

# EOSC Profiles

<b>Release</b>	v3.00
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<b>Abstract</b>	EOSC Profiles are specifications that define common data models for EOSC entities (Providers, Resources, etc) and related taxonomies. They contribute to the unified framework for describing and offering EOSC Resources to end-users in a harmonised way, guaranteeing the interoperability of resources metadata with open APIs. They allow automated management of the EOSC resource information and their accompanying data without human intervention (e.g., harvesting, etc).
<b>Contributors</b>	JNP: Jorge Sanchez (editor), Nikos Vogiatzis, Afrodite Sevasti, Yannis Mitsos, Antonis Zervas, Panos Spyrou, Theodore Ntzezes, EGI: Owen Appleton, Sergio Andreozzi, Malgorzata Krakowian, EUDAT: Mark van der Sanden, EPCC: Rob Baxter, GÉANT Assoc: Michelle Williams, Kostas Koumantaros, Annabel Grant, Shaun Cairns, Karl Meyer, UOA: George Papastefanatos, Giorgos Giannopoulos, Michael Zouros, Natalia Manola, OpenAIRE: Paolo Manghi, Donatella Castelli, Franco Zoppi, Andrea Mannocci, EFIS: Carmela Asero, Alasdair Reid, Jelena Angelis, Vladimir Cvijanovic, ESF: Ana Helman, Xavier Meyer, Antti Tahvanainen, EKT-NHRF: Haris Georgiadis, Vasilis Bonis, EUROCEAN: Margherita Zorgno, CTLS: Patrick England, Anna Kamenskaya, CESSDA: Carsten Thiel, e-IRG: Jan Wiebelitz, Gabriele von Voigt, PRACE AISBL: Florian Berberich, Pedro Alberto, Oriol Pineda, ARC: Penny Labropoulou, Androniki Pavlidou.
<b>Credits</b>	The EOSC Profiles are developed with the contribution of: JNP, UOA, EGI, EUDAT, OPENAIRE, EPCC, GEANT, EFIS, ESF, EKT, e-IRG, PRACE, ARC, EUROCEAN, CTLS in the framework of: the eInfraCentral project that has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731049, the EOSC-hub project that has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 777536, the CatRIS project that has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 824173 and the EOSC Enhance project that has received funding from European Union's Horizon 2020 research and innovation programme under grant agreement No 871160.
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<b>References</b>	<a href="https://confluence.egi.eu/x/K4PeAw">https://confluence.egi.eu/x/K4PeAw</a>
<b>Acronyms</b>	<a href="https://confluence.egi.eu/x/d4PeAw">https://confluence.egi.eu/x/d4PeAw</a>
<b>Definitions</b>	<a href="https://confluence.egi.eu/x/coPeAw">https://confluence.egi.eu/x/coPeAw</a>
<b>Report Improvement</b>	<a href="https://jira.egi.eu/projects/EOSCENIT/issues/EOSCENIT-1?filter=allopenissues">https://jira.egi.eu/projects/EOSCENIT/issues/EOSCENIT-1?filter=allopenissues</a> or <a href="mailto:enhanceeosc@jnp.gr">enhanceeosc@jnp.gr</a>

# Introduction

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

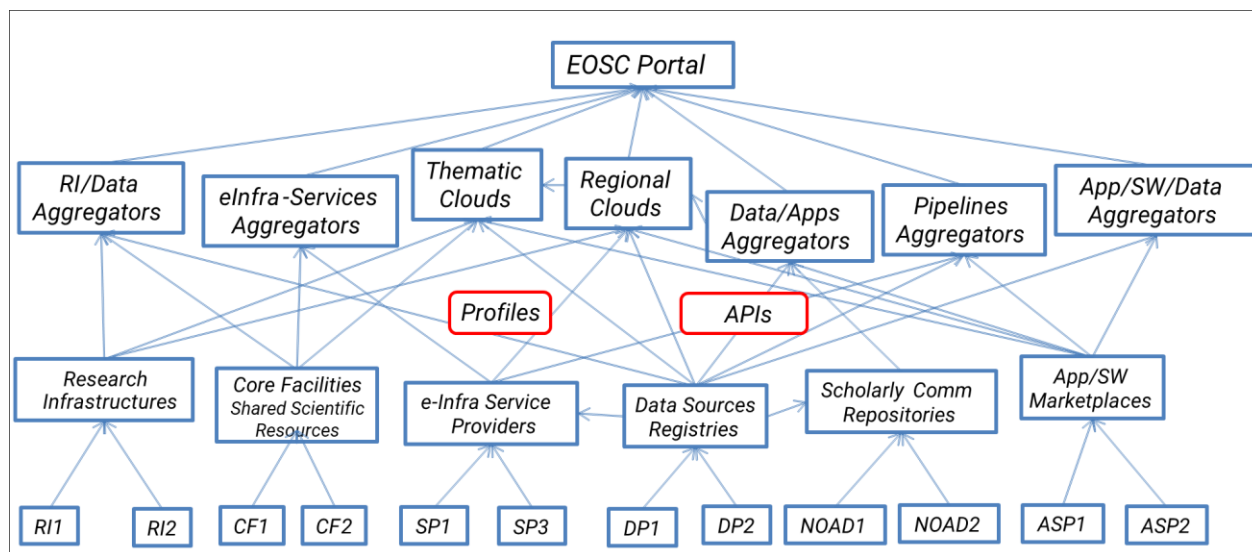
European Researchers increasingly live, work, and conduct research across borders. Their increased mobility must be supported by cross-border services and seamless exchange of data. Unfortunately, the environment in which data exchange takes place amongst EU Member States is complex, creating many semantic interoperability conflicts caused among others by the lack of commonly agreed data models, the absence of universal reference data, etc.

On the other hand many European Research Infrastructures and Resource Providers have their own public catalogues; many others are at very early stages of developing their catalogue; they are following diverse standards, frameworks and approaches; some describe their resources with varying level of detail and complexity, while others had no discoverable or accessible paths to their Resource offerings.

A Catalogue aims to present in a well-organised manner the available Resources that are on offer to a User/Customer by a Provider. It is the customer-facing list of all Resources offered. Similarly, to labels on goods or products, containing information on the good as well as pricing, Resources and their attributes should be explained in a clear and structured manner to guide the user to find the right Resource.

The development and implementation of a Catalogue is an essential step towards the transformation from technology-oriented organisations into customer-oriented organisations. It is a means to communicate and provide clarity to Users/Customers about the Resources available to them, to help improve customer relations by sharing information and managing customer expectations.

The eInfraCentral project recognised early enough that a common approach to describing (Goal-1) and exchanging (Goal-2) Resource-related information is the way forward to enhance discoverability, interoperability 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 Profiles (previously known as Service Description Templates (SDT)) that are widely adopted as the de facto standard scheme for the representation of Service-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.

**Goal-2** was addressed by a rich set of Open REST API methods for the exchange of information among Providers' systems and the EOSC Portal.

This approach bore fruit with the launch of the eInfraCentral Portal in 2017 and later on the EOSC-hub Portal and finally the EOSC Portal on 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 is extending this work to offerings by Research Infrastructures (RIs), Core Facilities (CFs) and Shared Scientific Resources (SSRs) and is now coordinated by EOSC Enhance and being further developed in collaboration with EOSC-hub, CatRIS and in partnership with the ESFRI Cluster projects: ENVRI-FAIR, PaNOSC, ESCAPE, SSHOC and EOSC-Life and the EOSC ecosystem.

The EOSC Profiles are evolving specifications, which will incorporate new features from the European research communities in the EOSC ecosystem.

The EOSC Profiles are part of the **EOSC Interoperability Framework** that comprises among others of:

- the EOSC Profiles;
- the EOSC Portal Application Programming Interfaces (API);
- the EOSC Portal Onboarding Process (OP);
- the EOSC Rules of Participation (RoP).

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 3.00 of the EOSC Profiles include two 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** and the **Resource 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.

The EOSC Profiles Roadmap include the following

- UML, RDF, XML (June 2020)
- Extension of EOSC Resource Profile for Research Products (July 2020)
- Extension of EOSC Resource Profile for Data Sources (September 2020)
- Specification of EOSC Portal APIs v3.00 (October 2020)
- Update to v4.00 (December 2020)

# EOSC Provider Profile

An EOSC Provider is an *EOSC System User* responsible for the provisioning of one or more *Resources to the EOSC*. *EOSC Providers* are organisations, a part of an organisation or a federation that manages and delivers Resources to End-Users. *EOSC Providers* can be: *Resource Providers*, *Service Providers*, *Data (Source) Providers*, *Service Developers*, *Research Infrastructures*, *Distributed Research Infrastructures*, *Resource Aggregators*, *Thematic Clouds*, *Regional Clouds*, etc. More definitions [here](#).

## EOSC Provider Data Model

Basic Information						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
EPP.BAL.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.BAL.1	Name	Full Name of the Provider offering the resource and acting as main contact point.	String (max 100)	1	Mandatory	Yes
EPP.BAL.2	Abbreviation	Abbreviation or short name of the Provider.	String (max 30)	1	Mandatory	Yes
EPP.BAL.3	Website	Webpage with information about the Provider.	URL	1	Mandatory	Yes
EPP.BAL.4	Legal Entity	A Y/N question to define whether the Provider is a Legal Entity or not.	Boolean	1	Mandatory	Yes
EPP.BAL.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	1	Optional	Yes
Marketing Information						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public

<b>EPP.MRI.1</b>	<b>Description</b>	The description of the Provider.	String (max 1000)	1	<b>Mandatory</b>	Yes
<b>EPP.MRI.2</b>	<b>Logo</b>	Link to the logo/visual identity of the Provider.	URL	1	<b>Mandatory</b>	Yes
<b>EPP.MRI.3</b>	<b>Multimedia</b>	Link to video, slideshow, photos, screenshots with details of the Provider.	URL	Multiple	Optional	Yes
<b>Classification Information</b>						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
<b>EPP.CLI.1</b>	<b>Scientific Domain</b>	A named group of providers that offer access to the same type of resource or capabilities.	List of controlled values	Multiple	Optional	Yes
<b>EPP.CLI.2</b>	<b>Scientific Subdomain</b>	A named group of providers that offer access to the same type of resource or capabilities, within the defined domain.	List of controlled values	Multiple	Optional	Yes
<b>EPP.CLI.3</b>	<b>Tags</b>	Keywords associated to the Provider to simplify search by relevant keywords.	String (max 20)	Multiple	Optional	Yes
<b>Location Information</b>						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
<b>EPP.LOI.1</b>	<b>Street Name and Number</b>	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	<b>Mandatory</b>	Yes
<b>EPP.LOI.2</b>	<b>Postal Code</b>	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	<b>Mandatory</b>	Yes
<b>EPP.LOI.3</b>	<b>City</b>	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	<b>Mandatory</b>	Yes

<b>EPP.L0I.4</b>	<b>Region</b>	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
<b>EPP.L0I.5</b>	<b>Country</b>	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	1	<b>Mandatory</b>	Yes
<b>Contact Information</b>						
<b>Main Contact/Provider Manager</b>						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
<b>EPP.COL1</b>	<b>First Name</b>	First Name of the Provider's main contact person/Provider manager.	String (max 50)	1	<b>Mandatory</b>	No
<b>EPP.COL2</b>	<b>Last Name</b>	Last Name of the Provider's main contact person/Provider manager.	String (max 50)	1	<b>Mandatory</b>	No
<b>EPP.COL3</b>	<b>Email</b>	Email of the Provider's main contact person/Provider manager.	Email	1	<b>Mandatory</b>	No
<b>EPP.COL4</b>	<b>Phone</b>	Phone of the Provider's main contact person/Provider manager.	String (max 20)	1	Optional	No
<b>EPP.COL5</b>	<b>Position</b>	Position of the Provider's main contact person/Provider manager.	String (max 50)	1	Optional	No
<b>Public Contact</b>						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
<b>EPP.COL6</b>	<b>First Name</b>	First Name of the Provider's contact person to be displayed at the portal.	String (max 20)	1	Optional	Yes
<b>EPP.COL7</b>	<b>Last Name</b>	Last Name of the Provider's contact person to be displayed at the portal.	String (max 20)	1	Optional	Yes
<b>EPP.COL8</b>	<b>Email</b>	Email of the Provider's contact person to be displayed at the portal or general email to contact Provider.	Email	1	<b>Mandatory</b>	Yes

<b>EPP.COL.9</b>	<b>Phone</b>	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
<b>EPP.COL.10</b>	<b>Position</b>	Position of the Provider's contact person to be displayed at the portal.	String (max 50)	1	Optional	Yes
<b>Maturity Information</b>						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
<b>EPP.MTL.1</b>	<b>Life Cycle Status</b>	Current status of the Provider/Research infrastructure life-cycle.	List of controlled values	1	Optional	Yes
<b>EPP.MTL.2</b>	<b>Certifications</b>	List of certifications obtained for the Provider (including the certification body and any certificate number).	String (max 250)	Multiple	Optional	Yes
<b>Other Information</b>						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
<b>EPP.OTH.1</b>	<b>Hosting Legal Entity</b>	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.	String (max 80)	1	Optional	Yes
<b>EPP.OTH.2</b>	<b>Participating Countries</b>	Providers/Research Infrastructures that are funded by several countries should list here all supporting countries (including the Coordinating country).	List of controlled values	Multiple	Optional	Yes
<b>EPP.OTH.3</b>	<b>Affiliations</b>	Providers that are members or affiliated or associated with other organisations should list those organisations here	String (max 30)	Multiple	Optional	Yes

<b>EPP.OTH.4</b>	<b>Networks</b>	Select the networks the Provider is participating in.	List of controlled values	Multiple	Optional	Yes
<b>EPP.OTH.5</b>	<b>Structure Type</b>	Defines the Provider structure type (single-sited, distributed, mobile, virtual, etc.)	List of controlled values	Multiple	Optional	Yes
<b>EPP.OTH.6</b>	<b>ESFRI Domain</b>	ESFRI domain classification.	List of controlled values	Multiple	Optional	Yes
<b>EPP.OTH.7</b>	<b>ESFRI Type</b>	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	1	Optional	Yes
<b>EPP.OTH.8</b>	<b>MERIL Scientific Domain</b>	MERIL scientific domain classification	List of controlled values:	Multiple	Optional	Yes
<b>EPP.OTH.9</b>	<b>MERIL Scientific Subdomain</b>	MERIL scientific subdomain classification	List of controlled values	Multiple	Optional	Yes
<b>EPP.OTH.10</b>	<b>Areas of Activity</b>	Basic research, Applied research or Technological development	List of controlled values	Multiple	Optional	Yes
<b>EPP.OTH.11</b>	<b>Societal Grand Challenges</b>	Provider's participation in the grand societal challenges as defined by the European Commission	List of controlled values	Multiple	Optional	Yes
<b>EPP.OTH.12</b>	<b>National Roadmaps</b>	Provider being part of a national roadmap for research infrastructures	String (max 80)	Multiple	Optional	Yes



# EOSC Provider Onboarding Guide

Basic Information					
Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
<b>EPP.BAI.0</b>	<b>ID</b>	openaire	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).		
<b>EPP.BAI.1</b>	<b>Name</b>	Open Access Infrastructure for Research in Europe			Verify via internet search if the Provider name is a valid organisation name and has a Website with the same FQDN.
<b>EPP.BAI.2</b>	<b>Abbreviation</b>	OpenAIRE			Verify via internet search that this is the relevant abbreviation (no typos or misspellings)

<b>EPP.BAI.3</b>	<b>Website</b>	<a href="https://www.openaire.eu">https://www.openaire.eu</a>	Provide the landing page (i.e. domain name or FQDN) of the service provider	Validate nominal FQDN, reject IP or other formats	
<b>EPP.BAI.4</b>	<b>Legal Entity</b>	Y			
<b>EPP.BAI.5</b>	<b>Legal Status</b>	Non-Profit Partnership (NPP)			
<b>Marketing Information</b>					
Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
<b>EPP.MRI.1</b>	<b>Description</b>	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 Science and Scholarship, of which Open Access is of fundamental importance.	Describe shortly the objective and background of your organisation.		Compare briefly to provider website to ensure content consistency, but generally take as is.

<b>EPP.MRI.2</b>	<b>Logo</b>	<a href="https://www.openaire.eu/images/OpenAIRE_branding/Logo_Horizontal.png">https://www.openaire.eu/images/OpenAIRE_branding/Logo_Horizontal.png</a>	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	
<b>EPP.MRI.3</b>	<b>Multimedia</b>	<a href="https://vimeo.com/108790101">https://vimeo.com/108790101</a>	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	
<b>Classification Information</b>					
Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
<b>EPP.CLI.1</b>	<b>Scientific Domain</b>	Information Science and Technology			
<b>EPP.CLI.2</b>	<b>Scientific Subdomain</b>	Complex Data Facilities			
<b>EPP.CLI.3</b>	<b>Tags</b>	Open data, open science, publications, research papers	Add keywords about the provider. For multi-word keywords, please use '-' to concatenate words	Validate keywords, by inserting '-' to concatenate words not separated by commas and identify as separate keywords words that are separated by commas	

<b>Location Information</b>					
Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
<b>EPP.L0L1</b>	<b>Street Name and Number</b>	Christou Lada			
<b>EPP.L0L2</b>	<b>Postal Code</b>	10561			
<b>EPP.L0L3</b>	<b>City</b>	Athens			
<b>EPP.L0L4</b>	<b>Region</b>	Attica			
<b>EPP.L0L5</b>	<b>Country</b>	Greece			
<b>Contact Information</b>					
<b>Main Contact/Provider Manager</b>					
Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
<b>EPP.COL1</b>	<b>First Name</b>	Minos			
<b>EPP.COL2</b>	<b>Last Name</b>	Hantzopoulos			Check for obvious typos in the name. Confirm with an internet search of the name and provider
<b>EPP.COL3</b>	<b>Email</b>	<a href="mailto:minos@uniath.gr">minos@uniath.gr</a>		Validate e-mail address	
<b>EPP.COL4</b>	<b>Phone</b>	3021077755500		Validate for number (use separate input field for country prefixes)	
<b>EPP.COL5</b>	<b>Position</b>	Coordinator			
<b>Public Contact</b>					

Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
<b>EPP.COL.6</b>	<b>First Name</b>	Natalia			
<b>EPP.COL.7</b>	<b>Last Name</b>	Pappa			Check for obvious typos in the name. Confirm with a google search of the name and provider
<b>EPP.COL.8</b>	<b>Email</b>	<a href="mailto:pappa@uniath.gr">pappa@uniath.gr</a>		Validate e-mail address	
<b>EPP.COL.9</b>	<b>Phone</b>	<a href="tel:293084436">293084436</a>		Validate for number (use separate input field for country prefixes)	
<b>EPP.COL.10</b>	<b>Position</b>	Manager			
<b>Maturity Information</b>					
Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
<b>EPP.MTI.1</b>	<b>Life Cycle Status</b>	Operational			

<b>EPP.MTI.2</b>	<b>Certifications</b>	ISO-27001			<p>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 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.</p>
<b>Other Information</b>					
Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
<b>EPP.OTH.1</b>	<b>Hosting Legal Entity</b>	OpenAIRE			Verify the existence, name of the provided entity via an internet search

<b>EPP.OTH.2</b>	<b>Participating Countries</b>	Germany, Italy, Poland, Switzerland, Portugal, Netherlands, Belgium, Norway, Uruguay			
<b>EPP.OTH.3</b>	<b>Affiliations</b>	EGI, EUDAT, GEANT, OpenAIRE, etc			
<b>EPP.OTH.4</b>	<b>Networks</b>	Open Access Infrastructure for Research in Europe (OpenAIRE)			
<b>EPP.OTH.5</b>	<b>Structure Type</b>	Virtual			
<b>EPP.OTH.6</b>	<b>ESFRI Domain</b>	Data, Computing and Digital Research Infrastructures			
<b>EPP.OTH.7</b>	<b>ESFRI Type</b>	Not an ESFRI project or landmark			
<b>EPP.OTH.8</b>	<b>MERIL Scientific Domain</b>	Humanities & Arts			
<b>EPP.OTH.9</b>	<b>MERIL Scientific Subdomain</b>	Collections			
<b>EPP.OTH.10</b>	<b>Areas of Activity</b>	Other			
<b>EPP.OTH.11</b>	<b>Societal Grand Challenges</b>	Other			
<b>EPP.OTH.12</b>	<b>National Roadmaps</b>	No			

# EOSC Provider Transition Guide

Basic Information							
Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Registry Transition v1.13 to v3.00	Changes v1.30 to v3.00 (EOSC-hub)	Registry Transition MP v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Registry Transition v2.00 to v3.00
<b>EPP.BAI.0</b>	<b>ID</b>	No Change	<i>Copy</i>	New	<i>ID should be compliant to the Providers' IDs</i>	No Change	<i>Copy</i>
<b>EPP.BAI.1</b>	<b>Name</b>	No Change	<i>Copy</i>	Change Attribute Name (old Service Provider Name) Change Type (old Single Line)	<i>Copy</i>	Change Attribute Name (old Full Name) Change length (old max 80)	<i>Copy</i>
<b>EPP.BAI.2</b>	<b>Abbreviation</b>	New	Default value empty(null)	New	Default value empty(null)	Change Attribute Name (old Acronym) Change length (old max 20)	<i>Copy</i>
<b>EPP.BAI.3</b>	<b>Website</b>	Change Attribute Name (old URL)	<i>Copy</i>	Change Attribute Name (old Service Provider URL)	<i>Copy</i>	No Change	<i>Copy</i>
<b>EPP.BAI.4</b>	<b>Legal Entity</b>	New	Default value "Y"	New	Default value "Y"	New	Default value "Y"
<b>EPP.BAI.5</b>	<b>Legal Status</b>	New	Default value "Other"	New	Default value "Other"	Moved from Other Information Block	Copy



Marketing Information							
Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Registry Transition v1.13 to v3.00	Changes v1.30 to v3.00 (EOSC-hub)	Registry Transition MP v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Registry Transition v2.00 to v3.00
<b>EPP.MRI.1</b>	<b>Description</b>	<b>Change to Mandatory</b>	<i>Copy</i> or if empty Default value empty (null)	Change Attribute Name (old Service Provider Description) Change Type (old Freetext) <b>Change to Mandatory</b>	<i>Copy or if empty Default value "-"</i>	No Change	<i>Copy</i>
<b>EPP.MRI.2</b>	<b>Logo</b>	<b>Change to Mandatory</b>	<i>Copy</i> or if empty URL to default EOSC Provider Logo	Change Attribute Name (old Service Provider Logo)	<i>Copy or if empty URL to default EOSC Provider Logo</i>	No Change	<i>Copy or if empty URL to default EOSC Provider Logo</i>
<b>EPP.MRI.3</b>	<b>Multimedia</b>	<b>New</b>	Default value empty(null)	<b>New</b>	Default value empty(null)	No Change	<i>Copy</i>
Classification Information							
Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Registry Transition v1.13 to v3.00	Changes v1.30 to v3.00 (EOSC-hub)	Registry Transition MP v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Registry Transition v2.00 to v3.00
<b>EPP.CLI.1</b>	<b>Scientific Domain</b>	<b>New</b>	Default value "Other"	<b>New</b>	Default value "Other"	<b>Change to Optional</b>	<i>Copy</i>
<b>EPP.CLI.2</b>	<b>Scientific Subdomain</b>	<b>New</b>	Default value "Other"	<b>New</b>	Default value "Other"	Change Name (old Category) <b>Change to Optional</b>	<i>Copy</i>

<b>EPP.CLI.3</b>	<b>Tags</b>	<b>New</b>	Default value empty(null)	Change Attribute Name (old Service Tags)	Default value empty(null)	No Change	<i>Copy</i>
<b>Location Information</b>							
Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Registry Transition v1.13 to v3.00	Changes v1.30 to v3.00 (EOSC-hub)	Registry Transition MP v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Registry Transition v2.00 to v3.00
<b>EPP.L0L1</b>	<b>Street Name and Number</b>	<b>New</b>	Default value "_"	<b>New</b>	Default value "-"	Change length (old max 20) Change Attribute Name (old Location Street + Location Number)	<i>Copy</i>
<b>EPP.L0L2</b>	<b>Postal Code</b>	<b>New</b>	Default value "_"	<b>New</b>	Default value "-"	Change Attribute Name (old Location Postal Code)	<i>Copy</i>
<b>EPP.L0L3</b>	<b>City</b>	<b>New</b>	Default value "_"	<b>New</b>	Default value "-"	Change Attribute Name (old Location City)	<i>Copy</i>
<b>EPP.L0L4</b>	<b>Region</b>	<b>New</b>	Default value empty(null)	<b>New</b>	Default value empty(null)	Change length (old max 20) Change Attribute Name (old Location Region) <b>Change to Optional</b>	<i>Copy</i>

<b>EPP.L0L5</b>	<b>Country</b>	<b>New</b>	Default value "Other"	Change Type (old Single Line)	<i>Copy</i>	Change Attribute Name (old Coordinating Country)	<i>Copy</i>
<b>Contact Information</b>							
Main Contact/Provider Manager							
Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Registry Transition v1.1 3 to v3.00	Changes v1.30 to v3.00 (EOSC- hub)	Registry Transition MP v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Registry Transition v2.00 to v3.00
<b>EPP.COL1</b>	<b>First Name</b>	No Change	<i>Copy</i>	Change Attribute Name (old Service Provider Contact Name) Change Type (old Single Line)	<i>Copy only First Name</i>	Change length (old max 20) Change Attribute Name (old Contact-1 First Name)	<i>Copy</i>
<b>EPP.COL2</b>	<b>Last Name</b>	No Change	<i>Copy</i>	Change Attribute Name (old Service Provider Contact Name) Change Type (old Single Line)	<i>Copy only Last Name</i>	Change length (old max 20) Change Attribute Name (old Contact-1 Last Name)	<i>Copy</i>
<b>EPP.COL3</b>	<b>Email</b>	No Change	<i>Copy</i>	Change Attribute Name (old Service Provider Contact Email)	<i>Copy</i>	Change Attribute Name (old Contact-1 Email)	<i>Copy</i>

<b>EPP.COL4</b>	<b>Phone</b>	No Change	Default value empty(null)	<b>New</b>	Default value empty(null)	Change to Optional Change Attribute Name (old Contact-1 Telephone)	<i>Copy</i>
<b>EPP.COL5</b>	<b>Position</b>	<b>New</b>	Default value empty(null)	<b>New</b>	Default value empty(null)	Change length (old max 20) Change Attribute Name (old Contact-1 Position)	<i>Copy</i>
<b>Public Contact</b>							
Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Registry Transition v1.1 3 to v3.00	Changes v1.30 to v3.00 (EOSC- hub)	Registry Transition MP v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Registry Transition v2.00 to v3.00
<b>EPP.COL6</b>	<b>First Name</b>	<b>New</b>	Default value empty(null)	<b>New</b>	Default value empty(null)	Change Attribute Name (old Contact-2 First Name)	<i>Copy</i>
<b>EPP.COL7</b>	<b>Last Name</b>	<b>New</b>	Default value empty(null)	<b>New</b>	Default value empty(null)	Change Attribute Name (old Contact-2 Last Name)	<i>Copy</i>
<b>EPP.COL8</b>	<b>Email</b>	<b>New</b>	Default value info@[Provider Domain] or if difficult "-"	<b>New</b>	Default value info@[Provider Domain] or if difficult "-"	Change Attribute Name (old Contact-2 Email) <b>Change to Mandatory</b>	<i>Copy or if null insert info@[Provider Domain] or if difficult "-"</i>

<b>EPP.COL.9</b>	<b>Phone</b>	<b>New</b>	Default value empty(null)	<b>New</b>	Default value empty(null)	Change Attribute Name (old Contact-2 Phone)	<i>Copy</i>
<b>EPP.COL.10</b>	<b>Position</b>	<b>New</b>	Default value empty(null)	<b>New</b>	Default value empty(null)	Change length (old max 20) Change Attribute Name (old Contact-2 Position)	<i>Copy</i>
<b>Maturity Information</b>							
Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Registry Transition v1.13 to v3.00	Changes v1.30 to v3.00 (EOSC-hub)	Registry Transition MP v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Registry Transition v2.00 to v3.00
<b>EPP.MTL.1</b>	<b>Life Cycle Status</b>	<b>New</b>	Default value "Other"	<b>New</b>	Default value "Other"	<b>Change to Optional</b>	<i>Copy</i>
<b>EPP.MTL.2</b>	<b>Certifications</b>	<b>New</b>	Default value empty(null)	Change Attribute Name (old Service Provider certifications) Change Type (old Freetext)	<i>Copy or Default value empty(null)</i>	<b>New</b>	Default value empty(null)
<b>Other Information</b>							
Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Registry Transition v1.13 to v3.00	Changes v1.30 to v3.00 (EOSC-hub)	Registry Transition MP v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Registry Transition v2.00 to v3.00
<b>EPP.OTH.1</b>	<b>Hosting Legal Entity</b>	<b>New</b>	Default value empty(null)	<b>New</b>	Default value empty(null)	No change	<i>Copy</i>

<b>EPP.OTH.2</b>	<b>Participating Countries</b>	<b>New</b>	Default value "Other"	<b>New</b>	Default value "Other"	Moved from Classification Information Block	<i>Copy</i>
<b>EPP.OTH.3</b>	<b>Affiliations</b>	<b>New</b>	Default value empty(null)	Change Type (old Freetext)	<i>Copy or Default value empty(null)</i>	<b>New</b>	Default value empty(null)
<b>EPP.OTH.4</b>	<b>Networks</b>	<b>New</b>	Default value "Other"	<b>New</b>	Default value "Other"	No change	<i>Copy</i>
<b>EPP.OTH.5</b>	<b>Structure Type</b>	<b>New</b>	Default value "Other"	<b>New</b>	Default value "Other"	Change Attribute Name (old Type) Moved from Classification Information Block <b>Change to Optional</b>	<i>Copy</i>
<b>EPP.OTH.6</b>	<b>ESFRI Domain</b>	<b>New</b>	Default value "Other"	<b>New</b>	Default value "Other"	Moved from Classification Information Block	<i>Copy</i>
<b>EPP.OTH.7</b>	<b>ESFRI Type</b>	<b>New</b>	Default value "Other"	<b>New</b>	Default value "Other"	Change Attribute Name (old ESFRI)	<i>Copy</i>
<b>EPP.OTH.8</b>	<b>MERIL Scientific Domain</b>	<b>New</b>	Default value empty(null)	<b>New</b>	Default value empty(null)	Moved from Classification Information Block	<i>Copy</i>

<b>EPP.OTH.9</b>	<b>MERIL Scientific Subdomain</b>	<b>New</b>	Default value empty(null)	<b>New</b>	Default value empty(null)	Moved from Classification Information Block	<i>Copy</i>
<b>EPP.OTH.10</b>	<b>Areas of Activity</b>	<b>New</b>	Default value "Other"	<b>New</b>	Default value "Other"	No change	<i>Copy</i>
<b>EPP.OTH.11</b>	<b>Societal Grand Challenges</b>	<b>New</b>	Default value "Other"	<b>New</b>	Default value "Other"	No change	<i>Copy</i>
<b>EPP.OTH.12</b>	<b>National Roadmaps</b>	<b>New</b>	Default value empty(null)	<b>New</b>	Default value empty(null)	Change Type (old controlled	

# EOSC Provider Code Lists, Taxonomies, Classifications

## Provider Legal Status

No.	Provider Legal Status	Changes v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
1	Association	New	New	
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			

### 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 v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
<b>1</b>	Natural Sciences	1	Mathematics	New	New	Change to FOS 2017
		2	Computer and information sciences			
		3	Physical sciences			
		4	Chemical sciences			
		5	Earth and related environmental sciences			
		6	Biological sciences			
		7	Other natural sciences			
<b>2</b>	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	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	Other humanities			
7	Generic	1	Generic			Change from Interdisciplinary to Generic
8	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 v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
1	Afghanistan (AF)	New		
2	Åland Islands (AX)			
3	Albania (AL)			
4	Algeria (DZ)			
5	American Samoa (AS)			
6	Andorra (AD)			

<b>7</b>	Angola (AO)			
<b>8</b>	Anguilla (AI)			
<b>9</b>	Antarctica (AQ)			
<b>10</b>	Antigua and Barbuda (AG)			
<b>11</b>	Argentina (AR)			
<b>12</b>	Armenia (AM)			
<b>13</b>	Aruba (AW)			
<b>14</b>	Australia (AU)			
<b>15</b>	Austria (AT)			
<b>16</b>	Azerbaijan (AZ)			
<b>17</b>	Bahamas (BS)			
<b>18</b>	Bahrain (BH)			
<b>19</b>	Bangladesh (BD)			
<b>20</b>	Barbados (BB)			
<b>21</b>	Belarus (BY)			
<b>22</b>	Belgium (BE)			
<b>23</b>	Belize (BZ)			
<b>24</b>	Benin (BJ)			
<b>25</b>	Bermuda (BM)			
<b>26</b>	Bhutan (BT)			
<b>27</b>	Bolivia (BO)			

<b>28</b>	Bonaire, Sint Eustatius and Saba (BQ)			
<b>29</b>	Bosnia and Herzegovina (BA)			
<b>30</b>	Botswana (BW)			
<b>31</b>	Bouvet Island (BV)			
<b>32</b>	Brazil (BR)			
<b>33</b>	British Indian Ocean Territory (IO)			
<b>34</b>	Brunei Darussalam (BN)			
<b>35</b>	Bulgaria (BG)			
<b>36</b>	Burkina Faso (BF)			
<b>37</b>	Burundi (BI)			
<b>38</b>	Cabo Verde (CV)			Cape Verde replaced by Cabo Verde
<b>39</b>	Cambodia (KH)			
<b>40</b>	Cameroon (CM)			
<b>41</b>	Canada (CA)			
<b>42</b>	Cayman Islands (KY)			
<b>43</b>	Central African Republic (CF)			
<b>44</b>	Chad (TD)			
<b>45</b>	Chile (CL)			
<b>46</b>	China (CN)			
<b>47</b>	Christmas Island (CX)			
<b>48</b>	Cocos (Keeling) Islands (CC)			

<b>49</b>	Colombia (CO)			
<b>50</b>	Comoros (KM)			
<b>51</b>	Congo (Democratic Republic) (CD)			
<b>52</b>	Congo (CG)			
<b>53</b>	Cook Islands (CK)			
<b>54</b>	Costa Rica (CR)			
<b>55</b>	Côte d'Ivoire (CI)			
<b>56</b>	Croatia (HR)			
<b>57</b>	Cuba (CU)			
<b>58</b>	Curaçao (CW)			
<b>59</b>	Cyprus (CY)			
<b>60</b>	Czechia (CZ)			Czech Republic replaced by Czechia
<b>61</b>	Denmark (DK)			
<b>62</b>	Djibouti (DJ)			
<b>63</b>	Dominica (DM)			
<b>64</b>	Dominican Republic (DO)			
<b>65</b>	Ecuador (EC)			
<b>66</b>	Egypt (EG)			
<b>67</b>	El Salvador (SV)			
<b>68</b>	Equatorial Guinea (GQ)			
<b>69</b>	Eritrea (ER)			
<b>70</b>	Estonia (EE)			

<b>71</b>	Eswatini (SZ)			Swaziland replaced by Eswatini
<b>72</b>	Ethiopia (ET)			
<b>73</b>	Falkland Islands (FK)			
<b>74</b>	Faroe Islands (FO)			Faeroe Islands replaced by Faroe Islands
<b>75</b>	Fiji (FJ)			
<b>76</b>	Finland (FI)			
<b>77</b>	France (FR)			
<b>78</b>	French Guiana (GF)			
<b>79</b>	French Polynesia (PF)			
<b>80</b>	French Southern Territories (TF)			
<b>81</b>	Gabon (GA)			
<b>82</b>	Gambia (GM)			
<b>83</b>	Georgia (GE)			
<b>84</b>	Germany (DE)			
<b>85</b>	Ghana (GH)			
<b>86</b>	Gibraltar (GI)			
<b>87</b>	Greece (EL)			EL instead of GR
<b>88</b>	Greenland (GL)			
<b>89</b>	Grenada (GD)			
<b>90</b>	Guadeloupe (GP)			
<b>91</b>	Guam (GU)			
<b>92</b>	Guatemala (GT)			

<b>93</b>	Guernsey (GC)			
<b>94</b>	Guinea (GN)			
<b>95</b>	Guinea-Bissau (GW)			
<b>96</b>	Guyana (GY)			
<b>97</b>	Haiti (HT)			
<b>98</b>	Heard Island and McDonald Islands (HM)			
<b>99</b>	Holy See (VA)			
<b>100</b>	Honduras (HN)			
<b>101</b>	Hong Kong (HK)			
<b>102</b>	Hungary (HU)			Republic of Hungary replaced by Hungary
<b>103</b>	Iceland (IS)			
<b>104</b>	India (IN)			
<b>105</b>	Indonesia (ID)			
<b>106</b>	Iran (IR)			
<b>107</b>	Iraq (IQ)			
<b>108</b>	Ireland (IE)			
<b>109</b>	Isle of Man (IM)			
<b>110</b>	Israel (IL)			
<b>111</b>	Italy (IT)			
<b>112</b>	Jamaica (JM)			
<b>113</b>	Japan (JP)			



<b>114</b>	Jersey (JE)			
<b>115</b>	Jordan (JO)			
<b>116</b>	Kazakhstan (KZ)			
<b>117</b>	Kenya (KE)			
<b>118</b>	Kiribati (KI)			
<b>119</b>	Korea (Democratic People's Republic) (KP)			
<b>120</b>	Korea (Republic) (KR)			
<b>121</b>	Kuwait (KW)			
<b>122</b>	Kyrgyzstan (KG)			
<b>123</b>	Lao People's Democratic Republic (LA)			
<b>124</b>	Latvia (LV)			
<b>125</b>	Lebanon (LB)			
<b>126</b>	Lesotho (LS)			
<b>127</b>	Liberia (LR)			
<b>128</b>	Libya (LY)			
<b>129</b>	Liechtenstein (LI)			
<b>130</b>	Lithuania (LT)			
<b>131</b>	Luxembourg (LU)			
<b>132</b>	Macao (MO)			
<b>133</b>	Madagascar (MG)			
<b>134</b>	Malawi (MW)			

<b>135</b>	Malaysia (MY)			
<b>136</b>	Maldives (MV)			
<b>137</b>	Mali (ML)			
<b>138</b>	Malta (MT)			
<b>139</b>	Marshall Islands (MH)			
<b>140</b>	Martinique (MQ)			
<b>141</b>	Mauritania (MR)			
<b>142</b>	Mauritius (MU)			
<b>143</b>	Mayotte (YT)			
<b>144</b>	Mexico (MX)			
<b>145</b>	Micronesia (FM)			
<b>146</b>	Moldova (MD)			
<b>147</b>	Monaco (MC)			
<b>148</b>	Mongolia (MN)			
<b>149</b>	Montenegro (ME)			
<b>150</b>	Montserrat (MS)			
<b>151</b>	Morocco (MA)			
<b>152</b>	Mozambique (MZ)			
<b>153</b>	Myanmar (MM)			
<b>154</b>	Namibia (NA)			
<b>155</b>	Nauru (NR)			
<b>156</b>	Nepal (NP)			

<b>157</b>	Netherlands (NL)			
<b>158</b>	New Caledonia (NC)			
<b>159</b>	New Zealand (NZ)			
<b>160</b>	Nicaragua (NI)			
<b>161</b>	Niger (NE)			
<b>162</b>	Nigeria (NG)			
<b>163</b>	Niue (NU)			
<b>164</b>	Norfolk Island (NF)			
<b>165</b>	North Macedonia MK)			Former Yugoslav Republic of Macedonia replaced by North Macedonia
<b>166</b>	Northern Mariana Islands (MP)			Northern Marianas replaced by Northern Mariana Islands
<b>167</b>	Norway (NO)			
<b>168</b>	Oman (OM)			
<b>169</b>	Pakistan (PK)			
<b>170</b>	Palau (PW)			
<b>171</b>	Palestine, State of (PS)			
<b>172</b>	Panama (PA)			
<b>173</b>	Papua New Guinea (PG)			
<b>174</b>	Paraguay (PY)			
<b>175</b>	Peru (PE)			
<b>176</b>	Philippines (PH)			
<b>177</b>	Pitcairn (PN)			

<b>178</b>	Poland (PL)			
<b>179</b>	Portugal (PT)			
<b>180</b>	Puerto Rico (PR)			
<b>181</b>	Qatar (QA)			
<b>182</b>	Réunion (RE)			
<b>183</b>	Romania (RO)			
<b>184</b>	Russian Federation (RU)			
<b>185</b>	Rwanda (RW)			
<b>186</b>	Saint Barthélemy (BL)			
<b>187</b>	Saint Helena, Ascension and Tristan da Cunha (SH)			Saint Helena replaced by Saint Helena, Ascension and Tristan da Cunha
<b>188</b>	Saint Kitts and Nevis (KN)			
<b>189</b>	Saint Lucia (LC)			
<b>190</b>	Saint Martin (MF)			
<b>191</b>	Saint Pierre and Miquelon (PM)			
<b>192</b>	Saint Vincent and the Grenadines (VC)			
<b>193</b>	Samoa (WS)			
<b>194</b>	San Marino (SM)			
<b>195</b>	São Tomé and Príncipe (ST)			
<b>196</b>	Saudi Arabia (SA)			
<b>197</b>	Senegal (SN)			
<b>198</b>	Serbia (RS)			

<b>199</b>	Seychelles (SC)			
<b>200</b>	Sierra Leone (SL)			
<b>201</b>	Singapore (SG)			
<b>202</b>	Sint Maarten (SX)			
<b>203</b>	Slovakia (SK)			
<b>204</b>	Slovenia (SI)			
<b>205</b>	Solomon Islands (SB)			
<b>206</b>	Somalia (SO)			
<b>207</b>	South Africa (ZA)			
<b>208</b>	South Georgia and the South Sandwich Islands (GS)			
<b>209</b>	South Sudan (SS)			
<b>210</b>	Spain (ES)			
<b>211</b>	Sri Lanka (LK)			
<b>212</b>	Sudan (SD)			
<b>213</b>	Suriname (SR)			
<b>214</b>	Svalbard and Jan Mayen (SJ)			
<b>215</b>	Sweden (SE)			
<b>216</b>	Switzerland (CH)			
<b>217</b>	Syrian Arab Republic (SY)			
<b>218</b>	Taiwan (Province of China) (TW)			
<b>219</b>	Tajikistan (TJ)			

<b>220</b>	Tanzania (TZ)			
<b>221</b>	Thailand (TH)			
<b>222</b>	Timor-Leste (TL)			East Timor replaced by Timor-Leste
<b>223</b>	Togo (TG)			
<b>224</b>	Tokelau (TK)			
<b>225</b>	Tonga (YO)			
<b>226</b>	Trinidad and Tobago (TT)			
<b>227</b>	Tunisia (TN)			
<b>228</b>	Turkey (TR)			
<b>229</b>	Turkmenistan (TM)			
<b>230</b>	Turks and Caicos Islands (TC)			
<b>231</b>	Tuvalu (TV)			
<b>232</b>	Uganda (UG)			
<b>233</b>	Ukraine (UA)			
<b>234</b>	United Arab Emirates (AE)			
<b>235</b>	United Kingdom of Great Britain and Northern Ireland (UK)			UK instead of GB
<b>236</b>	United States Minor Outlying Islands (UM)			
<b>237</b>	United States of America (US)			
<b>238</b>	Uruguay (UY)			
<b>239</b>	Uzbekistan (UZ)			
<b>240</b>	Vanuatu (VU)			

<b>241</b>	Venezuela (VE)			
<b>242</b>	Viet Nam (VN)			
<b>243</b>	Virgin Islands (British) (VG)			
<b>244</b>	Virgin Islands (U.S.) (VI)			
<b>245</b>	Wallis and Futuna (WF)			
<b>246</b>	Western Sahara (EH)			
<b>247</b>	Yemen (YE)			
<b>248</b>	Zambia (ZM)			
<b>249</b>	Zimbabwe (ZW)			
<b>250</b>	Other			

#### Provider Life Cycle Status

No.	Provider Life Cycle Status	Description
<b>1</b>	Under Construction	The Provider Infrastructure is under construction.
<b>2</b>	Operational	The Provider Infrastructure is constructed and all operations are being offered.
<b>3</b>	Being Upgraded	The Provider Infrastructure is currently being upgraded. It is probable that many services are in containment or unavailable.
<b>4</b>	Other	

#### Provider Network

This list is based on a MERIL result.

No.	Provider Networks	Changes v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
1	4M Association (4M)	New	New	Updated
2	African Archeologists Association (AAA)			Updated
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)			Updated
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)			Updated
11	Advanced MEMS For RF and Millimeter Wave Communications (AMICOM)			Updated
12				Deleted
13	Analysis and Experimentation on Ecosystems (ANAEE)			Updated
14				Deleted
15	Animal Health and Welfare ERA-Net (ANIHWA)			
16	Alliance for Permanent Access to the Records of Science Network (APARSEN)			Updated
17	Asociación de Empresas de Energías Renovables (APPA Marina)			Updated



<b>18</b>	AQUAculture infrastructures for EXCELlence in European fish research towards 2020 (AQUAEXCEL)			Updated
<b>19</b>	Support the sustainable development of aquaculture in the Mediterranean region (AQUAMED)			Updated
<b>20</b>	CEH Aquatic Mesocosm Facility (CAMF)			Updated
<b>21</b>	International network for capacity building for the control of emerging viral vector borne zoonotic diseases (ARBO-ZOONET)			Updated
<b>22</b>	Asia-Europe Sustainable Connectivity Scientific Conference (ASEM)			Updated
<b>23</b>				Deleted
<b>24</b>	Association of European Marine Biological Laboratories Expanded (ASSEMBLE)			Updated
<b>25</b>	Advanced Methods and Tools for Handling and Assembly in Microtechnology (ASSEMIC)			Updated
<b>26</b>	Association of International Research and Development Centers for Agriculture (AIRCA)			Updated
<b>27</b>	Assessment, STRategy And Risk Reduction for Tsunamis in Europe (ASTARTE)			Updated
<b>28</b>	Astroynamics Network (ASTRONET)			Updated
<b>29</b>	Astroparticle Physics European Coordination (ApPEC)			
<b>30</b>	Atlantic Network of Geodynamical and Space Stations (REAGE)			
<b>31</b>	Austrian Centre for Scientific Computing (ACSC)			
<b>32</b>	Baseline Surface Radiation Network (BSRN)			
<b>33</b>	Berlin-Brandenburg Institute of Advanced Biodiversity Research (BBIB)			Updated
<b>34</b>	Biobanking and BioMolecular resources Research Infrastructure – European Research Infrastructure Consortium (BBMRI-ERIC)			Updated
<b>35</b>				Deleted
<b>36</b>				Deleted

37	Bio-based Industries Consortium (BIC)			
38	Biocenter Finland (BF)			Updated
39	Biodiversity Research Network (ALTER-Net)			
40	Biological Alert Laboratories Network, Spain (RELAB)			
41	Biomass Research Infrastructure for Sharing Knowledge (BRISK)			
42				Deleted
43	Biological Nuclear Magnetic Resonance (Bio-NMR)			Updated
44	Biobank Standardisation and Harmonisation for Research Excellence in the European Union (BioSHaRE-EU)			Updated
45	Transnational access and enhancement of integrated Biological Structure determination at synchrotron X-ray radiation facilities (BioStruct-X)			Updated
46	European Botanic Gardens Consortium International (BGCI)			Updated
47				Deleted
48	Budapest Neutron Centre (BNC)			Updated
49	Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observation (CALIPSO)			Updated
50	Connecting Archaeology and Architecture in Europe (CARARE)			Updated
51	Coordinating Systems Medicine across Europe (CASyM)			Updated
52	Census Data Open Linked (CEDAR)			
53				Deleted
54	Center for Organelle Research (CORE)			
55	Central European Research Infrastructure Consortium (C-ERIC)			Updated
56				Deleted
57	European Research Infrastructure for Language Resources and Technology (CLARIN)			Updated

<b>58</b>	Development of european pilot network of stations for observing cloud profiles (CLOUD-NET)			Updated
<b>59</b>	Cross National Equivalent File (CNEF)			Updated
<b>60</b>	Cohort and Longitudinal Studies Enhancement Resources (CLOSER)			Updated
<b>61</b>	Collaboration to Clarify the Costs of Curation (4C)			
<b>62</b>	Collections Policy Board (CPB)			
<b>63</b>	Comité Polar Español (CPE)			
<b>64</b>	Cancer Organoids Multiplexed Screening in Microfluidic Textile chips (COMMIT)			Updated
<b>65</b>	Committee Research with Neutrons (KFN)			
<b>66</b>	Common Access to Biotechnological Resources and Information (CABRI)			
<b>67</b>				Deleted
<b>68</b>				Deleted
<b>69</b>	Consortium of European Social Science Data Archives (CESSDA)			
<b>70</b>	Consortium of European Taxonomic Facilities (CETAF)			
<b>71</b>	Cooperative Research Ships (CRS)			
<b>72</b>	Coordinated Access to Lightsources to Promote Standards and Optimization (CALIPSO)			
<b>73</b>	Coordinated Research Infrastructures Building Enduring Life-Science Services (CORBEL)			
<b>74</b>				Deleted
<b>75</b>	Communication and Policy development for Research Infrastructures in Europe (CoPoRI)			Updated
<b>76</b>	The inter-university core facility network (IcoFNET)			Updated
<b>77</b>	Council for the Development of Social Science Research in Africa (CODESRIA)			
<b>78</b>	Council of Managers of National Antarctic Programs (COMNAP)			

<b>79</b>	Citizenship, Recovery and Inclusive Society Partnership (CRISP)			Updated
<b>80</b>	Cultural Heritage Advanced Research Infrastructures (CHARISMA)			
<b>81</b>	European Data Centre Association (EUDCA)			Updated
<b>82</b>				Deleted
<b>83</b>	German Scientific Library Services and Information Systems (DFG LIS)			Updated
<b>84</b>	Digital Research Infrastructure for Arts and Humanities (DARIAH)			
<b>85</b>				Deleted
<b>86</b>				Deleted
<b>87</b>	Dutch Techcentre for Life Sciences (DTL)			Updated
<b>88</b>	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)			Updated
<b>89</b>	European Advanced Translational Research Infrastructure in Medicine (EATRIS)			Updated
<b>90</b>	Creating conditions for persistence of biodiversity in the face of climate change (EcoChange)			Updated
<b>91</b>	European Clinical Research Infrastructures Network - Integrating Activity (ECRIN-IA)			Updated
<b>92</b>	Biology and control of vector-borne infections in Europe (EDENEXT)			Updated
<b>93</b>	European Facility for Advanced Seismic Testing (E-FAST)			Updated
<b>94</b>	European Fusion Development Agreement (EFDA)			Updated
<b>95</b>	European Holocaust Research Infrastructure (EHRI)			Updated
<b>96</b>	European Science Teachers Initiative (ESTI - EIROforum)			Updated
<b>97</b>				Deleted
<b>98</b>	European Marine Biological Resource Centre (EMBRC)			Updated
<b>99</b>	European Magnetic Field Laboratory (EMFL)			Updated

<b>100</b>	European Network for Diagnostics of Imported Viral Diseases (ENIVD)			Updated
<b>101</b>	Entreprise Europe Network (EEN)			Updated
<b>102</b>	Environmental Research Infrastructures (ENVRI)			Updated
<b>103</b>	EPIZONE European Research Group (ERG)			
<b>104</b>				Deleted
<b>105</b>	European Technology Platform on Smart Systems Integration (EpoSS)			Updated
<b>106</b>	Association of European Research Establishments in Aeronautics (EREA)			Updated
<b>107</b>	European Research Infrastructure for Heritage Science Preparatory Phase (E-RIHS)			Updated
<b>108</b>	European Research Infrastructure on Highly Pathogenic Agents (ERINHA)			Updated
<b>109</b>	European Reference Network for Critical Infrastructure Protection (ERNICIP)			Updated
<b>110</b>	European Sequencing and Genotyping Infrastructure (ESGI)			Updated
<b>111</b>	European Society for the study of Human Evolution (ESHE)			Updated
<b>112</b>	Advanced Energy STorage and Regeneration System for Enhanced Energy Management (ESTEEM)			Updated
<b>113</b>	European Strategic Wind Tunnels Improved Research Potential (ESWIRP)			Updated
<b>114</b>	Enabling the European Nanomedicine Area (NANOMED)			Updated
<b>115</b>				Deleted
<b>116</b>	Supporting environmental, nature conservation and climate action projects throughout the EU (EU-Life)			Updated
<b>117</b>	e-Infrastructure in the Mediterranean region dedicated for research and educational use (EUMEDCONNECT)			Updated
<b>118</b>	European Infrastructure of Open Screening Platforms for Chemical Biology (EU-OPENSREEN)			Updated

<b>119</b>	European Network of Freshwater Research Organisations (EurAqua)			Updated
<b>120</b>	European Atomic Energy Community (Euratom)			Updated
<b>121</b>	European rail research network of excellence (EUR <sup>2</sup> EX)			Updated
<b>122</b>	Research infrastructure for imaging technologies in biological and biomedical sciences (Euro-BioImaging)			Updated
<b>123</b>	Integration of European Simulation Chambers for Investigating Atmospheric Processes (EUROCHAMP)			Updated
<b>124</b>	Activities of the Roadmap to Fusion during Horizon 2020 through a Joint programme of the members of the EUROfusion consortium (EUROfusion)			Updated
<b>125</b>	European Aerosol Research Lidar Network (EARLINET)			
<b>126</b>	European Aquaculture Technology and Innovation Platform (EATIP)			
<b>127</b>	European Association for Solar Telescopes (EAST)			
<b>128</b>	European Cancer Organisation (ECCO)			
<b>129</b>	European Commission for the control of Foot and Mouth Disease (EuFMD)			
<b>130</b>	European Consortium for Ocean Research Drilling (ECORD)			
<b>131</b>	European Coordination for Accelerator Research & Development (EUCARD)			Updated
<b>132</b>	European Culture Collections' Organisation (ECCO)			
<b>133</b>	European Data Infrastructure (EUDAT)			
<b>134</b>	European Energy Research Alliance (EERA)			Updated
<b>135</b>	European Facility for Airborne Research (EUFAR)			
<b>136</b>	European Federation for Primatology (EFP)			
<b>137</b>	European Grid Infrastructure (EGI)			

<b>138</b>	European Infrastructure of Open Screening Platforms for Chemical Biology (EU-OPENSREEN)			Updated
<b>139</b>	European Institute for Biomedical Imaging Research (EIBIR)			
<b>140</b>	European Labour History Network (ELHN)			
<b>141</b>	European Librarians in African Studies (ELIAS)			
<b>142</b>	European Life Sciences Infrastructure For Biological Information (ELIXIR)			Updated
<b>143</b>	European Light Microscopy Initiative (ELMI)			
<b>144</b>	European Molecular Biology Network (EMBnet)			
<b>145</b>	European Monitoring Agency for Drugs and Drug Addition (EMCDDA)			
<b>146</b>	European Mouse Mutant Archive (EMMA)			
<b>147</b>	European Multidisciplinary Seafloor Observation (EMSO)			
<b>148</b>	European Network for Animal Disease and Infectiology Research Facilities (NADIR)			
<b>149</b>	European Network of Marine Research Institutes and Stations (MARS)			
<b>150</b>	European Network of Vaccine Research and Development (TRANSVAC2)			Updated
<b>151</b>	European Nuclear Science and Applications Research (ENSAR)			
<b>152</b>	European Plant Phenotyping Network (EPPN)			
<b>153</b>	European Plate Observing System (EPOS)			
<b>154</b>	European Polar Board (EPB)			
<b>155</b>	European Research Vessels Operators (ERVO)			
<b>156</b>	European Social Survey Sustainability (ESS-SUSTAIN)			Updated
<b>157</b>	European Technology Platform for High Performance Computing (ETP4HPC)			
<b>158</b>	European VLBI Network (EVN)			

<b>159</b>	European Windtunnel Association (EWA)			Updated
<b>160</b>	European, Middle Eastern and African Society for Biopreservation and Biobanking (ESBB)			
<b>161</b>	Platform for Digital Cultural Heritage (Europeana)			Updated
<b>162</b>	EUROPLANET 2020 Research Infrastructure (EPN2020-RI)			Updated
<b>163</b>	EUROPEAN SOLAR RESEARCH INFRASTRUCTURE FOR CONCENTRATED SOLAR POWER (EU-SOLARIS)			Updated
<b>164</b>	European Vasculitis Study Group (EUVAS)			Updated
<b>165</b>	Event Horizon Telescope (EHT)			Updated
<b>166</b>				Deleted
<b>167</b>	European VLBI Network (EVN)			Updated
<b>168</b>	Experimentation in Ecosystem Research (ExpeER)			
<b>169</b>	Federation of European Neurosciences (FENS)			
<b>170</b>	European research infrastructure for imaging technologies in biological and biomedical sciences (BioImaging Network)			Updated
<b>171</b>	Food and Agricultural Organisation of the United Nations (FAO)			
<b>172</b>	The European Fusion Education Network (FUSENET)			Updated
<b>173</b>	GAW Aerosol Lidar Observations Network (GALION)			Updated
<b>174</b>	Gauss Centre for Supercomputing (GCS)			Updated
<b>175</b>	Global Atmosphere Watch Programme (GAW)			Updated
<b>176</b>	GBIF Nodes Network			Updated
<b>177</b>	Global Climate Observing System (GCOS)			Updated
<b>178</b>	Network of French researchers involved in chemical biology approaches (GDR ChemBioScreen)			Updated



<b>179</b>	Pan-European Research and Education Network (GÉANT)			Updated
<b>180</b>	National Genome Research Network (NGFN)			Updated
<b>181</b>				Deleted
<b>182</b>	German Consortium for Translational Cancer Research (DKTK)			
<b>183</b>	German Data Forum (RatSWD)			Updated
<b>184</b>	Global Alliance for Zika Virus Control and Prevention (ZIKAlliance)			Updated
<b>185</b>	Global Atmosphere Watch Programme-cooperation Germany, Austria, Switzerland (GAW-DACH)			
<b>186</b>	Global Biodiversity Information Facility (GBIF)			
<b>187</b>	Global Earth Observation System of Systems (GEOSS)			
<b>188</b>	Global Genome Biodiversity Network (GGBN)			
<b>189</b>	Global Lake Ecology Observatory Network (GLEON)			
<b>190</b>	The Global mm-VLBI Array (GMVA)			Updated
<b>191</b>	Global Network for Taxonomy (BioNET)			
<b>192</b>	Global Mercury Observation System (GMOS)			Updated
<b>193</b>	European GNSS Service Centre (GSC)			Updated
<b>194</b>	Global Ocean Observing System (GOOS)			Updated
<b>195</b>	Leibniz Library Network for Research Information consortium (Goportis)			Updated
<b>196</b>	GCOS Reference Upper-Air Network (GRUAN)			Updated
<b>197</b>	Grupo Interinstitucional y Comunitario de Pesca Artesanal del Pacífico Chocoano (GIPCA)			Updated
<b>198</b>	Gentle User Interfaces for Disabled and Elderly Citizens (GUIDE)			Updated

<b>199</b>	Integrating European Infrastructure to support science and development of Hydrogen- and Fuel Cell Technologies towards European Strategy for Sustainable, Competitive and Secure Energy (H2FC)			Updated
<b>200</b>				Deleted
<b>201</b>	Helmholtz Centre for Infection Research (HZI)			
<b>202</b>				Deleted
<b>203</b>	Dresden High Magnetic Field Laboratory (Hochfeld-Magnetlabor Dresden, HLD)			Updated
<b>204</b>	Human Brain Project (HBP)			Updated
<b>205</b>	Human Proteome Project (HUPO)			
<b>206</b>	HUMAN centred design for Information Society Technologies (Humanist)			Updated
<b>207</b>				Deleted
<b>208</b>	Highly-complex and networked control systems (HYCON2)			Updated
<b>209</b>	Complex Interaction of Water with Environmental Elements, Sediment, Structures and Ice (Hydralab)			Updated
<b>210</b>	Ibero-american network for the study of carotenoids as food ingredients (IBERCAROT)			
<b>211</b>	Inclusive Blockchain Insurance using Space Assets (IBISA)			Updated
<b>212</b>	Ice Age Europe (ICEAGE)			Updated
<b>213</b>	International Council of Museums (ICOM)			Updated
<b>214</b>				Deleted
<b>215</b>	International Council for Scientific and Technical Information (ICSTI)			Updated
<b>216</b>				Deleted
<b>217</b>	International Forum for Aviation Research Support Action (IFARS)			Updated
<b>218</b>				Deleted

<b>219</b>	International Long Term Ecological Research (ILTER)			Updated
<b>220</b>	Infrastructure for NMR, EM and X-rays for translational research (iNEXT)			Updated
<b>221</b>	Infrafrontier The European infrastructure for phenotyping and archiving of model mammalian genomes (INFRAFRONTIER)			Updated
<b>222</b>	INfraStructure in Proton International Research (INSPIRE)			Updated
<b>223</b>	Integrated non-CO2 Greenhouse Gas Observing Systems (InGOS)			Updated
<b>224</b>				Deleted
<b>225</b>	Integrated Carbon Observation System (ICOS)			
<b>226</b>	Integrated Infrastructure Initiative for Neutron Scattering and Muon Spectroscopy (NMI3)			
<b>227</b>	Intergovernmental Oceanographic Commission/International Oceanographic Data and Information Exchange (IOC/IODE)			
<b>228</b>	Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES)			
<b>229</b>	Internal Magnets for DNP (DNPMAG)			
<b>230</b>	International Association of Labour History Institutions (IALHI)			
<b>231</b>				Deleted
<b>232</b>	International Barcode of Life (IBOL)			
<b>233</b>	International Cancer Genome Consortium (ICGC)			
<b>234</b>	International Council for the Exploration of the Sea (ICES)			
<b>235</b>	International Council of Museums (ICOM)			
<b>236</b>	International Council on Archives (ICA)			
<b>237</b>	International Energy Agency (IEA)			Updated
<b>238</b>	International Federation of Data Organizations (IFDO)			Updated
<b>239</b>	International Gravity Reference System (IGRS)			

<b>240</b>	International Mouse Knock-out Consortium (IKMC)			
<b>241</b>				Deleted
<b>242</b>	International Mouse Phenotyping Consortium (IMPC)			
<b>243</b>	International Mouse Strain Resources (IMSR)			
<b>244</b>	International Network for Terrestrial Research and Monitoring in the Arctic (INTERACT)			
<b>245</b>	International Network of Ground-Based Microwave Radiometers (MWRnet)			
<b>246</b>	International Ocean Drilling Program (IODP)			
<b>247</b>	International Panel Survey Methods Workshops (IPSMW)			Updated
<b>248</b>	International Primatological Society (IPS)			Updated
<b>249</b>	International programme of biodiversity science (DIVERSITAS)			
<b>250</b>	International Research Institute of Stavanger (IRIS)			
<b>251</b>	International Research Ship Operators (IRSO)			
<b>252</b>	International Society for Atmospheric Research using Remotely Piloted Aircraft (ISARRA)			Updated
<b>253</b>	International Society for Biological and Environmental Repositories (ISBER)			
<b>254</b>	International Tokamak Physics Activity (ITPA)			
<b>255</b>	International Towing Tank Conference (ITTC)			
<b>256</b>	International Virtual Observatory Alliance (IVOA)			Updated
<b>257</b>	International VLBI Service for Geodesy & Astrometry (IVS)			
<b>258</b>	Infrastructure for Systems Biology – Europe (ISBE)			Updated
<b>259</b>	International Society for Biological and Environmental Repositories (ISBER)			Updated
<b>260</b>	International Society of Nephrology (ISN)			Updated
<b>261</b>	Innovation Technologies and Applications for Coastal Archaeological sites (ITACA)			Updated

<b>262</b>	International Union for Conservation of Nature / Species Survival Commission (IUCN/SSC)			Updated
<b>263</b>	International Virtual Observatory Alliance (IVOA)			Updated
<b>264</b>	Kernel-Based ARchitecture for safetY-critical cONtrol (KARYON)			Updated
<b>265</b>	Innovative Radiopharmaceuticals in Oncology and Neurology (Labex IRON)			Updated
<b>266</b>				Deleted
<b>267</b>	Large Binocular Telescope (LBT)			
<b>268</b>	Critical success factors for fish larval production in European Aquaculture: a multidisciplinary network (LarvaNET)			Updated
<b>269</b>	Integrated Initiative of European Laser Research Infrastructures (LASERLAB-EUROPE)			Updated
<b>270</b>	Lasers for Applications at Accelerator facilities for ion beam generation, acceleration and diagnostics (LA <sup>3</sup> NET)			Updated
<b>271</b>				Deleted
<b>272</b>	League of European Accelerator-based Photon Sources (LEAPS)			Updated
<b>273</b>	European Distributed Information Technology for Health Care (EDITH)			Updated
<b>274</b>	e-Infrastructure for Biodiversity and Ecosystem Research (LifeWatch)			Updated
<b>275</b>	Laboratoire National de Champs Magnétiques Intenses (LNCMI)			Updated
<b>276</b>	Low Voltage Agreement Group (LOVAG)			
<b>277</b>	European Long-Term Ecosystem and socio-ecological Research Infrastructure (eLTER)			Updated
<b>278</b>				Deleted
<b>279</b>	MANagement of Security information and events in Service InFrastructures (MASSIF)			
<b>280</b>	Marine Renewables Infrastructure Network for Emerging Energy Technologies (MARINET)			Updated
<b>281</b>	Mediterranean Operational Network for the Global Ocean Observing System (MONGOOS)			Updated

<b>282</b>	Network of leading MESOCosm facilities to advance the studies of future AQUatic ecosystems from the Arctic to the Mediterranean (MESOAQUA)			Updated
<b>283</b>	Open virtual network for aquatic mesocosm facilities worldwide (MESOCOSM)			Updated
<b>284</b>	Meson Physics in Low-Energy QCD (MesonNet)			
<b>285</b>	Organization devoted to the development of metabolism-based research (Metabolomics Society)			Updated
<b>286</b>	Open and secure network of repositories for sharing and exchanging language data, tools and related web services (META-SHARE)			Updated
<b>287</b>	Open Technology for Digitalisation (Meters & More)			Updated
<b>288</b>	Microbial Resources Research Infrastructure (MIRRI)			
<b>289</b>	Millennium Seed Bank (MSB) Partnership			Updated
<b>290</b>	Micro-and NANotechnology Manufacturing (MINAM)			Updated
<b>291</b>	Musical Instrument Museums Online (MIMO)			
<b>292</b>	Prototype Operational Continuity for the GMES Ocean Monitoring and Forecasting Service (MyOcean2)			Updated
<b>293</b>	A network for bringing NANOTEchnologies TO LIFE (NANO2LIFE)			Updated
<b>294</b>	Nanostructured and Functional Polymer-based Materials and Nanocomposites (NANOFUN-POLY)			Updated
<b>295</b>	A cross-ETP Coordination Initiative on nanotechnology (NANOofutures)			Updated
<b>296</b>				Deleted
<b>297</b>				Deleted
<b>298</b>	National Genome Research Network (NGFN)			
<b>299</b>	National Network for Electron Microscopy (RNME)			
<b>300</b>	Network for the Detection of Atmospheric Composition Change (NDACC)			Updated

<b>301</b>	A Network of Excellence for Advanced Road cooperative traffic management in the Information Society (NEARCTIS)			Updated
<b>302</b>	Network for Digital Methods in the Arts and Humanities (NeDiMAH)			
<b>303</b>				Deleted
<b>304</b>	Network of Aquaculture Centres in Central-Eastern Europe (NACEE)			
<b>305</b>	Network of European CEntrifige for Research (NECER)			
<b>306</b>				Deleted
<b>307</b>				Deleted
<b>308</b>	Networking Lake Observatories in Europe (NETLAKE)			
<b>309</b>	Federation of European Neuroscience Societies (FENS)			Updated
<b>310</b>	Neutron scattering and Muon Spectroscopy Integrating Infrastructure Initiative (NMI3)			Updated
<b>311</b>	New operational steps towards an alliance of European research fleets (EUROFLEETS2)			
<b>312</b>	Towards Game-changer Service Operation Vessels for Offshore Windfarms (NEXUS)			Updated
<b>313</b>				Deleted
<b>314</b>	Nordic Microscopy Society (SCANDEM)			
<b>315</b>	Nordic Nanolab Network (NNN)			Updated
<b>316</b>	Nuclear Physics Network (NuPNET)			
<b>317</b>	Ocean Facilities Exchange Group (OFEG)			
<b>318</b>				Deleted
<b>319</b>	Open Access Infrastructure for Research in Europe (OpenAIRE)			
<b>320</b>	Open Planets Foundation (OPF)			Updated
<b>321</b>	Optical Infrared Coordination Network for Astronomy (OPTICON)			Updated

<b>322</b>	Organisation of European Cancer Institutes (OECI)			
<b>323</b>	Parelsnoer Institute (PSI)			Updated
<b>324</b>	Partnership for European Environmental Research (PEER)			
<b>325</b>	Design for Micro & Nano Manufacture (PATENT-DfMM)			Updated
<b>326</b>	PATrimoines matériels : Réseau d'Instrumentation Multisites Equipex (PATRIMEX)			
<b>327</b>	Photonics community of industry and research organisations (PHOTONICS21)			Updated
<b>328</b>	Polar barcode of life (IBOL)			Updated
<b>329</b>	Partnership for Advanced Computing (PRACE)			Updated
<b>330</b>	PoweRline Intelligent Metering Evolution Alliance (PRIME)			Updated
<b>331</b>	Proteomics Research Infrastructure Maximising knowledge EXchange and access (PRIME-XS)			Updated
<b>332</b>	Protein Production and Purification Platforms in Europe (P4EU)			
<b>333</b>	Proteomics and Metabolomics Core Facility (PROMEC)			
<b>334</b>	Carlos III Networked Proteomics Platform (ProteoRed-ISCIH)			Updated
<b>335</b>	Public Population Project in Genomics and Society (P <sup>3</sup> G)			
<b>336</b>	An international network of 50 CubeSats for multi-point, in-situ measurements in the lower thermosphere and re-entry research (QB50)			Updated
<b>337</b>				Deleted
<b>338</b>	Belgian Network for Radiation Applications in Healthcare (Rad4med)			Updated
<b>339</b>	Advanced Radio Astronomy in Europe (RadioNet)			
<b>340</b>	Rede de Remediação e Reabilitação de Ambientes Degradados (READE)			Updated
<b>341</b>	International Excellence Research Network (REBT)			Updated
<b>342</b>				Deleted



<b>343</b>	Research Data Alliance (RDA)			Updated
<b>344</b>	Research infrastructures for the control of insect vector-borne diseases (Infravec2)			Updated
<b>345</b>	Resource Network Supporting Academic Chemical Biology Research (ChemBioNet)			Updated
<b>346</b>	Flagship Project is one of the National Research Programmes funded by the Italian Ministry of University and Research (RITMARE)			
<b>347</b>				Deleted
<b>348</b>	European Association for Transactional analysis (EATA)			Updated
<b>349</b>	SatNav Network			
<b>350</b>	Scalable, Secure Storage of Biobank Data (BiobankCloud)			
<b>351</b>	Scandinavian Dialect Syntax Network (ScanDiaSyn)			Updated
<b>352</b>	Scientific Collections International (SciColl)			Updated
<b>353</b>	Science and Applications of ultrafast and ultraintense lasers (SAUUL)			
<b>354</b>	World class Science and Innovation with Neutrons in Europe (SINE)			Updated
<b>355</b>	ScienceLink Network			
<b>356</b>	Standard Conference on Library Materials on Africa (SCOLMA)			Updated
<b>357</b>	Pan-European infrastructure for ocean & marine data management (SeaDataNet)			Updated
<b>358</b>	Security for Future Networks (SecFuNet)			Updated
<b>359</b>	Security for smart Electricity GRIDs (SEGRID)			Updated
<b>360</b>	Seismic Engineering Research Infrastructures for European Synergies (SERIES)			
<b>361</b>	Seismology and Earthquake Engineering Research Infrastructure Alliance for Europe (SERA)			Updated
<b>362</b>				Deleted
<b>363</b>				Deleted

<b>364</b>				Deleted
<b>365</b>	Square Kilometer Array (SKA)			Updated
<b>366</b>	Society for Neuroscience (SfN)			Updated
<b>367</b>	Society for the Preservation of Natural History Collections (SPNHC)			
<b>368</b>	Society for Tropical Ecology (GTO)			Updated
<b>369</b>	Society of Primatology (ASP)			Updated
<b>370</b>				Deleted
<b>371</b>	High-Resolution Solar Physics Network (SOLARNET)			Updated
<b>372</b>	Social Platform for Holistic Heritage Impact Assessment (SOPHIA)			Updated
<b>373</b>	Scalable privacy preserving intelligence analysis for resolving identities (SPIRIT)			Updated
<b>374</b>	State-Trait Anxiety Inventory (STAI)			Updated
<b>375</b>	Standing Committee Research Data Infrastructure (FDI)			
<b>376</b>	Stations at High Altitude for Research on the Environment (SHARE)			
<b>377</b>				Deleted
<b>378</b>	Strange Particles in Hadronic Environment Research in Europe (SPHERE)			
<b>379</b>	Cooperation between Superconductivity and Magnetism in Mesoscopic systems (SuperMAG)			Updated
<b>380</b>				Deleted
<b>381</b>	Swiss Institute for Art Research (SIK-ISEA)			
<b>382</b>	Information Network of European Natural History Collections (SYNTHESYS)			Updated
<b>383</b>	Trustworthy Clouds Privacy and Resilience for Internet-scale Critical Infrastructure (TClouds)			Updated
<b>384</b>	Biodiversity Information Standards (TDWG)			Updated

<b>385</b>	Teide and Roque de los Muchachos Observatories (ORM)			Updated
<b>386</b>	Telescopio Nazionale Galileo (TNG)			
<b>387</b>				Deleted
<b>388</b>				Deleted
<b>389</b>				Deleted
<b>390</b>	Towards a joint European research infrastructure network for coastal observatories (JERICO)			Updated
<b>391</b>	Towards an Alliance of European Research Fleets (EUROFLEETS)			
<b>392</b>	Transnational Access to MAMI (MAMI)			
<b>393</b>	Integrative European Research Infrastructure project to integrate, develop and improve major forest genetics and forestry research (TREES4FUTURE)			Updated
<b>394</b>	UK Environmental Change Network (ECN)			
<b>395</b>	Veterinary Biocontained facility Network for excellence in animal infectious disease research and experimentation (VetBioNet)			Updated
<b>396</b>				Deleted
<b>397</b>	Virtual Atomic and Molecular Data Center (VAMDC)			
<b>398</b>	VISION Advanced Infrastructure for Research (VISIONAIR)			Updated
<b>399</b>	VLBI2010 Global Observing System (VGOS)			
<b>400</b>	Virtual Physiological Human Network of Excellence (VPH)			Updated
<b>401</b>	Worldwide e-Infrastructure for NMR and structural biology (WeNMR)			Updated
<b>402</b>	Ultrafast Nanooptics Research Group - Wigner Research Centre for Physics (UNRG)			Updated
<b>403</b>				Deleted
<b>404</b>	World Data Centre for Microorganisms (WDCM)			Updated
<b>405</b>	World Data System (WDS)			

<b>406</b>	World Federation for Culture Collections (WFCC)			
<b>407</b>	World Organisation for Animal Health (OIE)			
<b>408</b>	WorldWide LHC Computing Grid (wLCG)			
<b>409</b>	Word Wide NMR (WW-NMR)			Updated
<b>410</b>	Zoonoses Anticipation and Preparedness Initiative (ZAPI)			Updated
<b>411</b>	Other			

#### Provider Structure Type

No.	Provider Type	Description	Changes v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
<b>1</b>	Single-sited	The Provider has one main physical location for users.	<b>New</b>	<b>New</b>	
<b>2</b>	Distributed	The Provider has multiple physical locations but a unified management structure and a single coordination centre.			
<b>3</b>	Mobile	The Provider is changing its physical location on a regular basis (e.g., satellites, research vessels).			
<b>4</b>	Virtual	The Provider is exclusively an electronic resource/service.			
<b>5</b>	Other				

#### Provider ESFRI Domain

No.	ESFRI Domain	Description	Changes v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
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<b>1</b>	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 CO2 emissions. For the EU, the reduction of CO2 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.	<b>New</b>	<b>New</b>	
<b>2</b>	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.			
<b>3</b>	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.			
<b>4</b>	Physical Sciences & Engineering	Research Infrastructures are integral part of the day-to-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.			
<b>5</b>	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.			

<b>6</b>	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.			
<b>7</b>	Other				

#### Provider ESFRI Type

No.	Provider ESFRI type	Changes v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
<b>1</b>	RI is a node of an ESFRI project	<b>New</b>	<b>New</b>	
<b>2</b>	RI is an ESFRI project			
<b>3</b>	RI is an ESFRI landmark			
<b>4</b>	Not an ESFRI project or landmark			
<b>5</b>	Other			

#### Provider MERIL Scientific Domain / Subdomain

This list is based on a MERIL result.

No.	Scientific Domain	No.	Scientific Subdomain	Description	Changes v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
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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.	New	New	
			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	<p>Collections of Biological Resources (e.g. Microorganisms, Biobanks and Seed Banks)</p>	<p>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</p>			
			4	<p>Bio-Informatics Facilities</p>	<p>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.</p>			



		<b>5</b>	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.			
		<b>6</b>	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.			
		<b>7</b>	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.			
		<b>8</b>	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 states 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.			

		<b>5</b>	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.			
		<b>6</b>	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.			
		<b>7</b>	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.			
		<b>8</b>	Other				
<b>3</b>	Earth and Environmental Sciences	<b>1</b>	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	<p>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.</p> <p>PHYSICAL: Museums, Galleries, Analogue audio/visual/multimedia collections, Archaeology, Anthropology and Ethnology Collections, Arts &amp; Art History Collections, Music and Instrument Collections, Datasets (e.g. analogue audio/visual/multimedia datasets).</p> <p>DIGITAL: Archaeology, Anthropology and Ethnology Collections, Arts &amp; Art History Collections, Digitised Manuscript Collections, Music and Instrument Collections, Virtual museums, Virtual galleries, Datasets.</p>			

		2	Repositories	<p>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.</p> <p>PHYSICAL: Analogue audio/visual/multimedia repositories, Archaeology, Anthropology and Ethnology Repositories, Arts &amp; Art History Repositories.</p> <p>DIGITAL: Data repositories (e.g. digital library), Archaeology, Anthropology and Ethnology Repositories, Arts &amp; Art History Repositories, Digitised Manuscript Repositories.</p>			
		3	Databases	<p>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 &amp; Art History Databases, History Databases, Digitised Manuscript Databases.</p>			

			4	Conceptual Models	<p>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.</p>			
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		5	Research Archives	<p>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.</p>			
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			<p><b>6</b>    Research Libraries</p>	<p>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.</p> <p>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</p>			
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				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	<p>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).</p> <p>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.</p>			
		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	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 v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
1	Basic research	New	New	
2	Applied research			

<b>3</b>	Technological development			
<b>4</b>	Other			

#### Provider Societal Grand Challenges

<b>No.</b>	<b>Provider Societal Grand Challenges</b>	<b>Changes v1.13 to v3.00</b>	<b>Changes v1.30 to v3.00</b>	<b>Changes v2.00 to v3.00</b>
<b>1</b>	Health, demographic change and wellbeing	<b>New</b>	<b>New</b>	
<b>2</b>	Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the Bioeconomy			
<b>3</b>	Secure, clean and efficient energy			
<b>4</b>	Smart, green and integrated transport			
<b>5</b>	Climate action, environment, resource efficiency and raw materials			
<b>6</b>	Europe in a changing world – inclusive, innovative and reflective societies			
<b>7</b>	Secure societies – protecting freedom and security of Europe and its citizens			
<b>8</b>	Other			



# EOSC Resource Profile

An EOSC Resource is an asset made available by means of the *EOSC system* and according to the *EOSC Rules of Participation* to *EOSC End-Users* to perform a process useful to deliver value in the context of the EOSC. *EOSC Resources* include Services, Data Sources, Research Products and any other asset. More definitions [here](#).

## EOSC Resource 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	Name	Brief and descriptive name of Resource as assigned by the Provider.	String (max 80)	1	Mandatory	Yes
ERP.BAI.2	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.3	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.4	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

<b>ERP.MRI.1</b>	<b>Description</b>	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 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.	String (max 1000)	1	Mandatory	Yes
<b>ERP.MRI.2</b>	<b>Tagline</b>	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
<b>ERP.MRI.3</b>	<b>Logo</b>	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
<b>ERP.MRI.4</b>	<b>Multimedia</b>	Link to video, screenshots or slides showing details of the Resource.	URL	Multiple	Optional	Yes
<b>ERP.MRI.5</b>	<b>Use Cases</b>	Link to use cases supported by this Resource.	URL	Multiple	Optional	Yes
<del><b>ERP.MRI.6</b></del>	<del><b>User Value</b></del>					
<del><b>ERP.MRI.7</b></del>	<del><b>User Base</b></del>					
<del><b>ERP.MRI.8</b></del>	<del><b>Service Options</b></del>					
<del><b>ERP.MRI.9</b></del>	<del><b>Service endpoint</b></del>					
<b>Classification Information</b>						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public

<b>ERP.CLI.1</b>	<b>Scientific Domain</b>	The branch of science, scientific discipline that is related to the Resource.	List of controlled values	Multiple	Mandatory	Yes
<b>ERP.CLI.2</b>	<b>Scientific Subdomain</b>	The subbranch of science, scientific subdiscipline that is related to the Resource.	List of controlled values	Multiple	Mandatory	Yes
<b>ERP.CLI.3</b>	<b>Category</b>	A named group of Resources that offer access to the same type of Resource or capabilities.	List of controlled values	Multiple	Mandatory	Yes
<b>ERP.CLI.4</b>	<b>Subcategory</b>	A named group of Resources that offer access to the same type of Resource or capabilities, within the defined Resource category	List of controlled values	Multiple	Mandatory	Yes
<b>ERP.CLI.5</b>	<b>Target Users</b>	Type of users/customers that commissions a Provider to deliver a Resource.	List of controlled values	Multiple	Mandatory	Yes
<b>ERP.CLI.6</b>	<b>Access Type</b>	The way a user can access the Resource (Remote, Physical, Virtual, etc.)	List of controlled values	Multiple	Optional	Yes
<b>ERP.CLI.7</b>	<b>Access Mode</b>	Eligibility/criteria for granting access to users (excellence-based, free-conditionally, free etc.)	List of controlled values	Multiple	Optional	Yes
<b>ERP.CLI.8</b>	<b>Tags</b>	Keywords associated to the Resource to simplify search by relevant keywords.	String (max 50)	Multiple	Optional	Yes
<b>ERP.CLI.9</b>	<b>Target customer tags</b>					
<b>Geographical and Language Availability Information</b>						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public



Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
<b>ERP.COL.7</b>	<b>First Name</b>	First Name of the Resource's contact person to be displayed at the portal.	String (max 20)	1	Optional	Yes
<b>ERP.COL.8</b>	<b>Last Name</b>	Last Name of the Resource's contact person to be displayed at the portal.	String (max 20)	1	Optional	Yes
<b>ERP.COL.9</b>	<b>Email</b>	Email of the Resource's contact person or a generic email of the Provider to be displayed at the portal.	Email	1	Mandatory	Yes
<b>ERP.COL.10</b>	<b>Phone</b>	Telephone of the Resource's contact person to be displayed at the portal.	String (max 20)	1	Optional	Yes
<b>ERP.COL.11</b>	<b>Position</b>	Position of the Resource's contact person to be displayed at the portal.	String (max 20)	1	Optional	Yes
<b>ERP.COL.12</b>	<b>Organisation</b>	The organisation to which the contact is affiliated	String (max 50)	1	Optional	Yes
<b>Other Contacts</b>						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
<b>ERP.COL.13</b>	<b>Helpdesk Email</b>	The email to ask more information from the Provider about this Resource.	Email	1	Mandatory	Yes
<b>ERP.COL.14</b>	<b>Security Contact Email</b>	The email to contact the Provider for critical security issues about this Resource.	Email	1	Mandatory	No
<del><b>ERP.COL.15</b></del>	<del><b>Service security name/group</b></del>					
<b>Maturity Information</b>						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
<b>ERP.MTI.1</b>	<b>Technology Readiness Level</b>	The Technology Readiness Level of the Resource (to be further updated in the context of the EOSC).	List of controlled values	1	Mandatory	Yes

<b>ERP.MTI.2</b>	<b>Life Cycle Status</b>	Phase of the Resource life-cycle.	List of controlled values:	1	Optional	Yes
<b>ERP.MTI.3</b>	<b>Certifications</b>	List of certifications obtained for the Resource (including the certification body).	String (max 100)	Multiple	Optional	Yes
<b>ERP.MTI.4</b>	<b>Standards</b>	List of standards supported by the Resource.	String (max 100)	Multiple	Optional	Yes
<b>ERP.MTI.5</b>	<b>Open Source Technologies</b>	List of open source technologies supported by the Resource.	String (max 100)	Multiple	Optional	Yes
<b>ERP.MTI.6</b>	<b>Version</b>	Version of the Resource that is in force.	String (max 10)	1	Optional	Yes
<b>ERP.MTI.7</b>	<b>Last Update</b>	Date of the latest update of the Resource.	Date (dd/mm/yyyy)	1	Optional	Yes
<b>ERP.MTI.8</b>	<b>Change Log</b>	Summary of the Resource features updated from the previous version.	String (max 1000)	Multiple	Optional	Yes
<del><b>ERP.MTI.9</b></del>	<del><b>Service Valid for</b></del>	<del>The date up to which the Description is valid.</del>	<del>Date (dd/mm/yyyy)</del>	<del>1</del>	<del>Optional</del>	<del>Yes</del>
<b>Dependencies Information</b>						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
<b>ERP.DEL.1</b>	<b>Required Resources</b>	List of other Resources required to use this Resource.	Resource IDs	Multiple	Optional	Yes
<b>ERP.DEL.2</b>	<b>Related Resources</b>	List of other Resources that are commonly used with this Resource.	Resource IDs	Multiple	Optional	Yes
<b>ERP.DEL.3</b>	<b>Related Platforms</b>	List of suites or thematic platforms in which the Resource is engaged or Providers (Provider groups) contributing to this Resource.	String (max 50)	Multiple	Optional	Yes

Attribution Information						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
<b>ERP.ATL.1</b>	<b>Funding Body</b>	Name of the funding body that supported the development and/or operation of the Resource.	List of controlled values	Multiple	Optional	Yes
<b>ERP.ATL.2</b>	<b>Funding Program</b>	Name of the funding program that supported the development and/or operation of the Resource.	List of controlled values	Multiple	Optional	Yes
<b>ERP.ATL.3</b>	<b>Grant/Project Name</b>	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
<b>ERP.MGI.1</b>	<b>Helpdesk Page</b>	The URL to a webpage to ask more information from the Provider about this Resource.	URL	1	Optional	Yes
<b>ERP.MGI.2</b>	<b>User Manual</b>	Link to the Resource user manual and documentation.	URL	1	Optional	Yes
<b>ERP.MGI.3</b>	<b>Terms Of Use</b>	Webpage describing the rules, Resource conditions and usage policy which one must agree to abide by in order to use the Resource.	URL	1	Optional	Yes
<b>ERP.MGI.4</b>	<b>Privacy Policy</b>	Link to the privacy policy applicable to the Resource.	URL	1	Optional	Yes
<b>ERP.MGI.5</b>	<b>Access Policy</b>	Information about the access policies that apply.	URL	1	Optional	Yes
<b>ERP.MGI.6</b>	<b>Service Level</b>	Webpage with the information about the levels of performance that a Provider is expected to deliver.	URL	1	Optional	Yes
<b>ERP.MGI.7</b>	<b>Training Information</b>	Webpage to training information on the Resource.	URL	1	Optional	Yes
<b>ERP.MGI.8</b>	<b>Status Monitoring</b>	Webpage with monitoring information about this Resource	URL	1	Optional	Yes

<b>ERP.MGI.9</b>	<b>Maintenance</b>	Webpage with information about planned maintenance windows for this Resource	URL	1	Optional	Yes
<del>ERP.MGI.10</del>	<del>Service Feedback</del>					
<del>ERP.MGI.11</del>	<del>Admin Manual</del>					
<b>Access and Order Information</b>						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
<b>ERP.AOI.1</b>	<b>Order Type</b>	Information on the order type (requires an ordering procedure, or no ordering and if fully open or requires authentication)	List of controlled values	1	Mandatory	Yes
<b>ERP.AOI.2</b>	<b>Order</b>	Webpage through which an order for the Resource can be placed	URL	1	Optional	Yes
<del>ERP.AOI.3</del>	<del>Open/Wide Access Service</del>					
<del>ERP.AOI.4</del>	<del>Service ordering</del>					
<b>Financial Information</b>						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
<b>ERP.FNI.1</b>	<b>Payment Model</b>	Webpage with the supported payment models and restrictions that apply to each of them	URL	1	Optional	Yes
<b>ERP.FNI.2</b>	<b>Pricing</b>	Webpage with the information on the price scheme for this Resource in case the customer is charged for.	URL	1	Optional	Yes



# EOSC Resource Onboarding Guide

Basic Information					
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
<b>ERP.BAI.0</b>	<b>ID</b>	openaire.zenodo	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.		Should examine whether the Resource has been already onboarded by any other Providers and and escalate to the EPOT for resolution.
<b>ERP.BAI.1</b>	<b>Name</b>	B2DROP	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. This attribute will be used in the search function to prioritise results.		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.

<b>ERP.BAI.2</b>	<b>Resource Organisation</b>	OpenAIRE			
<b>ERP.BAI.3</b>	<b>Resource Providers</b>	CERN, GRNET			
<b>ERP.BAI.4</b>	<b>Webpage</b>	<a href="http://www.Provider.eu/Resource-name">http://www.Provider.eu/Resource-name</a> or <a href="http://Resource-name.Provider.eu">http://Resource-name.Provider.eu</a>	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.
<b>Marketing Information</b>					
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation

<b>ERP.MRI.1</b>	<b>Description</b>	<p>B2SHARE is a user-friendly, reliable and trustworthy service that allows to store and share worldwide small-scale research data, results and metadata from diverse contexts and guarantees their long-term persistence. For the communities who need to guard against data loss, B2SAFE is a customer facing service that allow data replication and safe storage between geographically distributed centres in the EUDAT CDI. 900+ data Providers in Europe with different compatibility levels. Adoption in Latin America and Japan.</p>	<p>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 prioritise 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.</p>		<p>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.</p>
<b>ERP.MRI.2</b>	<b>Tagline</b>	<p>Store, share and access your files and their metadata on a global scale</p>	<p>Marketing specialists are encouraged to be engaged in order to come up with a catch phrase that can aid Resource dissemination and visibility.</p>		<p>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.</p>

<b>ERP.MRI.3</b>	<b>Logo</b>	<a href="https://Resource-name.Resource-Provider.eu/Symbol.jpg">https://Resource-name.Resource-Provider.eu/Symbol.jpg</a>	Provide URL of the Resource, which must be in https, 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 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.
<b>ERP.MRI.4</b>	<b>Multimedia</b>	<a href="http://Resource-name.Resource-Provider.eu/Multimedia">http://Resource-name.Resource-Provider.eu/Multimedia</a>	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.
<b>ERP.MRI.5</b>	<b>Use Cases</b>	<a href="https://zenodo.org/record/1490344#.XfR8p_yxWUk">https://zenodo.org/record/1490344#.XfR8p_yxWUk</a>	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.
<b>ERP.MRI.6</b>	<b>User Value</b>				
<b>ERP.MRI.7</b>	<b>User Base</b>				
<b>ERP.MRI.8</b>	<b>Service Options</b>				

<b>ERP.MRI.9</b>	<b>Service endpoint</b>				
<b>Classification Information</b>					
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
<b>ERP.CLI.1</b>	<b>Scientific Domain</b>	Natural Sciences	A second scientific domain should be used only if strictly needed		Verify that the provided value corresponds with names provided in the Resource's webpage.
<b>ERP.CLI.2</b>	<b>Scientific Subdomain</b>	Biological sciences			Verify that the provided value corresponds with names provided in the Resource's webpage.
<b>ERP.CLI.3</b>	<b>Category</b>	Aggregators & Integrators	A second category should be used only if strictly needed		Verify that the category chosen is logical to Resource description.
<b>ERP.CLI.4</b>	<b>Subcategory</b>	Software & Data			Verify that the subcategory chosen is logical to Resource description.
<b>ERP.CLI.5</b>	<b>Target Users</b>	Researchers, Research group, Research community, Research project, Research manager, Research organization, Innovators, Business	Target users should be defined as accurately and as inclusive as possible at the same time.		
<b>ERP.CLI.6</b>	<b>Access Type</b>	Virtual			

<b>ERP.CLI.7</b>	<b>Access Mode</b>	Excellence-based, peer reviewed			
<b>ERP.CLI.8</b>	<b>Tags</b>	Open Science, data, dataset, data archive, library, repository	For multi-word keywords, please use '-' to concatenate words. This field will be used in the search function to prioritise results.	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.
<b>ERP.CLI.9</b>	<b>Target customer tags</b>				
<b>Geographical and Language Availability Information</b>					
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
<b>ERP.GLA.1</b>	<b>Geographical Availability</b>	World		Validation using the ISO 3166-1 alpha-2 standard for the 2-letter codes for representing the languages.	
<b>ERP.GLA.2</b>	<b>Language Availability</b>	English		Validation using the ISO 3166-1 alpha-2 standard for the 2-letter codes for representing the languages.	
<b>Resource Location Information</b>					
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation

<b>ERP.RLI.01</b>	<b>Resource Geographic Location</b>				
<b>Contact Information</b>					
<b>Main Contact/Resource Owner</b>					
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
<b>ERP.COL1</b>	<b>First Name</b>	John			
<b>ERP.COL2</b>	<b>Last Name</b>	Smith			Check for obvious typos in the name. Confirm with a google search of the name and Provider
<b>ERP.COL3</b>	<b>Email</b>	<a href="mailto:john.smith@example.com">john.smith@example.com</a>		Validate e-mail address	
<b>ERP.COL4</b>	<b>Phone</b>	3021077755500		Validate for number (use separate input field for country prefixes)	
<b>ERP.COL5</b>	<b>Position</b>	Coordinator			
<b>ERP.COL6</b>	<b>Organisation</b>	Open Access Infrastructure for Research in Europe			
<b>Public Contact</b>					
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
<b>ERP.COL7</b>	<b>First Name</b>	Jack			

<b>ERP.COI.8</b>	<b>Last Name</b>	White			Check for obvious typos in the name. Confirm with a google search of the name and Provider
<b>ERP.COI.9</b>	<b>Email</b>	<a href="mailto:jack.white@example.com">jack.white@example.com</a>		Validate e-mail address	
<b>ERP.COI.10</b>	<b>Phone</b>	3021077755501		Validate for number (use separate input field for country prefixes)	
<b>ERP.COI.11</b>	<b>Position</b>	Manager			
<b>ERP.COI.12</b>	<b>Organisation</b>	Open Access Infrastructure for Research in Europe			
<b>Other Contacts</b>					
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
<b>ERP.COI.13</b>	<b>Helpdesk Email</b>	<a href="mailto:helpdesk@Provider.com">helpdesk@Provider.com</a>	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)
<b>ERP.COI.14</b>	<b>Security Contact Email</b>	<a href="mailto:secutiry@Provider.com">secutiry@Provider.com</a>	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)



<b>ERP.COL.15</b>	<b>Service security name/group</b>				
<b>Maturity Information</b>					
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
<b>ERP.MTI.1</b>	<b>Technology Readiness Level</b>	TRL8	<a href="https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/faq;keywords=/2890">https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/faq;keywords=/2890</a>	A Resource needs to have TRL $\geq$ 7 to be visible in the portal	Verify the provided TRL according to the Classification Appendix definitions
<b>ERP.MTI.2</b>	<b>Life Cycle Status</b>	Production			

<b>ERP.MTI.3</b>	<b>Certifications</b>	-	List of certifications obtained for the Resource (including the certification body and any certificate number if available).		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.
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<b>ERP.MTI.4</b>	<b>Standards</b>	ISO 15430, ISO 27000 Webdav	List of formal and externally recognised standards that this Resource conforms to.		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.
<b>ERP.MTI.5</b>	<b>Open Source Technologies</b>		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.		Check that the technologies mentioned/projects exist
<b>ERP.MTI.6</b>	<b>Version</b>	3.1	Only stable releases should be referenced.		
<b>ERP.MTI.7</b>	<b>Last Update</b>	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	
<b>ERP.MTI.8</b>	<b>Change Log</b>	Upgrade of user interface. Correction of minor bugs.	Clear, staccato sentences for each updated feature should be used.		

<b>ERP.MTL.9</b>	<b>Service Valid for</b>				
<b>Dependencies Information</b>					
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
<b>ERP.DEL.1</b>	<b>Required Resources</b>	List of Resource IDs	List any other EOSC Resources that your Resource requires in order to operate.		
<b>ERP.DEL.2</b>	<b>Related Resources</b>	List of Resource IDs	List any other EOSC Resources that you are aware of that your service can cooperate with.		
<b>ERP.DEL.3</b>	<b>Related Platforms</b>	E.g.: WeNMR Suite for DISVIS	List any platform this Resource is part of, e.g. a thematic portal for a certain community.		Verify via an internet search the name of the platform and its relevance with the Resource
<b>Attribution Information</b>					
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
<b>ERP.ATL.1</b>	<b>Funding Body</b>	European Commission	Publicity guidelines of each respective funding sources should be adhered to.		
<b>ERP.ATL.2</b>	<b>Funding Program</b>	Horizon 2020			
<b>ERP.ATL.3</b>	<b>Grant/Project Name</b>	OpenAIRE2020 (643410)			

Management Information					
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
<b>ERP.MGI.1</b>	<b>Helpdesk Page</b>	<a href="http://Resource-name.Resource-Provider.eu/Helpdesk">http://Resource-name.Resource-Provider.eu/Helpdesk</a> <a href="http://helpdesk.Resource-Provider.eu">http://helpdesk.Resource-Provider.eu</a>	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.
<b>ERP.MGI.2</b>	<b>User Manual</b>	<a href="http://Resource-name.provider.eu/UserManual">http://Resource-name.provider.eu/UserManual</a>	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	<a href="http://Resource-name.provider.eu/TermsOfUse">http://Resource-name.provider.eu/TermsOfUse</a>	<p>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.</p>	<p>Validate nominal URL, reject IP or other formats</p>	<p>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 publically accessible before the user logs in.</p> <p>If there is no Terms of Use / Acceptable Use Policy or the existing one appears of low quality, suggest the WISE Baseline AUP, see <a href="https://aarc-project.eu/wp-content/uploads/2019/03/AARC-I044-Implementers-Guide-to-the-WISE-Baseline-AUP.pdf">https://aarc-project.eu/wp-content/uploads/2019/03/AARC-I044-Implementers-Guide-to-the-WISE-Baseline-AUP.pdf</a></p>
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<b>ERP.MGI.4</b>	<b>Privacy Policy</b>		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.
<b>ERP.MGI.5</b>	<b>Access Policy</b>	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) <a href="http://www.prace-ri.eu/hpc-access">http://www.prace-ri.eu/hpc-access</a>	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.
<b>ERP.MGI.6</b>	<b>Service Level</b>	<a href="http://Resource-name.Provider.eu/SLA">http://Resource-name.Provider.eu/SLA</a>	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 <a href="https://wiki.eosc-hub.eu/display/EOSC/Service+Provider+Documentation">https://wiki.eosc-hub.eu/display/EOSC/Service+Provider+Documentation</a> .	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.

<b>ERP.MGI.7</b>	<b>Training Information</b>	<a href="http://Resource-name.Provider.eu/Training">http://Resource-name.Provider.eu/Training</a>	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.
<b>ERP.MGI.8</b>	<b>Status Monitoring</b>	<a href="http://Resource-name.Provider.eu/Monitoring">http://Resource-name.Provider.eu/Monitoring</a>	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.
<b>ERP.MGI.9</b>	<b>Maintenance</b>	<a href="http://Resource-name.Provider.eu/Maintenance">http://Resource-name.Provider.eu/Maintenance</a>	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.



<b>ERP.MGL10</b>	<b>Service Feedback</b>				
<b>ERP.MGL11</b>	<b>Admin Manual</b>				
<b>Access and Order Information</b>					
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
<b>ERP.AOI.1</b>	<b>Order Type</b>				
<b>ERP.AOI.2</b>	<b>Order</b>	<a href="https://gts.geant.net/login">https://gts.geant.net/login</a>		Validate nominal URL, reject IP or other formats	
<b>ERP.AOI.3</b>	<b>Open/Wide Access Service</b>				
<b>ERP.AOI.4</b>	<b>Service ordering</b>				
<b>Financial Information</b>					
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
<b>ERP.FNL.1</b>	<b>Payment Model</b>			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

<b>ERP.FNL.2</b>	<b>Pricing</b>	<a href="http://Resource-name.Provider.eu/Price">http://Resource-name.Provider.eu/Price</a>	Look at <a href="https://cloud.telekom.de/en/infrastructure/open-telekom-cloud/pricing">https://cloud.telekom.de/en/infrastructure/open-telekom-cloud/pricing</a> 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
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# EOSC Resource Transition Guide

Basic Information							
Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Transition v1.13 to v3.00	Changes v1.30 to v3.00 (EOSC-hub)	Transition v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Transition v2.00 to v3.00
<b>ERP.BAI.0</b>	<b>ID</b>	Change Attribute Name (old Service ID) Type added Definition updated	<i>Copy</i>		<i>ID should be compliant to the Providers' IDs</i>	Type added Definition updated	<i>Copy</i>
<b>ERP.BAI.1</b>	<b>Name</b>	Change Attribute Name (old Service Name)	<i>Copy</i>	Change Attribute Name (old Service Name) Change Type (old Single Line)	<i>Copy</i>	No change	<i>Copy</i>
<b>ERP.BAI.2</b>	<b>Resource Organisation</b>	Change Attribute Name (old Service Provider Name) Change Type (old Free text)	<i>Copy</i>	<b>New</b>	Default value <b>EPP.BAI.0</b>	Change Attribute Name (old Provider Name) <b>Change Multiplicity (old Multiple)</b>	<i>Keep only 1st Provider ID</i>
<b>ERP.BAI.3</b>	<b>Resource Providers</b>	<b>New</b>	Default value empty(null)	<b>New</b>	Default value empty(null)	<b>New</b>	<i>Move from ERP.BAI.2 all other Provider IDs except 1st</i>

<b>ERP.BAI.4</b>	<b>Webpage</b>	Change Attribute Name (old Service URL)	<i>Copy</i>	Change Attribute Name (old Service URL)	<i>Copy</i>	No change	<i>Copy</i>
<b>Marketing Information</b>							
Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Transition v1.13 to v3.00	Changes v1.30 to v3.00 (EOSC-hub)	Transition v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Transition v2.00 to v3.00
<b>ERP.MRI.1</b>	<b>Description</b>	Moved from Basic Information Block Change Attribute Name (old Service Description)	<i>Concatenate Description + User Value + User Base + Service Options</i>	Moved from Basic Information Block Change Attribute Name (old Service Description) Change Type (old Freetext)	<i>Copy</i>	Moved from Basic Information Block	<i>Copy</i>
<b>ERP.MRI.2</b>	<b>Tagline</b>	Moved from Basic Information Block Change Attribute Name (old Service Tagline) <b>Change to Mandatory</b>	<i>Copy or "-" if empty</i>	Change Attribute Name (old Service Tagline) Change Type (old Single Line)	<i>Copy</i>	Moved from Basic Information Block	<i>Copy</i>

<b>ERP.MRI.3</b>	<b>Logo</b>	Moved from Basic Information Block Change Attribute Name (old Service Symbol)	<i>Copy</i>	Change Attribute Name (old Service Logo)	<i>Copy</i>	Moved from Basic Information Block	<i>Copy</i>
<b>ERP.MRI.4</b>	<b>Multimedia</b>	Moved from Basic Information Block Change Attribute Name (old Service Multimedia)	<i>Copy</i>	Change Attribute Name (old Service Multimedia)	<i>Copy</i>	Moved from Basic Information Block	<i>Copy</i>
<b>ERP.MRI.5</b>	<b>Use Cases</b>	<b>New</b>	Default value empty(null)	Change Attribute Name (old Use cases/case studies) Change Type (old Freetext)	<i>Copy</i>	Change of Type (old String)	<i>Default value empty(null)</i>
<del><b>ERP.MRI.6</b></del>	<del><b>User Value</b></del>	<b>Removed for simplification</b>	<i>Content to be concatenated in Description</i>			<b>Removed for simplification</b>	<i>Content to be concatenated in Description</i>
<del><b>ERP.MRI.7</b></del>	<del><b>User Base</b></del>	<b>Removed for simplification</b>	<i>Content to be concatenated in Description</i>			<b>Removed for simplification</b>	<i>Content to be concatenated in Description</i>
<del><b>ERP.MRI.8</b></del>	<del><b>Service Options</b></del>	<b>Removed for simplification</b>	<i>Content to be concatenated in Description</i>			<b>Removed for simplification</b>	<i>Content to be concatenated in Description</i>
<del><b>ERP.MRI.9</b></del>	<del><b>Service endpoint</b></del>			<b>Removed for simplification</b>	<i>Delete</i>		

<b>Classification Information</b>							
Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Transition v1.13 to v3.00	Changes v1.30 to v3.00 (EOSC-hub)	Transition v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Transition v2.00 to v3.00
<b>ERP.CLI.1</b>	<b>Scientific Domain</b>	<b>New</b>	Default value "Other"	Moved from Classification & Matutiry Block Change Attribute Name (old Research files) Change Type (old Multiselect list)	New List of controlled values. Delete and use Default value "Other"	No change	<i>Copy</i>
<b>ERP.CLI.2</b>	<b>Scientific Subdomain</b>	<b>New</b>	Default value "Other"	<b>New</b>	Default value "Other"	No change	<i>Copy</i>
<b>ERP.CLI.3</b>	<b>Category</b>	Change Attribute Name (old Service Category) <b>Change Multiplicity (old 1)</b>	<i>Copy</i>	Moved from Classification & Matutiry Block Change Attribute Name (old Service category) Change Type (old Multiselect list)	New List of controlled values. Delete and use Default value "Other"	No change	<i>Copy</i>
<b>ERP.CLI.4</b>	<b>Subcategory</b>	Change Attribute Name (old Service Subcategory) <b>Change Multiplicity (old 1)</b>	<i>Copy</i>	<b>New</b>	Default value "Other"	No change	<i>Copy</i>

<b>ERP.CLI.5</b>	<b>Target Users</b>	Moved from Basic Information Block Change Type (old String (max 1000)) <b>Change to Mandatory</b>	Delete Free Text and Put Default value "Other" (or do manual selection based on free text)	Moved from Service Customers and Users Block Change Attribute Name (old Target user categories) Change Type (old Multiselect list)	<i>Copy checking the New List of controlled values or Default value "Other"</i>	No change	<i>Copy</i>
<b>ERP.CLI.6</b>	<b>Access Type</b>	<b>New</b>	Default value "Other"	<b>New</b>	Default value "Other"	No change	<i>Copy</i>
<b>ERP.CLI.7</b>	<b>Access Mode</b>	<b>New</b>	Default value "Other"	Moved from Access & Order Block Change Attribute Name (old Access Policies in use) Change Type (old Multiselect list)	<i>Copy checking the New List of controlled values or Default value "Other"</i>	No change	<i>Copy</i>
<b>ERP.CLI.8</b>	<b>Tags</b>	Change Attribute Name (old Service Tags)	<i>Copy</i>	Moved from Classification & Matutiry Block Change Attribute Name (old Service tags) Change Type (old Freetext)	<i>Copy</i>	Change Type (old max 20)	<i>Copy</i>
<del><b>ERP.CLI.9</b></del>	<del><b>Target customer tags</b></del>			<b>Removed for simplification</b>	<i>Delete</i>		
<b>Geographical and Language Availability Information</b>							
Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Transition v1.13 to v3.00	Changes v1.30 to v3.00 (EOSC-hub)	Transition v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Transition v2.00 to v3.00

<b>ERP.GLA.1</b>	<b>Geographical Availability</b>	Moved from Classification Block Change Attribute Name (old Service Place)	<i>Copy</i>	Moved from Basic Information Block Change Type (old Single Line)	<i>Copy</i>	Moved from Classification Block Change Attribute Name (old Location)	<i>Copy</i>
<b>ERP.GLA.2</b>	<b>Language Availability</b>	Moved from Classification Block Change Attribute Name (old Service Language)	<i>Copy</i>	Moved from Basic Information Block Change Attribute Name (old Service language) Change Type (old Single Line)	<i>Copy</i>	Moved from Classification Block Change Attribute Name (old Language)	<i>Copy</i>
<b>Resource Location Information</b>							
Code	Attribute Name	Changes v1.13 to v3.00	Registry Transition v1.13 to v3.00	Changes MP v1.3 to v3.00	Registry Transition MP v1.3 to v3.00	Changes v2.00 to v3.00	Registry Transition v2.00 to v3.00
<b>ERP.RLI.01</b>	<b>Resource Geographic Location</b>	<b>New</b>	Default value "Other"	<b>New</b>	Default value "Other"	<b>New</b>	Default value "Other"
<b>Contact Information</b>							
<b>Main Contact/Resource Owner</b>							
Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Transition v1.13 to v3.00	Changes v1.30 to v3.00 (EOSC-hub)	Transition v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Transition v2.00 to v3.00



ERP.COL.1	First Name	New	Copy from the Proviider Onboarding	Change Atttribute Name (old Service Owner name/group) Change Type (old Single Line) Change to Mandatory	Copy only First Name	Change Attribute Name (old Contact-1 First Name)	Copy
ERP.COL.2	Last Name	New	Copy from the Proviider Onboarding	Change Atttribute Name (old Service Owner name/group) Change Type (old Single Line) Change to Mandatory	Copy only Last Name	Change Attribute Name (old Contact-1 Last Name)	Copy
ERP.COL.3	Email	New	Copy from the Proviider Onboarding	Change Atttribute Name (old Service Owner contact)	Copy	Change Attribute Name (old Contact-1 Email)	Copy
ERP.COL.4	Phone	New	Default value empty(null)	New	Default value empty(null)	Change Attribute Name (old Contact-1 Telephone)	Copy
ERP.COL.5	Position	New	Default value empty(null)	New	Default value empty(null)	Change Attribute Name (old Contact-1 Position)	Copy
ERP.COL.6	Organisation	New	Default value empty(null)	New	Default value empty(null)	New	Default value empty(null)
Public Contact							

Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Transition v1.13 to v3.00	Changes v1.30 to v3.00 (EOSC-hub)	Transition v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Transition v2.00 to v3.00
<b>ERP.COL7</b>	<b>First Name</b>	<b>New</b>	Default value empty(null)	Change Attribtute Name (old Service support name/group) Change Type (old Single Line)	<i>Copy only First Name</i>	Change Attribtute Name (old Contact-2 First Name)	<i>Copy</i>
<b>ERP.COL8</b>	<b>Last Name</b>	<b>New</b>	Default value empty(null)	Change Attribtute Name (old Service support name/group) Change Type (old Single Line)	<i>Copy only Last Name</i>	Change Attribtute Name (old Contact-2 Last Name)	<i>Copy</i>
<b>ERP.COL9</b>	<b>Email</b>	<b>New</b>	Insert info@[Provider Domain] or if difficult "-"	Change Attribtute Name (old Service support contact)	<i>Copy</i>	Change Attribtute Name (old Contact-2 Email)	<i>Copy</i>
<b>ERP.COL10</b>	<b>Phone</b>	<b>New</b>	Default value empty(null)	<b>New</b>	Default value empty(null)	Change Attribtute Name (old Contact-2 Telephone)	<i>Copy</i>
<b>ERP.COL11</b>	<b>Position</b>	<b>New</b>	Default value empty(null)	<b>New</b>	Default value empty(null)	Change Attribtute Name (old Contact-2 Position)	<i>Copy</i>
<b>ERP.COL12</b>	<b>Organisation</b>	<b>New</b>	Default value empty(null)	<b>New</b>	Default value empty(null)	<b>New</b>	Default value empty(null)

**Other Contacts**

Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Transition v1.13 to v3.00	Changes v1.30 to v3.00 (EOSC-hub)	Transition v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Transition v2.00 to v3.00
<b>ERP.COL.13</b>	<b>Helpdesk Email</b>	<b>New</b>	Default value ERP.COL.9	Moved from Service Management Block Change Attribute Name (old Helpdesk email address)	<i>Copy</i>	<b>New</b>	Copy from ERP.COL.9
<b>ERP.COL.14</b>	<b>Security Contact Email</b>	<b>New</b>	Default value ERP.COL.9	Moved from Service Management Block Change Attribute Name (old Service security contact)	<i>Copy</i>	<b>New</b>	Copy from ERP.COL.9
<b>ERP.COL.15</b>	<b>Service security name/group</b>			<b>Removed</b>	<i>Delete</i>		
<b>Maturity Information</b>							
Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Transition v1.13 to v3.00	Changes v1.30 to v3.00 (EOSC-hub)	Transition v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Transition v2.00 to v3.00
<b>ERP.MTL.1</b>	<b>Technology Readiness Level</b>	Moved from Classification Block Change Attribute Name (old Service TRL)	<i>Copy</i>	Moved from Classification & Maturity Block Change Attribute Name (old Service TRL)	<i>Copy</i>	Change Necessity (old optional)	<i>Copy or "TRL7" if null</i>

<b>ERP.MTI.2</b>	<b>Life Cycle Status</b>	Moved from Classification Block <b>Change to Optional</b>	<i>Copy</i>	<b>New</b>	Default value "Other"	Change Attribute Name (old Phase)	<i>Copy</i>
<b>ERP.MTI.3</b>	<b>Certifications</b>	<b>New</b>	Default value empty(null)	Moved from Standards & Technologies Block Change Attribute Name (old Service Certifications)	<i>Copy</i>	No change	<i>Copy</i>
<b>ERP.MTI.4</b>	<b>Standards</b>	<b>New</b>	Default value empty(null)	Moved from Standards & Technologies Block Change Attribute Name (old Service Standards)	<i>Copy</i>	No change	<i>Copy</i>
<b>ERP.MTI.5</b>	<b>Open Source Technologies</b>	<b>New</b>	Default value empty(null)	Moved from Standards & Technologies Block	<i>Copy</i>	<b>New</b>	Default value empty(null)
<b>ERP.MTI.6</b>	<b>Version</b>	Moved from Classification Block Change Attribute Name (old Service Version)	<i>Copy</i>	<b>New</b>	Default value empty(null)	No change	<i>Copy</i>
<b>ERP.MTI.7</b>	<b>Last Update</b>	Moved from Classification Block Change Attribute Name (old Service Last Update)	<i>Copy</i>	<b>New</b>	Default value empty(null)	No change	<i>Copy</i>

<b>ERP.MTL8</b>	<b>Change Log</b>	Moved from Classification Block Change Attribute Name (old Service Change Log) <b>Change Multiplicity (old 1)</b>	<i>Copy</i>	<b>New</b>	Default value empty(null)	No change	<i>Copy</i>
<b>ERP.MTL9</b>	<b>Service Valid for</b>	<b>Removed</b> Not very relevant in the Research context		<b>Removed</b> Not very relevant in the Research context		<b>Removed</b> Not very relevant in the Research context Was removed	
<b>Dependencies Information</b>							
Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Transition v1.13 to v3.00	Changes v1.30 to v3.00 (EOSC-hub)	Transition v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Transition v2.00 to v3.00
<b>ERP.DEL1</b>	<b>Required Resources</b>	Moved from Classification Block Change Attribute Name (old Required Services)	<i>Copy</i>	Change Attribute Name (old Dependencies/Required services from the EOSC Portfolio) Change Type (old Freetext)	<i>Copy Confirm ID</i>	No change	<i>Copy</i>

<b>ERP.DEL2</b>	<b>Related Resources</b>	Moved from Classification Block Change Attribute Name (old Related Services)	<i>Copy</i>	Change Attribute Name (old Related Services) Change Type (old Freetext)	<i>Copy Confirm ID</i>	No change	<i>Copy</i>
<b>ERP.DEL3</b>	<b>Related Platforms</b>	<b>New</b>	Default value empty(null)	Change Attribute Name (old Related providers and platforms) Change Type (old Freetext)	<i>Copy</i>	Change Type (old max 20)	<i>Copy</i>
<b>Attribution Information</b>							
Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Transition v1.13 to v3.00	Changes v1.30 to v3.00 (EOSC-hub)	Transition v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Transition v2.00 to v3.00
<b>ERP.ATL1</b>	<b>Funding Body</b>	Moved from Contractual Block Change Attribute Name (old Service Funding) Change Type (old String (max 1000))	Delete Free Text and Put Default value "Other" (or do manual selection based on free text)	<b>New</b>	Default value "Other"	Moved from Classification Block Change Attribute Name (old Funded by)	<i>Copy</i>
<b>ERP.ATL2</b>	<b>Funding Program</b>	<b>New</b>	Default value "Other"	<b>New</b>	Default value "Other"	<b>New</b>	Default value "Other"
<b>ERP.ATL3</b>	<b>Grant/Project Name</b>	<b>New</b>	Default value empty(null)	<b>New</b>	Default value empty(null)	<b>New</b>	Default value empty(null)

<b>Management Information</b>							
Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Transition v1.13 to v3.00	Changes v1.30 to v3.00 (EOSC-hub)	Transition v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Transition v2.00 to v3.00
<b>ERP.MGI.1</b>	<b>Helpdesk Page</b>	Moved from Support Block Change Attribute Name (old Service Helpdesk)	<i>Copy</i>	Moved from Service Management Block Change Attribute Name (old Helpdesk URL) <b>Change to Optional</b>	<i>Copy</i>	Moved from Support Block Change Attribute Name (old Helpdesk)	<i>Copy</i>
<b>ERP.MGI.2</b>	<b>User Manual</b>	Moved from Support Block Change Attribute Name (old Service User Manual)	<i>Copy</i>	Moved from Service Management Block Change Attribute Name (old Service User Manual) <b>Change to Optional</b>	<i>Copy</i>	Moved from Support Block	<i>Copy</i>
<b>ERP.MGI.3</b>	<b>Terms Of Use</b>	Moved from Contractual Block Change Attribute Name (old Service Terms of Use)	<i>Copy</i>	Moved from Service Management Block Change Attribute Name (old Service terms of use / Acceptable use Policy / Terms and Conditions) <b>Change to Optional</b>	<i>Copy</i>	Moved from Contractual Block	<i>Copy</i>
<b>ERP.MGI.4</b>	<b>Privacy Policy</b>	<b>New</b>	Default value empty(null)	Moved from Service Management Block <b>Change to Optional</b>	<i>Copy</i>	Moved from Contractual Block	Default value empty(null)

<b>ERP.MGI.5</b>	<b>Access Policy</b>	<b>New</b>	Default value empty(null)	Moved from Access & Order Information Block Change Attribute Name (old Service Access Policy description) Change Type (old Freertext)	<i>Copy</i>	Moved from Contractual Block	Default value empty(null)
<b>ERP.MGI.6</b>	<b>Service Level</b>	Moved from Contractual Block Change Attribute Name (old Service Level Agreement) <b>Change to Optional</b>	<i>Copy</i>	Moved from Service Management Block Change Attribute Name (old Service Level Agreement ro Service Level Specification)	<i>Copy</i>	Moved from Contractual Block Change Attribute Name (old Service Level Agreement)	<i>Copy</i>
<b>ERP.MGI.7</b>	<b>Training Information</b>	Moved from Support Block Change Attribute Name (old Service Training Information)	<i>Copy</i>	Moved from Service Management Block Change Attribute Name (old Service training or tutorial information)	<i>Copy</i>	Moved from Support Block	<i>Copy</i>
<b>ERP.MGI.8</b>	<b>Status Monitoring</b>	<b>New</b>	Default value empty(null)	Moved from Service Management Block Change Attribute Name (old Service Monitoring URL)	<i>Copy</i>	Moved from Support Block	<i>Copy</i>



<b>ERP.MGI.9</b>	<b>Maintenance</b>	<b>New</b>	Default value empty(null)	Moved from Service Management Block Change Attribute Name (old Service Maintenance URL)	<i>Copy</i>	Moved from Support Block	<i>Copy</i>
<b>ERP.MGI.10</b>	<b>Service Feedback</b>	<b>Removed</b>				<b>Removed</b>	
<b>ERP.MGI.11</b>	<b>Admin Manual</b>	<b>Removed</b>				<b>Removed</b>	
<b>Access and Order Information</b>							
Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Transition v1.13 to v3.00	Changes v1.30 to v3.00 (EOSC-hub)	Transition v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Transition v2.00 to v3.00
<b>ERP.AOI.1</b>	<b>Order Type</b>	<b>New</b>	Default value "Other"	<b>New</b>	Default value "Other"	Moved from Contractual Block	<i>Copy</i>
<b>ERP.AOI.2</b>	<b>Order</b>	Moved from Support Block Change Attribute Name (old Service Order)	<i>Copy</i>	<b>New</b>	Default value empty(null)	Moved from Contractual Block	<i>Copy</i>
<b>ERP.AOI.3</b>	<b>Open/Wide Access Service</b>			<b>Removed</b>			
<b>ERP.AOI.4</b>	<b>Service ordering</b>			<b>Removed</b>			

<b>Financial Information</b>							
Code	Attribute Name	Changes v1.13 to v3.00 (eInfraCentral)	Transition v1.13 to v3.00	Changes v1.30 to v3.00 (EOSC-hub)	Transition v1.30 to v3.00	Changes v2.00 to v3.00 (CatRIS)	Transition v2.00 to v3.00
<b>ERP.FNI.1</b>	<b>Payment Model</b>	<b>New</b>	Default value empty(null)	<b>New</b>	Default value empty(null)	Moved from Contractual Block	<i>Copy</i>
<b>ERP.FNI.2</b>	<b>Pricing</b>	Moved from Support Block Change Attribute Name (old Service Price)	<i>Copy</i>	<b>New</b>	Default value empty(null)	Moved from Contractual Block	<i>Copy</i>

# EOSC Resource 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 v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
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	New	Change to FOS 2017	Change to FOS 2017
			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	New	Change to FOS 2017	Change to FOS 2017
			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	Other engineering and technology sciences			
			1	Basic medicine			
			2	Clinical medicine			
3	Medical & Health Sciences	The science of dealing with the maintenance of health and the prevention and treatment of disease	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	1	History and archaeology			

		opposed to natural processes (as in physics or chemistry) and social relations (as in anthropology or economics).	2	Languages and literature			
			3	Philosophy, ethics and religion			
			4	Arts			
			5	Other humanities			
7	Generic	Generic, Not targeting a specific domain.	1	Generic		Change from Interdisciplinary to Generic	Change from Interdisciplinary to Generic
8	Other		1	Other			

### Resource Category, Subcategory (and Supercategory)

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

No .	Category	Description	No .	Subcategory	No .	Supercategory	Changes v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
1	Instrument & Equipment	Access to instruments and equipment	1	Spectrometer	1	Access physical & e-Infrastructures	New		
			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		New		
			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 Infrastructure s' Resources	1	Direct Connect		Change Name (old Networking)  Deleted Subcategories: Application		
			2	Virtual Network				
			3	Load Balancer				
			4	VPN Gateway				
			5	Exchange				

			6	Content Delivery Network			Gateway, API Gateway		
			7	Traffic Manager			Added subcategories: Exchange		
			8	Other					
4	Compute	High-performance computing Resources and scalable cloud compute capacity for demanding job processes	1	Virtual Machine Management			Deleted Subcategories: Batch Processing		
			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			Change Name (old Storage)		
			2	File					
			3	Queue			Deleted Subcategories: Blob, Digital preservation		
			4	Disk					
			5	Online					
			6	Archive			Added subcategories: Online		
			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	Sharing & Discovery	Deleted Subcategories: Mining, Access, Management, Transfer Management, Registration, Persisten Identifier, Interlinking, Publishing, DIsccovery, Anonymisation, Preservation, Brokering, Anotation		
			2	Statistical data					
			3	Scientific/Research data					
			4	Online service data					
			5	Clinical trial data					
			6	Epidemiological data					
			7	Data archives					
			8	Other			Added subcategories: All new		
7		Research findings	1	Preparation			New		
			2	Discovery					

	Scholarly Communication	available to the wider academic community and beyond	3	Analysis				
			4	Writing				
			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		Deleted Subcategories: Tool, Component, Algorithm, Developer		
			2	Platform				
			3	Software Package				
			4	Libraries		Added subcategories: Software Repository, Software Package, Libraries		
			5	Other				
9	Application	End-user applications (apps) offered-as-a-service or deployed-on-demand	1	Communication		Deleted Subcategories: Porting, Scaling, Developer		
			2	Collaboration				
			3	Productivity				
			4	Business		Added subcategories: Communication, Collaboration, Social/Networking, Utilities, Applications Repository		
			5	Education				
			6	Social/Networking				
			7	Utilities				
			8	Applications Repository				

			9	Other					
10	Development Resource	Developer tools, development kits, libraries, APIs	1	Developer Tools			New		
			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			New		
			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	New		
			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		Change Name (old Analytics)		
			2	Artificial Intelligence				
			3	Forecast		Deleted subcategories:		
			4	Visualization		Business Analytics,		
			5	Data extrapolation		Web Analytics,		
			6	Image/data analysis		Learning Analytics,		
			7	Workfows		Predictive Analytics,		
			8	2D/3D Digitisation		Added subcategories:		
						Artificial		

				9	Other			Intelligence, Forecast, Visualisation, Data extrapolation, Image/data analysis, workflows, 2d/3d Dification		
14	Measurement & Materials Analysis	Processes and techniques for material analysis, characterisation and monitoring		1	Analysis			New		
				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	Change Name (old Security)  Deleted subcategories: AAI, Attacks protection  Added subcategories: User authentication,		
				2	Identity and access management					
				3	Threat protection					
				4	Coordination					
				5	Tools					
				6	Certification authority					

			7	Single Sign-On			Identity and access management, Threat protection, Certification authority, single sign-on, Firewall, Group Management		
			8	Firewall					
			9	Group Management					
			10	Other					
16	Operations & Infrastructure Management Services	Services for monitoring, scaling, creating, tracking and automating operations on [your] infrastructures and services.	1	Accounting			Change Name (old Operations)  Deleted subcategories: Utilities,  Added subcategories: Billing, Transportation		
			2	Helpdesk					
			3	Monitoring					
			4	Analysis					
			5	Configuration					
			6	Utilities					
			7	Coordination					
			8	Billing					
			9	Order Management					
			10	Transportation					
			11	Other					
17	Education & Training	Highly-specialized seminars and courses to help advance research knowledge and	1	Online Courses	5	Training & Support	Change Name (old Training)  Added subcategories: Related Training, Required Training		
			2	Open Registration Courses					
			3	In-house Courses					
			4	Training Tool					
			5	Training Platform					

		sharpen scientific skills	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		Change Name (old Consulting)		
			2	Audit and Assessment				
			3	Application Porting				
			4	Application Scaling				
			5	Application Optimisation				
			6	Software Development				
			7	Software Improvement				
			8	Modeling and Simulation				
			9	Prototype Development				
			10	Testing				
			11	Certification				
			12	Calibration				
			13	Benchmarking				
						Added subcategories: Consulting, Application Porting, Application Scaling, Application Optimisation, Software Development, Software Improvement, Modelling and Simulation, Prototype Development, Testing, Certification, Calibration, Benchmarking, Technology Transfer, Methodology Development		

			14	Technology Transfer					
			15	Methodology Development					
			16	Other					
19	Aggregators & Integrators	Thematic, Regional and other Aggregators & Integrators	1	Services	6	Aggregators & Integrators	New		Deleted a number of subcategories since now the Provider can insert multiple categories and subcategories
			2	Data					
			3	Applications					
			4	Software					
			5	Other					
20	Other		1	Other	7	Other			

#### Resource Target Users

No.	Target Users	Description	Changes v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
1	Researchers	Someone who conducts scientific research, i.e., an organized and systematic investigation by using scientific methods.	New		
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.			



<b>4</b>	Research projects	A privately or publicly funded project on a research topic.			
<b>5</b>	Research networks	Research networks aim to stimulate interaction between researchers and promote information exchange.			
<b>6</b>	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.			
<b>7</b>	Research organisations	A public or private legal entity (e.g. academia, business, industry, public services, etc.) representing the User.			
<b>8</b>	Students	A person who is studying at a university or other place of higher education.			
<b>8</b>	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.			
<b>9</b>	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.			
<b>10</b>	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.			
<b>11</b>	Funders	Individual or organization financing a part or all of a project's cost as a grant, investment, or loan.			
<b>12</b>	Policy Makers	Individuals (usually members of the board of directors) who have the authority to set the policy framework of an organization.			
<b>13</b>	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.			
<b>14</b>	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	Other				

#### Resource Access Type

No.	Access Type	Description	Changes v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
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.	New	New	
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	Other				

#### Resource Access Mode

No.	Access Mode	Description	Changes v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
1	Free	Users can freely access the Resource provided, registration may be needed.	New	New	
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 [ERV: EOSC Resource Profile#Resource Geographic Location](#) and the following area aggregates.

No.	Country	Definition	Changes v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
1	Worldwide (WW)	All countries			
2	Europe (EO)	All European Countries	New		New
3	European Union (EU)	All countries of the European Union			
4	Euro Zone (EZ)	All countries of the Eurozone	New		New
5	Schengen Area (AH)	All Schengen Area countries	New		New
...	+ all countries in the <a href="#">ERV: EOSC Resource Profile#Resource Geographic Location</a>				

### Resource Language Availability

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

No.	Language	Changes v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
1	Abkhazian (ab)	Change from Abkhaz		Change from Abkhaz
2	Afar (aa)			
3	Afrikaans (af)			

<b>4</b>	Akan (ak)			
<b>5</b>	Albanian (sq)			
<b>6</b>	Amharic (am)			
<b>7</b>	Arabic (ar)			
<b>8</b>	Aragonese (an)			
<b>9</b>	Armenian (hy)			
<b>10</b>	Assamese (as)			
<b>11</b>	Avaric (av)			
<b>12</b>	Avestan (ae)			
<b>13</b>	Aymara (ay)			
<b>14</b>	Azerbaijani (az)			
<b>15</b>	Bambara (bm)			
<b>16</b>	Bashkir (ba)			
<b>17</b>	Basque (eu)			
<b>18</b>	Belarusian (be)			
<b>19</b>	Bengali (bn)			
<b>20</b>	Bihari (bh)			
<b>21</b>	Bislama (bi)			
<b>22</b>	Bosnian (bs)			
<b>23</b>	Breton (br)			
<b>24</b>	Bulgarian (bg)			
<b>25</b>	Burmese (my)			

<b>26</b>	Catalan (ca)			
<b>27</b>	Chamorro (ch)			
<b>28</b>	Chechen (ce)			
<b>29</b>	Chichewa (ny)			
<b>30</b>	Chinese (zh)			
<b>31</b>	Chuvash (cv)			
<b>32</b>	Cornish (kw)			
<b>33</b>	Corsican (co)			
<b>34</b>	Cree (cr)			
<b>35</b>	Croatian (hr)			
<b>36</b>	Czech (cs)			
<b>37</b>	Danish (da)			
<b>38</b>	Divehi (dv)			
<b>39</b>	Dutch (nl)			
<b>40</b>	Dzongkha (dx)			
<b>41</b>	English (en)			
<b>42</b>	Esperanto (eo)			
<b>43</b>	Estonian (et)			
<b>44</b>	Ewe (ee)			
<b>45</b>	Faroese (fo)			
<b>46</b>	Fijian (fj)			
<b>47</b>	Finnish (fi)			

<b>48</b>	French (fr)			
<b>49</b>	Fula (ff)			
<b>50</b>	Gaelic (gl)			
<b>51</b>	Galician (gd)			
<b>52</b>	Georgian (ka)			
<b>53</b>	German (de)			
<b>54</b>	Greek (el)			
<b>55</b>	Guarani (gn)			
<b>56</b>	Gujarati (gu)			
<b>57</b>	Haitian (ht)			
<b>58</b>	Hausa (ha)			
<b>59</b>	Hebrew (he)			
<b>60</b>	Herero (hz)			
<b>61</b>	Hindi (hi)			
<b>62</b>	Hiri Motu (ho)			
<b>63</b>	Hungarian (hu)			
<b>64</b>	Icelandic (is)			
<b>65</b>	Ido (io)			
<b>66</b>	Igbo (ig)			
<b>67</b>	Indonesian (id)			
<b>68</b>	Interlingua (ia)			
<b>69</b>	Interlingue (ie)			

<b>70</b>	Inuktitut (iu)			
<b>71</b>	Inupiak (ik)			
<b>72</b>	Irish (ga)			
<b>73</b>	Italian (it)			
<b>74</b>	Japanese (ja)			
<b>75</b>	Javanese (jv)			
<b>76</b>	Kalaallisut (kl)			
<b>77</b>	Kannada (kn)			
<b>78</b>	Kanuri (kr)			
<b>79</b>	Kashmiri (ks)			
<b>80</b>	Kazakh (kk)			
<b>81</b>	Khmer (km)			
<b>82</b>	Kikuyu (ki)			
<b>83</b>	Kinyarwanda (rw)			
<b>84</b>	Kirundi (rn)			
<b>85</b>	Komi (kv)			
<b>86</b>	Kongo (kg)	Added		Added
<b>87</b>	Korean (ko)			
<b>88</b>	Kurdish (ku)			
<b>89</b>	Kwanyama (kj)			
<b>90</b>	Kyrgyz (ky)			
<b>91</b>	Lao (lo)			

<b>92</b>	Latin (la)			
<b>93</b>	Latvian (lv)			
<b>94</b>	Limburgish (li)			
<b>95</b>	Lingala (ln)			
<b>96</b>	Lithuanian (lt)			
<b>97</b>	Luba-Katanga (lu)			
<b>98</b>	Luxembourgish (lb)			
<b>99</b>	Macedonian (mk)			
<b>100</b>	Malagasy (mg)	Added		Added
<b>101</b>	Malay (ms)			
<b>102</b>	Malayalam (ml)			
<b>103</b>	Maltese (mt)			
<b>104</b>	Manx (gv)			
<b>105</b>	Maori (mi)			
<b>106</b>	Marathi (mr)			
<b>107</b>	Marshallese (mh)			
<b>108</b>	Mongolian (mn)			
<b>109</b>	Nauru (na)			
<b>110</b>	Navajo (nv)			
<b>111</b>	Ndonga (ng)			
<b>112</b>	Nepali (ne)			
<b>113</b>	Northern Ndebele (nd)			



<b>114</b>	Norwegian (no)			
<b>115</b>	Norwegian bokmål (nb)			
<b>116</b>	Norwegian nynorsk (nn)			
<b>117</b>	Nuosu (ii)			
<b>118</b>	Occitan (oc)			
<b>119</b>	Ojibwe (oj)			
<b>120</b>	Old Church Slavonic (cu)			
<b>121</b>	Oriya (or)			
<b>122</b>	Oromo (om)			
<b>123</b>	Ossetian (os)			
<b>124</b>	Pāli (pi)			
<b>125</b>	Pashto (ps)			
<b>126</b>	Persian (fa)			
<b>127</b>	Polish (pl)			
<b>128</b>	Portuguese (pt)			
<b>129</b>	Panjabi (pa)			
<b>130</b>	Quechua (qu)			
<b>131</b>	Romanian (ro)			
<b>132</b>	Romansh (rm)			
<b>133</b>	Russian (ru)	Added		Added
<b>134</b>	Sami (se)	Added		Added

<b>135</b>	Samoa (sm)			
<b>136</b>	Sango (sg)			
<b>137</b>	Sanskrit (sa)			
<b>138</b>	Sardinian (sc)			
<b>139</b>	Serbian (sr)			
<b>140</b>	Sesotho (st)	Added		Added
<b>141</b>	Setswana (tn)	Added		Added
<b>142</b>	Shona (sn)			
<b>143</b>	Sindhi (sd)			
<b>144</b>	Sinhalese (si)	Change rom Sinhala		Change rom Sinhala
<b>145</b>	Slovak (sk)			
<b>146</b>	Slovenian (sl)	Change from Slovene		Change from Slovene
<b>147</b>	Somali (so)			
<b>148</b>	Southern Ndebele (nr)			
<b>149</b>	Spanish (es)			
<b>150</b>	Sundanese (su)			
<b>151</b>	Swahili (sw)			
<b>152</b>	Swati (ss)			
<b>153</b>	Swedish (sv)			
<b>154</b>	Tagalog (tl)			
<b>155</b>	Tahitian (ty)			
<b>156</b>	Tajik (tg)			

<b>157</b>	Tamil (ta)			
<b>158</b>	Tatar (tt)			
<b>159</b>	Telugu (te)			
<b>160</b>	Thai (th)			
<b>161</b>	Tibetan (bo)			
<b>162</b>	Tigrinya (ti)			
<b>163</b>	Tonga (to)			
<b>164</b>	Tsonga (ts)			
<b>165</b>	Turkish (tr)			
<b>166</b>	Turkmen (tk)			
<b>167</b>	Twi (tw)			
<b>168</b>	Ukrainian (uk)			
<b>169</b>	Urdu (ur)			
<b>170</b>	Uyghur (ug)			
<b>171</b>	Uzbek (uz)			
<b>172</b>	Venda (ve)			
<b>173</b>	Vietnamese (vi)			
<b>174</b>	Volapük (vo)			
<b>175</b>	Wallon (wa)			
<b>176</b>	Welsh (cy)			
<b>177</b>	Western Frisian (fy)			
<b>178</b>	Wolof (wo)			

<b>179</b>	Xhosa (xh)			
<b>180</b>	Yiddish (yi)			
<b>181</b>	Yoruba (yo)			
<b>182</b>	Zhuang (za)			
<b>183</b>	Zulu (zu)			
<b>184</b>	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](#).

<b>No.</b>	<b>Country</b>	<b>Changes v1.13 to v3.00</b>	<b>Changes v1.30 to v3.00</b>	<b>Changes v2.00 to v3.00</b>
<b>1</b>	Afghanistan (AF)	<b>New</b>		
<b>2</b>	Åland Islands (AX)			
<b>3</b>	Albania (AL)			
<b>4</b>	Algeria (DZ)			
<b>5</b>	American Samoa (AS)			
<b>6</b>	Andorra (AD)			
<b>7</b>	Angola (AO)			
<b>8</b>	Anguilla (AI)			
<b>9</b>	Antarctica (AQ)			
<b>10</b>	Antigua and Barbuda (AG)			

<b>11</b>	Argentina (AR)			
<b>12</b>	Armenia (AM)			
<b>13</b>	Aruba (AW)			
<b>14</b>	Australia (AU)			
<b>15</b>	Austria (AT)			
<b>16</b>	Azerbaijan (AZ)			
<b>17</b>	Bahamas (BS)			
<b>18</b>	Bahrain (BH)			
<b>19</b>	Bangladesh (BD)			
<b>20</b>	Barbados (BB)			
<b>21</b>	Belarus (BY)			
<b>22</b>	Belgium (BE)			
<b>23</b>	Belize (BZ)			
<b>24</b>	Benin (BJ)			
<b>25</b>	Bermuda (BM)			
<b>26</b>	Bhutan (BT)			
<b>27</b>	Bolivia (BO)			
<b>28</b>	Bonaire, Sint Eustatius and Saba (BQ)			
<b>29</b>	Bosnia and Herzegovina (BA)			
<b>30</b>	Botswana (BW)			
<b>31</b>	Bouvet Island BV)			
<b>32</b>	Brazil (BR)			

<b>33</b>	British Indian Ocean Territory (IO)			
<b>34</b>	Brunei Darussalam (BN)			
<b>35</b>	Bulgaria (BG)			
<b>36</b>	Burkina Faso (BF)			
<b>37</b>	Burundi (BI)			
<b>38</b>	Cabo Verde (CV)		Cape Verde replaced by Cabo Verde	Cape Verde replaced by Cabo Verde
<b>39</b>	Cambodia (KH)			
<b>40</b>	Cameroon (CM)			
<b>41</b>	Canada (CA)			
<b>42</b>	Cayman Islands (KY)			
<b>43</b>	Central African Republic (CF)			
<b>44</b>	Chad (TD)			
<b>45</b>	Chile (CL)			
<b>46</b>	China (CN)			
<b>47</b>	Christmas Island (CX)			
<b>48</b>	Cocos (Keeling) Islands (CC)			
<b>49</b>	Colombia (CO)			
<b>50</b>	Comoros (KM)			
<b>51</b>	Congo (Democratic Republic) (CD)			
<b>52</b>	Congo (CG)			
<b>53</b>	Cook Islands (CK)			

<b>54</b>	Costa Rica (CR)			
<b>55</b>	Côte d'Ivoire (CI)			
<b>56</b>	Croatia (HR)			
<b>57</b>	Cuba (CU)			
<b>58</b>	Curaçao (CW)			
<b>59</b>	Cyprus (CY)			
<b>60</b>	Czechia (CZ)		Czech Republic replaced by Czechia	Czech Republic replaced by Czechia
<b>61</b>	Denmark (DK)			
<b>62</b>	Djibouti (DJ)			
<b>63</b>	Dominica (DM)			
<b>64</b>	Dominican Republic (DO)			
<b>65</b>	Ecuador (EC)			
<b>66</b>	Egypt (EG)			
<b>67</b>	El Salvador (SV)			
<b>68</b>	Equatorial Guinea (GQ)			
<b>69</b>	Eritrea (ER)			
<b>70</b>	Estonia (EE)			
<b>71</b>	Eswatini (SZ)		Swaziland replaced by Eswatini	Swaziland replaced by Eswatini
<b>72</b>	Ethiopia (ET)			

<b>73</b>	Falkland Islands (FK)			
<b>74</b>	Faroe Islands (FO)		Faeroe Islands replaced by Faroe Islands	Faeroe Islands replaced by Faroe Islands
<b>75</b>	Fiji (FJ)			
<b>76</b>	Finland (FI)			
<b>77</b>	France (FR)			
<b>78</b>	French Guiana (GF)			
<b>79</b>	French Polynesia (PF)			
<b>80</b>	French Southern Territories (TF)			
<b>81</b>	Gabon (GA)			
<b>82</b>	Gambia (GM)			
<b>83</b>	Georgia (GE)			
<b>84</b>	Germany (DE)			
<b>85</b>	Ghana (GH)			
<b>86</b>	Gibraltar (GI)			
<b>87</b>	Greece (EL)		EL instead of GR	EL instead of GR
<b>88</b>	Greenland (GL)			
<b>89</b>	Grenada (GD)			
<b>90</b>	Guadeloupe (GP)			
<b>91</b>	Guam (GU)			
<b>92</b>	Guatemala (GT)			
<b>93</b>	Guernsey (GC)			



<b>94</b>	Guinea (GN)			
<b>95</b>	Guinea-Bissau (GW)			
<b>96</b>	Guyana (GY)			
<b>97</b>	Haiti (HT)			
<b>98</b>	Heard Island and McDonald Islands (HM)			
<b>99</b>	Holy See (VA)			
<b>100</b>	Honduras (HN)			
<b>101</b>	Hong Kong (HK)			
<b>102</b>	Hungary (HU)		Republic of Hungary replaced by Hungary	Republic of Hungary replaced by Hungary
<b>103</b>	Iceland (IS)			
<b>104</b>	India (IN)			
<b>105</b>	Indonesia (ID)			
<b>106</b>	Iran (IR)			
<b>107</b>	Iraq (IQ)			
<b>108</b>	Ireland (IE)			
<b>109</b>	Isle of Man (IM)			
<b>110</b>	Israel (IL)			
<b>111</b>	Italy (IT)			
<b>112</b>	Jamaica (JM)			
<b>113</b>	Japan (JP)			
<b>114</b>	Jersey (JE)			

<b>115</b>	Jordan (JO)			
<b>116</b>	Kazakhstan (KZ)			
<b>117</b>	Kenya (KE)			
<b>118</b>	Kiribati (KI)			
<b>119</b>	Korea (Democratic People's Republic) (KP)			
<b>120</b>	Korea (Republic) (KR)			
<b>121</b>	Kuwait (KW)			
<b>122</b>	Kyrgyzstan (KG)			
<b>123</b>	Lao People's Democratic Republic (LA)			
<b>124</b>	Latvia (LV)			
<b>125</b>	Lebanon (LB)			
<b>126</b>	Lesotho (LS)			
<b>127</b>	Liberia (LR)			
<b>128</b>	Libya (LY)			
<b>129</b>	Liechtenstein (LI)			
<b>130</b>	Lithuania (LT)			
<b>131</b>	Luxembourg (LU)			
<b>132</b>	Macao (MO)			
<b>133</b>	Madagascar (MG)			
<b>134</b>	Malawi (MW)			
<b>135</b>	Malaysia (MY)			

<b>136</b>	Maldives (MV)			
<b>137</b>	Mali (ML)			
<b>138</b>	Malta (MT)			
<b>139</b>	Marshall Islands (MH)			
<b>140</b>	Martinique (MQ)			
<b>141</b>	Mauritania (MR)			
<b>142</b>	Mauritius (MU)			
<b>143</b>	Mayotte (YT)			
<b>144</b>	Mexico (MX)			
<b>145</b>	Micronesia (FM)			
<b>146</b>	Moldova (MD)			
<b>147</b>	Monaco (MC)			
<b>148</b>	Mongolia (MN)			
<b>149</b>	Montenegro (ME)			
<b>150</b>	Montserrat (MS)			
<b>151</b>	Morocco (MA)			
<b>152</b>	Mozambique (MZ)			
<b>153</b>	Myanmar (MM)			
<b>154</b>	Namibia (NA)			
<b>155</b>	Nauru (NR)			
<b>156</b>	Nepal (NP)			
<b>157</b>	Netherlands (NL)			

<b>158</b>	New Caledonia (NC)			
<b>159</b>	New Zealand (NZ)			
<b>160</b>	Nicaragua (NI)			
<b>161</b>	Niger (NE)			
<b>162</b>	Nigeria (NG)			
<b>163</b>	Niue (NU)			
<b>164</b>	Norfolk Island (NF)			
<b>165</b>	North Macedonia MK)		Former Yugoslav Republic of Macedonia replaced by North Macedonia	Former Yugoslav Republic of Macedonia replaced by North Macedonia
<b>166</b>	Northern Mariana Islands (MP)		Northern Marianas replaced by Northern Mariana Islands	Northern Marianas replaced by Northern Mariana Islands
<b>167</b>	Norway (NO)			
<b>168</b>	Oman (OM)			
<b>169</b>	Pakistan (PK)			
<b>170</b>	Palau (PW)			
<b>171</b>	Palestine, State of (PS)			
<b>172</b>	Panama (PA)			
<b>173</b>	Papua New Guinea (PG)			
<b>174</b>	Paraguay (PY)			
<b>175</b>	Peru (PE)			

<b>176</b>	Philippines (PH)			
<b>177</b>	Pitcairn (PN)			
<b>178</b>	Poland (PL)			
<b>179</b>	Portugal (PT)			
<b>180</b>	Puerto Rico (PR)			
<b>181</b>	Qatar (QA)			
<b>182</b>	Réunion (RE)			
<b>183</b>	Romania (RO)			
<b>184</b>	Russian Federation (RU)			
<b>185</b>	Rwanda (RW)			
<b>186</b>	Saint Barthélemy (BL)			
<b>187</b>	Saint Helena, Ascension and Tristan da Cunha (SH)		Saint Helena replaced by Saint Helena, Ascension and Tristan da Cunha	Saint Helena replaced by Saint Helena, Ascension and Tristan da Cunha
<b>188</b>	Saint Kitts and Nevis (KN)			
<b>189</b>	Saint Lucia (LC)			
<b>190</b>	Saint Martin (MF)			
<b>191</b>	Saint Pierre and Miquelon (PM)			
<b>192</b>	Saint Vincent and the Grenadines (VC)			
<b>193</b>	Samoa (WS)			
<b>194</b>	San Marino (SM)			

<b>195</b>	São Tomé and Príncipe (ST)			
<b>196</b>	Saudi Arabia (SA)			
<b>197</b>	Senegal (SN)			
<b>198</b>	Serbia (RS)			
<b>199</b>	Seychelles (SC)			
<b>200</b>	Sierra Leone (SL)			
<b>201</b>	Singapore (SG)			
<b>202</b>	Sint Maarten (SX)			
<b>203</b>	Slovakia (SK)			
<b>204</b>	Slovenia (SI)			
<b>205</b>	Solomon Islands (SB)			
<b>206</b>	Somalia (SO)			
<b>207</b>	South Africa (ZA)			
<b>208</b>	South Georgia and the South Sandwich Islands (GS)			
<b>209</b>	South Sudan (SS)			
<b>210</b>	Spain (ES)			
<b>211</b>	Sri Lanka (LK)			
<b>212</b>	Sudan (SD)			
<b>213</b>	Suriname (SR)			
<b>214</b>	Svalbard and Jan Mayen (SJ)			
<b>215</b>	Sweden (SE)			

<b>216</b>	Switzerland (CH)			
<b>217</b>	Syrian Arab Republic (SY)			
<b>218</b>	Taiwan (Province of China) (TW)			
<b>219</b>	Tajikistan (TJ)			
<b>220</b>	Tanzania (TZ)			
<b>221</b>	Thailand (TH)			
<b>222</b>	Timor-Leste (TL)		East Timor replaced by Timor-Leste	East Timor replaced by Timor-Leste
<b>223</b>	Togo (TG)			
<b>224</b>	Tokelau (TK)			
<b>225</b>	Tonga (YO)			
<b>226</b>	Trinidad and Tobago (TT)			
<b>227</b>	Tunisia (TN)			
<b>228</b>	Turkey (TR)			
<b>229</b>	Turkmenistan (TM)			
<b>230</b>	Turks and Caicos Islands (TC)			
<b>231</b>	Tuvalu (TV)			
<b>232</b>	Uganda (UG)			
<b>233</b>	Ukraine (UA)			
<b>234</b>	United Arab Emirates (AE)			
<b>235</b>	United Kingdom of Great Britain and Northern Ireland (UK)		UK instead of GB	UK instead of GB

<b>236</b>	United States Minor Outlying Islands (UM)			
<b>237</b>	United States of America (US)			
<b>238</b>	Uruguay (UY)			
<b>239</b>	Uzbekistan (UZ)			
<b>240</b>	Vanuatu (VU)			
<b>241</b>	Venezuela (VE)			
<b>242</b>	Viet Nam (VN)			
<b>243</b>	Virgin Islands (British) (VG)			
<b>244</b>	Virgin Islands (U.S.) (VI)			
<b>245</b>	Wallis and Futuna (WF)			
<b>246</b>	Western Sahara (EH)			
<b>247</b>	Yemen (YE)			
<b>248</b>	Zambia (ZM)			
<b>249</b>	Zimbabwe (ZW)			
<b>250</b>	Other			

## Resource TRL

According to Horizon 2020

<b>No.</b>	<b>Technology Readiness Level</b>	<b>Description</b>	<b>Changes v1.13 to v3.00</b>	<b>Changes v1.30 to v3.00</b>	<b>Changes v2.00 to v3.00</b>
<b>1</b>	TRL1	Basic principles observed			



2	TRL2	Technology concept formulated	Use of EU definitions		Use of EU definitions
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 v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
1	Concept	Concept development	Updates in Description	New	Updates in Description
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			

<b>9</b>	Production	Resource available in the live environment			
<b>10</b>	Operation	Resource offered			
<b>11</b>	In containment	Resource active, but generally not available to new users			
<b>12</b>	Retirement	Resource is not anymore offered			
<b>13</b>	Termination	Resource dissolution, dismantling			
<b>14</b>	Other				

#### Resource Funding Body

<b>No.</b>	<b>Funding Body</b>	<b>Changes v1.13 to v3.00</b>	<b>Changes v1.30 to v3.00</b>	<b>Changes v2.00 to v3.00</b>
<b>1</b>	Academy of Finland (AKA) - Finland	New	New	
<b>2</b>	Agency for Environment and Energy Management (ADEME) - France			
<b>3</b>	Agency for Innovation by Science and Technology (IWT) - Belgium			
<b>4</b>	Agency for Science, Innovation and Technology (MITA) - Lithuania			
<b>5</b>	Alfred Wegener Institute for Polar and Marine Research (AWI) - Germany			
<b>6</b>	Alternative Energies and Atomic Energy Commission (CEA) - France			
<b>7</b>	Arts and Humanities Research Council (AHRC) - United Kingdom			
<b>8</b>	Australian Research Council (ARC) - Australia			
<b>9</b>	Austrian Academy of Sciences (OeAW) - Austria			
<b>10</b>	Austrian Research Promotion Agency (FFG) - Austria			
<b>11</b>	Austrian Science Fund (FWF) - Austria			
<b>12</b>	Belmont Forum			

<b>13</b>	Biotechnology and Biological Sciences Research Council (BBSRC) - United Kingdom			
<b>14</b>	Brussels Institute for Research and Innovation (INNOVIRIS) - Belgium			
<b>15</b>	Canadian Institutes of Health Research (CIHR) - Canada			
<b>16</b>	Carlos III Health Institute (ISCIII) - Spain			
<b>17</b>	Center for Industrial Technological Development (CDTI) - Spain			
<b>18</b>	Croatian Science Foundation (CSF) - Croatia			
<b>19</b>	Czech Science Foundation (GACR) - Czechia			
<b>20</b>	Danish Agency for Science and Higher Education (DASHE) - Denmark			
<b>21</b>	Danish Agency for Science, Technology and Innovation (DASTI) - Denmark			
<b>22</b>	Danish Council for Independent Research (DFF) - Denmark			
<b>23</b>	Danish National Research Foundation (DNRF) - Denmark			
<b>24</b>	German Research Foundation (DFG) - Germany			
<b>25</b>	Economic and Social Research Council (ESRC) - United Kingdom			
<b>26</b>	Engineering and Physical Sciences Research Council (EPSRC) - United Kingdom			
<b>27</b>	Estonian Research Council (ETAG) - Estonia			
<b>28</b>	European Comission (EC)			
<b>29</b>	European Space Agency (ESA)			
<b>30</b>	Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI - CNCS) - Romania			
<b>31</b>	Federal Department of Economic Affairs, Education and Research (EAER) - Switzerland			

<b>32</b>	Federal Ministry of Education and Research (BMBF) - Germany			
<b>33</b>	Finnish Funding Agency for Innovation (TEKES)			
<b>34</b>	Flanders Innovation & Entrepreneurship (VLAIO) - Belgium			
<b>35</b>	Fonds National de la Recherche Scientifique (FNRS) - Belgium			
<b>36</b>	Foundation for Fundamental Research on Matter (FOM) - Netherlands			
<b>37</b>	Foundation for Polish Science (FNP) - Poland			
<b>38</b>	General Secretariat for Research and Technology (GSRT) - Greece			
<b>39</b>	Foundation for Science and Technology (FCT) - Portugal			
<b>40</b>	French National Aerospace Research Center (ONERA) - France			
<b>41</b>	French National Research Agency (ANR) - France			
<b>42</b>	French Polar Institute (IPEV) - France			
<b>43</b>	French Research Institute for Exploitation of the Sea (IFREMER) - France			
<b>44</b>	Fritz Thyssen Foundation (FTS) - Germany			
<b>45</b>	General Operational Directorate for Economy, Employment and Research (DGO6) - Belgium			
<b>46</b>	German Aerospace Center (DLR) - Germany			
<b>47</b>	Icelandic Centre for Research (RANNIS) - Iceland			
<b>48</b>	Innovation Fund Denmark			
<b>49</b>	Innovation Fund of the Ministry of Economy of the Slovak Republic (IMSR) - Slovakia			
<b>50</b>	International Science Council (ISC)			
<b>51</b>	Irish Research Council (IRC) - Ireland			

<b>52</b>	Israel Science Foundation (ISF) - Israel			
<b>53</b>	Japanese Science and Technology Agency (JST) - Japan			
<b>54</b>	Japanese Society for the Promotion of Science (JSPS) - Japan			
<b>55</b>	Knowledge Foundation (KKS) - Sweden			
<b>56</b>	Knut and Alice Wallenberg Foundation (KAWS) - Sweden			
<b>57</b>	La Caixa Foundation (CAIXA) - Spain			
<b>58</b>	Malta Council for Science and Technology (MCST) - Malta			
<b>59</b>	Max Planck Society for the Advancement of Science (MPG) - Germany			
<b>60</b>	Medical Research Council (MRC) - United Kingdom			
<b>61</b>	Ministry for Economic Development and Technology (MGRT) - Slovenia			
<b>62</b>	Ministry for Economy and Competitiveness (MINECO) - Spain			
<b>63</b>	Ministry for Education and Scientific Research (MECR) - Romania			
<b>64</b>	Ministry for Education, University and Research (MIUR) - Italy			
<b>65</b>	Ministry of Education, Science and Technological Development of Republic of Serbia (MESTD) - Serbia			
<b>66</b>	Ministry of Higher Education and Research (MESR) - France			
<b>67</b>	Ministry of Science and Education (MSE) - Croatia			
<b>68</b>	Ministry of Science and Technology of the People's Republic of China (MOST) - China			
<b>69</b>	National Aeronautics and Space Administration (NASA) - United States			
<b>70</b>	National Authority for Scientific Research (ANCS) - Romania			
<b>71</b>	National Centre for Research and Development (NCBiR) - Poland			

<b>72</b>	National Centre for Scientific Research (CNRS) - France			
<b>73</b>	National Centre for Space Studies (CNES) - France			
<b>74</b>	National Council for Scientific and Technological Development (CNPq) - Brazil			
<b>75</b>	National Foundation for Research, Technology and Development (OeNFTE) - Austria			
<b>76</b>	National Health and Medical Research Council (NHMRC) - Australia			
<b>77</b>	National institute of Agricultural Research (INRA) - France			
<b>78</b>	National Institute of Health and Medical Research (INSERM) - France			
<b>79</b>	National Institutes of Health (NIG) - United States			
<b>80</b>	National Research Council (CNR) - Italy			
<b>81</b>	National Research Foundation (NRF) - South Africa			
<b>82</b>	National Research Fund (FNR) - Luxembourg			
<b>83</b>	National Research, Development and Innovation Fund (NKFIA) - Hungary			
<b>84</b>	National Science Center (NCN) - Poland			
<b>85</b>	National Science Foundation (NSF) - United States			
<b>86</b>	National University Research Council (CNCSIS) - Romania			
<b>87</b>	Natural Environment Research Council (NERC) - United Kingdom			
<b>88</b>	Natural Sciences and Engineering Research Council of Canada (NSERC) - Canada			
<b>89</b>	Netherlands Organisation for Scientific Research (NWO) - Netherlands			
<b>90</b>	Research Council UK (RCUK) - United Kingdom			

<b>91</b>	Research and Development Agency (APVV) - Slovakia			
<b>92</b>	Research Council of Lithuania (LMT) - Lithuania			
<b>93</b>	Research Council of Norway (RCN) - Norway			
<b>94</b>	Research Foundation Flanders (FWO) - Belgium			
<b>95</b>	Research Promotion Foundation (RPF) - Cyprus			
<b>96</b>	São Paulo Research Foundation (FAPESP) - Brazil			
<b>97</b>	Science and Technology Facilities Council (STFC) - United Kingdom			
<b>98</b>	Science Foundation Ireland (SFI) - Ireland			
<b>99</b>	Scientific and Technological Research Council of Turkey (TUBITAK) - Turkey			
<b>100</b>	Scientific Grant Agency (VEGA) - Slovakia			
<b>101</b>	Secretariat-General for Investment (SGPI) - France			
<b>102</b>	Slovenian Research Agency (ARRS) - Slovenia			
<b>103</b>	Social Sciences and Humanities Research Council (SSHRC) - Canada			
<b>104</b>	Spanish National Research Council (CSIC) - Spain			
<b>105</b>	State Education Development Agency (VIAA) - Latvia			
<b>106</b>	Swedish Energy Agency - Sweden			
<b>107</b>	Swedish Environmental Protection Agency - Sweden			
<b>108</b>	Swedish Foundation for Strategic Environmental Research (MISTRA) - Sweden			
<b>109</b>	Swedish Foundation for Strategic Research (SSF) - Sweden			
<b>110</b>	Swedish Governmental Agency for Innovation Systems (VINNOVA) - Sweden			

<b>111</b>	Swedish National Space Board (SNSB) - Sweden			
<b>112</b>	Swedish Radiation Safety Authority - Sweden			
<b>113</b>	Swedish Reseach Council Formas - Sweden			
<b>114</b>	Swedish Research Council (VR) - Sweden			
<b>115</b>	Swedish Research Council for Health, Working Life and Welfare (FORTE) - Sweden			
<b>116</b>	Swiss National Science Foundation (SNF) - Switzerland			
<b>117</b>	Tara Expeditions Foundation (TARA) - France			
<b>118</b>	Finnish Funding Agency for Technology and Innovation (TEKES) - Finland			
<b>119</b>	Technology Agency of the Czech Republic (TACR) - Czechia			
<b>120</b>	Technology Foundation (STW) - Netherlands			
<b>121</b>	The Danish Council for Independent Research (DDF) - Denmark			
<b>122</b>	The Icelandic Centre for Research (RANNIS) - Iceland			
<b>123</b>	The Ministry of Education, Science, Research and Sports of the Slovak Republic (MSVVaS SR) - Slovakia			
<b>124</b>	The Research Council of Norway - Norway			
<b>125</b>	The Swedish Foundation for Humanities and Social Sciences (RJ) - Sweden			
<b>126</b>	UK Research and Innovation (UKRI) - United Kingdom			
<b>127</b>	Vienna Science and Technology Fund (WWTF) - Austria			
<b>128</b>	Volkswagen Foundation (VS) - Germany			
<b>129</b>	Wellcome trust (WT) - United Kingdom			



<b>130</b>	Other			
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### Resource Funding Program

No.	Funding Program	Changes v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
<b>1</b>	Anti Fraud Information System (AFIS2020)	New	New	New
<b>2</b>	European Agricultural Guarantee Fund (after transfers between EAGF and EAFRD) (AGR)			
<b>3</b>	Net transfer between EAGF and EAFRD (AGRNET)			
<b>4</b>	Asylum, Migration and Integration Fund (AMF)			
<b>5</b>	Rights, equality and citizenship programme (CDF2020)			
<b>6</b>	Connecting Europe Facility (CEF)			
<b>7</b>	Cohesion Fund (CF)			
<b>8</b>	Common foreign and security policy (CFSP2020)			
<b>9</b>	Contribution from the Cohesion Fund to the CEF programme (CF_DET)			
<b>10</b>	Europe for Citizens (CIT2020)			
<b>11</b>	Competitiveness (more developed regions) (COMPREG)			
<b>12</b>	Consumer programme (CONS)			
<b>13</b>	European Earth Observation Programme (COPERNICUS)			
<b>14</b>	Programme for the competitiveness of enterprises and small and medium-sized enterprises (COSME)			
<b>15</b>	Union Civil Protection Mechanism — Member States (CPM_H3)			
<b>16</b>	Union Civil Protection Mechanism — Outside EU (CPM_H4)			
<b>17</b>	Creative Europe programme (CREA)			

<b>18</b>	Action programme for customs in the European Union (CUST2020)			
<b>19</b>	Development Cooperation Instrument (DCI2020)			
<b>20</b>	The Union programme for education, training, youth and sport (Erasmus+) (E4A)			
<b>21</b>	European Agricultural Fund for Rural Development (after transfers between EAGF and EAFRD) (EAFRD)			
<b>22</b>	European Agricultural Fund for Rural Development (EAFRD2020)			
<b>23</b>	European Agricultural Guarantee Fund (EAGF2020)			
<b>24</b>	Emergency Aid Reserve (EAR2020)			
<b>25</b>	Energy projects to aid economic recovery (EERP)			
<b>26</b>	European Fund for Sustainable Development (EFSD)			
<b>27</b>	European Fund for Strategic Investments (EFSI)			
<b>28</b>	European Globalisation Adjustment Fund (EGF2020)			
<b>29</b>	European Instrument for Democracy and Human Rights (EIDHR2020)			
<b>20</b>	European Maritime and Fisheries Fund (EMFF2020)			
<b>31</b>	European Neighbourhood Instrument (ENI)			
<b>32</b>	European Regional Development Fund (ERDF)			
<b>33</b>	European Solidarity Corps (ESC)			
<b>34</b>	European Social Fund (ESF)			
<b>35</b>	European statistical programme (ESP2017)			
<b>36</b>	European statistical programme (ESP2020)			
<b>37</b>	EU Aid Volunteers initiative (EUAV)			
<b>38</b>	Euratom research and training programme (EURATOM)			

<b>39</b>	Comparison of fingerprints for the effective application of the Dublin Convention (EURODAC2020)			
<b>40</b>	European Union Solidarity Fund (EUSF2020)			
<b>41</b>	European Union Solidarity Fund (EUSF) — Member States (EUSF_H3)			
<b>42</b>	European Union Solidarity Fund (EUSF) — Countries negotiating for accession (EUSF_H4)			
<b>43</b>	Fund for European Aid to the Most Deprived (FEAD)			
<b>44</b>	Food and feed (FF2020)			
<b>45</b>	Specific activities in the field of financial reporting and auditing (FINSER2020)			
<b>46</b>	Action programme for taxation in the European Union (FISC2020)			
<b>47</b>	Implementation and exploitation of European satellite navigation systems (EGNOS and Galileo) (GAL2014)			
<b>48</b>	EU cooperation with Greenland (GRLD2020)			
<b>49</b>	The framework programme for research and innovation (H2020)			
<b>50</b>	Union's action in the field of health (Health programme) (HEALTH)			
<b>51</b>	Programme to promote activities in the field of the protection of the European Union's financial interests (HERC3)			
<b>52</b>	Supplementary high flux reactor (HFR) programmes (HFR2015)			
<b>53</b>	Humanitarian aid (HUMA2020)			
<b>54</b>	Enhancing consumers involvement in EU policy making in the field of financial services (ICFS)			
<b>55</b>	Instrument for emergency support within the Union (IES)			
<b>56</b>	Instrument contributing to Stability and Peace (IFS2020)			
<b>57</b>	Instrument for Nuclear Safety Cooperation (INSC2020)			

<b>58</b>	Instrument for Pre-accession Assistance (IPA2)			
<b>59</b>	Interoperability Solutions for European Public Administrations (ISA2015)			
<b>60</b>	Interoperability Solutions for European public administrations, businesses and citizens (ISA2020)			
<b>61</b>	Internal Security Fund (ISF)			
<b>62</b>	International thermonuclear experimental reactor (ITER)			
<b>63</b>	Justice programme (JUST)			
<b>64</b>	Programme for the Environment and Climate Action (LIFE2020)			
<b>65</b>	Guarantee Fund for external actions (LOAN2020)			
<b>66</b>	Macro financial assistance (MFA)			
<b>67</b>	Nuclear decommissioning assistance programmes in Bulgaria, Lithuania and Slovakia (ND)			
<b>68</b>	Outermost and sparsely populated regions (OUTREG)			
<b>69</b>	Exchange, assistance and training programme for the protection of the euro against counterfeiting (PERI2020)			
<b>70</b>	Partnership instrument for cooperation with third countries (PI)			
<b>71</b>	European Union programme for employment and social innovation (PSCI)			
<b>72</b>	Regional convergence (less developed regions) (REGCONV)			
<b>73</b>	Compulsory contributions to regional fisheries management organisations (RFMOs) and to other international organisations			
<b>74</b>	Sustainable Fisheries Partnership Agreements (SFPAs)			
<b>75</b>	Schengen Information System (SIS2020)			
<b>76</b>	Technical assistance and innovative actions (TA_IA)			

<b>77</b>	Instrument of financial support for encouraging the economic development of the Turkish Cypriot community (TCC)			
<b>78</b>	European territorial cooperation (TERRCOOP)			
<b>79</b>	Transition regions (TRANSREG)			
<b>80</b>	Visa Information System (VIS2020)			
<b>81</b>	Youth employment initiative (specific top-up allocation) (YEI)			
<b>82</b>	Other			

#### Resource Order Type

<b>No.</b>	<b>Request/Order Type</b>	<b>Description</b>	<b>Changes v1.13 to v3.00</b>	<b>Changes v1.30 to v3.00</b>	<b>Changes v2.00 to v3.00</b>
<b>1</b>	Request/Order required	Resource requires an ordering procedure	New	New	
<b>2</b>	Open access	No ordering procedure necessary to access the resource but requires user authentication			
<b>3</b>	Fully open access	No ordering procedure necessary to access the resource and no user authentication required			
<b>4</b>	Other				