ECP.DEI.1	**Participating Countries**	Germany, Italy, Poland, Switzerland, Portugal, Netherlands, Belgium, Norway, Uruguay	For suggestions in amending the "Participating Countries" list, please select "Other", fill in your entry and press the "Submit" button		Further investigate when "other" is selected
ECP.DEI.2	**Affiliations**	EOSC, CatRIS	Suggested length is up to 30 characters		
ECP.DEI.3	**Networks**	European Open Science Cloud (EOSC)	For suggestions in amending the "Networks" list, please select "Other", fill in your entry and press the "Submit" button		

Transition Guides

Basic Information

Code	Attribute Name	Changes	Date of full implementation
ECP.BAI.0	**ID**	**New Attribute**	1/1/2022
ECP.BAI.1	**Abbreviation**	**New Attribute**	1/1/2022
ECP.BAI.2	**Name**	**New Attribute**	1/1/2022
ECP.BAI.3	**Website**	**New Attribute**	1/1/2022
ECP.BAI.4	**Legal Entity**	**New Attribute**	1/1/2022
ECP.BAI.5	**Legal Status**	**New Attribute**	1/1/2022
ECP.BAI.6	**Hosting Legal Entity**	**New Attribute**	1/1/2022

Marketing Information

Code	Attribute Name	Changes v3.00 to v3.10	Date of full implementation
ECP.MRI.1	Description	New Attribute	1/1/2022
ECP.MRI.2	Logo	New Attribute	1/1/2022
ECP.MRI.3	Multimedia	New Attribute	1/1/2022
ECP.MRI.4	Multimedia Name	New Attribute	1/1/2022

Classification Information

Code	Attribute Name	Changes v3.00 to v3.10	Date of full implementation
ECP.CLI.1	Scientific Domain	New Attribute	1/1/2022
ECP.CLI.2	Scientific Subdomain	New Attribute	1/1/2022
ECP.CLI.3	Tags	New Attribute	1/1/2022

Location Information

Code	Attribute Name	Changes v3.00 to v3.10	Date of full implementation
ECP.L0I.1	Street Name and Number	New Attribute	1/1/2022
ECP.L0I.2	Postal Code	New Attribute	1/1/2022
ECP.L0I.3	City	New Attribute	1/1/2022
ECP.L0I.4	Region	New Attribute	1/1/2022
ECP.L0I.5	Country	New Attribute	1/1/2022

Contact Information

Main Contact/Provider Manager

Code	Attribute Name	Changes v3.00 to v3.10	Date of full implementation
ECP.COI.1	First Name	New Attribute	1/1/2022
ECP.COI.2	Last Name	New Attribute	1/1/2022

ECP.COI.3	**Email**	**New Attribute**	1/1/2022
ECP.COI.4	**Phone**	**New Attribute**	1/1/2022
ECP.COI.5	**Position**	**New Attribute**	1/1/2022
Public Contact			
Code	Attribute Name	Changes v3.00 to v3.10	Date of full implementation
ECP.COI.6	**First Name**	**New Attribute**	1/1/2022
ECP.COI.7	**Last Name**	**New Attribute**	1/1/2022
ECP.COI.8	**Email**	**New Attribute**	1/1/2022
ECP.COI.9	**Phone**	**New Attribute**	1/1/2022
ECP.COI.10	**Position**	**New Attribute**	1/1/2022

Dependencies Information

Code	Attribute Name	Changes v3.00 to v3.10	Date of full implementation
ECP.DEI.1	**Participating Countries**	**New Attribute**	1/1/2022
ECP.DEI.2	**Affiliations**	**New Attribute**	1/1/2022
ECP.DEI.3	**Networks**	**New Attribute**	1/1/2022

Provider Profile Code Lists, Taxonomies, Classifications

Provider Legal Status

No.	Provider Legal Status	Changes v3.00 to v4.00
1	Association	
2	Consortium	
3	Corporation	
4	European Research Infrastructure Consortium (ERIC)	
5	European Economic Interest Grouping	
6	Foundation	
7	Grouping	
8	International or Intergovernmental Organisation or Framework	
9	Non-Governmental Organisation	
10	Non For Profit Company	
11	Partnership	
12	Private Company	
13	Public Company	
14	Public Legal Entity	
15	Public Legal Entity under Private Law	
16	Self Employed	
17	Society	
18	Trust	
19	Union	
20	Other	

Hosting Legal Entity

No.	Name of the Organisation / Institution	Changes v3.00 to v4.00
1	Carl Zeiss Microscopy	Addition
2	Consorzio per il Sistema Informativo	Addition
3	Institute for Information Science and Technologies "Alessandro Faedo" - ISTI	Addition
4	National Distributed Computing Infrastructure	Addition
5	UK Research and Innovation - Science and Technology Facilities Council	Addition

6	MyScienceWork	Addition
7	Centre de Recherche en Acquisition et Traitement de l'Image pour la Santé	Addition
8	Europeana Foundation	Addition
9	CY-Biobank Center of Excellence in Biobanking and Biomedical Research - University of Cyprus	Addition
10	Istituto Nazionale di Astrofisica	Addition
11	Earth Observation Data Centre for Water Resources Monitoring	Addition
12	Figshare	Addition
13	Phenomenal	Addition
14	100 Percent IT	Addition
15	Photon and Neutron Open Science Cloud	Addition
16	GESIS Leibniz Institute for the Social Sciences	Addition
17	Global Biodiversity Information Facility Portugal: Regions module	Addition
18	IDEAconsult	Addition
19	European Infrastructure for Plant Phenotyping	Addition
20	Institute of Informatics - Slovak Academy of Sciences	Addition
21	re3data - Registry of Research Data Repositories	Addition
22	Miguel Nogueira	Addition
23	Institute of Instrumentation for Molecular Imaging - Grid and High Performance Computing - Universitat Politècnica de València	Addition
24	Swedish Infrastructure for Ecosystem Science	Addition
25	CloudFerro	Addition
26	READ-COOP	Addition
27	Institute of Physics of Cantabria (IFCA)	Addition
28	LINDAT/CLARIAH-CZ Research Infrastructure for Language Resources and Digital Arts and Humanities in the Czech Republic	Addition
29	European Research Infrastructure for Language Resources and Technology	Addition
30	West-Life	Addition
31	COLLABWITH	Addition
32	Partnership For Advanced Computing in Europe	Addition
33	Committee for the Accessibility of Publications in Sciences and Humanities	Addition
34	Demonstration Reasoning - Test	Addition
35	GSI Helmholtzzentrum für Schwerionenforschung GmbH	Addition

36	Consortium of European Social Science Data Archives ERIC	Addition
37	Ifremer, the French Marine Science Research Institute	Addition
38	Cineca Consorzio Interuniversitario	Addition
39	UK Atomic Energy Authority	Addition
40	European Space Agency	Addition
41	Karlsruhe Institute of Technology	Addition
42	EnhanceR	Addition
43	EUDAT	Addition
44	EISCAT Scientific Association	Addition
45	European Molecular Biology Laboratory - European Bioinformatics Institute	Addition
46	Finnish Social Science Data Archive	Addition
47	Center for Research in Ecology and Forestry Applications	Addition
48	Global Biodiversity Information Facility Portugal: Spatial Portal	Addition
49	Jelastic	Addition
50	Mandat International	Addition
51	Forschungsdaten.info	Addition
52	LifeWatch ERIC	Addition
53	Digital Repository of Ireland	Addition
54	Eurac Research	Addition
55	Materials Cloud	Addition
56	Open Knowledge Maps	Addition
57	SixSq	Addition
58	NuoroForestrySchool-DipAGR-UniSS.it	Addition
59	OpenAIRE	Addition
60	Global Biodiversity Information Facility Portugal: Species Portal	Addition
61	F6S Network	Addition
62	University of Granada – UGR	Addition
63	Suite5 Data Intelligence Solutions	Addition
64	Institut Laue Langevin	Addition
65	European Spallation Source ERIC	Addition
66	Fundacion Centro Tecnologico de Supercomputacion de Galicia	Addition

67	Genomics Coordination Center, University Medical Center Groningen	Addition
68	Athena Research and Innovation Center in Information and Communication Technologies	Addition
69	National Infrastructures for Research and Technology	Addition
70	D4Science Infrastructure	Addition
71	SoBigData	Addition
72	Open Biomedical Engineering e-platform for Innovation through Education	Addition
73	Global Biodiversity Information Facility Portugal: Collections Registry	Addition
74	University of Florence	Addition
75	Edelweiss Connect GmbH	Addition
76	GÉANT Association	Addition
77	ACC Cyfronet AGH-UST	Addition
78	Deutsches Klimarechenzentrum	Addition
79	Digital Curation Centre	Addition
80	Portuguese National Civil Engineering Laboratory	Addition
81	ELIXIR Belgium	Addition
82	RASDAMAN	Addition
83	OpenMinTeD	Addition
84	AUTHENIX	Addition
85	Institut national de recherche en informatique et en automatique	Addition
86	Integrated Carbon Observation System European Research Infrastructure Consortium	Addition
87	Huma-Num	Addition
88	Scientific Knowledge Services	Addition
89	Fraunhofer SCAI	Addition
90	Koma Nord	Addition
91	DataCite	Addition
92	Data Revenue	Addition
93	University of Minas Gerais	Addition
94	Global Biodiversity Information Facility Portugal: Species Lists	Addition
95	CompBioMed	Addition
96	Cyberbotics	Addition
97	Institut Pierre-Simon Laplace	Addition

98	Jülich Supercomputing Centre	Addition
99	Communication & Information Technologies Experts SA Consulting and Development Services	Addition
100	Erasmus Medical Center	Addition
101	SURF	Addition
102	Computing Centre of the National Institute of Nuclear Physics and Particle Physics, CNRS	Addition
103	Strasbourg astronomical Data Centre	Addition
104	Deutsches Elektronen-Synchrotron	Addition
105	Vilnius University	Addition
106	Data Stewardship Wizard	Addition
107	Turkish Academic Network and Information Center	Addition
108	The SCIGNE Platform	Addition
109	ELIXIR United Kingdom	Addition
110	Estonian Scientific Computing Infrastructure	Addition
111	DOAB Foundation	Addition
112	INFRAFRONTIER	Addition
113	University of Tartu	Addition
114	DigitalGlobe	Addition
115	Global Biodiversity Information Facility Portugal: Images Portal	Addition
116	European Multidisciplinary Seafloor and water column Observatory	Addition
117	Millenia Life	Addition
118	High Integration of Research Monographs in the European Open Science infratructure	Addition
119	Open Science MOOC	Addition
120	Elixir	Addition
121	University of Geneva	Addition
122	Mundi Web Services	Addition
123	Institute of Information and Communication Technologies	Addition
124	Serveo	Addition
125	Institute of Accelerating Systems and Applications	Addition
126	Verified Exascale Computing for Multiscale Applications	Addition
127	Universitat Politècnica de València	Addition

128	OpenEdition	Addition
129	testOnboarding	Addition
130	The Cyprus Institute	Addition
131	SWITCH	Addition
132	EXOSCALE	Addition
133	Centro Nacional de Biotecnologia (CSIC)	Addition
134	Centre National de la Recherche Scientifique	Addition
135	Oxford e-Research Centre, University of Oxford, UK	Addition
136	Mundi Web Services	Addition
137	Central European Research Infrastructure Consortium	Addition
138	Research Organization Registry	Addition
139	VI-SEEM	Addition
140	T-Systems International	Addition
141	Common Workflow Language community	Addition
142	Smart-SMEAR	Addition
143	UiT The Arctic University of Norway	Addition
144	FAIR Data Infrastructure for Physics, Chemistry, Materials Science, and Astronomy	Addition
145	Institute of Atmospheric Pollution Research - National Research Council of Italy	Addition
146	Genias Benelux	Addition
147	NORCE Norwegian Research Centre	Addition
148	Posts and Telecommunications Institute of Technology	Addition
149	Gesellschaft für wissenschaftliche Datenverarbeitung mbH Göttingen	Addition
150	Thoth: Open Book Metadata Dissemination System	Addition
151	Leibniz Information Centre for Science and Technology	Addition
152	hostkey	Addition
153	ELIXIR Italy	Addition
154	Institute of Biomembranes, Bioenergetics and Molecular Biotechnologies, National Research Council	Addition
155	Shanghai Science and Technology Innovation Resources Center	Addition
156	Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering	Addition
157	Open Book Publishers	Addition

158	Italian National Institute of Nuclear Physics	Addition
159	OPERAS AISBL	Addition
160	Tree of Science	Addition
161	Global Biodiversity Information Facility (GBIF)	Addition
162	Terradue	Addition
163	Riga Stradins University	Addition
164	testStates8	Addition
165	Bijvoet Centre - Utrecht University	Addition
166	Magnetic Resonance Center of the University of Florence - CERM, Interuniversity consortium CIRMMP	Addition
167	A Worldwide e-Infrastructure for Structural Biology	Addition
168	E-CAM Centre of Excellence	Addition
169	AGINFRA+	Addition
170	BioExcel Centre of Excellence	Addition
171	EOSC DIH - Digital Innovation Hub	Addition
172	National Computing Center for Higher Education	Addition
173	University of Freiburg	Addition
174	Sinergise	Addition
175	Collaborative Open Access Research and Development	Addition
176	KIT - Steinbuch Centre for Computing	Addition
177	Ubiquity Press Ltd	Addition
178	de.NBI - German Network for Bioinformatics Infrastructure	Addition
179	PlantNet consortium (hosted by Inria)	Addition
180	University of Oslo	Addition
181	CSC – IT CENTER FOR SCIENCE	Addition
182	Swiss National Supercomputing Centre	Addition
183	Meteorological and Environmental Earth Observation	Addition
184	Ruđer Bošković Institute	Addition
185	SeaDataNet	Addition
186	Virtual Atomic and Molecular Data Centre	Addition
187	SCIPEDIA	Addition
188	CORONIS COMPUTING SL	Addition

189	Elsevier BV	Addition
190	Diamond Light Source Ltd	Addition
191	expert.ai	Addition
192	Latin American Giant Observatory	Addition
193	Barcelona Supercomputing Center - Centro Nacional de Supercomputación	Addition
194	eScience Lab, The University of Manchester	Addition
195	Poznan Supercomputing and Networking Center	Addition
196	DDQ B.V.	Addition
197	Digital Research Infrastructure for the Arts and Humanities	Addition
198	Scientific IT Research Activities and Knowledge, ICT Division, CIEMAT	Addition
199	Energy Oriented Centre of Excellence	Addition
200	GBIF Spain	Addition
201	EGI Foundation	Addition
202	Euro-Mediterranean Center on Climate Change	Addition
203	BlueBRIDGE	Addition

Provider Scientific Domain / Subdomain

From the Revised Field of Science and Technology (FOS) Classification in the Frascati Manual by the Working Party of National Experts on Science and Technology Indicators (2007), OECD.

No.	Scientific Domain	No.	Scientific Subdomain	Changes v3.00 to v4.00
1	Natural Sciences	1	Mathematics	
		2	Computer and information sciences	
		3	Physical sciences	
		4	Chemical sciences	
		5	Earth and related environmental sciences	
		6	Biological sciences	
		7	Biodiversity	Reject
		8	Other natural sciences	
2	Engineering & Technology	1	Civil engineering	
		2	Electrical, electronic and information engineering	
		3	Mechanical engineering	
		4	Chemical engineering	
		5	Materials engineering	

		6	Medical engineering	
		7	Environmental engineering	
		8	Environmental biotechnology	
		9	Industrial biotechnology	
		10	Nano-technology	
		11	ICT	Reject
		12	Other engineering and technology sciences	
3	Medical & Health Sciences	1	Basic medicine	
		2	Clinical medicine	
		3	Health sciences	
		4	Medical biotechnology	
		5	Other medical sciences	
4	Agricultural Sciences	1	Agriculture, forestry, and fisheries	
		2	Animal and dairy sciences	
		3	Veterinary sciences	
		4	Agricultural biotechnology	
		5	Other agricultural sciences	
5	Social Sciences	1	Psychology	
		2	Economics and business	
		3	Educational sciences	
		4	Sociology	
		5	Law	
		6	Political sciences	
		7	Social and economic geography	
		8	Media and communications	
		9	Other social sciences	
6	Humanities	1	History and archaeology	
		2	Languages and literature	
		3	Philosophy, ethics and religion	
		4	Arts	
		5	Digital Humanities	Reject

		6	Other humanities	
7	Digital Sciences and Technology	1		Reject
8	Life and Physical Sciences	1	Life and Physical Sciences	Reject
9	Generic	1	Generic	
10	Other	1	Other	

Provider Country

From ISO 3166 standard – Codes for the representation of names of countries and their subdivisions, except for Greece and the United Kingdom (use EL and UK respectively instead of GR and GB) from Eurostat code lists.

No.	Country	Changes v3.00 to v4.00
1	Afghanistan (AF)	
2	Åland Islands (AX)	
3	Albania (AL)	
4	Algeria (DZ	
5	American Samoa (AS)	
6	Andorra (AD)	
7	Angola (AO)	
8	Anguilla (AI)	
9	Antarctica (AQ)	
10	Antigua and Barbuda (AG)	
11	Argentina (AR)	
12	Armenia (AM)	
13	Aruba (AW)	
14	Australia (AU)	
15	Austria (AT)	
16	Azerbaijan (AZ)	
17	Bahamas (BS)	
18	Bahrain (BH)	
19	Bangladesh (BD)	
20	Barbados (BB)	
21	Belarus (BY)	
22	Belgium (BE)	

23	Belize (BZ)	
24	Benin (BJ)	
25	Bermuda (BM)	
26	Bhutan (BT)	
27	Bolivia (BO)	
28	Bonaire, Sint Eustatius and Saba (BQ)	
29	Bosnia and Herzegovina (BA)	
30	Botswana (BW)	
31	Bouvet Island BV)	
32	Brazil (BR)	
33	British Indian Ocean Territory (IO)	
34	Brunei Darussalam (BN)	
35	Bulgaria (BG)	
36	Burkina Faso (BF)	
37	Burundi (BI)	
38	Cabo Verde (CV)	
39	Cambodia (KH)	
40	Cameroon (CM)	
41	Canada (CA)	
42	Cayman Islands (KY)	
43	Central African Republic (CF)	
44	Chad (TD)	
45	Chile (CL)	
46	China (CN)	
47	Christmas Island (CX)	
48	Cocos (Keeling) Islands (CC)	
49	Colombia (CO)	
50	Comoros (KM)	
51	Congo (Democratic Republic) (CD)	
52	Congo (CG)	
53	Cook Islands (CK)	
54	Costa Rica (CR)	

55	Côte d'Ivoire (CI)	
56	Croatia (HR)	
57	Cuba (CU)	
58	Curaçao (CW)	
59	Cyprus (CY)	
60	Czechia (CZ)	
61	Denmark (DK)	
62	Djibouti (DJ)	
63	Dominica (DM)	
64	Dominican Republic (DO)	
65	Ecuador (EC)	
66	Egypt (EG)	
67	El Salvador (SV)	
68	Equatorial Guinea (GQ)	
69	Eritrea (ER)	
70	Estonia (EE)	
71	Eswatini (SZ)	
72	Ethiopia (ET)	
73	Falkland Islands (FK)	
74	Faroe Islands (FO)	
75	Fiji (FJ)	
76	Finland (FI)	
77	France (FR)	
78	French Guiana (GF)	
79	French Polynesia (PF)	
80	French Southern Territories (TF)	
81	Gabon (GA)	
82	Gambia (GM)	
83	Georgia (GE)	
84	Germany (DE)	
85	Ghana (GH)	
86	Gibraltar (GI)	

87	Greece (EL)	
88	Greenland (GL)	
89	Grenada (GD)	
90	Guadeloupe (GP)	
91	Guam (GU)	
92	Guatemala (GT)	
93	Guernsey (GC)	
94	Guinea (GN)	
95	Guinea-Bissau (GW)	
96	Guyana (GY)	
97	Haiti (HT)	
98	Heard Island and McDonald Islands (HM)	
99	Holy See (VA)	
100	Honduras (HN)	
101	Hong Kong HK)	
102	Hungary (HU)	
103	Iceland (IS)	
104	India (IN)	
105	Indonesia (ID)	
106	Iran (IR)	
107	Iraq (IQ)	
108	Ireland (IE)	
109	Isle of Man (IM)	
110	Israel (IL)	
111	Italy (IT)	
112	Jamaica (JM)	
113	Japan (JP)	
114	Jersey (JE)	
115	Jordan (JO)	
116	Kazakhstan (KZ)	
117	Kenya (KE)	
118	Kiribati (KI)	

119	Korea (Democratic People's Republic) (KP)	
120	Korea (Republic) (KR)	
121	Kuwait (KW)	
122	Kyrgyzstan (KG)	
123	Lao People's Democratic Republic (LA)	
124	Latvia (LV)	
125	Lebanon (LB)	
126	Lesotho (LS)	
127	Liberia (LR)	
128	Libya (LY)	
129	Liechtenstein (LI)	
130	Lithuania (LT)	
131	Luxembourg (LU)	
132	Macao (MO)	
133	Madagascar (MG)	
134	Malawi (MW)	
135	Malaysia (MY)	
136	Maldives (MV)	
137	Mali (ML)	
138	Malta (MT)	
139	Marshall Islands (MH)	
140	Martinique (MQ)	
141	Mauritania (MR)	
142	Mauritius (MU)	
143	Mayotte (YT)	
144	Mexico (MX)	
145	Micronesia (FM)	
146	Moldova (MD)	
147	Monaco (MC)	
148	Mongolia (MN)	
149	Montenegro (ME)	
150	Montserrat (MS)	

151	Morocco (MA)	
152	Mozambique (MZ)	
153	Myanmar (MM)	
154	Namibia (NA)	
155	Nauru (NR)	
156	Nepal (NP)	
157	Netherlands (NL)	
158	New Caledonia (NC)	
159	New Zealand (NZ)	
160	Nicaragua (NI)	
161	Niger (NE)	
162	Nigeria (NG)	
163	Niue (NU)	
164	Norfolk Island (NF)	
165	North Macedonia MK)	
166	Northern Mariana Islands (MP)	
167	Norway (NO)	
168	Oman (OM)	
169	Pakistan (PK)	
170	Palau (PW)	
171	Palestine, State of (PS)	
172	Panama (PA)	
173	Papua New Guinea (PG)	
174	Paraguay (PY)	
175	Peru (PE)	
176	Philippines (PH)	
177	Pitcairn (PN)	
178	Poland (PL)	
179	Portugal (PT)	
180	Puerto Rico (PR)	
181	Qatar (QA)	
182	Réunion (RE)	

183	Romania (RO)	
184	Russian Federation (RU)	
185	Rwanda (RW)	
186	Saint Barthélemy (BL)	
187	Saint Helena, Ascension and Tristan da Cunha (SH)	
188	Saint Kitts and Nevis (KN)	
189	Saint Lucia (LC)	
190	Saint Martin (MF)	
191	Saint Pierre and Miquelon (PM)	
192	Saint Vincent and the Grenadines (VC)	
193	Samoa (WS)	
194	San Marino (SM)	
195	São Tomé and Príncipe (ST)	
196	Saudi Arabia (SA)	
197	Senegal (SN)	
198	Serbia (RS)	
199	Seychelles (SC)	
200	Sierra Leone (SL)	
201	Singapore (SG)	
202	Sint Maarten (SX)	
203	Slovakia (SK)	
204	Slovenia (SI)	
205	Solomon Islands (SB)	
206	Somalia (SO)	
207	South Africa (ZA)	
208	South Georgia and the South Sandwich Islands (GS)	
209	South Sudan (SS)	
210	Spain (ES)	
211	Sri Lanka (LK)	
212	Sudan (SD)	
213	Suriname (SR)	
214	Svalbard and Jan Mayen (SJ)	

215	Sweden (SE)	
216	Switzerland (CH)	
217	Syrian Arab Republic (SY)	
218	Taiwan (Province of China) (TW)	
219	Tajikistan (TJ)	
220	Tanzania (TZ)	
221	Thailand (TH)	
222	Timor-Leste (TL)	
223	Togo (TG)	
224	Tokelau (TK)	
225	Tonga (YO)	
226	Trinidad and Tobago (TT)	
227	Tunisia (TN)	
228	Turkey (TR)	
229	Turkmenistan (TM)	
230	Turks and Caicos Islands (TC)	
231	Tuvalu (TV)	
232	Uganda (UG)	
233	Ukraine (UA)	
234	United Arab Emirates (AE)	
235	United Kingdom of Great Britain and Northern Ireland (UK)	
236	United States Minor Outlying Islands (UM)	
237	United States of America (US)	
238	Uruguay (UY)	
239	Uzbekistan (UZ)	
240	Vanuatu (VU)	
241	Venezuela (VE)	
242	Viet Nam (VN)	
243	Virgin Islands (British) (VG)	
244	Virgin Islands (U.S.) (VI)	
245	Wallis and Futuna (WF)	
246	Western Sahara (EH)	

247	Yemen (YE)	
248	Zambia (ZM)	
249	Zimbabwe (ZW)	
250	Other	

Provider Life Cycle Status

No.	Provider Life Cycle Status	Description	Changes v3.00 to v4.00
1	Under Construction	The Provider is under construction.	
2	Operational	The Provider is constructed and all operations are being offered.	
3	Being Upgraded	The Provider is currently being upgraded. It is probable that many services are in containment or unavailable.	
4	In production, but actively developed		rejected
5	Other		

Provider Network

This list is based on a MERIL result.

No.	Provider Networks	Changes v3.00 to v4.00
1	4M Association (4M)	
2	African Archeologists Association (AAA)	
3	Academic Careers Understood through MEasurement and Norms (ACUMEN)	
4	Accessibility Assessment Simulation Environment for New Applications Design and Development (ACCESSIBLE)	
5	European Research Infrastructure for the observation of Aerosol, Clouds and Trace Gases (ACTRIS)	
6	Advancing 3Rs and International Standards in Biological and Biomedical Research (EUPRIM-Net)	
7	AErosol Robotic NETwork (AERONET)	
8	African Studies in Europe (AEGIS)	
9	Alianza por la Investigación y la Innovación Energéticas (ALINNE)	
10	ALISTORE European Research Institute (ALISTORE ERI)	
11	Advanced MEMS For RF and Millimeter Wave Communications (AMICOM)	
12	Analysis and Experimentation on Ecosystems (ANAEE)	

13	Animal Health and Welfare ERA-Net (ANIHWA)	
14	Alliance for Permanent Access to the Records of Science Network (APARSEN)	
15	Asociación de Empresas de Energías Renovables (APPA Marina)	
16	AQUAculture infrastructures for EXCELlence in European fish research towards 2020 (AQUAEXCEL)	
17	Support the sustainable development of aquaculture in the Mediterranean region (AQUAMED)	
18	CEH Aquatic Mesocosm Facility (CAMF)	
19	International network for capacity building for the control of emerging viral vector borne zoonotic diseases (ARBO-ZOONET)	
20	Asia-Europe Sustainable Connectivity Scientific Conference (ASEM)	
21	Association of European Marine Biological Laboratories Expanded (ASSEMBLE)	
22	Advanced Methods and Tools for Handling and Assembly in Microtechnology (ASSEMIC)	
23	Association of International Research and Development Centers for Agriculture (AIRCA)	
24	Assessment, STrategy And Risk Reduction for Tsunamis in Europe (ASTARTE)	
25	Astrodynamics Network (ASTRONET)	
26	Astroparticle Physics European Coordination (ApPEC)	
27	Atlantic Network of Geodynamical and Space Stations (REAGE)	
28	Austrian Centre for Scientific Comuting (ACSC)	
29	Baseline Surface Radiation Network (BSRN)	
30	Berlin-Brandenburg Institute of Advanced Biodiversity Research (BBIB)	
31	Biobanking and BioMolecular resources Research Infrastructure – European Research Infrastructure Consortium (BBMRI-ERIC)	
32	Bio-based Industries Consortium (BIC)	
33	Biocenter Finland (BF)	
34	Biodiversity Research Network (ALTER-Net)	
35	Biological Alert Laboratories Network, Spain (RELAB)	
36	Biomass Research Infrastructure for Sharing Knowledge (BRISK)	
37	Biological Nuclear Magnetic Resonance (Bio-NMR)	
38	Biobank Standardisation and Harmonisation for Research Excellence in the European Union (BioSHaRE-EU)	

39	Transnational access and enhancement of integrated Biological Structure determination at synchrotron X-ray radiation facilities (BioStruct-X)	
40	European Botanic Gardens Consortium International (BGCI)	
41	Budapest Neutron Centre (BNC)	
42	Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observation (CALIPSO)	
43	Connecting Archaeology and Architecture in Europe (CARARE)	
44	Coordinating Systems Medicine across Europe (CASyM)	
45	Census Data Open Linked (CEDAR)	
46	Center for Organelle Research (CORE)	
47	Central European Research Infrastructure Consortium (C-ERIC)	
48	European Research Infrastructure for Language Resources and Technology (CLARIN)	
49	Development of european pilot network of stations for observing cloud profiles (CLOUD-NET)	
50	Cross National Equivalent File (CNEF)	
51	Cohort and Longitudinal Studies Enhancement Resources (CLOSER)	
52	Collaboration to Clarify the Costs of Curation (4C)	
53	Collections Policy Board (CPB)	
54	Comité Polar Español (CPE)	
55	Cancer Organoids Multiplexed Screening in Microfluidic Textile chips (COMMIT)	
56	Committee Research with Neutrons (KFN)	
57	Common Access to Biotechnological Resources and Information (CABRI)	
58	Consortium of European Social Science Data Archives (CESSDA)	
59	Consortium of European Taxonomic Facilities (CETAF)	
60	Cooperative Research Ships (CRS)	
61	Convenient Access to Light Sources Open to Innovation, Science and to the World (CALIPSOplus)	
62	Coordinated Research Infrastructures Building Enduring Life-Science Services (CORBEL)	
63	Communication and Policy development for Research Infrastructures in Europe (CoPoRI)	
64	The inter-university core facility network (IcoFNET)	

65	Council for the Development of Social Science Research in Africa (CODESRIA)	
66	Council of Managers of National Antarctic Programs (COMNAP)	
67	Citizenship, Recovery and Inclusive Society Partnership (CRISP)	
68	Cultural Heritage Advanced Research Infrastructures (CHARISMA)	
69	European Data Centre Association (EUDCA)	
70	German Scientific Library Services and Information Systems (DFG LIS)	
71	Digital Research Infrastructure for Arts and Humanities (DARIAH)	
72	Dutch Techcentre for Life Sciences (DTL)	
73	Enhancing Access and Services To East European users towards an efficient and coordinated panEuropean pool of NMR capacities to enable global collaborative research & boost technological advancements (EAST-NMR)	
74	European Advanced Translational Research Infrastructure in Medicine (EATRIS)	
75	Creating conditions for persistence of biodiversity in the face of climate change (EcoChange)	
76	European Clinical Research Infrastructures Network - Integrating Activity (ECRIN-IA)	
77	Biology and control of vector-borne infections in Europe (EDENEXT)	
78	European Facility for Advanced Seismic Testing (E-FAST)	
79	European Fusion Development Agreement (EFDA)	
80	European Holocaust Research Infrastructure (EHRI)	
81	European Science Teachers Initiative (ESTI - EIROforum)	
82	European Marine Biological Resource Centre (EMBRC)	
83	European Magnetic Field Laboratory (EMFL)	
84	European Network for Diagnostics of Imported Viral Diseases (ENIVD)	
85	Entreprise Europe Network (EEN)	
86	Environmental Research Infrastructures (ENVRI)	
87	EPIZONE European Research Group (ERG)	
88	European Technology Platform on Smart Systems Integration (EpoSS)	
89	Association of European Research Establishments in Aeronautics (EREA)	
90	European Research Infrastructure for Heritage Science Preparatory Phase (E-RIHS)	
91	European Research Infrastructure on Highly Pathogenic Agents (ERINHA)	
92	European Reference Network for Critical Infrastructure Protection (ERNCIP)	

93	European Sequencing and Genotyping Infrastructure (ESGI)	
94	European Society for the study of Human Evolution (ESHE)	
95	Advanced Energy STorage and Regeneration System for Enhanced Energy Management (ESTEEM)	
96	European Strategic Wind Tunnels Improved Research Potential (ESWIRP)	
97	Enabling the European Nanomedicine Area (NANOMED)	
98	Supporting environmental, nature conservation and climate action projects throughout the EU (EU-Life)	
99	e-Infrastructure in the Mediterranean region dedicated for research and educational use (EUMEDCONNECT)	
100	European Infrastructure of Open Screening Platforms for Chemical Biology (EU-OPENSCREEN)	
101	European Network of Freshwater Research Organisations (EurAqua)	
102	European Atomic Energy Community (Euratom)	
103	European rail research network of excellence (EUR²EX)	
104	Research infrastructure for imaging technologies in biological and biomedical sciences (Euro-BioImaging)	
105	Integration of European Simulation Chambers for Investigating Atmospheric Processes (EUROCHAMP)	
106	Activities of the Roadmap to Fusion during Horizon 2020 through a Joint programme of the members of the EUROfusion consortium (EUROfusion)	
107	European Aerosol Research Lidar Network (EARLINET)	
108	European Aquaculture Technology and Innovation Platform (EATIP)	
109	European Association for Solar Telescopes (EAST)	
110	European Cancer Organisation (ECCO)	
111	European Commission for the control of Foot and Mouth Disease (EuFMD)	
112	European Consortium for Ocean Research Drilling (ECORD)	
113	European Coordination for Accelerator Research & Development (EUCARD)	
114	European Cluster of Advanced Laser Light Sources (EUCALL)	
115	European Culture Collections' Organisation (ECCO)	
116	European Data Infrastructure (EUDAT)	
117	European Energy Research Alliance (EERA)	
118	European Facility for Airborne Research (EUFAR)	
119	European Federation for Primatology (EFP)	
120	European Grid Infrastructure (EGI)	

121	European Infrastructure of Open Screening Platforms for Chemical Biology (EU-OPENSCREEN)	
122	European Institute for Biomedical Imaging Research (EIBIR)	
123	European Labour History Network (ELHN)	
124	European Librarians in African Studies (ELIAS)	
125	European Life Sciences Infrastructure For Biological Information (ELIXIR)	
126	European Light Microscopy Initiative (ELMI)	
127	European Molecular Biology Network (EMBnet)	
128	European Monitoring Agency for Drugs and Drug Addition (EMCDDA)	
129	European Mouse Mutant Archive (EMMA)	
130	European Multidisciplinary Seafloor Observation (EMSO)	
131	European Open Science Cloud (EOSC)	
132	European Open Science Cloud (EOSC) Photon and Neutron Data Service (ExPaNDS)	
133	European Network for Animal Disease and Infectiology Research Facilities (NADIR)	
134	European Network of Marine Research Institutes and Stations (MARS)	
135	European Network of Vaccine Research and Development (TRANSVAC2)	
136	European Nuclear Science and Applications Research (ENSAR)	
137	European Plant Phenotyping Network (EPPN)	
138	European Plate Observing System (EPOS)	
139	European Polar Board (EPB)	
140	European Research Vessels Operators (ERVO)	
141	European Social Survey Sustainability (ESS-SUSTAIN)	
142	European Technology Platform for High Performance Computing (ETP4HPC)	
143	European VLBI Network (EVN)	
144	European Windtunnel Association (EWA)	
145	European, Middle Eastern and African Society for Biopreservation and Biobanking (ESBB)	
146	Platform for Digital Cultural Heritage (Europeana)	
147	EUROPLANET 2020 Research Infrastructure (EPN2020-RI)	
148	EUROPEAN SOLAR RESEARCH INFRASTRUCTURE FOR CONCENTRATED SOLAR POWER (EU-SOLARIS)	

149	European Vasculitis Study Group (EUVAS)	
150	Event Horizon Telescope (EHT)	
151	European VLBI Network (EVN)	
152	Experimentation in Ecosystem Research (ExpeER)	
153	Federation of European Neurosciences (FENS)	
154	European research infrastructure for imaging technologies in biological and biomedical sciences (BioImaging Network)	
155	Food and Agricultural Organisation of the United Nations (FAO)	
156	The European Fusion Education Network (FUSENET)	
157	GAW Aerosol Lidar Observations Network (GALION)	
158	Gauss Centre for Supercomputing (GCS)	
159	Global Atmosphere Watch Programme (GAW)	
160	GBIF Nodes Network	
161	Global Climate Observing System (GCOS)	
162	Network of French researchers involved in chemical biology approaches (GDR ChemBioScreen)	
163	Pan-European Research and Education Network (GÉANT)	
164	National Genome Research Network (NGFN)	
165	German Consortium for Translational Cancer Research (DKTK)	
166	German Data Forum (RatSWD)	
167	Global Alliance for Zika Virus Control and Prevention (ZIKAlliance)	
168	Global Atmosphere Watch Programme-cooperation Germany, Austria, Switzerland (GAW-DACH)	
169	Global Biodiversity Information Facility (GBIF)	
170	Global Earth Observation System of Systems (GEOSS)	
171	Global Genome Biodiversity Network (GGBN)	
172	Global Lake Ecology Observatory Network (GLEON)	
173	The Global mm-VLBI Array (GMVA)	
174	Global Network for Taxonomy (BioNET)	
175	Global Mercury Observation System (GMOS)	
176	European GNSS Service Centre (GSC)	
177	Global Ocean Observing System (GOOS)	
178	Leibniz Library Network for Research Information consortium (Goportis)	

179	GCOS Reference Upper-Air Network (GRUAN)	
180	Grupo Interinstitucional y Comunitario de Pesca Artesanal del Pacífico Chocoano (GIPCA)	
181	Gentle User Interfaces for Disabled and Elderly Citizens (GUIDE)	
182	Integrating European Infrastructure to support science and development of Hydrogen- and Fuel Cell Technologies towards European Strategy for Sustainable, Competitive and Secure Energy (H2FC)	
183	Helmholtz Centre for Infection Research (HZI)	
184	Dresden High Magnetic Field Laboratory (Hochfeld-Magnetlabor Dresden, HLD)	
185	Human Brain Project (HBP)	
186	Human Proteome Project (HUPO)	
187	HUMAN centred design for Information Society Technologies (Humanist)	
188	Highly-complex and networked control systems (HYCON2)	
189	Complex Interaction of Water with Environmental Elements, Sediment, Structures and Ice (Hydralab)	
190	Ibero-american network for the study of carotenoids as food ingredients (IBERCAROT)	
191	Inclusive Blockchain Insurance using Space Assets (IBISA)	
192	Ice Age Europe (ICEAGE)	
193	International Council of Museums (ICOM)	
194	International Council for Scientific and Technical Information (ICSTI)	
195	International Forum for Aviation Research Support Action (IFARS)	
196	International Long Term Ecological Research (ILTER)	
197	Infrastructure for NMR, EM and X-rays for translational research (iNEXT)	
198	Infrafrontier The European infrastructure for phenotyping and archiving of model mammalian genomes (INFRAFRONTIER)	
199	INfraStructure in Proton International Research (INSPIRE)	
200	Integrated non-CO2 Greenhouse Gas Observing Systems (InGOS)	
201	Integrated Carbon Observation System (ICOS)	
202	Integrated Infrastructure Initiative for Neutron Scattering and Muon Spectroscopy (NMI3)	
203	Intergovernmental Oceanographic Commission/International Oceanographic Data and Information Exchange (IOC/IODE)	
204	Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES)	

205	Internal Magnets for DNP (DNPMAG)	
206	International Association of Labour History Institutions (IALHI)	
207	International Barcode of Life (IBOL)	
208	International Cancer Genome Consortium (ICGC)	
209	International Council for the Exploration of the Sea (ICES)	
210	International Council of Museums (ICOM)	
211	International Council on Archives (ICA)	
212	International Energy Agency (IEA)	
213	International Atomic Energy Agency (IAEA)	
214	International Federation of Data Organizations (IFDO)	
215	International Gravity Reference System (IGRS)	
216	International Mouse Knock-out Consortium (IKMC)	
217	International Mouse Phenotyping Consortium (IMPC)	
218	International Mouse Strain Resources (IMSR)	
219	International Network for Terrestrial Research and Monitoring in the Arctic (INTERACT)	
220	International Network of Ground-Based Microwave Radiometers (MWRnet)	
221	International Ocean Drilling Program (IODP)	
222	International Panel Survey Methods Workshops (IPSMW)	
223	International Primatological Society (IPS)	
224	International programme of biodiversity science (DIVERSITAS)	
225	International Research Institute of Stavanger (IRIS)	
226	International Research Ship Operators (IRSO)	
227	International Society for Atmospheric Research using Remotely Piloted Aircraft (ISARRA)	
228	International Society for Biological and Environmental Repositories (ISBER)	
229	International Tokamak Physics Activity (ITPA)	
230	International Towing Tank Conference (ITTC)	
231	International Virtual Observatory Alliance (IVOA)	
232	International VLBI Service for Geodesy & Astrometry (IVS)	
233	Infrastructure for Systems Biology – Europe (ISBE)	
234	International Society for Biological and Environmental Repositories (ISBER)	
235	International Society of Nephrology (ISN)	

236	Innovation Technologies and Applications for Coastal Archaeological sites (ITACA)	
237	International Union for Conservation of Nature / Species Survival Commission (IUCN/SSC)	
238	International Virtual Observatory Alliance (IVOA)	
239	Kernel-Based ARchitecture for safetY-critical cONtrol (KARYON)	
240	Innovative Radiopharmaceuticals in Oncology and Neurology (Labex IRON)	
241	Large Binocular Telescope (LBT)	
242	Critical success factors for fish larval production in European Aquaculture: a multidisciplinary network (LarvaNET)	
243	Integrated Initiative of European Laser Research Infrastructures (LASERLAB-EUROPE)	
244	Lasers for Applications at Accelerator facilities for ion beam generation, acceleration and diagnostics (LA³NET)	
245	League of European Accelerator-based Photon Sources (LEAPS)	
246	European Distributed Information Technology for Health Care (EDITH)	
247	e-Infrastructure for Biodiversity and Ecosystem Research (LifeWatch)	
248	Laboratoire National de Champs Magnétiques Intenses (LNCMI)	
249	Low Voltage Agreement Group (LOVAG)	
250	European Long-Term Ecosystem and socio-ecological Research Infrastructure (eLTER)	
251	MAnagement of Security information and events in Service InFrastructures (MASSIF)	
252	Marine Renewables Infrastructure Network for Emerging Energy Technologies (MARINET)	
253	Mediterranean Operational Network for the Global Ocean Observing System (MONGOOS)	
254	Network of leading MESOcosm facilities to advance the studies of future AQUAtic ecosystems from the Arctic to the Mediterranean (MESOAQUA)	
255	Open virtual network for aquatic mesocosm facilities worldwide (MESOCOSM)	
256	Meson Physics in Low-Energy QCD (MesonNet)	
257	Organization devoted to the development of metabolism-based research (Metabolomics Society)	
258	Open and secure network of repositories for sharing and exchanging language data, tools and related web services (META-SHARE)	
259	Open Technology for Digitalisation (Meters & More)	

260	Microbial Resources Research Infrastructure (MIRRI)	
261	Millennium Seed Bank (MSB) Partnership	
262	MIcro-and NAnotechnology Manufacturing (MINAM)	
263	Musical Instrument Museums Online (MIMO)	
264	Prototype Operational Continuity for the GMES Ocean Monitoring and Forecasting Service (MyOcean2)	
265	A network for bringing NANOtechnologies TO LIFE (NANO2LIFE)	
266	Nanostructured and Functional Polymer-based Materials and Nanocomposites (NANOFUN-POLY)	
267	A cross-ETP Coordination Initiative on nanotechnology (NANOfutures)	
268	National Genome Research Network (NGFN)	
269	National Network for Electron Microscopy (RNME)	
270	Network for the Detection of Atmospheric Composition Change (NDACC)	
271	A Network of Excellence for Advanced Road cooperative traffic management in the Information Society (NEARCTIS)	
272	Network for Digital Methods in the Arts and Humanities (NeDiMAH)	
273	Network of Aquaculture Centres in Central-Eastern Europe (NACEE)	
274	Network of European CEntrifige for Research (NECER)	
275	RO-Crate Community	Reject
276	RO-Crate	Addition
277	Networking Lake Observatories in Europe (NETLAKE)	
278	Federation of European Neuroscience Societies (FENS)	
279	Neutron scattering and Muon Spectroscopy Integrating Infrastructure Initiative (NMI3)	
280	New operational steps towards an alliance of European research fleets (EUROFLEETS2)	
281	Towards Game-changer Service Operation Vessels for Offshore Windfarms (NEXUS)	
282	Nordic Microscopy Society (SCANDEM)	
283	Nordic Nanolab Network (NNN)	
284	Nuclear Physics Network (NuPNET)	
285	Ocean Facilities Exchange Group (OFEG)	
286	Open Access Infrastructure for Research in Europe (OpenAIRE)	
287	Open Planets Foundation (OPF)	

288	Optical Infrared Coordination Network for Astronomy (OPTICON)	
289	Organisation of European Cancer Institutes (OECI)	
290	Photon and Neutron Open Science Cloud (PaNOSC)	
291	Parelsnoer Institute (PSI)	
292	Partnership for European Environmental Research (PEER)	
293	Design for Micro & Nano Manufacture (PATENT-DfMM)	
294	PATrimoines matériels : Réseau d'Instrumentation Multisites Equipex (PATRIMEX)	
295	Photonics community of industry and research organisations (PHOTONICS21)	
296	Polar barcode of life (IBOL)	
297	Partnership for Advanced Computing (PRACE)	
298	PoweRline Intelligent Metering Evolution Alliance (PRIME)	
299	Proteomics Research Infrastructure Maximising knowledge EXchange and access (PRIME-XS)	
300	Protein Production and Purification Platforms in Europe (P4EU)	
301	Proteomics and Metabolomics Core Facility (PROMEC)	
302	Carlos III Networked Proteomics Platform (ProteoRed-ISCIII)	
303	Public Population Project in Genomics and Society (P³G)	
304	An international network of 50 CubeSats for multi-point, in-situ measurements in the lower thermosphere and re-entry research (QB50)	
305	Belgian Network for Radiation Applications in Healthcare (Rad4med)	
306	Advanced Radio Astronomy in Europe (RadioNet)	
307	Rede de Remediação e Reabilitação de Ambientes Degradados (READE)	
308	International Excellence Research Network (REBT)	
309	Research Data Alliance (RDA)	
310	Research infrastructures for the control of insect vector-borne diseases (Infravec2)	
311	Resource Network Supporting Academic Chemical Biology Research (ChemBioNet)	
312	Flagship Project is one of the National Research Programmes funded by the Italian Ministry of University and Research (RITMARE)	
313	European Association for Transactional analysis (EATA)	
314	SatNav Network	
315	Scalable, Secure Storage of Biobank Data (BiobankCloud)	

316	Scandinavian Dialect Syntax Network (ScanDiaSyn)	
317	Scientific Collections International (SciColl)	
318	Science and Applications of ultrafast and ultraintense lasers (SAUUL)	
319	World class Science and Innovation with Neutrons in Europe (SINE)	
320	ScienceLink Network	
321	Standard Conference on Library Materials on Africa (SCOLMA)	
322	Pan-European infrastructure for ocean & marine data management (SeaDataNet)	
323	Security for Future Networks (SecFuNet)	
324	Security for smart Electricity GRIDs (SEGRID)	
325	Seismic Engineering Research Infrastructures for European Synergies (SERIES)	
326	Seismology and Earthquake Engineering Research Infrastructure Alliance for Europe (SERA)	
327	Square Kilometer Array (SKA)	
328	Society for Neuroscience (SfN)	
329	Society for the Preservation of Natural History Collections (SPNHC)	
330	Society for Tropical Ecology (GTO)	
331	Society of Primatology (ASP)	
332	High-Resolution Solar Physics Network (SOLARNET)	
333	Social Platrform for Holistic Heritage Imapct Assessment (SOPHIA)	
334	Scalable privacy preserving intelligence analysis for resolving identities (SPIRIT)	
335	State-Trait Anxiety Inventory (STAI)	
336	Standing Committee Research Data Infrastructure (FDI)	
337	Stations at High Altitude for Research on the Environment (SHARE)	
338	Strange Particles in Hadronic Environment Research in Europe (SPHERE)	
339	Cooperation between Superconductivity and Magnetism in Mesoscopic systems (SuperMAG)	
340	Swiss Institute for Art Research (SIK-ISEA)	
341	Information Network of European Natural History Collections (SYNTHESYS)	
342	Trustworthy Clouds Privacy and Resilience for Internet-scale Critical Infrastructure (TClouds)	
343	Biodiversity Information Standards (TDWG)	

344	Teide and Roque de los Muchachos Observatories (ORM)	
345	Telescopio Nazionale Galileo (TNG)	
346	Towards a joint European research infrastructure network for coastal observatories (JERICO)	
347	Towards an Alliance of European Research Fleets (EUROFLEETS)	
348	Transnational Access to MAMI (MAMI)	
349	Integrative European Research Infrastructure project to integrate, develop and improve major forest genetics and forestry research (TREES4FUTURE)	
350	UK Environmental Change Network (ECN)	
351	Veterinary Biocontained facility Network for excellence in animal infectious disease research and experimentation (VetBioNet)	
352	Virtual Atomic and Molecular Data Center (VAMDC)	
353	VISION Advanced Infrastructure for Research (VISIONAIR)	
354	VLBI2010 Global Observing System (VGOS)	
355	Virtual Physiological Human Network of Excellence (VPH)	
356	Worldwide e-Infrastructure for NMR and structural biology (WeNMR)	
357	Ultrafast Nanooptics Research Group - Wigner Research Centre for Physics (UNRG)	
358	World Data Centre for Microorganisms (WDCM)	
359	World Data System (WDS)	
360	World Federation for Culture Collections (WFCC)	
361	World Organisation for Animal Health (OIE)	
362	WorldWide LHC Computing Grid (wLCG)	
363	Word Wide NMR (WW-NMR)	
364	Zoonoses Anticipation and Preparedness Initiative (ZAPI)	
365	Other	

Provider Structure Type

No.	Provider Type	Description	Changes v3.00 to v4.00
1	Single-sited	The Provider has one main physical location for users.	
2	Distributed	The Provider has multiple physical locations but a unified management structure and a single coordination centre.	
3	Mobile	The Provider is changing its physical location on a regular basis (e.g., satellites, research vessels).	

No.		Description	
4	Virtual	The Provider is exclusively an electronic resource/service.	
5	Other		

Provider ESFRI Domain

No.	ESFRI Domain	Description	Changes v3.00 to v4.00
1	Energy	The energy sector is key to social and economic development. Especially in some non-OECD countries the energy sector sees very high growth rates due to rising GDP. However, it contributes significantly to global CO_2 emissions. For the EU, the reduction of CO_2 emissions in a sustainable framework is a major driver of its energy policy. This provides opportunities for new technologies both for application within and outside of the EU.	
2	Environment	Environmental sciences are traditionally divided into four research and study domains: ATMOSPHERE, HYDROSPHERE, BIOSPHERE and GEOSPHERE. These different spheres are closely interlinked, and therefore environmental sciences can also be presented according to Grand Challenges, such as loss of biodiversity, pollution, depletion of natural resources, risks, hazards and climate change.	
3	Health & Food	There is a broad consensus that future competitiveness in a globalised knowledge economy depends on research capability. Research Infrastructures (RIs) in the Biological, Agri-Food and Medical Sciences – i.e. Health & Food – continue to establish themselves as research, innovation and skills hubs and as a motor for economic impact. This is reflected in increasing levels of industrial access to RIs, and in their European and global positioning.	
4	Physical Sciences & Engineering	Research Infrastructures are integral part of the dayto-day activity of Physical Sciences & Engineering. Historically and today the PSE RIs are integrated in the way research is done in these disciplines, and major advances in knowledge are achieved by the research performed at RIs. However, the RIs are much more than research tools; they are truly Hubs of Knowledge & Innovation with a complete multidisciplinary approach and a systematic impact on many areas beyond Physical Sciences and Engineering.	

5	Social & Cultural Innovation	Research Infrastructures that support research across and within the Social & Cultural Innovation domain are among the first known infrastructures: libraries, museums and archives are the most obvious examples of this legacy. In today's digital age, Research Infrastructures in the Social Sciences and Humanities (SSH) enhance research into the historical, social, economic, political and cultural contexts of the European Union, providing data and knowledge to support its strategies.	
6	Data, Computing and Digital Research Infrastructures	In research, as in all fields of society, Information and Communications Technology (ICT) has become a key enabling factor for progress. ICT is also changing the modus operandi of research by providing new possibilities for geographically distributed collaboration and sharing. Data-driven science, as well as more and more open access to data and scientific results, is transforming not only how research is conducted, but its overall reach.	
7	Other		

Provider ESFRI Type

No.	Provider ESFRI type	Changes v3.00 to v4.00
1	RI is a node of an ESFRI project	
2	RI is an ESFRI project	
3	RI is an ESFRI landmark	
4	Not an ESFRI project or landmark	
5	Other	

Provider MERIL Scientific Domain / Subdomain

This list is based on a MERIL result.

No.	Scientific Domain		No.	Scientific Subdomain	Description	Changes v3.00 to v4.00
1	Biological & Medical Sciences		**1**	Agronomy, Forestry, Plant Breeding Centres	Facilities that enable open field and forest experiments to test the impact of management practices and of environmental conditions on soil, crop, and primary production. These include plants and trees ex-situ collections, experimental facilities for controlled crosses and propagation, and population genetics	

					field testing. The facilities are relevant for Biological- and Environmental Sciences.	
			2	Animal Facilities	Facilities that provide husbandry of animals and services to the biomedical research community, usually equipped with highly automated systems that provide the best possible conditions for animal reproduction and maintenance. The main activity is the reproduction and maintenance of animal stocks either of inbred strains or genetically engineered animals, such as transgenic and knockout mouse lines, or even chemically-induced mutants.	
			3	Collections of Biological Resources (e.g. Microorganisms, Biobanks and Seed Banks)	Facilities for storage of collections of microorganisms, biological material and the associated data and information facilities for a population or a large subset of a population, maintained under controlled conditions (temperature, humidity, atmosphere, etc.). The biological resources, including microorganisms, human/animal cells, tissue, blood and DNA, seeds of crops, trees and wild plant species, are conserved for their genetic endowment. Databases established on these provide holistic information on each accession with scientific descriptors, ethno-botanical/ zoological/microbiological/medical knowledge, including for the purpose of establishing intellectual property rights and ownership over the biomaterial stored	
			4	Bio-Informatics Facilities	Bioinformatics facilities generate knowledge through computer analysis of biological data. These can consist of the information stored in the genetic code, but also experimental results from various sources, patient statistics, and scientific literature. Research in bioinformatics includes method	

						development for storage, retrieval, and analysis of the data. Bioinformatics is a rapidly developing branch of biology and is highly interdisciplinary, using techniques and concepts from informatics, statistics, mathematics, chemistry, biochemistry, physics, and linguistics. It has many practical applications in different areas of biology and medicine.	
			5	Biological/Biomedical Engineering and Biotechnology/Nanotechnology Research Facilities		Facilities that are dedicated to application of concepts and methods of bioscience and/or nanoscience, and/or use of living systems and organisms to develop solutions to problems in life- and preclinical sciences using engineering methodologies.	
			6	Biomedical Imaging Facilities		Facilities which are equipped for visualisation, characterisation, and measurement of biological processes at the cellular and tissue levels in humans and other living systems.	
			7	Cell Culture Facilities		Facilities that are equipped to provide robust support for isolation and culture of a variety of cell lines (like mammalian and insect cell lines, mouse and human embryonic stem cells), including serum preparation, feeders, growth factors and mycoplasma testing, this may be on serum-based or serum-free media.	
			8	Clinical Research Centres		Facilities that support patient-oriented research, involving a particular person or group of people or using materials from humans. This research can include: studies of mechanisms of human disease; studies of therapies or interventions for disease; clinical trials; studies to develop new technology related to disease.	
			10	Environmental Health Research Facilities		Environmental health research addresses all potential hazards caused to a human being or an animal by external physical, chemical, and biological factors, and	

					all the related factors impacting behaviours. It encompasses the assessment and control of those environmental factors that can potentially affect health. It is targeted towards preventing disease and creating health-supportive environments. This definition excludes behaviour not related to environment, as well as behaviour related to the social and cultural environment, and genetics. This category includes toxicology and infectious diseases facilities as well as epidemiological study centres.	
			11	Genomic, Transcriptomic, Proteomics and Metabolomics Facilities	Multiple sites ranging from single laboratory DNA sequencing and RNA transcript analysis facilities run by biologists for their own department's research to high-throughput facilities aimed at providing a sophisticated service for a broad community of biologists run by informaticians, biologists and engineers. Proteomics: physical chemistry developments for clinical and biological applications getting access to proteins network linked to the physiological and pathological stated of the cells. This includes nutrigenomics research.	
			12	Structural Biology Facilities	Facilities which are equipped for visualisation, characterisation, and measurement of biological processes at the molecular level in humans and other living systems. Main technologies include protein crystallisation, X-ray diffraction, mass spectrometry, DSC.	
			13	Systems Biology/Computational Biology Facilities	Laboratories that combine all relevant scientific disciplines and the know-how to integrate experimental data with computational and theoretical approaches with the aim of targeting, understanding and engineering pathways, cells, organs and complete organisms.	

			14	Telemedicine Laboratories and E-Health Technologies	E-Health is an emerging concept relating to the use of networked digital ICTs (primarily the Internet) to facilitate the organisation & delivery of health care and services. It encompasses applications for providers and organisations (e.g. for storing, exchanging and using clinical or administrative data, or aiding evidence-based practice) and for citizens and patients (e.g. web-based health information, education, virtual consulting), as well as research applications of e- Health technologies.	
			15	Translational Research Centres	Translational Research Centres support the integration of evidence based medicine, social sciences and political sciences with the aim of optimising patient care and preventive measures which may extend beyond healthcare services. This is the process of turning appropriate biological discoveries into drugs and medical devices that can be used in the treatment of patients.	
			16	Other		
2	Chemistry and Material Sciences		1	Analytical Facilities	All facilities where analytical tools are used that are based on one of the following probes or methods: electrons, photons, neutrons, radio frequency, NMR, or analytical chemistry. It does include Surface Science Laboratories dedicated to analysis and characterization of surface and interface phenomena. Different users would come from the scientific domains Chemistry, Earth science, Bio-Medical (including forensic) science and different sensitivities (Analytical Chemistry, electron microscopy laboratories); NMR facilities; surface science laboratories; x- ray diffraction; Electron Microscopy Laboratories, aspects in life sciences, earth, forensics; Surface Science Laboratories.	

			2	Chemical Libraries and Screening Facilities	Digital libraries related to chemistry as well as screening facilities.	
			3	Intense Light Sources	All facilities that provide access to intense light radiation sources as used for lasers, synchrotrons, Free Electron Lasers. The facilities are relevant to the scientific domains of Physics, Chemistry, Bio-Medical Sciences, Earth and Environmental Sciences, Humanities & Arts, Information Science & Technology; Laser Sources for materials synthesis laboratories; Laser Sources for spectroscopy laboratories; Synchrotron Light Sources and X-Ray Diffraction Facilities.	
			4	Intense Neutron Sources	Accelerator-based neutron source facility that provides the intense pulsed neutron beam.	
			5	Materials Synthesis or Testing Facilities	All single or multi sited facilities run by engineers and materials scientists to process or test materials with regard to predefined specifications. It includes testing and processing equipment, structural and properties characterization instruments. The facilities are relevant to the scientific domains of Engineering, Materials Sciences, Physics, and Chemistry.	
			6	Pilot Plants for Process Testing	Plants where processes in biological or chemical systems, including bioenergy/biorefinery research and food processing research, are tested on a pilot level scale. Biology, Chemistry.	
			7	Reference Material Repositories	Facilities providing materials with at least one standardised and fully described property that can be used in measurements e.g. as a standard for calibration of instruments or as reference for measuring other materials.	
			8	Other		
3	Earth and Environmental Sciences		**1**	Acoustic Monitoring Stations	Non audible very low frequency waves infrasound stations, (volcano meteors monitoring, avalanches, landslides) ; audible frequency	

					stations and hydro acoustic stations (marine mammals, multi-beam, acoustic tomography, echosounders, sodar); high frequency stations (T-phase stations).	
			2	Atmospheric Measurement Facilities	Meteorological stations (all physical parameters that can be observed) ; Global Atmospheric Watch (GAW); Airglow; Ionospheric stations (all sky cameras, ionospheric radar); brewers; lidars; chemical compositions, pollution and radionuclides facilities; This includes atmospheric test chambers, used to conduct controlled experiments for climate change research and atmosphere related problems.	
			3	Earth Observation Satellites	Including Optical-IR Earth Observation satellites and Radar Earth Observation satellites.	
			4	Earth, Ocean, Marine, Freshwater, and Atmosphere Data Centres	Platforms for the exchange of earth, oceanographic, marine, freshwater and atmospheric data and information, and for advisory services in the field of earth, ocean, marine, freshwater and atmospheric data management. National Data Centres, Designated National Agencies for international data exchange and Satellite Data Centres represent the backbone of the data and information infrastructure. National networks are usually put in place to interconnect the data centres of major national institutes. The overall objective is to significantly improve the overview and access to data and data analysis from government and research institutes.	
			5	Earthquake Simulation Laboratories	Facilities that are equipped to do computer-assisted earthquake simulation.	
			6	Environmental Management Infrastructures	Pilot facilities and experimental infrastructures for management, ecological restoration and environmental mitigation of terrestrial and aquatic ecosystems in	

					natural or degraded conditions (including hydrological and soil management field facilities; decontamination and bioremediation facilities and pilot plants).	
			7	Geothermal Research Facilities	Facilities that enable research, development, and demonstration of technologies to advance the use of geothermal energy as a clean, renewable, domestic power source.	
			8	In Situ Earth Observatories	Platforms and sensor technologies deployed in situ to collect environmental data (including physical, chemical and biological observations) in support of terrestrial environmental research and management activities. These facilities, including ecological habitat field stations, provide a base for trans-disciplinary research and training, with access to terrestrial field sites for survey and experimental opportunities and often supporting environmental observations and the collection of long-term time series data sets (a.o. on biodiversity).	
			9	In Situ Marine/Freshwater Observatories	Platforms and sensor technologies deployed in situ to collect environmental data (including physical, chemical and biological observations) in support of aquatic environmental research and management activities. These facilities, including marine/freshwater research centres, provide a base for trans-disciplinary research and training, with access to marine and freshwater field sites, and equipment (including research vessels that may carry large exchangeable underwater equipment/instruments) for survey and experimental opportunities and often supporting environmental observations and the collection of long-term time series data sets (a.o. on biodiversity). Typical equipment includes: Buoys; Argo; gliders;	

				autonomous underwater vehicles; remotely operated vehicle (Victor); Tide gauges; deep sea laboratories. Ship-time for stock assessments, polar supply, naval research, and educational courses and non-academic research are not considered in this context. For this inventory the atmospheric measurement facilities are kept as a separate category. This implies that some marine research centres will also fall under this category if they host an atmospheric measurement site.	
		10	Natural History Collections	Facilities that serve as a library of organisms have lived and/or are living on Earth and curation sites for materials relevant for planetary exploration. They contribute to specific research and public education in an easily accessible venue.	
		11	Polar and Cryospheric Research Infrastructures	Arctic and Antarctic stations; high altitude and mountain stations; heavy icebreakers; International Partnerships in Ice Core Sciences (IPICS); ANDRILL; Polar Ionospheric stations.	
		12	Research Aircraft	-	
		13	Solid Earth Observatories, including Seismological Monitoring Stations	Drilling platforms and sensor technologies deployed to collect solid earth data and material in support of solid earth research and management activities. This includes facilities that collect seismological data to be added to the European Integrated Data Archive (EIDA) and made available to the scientific community. Integrated Ocean Drilling Programme (IODP) and Integrated Continental Drilling Programme (ICDP); Sediment Coring Archives; VLBI stations.	
		14	Other		

4	Engineering & Energy			**1**	Aerospace and Aerodynamics Research Facilities	Single-sited facilities providing a controlled wind stream in which objects (aircrafts, vehicles, buildings) are placed in order to measure their aerodynamic properties, using for instance lasers and/or simulate an operation and control during flight/ drive; includes wind tunnels.	
				2	Civil Engineering Research Infrastructures	Single-sited, distributed or virtual facilities for the design, construction, testing (including the use of shaking tables) and maintenance of non-military, non-aerospace or non-mechanical large structures, typically including large buildings, transport infrastructures, bridges, dams, tunnels, sewers, plus river, coastal and public health engineering.	
				3	Electrical and Optical Engineering Facilities	Single- or multi-sited facilities that offer scientists and engineers access to devices for handling light, utilizing properties of light, and detecting light or access to infrastructure for research and development in the fields of electricity, electronics, and electromagnetism. These infrastructures may either broadly deal with electrical or electronic engineering, or be focused specifically on some of the numerous subtopics, like electronics, electric power, telecommunications, control systems, or other.	
				4	Energy Engineering Facilities (non-nuclear)	Combustion, solar, wind, production & distribution, includes, combustion test facilities and associated technologies.	
				5	Marine & Maritime Engineering Facilities	Experimental facilities in the fields of hydraulics, geophysical fluid dynamics, ship dynamics and ice engineering research. These include: Basins (both for marine research with waves and/or (tidal) currents and research on inland water issues); multi-directional wave basins; flumes (both for marine research and	

				for research on inland water issues); towing tanks for ship dynamics research; cavitation tunnels; rotation basins for research on Coriolis-dominated issues; facilities for ice research; other hydraulic facilities. The facilities are relevant for the scientific domains Engineering, Earth and Environmental Sciences, Marine and Polar Sciences	
		6	Mechanical Engineering Facilities	Facilities dedicated to manufacturing, assembly and testing of components and systems offering services related to control, integration and realization of products and processes including modelling and simulation tools. Processing technology, road-transport vehicle development and testing are included.	
		7	Other		
5	Humanities & Arts	1	Collections	Sets of often unique objects and items of different types collected usually to be exhibited. Collections normally include a collecting policy for new acquisitions, so only objects and items in certain categories and of a certain quality are accepted into the collection. Objects in a collection are normally catalogued, traditionally in a card index, but nowadays this is being replaced by computerized database also for physical collections. These type of RIs are particularly relevant for the humanities, which often deal with the study of unique artefacts, but they can be relevant for other domains, such as social sciences, life and environmental sciences. PHYSICAL: Museums, Galleries, Analogue audio/visual/multimedia collections, Archaeology, Anthropology and Ethnology Collections, Arts & Art History Collections, Music and Instrument Collections, Datasets (e.g. analogue audio/visual/multimedia datasets). DIGITAL: Archaeology,	

				Anthropology and Ethnology Collections, Arts & Art History Collections, Digitised Manuscript Collections, Music and Instrument Collections, Virtual museums, Virtual galleries, Datasets.	
		2	Repositories	Locations for storage of often unique objects and items of different nature, in general for preservation purposes. Repositories not only have the function to store objects and items but they also guarantee access for future retrieval and study. This type of RI in its general definition is relevant to all scientific domains (for instance as far as physical or virtual facility for the deposit of academic publications such as academic journal articles are concerned); however, some humanities disciplines strongly rely on specific repositories for its analysis. PHYSICAL: Analogue audio/visual/multimedia repositories, Archaeology, Anthropology and Ethnology Repositories, Arts & Art History Repositories. DIGITAL: Data repositories (e.g. digital library), Archaeology, Anthropology and Ethnology Repositories, Arts & Art History Repositories, Digitised Manuscript Repositories.	
		3	Databases	Structured sets of data for one or more purposes, usually in digital form. The term database applies to the data and their supporting data structures. The utilisation of databases is spread across all scientific disciplines. Databases are therefore RIs relevant to all scientific domains. Databases in the form of structured meta-data as well as analytical data organised usually within a relational model have been extensively developed as RIs in the Humanities with increasing uptake in all its disciplines: Archaeology, Anthropology and Ethnology Databases, Arts & Art History	

					Databases, History Databases, Digitised Manuscript Databases.	
			4	Conceptual Models	Explicit formalisations that map a concept to its intended semantics. Conceptual models are adopted in every research domain (e.g. economic models, mathematical models). In the humanities, however, some conceptual models have developed into RIs indispensable to structure a certain knowledge domain, such as is the case for thesauri and taxonomies (also very much used in life sciences) which have a long tradition in supporting analytical efforts especially in linguistics. Increasingly, digital models built around conceptual ontologies and networks are being developed for modelling specific research domain or for cross-referencing purposes in the Humanities.	
			5	Research Archives	Accounting normally for organised sets of unpublished and almost always unique historical records, or the physical place they are located, archives contain primary source documents (texts, maps, pictures etc.) in physical but also increasingly digital form (e.g. text archives structured in databases) that have accumulated over the course of an individual or organisation's lifetime. In general, archives consist of records that have been selected for permanent or long-term preservation on grounds of their enduring cultural, historical, or evidentiary value. Archives are thus particularly relevant to the Humanities, chiefly to historians but also to many other Humanities researchers dealing with primary sources of various kinds. A scientific discipline called archival science, dedicated to the study and practice of organising, preserving, and providing access to information and materials in archives, has established itself within the	

					Humanities: History Archives, Literature and Text Archives.	
		6		Research Libraries	Traditionally, large collections of books, or the place in which the collection is housed. However, the term library has extended its meaning to refer to any collection, including digital sources, resources, and services. The collections can be of print, audio, and visual materials in numerous formats, including maps, prints, documents, microform (microfilm/microfiche), CDs, cassettes, videotapes, DVDs, video games, e-books, audiobooks and many other electronic resources. A research library is a collection of useful material for research use. A library is organised for use and maintained by a public body, an institution, a corporation, or a private individual. In addition to providing materials, libraries also provide the services of librarians who are experts at finding and organising information and at interpreting information needs. Modern libraries are increasingly being redefined as places to get unrestricted access to information in many formats and from many sources. They are extending services beyond the physical walls of a building, by providing material accessible by electronic means, and by providing the assistance of librarians in navigating and analysing tremendous amounts of information with a variety of digital tools. Libraries are valuable to all scientific domains; however, they are of specific relevance to Humanities research which relies on access to historical and rare collections of unique artefacts (e.g. primary sources such as ancient manuscripts) and other sources to study those artefacts and works (secondary and tertiary sources) usually held within libraries and	

				otherwise hardly accessible. A scientific discipline called library and information science, an interdisciplinary or multidisciplinary field dedicated to the analysis, collection, organisation, classification, manipulation, preservation, retrieval and dissemination of information resources, has established itself at the crossroads between social sciences, humanities and computer sciences. Historically, library science has also included archival science.	
		7	Research Bibliographies	Large-scale systematic lists of books and other works such as journal articles, reference and access resources. They can be physical publications (i.e. bound volumes) or digital (indexes and catalogues usually in the form of databases). They can be generally divided into enumerative bibliography, which results in an overview of publications in a particular category, and analytical, or critical, bibliography, which studies the production of research material (in the form of books as well as other formats, including recordings, motion pictures, videos, graphic objects, databases, CD-ROMs and websites). As a bibliography can be produced in any field, it could be considered a transversal category; however it is Humanities research especially that has traditionally relied on such tools to systematise its fields of enquiry – spanning centuries of relevant publications for many humanities disciplines – and circumscribe its research domain.	
		8	Other		
6	Information Science & Technology	**1**	Centralised Computing Facilities	Single-sited facilities with a centralised control that enable high performance computing through supercomputers. These are relevant to all scientific domains.	

				2	Communication Networks	Facilities responsible, at national or international levels, for the provision of data communications networks, capacity and services to the research and education community in all scientific domains. The networks typically connect other networks at international, regional or metropolitan level.	
				3	Complex Data Facilities	Facilities to store huge and high dimensional data volumes and apply statistical methods to classify or cluster the data in order to extract valuable information. The facilities are relevant to Bio-Medical Sciences; Earth and Environmental Sciences; Physics; Astrophysics; Social Sciences.	
				4	Distributed Computing Facilities	Facilities for virtualisation, grid and cloud computing, or capability computing that are loosely coupled, heterogeneous, and geographically dispersed distributed system with non-interactive workloads that involve a large number of files. They federate, share and coordinate distributed resources from different organisations that are not subject to centralized control, using open, general-purpose and in some cases standard protocols and interfaces to deliver non-trivial qualities of service relevant to all scientific domains.	
				5	Software Service Facilities	Facilities that provide access to well fabricated software for modelling, simulation, development, control and optimization, including software libraries/ repositories or support services for the implementation of the software, their maintenance and adaptation to new hardware platforms as well consultation regarding proper use of the software as well as training facilities for users. These are relevant to all scientific domains.	
				6	Other		

7	Physics, Astronomy, Astrophysics and Mathematics		**1**	Astro-Particle and Neutrino Detectors and Observatories	Range of detectors/observatories, using interactions in water or ice for detecting astrophysical neutrinos, interactions in liquid noble gases or solids for searching for dark matter particles, and light emission in the atmosphere for the detection of gamma rays from astrophysical sources.	
			2	Centres for Advanced Research in Mathematics	Research Centres hosting researchers and organizing scientific events at a high level. Three different types of centres can be distinguished according to their aim: a) centres organizing high level one week conferences in mathematics or their interface with sciences and industry; b) centres organizing, over three or more months, targeted advanced scientific programmes at doctoral level or on specific research challenges; c) high-level research institutes with few permanent positions and a highly developed visitor's programme. (High level mathematics, interface between mathematics and other sciences).	
			3	Centres for Development of Industrial Mathematics	Centres devoted to the development of the interface between mathematics and industry. Their research groups offer a wide range of mathematical expertise and are able to interact with scientists from other disciplines (life sciences, bio-medicine, material sciences, engineering, computer sciences, physics, social sciences, etc.) both in the academic or industrial frameworks. (Industrial mathematics, applied mathematics).	
			4	Cross-Disciplinary Centres in Mathematics	Specialised structures devoted to the interaction of mathematics with other sciences (e.g. biology, genomics, chemistry, computer sciences …). These structures strive at developing new areas of research where mathematics is known to play a founding role as it did in the development of physics. (Cross-	

					disciplinary centres; mathematical sciences; interaction of mathematics).	
			5	Extreme Conditions Facilities	All facilities where materials are studied under extreme physical conditions as in High Magnetic Field Laboratories, High Pressure Laboratories, Low Temperature Laboratories, High Radiation Facilities, and Microgravity platforms.	
			6	Gravitational Wave Detectors and Observatories	Instruments using laser interferometry between freely hung test masses up to several km apart in vacuum. The lengths of two perpendicular arms, defined by the test masses, are compared and fluctuations in the arm length differences are recorded and analysed for potential GW signals. Links to earth observation.	
			7	High Energy Physics Facilities	High Energy Physics Facilities include accelerators, colliders, targets, light sources and detectors of high energy particles through electrostatic or oscillating fields accelerating particles to speeds sufficient to cause nuclear and particle reactions.	
			8	Mathematics Centres of Competence	Mathematics centres of competence develop mathematical models for applications in all sciences and engineering, including social sciences, and medicine. They analyse the models, develop and implement algorithms for the simulation of the models as well as for the optimization and control of the involved processes. They provide transversal competences which allow transferring concepts and methods from one specific science to another and they also provide consulting concerning the use of methods and their implementation for specific applications. When needed, they generate the basic mathematical theory that is needed to perform the described tasks. (Mathematical	

						modelling; numerical and statistical simulation; control theory; optimization; mathematical algorithm repository).	
				9	Micro and Nanotechnology Facilities	Micro and nanotechnology facilities deals with the understanding and control of matter at the nanoscale and microscales, at dimensions between approximately 1 and 1000 nanometres, involving imaging, measuring, modelling, and manipulating matter at this length scale.	
				10	Nuclear Research Facilities	Nuclear Physics facilities include accelerators, colliders, targets and detectors to study the atomic nucleus, the nuclear matter including its fusion and fission. The facilities can be classified according to their objects of study (hadrons, nuclei, applications), the probes that are used to investigate them (lepton/ photon or hadron/heavy ion beams), or simply by the size of the facility and the type of reactions involved in the various nuclear processes.	
				11	Safety Handling Facilities	Facilities that are required to handle materials that potentially cause biosafety, chemical, radioactive, explosive, or engineering hazards. Also clean rooms and Actinide Handling Facilities would be included. Includes Biosecurity Level-4 Laboratories.	
				12	Space Environment Test Facilities	Includes planetary/space environment simulation chambers and space environment exposure facilities as well as space plasma physics facilities	
				13	Telescopes	Includes ground-based telescopes with (1) optical and/or near infrared telescopes, interferometers or (2) reflector telescopes with mirrors of different diameters, operating at radio frequencies, or infrared and/or optical wavelengths and (3) Space-borne telescopes orbiting the earth including a wide range of	

					wavelengths, from gamma-rays to the radio.	
			14	Underground Laboratories	Underground spaces providing experimental areas of reduced cosmic ray background, reduced seismic noise etc. for a range of experiments in physics and particle astrophysics. Open to members of collaborations involved in installing and running experiments. These facilities also have relevance to ICT and Material Sciences, Environment, Biological and Medical Sciences, Physics.	
			15	Astrophysics		Reject
			16	Astronomy		Reject
			17	Space Physics		Reject
			18	Data Facilities	Data Centre for reference astronomy data	Reject
			19	Other		
8	Social Sciences		**1**	Data Archives, Data Repositories and Collections	A digital data archive is a centre of expertise in data acquisition, preservation, management, dissemination and promotion of an access to the national and international collections and repositories of digital data. These type of RIs are particularly acute to the social sciences, which often rely on the aggregation of longitudinal data, and to the humanities, which often rely on preservation, but they can be relevant for other domains, particularly, the life and environmental sciences and the medical sciences.	
			2	Data mining and Analysis (Methodological) Centres, including statistical analysis	Centres of expertise or methodological resources for extracting patterns from large data sets by combining methods from statistics and artificial intelligence. These RIs enable researchers to overcome the challenge of working with increasingly larger data-sets. Data-mining and statistical techniques populate every scientific	

				domain but what counts as data is domain specific. Therefore, this category should be understood as specific to social sciences because it refers to data in the social sciences.	
		3	National Statistical Facilities (offices)	Centres of expertise responsible for the collection and publication of statistics related to the economy, population and society at international, national and regional levels. These infrastructures have been traditionally created by the states but constitute as well powerful resources for the social scientists in particular.	
		4	Registers and Survey-led Studies/Databases	Organized and systematic collection of data (time or spatial series) for one or more purposes (research, evidence-based policy, non-governmental organisations) in digital form or not. These type of RIs are particularly acute to the social sciences, which often rely on the aggregation of masses of longitudinal data but they can be relevant for all the other domains, that is, the humanities, the life and environmental sciences, the physical sciences and engineering, and the medical sciences.	
		5	Research Data Service Facilities	Facilities for clustering research data and making it permanently accessible, as well as facilities for the provision of all sorts of data services. These often include meta-infrastructures. These types of RIs are particularly relevant to Humanities and Arts; Social Sciences, Medical sciences.	
		6	Other		
9	Other	**1**	Other		

Provider Area of Activity

No.	Provider Area of Activity	Changes v3.00 to v4.00
1	Basic research	

2	Applied research	
3	Technological development	
4	Any aspect of science and technology	Reject
5	Other	

Provider Societal Grand Challenges

No.	Provider Societal Grand Challenges	Changes v3.00 to v4.00
1	Health, demographic change and wellbeing	
2	Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the Bioeconomy	
3	Secure, clean and efficient energy	
4	Smart, green and integrated transport	
5	Climate action, environment, resource efficiency and raw materials	
6	Europe in a changing world – inclusive, innovative and reflective societies	
7	Secure societies – protecting freedom and security of Europe and its citizens	
8	Computational Infrastructure	Reject
9	Other	

Resource Profile Code Lists, Taxonomies, Classifications

Resource Scientific Domain/Subdomain

From the Revised Field of Science and Technology (FOS) Classification in the Frascati Manual by the Working Party of National Experts on Science and Technology Indicators (2007), OECD.

No.	Scientific Domain	Description	No.	Scientific Subdomain	Changes v3.00 to v4.00
1	Natural Sciences	Any of the sciences (such as physics, chemistry, or biology) that deal with matter, energy, and their interrelations and transformations or with objectively measurable phenomena.	1	Mathematics	
			2	Computer and information sciences	
			3	Physical sciences	
			4	Chemical sciences	
			5	Earth and related environmental sciences	
			6	Biological sciences	
			7	Other natural sciences	
2	Engineering & Technology	The application of science and mathematics by which the properties of matter and the sources of energy in nature are made useful to people	1	Civil engineering	
			2	Electrical, electronic and information engineering	
			3	Mechanical engineering	
			4	Chemical engineering	
			5	Materials engineering	
			6	Medical engineering	
			7	Environmental engineering	
			8	Environmental biotechnology	
			9	Industrial biotechnology	
			10	Nano-technology	
			11	Computer Science	Rejected

			12	Other engineering and technology sciences	
3	Medical & Health Sciences	The science of dealing with the maintenance of health and the prevention and treatment of disease	1	Basic medicine	
			2	Clinical medicine	
			3	Health sciences	
			4	Medical biotechnology	
			5	Other medical sciences	
4	Agricultural Sciences	Sciences dealing with food and fibre production and processing. They include the technologies of soil cultivation, crop cultivation and harvesting, animal production, and the processing of plant and animal products for human consumption and use.	1	Agriculture, forestry, and fisheries	
			2	Animal and dairy sciences	
			3	Veterinary sciences	
			4	Agricultural biotechnology	
			5	Other agricultural sciences	
5	Social Sciences	A branch of science that deals with the institutions and functioning of human society and with the interpersonal relationships of individuals as members of society	1	Psychology	
			2	Economics and business	
			3	Educational sciences	
			4	Sociology	
			5	Law	
			6	Political sciences	
			7	Social and economic geography	
			8	Media and communications	
			9	Other social sciences	
6	Humanities	The branches of learning that investigate human constructs and concerns as opposed to natural processes (as in physics or chemistry) and social relations (as in anthropology or economics).	1	History and archaeology	
			2	Languages and literature	
			3	Philosophy, ethics and religion	

			4	Arts	
			5	Other humanities	
7	Generic	Generic, Not targeting a specific domain.	1	Generic	
			2	Scientific Research	Rejected
8	Other		1	Other	

Resource Category, Subcategory (and Supercategory)

Supercategories are defined to facilitate the User Interfaces and Menus with a small number of clasess.

No.	Category	Description	No.	Subcategory	No.	Supercategory	Changes v3.00 to v4.00
1	Instrument & Equipment	Access to instruments and equipment	**1**	Spectrometer	**1**	Access physical & e-Infrastructures	
			2	Radiation			
			3	Microscopy			
			4	Laser			
			5	Geophysical			
			6	Chromatographer			
			7	Cytometer			
			8	Spectrophotometer			
			10	Digitisation equipment			
			11	Monument maintenance equipment			
			12	Other			
2	Material Storage	Access to biological, chemical, historical, archeological, cultural, etc. storage. Includes the acquisition, preparation and processing of samples and materials in view of their preservation.	**1**	Warehousing			
			2	Fulfilment			
			3	Assembly			
			4	Sorting			
			5	Re-working			
			6	Packaging			
			7	Quality inspecting			
			8	Archiving			
			9	Disposal			

			10	Repository			
			11	Preservation			
			12	Other			
3	Network	Ultra-fast connectivity and access to eInfrastructures' Resources	**1**	Direct Connect			
			2	Virtual Network			
			3	Load Balancer			
			4	VPN Gateway			
			5	Exchange			
			6	Content Delivery Network			
			7	Traffic Manager			
			8	DNS			Rejected
			9	Other			
4	Compute	High-performance computing Resources and scalable cloud compute capacity for demanding job processes	**1**	Virtual Machine Management			
			2	Container Management			
			3	Job Execution			
			4	Workload Management			
			5	Orchestration			
			6	Serverless Applications Repository			
			7	Other			
5	Data Storage	Reliable, secure and scalable cloud storage for scientific data, apps and workloads	**1**	Data			
			2	File			
			3	Queue			
			4	Disk			
			5	Online			
			6	Archive			
			7	Backup			
			8	Synchronised			
			9	Replicated			

			10	Recovery			
			11	Digital preservation			
			12	Other			
6	Data	Vast range of data, datasets etc to facilitate research and scientific activities	1	Government and agency data			
			2	Statistical data			
			3	Scientific/Research data			
			4	Metadata			Rejected
			5	Online service data			
			6	Clinical trial data			
			7	Epidemiological data			
			8	Data archives			
			9	Other			
7	Scholarly Communication	Research findings available to the wider academic community and beyond	1	Preparation			
			2	Discovery			
			3	Analysis			
			4	Writing	2	Sharing & Discovery	
			5	Publication			
			6	Outreach			
			7	Assessment			
			8	Other			
8	Software	Software, platforms and tools offered-as-a-service or deployed-on-demand	1	Software Repository			
			2	Platform			
			3	Software Package			
			4	Libraries			
			5	Other			
9	Application	End-user applications (apps) offered-as-a-service or deployed-on-demand	1	Communication			
			2	Collaboration			
			3	Productivity			
			4	Business			
			5	Education			

			6	Social/Networking				
			7	Utilities				
			8	Applications Repository				
			9	Other				
10	Development Resource	Developer tools, development kits, libraries, APIs	1	Developer Tools				
			2	Software Development Kits				
			3	Software Libraries				
			4	APIs Repository/Gateway				
			5	Other				
11	Samples	Collection, preparation and delivery of biological, chemical, environmental or other samples.	1	Biological samples				
			2	Chemical compounds library				
			3	Preparation				
			4	Characterisation				
			5	Other				
12	Data Management	Robust, feature-rich and user-friendly data management services	1	Mining	3	Processing & Analysis	
			2	Access				
			3	Transfer				
			4	Registration				
			5	Persistent Identifier				
			6	Interlinking				
			7	Publishing				
			8	Discovery				
			9	Anonymisation				
			10	Preservation				
			11	Brokering				
			12	Annotation				
			13	Validation				
			14	Maintenance				
			15	Embargo				
			16	Digitisation				

			17	Other				
13	Data Analysis	Processes for data with the goal of discovering useful information, informing conclusions, and supporting decision-making	1	Machine Learning				
			2	Artificial Intelligence				
			3	Forecast				
			4	Visualization				
			5	Data extrapolation				
			6	Image/data analysis				
			7	Workfows				
			8	2D/3D Digitisation				
			9	Other				
14	Measurement & Materials Analysis	Processess and techiques for material analysis, characterisation and monitoring	1	Analysis				
			2	Maintenance and Modification				
			3	Production				
			4	Testing and Validation				
			6	Characterisation				
			7	Validation				
			8	Workflows				
			9	Other				
15	Security & Identity	Protect [your] infrastructure and manage user identities and access against advanced threats across devices, data, apps, etc	1	User authentication	4	Security & Operations		
			2	Identity and access management				
			3	Threat protection				
			4	Coordination				
			5	Tools				
			6	Certification authority				
			7	Single Sign-On				
			8	Firewall				
			9	Group Management				
			10	Other				
16			1	Accounting				

	Operations & Infrastructure Management Services	Services for monitoring, scaling, creating, tracking and automating operations on [your] infrastructures and services.		2	Helpdesk			
				3	Monitoring			
				4	Analysis			
				5	Configuration			
				6	Utilities			
				7	Coordination			
				8	Billing			
				9	Order Management			
				10	Transportation			
				11	Quality Assessment			Rejected
				12	Other			
17	Education & Training	Highly-specialized seminars and courses to help advance research knowledge and sharpen scientific skills		1	Online Courses			
				2	Open Registration Courses			
				3	In-house Courses			
				4	Training Tool			
				5	Training Platform			
				6	Related Training			
				7	Required Training			
				8	Other			
18	Consultancy & Support	Dedicated support, expertise, consultancy for a wide range of scientific disciplines and research activities		1	Consulting			
				2	Audit and Assessment	5	Training & Support	
				3	Application Porting			
				4	Application Scaling			
				5	Application Optimisation			
				6	Software Development			
				7	Software Improvement			
				8	Modeling and Simulation			
				9	Prototype Development			

No.	Category	Description	No.	Subtype	No.		Changes
			10	Testing			
			11	Certification			
			12	Calibration			
			13	Benchmarking			
			14	Technology Transfer			
			15	Methodology Development			
			16	Other			
19	Aggregators & Integrators	Thematic, Regional and other Aggregators & Integrators	1	Services	6	Aggregators & Integrators	
			2	Data			
			3	Applications			
			4	Software			
			5	Other			
20	Other		1	Other	7	Other	

Resource Target Users

No.	Target Users	Description	Changes v3.00 to v4.00
1	Researchers	Someone who conducts scientific research, i.e., an organized and systematic investigation by using scientific methods.	
2	Research groups	A research group is a group of researchers working together on a particular issue or topic. Research groups may be composed of researchers all from the same subject/discipline or from different subjects/disciplines.	
3	Research communities	Research communities provide an infrastructure through which scientists of discipline-specific scientific areas are able to advance their research goals, reaching out to other researchers.	
4	Research projects	A privately or publicly funded project on a research topic.	
5	Research networks	Research networks aim to stimulate interaction between researchers and promote information exchange.	
6	Research managers	Someone in an organization whose job is to manage a research initiative aiming to the development of new scientific results, products or ideas.	
7	Research organisations	A public or private legal entity (e.g. academia, business, industry, public services, etc.) representing the User.	

8	Students	A person who is studying at a university or other place of higher education.	
8	Innovators	The group or individual which is the first to try new ideas, processes, goods and services. Innovators are followed by early adopters, early majority, late majority, and laggards, in that order.	
9	Businesses	An organization or economic system where goods and services are exchanged for one another or for money. Businesses can be privately owned, not-for-profit or state-owned.	
10	Providers	A Provider is an organisation that provides different kind of solutions and/or services or other Resources to end users and other organizations. This broad term incorporates all businesses and organisations that provide products and solutions that are offered for free, on-demand, pay per use or a hybrid delivery model.	
11	Funders	Individual or organization financing a part or all of a project's cost as a grant, investment, or loan.	
12	Policy Makers	Individuals (usually members of the board of directors) who have the authority to set the policy framework of an organization.	
13	Research Infrastructure Managers	A RI Manager is a type of Project Coordinator who specializes in research infrastructures. They are responsible for things like managing researchers, making sure costs are on budget and serving as a liaison between reserach staff and project stakeholders.	
14	Provider Managers	A Provider Manager is an individual within an organisation that is responsible for the quality of the Resources provided and monitors the delivery of the Resource.	
15	Resource Managers	Resource Managers are typically responsible for managing Service level agreements with customers and external Providers.	
16	Publishers		Pending
17	Other		

Resource Access Type

No.	Access Type	Description	Changes v3.00 to v4.00
1	Physical	Resources require a physical presence of the user. The user can only access the RI if he is physically present in the specific location that the RI is offered.	

2	Remote	Resources are delivered remotely with the use of a physical infrastructure. The user is able to remotely work with the physical RI without the need of physical presence.	
3	Virtual	The Resource is delivered through a virtual infrastructure that the use may access virtually through the web or an intranet.	
4	Mail-in	Samples are sent in to for e.g. analysis and the results are returned to the user without the user actually accessing the RI	
5	Web Portal		Reject
6	Other		

Resource Access Mode

No.	Access Mode	Description	Changes v3.00 to v4.00
1	Free	Users can freely access the Resource provided, registration may be needed.	
2	Free conditionally	Users are granted access based on defined policies; such policies usually apply to Resources being offered with "sponsored use" to meet some national or EU level objective; for instance, a country may offer Resources with "sponsored use" to support national researchers involved in international collaborations.	
3	Peer-reviewed	Users are selected based on scientific excellence evaluation, originality, quality and technical and ethical feasibility of an application evaluated through peer review conducted by internal or external experts of the activity to be supported by the Resource	
4	Paid	Users need to pay a fee to access the Resource	
5	Other		

Resource Geographical Availability

Values for this Attribute are all countries in the EOSC Resource Profile v3.00#Resource Geographic Location and the following area aggregates.

No.	Country	Definition	Changes v3.00 to v4.00
1	Worldwide (WW)	All counries	
2	Europe (EO)	All European Countries	
3	European Union (EU)	All countries of the European Union	
4	Euro Zone (EZ)	All countries of the Eurozone	
5	Schengen Area (AH)	All Schengen Area countries	
...	+ all countries in the EOSC Resource Profile v3.00#Resource Geographic Location		

Resource Language Availability

From ISO 639-1:2002 standard - Codes for the representation of names of languages.

No.	Language	Changes v3.00 to v4.00
1	Abkhazian (ab)	
2	Afar (aa)	
3	Afrikaans (af)	
4	Akan (ak)	
5	Albanian (sq)	
6	Amharic (am)	
7	Arabic (ar)	
8	Aragonese (an)	
9	Armenian (hy)	
10	Assamese (as)	
11	Avaric (av)	
12	Avestan (ae)	
13	Aymara (ay)	
14	Azerbaijani (az)	
15	Bambara (bm)	
16	Bashkir (ba)	
17	Basque (eu)	
18	Belarusian (be)	
19	Bengali (bn)	
20	Bihari (bh)	
21	Bislama (bi)	
22	Bosnian (bs)	
23	Breton (br)	
24	Bulgarian (bg)	
25	Burmese (my)	
26	Catalan (ca)	
27	Chamorro (ch)	
28	Chechen (ce)	
29	Chichewa (ny)	
30	Chinese (zh)	

31	Chuvash (cv)	
32	Cornish (kw)	
33	Corsican (co)	
34	Cree (cr)	
35	Croatian (hr)	
36	Czech (cs)	
37	Danish (da)	
38	Divehi (dv)	
39	Dutch (nl)	
40	Dzongkha (dx)	
41	English (en)	
42	Esperanto (eo)	
43	Estonian (et)	
44	Ewe (ee)	
45	Faroese (fo)	
46	Fijian (fj)	
47	Finnish (fi)	
48	French (fr)	
49	Fula (ff)	
50	Gaelic (gl)	
51	Galician (gd)	
52	Georgian (ka)	
53	German (de)	
54	Greek (el)	
55	Guarani (gn)	
56	Gujarati (gu)	
57	Haitian (ht)	
58	Hausa (ha)	
59	Hebrew (he)	
60	Herero (hz)	
61	Hindi (hi)	
62	Hiri Motu (ho)	

63	Hungarian (hu)	
64	Icelandic (is)	
65	Ido (io)	
66	Igbo (ig)	
67	Indonesian (id)	
68	Interlingua (ia)	
69	Interlingue (ie)	
70	Inuktitut (iu)	
71	Inupiak (ik)	
72	Irish (ga)	
73	Italian (it)	
74	Japanese (ja)	
75	Javanese (jv)	
76	Kalaallisut (kl)	
77	Kannada (kn)	
78	Kanuri (kr)	
79	Kashmiri (ks)	
80	Kazakh (kk)	
81	Khmer (km)	
82	Kikuyu (ki)	
83	Kinyarwanda (rw)	
84	Kirundi (rn)	
85	Komi (kv)	
86	Kongo (kg)	
87	Korean (ko)	
88	Kurdish (ku)	
89	Kwanyama (kj)	
90	Kyrgyz (ky)	
91	Lao (lo)	
92	Latin (la)	
93	Latvian (lv)	
94	Limburgish (li)	

95	Lingala (ln)	
96	Lithuanian (lt)	
97	Luba-Katanga (lu)	
98	Luxembourgish (lb)	
99	Macedonian (mk)	
100	Malagasy (mg)	
101	Malay (ms)	
102	Malayalam (ml)	
103	Maltese (mt)	
104	Manx (gv)	
105	Maori (mi)	
106	Marathi (mr)	
107	Marshallese (mh)	
108	Mongolian (mn)	
109	Nauru (na)	
110	Navajo (nv)	
111	Ndonga (ng)	
112	Nepali (ne)	
113	Northern Ndebele (nd)	
114	Norwegian (no)	
115	Norwegian bokmål (nb)	
116	Norwegian nynorsk (nn)	
117	Nuosu (ii)	
118	Occitan (oc)	
119	Ojibwe (oj)	
120	Old Church Slavonic (cu)	
121	Oriya (or)	
122	Oromo (om)	
123	Ossetian (os)	
124	Pāli (pi)	
125	Pashto (ps)	
126	Persian (fa)	

127	Polish (pl)	
128	Portuguese (pt)	
129	Panjabi (pa)	
130	Quechua (qu)	
131	Romanian (ro)	
132	Romansh (rm)	
133	Russian (ru)	
134	Sami (se)	
135	Samoan (sm)	
136	Sango (sg)	
137	Sanskrit (sa)	
138	Sardinian (sc)	
139	Serbian (sr)	
140	Sesotho (st)	
141	Setswana (tn)	
142	Shona (sn)	
143	Sindhi (sd)	
144	Sinhalese (si)	
145	Slovak (sk)	
146	Slovenian (sl)	
147	Somali (so)	
148	Southern Ndebele (nr)	
149	Spanish (es)	
150	Sundanese (su)	
151	Swahili (sw)	
152	Swati (ss)	
153	Swedish (sv)	
154	Tagalog (tl)	
155	Tahitian (ty)	
156	Tajik (tg)	
157	Tamil (ta)	
158	Tatar (tt)	

No.	Language	Changes v3.00 to v4.00
159	Telugu (te)	
160	Thai (th)	
161	Tibetan (bo)	
162	Tigrinya (ti)	
163	Tonga (to)	
164	Tsonga (ts)	
165	Turkish (tr)	
166	Turkmen (tk)	
167	Twi (tw)	
168	Ukrainian (uk)	
169	Urdu (ur)	
170	Uyghur (ug)	
171	Uzbek (uz)	
172	Venda (ve)	
173	Vietnamese (vi)	
174	Volapük (vo)	
175	Wallon (wa)	
176	Welsh (cy)	
177	Western Frisian (fy)	
178	Wolof (wo)	
179	Xhosa (xh)	
180	Yiddish (yi)	
181	Yoruba (yo)	
182	Zhuang (za)	
183	Zulu (zu)	
184	Other	

Resource Geographic Location

From ISO 3166 standard – Codes for the representation of names of countries and their subdivisions, except for Greece and the United Kingdom (use EL and UK respectively instead of GR and GB) from Eurostat code lists.

No.	Country	Changes v3.00 to v4.00
1	Afghanistan (AF)	
2	Åland Islands (AX)	

3	Albania (AL)	
4	Algeria (DZ	
5	American Samoa (AS)	
6	Andorra (AD)	
7	Angola (AO)	
8	Anguilla (AI)	
9	Antarctica (AQ)	
10	Antigua and Barbuda (AG)	
11	Argentina (AR)	
12	Armenia (AM)	
13	Aruba (AW)	
14	Australia (AU)	
15	Austria (AT)	
16	Azerbaijan (AZ)	
17	Bahamas (BS)	
18	Bahrain (BH)	
19	Bangladesh (BD)	
20	Barbados (BB)	
21	Belarus (BY)	
22	Belgium (BE)	
23	Belize (BZ)	
24	Benin (BJ)	
25	Bermuda (BM)	
26	Bhutan (BT)	
27	Bolivia (BO)	
28	Bonaire, Sint Eustatius and Saba (BQ)	
29	Bosnia and Herzegovina (BA)	
30	Botswana (BW)	
31	Bouvet Island BV)	
32	Brazil (BR)	
33	British Indian Ocean Territory (IO)	
34	Brunei Darussalam (BN)	

35	Bulgaria (BG)	
36	Burkina Faso (BF)	
37	Burundi (BI)	
38	Cabo Verde (CV)	
39	Cambodia (KH)	
40	Cameroon (CM)	
41	Canada (CA)	
42	Cayman Islands (KY)	
43	Central African Republic (CF)	
44	Chad (TD)	
45	Chile (CL)	
46	China (CN)	
47	Christmas Island (CX)	
48	Cocos (Keeling) Islands (CC)	
49	Colombia (CO)	
50	Comoros (KM)	
51	Congo (Democratic Republic) (CD)	
52	Congo (CG)	
53	Cook Islands (CK)	
54	Costa Rica (CR)	
55	Côte d'Ivoire (CI)	
56	Croatia (HR)	
57	Cuba (CU)	
58	Curaçao (CW)	
59	Cyprus (CY)	
60	Czechia (CZ)	
61	Denmark (DK)	
62	Djibouti (DJ)	
63	Dominica (DM)	
64	Dominican Republic (DO)	
65	Ecuador (EC)	
66	Egypt (EG)	

67	El Salvador (SV)	
68	Equatorial Guinea (GQ)	
69	Eritrea (ER)	
70	Estonia (EE)	
71	Eswatini (SZ)	
72	Ethiopia (ET)	
73	Falkland Islands (FK)	
74	Faroe Islands (FO)	
75	Fiji (FJ)	
76	Finland (FI)	
77	France (FR)	
78	French Guiana (GF)	
79	French Polynesia (PF)	
80	French Southern Territories (TF)	
81	Gabon (GA)	
82	Gambia (GM)	
83	Georgia (GE)	
84	Germany (DE)	
85	Ghana (GH)	
86	Gibraltar (GI)	
87	Greece (EL)	
88	Greenland (GL)	
89	Grenada (GD)	
90	Guadeloupe (GP)	
91	Guam (GU)	
92	Guatemala (GT)	
93	Guernsey (GC)	
94	Guinea (GN)	
95	Guinea-Bissau (GW)	
96	Guyana (GY)	
97	Haiti (HT)	
98	Heard Island and McDonald Islands (HM)	

99	Holy See (VA)	
100	Honduras (HN)	
101	Hong Kong HK)	
102	Hungary (HU)	
103	Iceland (IS)	
104	India (IN)	
105	Indonesia (ID)	
106	Iran (IR)	
107	Iraq (IQ)	
108	Ireland (IE)	
109	Isle of Man (IM)	
110	Israel (IL)	
111	Italy (IT)	
112	Jamaica (JM)	
113	Japan (JP)	
114	Jersey (JE)	
115	Jordan (JO)	
116	Kazakhstan (KZ)	
117	Kenya (KE)	
118	Kiribati (KI)	
119	Korea (Democratic People's Republic) (KP)	
120	Korea (Republic) (KR)	
121	Kuwait (KW)	
122	Kyrgyzstan (KG)	
123	Lao People's Democratic Republic (LA)	
124	Latvia (LV)	
125	Lebanon (LB)	
126	Lesotho (LS)	
127	Liberia (LR)	
128	Libya (LY)	
129	Liechtenstein (LI)	
130	Lithuania (LT)	

131	Luxembourg (LU)	
132	Macao (MO)	
133	Madagascar (MG)	
134	Malawi (MW)	
135	Malaysia (MY)	
136	Maldives (MV)	
137	Mali (ML)	
138	Malta (MT)	
139	Marshall Islands (MH)	
140	Martinique (MQ)	
141	Mauritania (MR)	
142	Mauritius (MU)	
143	Mayotte (YT)	
144	Mexico (MX)	
145	Micronesia (FM)	
146	Moldova (MD)	
147	Monaco (MC)	
148	Mongolia (MN)	
149	Montenegro (ME)	
150	Montserrat (MS)	
151	Morocco (MA)	
152	Mozambique (MZ)	
153	Myanmar (MM)	
154	Namibia (NA)	
155	Nauru (NR)	
156	Nepal (NP)	
157	Netherlands (NL)	
158	New Caledonia (NC)	
159	New Zealand (NZ)	
160	Nicaragua (NI)	
161	Niger (NE)	
162	Nigeria (NG)	

163	Niue (NU)	
164	Norfolk Island (NF)	
165	North Macedonia MK)	
166	Northern Mariana Islands (MP)	
167	Norway (NO)	
168	Oman (OM)	
169	Pakistan (PK)	
170	Palau (PW)	
171	Palestine, State of (PS)	
172	Panama (PA)	
173	Papua New Guinea (PG)	
174	Paraguay (PY)	
175	Peru (PE)	
176	Philippines (PH)	
177	Pitcairn (PN)	
178	Poland (PL)	
179	Portugal (PT)	
180	Puerto Rico (PR)	
181	Qatar (QA)	
182	Réunion (RE)	
183	Romania (RO)	
184	Russian Federation (RU)	
185	Rwanda (RW)	
186	Saint Barthélemy (BL)	
187	Saint Helena, Ascension and Tristan da Cunha (SH)	
188	Saint Kitts and Nevis (KN)	
189	Saint Lucia (LC)	
190	Saint Martin (MF)	
191	Saint Pierre and Miquelon (PM)	
192	Saint Vincent and the Grenadines (VC)	
193	Samoa (WS)	
194	San Marino (SM)	

195	São Tomé and Príncipe (ST)	
196	Saudi Arabia (SA)	
197	Senegal (SN)	
198	Serbia (RS)	
199	Seychelles (SC)	
200	Sierra Leone (SL)	
201	Singapore (SG)	
202	Sint Maarten (SX)	
203	Slovakia (SK)	
204	Slovenia (SI)	
205	Solomon Islands (SB)	
206	Somalia (SO)	
207	South Africa (ZA)	
208	South Georgia and the South Sandwich Islands (GS)	
209	South Sudan (SS)	
210	Spain (ES)	
211	Sri Lanka (LK)	
212	Sudan (SD)	
213	Suriname (SR)	
214	Svalbard and Jan Mayen (SJ)	
215	Sweden (SE)	
216	Switzerland (CH)	
217	Syrian Arab Republic (SY)	
218	Taiwan (Province of China) (TW)	
219	Tajikistan (TJ)	
220	Tanzania (TZ)	
221	Thailand (TH)	
222	Timor-Leste (TL)	
223	Togo (TG)	
224	Tokelau (TK)	
225	Tonga (YO)	
226	Trinidad and Tobago (TT)	

227	Tunisia (TN)	
228	Turkey (TR)	
229	Turkmenistan (TM)	
230	Turks and Caicos Islands (TC)	
231	Tuvalu (TV)	
232	Uganda (UG)	
233	Ukraine (UA)	
234	United Arab Emirates (AE)	
235	United Kingdom of Great Britain and Northern Ireland (UK)	
236	United States Minor Outlying Islands (UM)	
237	United States of America (US)	
238	Uruguay (UY)	
239	Uzbekistan (UZ)	
240	Vanuatu (VU)	
241	Venezuela (VE)	
242	Viet Nam (VN)	
243	Virgin Islands (British) (VG)	
244	Virgin Islands (U.S.) (VI)	
245	Wallis and Futuna (WF)	
246	Western Sahara (EH)	
247	Yemen (YE)	
248	Zambia (ZM)	
249	Zimbabwe (ZW)	
250	Other	

Resource TRL
According to Horizon 2020

No.	Technology Readiness Level	Description	Changes v3.00 to v4.00
1	TRL1	Basic principles observed	
2	TRL2	Technology concept formulated	
3	TRL3	Experimental proof of concept	
4	TRL4	Technology validated in lab	

5	TRL5	Technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)	
6	TRL6	Technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)	
7	TRL7	System prototype demonstration in operational environment	
8	TRL8	System complete and qualified	
9	TRL9	Actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies; or in space)	

Resource Life Cycle Status

No.	Life Cycle Status	Description	Changes v3.00 to v4.00
1	Concept	Concept development	
2	Discovery	Researching users needs, exploring technological or policy constraints	
3	Design	Resource in design	
4	Preparation	Resource in preparatory phase	
5	Planned	Resource plan defined	
6	Alpha	Resource prototype available for closed set of users	
7	Beta	Resource being developed while available for testing publicly	
8	Implementation	Resource in deployment	
9	Production	Resource available in the live environment	
10	Operation	Resource offered	
11	In containment	Resource active, but generally not available to new users	
12	Retirement	Resource is not anymore offered	
13	Termination	Resource dissolution, dismantling	
14	Other		

Resource Funding Body

No.	Funding Body	Changes v3.00 to v4.00
1	Academy of Finland (AKA) - Finland	

2	Agency for Environment and Energy Management (ADEME) - France	
3	Agency for Innovation by Science and Technology (IWT) - Belgium	
4	Agency for Science, Innovation and Technology (MITA) - Lithuania	
5	Alfred Wegener Institute for Polar and Marine Research (AWI) - Germany	
6	Alternative Energies and Atomic Energy Commission (CEA) - France	
7	Arts and Humanities Research Council (AHRC) - United Kingdom	
8	Australian Research Council (ARC) - Australia	
9	Austrian Academy of Sciences (OeAW) - Austria	
10	Austrian Research Promotion Agency (FFG) - Austria	
11	Austrian Science Fund (FWF) - Austria	
12	Belmont Forum	
13	Biotechnology and Biological Sciences Research Council (BBSRC) - United Kingdom	
14	Brussels Institute for Research and Innovation (INNOVIRIS) - Belgium	
15	Canadian Institutes of Health Research (CIHR) - Canada	
16	Carlos III Health Institute (ISCIII) - Spain	
17	Center for Industrial Technological Development (CDTI) - Spain	
18	Croatian Science Foundation (CSF) - Croatia	
19	Czech Science Foundation (GACR) - Czechia	
20	Danish Agency for Science and Higher Education (DASHE) - Denmark	
21	Danish Agency for Science, Technology and Innovation (DASTI) - Denmark	
22	Danish Council for Independent Research (DFF) - Denmark	
23	Danish National Research Foundation (DNRF) - Denmark	
24	German Research Foundation (DFG) - Germany	
25	Economic and Social Research Council (ESRC) - United Kingdom	
26	Engineering and Physical Sciences Research Council (EPSRC) - United Kingdom	
27	Estonian Research Council (ETAG) - Estonia	
28	European Comission (EC)	
29	European Space Agency (ESA)	
30	Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI - CNCS) - Romania	

31	Federal Department of Economic Affairs, Education and Research (EAER) - Switzerland	
32	Federal Ministry of Education and Research (BMBF) - Germany	
33	Finnish Funding Agency for Innovation (TEKES)	
34	Flanders Innovation & Entrepeneurship (VLAIO) - Belgium	
35	Fonds National de la Recherche Scientifique (FNRS) - Belgium	
36	Foundation for Fundamental Research on Matter (FOM) - Netherlands	
37	Foundation for Polish Science (FNP) - Poland	
38	General Secretariat for Research and Technology (GSRT) - Greece	
39	Foundation for Science and Technology (FCT) - Portugal	
40	French National Aerospace Research Center (ONERA) - France	
41	French National Research Agency (ANR) - France	
42	French Polar Institute (IPEV) - France	
43	French Research Institute for Exploitation of the Sea (IFREMER) - France	
44	Fritz Thyssen Foundation (FTS) - Germany	
45	General Operational Directorate for Economy, Employment and ResearchDGO6) - Belgium	
46	German Aerospace Center (DLR) - Germany	
47	Icelandic Centre for Research (RANNIS) - Iceland	
48	Innovation Fund Denmark	
49	Innovation Fund of the Ministry of Economy of the Slovak Republic (IMSR) - Slovakia	
50	International Science Council (ISC)	
51	Irish Research Council (IRC) - Ireland	
52	Israel Science Foundation (ISF) - Israel	
53	Japanese Science and Technology Agency (JST) - Japan	
54	Japanese Society for the Promotion of Science (JSPS) - Japan	
55	Knowledge Foundation (KKS) - Sweden	
56	Knut and Alice Wallenberg Foundation (KAWS) - Sweden	
57	La Caixa Foundation (CAIXA) - Spain	
58	Malta Council for Science and Technology (MCST) - Malta	
59	Max Planck Society for the Advancement of Science (MPG) - Germany	
60	Medical Research Council (MRC) - United Kingdom	

61	Ministry for Economic Development and Technology (MGRT) - Slovenia	
62	Ministry for Economy and Competitveness (MINECO) - Spain	
63	Ministry for Education and Scientific Research (MECR) - Romania	
64	Ministry for Education, University and Research (MIUR) - Italy	
65	Ministry of Education, Science and Technological Development of Republic of Serbia (MESTD) - Serbia	
66	Ministry of Education, Youth and Sports of the Czech Republic (MEYS)	Addition
67	Ministry of Higher Education and Research (MESR) - France	
68	Ministry of Science and Education Republic of Croatia (MSE) - Croatia	
69	Ministry of Science and Technology of the People's Republic of China (MOST) - China	
70	National Aeronautics and Space Administration (NASA) - United States	
71	National Authority for Scientific Research (ANCS) - Romania	
72	National Centre for Research and Development (NCBiR) - Poland	
73	National Centre for Scientific Research (CNRS) - France	
74	National Centre for Space Studies (CNES) - France	
75	National Council for Scientific and Technological Development (CNPq) - Brazil	
76	National Foundation for Research, Technology and Development (OeNFTE) - Austria	
77	National Health and Medical Research Council (NHMRC) - Australia	
78	National institute of Agricultural Research (INRA) - France	
79	National Institute of Health and Medical Research (INSERM) - France	
80	National Institutes of Health (NIG) - United States	
81	National Research Council (CNR) - Italy	
82	National Research Foundation (NRF) - South Africa	
83	National Research Fund (FNR) - Luxembourg	
84	National Research, Development and Innovation Fund (NKFIA) - Hungary	
85	National Science Center (NCN) - Poland	
86	National Science Foundation (NSF) - United States	
87	National University Research Council (CNCSIS) - Romania	
88	Natural Environment Research Council (NERC) - United Kingdom	

89	Natural Sciences and Engineering Research Council of Canada (NSERC) - Canada	
90	Netherlands Organisation for Scientific Research (NWO) - Netherlands	
91	Research Council UK (RCUK) - United Kingdom	
92	Research and Development Agency (APVV) - Slovakia	
93	Research Council of Lithuania (LMT) - Lithuania	
94	Research Council of Norway (RCN) - Norway	
95	Research Foundation Flanders (FWO) - Belgium	
96	Research Promotion Foundation (RPF) - Cyprus	
97	São Paulo Research Foundation (FAPESP) - Brazil	
98	Science and Technology Facilities Council (STFC) - United Kingdom	
99	Science Foundation Ireland (SFI) - Ireland	
100	Scientific and Technological Research Council of Turkey (TUBITAK) - Turkey	
101	Scientific Grant Agency (VEGA) - Slovakia	
102	Secretariat-General for Investment (SGPI) - France	
103	Slovenian Research Agency (ARRS) - Slovenia	
104	Social Sciences and Humanities Research Council (SSHRC) - Canada	
105	Spanish National Research Council (CSIC) - Spain	
106	State Education Development Agency (VIAA) - Latvia	
107	Swedish Energy Agency - Sweden	
108	Swedish Environmental Protection Agency - Sweden	
109	Swedish Foundation for Strategic Environmental Research (MISTRA) - Sweden	
110	Swedish Foundation for Strategic Research (SSF) - Sweden	
111	Swedish Governmental Agency for Innovation Systems (VINNOVA) - Sweden	
112	Swedish National Space Board (SNSB) - Sweden	
113	Swedish Radiation Safety Authority - Sweden	
114	Swedish Reseach Council Formas - Sweden	
115	Swedish Research Council (VR) - Sweden	
116	Swedish Research Council for Health, Working Life and Welfare (FORTE) - Sweden	
117	Swiss National Science Foundation (SNF) - Switzerland	

118	Tara Expeditions Foundation (TARA) - France	
119	Finnish Funding Agency for Technology and Innovation (TEKES) - Finland	
120	Technology Agency of the Czech Republic (TACR) - Czechia	
121	Technology Foundation (STW) - Netherlands	
122	The Danish Council for Independent Research (DDF) - Denmark	
123	The Icelandic Centre for Research (RANNIS) - Iceland	
124	The Ministry of Education, Science, Research and Sports of the Slovak Republic (MSVVaS SR) - Slovakia	
125	The Research Council of Norway - Norway	
126	The Swedish Foundation for Humanities and Social Sciences (RJ) - Sweden	
127	UK Research and Innovation (UKRI) - United Kingdom	
128	Vienna Science and Technology Fund (WWTF) - Austria	
129	Volkswagen Foundation (VS) - Germany	
130	Wellcome trust (WT) - United Kingdom	
131	Arcadia Fund	Addition
132	Ministry of Research, Innovation and Digitization	Rejected
133	Other	

Resource Funding Program

No.	Funding Program	Changes v3.00 to v4.00
1	Anti Fraud Information System (AFIS2020)	
2	European Agricultural Guarantee Fund (after transfers between EAGF and EAFRD) (AGR)	
3	Net transfer between EAGF and EAFRD (AGRNET)	
4	Asylum, Migration and Integration Fund (AMF)	
5	Rights, equality and citizenship programme (CDF2020)	
6	Connecting Europe Facility (CEF)	
7	Cohesion Fund (CF)	
8	Common foreign and security policy (CFSP2020)	
9	Contribution from the Cohesion Fund to the CEF programme (CF_DET)	
10	Europe for Citizens (CIT2020)	
11	Competitiveness (more developed regions) (COMPREG)	
12	Consumer programme (CONS)	

13	European Earth Observation Programme (COPERNICUS)	
14	Programme for the competitiveness of enterprises and small and medium-sized enterprises (COSME)	
15	Union Civil Protection Mechanism — Member States (CPM_H3)	
16	Union Civil Protection Mechanism — Outside EU (CPM_H4)	
17	Creative Europe programme (CREA)	
18	Action programme for customs in the European Union (CUST2020)	
19	Development Cooperation Instrument (DCI2020)	
20	The Union programme for education, training, youth and sport (Erasmus+) (E4A)	
21	European Agricultural Fund for Rural Development (after transfers between EAGF and EAFRD) (EAFRD)	
22	European Agricultural Fund for Rural Development (EAFRD2020)	
23	European Agricultural Guarantee Fund (EAGF2020)	
24	Emergency Aid Reserve (EAR2020)	
25	Energy projects to aid economic recovery (EERP)	
26	European Fund for Sustainable Development (EFSD)	
27	European Fund for Strategic Investments (EFSI)	
28	European Globalisation Adjustment Fund (EGF2020)	
29	European Instrument for Democracy and Human Rights (EIDHR2020)	
20	European Maritime and Fisheries Fund (EMFF2020)	
31	European Neighbourhood Instrument (ENI)	
32	European Regional Development Fund (ERDF)	
33	European Solidarity Corps (ESC)	
34	European Social Fund (ESF)	
35	European statistical programme (ESP2017)	
36	European statistical programme (ESP2020)	
37	EU Aid Volunteers initiative (EUAV)	
38	Euratom research and training programme (EURATOM)	
39	Comparison of fingerprints for the effective application of the Dublin Convention (EURODAC2020)	
40	European Union Solidarity Fund (EUSF2020)	
41	European Union Solidarity Fund (EUSF) — Member States (EUSF_H3)	

42	European Union Solidarity Fund (EUSF) — Countries negotiating for accession (EUSF_H4)	
43	Fund for European Aid to the Most Deprived (FEAD)	
44	Food and feed (FF2020)	
45	Specific activities in the field of financial reporting and auditing (FINSER2020)	
46	Action programme for taxation in the European Union (FISC2020)	
47	Implementation and exploitation of European satellite navigation systems (EGNOS and Galileo) (GAL2014)	
48	EU cooperation with Greenland (GRLD2020)	
49	Horizon 2020 - The framework programme for research and innovation (H2020)	
50	Union's action in the field of health (Health programme) (HEALTH)	
51	Programme to promote activities in the field of the protection of the European Union's financial interests (HERC3)	
52	Supplementary high flux reactor (HFR) programmes (HFR2015)	
53	Humanitarian aid (HUMA2020)	
54	Enhancing consumers involvement in EU policy making in the field of financial services (ICFS)	
55	Instrument for emergency support within the Union (IES)	
56	Instrument contributing to Stability and Peace (IFS2020)	
57	Instrument for Nuclear Safety Cooperation (INSC2020)	
58	Instrument for Pre-accession Assistance (IPA2)	
59	Interoperability Solutions for European Public Administrations (ISA2015)	
60	Interoperability Solutions for European public administrations, businesses and citizens (ISA2020)	
61	Internal Security Fund (ISF)	
62	International thermonuclear experimental reactor (ITER)	
63	Justice programme (JUST)	
64	Programme for the Environment and Climate Action (LIFE2020)	
65	Guarantee Fund for external actions (LOAN2020)	
66	Macro financial assistance (MFA)	
67	Nuclear decommissioning assistance programmes in Bulgaria, Lithuania and Slovakia (ND)	
68	Outermost and sparsely populated regions (OUTREG)	

69	Exchange, assistance and training programme for the protection of the euro against counterfeiting (PERI2020)	
70	Partnership instrument for cooperation with third countries (PI)	
71	European Union programme for employment and social innovation (PSCI)	
72	Regional convergence (less developed regions) (REGCONV)	
73	Compulsory contributions to regional fisheries management organisations (RFMOs) and to other international organisations	
74	Sustainable Fisheries Partnership Agreements (SFPAs)	
75	Schengen Information System (SIS2020)	
76	Technical assistance and innovative actions (TA_IA)	
77	Instrument of financial support for encouraging the economic development of the Turkish Cypriot community (TCC)	
78	European territorial cooperation (TERRCOOP)	
79	Transition regions (TRANSREG)	
80	Visa Information System (VIS2020)	
81	Youth employment initiative (specific top-up allocation) (YEI)	
82	Large Research Infrastructures Programme of the MEYS, Czech Republic	Addition
83	Development, deployment and operation of ICT-based e-infrastructures	Addition
84	NUCLEU Programme (Romania)	Addition
85	LINDAT/CLARIAH-CZ Digital Research Infrastructure for the Language Technologies, Arts and Humanities (LM2018101)	Addition
86	ESA EO Exploitation Platforms initiative	Addition
87	Other	

Resource Order Type

No.	Request/Order Type	Description	Changes v3.00 to v4.00
1	Request/Order required	Resource requires an ordering procedure	
2	Open access	No ordering procedure necessary to access the resource but requires user authentication	
3	Fully open access	No ordering procedure necessary to access the resource and no user authentication required	
4	Embargoed Access	No access to Resource for a specific time period	Rejected
5	Other		