EOSC Profiles

Release	v3.00
Status	FINAL Pending EOSC Enhance PMB Approval
Contributors	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.
Credits	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, the EOSC Portal collaboration agreement of eInfraCentral, EOSC-hub and OpenAIRE-Advance and the EOSC Enhance project that has received funding from European Union's Horizon 2020 research and innovation programme under grant agreement No 871160.
Licences	This work is licensed under a Creative Commons Attribution 4.0 International License $(\underline{CC-BY})$ by JNP. The information contained in this document is provided by the copyright holders "as is" and any express or implied warranties, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose are disclaimed. In no event shall the authors or the European Commission be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, procurement of substitute goods or services; loss of use, data, or profits; or business interruption) however caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of the information contained in this document, even if advised of the possibility of such damage.
References	https://confluence.egi.eu/x/K4PeAw
Acronyms	https://confluence.egi.eu/x/d4PeAw
Definitions	https://confluence.egi.eu/x/coPeAw
Report Bug, Imporvement	https://jira.egi.eu/projects/EOSCENIT/issues/EOSCENIT-1?filter=allopenissues or enhanceeosc@jnp.gr

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.

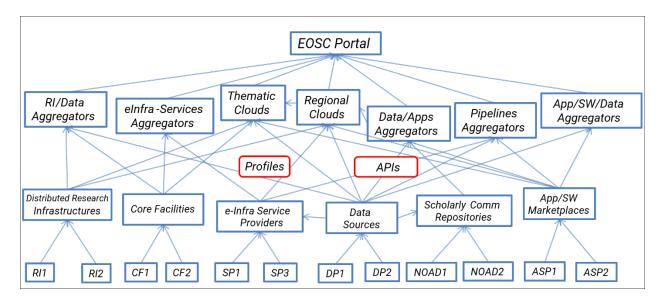
European Researchers increasingly live, work, and conduct research across borders. Their increased mobility must be supported by cross-border services and seamless exchange of data. Unfortunately, the environment in which data exchange takes place amongst EU Member States is complex, creating many semantic 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 Servicerelated 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 syntaxneutral 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 EOSChub 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 transfered and developed further under EOSC Enhance in collaboration with EOSC-hub and in partnership with the ESFRI Cluster projects: ENVRI-FAIR, PaNOSC, ESCAPE, SSHOC and EOSC-Life.

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

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, Distributes Research Infrastructures, Resource Aggregators, Thematic Clouds, Regional Clouds*, etc. More definitions here.

Data Model

Basic Informa	ation								
Code	Attribute Name	Definition	Type Multiplicity		Required	Public			
EPP.BAI.0	ID	A persistent identifier, a unique reference to the Provider in the context of the EOSC Portal.	String (max 30)	1	Mandatory	Yes			
EPP.BAI.1	Name	Full Name of the Provider offering the resource and acting as main contact point.	String (max 100)	1	Mandatory	Yes			
EPP.BAI.2	Abbreviation	Abbreviation or short name of the Provider.	String (max 30)	1	Mandatory	Yes			
EPP.BAI.3	Website	Webpage with information about the Provider.	URL	URL 1		Yes			
EPP.BAI.4	Legal Entity	A Y/N question to define whether the Provider is a Legal Entity or not.	Boolean	1	Mandatory	Yes			
EPP.BAI.5	Legal Status	Legal status of the Provider. The legal status is usually noted in the registration act/statutes. For independent legal entities (1) - legal status of the Provider. For embedded providers (2) - legal status of the hosting legal entity. It is also possible to select Not a legal entity.	List of controlled values: <u>EPP: EOSC Provider</u> <u>Profile#Provider</u> <u>Legal Status</u>	1	Optional	Yes			
Marketing In	Marketing Information								
Code	Attribute Name	Definition	Туре	Multiplicity	Required	Public			

			~			
EPP.MRI.1	Description	The description of the Provider.	String (max 1000)	1	Mandatory	Yes
EPP.MRI.2	Logo	Link to the logo/visual identity of the Provider.	URL 1		Mandatory	Yes
EPP.MRI.3	Multimedia	Link to video, slideshow, photos, screenshots with details of the Provider.			Optional	Yes
Classification	Information					
Code	Attribute Name	Definition	Туре	Multiplicity	Required	Public
EPP.CLI.1	Scientific Domain	A named group of providers that offer access to the same type of resource or capabilities.			Optional	Yes
EPP.CLI.2	Scientific Subdomain	A named group of providers that offer access to the same type of resource or capabilities, within the defined domain.	List of controlled values: <u>EPP: EOSC Provider</u> <u>Profile#Provider</u> <u>Scientific Domain</u>	Multiple	Optional	Yes
EPP.CLI.3	Tags	Keywords associated to the Provider to simplify search by relevant keywords.	String (max 20)	Multiple	Optional	Yes
Location Info	rmation					
Code	Attribute Name	Definition	Туре	Multiplicity	Required	Public
EPP.L0I.1	Street Name and Number	Street and Number of incorporation or Physical location of the Provider or its coordinating centre in the case of distributed, virtual, and mobile providers.	String (max 50) 1		Mandatory	Yes
EPP.L0I.2	Postal Code	Postal code of incorporation or Physical location of the Provider or its coordinating centre in the case of distributed, virtual, and mobile providers.String (max 20)1		Mandatory	Yes	

EPP.L0I.3	City	City of incorporation or Physical location of the Provider or its coordinating centre in the case of distributed, virtual, and mobile providers.			Mandatory	Yes			
EPP.L0I.4	Region	Region of incorporation or Physical location of the Provider or its coordinating centre in the case of distributed, virtual, and mobile providers.	String (max 50)	1	Optional	Yes			
EPP.L0I.5	Country	Country of incorporation or Physical location of the Provider or its coordinating centre in the case of distributed, virtual, and mobile providers.			Mandatory	Yes			
Contact Infor	mation			1		1			
Main Contact	/Provider Manag	ger							
Code	Attribute Name	Definition	Туре	Multiplicity	Required	Public			
EPP.COI.1	First Name	First Name of the Provider's main contact person/Provider manager.	String (max 50)	1	Mandatory	No			
EPP.COI.2	Last Name	Last Name of the Provider's main contact person/Provider manager.	String (max 50)	1	Mandatory	No			
EPP.COI.3	Email	Email of the Provider's main contact person/Provider manager.	Email	1	Mandatory	No			
EPP.COI.4	Phone	Phone of the Provider's main contact person/Provider manager.	String (max 20)	1	Optional	No			
EPP.COI.5	Position	Position of the Provider's main contact person/Provider manager.	contact String (max 50) 1		Optional	No			
Public Contac	Public Contact								
Code	Attribute Name	Definition	Туре	Multiplicity	Required	Public			

First Name	First Name of the Provider's contact person to be displayed at the portal.	person to be String (max 20) 1		Optional	Yes				
Last Name	Last Name of the Provider's contact person to be displayed at the portal.	String (max 20)	1	Optional	Yes				
Email	displayed at the portal or general email to contact Email		1	Mandatory	Yes				
Phone	Phone of the provider's contact person to be displayed at the portal or general phone to contact Provider.	String (max 20) 1		Optional	Yes				
Position	Position of the Provider's contact person to be displayed at the portal.	String (max 50)	1	Optional	Yes				
rmation									
Attribute Name	Definition	Туре	Multiplicity	Required	Public				
Life Cycle Status	Current status of the Provider/Research infrastucture List of controlled values: EPP: EOSC Provider 1 Profile#Provider Life Cycle Status		1	Optional	Yes				
Certifications	List of certifications obtained for the Provider (including the certification body and any certificate number).	String (max 250) Multiple		Optional	Yes				
Other Information									
Attribute Name	Definition	Туре	Multiplicity	Deguined	Public				
	Last Name Email Phone Position Attribute Name Life Cycle Status Certifications ation	First Namedisplayed at the portal.Last NameLast Name of the Provider's contact person to be displayed at the portal.EmailEmail of the Provider's contact person to be displayed at the portal or general email to contact Provider.PhonePhone of the provider's contact person to be displayed at the portal or general phone to contact Provider.PositionPosition of the Provider's contact person to be displayed at the portal.rmationDefinitionLife Cycle StatusCurrent status of the Provider/Research infrastucture life-cycle.Life Cycle statusList of certifications obtained for the Provider (including the certification body and any certificate number).	First Namedisplayed at the portal.String (max 20)Last NameLast Name of the Provider's contact person to be displayed at the portal.String (max 20)EmailEmail of the Provider's contact person to be displayed at the portal or general email to contact Provider.EmailPhonePhone of the provider's contact person to be displayed at the portal or general phone to contact Provider.String (max 20)PositionPosition of the provider's contact person to be displayed at the portal or general phone to contact Provider.String (max 50)Mattribute NamePosition of the Provider's contact person to be displayed at the portal.String (max 50)Itife Cycle StatusCurrent status of the Provider/Research infrastucture life-cycle.List of controlled values: EPP: EOSC Provider Provider Life Cycle StatusCertificationsList of certifications obtained for the Provider (including the certification body and any certificate number).String (max 250)	First Namedisplayed at the portal.String (max 20)1Last NameLast Name of the Provider's contact person to be displayed at the portal.String (max 20)1EmailEmail of the Provider's contact person to be displayed at the portal or general email to contact Provider.Email1PhonePhone of the provider's contact person to be displayed at the portal or general email to contact Provider.String (max 20)1PhonePhone of the provider's contact person to be displayed at the portal or general phone to contact Provider.String (max 20)1PositionPosition of the Provider's contact person to be displayed at the portal.String (max 50)1TurationTypeMultiplicityAttribute NameCurrent status of the Provider/Research infrastructure life-cycle.List of controlled values: EPP: EOSC Provider Provider Life Cycle Status1CertificationsList of certifications obtained for the Provider (including the certification body and any certificate number).String (max 250)Multiplic	First Namedisplayed at the portal.String (max 20)1OptionalLast NameLast Name of the Provider's contact person to be displayed at the portal.String (max 20)1OptionalEmailEmail of the Provider's contact person to be displayed at the portal or general email to contact Provider.Email1MandatoryPhonePhone of the provider's contact person to be displayed at the portal or general phone to contact Provider.String (max 20)1OptionalPhonePhone of the provider's contact person to be displayed at the portal or general phone to contact Provider.String (max 50)1OptionalPositionPosition of the Provider's contact person to be displayed at the portal.String (max 50)1OptionalMultiplicityRequiredImationTypeMultiplicityRequiredLife Cycle StatusCurrent status of the Provider/Research infrastucture ife-cycle.List of certifications obtained for the Provider (including the certification body and any certificate number).String (max 250)MultipleOptionalCertificationsList of certifications obtained for the Provider (including the certification body and any certificate number).String (max 250)MultipleOptionalOptionalOptionalString (max 250)MultipleOptionalImationImationImationImationImationList of certifications obtained for the Provider (including the certification body and any certificate number).String (max 250)MultipleOpti				

EPP.OTH.1	Hosting Legal Entity			1	Optional	Yes
EPP.OTH.2	Participating Countries	Providers/Research Infrastructures that are funded by several countries should list here all supporting countries (including the Coordinating country).	List of controlled values: EPP: EOSC Provider <u>Profile#Provider</u> <u>Country</u>	Multiple	Optional	Yes
EPP.OTH.3	Affiliations	Providers that are members or affiliated or associated with other organisations should list those organisations here	String (max 30)	Multiple	Optional	Yes
EPP.OTH.4	Networks	Select the networks the Provider is participating in.	List of controlled values: EPP: EOSC Provider <u>Profile#Provider</u> <u>Networks</u>	Multiple	Optional	Yes
EPP.OTH.5	Structure Type			Multiple	Optional	Yes
EPP.OTH.6	ESFRI Domain	ESFRI domain classification.	List of controlled values: <u>EPP: EOSC Provider</u> <u>Profile#Provider</u> <u>ESFRI Domain</u>	Multiple	Optional	Yes

EPP.OTH.7	ESFRI TypeIf 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: EPP: EOSC Provider <u>Profile#Provider</u> <u>ESFRI Type</u>	1	Optional	Yes
EPP.OTH.8	MERIL Scientific Domain	MERIL scientific domain classification List of controlled Values: MERIL Scientific Domain Scientific Domain		Multiple	Optional	Yes
EPP.OTH.9	MERIL Scientific Subdomain	MERIL scientific subdomain classification	MERIL scientific subdomain classification List of controlled values: MERIL Scientific Domain		Optional	Yes
EPP.OTH.10	Areas of Activity	FPP· F()S('Provider		Multiple	Optional	Yes
EPP.OTH.11	Societal Grand Challenges Provider's participation in the grand societal challenges as defined by the European Commission List of controlled values: EPP: EOSC Provider Profile#Provider Societal Grand Challenges		Multiple	Optional	Yes	
EPP.OTH.12	National Roadmaps	Provider being part of a national roadmap for research infrastructures	String (max 80)	Multiple	Optional	Yes

Onboarding Guide

Basic Informa	ntion				
Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
EPP.BAI.0	ID	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).		
EPP.BAI.1	Name	Open Access Infrastructure for Research in Europe			Verify via internet searching if the Provider name is a valid organisation name and has a Website with the same FQDN.
EPP.BAI.2	Abbreviation	OpenAIRE			Verify via internet searching that this is the relevant abreviation (no typos or mispellings)

EPP.BAI.3	Website	https://www.openaire.eu	Provide the landing page (i.e. domain name or FQDN) of the sevice provider	Validate nominal FQDN, reject IP or other formats	
EPP.BAI.4	Legal Entity	Y			
EPP.BAI.5	Legal Status	Non-Profit Partnership (NPP)			
Marketing Inf	formation				
Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
EPP.MRI.1	Description	OpenAIRE represents a pivotal phase in the long- term effort to implement and strengthen the impact of the Open Access policies of the European Commission, building on the achievements of the OpenAIRE projects. OpenAIRE support and accelerate Open 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.

EPP.MRI.2	Logo	https://www.openaire.eu/i mages/OpenAIRE_brandin g/Logo_Horizontal.png	Provide a URL pointing to the organisation's logo at high quality, in the form of the shortest possible alias	Validate nominal URL, reject IP or other formats For the resource located at the URL validate as follows: -Formats: png, gif, jpg, jpeg, pjpeg, tiff, vnd.adobe, vnd.microsoft -Minimum dimensions 180x120px	
EPP.MRI.3	Multimedia	https://vimeo.com/108790 101	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	
Classification	Information				
Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
EPP.CLI.1	Scientific Domain	Information Science and Technology			
EPP.CLI.2	Scientific Subdomain	Complex Data Facilities			
EPP.CLI.3	Tags	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	

Location Info	rmation				
Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
EPP.L0I.1	Street Name and Number	Christou Lada			
EPP.L0I.2	Postal Code	10561			
EPP.LOI.3	City	Athens			
EPP.L0I.4	Region	Attica			
EPP.L0I.5	Country	Greece			
Contact Infor	mation				
Main Contact	/Provider Manag	ger			
Code	Attribute Name	Example Value	Guidelines for the Providers	Machine-based validation	Human-based validation
EPP.COI.1	First Name	Minos			
EPP.COI.2	Last Name	Hantzopoulos			Check for obvious typos in the name. Confirm with a google search of the name and provider
EPP.COI.3	Email	minos@uniath.gr		Validate e-mail address	
EPP.COI.4	Phone	3021077755500		Validate for number (use separate input field for country prefixes)	
EPP.COI.5	Position	Coordinator			
Public Contac	t	1		1	1

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

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

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

Transition Guide

Basic Informa	ntion						
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
EPP.BAI.0	ID	No Change	Сору	New	ID should be compliant to the Providers' IDs	No Change	Сору
EPP.BAI.1	Name	No Change	Сору	Change Attribute Name (old Service Provider Name) Change Type (old Single Line)	Сору	Change Attribute Name (old Full Name) Change length (old max 80)	Сору
EPP.BAI.2	Abbreviation	New	Default value empty(null)	New	Default value empty(null)	Change Attribute Name (old Acronym) Change length (old max 20)	Сору
EPP.BAI.3	Website	Change Attribute Name (old URL)	Сору	Change Attribute Name (old Service Provider URL)	Сору	No Change	Сору
EPP.BAI.4	Legal Entity	New	Default value "Y"	New	Default value "Y"	New	Default value "Y"

EPP.BAI.5	Legal Status	New	Default value "Other"	New	Default value "Other"	Moved from Other Information Block	Сору			
Marketing Inf	Marketing Information									
Code	Attribute Name	Changes v1.13 to v3.00	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			
		(eInfraCentral)	2 10 12.00			(cuilds)				
EPP.MRI.1	Description	Change to Mandatory	<i>Copy</i> or if empty Default value empty(nu ll)	Change Attribute Name (old Service Provider Description) Change Type (old Freetext) Change to Mandatory	Copy or if empty Default value "-"	No Change	Сору			
EPP.MRI.2	Logo	Change to Mandatory	<i>Copy</i> or if empty URL to default EOSC Provider Logo	Change Attribute Name (old Service Provider Logo)	Copy or if empty URL to default EOSC Provider Logo	No Change	Copy or if empty URL to default EOSC Provider Logo			
EPP.MRI.3	Multimedia	New	Default value empty(null)	New	Default value empty(null)	No Change	Сору			

Classification	Information						
Code	Attribute Name	Changes v1.13 to v3.00	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
		(eInfraCentral)	5 10 75.00	nuo)	V1.50 to V5.00	(CatRIS)	10 \$3.00
EPP.CLI.1	Scientific Domain	New	Default value "Other"	New	Default value "Other"	Change to Optional	Сору
EPP.CLI.2	Scientific	New	Default value	New	Default value	Change Name (old Category)	Сору
	Subdomain	THEW	"Other"	THEW	"Other"	Change to Optional	Copy
EPP.CLI.3	Tags	New	Default value empty(null)	Change Attribute Name (old Service Tags)	Default value empty(null)	No Change	Сору
Location Info	rmation						
Code	Attribute Name	Changes v1.13 to v3.00	Registry Transition v1.1	Changes v1.30 to v3.00 (EOSC-	Registry Transition MP	Changes v2.00 to v3.00	Registry Transition v2.00
		(eInfraCentral)	3 to v3.00	hub)	v1.30 to v3.00	(CatRIS)	to v3.00
						Change length (old max 20)	
EPP.L0I.1	Street Name and Number	New	Default value "_"	New	Default value "-"	Change Attribute Name (old Location Street + Location Number)	Сору

EPP.L0I.2	Postal Code	New	Default value	New	Default value "-"	Change Attribute Name (old Location Postal Code)	Сору
EPP.L0I.3	City	New	Default value "_"	New	Default value "-"	Change Attribute Name (old Location City)	Сору
EPP.L0I.4	Region	New	Default value empty(null)	New	Default value empty(null)	Change length (old max 20) Change Attribute Name (old Location Region) Change to Optional	Сору
EPP.L0I.5	Country	New	Default value "Other"	Change Type (old Single Line)	Сору	Change Attribute Name (old Coordinating Country)	Сору
Contact Inform	mation						
Main Contact/I	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

EPP.COI.1	First Name	No Change	Сору	Change Attribute Name (old Service Provider Contact Name) Change Type (old Single Line)	Copy only First Name	Change length (old max 20) Change Attribute Name (old Contact-1 First Name)	Сору
EPP.COI.2	Last Name	No Change	Сору	Change Attribute Name (old Service Provider Contact Name) Change Type (old Single Line)	Copy only Last Name	Change length (old max 20) Change Attribute Name (old Contact-1 Last Name)	Сору
EPP.COI.3	Email	No Change	Сору	Change Attribute Name (old Service Provider Contact Email)	Сору	Change Attribute Name (old Contact-1 Email)	Сору
EPP.COI.4	Phone	No Change	Default value empty(null)	New	Default value empty(null)	Change to Optional Change Attribute Name (old Contact-1 Telephone)	Сору
EPP.COI.5	Position	New	Default value empty(null)	New	Default value empty(null)	Change length (old max 20) Change Attribute Name (old Contact-1 Position)	Сору

Public Contac	t						
Code	Attribute Name	Changes v1.13 to v3.00	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
		(eInfraCentral)				(00000)	
EPP.COI.6	First Name	New	Default value empty(null)	New	Default value empty(null)	Change Attribute Name (old Contact-2 First Name)	Сору
EPP.COI.7	Last Name	New	Default value empty(null)	New	Default value empty(null)	Change Attribute Name (old Contact-2 Last Name)	Сору
EPP.COI.8	Email	New	Default value info@[Provider Domain] or if difficult "-"	New	Default value info@[Provider Domain] or if difficult "-"	Change Attribute Name (old Contact-2 Email) Change to Mandatory	Copy or if null insert info@[Provider Domain] or if difficult "-"
EPP.COI.9	Phone	New	Default value empty(null)	New	Default value empty(null)	Change Attribute Name (old Contact-2 Phone)	Сору
EPP.COI.10	Position	New	Default value empty(null)	New	Default value empty(null)	Change length (old max 20) Change Attribute Name (old Contact-2 Position)	Сору

Maturity Info	rmation						
Code	Attribute Name	Changes v1.13 to v3.00	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
		(eInfraCentral)	5 10 75.00	nuo)	V1.50 to V5.00	(CatRis)	10 13.00
EPP.MTI.1	Life Cycle Status	New	Default value "Other"	New	Default value "Other"	Change to Optional	Сору
EPP.MTI.2	Certifications	New	Default value empty(null)	Change Attribute Name (old Service Provider certifications) Change Type (old Freetext)	Copy or Default value empty(null)	New	Default value empty(null)
Other Inform	ation	<u> </u>	I	<u> </u>	<u> </u>	<u> </u>	
Code	Attribute Name	Changes v1.13 to v3.00	Registry Transition v1.1	Changes v1.30 to v3.00 (EOSC-	Registry Transition MP	Changes v2.00 to v3.00	Registry Transition v2.00
		(eInfraCentral)	3 to v3.00	hub)	v1.30 to v3.00	(CatRIS)	to v3.00
EPP.OTH.1	Hosting Legal Entity	New	Default value empty(null)	New	Default value empty(null)	No change	Сору
EPP.OTH.2	Participating Countries	New	Default value "Other"	New	Default value "Other"	Moved from Classification Information Block	Сору
EPP.OTH.3	Affiliations	New	Default value empty(null)	Change Type (old Freetext)	Copy or Default value empty(null)	New	Default value empty(null)

EPP.OTH.4	Networks	New	Default value "Other"	New	Default value "Other"	No change	Сору
EPP.OTH.5	Structure Type	New	Default value "Other"	New	Default value "Other"	Change Attribute Name (old Type) Moved from Classification Infromation Block Change to	Сору
						Optional	
EPP.OTH.6	ESFRI Domain	New	Default value "Other"	New	Default value "Other"	Moved from Classification I nformation Block	Сору
EPP.OTH.7	ESFRI Type	New	Default value "Other"	New	Default value "Other"	Change Attribute Name (old ESFRI)	Сору
EPP.OTH.8	MERIL Scientific Domain	New	Default value empty(null)	New	Default value empty(null)	Moved from Classification Information Block	Сору
EPP.OTH.9	MERIL Scientific Subdomain	New	Default value empty(null)	New	Default value empty(null)	Moved from Classification Information Block	Сору
EPP.OTH.10	Areas of Activity	New	Default value "Other"	New	Default value "Other"	No change	Сору

EPP.OTH.11	Societal Grand Challenges	New	Default value "Other"	New	Default value "Other"	No change	Сору
EPP.OTH.12	National Roadmaps	New	Default value empty(null)	New	Default value empty(null)	Change Type (old controlled	

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			
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	New		
9	Non-Governmental Organisation		New	
10	Non For Profit Company			
11	Partnership			
12	Private Company			
13	Public Company			
14	Public Legal Entiry			
15	Public Legal Entiry under Private Law			
16	Self Employed			
17	Society			

18	Trust		
19	Union		
20	Not a Legal Entity		Added
21	Other		

Provider Scientific Domain / Subdomain

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

No.	Scientific Domain	No.	Scientific Subdomain	Changes v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
		1	Mathematics			
		2	Computer and information sciences			
		3	Physical sciences			
1	Natural Sciences	4	Chemical sciences			
		5	Earth and related environmental sciences			
		6	Biological sciences	-		Change to EOS
		7	Other natural sciences	New	New	Change to FOS 2017
		1	Civil engineering			
	Engineering &	2	Electrical, electronic and information engineering			
2	Technology	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	3	Health sciences
	Sciences	4	Medical biotechnology
		5	Other medical sciences
		1	Agriculture, forestry, and fisheries
		2	Animal and dairy sciences
4	Agricultural Sciences	3	Veterinary sciences
		4	Agricultural biotechnology
		5	Other agricultural sciences
		1	Psychology
		2	Economics and business
		3	Educational sciences
5	Social Sciences	4	Sociology
		5	Law
		6	Political sciences

		7	Social and economic geography
		8	Media and communications
		9	Other social sciences
		1	History and archaeology
		2	Languages and literature
6	Humanities	3	Philosophy, ethics and religion
		4	Arts
		5	Other humanities
7	Generic	1	Generic
8	Other	1	Other

Provider Country

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

No.	Country	Changes v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
1	Afghanistan (AF)			
2	Åland Islands (AX)			
3	Albania (AL)	New		
4	Algeria (DZ			
5	American Samoa (AS)			

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

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

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

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

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

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

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

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

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

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

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

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

Provider Life Cycle Status

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

Provider Network

This list is based on a <u>MERIL</u> 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)			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)	New	New	
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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Provider Structure Type

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

Provider ESFRI Domain

	ESFRI	escription	Changes	Changes	Changes
No.	Domain	Description	v1.13 to		
	Domain		v3.00	v3.00	v3.00

1	Energy	The energy sector is key to social and economic development. Especially in some non- OECD countries the energy sector sees very high growth rates due to rising GDP. However, it contributes significantly to global 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.			
2	Environment	Environmental sciences are traditionally divided into four research and study domains: ATMOSPHERE, HYDROSPHERE, BIOSPHERE and GEOSPHERE. These different spheres are closely interlinked, and therefore environmental sciences can also be presented according to Grand Challenges, such as loss of biodiversity, pollution, depletion of natural resources, risks, hazards and climate change.			
3	Health & Food	There is a broad consensus that future competitiveness in a globalised knowledge economy depends on research capability. Research Infrastructures (RIs) in the Biological, Agri-Food and Medical Sciences – i.e. Health & Food – continue to establish themselves as research, innovation and skills hubs and as a motor for economic impact. This is reflected in increasing levels of industrial access to RIs, and in their European and global positioning.	New	New	
4	Physical Sciences & Engineering	Research Infrastructures are integral part of the dayto-day activity of Physical Sciences & Engineering. Historically and today the PSE RIs are integrated in the way research is done in these disciplines, and major advances in knowledge are achieved by the research performed at RIs. However, the RIs are much more than research tools; they are truly Hubs of Knowledge & Innovation with a complete multidisciplinary approach and a systematic impact on many areas beyond Physical Sciences and Engineering.			
5	Social & Cultural Innovation	Research Infrastructures that support research across and within the Social & Cultural Innovation domain are among the first known infrastructures: libraries, museums and archives are the most obvious examples of this legacy. In today's digital age, Research Infrastructures in the Social Sciences and Humanities (SSH) enhance research into the historical, social, economic, political and cultural contexts of the European Union, providing data and knowledge to support its strategies.			

6	Data, Computing and Digital Research Infrastructures	In research, as in all fields of society, Information and Communications Technology (ICT) has become a key enabling factor for progress. ICT is also changing the modus operandi of research by providing new possibilities for geographically distributed collaboration and sharing. Data-driven science, as well as more and more open access to data and scientific results, is transforming not only how research is conducted, but its overall reach.		
7	Other			

Provider ESFRI Type

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

Provider MERIL Scientific Domain / Subdomain

This list is based on a <u>MERIL</u> result.

No.	Scientific Domain	No.	Scientific Subdomain		v1.13 to	Changes v1.30 to v3.00	0	
-----	----------------------	-----	----------------------	--	----------	------------------------------	---	--

	Biological &	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.			
1	Medical Sciences	2	Animal Facilities	Facilities that provide husbandry of animals and services to the biomedical research community, usually equipped with highly automated systems that provide the best possible conditions for animal reproduction and maintenance. The main activity is the reproduction and maintenance of animal stocks either of inbred strains or genetically engineered animals, such as transgenic and knockout mouse lines, or even chemically-induced mutants.	New	New	

3	Collections of Biological Resources (e.g. Microorganisms, Biobanks and Seed Banks)	Facilities for storage of collections of microorganisms, biological material and the associated data and information facilities for a population or a large subset of a population, maintained under controlled conditions (temperature, humidity, atmosphere, etc.). The biological resources, including microorganisms, human/animal cells, tissue, blood and DNA, seeds of crops, trees and wild plant species, are conserved for their genetic endowment. Databases established on these provide holistic information on each accession with scientific descriptors, ethno-botanical/ zoological/microbiological/medical knowledge, including for the purpose of establishing intellectual property rights and ownership over the biomaterial stored		
4	Bio-Informatics Facilities	Bioinformatics facilities generate knowledge through computer analysis of biological data. These can consist of the information stored in the genetic code, but also experimental results from various sources, patient statistics, and scientific literature. Research in bioinformatics includes method development for storage, retrieval, and analysis of the data. Bioinformatics is a rapidly developing branch of biology and is highly interdisciplinary, using techniques and concepts from informatics, statistics, mathematics, chemistry, biochemistry, physics, and linguistics. It has many practical applications in different areas of biology and medicine.		

	5	Biological/Biomedical Engineering and Biotechnology/Nanotechnology Research Facilities	Facilities that are dedicated to application of concepts and methods of bioscience and/or nanoscience, and/or use of living systems and organisms to develop solutions to problems in life- and preclinical sciences using engineering methodologies.		
	6	Biomedical Imaging Facilities	Facilities which are equipped for visualisation, characterisation, and measurement of biological processes at the cellular and tissue levels in humans and other living systems.		
	7	Cell Culture Facilities	Facilities that are equipped to provide robust support for isolation and culture of a variety of cell lines (like mammalian and insect cell lines, mouse and human embryonic stem cells), including serum preparation, feeders, growth factors and mycoplasma testing, this may be on serum-based or serum-free media.		
-	8	Clinical Research Centres	Facilities that support patient-oriented research, involving a particular person or group of people or using materials from humans. This research can include: studies of mechanisms of human disease; studies of therapies or interventions for disease; clinical trials; studies to develop new technology related to disease.		

	10	Environmental Health Research Facilities	Environmental health research addresses all potential hazards caused to a human being or an animal by external physical, chemical, and biological factors, and all the related factors impacting behaviours. It encompasses the assessment and control of those environmental factors that can potentially affect health. It is targeted towards preventing disease and creating health-supportive environments. This definition excludes behaviour not related to environment, as well as behaviour related to the social and cultural environment, and genetics. This category includes toxicology and infectious diseases facilities as well as epidemiological study centres.	
	11	Genomic, Transcriptomic, Proteomics and Metabolomics Facilities	Multiple sites ranging from single laboratory DNA sequencing and RNA transcript analysis facilities run by biologists for their own department's research to high-throughput facilities aimed at providing a sophisticated service for a broad community of biologists run by informaticians, biologists and engineers. Proteomics: physical chemistry developments for clinical and biological applications getting access to proteins network linked to the physiological and pathological stated of the cells. This includes nutrigenomics research.	
	12	Structural Biology Facilities	Facilities which are equipped for visualisation, characterisation, and measurement of biological processes at the molecular level in humans and other living systems. Main technologies include protein crystallisation, X-ray diffraction, mass spectrometry, DSC.	

13	Systems Biology/Computational Biology Facilities	Laboratories that combine all relevant scientific disciplines and the know-how to integrate experimental data with computational and theoretical approaches with the aim of targeting, understanding and engineering pathways, cells, organs and complete organisms.		
14	Telemedicine Laboratories and E-Health Technologies	E-Health is an emerging concept relating to the use of networked digital ICTs (primarily the Internet) to facilitate the organisation & delivery of health care and services. It encompasses applications for providers and organisations (e.g. for storing, exchanging and using clinical or administrative data, or aiding evidence-based practice) and for citizens and patients (e.g. web- based health information, education, virtual consulting), as well as research applications of e- Health technologies.		
15	Translational Research Centres	Translational Research Centres support the integration of evidence based medicine, social sciences and political sciences with the aim of optimising patient care and preventive measures which may extend beyond healthcare services. This is the process of turning appropriate biological discoveries into drugs and medical devices that can be used in the treatment of patients.		
16	Other			

	emistry and	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.					
	Material Sciences	2	Chemical Libraries and Screening Facilities	Digital libraries related to chemistry as well as screening facilities.	-				
					3	Intense Light Sources	All facilities that provide access to intense light radiation sources as used for lasers, synchrotrons, Free Electron Lasers. The facilities are relevant to the scientific domains of Physics, Chemistry, Bio-Medical Sciences, Earth and Environmental Sciences, Humanities & Arts, Information Science & Technology; Laser Sources for materials synthesis laboratories; Laser Sources for spectroscopy laboratories; Synchrotron Light Sources and X-Ray Diffraction Facilities.		
		4	Intense Neutron Sources	Accelerator-based neutron source facility that provides the intense pulsed neutron beam.					

		5	Materials Synthesis or Testing Facilities	All single or multi sited facilities run by engineers and materials scientists to process or test materials with regard to predefined specifications. It includes testing and processing equipment, structural and properties characterization instruments. The facilities are relevant to the scientific domains of Engineering, Materials Sciences, Physics, and Chemistry.		
		6	Pilot Plants for Process Testing	Plants where processes in biological or chemical systems, including bioenergy/biorefinery research and food processing research, are tested on a pilot level scale. Biology, Chemistry.		
		7	Reference Material Repositories	Facilities providing materials with at least one standardised and fully described property that can be used in measurements e.g. as a standard for calibration of instruments or as reference for measuring other materials.		
		8	Other			
3	Earth and Environmental Sciences	1	Acoustic Monitoring Stations	Non audible very low frequency waves infrasound stations, (volcano meteors monitoring, avalanches, landslides) ; audible frequency stations and hydro acoustic stations (marine mammals, multi-beam, acoustic tomography, echosounders, sodar); high frequency stations (T-phase stations).		

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

	6	Environmental Management Infrastructures	Pilot facilities and experimental infrastructures for management, ecological restoration and environmental mitigation of terrestrial and aquatic ecosystems in natural or degraded conditions (including hydrological and soil management field facilities; decontamination and bioremediation facilities and pilot plants).	
	7	Geothermal Research Facilities	Facilities that enable research, development, and demonstration of technologies to advance the use of geothermal energy as a clean, renewable, domestic power source.	
	8	In Situ Earth Observatories	Platforms and sensor technologies deployed in situ to collect environmental data (including physical, chemical and biological observations) in support of terrestrial environmental research and management activities. These facilities, including ecological habitat field stations, provide a base for trans-disciplinary research and training, with access to terrestrial field sites for survey and experimental opportunities and often supporting environmental observations and the collection of long-term time series data sets (a.o. on biodiversity).	

	9	In Situ Marine/Freshwater Observatories	Platforms and sensor technologies deployed in situ to collect environmental data (including physical, chemical and biological observations) in support of aquatic environmental research and management activities. These facilities, including marine/freshwater research centres, provide a base for trans-disciplinary research and training, with access to marine and freshwater field sites, and equipment (including research vessels that may carry large exchangeable underwater equipment/instruments) for survey and experimental opportunities and often supporting environmental observations and the collection of long-term time series data sets (a.o. on biodiversity). Typical equipment includes: Buoys; Argo; gliders; autonomous underwater vehicles; remotely operated vehicle (Victor); Tide gauges; deep sea laboratories. Ship-time for stock assessments, polar supply, naval research, and educational courses and non- academic research are not considered in this context. For this inventory the atmospheric measurement facilities are kept as a separate category. This implies that some marine research centres will also fall under this category if they host an atmospheric measurement site.		
	10	Natural History Collections	Facilities that serve as a library of organisms have lived and/or are living on Earth and curation sites for materials relevant for planetary exploration. They contribute to specific research and public education in an easily accessible venue.		

		11	Polar and Cryospheric Research Infrastructures	Arctic and Antarctic stations; high altitude and mountain stations; heavy icebreakers; International Partnerships in Ice Core Sciences (IPICS); ANDRILL; Polar Ionospheric stations.	
		12	Research Aircraft	-	
		13	Solid Earth Observatories, including Seismological Monitoring Stations	Drilling platforms and sensor technologies deployed to collect solid earth data and material in support of solid earth research and management activities. This includes facilities that collect seismological data to be added to the European Integrated Data Archive (EIDA) and made available to the scientific community. Integrated Ocean Drilling Programme (IODP) and Integrated Continental Drilling Programme (ICDP); Sediment Coring Archives; VLBI stations.	
		14	Other		
		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.	
4	Engineering & Energy	2	Civil Engineering Research Infrastructures	Single-sited, distributed or virtual facilities for the design, construction, testing (including the use of shaking tables) and maintenance of non- military, non-aerospace or non-mechanical large structures, typically including large buildings, transport infrastructures, bridges, dams, tunnels, sewers, plus river, coastal and public health engineering.	

3	Electrical and Optical Engineering Facilities	Single- or multi-sited facilities that offer scientists and engineers access to devices for handling light, utilizing properties of light, and detecting light or access to infrastructure for research and development in the fields of electricity, electronics, and electromagnetism. These infrastructures may either broadly deal with electrical or electronic engineering, or be focused specifically on some of the numerous subtopics, like electronics, electric power, telecommunications, control systems, or other.	
4	Energy Engineering Facilities (non-nuclear)	Combustion, solar, wind, production & distribution, includes, combustion test facilities and associated technologies.	
5	Marine & Maritime Engineering Facilities	Experimental facilities in the fields of hydraulics, geophysical fluid dynamics, ship dynamics and ice engineering research. These include: Basins (both for marine research with waves and/or (tidal) currents and research on inland water issues); multi-directional wave basins; flumes (both for marine research and for research on inland water issues); towing tanks for ship dynamics research; cavitation tunnels; rotation basins for research on Coriolis-dominated issues; facilities for ice research; other hydraulic facilities. The facilities are relevant for the scientific domains Engineering, Earth and Environmental Sciences, Marine and Polar Sciences	

		6	Mechanical Engineering Facilities	Facilities dedicated to manufacturing, assembly and testing of components and systems offering services related to control, integration and realization of products and processes including modelling and simulation tools. Processing technology, road-transport vehicle development and testing are included.
		7	Other	
5	Humanities & Arts	1	Collections	 Sets of often unique objects and items of different types collected usually to be exhibited. Collections normally include a collecting policy for new acquisitions, so only objects and items in certain categories and of a certain quality are accepted into the collection. Objects in a collection are normally catalogued, traditionally in a card index, but nowadays this is being replaced by computerized database also for physical collections. These type of RIs are particularly relevant for the humanities, which often deal with the study of unique artefacts, but they can be relevant for other domains, such as social sciences, life and environmental sciences. PHYSICAL: Museums, Galleries, Analogue audio/visual/multimedia collections, Archaeology, Anthropology and Ethnology Collections, Arts & Art History Collections, Digitised Manuscript Collections, Music and Instrument Collections, Virtual museums, Virtual galleries, Datasets.

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

		4	Conceptual Models	Explicit formalisations that map a concept to its intended semantics. Conceptual models are adopted in every research domain (e.g. economic models, mathematical models). In the humanities, however, some conceptual models have developed into RIs indispensable to structure a certain knowledge domain, such as is the case for thesauri and taxonomies (also very much used in life sciences) which have a long tradition in supporting analytical efforts especially in linguistics. Increasingly, digital models built around conceptual ontologies and networks are being developed for modelling specific research domain or for cross-referencing purposes in the Humanities.			
--	--	---	-------------------	---	--	--	--

	5	Research Archives	Accounting normally for organised sets of unpublished and almost always unique historical records, or the physical place they are located, archives contain primary source documents (texts, maps, pictures etc.) in physical but also increasingly digital form (e.g. text archives structured in databases) that have accumulated over the course of an individual or organisation's lifetime. In general, archives consist of records that have been selected for permanent or long- term preservation on grounds of their enduring cultural, historical, or evidentiary value. Archives are thus particularly relevant to the Humanities, chiefly to historians but also to many other Humanities researchers dealing with primary sources of various kinds. A scientific discipline called archival science, dedicated to the study and practice of organising, preserving, and providing access to information and materials in archives, has established itself within the Humanities: History Archives, Literature and Text Archives.		
--	---	-------------------	---	--	--

6Research Libraries778899 </th <th></th>	
--	--

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

		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.		
	Information Science & Technology	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.		
6		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			
		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.		
7	Physics, Astronomy, Astrophysics and Mathematics	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			
	Social	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.		
8	8 Social 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	Now	Now	
2	Applied research	New	New	

3	Technological development		
4	Other		

Provider Societal Grand Challenges

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

Data Model

Basic Informa	ition					
Code	Attribute Name	Definition	Туре	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 Inf	formation					
Code	Attribute Name	Definition	Туре	Multiplicity	Required	Public

ERP.MRI.1	Description	A high-level description in fairly non-technical terms of a) what the Resource does, functionality it provides and Resources it enables to access, b) the benefit to a user/customer delivered by a Resource; benefits are usually related to alleviating pains (e.g., eliminate 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
ERP.MRI.2	Tagline	Short catch-phrase for marketing and advertising purposes. It will be usually displayed close to the Resource name and should refer to the main value or purpose of the Resource.	String (max 100)	1	Mandatory	Yes
ERP.MRI.3	Logo	Link to the logo/visual identity of the Resource. The logo will be visible at the Portal.	URL	1	Mandatory	Yes
ERP.MRI.4	Multimedia	Link to video, screenshots or slides showing details of the Resource.	URL	Multiple	Optional	Yes
ERP.MRI.5	Use Cases	Link to use cases supported by this Resource.	URL	Multiple	Optional	Yes
ERP.MRI.6	User Value					
ERP.MRI.7	User Base					
ERP.MRI.8	Service Options					
ERP.MRI.9	Service endpoint					
Classification	Information					
Code	Attribute Name	Definition	Туре	Multiplicity	Required	Public

ERP.CLI.1	Scientific Domain	The branch of science, scientific discipline that is related to the Resource.	List of controlled values: <u>ERV: EOSC Resource</u> <u>Profile#Resource</u> <u>Scientific Domain</u>	Multiple	Mandatory	Yes
ERP.CLI.2	Scientific Subdomain	The subbranch of science, scientific subdicipline that is related to the Resource.	List of controlled values: <u>ERV: EOSC Resource</u> <u>Profile#Resource</u> <u>Scientific Domain</u>	Multiple	Mandatory	Yes
ERP.CLI.3	Category	A named group of Resources that offer access to the same type of Resource or capabilities.	List of controlled values: <u>ERV: EOSC Resource</u> <u>Profile#Resource</u> <u>Category</u>	Multiple	Mandatory	Yes
ERP.CLI.4	Subcategory	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: <u>ERV: EOSC Resource</u> <u>Profile#Resource</u> <u>Category</u>	Multiple	Mandatory	Yes
ERP.CLI.5	Target Users	Type of users/customers that commissions a Provider to deliver a Resource.	List of controlled values: <u>ERV: EOSC Resource</u> <u>Profile#Resource</u> <u>Target Users</u>	Multiple	Mandatory	Yes
ERP.CLI.6	Access Type	The way a user can access the Resource (Remote, Physical, Virtual, etc.)	List of controlled values: <u>ERV: EOSC Resource</u> <u>Profile#Resource</u> <u>Access Type</u>	Multiple	Optional	Yes

ERP.CLI.7	Access Mode	Eligibility/criteria for granting access to users (excellence-based, free-conditionally, free etc.)	List of controlled values: <u>ERV: EOSC Resource</u> <u>Profile#Resource</u> <u>Access Mode</u>	Multiple	Optional	Yes
ERP.CLI.8	Tags	Keywords associated to the Resource to simplify search by relevant keywords.	String (max 50)	Multiple	Optional	Yes
ERP.CLI.9	Target customer tags					
Geographical	and Language A	vailability Information				
Code	Attribute Name	Definition	Туре	Multiplicity	Required	Public
ERP.GLA.1	Geographical Availability	Locations where the Resource is offered.	List of controlled values: <u>ERV: EOSC Resource</u> <u>Profile#Resource</u> <u>Geographical</u> <u>Availability</u>	Multiple	Mandatory	Yes
ERP.GLA.2	Language Availability	Languages of the (user interface of the) Resource.	List of controlled values: <u>ERV: EOSC</u> <u>Resource</u> <u>Profile#Resource</u> <u>Language Availability</u>	Multiple	Mandatory	Yes
Resource Loca	ation Information	1				-
Code	Attribute Name	Definition	Туре	Multiplicity	Required	Public
ERP.RLI.01	Resource Geographic Location	List of geographic locations where data is stored and processed	List of controlled values: <u>ERV: EOSC Resource</u> <u>Profile#Resource</u> <u>Geographic Location</u>	Multiple	Optional	

Contact Infor	mation					
Main Contact	/Resource Owner	•				
Code	Attribute Name	Definition	Туре	Multiplicity	Required	Public
ERP.COI.1	First Name	First Name of the Resource's main contact person/manager.	String (max 20)	1	Mandatory	No
ERP.COI.2	Last Name	Last Name of the Resource's main contact person/manager.	String (max 20)	1	Mandatory	No
ERP.COI.3	Email	Email of the Resource's main contact person/manager.	Email	1	Mandatory	No
ERP.COI.4	Phone	Telephone of the Resource's main contact person/manager.	String (max 20)	1	Optional	No
ERP.COI.5	Position	Position of the Resource's main contact person/manager.	String (max 20)	1	Optional	No
ERP.COI.6	Organisation	The organisation to which the contact is affiliated	String (max 50)	1	Optional	No
Public Contac	et					
Code	Attribute Name	Definition	Туре	Multiplicity	Required	Public
ERP.COI.7	First Name	First Name of the Resource's contact person to be displayed at the portal.	String (max 20)	1	Optional	Yes
ERP.COI.8	Last Name	Last Name of the Resource's contact person to be displayed at the portal.	to String (max 20) 1		Optional	Yes
ERP.COI.9	Email	Email of the Resource's contact person or a generic email of the Provider to be displayed at the portal.	Email	1	Mandatory	Yes
ERP.COI.10	Phone	Telephone of the Resource's contact person to be displayed at the portal.	String (max 20)	1	Optional	Yes

ERP.COI.11	Position	Position of the Resource's contact person to be displayed at the portal.	String (max 20)	1	Optional	Yes
ERP.COI.12	Organisation	The organisation to which the contact is affiliated	String (max 50) 1		Optional	Yes
Other Contacts						1
Code	Attribute Name	Definition	Туре	Multiplicity	Required	Public
ERP.COI.13	Helpdesk Email	The email to ask more information from the Provider about this Resource.	Email	1	Mandatory	Yes
ERP.COI.14	Security Contact Email	The email to contact the Provider for critical secutiry issues about this Resource.	Email	1	Mandatory	No
ERP.COI.15	Service security name/group					
Maturity Info	rmation					
Code	Attribute Name	Definition	Туре	Multiplicity	Required	Public
ERP.MTI.1	Technology Readiness Level	The Technology Readiness Level of the Resource uodated in the context of the EOSC.	List of controlled values: <u>ERV: EOSC Resource</u> <u>Profile#Resource TRL</u>	1	Mandatory	Yes
ERP.MTI.2	Life Cycle Status	Phase of the Resource life-cycle.	List of controlled values:	1	Optional	Yes
ERP.MTI.3	Certifications	List of certifications obtained for the Resource (including the certification body).	String (max 100) Multiple		Optional	Yes
ERP.MTI.4	Standards	List of standards supported by the Resource.	String (max 100)	Multiple	Optional	Yes
ERP.MTI.5	Open Source Technologies	List of open source technologies supported by the Resource.	String (max 100) Multiple		Optional	Yes

ERP.MTI.6	Version	Version of the Resource that is in force.	String (max 10)	1	Optional	Yes
ERP.MTI.7	Last Update	Date of the latest update of the Resource.	Date (dd/mm/yyyy) 1		Optional	Yes
ERP.MTI.8	Change Log	Summary of the Resource features updated from the previous version.	String (max 1000)	Multiple	Optional	Yes
ERP.MTI.9	Service Valid for	The date up to which the Description is valid.	Date (dd/mm/yyyy)	4	Optional	Yes
Dependencies	Information					
Code	Attribute Name	Definition	Туре	Multiplicity	Required	Public
ERP.DEI.1	Required Resources	List of other Resources required to use this Resource.	Resource IDs	Resource IDs Multiple		Yes
ERP.DEI.2	Related Resources	List of other Resources that are commonly used with this Resource.	Resource IDs	Multiple	Optional	Yes
ERP.DEI.3	Related Platforms	List of suites or thematic platforms in which the Resource is engaged or Providers (Provider groups) contributing to this Resource.	String (max 50)	Multiple	Optional	Yes
Attribution In	formation					
Code	Attribute Name	Definition	Туре	Multiplicity	Required	Public
ERP.ATI.1	Funding Body	Name of the funding body that supported the development and/or operation of the Resource.	List of controlled values: <u>ERV: EOSC Resource</u> <u>Profile#Resource</u> <u>Funding Body</u>	Multiple	Optional	Yes

ERP.ATI.2	Funding Program	Name of the funding program that supported the development and/or operation of the Resource.	List of controlled values: <u>ERV: EOSC Resource</u> <u>Profile#Resource</u> <u>Funding Program</u> Multiple		Optional	Yes
ERP.ATI.3	Grant/Project Name	Name of the project that supported the development and/or operation of the Resource.	String (max 100)	Multiple	Optional	Yes
Management	Information					
Code	Attribute Name	Definition	Туре	Multiplicity	Required	Public
ERP.MGI.1	Helpdesk Page	The URL to a webpage to ask more information from the Provider about this Resource.	URL	1	Optional	Yes
ERP.MGI.2	User Manual	Link to the Resource user manual and documentation.	URL	1	Optional	Yes
ERP.MGI.3	Terms Of Use	Webpage describing the rules, Resource conditions and usage policy which one must agree to abide by in order to use the Resource.	URL	1	Optional	Yes
ERP.MGI.4	Privacy Policy	Link to the privacy policy applicable to the Resource.	URL	1	Optional	Yes
ERP.MGI.5	Access Policy	Information about the access policies that apply.	URL	1	Optional	Yes
ERP.MGI.6	Service Level	Webpage with the information about the levels of performance that a Provider is expected to deliver.	URL	1	Optional	Yes
ERP.MGI.7	Training Information	Webpage to training information on the Resource.	URL	1	Optional	Yes
ERP.MGI.8	Status Monitoring	Webpage with monitoring information about this Resource	URL	1	Optional	Yes
ERP.MGI.9	Maintenance	Webpage with information about planned maintenance windows for this Resource	URL 1		Optional	Yes

ERP.MGI.10	Service Feedback					
ERP.MGI.11	Admin Manual					
Access and Or	rder Information					
Code	Attribute Name	Definition	Туре	Multiplicity	Required	Public
ERP.AOI.1	Order Type	Information on the order type (requires an ordering procedure, or no ordering and if fully open or requires authentication)	List of controlled values: <u>ERV: EOSC</u> <u>Resource</u> <u>Profile#Resource Order</u> <u>Type</u>	1	Mandatory	Yes
ERP.AOI.2	Order	Webpage through which an order for the Resource can be placed	URL	1	Optional	Yes
ERP.AOI.3	Open/Wide Access Service					
ERP.AOI.4	Service ordering					
Financial Info	ormation					
Code	Attribute Name	Definition	Туре	Multiplicity	Required	Public
ERP.FNI.1	Payment Model	Webpage with the supported payment models and restrictions that apply to each of them	URL 1 0		Optional	Yes
ERP.FNI.2	Pricing	Webpage with the information on the price scheme for this Resource in case the customer is charged for.	URL	1	Optional	Yes

Onboarding Guide

Basic Informa	ation				
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.BAI.0	ID	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.
ERP.BAI.1	Name	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 Reource name provided on the Resource URL or in case of obvious typo's.

ERP.BAI.2	Resource Organisation	OpenAIRE			
ERP.BAI.3	Resource Providers	CERN, GRNET			
ERP.BAI.4	Webpage	http://www.Provider.eu/ Resource-name or http://Resource- name.Provider.eu	Create a unique URL for each Resource and provide the shortest possible alias	Validate nominal URL, reject IP or other formats	Verify if the URL refers to the web page of the Resource, this is commonly the web page of the Resource in the Catalogue of the Provider. Verify if the name on the web page corresponds to the name provided as Resource Name.
Marketing Inf	ormation				
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation

ERP.MRI.1	Description	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.	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.	bed the by Rev qua mo and if n clan poi app pot and fun Res des exc sug	general take as-is cause it is specific to Resource provided the Provider. view the text, not to alify the quality, but re on readability I for obvious typo's, necessary, ask for rifications. Also nt out if it does not bear to address the ential customers I explain the main actionality of the source. If scription is ressively long regest being more necise.
ERP.MRI.2	Tagline	Store, share and access your files and their metadata on a global scale	Marketing specialists are encouraged to be engaged in order to come up with a catch phrase that can aid Resource dissemination and visibility.	tak spe Res the for tag cor pro Des	general it should be en as-is because it is socific to the source provided by Provider. Only ask clarifications if the line does not respond to the wided Resource scription and in case obvious typos.

ERP.MRI.3	Logo	https://Resource- name.Resource- Provider.eu/Symbol.jpg	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.
ERP.MRI.4	Multimedia	http://Resource- name.Resource- Provider.eu/Multimedia	Provide URL of the Resource, in the form of the shortest possible alias	Validate nominal URL, reject IP or other formats	Verify if the URL points to multimedia that relates to the Resource in question. If needed, contact requester for clarification.
ERP.MRI.5	Use Cases	https://zenodo.org/record /1490344#.XfR8p_yxW Uk	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.
ERP.MRI.6	User Value				
ERP.MRI.7	User Base				
ERP.MRI.8	Service Options				

ERP.MRI.9	Service endpoint				
Classification	Information	I			
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.CLI.1	Scientific Domain	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.
ERP.CLI.2	Scientific Subdomain	Biological sciences			Verify that the provided value corresponds with names provided in the Resource's webpage.
ERP.CLI.3	Category	Aggregators & Integrators	A second category should be used only if strictly needed		Verify that the category chosen is logical to Resource description.
ERP.CLI.4	Subcategory	Software & Data			Verify that the subcategory chosen is logical to Resource description.
ERP.CLI.5	Target Users	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.		
ERP.CLI.6	Access Type	Virtual			

ERP.CLI.7	Access Mode	Excellence-based, peer reviewed			
ERP.CLI.8	Tags	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.
ERP.CLI.9	Target customer tags				
Geographical	and Language A	vailability Information		-	
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.GLA.1	Geographical Availability	World		Validation using the ISO 3166-1 alpha-2 standard for the 2-letter codes for representing the languages.	
ERP.GLA.2	Language Availability	English		Validation using the ISO 3166-1 alpha-2 standard for the 2-letter codes for representing the languages.	
Resource Loca	ation Information	1			
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation

ERP.RLI.01	Resource Geographic Location				
Contact Inform	mation				·
Main Contact/	Resource Owner	•			
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.COI.1	First Name	John			
ERP.COI.2	Last Name	Smith			Check for obvious typos in the name. Confirm with a google search of the name and Provider
ERP.COI.3	Email	john.smith@example.co m		Validate e-mail address	
ERP.COI.4	Phone	3021077755500		Validate for number (use separate input field for country prefixes)	
ERP.COI.5	Position	Coordinator			
ERP.COI.6	Organisation	Open Access Infrastructure for Research in Europe			
Public Contac	t				
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.COI.7	First Name	Jack			

ERP.COI.8	Last Name	White			Check for obvious typos in the name. Confirm with a google search of the name and Provider				
ERP.COI.9	Email	jack.white@example.co m		Validate e-mail address					
ERP.COI.10	Phone	3021077755501		Validate for number (use separate input field for country prefixes)					
ERP.COI.11	Position	Manager							
ERP.COI.12	Organisation	Open Access Infrastructure for Research in Europe							
Other Contacts									
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation				
ERP.COI.13	Helpdesk Email	helpdesk@Provider.com	Email to contact your helpdesk, where users with incidents and requests will be directed.	Validate e-mail address	Verify the validity of the email address as a helpdesk email for the specific Resource (via internet search)				
ERP.COI.14	Security Contact Email	secutiry@Provider.com	Email contact of the person or group responsible for the security aspects of the Resource.	Validate e-mail address	Verify the validity of the email address as a security email for the specific Resource (via internet search)				

ERP.COI.15	Service security name/group								
Maturity Information									
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation				
ERP.MTI.1	Technology Readiness Level	TRL8	https://ec.europa.eu/info/funding- tenders/opportunities/portal/scree n/support/faq;keywords=/2890		Verify the provided TRL according to the Classification Appendix definitions				
ERP.MTI.2	Life Cycle Status	Production							

ERP.MTI.3	Certifications	-	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 that the certification is described on a public webpage. Verify via internet searches if the provided names give a valid result describing the certification. If not, request clarification and an URL reference describing the certification. Check whether the certification body is real and appears to offer certification.
-----------	----------------	---	---	--	--

ERP.MTI.4	Standards	ISO 15430, ISO 27000 Webdav (https://en.wikipedia.org/ wiki/WebDAV, https://tools.ietf.org/html /rfc4918, http://www.webdav.org/)	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.
ERP.MTI.5	Open Source Technologies		List any open source technologies incoportated 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
ERP.MTI.6	Version	3.1	Only stable releases should be referenced.		
ERP.MTI.7	Last Update	2/28/2018	The date should refer to when the updated version became available to users, not when it was developed or released internally in the Provider.	Validate for date	
ERP.MTI.8	Change Log	Upgrade of user interface. Correction of minor bugs.	Clear, staccato sentences for each updated feature should be used.		

ERP.MTI.9	Service Valid for				
Dependencies	Information	L			
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.DEI.1	Required Resources	List of Resource IDs	List any other EOSC Resources that your Resource requires in order to operate.		
ERP.DEI.2	Related Resources	List of Resource IDs	List any other EOSC Resources that you are aware of that your service can cooperate with.		
ERP.DEI.3	Related Platforms	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
Attribution In	formation		· · · · ·		•
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.ATI.1	Funding Body	European Commission	Publicity guidelines of each respective funding sources should be adhered to.		
ERP.ATI.2	Funding Program	Horizon 2020			
ERP.ATI.3	Grant/Project Name	OpenAIRE2020 (643410)			

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

ERP.MGI.3	Terms Of Use	http://Resource- name.provid- er.eu/TermsOfUse	Link describing the rules, resource conditions and usage policy which one must agree to abide by in order to use the Resource. Create a dedicated URL for your Resources and provide the shortest possible alias.	Validate nominal URL, reject IP or other formats	Verify that the URL refers to the web page, document or other information providing the terms of use for the Resource. If not ask clarification from the Provider. The quality of the content does not to have be verified. The content has to be publically accessible before the user logs in. If there is no Terms of Use / Acceptable Use Policy or the existing one appears of low quality, suggest the WISE Baseline AUP, see <u>https://aarc- project.eu/wp- content/uploads/2019/0</u> <u>3/AARC-I044-</u> Implementers-Guide- <u>to-the-WISE-Baseline-</u> <u>AUP.pdf</u>
-----------	--------------	--	--	--	---

ERP.MGI.4	Privacy Policy		Link to the privacy policy applicable to the Resource. Privacy policies are required for all Resources, since they will likely fall under the GDPR limitations. Create a dedicated URL for your Resources and provide the shortest possible alias.	Validate nominal URL, reject IP or other formats	Verify that the URL refers to the web page, document or other information describing the Resource privacy policy. If not ask clarification from the Provider. The quality of the content does not have to be verified.
ERP.MGI.5	Access Policy	PRACE provides HPC Resources to researchers and scientists from academia and industry through Preparatory Access (code scaling and optimization) and/or through Project Access (large-scale, computationally intensive projects) http://www.prace- ri.eu/hpc-access	Create a dedicated URL for your Resources and provide the shortest possible alias.		Check that the answer can be generally understood by users, and seems to relate to the servie as shown on its website.
ERP.MGI.6	Service Level	http://Resource- name.Provider.eu/SLA	Link to a Service Level Agreement (SLA) or Service Level Specification (SLS) applicable to the Resource. Support is available in forming an SLA or SLS is available at <u>https://wiki.eosc-</u> <u>hub.eu/display/EOSC/Service+Pr</u> <u>ovider+Documentation</u> .	Validate nominal URL, reject IP or other formats	Verify that the provided link poins to a Service Level Agreement (SLA) or Service Level Specification (SLS) applicable to the Resource.

ERP.MGI.7	Training Information	<u>http://Resource-</u> <u>name.Provider.eu/Traini</u> <u>ng</u>	Link to page with training information on the Resource. Create a dedicated URL for your Resources and provide the shortest possible alias.	Validate nominal URL, reject IP or other formats	Verify that the URL refers to the web page, document or other information related to training for the Resource. If not ask clarification from the Provider. The quality of the content does not have to be verified, but the information provided must have a look and feel and to be useful as training material.
ERP.MGI.8	Status Monitoring	http://Resource- name.Provider.eu/Monit oring	Web Page with monitoring information about this Resource.	Validate nominal URL, reject IP or other formats	Verify that the URL points to a webpage that provides monitoring information about the Resource. If not ask clarification from the Provider. We do not assess the quality and/or usefulness of the monitoring page.
ERP.MGI.9	Maintenance	http://Resource- name.Provider.eu/Mainte nance	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.

ERP.MGI.10	Service Feedback				
ERP.MGI.11	Admin Manual				
Access and Or	der Information				
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.AOI.1	Order Type				
ERP.AOI.2	Order	https://gts.geant.net/login		Validate nominal URL, reject IP or other formats	
ERP.AOI.3	Open/Wide Access Service				
ERP.AOI.4	Service ordering				
Financial Info	rmation				
Code	Attribute Name	Example Value	Guidelines for Providers	Machine-based validation	Human-based validation
ERP.FNI.1	Payment Model			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, requrest clarifications from the Provider

ERP.FNI.2	Pricing	http://Resource- name.Provider.eu/Price	Look at https://cloud.telekom.de/en/infras tructure/open-telekom- cloud/pricing as an example	formats	Verify that the URL provided indeed provides information on the pricing of the Resource. If not, requrest clarifications from the Provider
-----------	---------	--	--	---------	--

Transition Guide

Basic Informa	tion						
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.BAI.0	ID	Change Attribute Name (old Service ID) Type added Definition updated	Сору		ID should be compliant to the Providers' IDs	Type added Definition updated	Сору
ERP.BAI.1	Name	Change Attribute Name (old Service Name)	Сору	Change Attribute Name (old Service Name) Change Type (old Single Line)	Сору	No change	Сору
ERP.BAI.2	Resource Organisation	Change Attribute Name (old Service Provider Name) Change Type (old Free text)	Сору	New	Default value EPP.BAI.0	Change Attribute Name (old Provider Name) Change Multiplicity (old Multiple)	Keep only 1st Provider ID
ERP.BAI.3	Resource Providers	New	Default value empty(null)	New	Default value empty(null)	New	Move from ERP.BAI.2 all other Provider IDs except 1st

ERP.BAI.4	Webpage	Change Attribute Name (old Service URL)	Сору	Change Attribute Name (old Service URL)	Сору	No change	Сору
Marketing Inf	formation						
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.MRI.1	Description	Moved from Basic Information Block Change Attribute Name (old Service Description)	Concatenate Description + User Value + User Base + Service Options	Moved from Basic Information Block Change Attribute Name (old Service Description) Change Type (old Freetext)	Сору	Moved from Basic Information Block	Сору
ERP.MRI.2	Tagline	Moved from Basic Information Block Change Attribute Name (old Service Tagline) Change to Mandatory	Copy or "-" if empty	Change Attribute Name (old Service Tagline) Change Type (old Single LIne)	Сору	Moved from Basic Information Block	Сору

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

Classification	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
ERP.CLI.1	Scientific Domain	New	Default value "Other"	Moved from Classification & Matutiry Block Change Attribute Name (old Research fileds) Change Type (old Multiselect list)	New List of controlled values. Delete and use Default value "Other"	No change	Сору
ERP.CLI.2	Scientific Subdomain	New	Default value "Other"	New	Default value "Other"	No change	Сору
ERP.CLI.3	Category	Change Attribute Name (old Service Category) Change Multiplicity (old 1)	Сору	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	Сору
ERP.CLI.4	Subcategory	Change Attribute Name (old Service Subcategory) Change Multiplicity (old 1)	Сору	New	Default value "Other"	No change	Сору

ERP.CLI.5	Target Users	Moved from Basic Information Block Change Type (old String (max 1000)) Change to Mandatory	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)	Copy checking the New List of controlled values or Default value "Other"	No change	Сору
ERP.CLI.6	Access Type	New	Default value "Other"	New	Default value "Other"	No change	Сору
ERP.CLI.7	Access Mode	New	Default value "Other"	Moved from Access & Order Block Change Attribute Name (old Access Policies in use) Change Type (old Multiselect list)	Copy checking the New List of controlled values or Default value "Other"	No change	Сору
ERP.CLI.8	Tags	Change Attribute Name (old Service Tags)	Сору	Moved from Classification & Matutiry Block Change Attribute Name (old Service tags) Change Type (old Freetext)	Сору	Change Type (old max 20)	Сору
ERP.CLI.9	Target customer tags			Removed for simplification	Delete		
Geographical	and Language A	vailability Inform	mation				
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.GLA.1	Geographical Availability	Moved from Classification Block Change Attribute Name (old Service Place)	Сору	Moved from Basic Information Block Change Type (old Single Line)	Сору	Moved from Classification Block Change Attribute Name (old Location)	Сору
ERP.GLA.2	Language Availability	Moved from Classification Block Change Attribute Name (old Service Language)	Сору	Moved from Basic Information Block Change Attribute Name (old Service language) Change Type (old Single Line)	Сору	Moved from Classification Block Change Attribute Name (old Language)	Сору
Resource Loca	ation Informatio	n					
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
ERP.RLI.01	Resource Geographic Location	New	Default value "Other"	New	Default value "Other"	New	Default value "Other"
Contact Infor	mation						
Main Contact	/Resource Owne	r					
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.COI.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 Atttribute Name (old Contact-1 First Name)	Сору
ERP.COI.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 Atttribute Name (old Contact-1 Last Name)	Сору
ERP.COI.3	Email	New	Copy from the Proviider Onboarding	Change Atttribute Name (old Service Owner contact)	Сору	Change Atttribute Name (old Contact-1 Email)	Сору
ERP.COI.4	Phone	New	Default value empty(null)	New	Default value empty(null)	Change Atttribute Name (old Contact-1 Telephone)	Сору
ERP.COI.5	Position	New	Default value empty(null)	New	Default value empty(null)	Change Atttribute Name (old Contact-1 Position)	Сору
ERP.COI.6	Organisation	New	Default value empty(null)	New	Default value empty(null)	New	Default value empty(null)
Public Contac	t			•			

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.COI.7	First Name	New	Default value empty(null)	Change Atttribute Name (old Service support name/group) Change Type (old Single Line)	Copy only First Name	Change Atttribute Name (old Contact-2 First Name)	Сору
ERP.COI.8	Last Name	New	Default value empty(null)	Change Atttribute Name (old Service support name/group) Change Type (old Single Line)	Copy only Last Name	Change Atttribute Name (old Contact-2 Last Name)	Сору
ERP.COI.9	Email	New	Insert info@[Provider Domain] or if difficult "-"	Change Atttribute Name (old Service support contact)	Сору	Change Atttribute Name (old Contact-2 Email)	Сору
ERP.COI.10	Phone	New	Default value empty(null)	New	Default value empty(null)	Change Atttribute Name (old Contact-2 Telephone)	Сору
ERP.COI.11	Position	New	Default value empty(null)	New	Default value empty(null)	Change Atttribute Name (old Contact-2 Position)	Сору
ERP.COI.12	Organisation	New	Default value empty(null)	New	Default value empty(null)	New	Default value empty(null)
Other Contact	ts						

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.COI.13	Helpdesk Email	New	Default value ERP.COI.9	Moved from Service Management Block Change Atttribute Name (old Helpdesk email address)	Сору	New	Copy from ERP.COI.9
ERP.COI.14	Security Contact Email	New	Default value ERP.COI.9	Moved from Service Management Block Change Atttribute Name (old Service security contact)	Сору	New	Copy from ERP.COI.9
ERP.COI.15	Service security name/group			Removed	Delete		
Maturity Info	ormation						
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.MTI.1	Technology Readiness Level	Moved from Classification Block Change Attribute Name (old Service TRL)	Сору	Moved from Classification & Matutiry Block Change Attribute Name (old Service TRL)	Сору	Change Necessity (old optional)	Copy or "TRL7" if null

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

ERP.MTI.8	Change Log	Moved from Classification Block Change Attribute Name (old Service Change Log) Change Multiplicity (old 1)	Сору	New	Default value empty(null)	No change	Сору
ERP.MTI.9	Service Valid for	Removed Not very relevant in the Research context		Removed Not very relevant in the Research context		Removed Not very relevant in the Research context Was removed	
Dependencies	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
ERP.DEI.1	Required Resources	Moved from Classification Block Change Attribute Name (old Required Services)	Сору	Change Attribute Name (old Dependencies/Required services from the EOSC Portfolio) Change Type (old Freetext)	Copy Confirm ID	No change	Сору

ERP.DEI.2	Related Resources	Moved from Classification Block Change Attribute Name (old Related Services)	Сору	Change Attribute Name (old Related Services) Change Type (old Freetext)	Copy Confirm ID	No change	Сору
ERP.DEI.3	Related Platforms	New	Default value empty(null)	Change Attribute Name (old Ralated providers and platforms) Change Type (old Freetext)	Сору	Change Type (old max 20)	Сору
Attribution In	nformation						
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.ATI.1	Funding Body	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)	New	Default value "Other"	Moved from Classification Block Change Attribute Name (old Funded by)	Сору
ERP.ATI.2	Funding Program	New	Default value "Other"	New	Default value "Other"	New	Default value "Other"
ERP.ATI.3	Grant/Project Name	New	Default value empty(null)	New	Default value empty(null)	New	Default value empty(null)

Management	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
ERP.MGI.1	Helpdesk Page	Moved from Support Block Change Attribute Name (old Service Helpdesk)	Сору	Moved from Service Management Block Change Attribute Name (old Helpdesk URL) Change to Optional	Сору	Moved from Support Block Change Attribute Name (old Helpdesk)	Сору
ERP.MGI.2	User Manual	Moved from Support Block Change Attribute Name (old Service User Manual)	Сору	Moved from Service Management Block Change Attribute Name (old Service User Manual) Change to Optional	Сору	Moved from Support Block	Сору
ERP.MGI.3	Terms Of Use	Moved from Contractual Block Change Attribute Name (old Service Terms of Use)	Сору	Moved from Service Management Block Change Attribute Name (old Service terms of use / Acceptable use Policy / Terms and Conditions) Change to Optional	Сору	Moved from Contractual Block	Сору
ERP.MGI.4	Privacy Policy	New	Default value empty(null)	Moved from Service Management Block Change to Optional	Сору	Moved from Contractual Block	Default value empty(null)

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

ERP.MGI.9	Maintenance	New	Default value empty(null)	Moved from Service Management Block Change Attribute Name (old Service Maintenance URL)	Сору	Moved from Support Block	Сору
ERP.MGI.10	Service Feedback	Removed				Removed	
ERP.MGI.11	Admin Manual	Removed				Removed	
Access and Or	rder Informatior	1					
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.AOI.1	Order Type	New	Default value "Other"	New	Default value "Other"	Moved from Contractual Block	Сору
ERP.AOI.2	Order	Moved from Support Block Change Attribute Name (old Service Order)	Сору	New	Default value empty(null)	Moved from Contractual Block	Сору
ERP.AOI.3	Open/Wide Access Service			Removed			
ERP.AOI.4	Service ordering			Removed			

Financial Info	rmation						
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.FNI.1	Payment Model	New	Default value empty(null)	New	Default value empty(null)	Moved from Contractual Block	Сору
ERP.FNI.2	Pricing	Moved from Support Block Change Attribute Name (old Service Price)	Сору	New	Default value empty(null)	Moved from Contractual Block	Сору

Code Lists, Taxonomies, Classifications

Resource Scientific Domain/Subdomain

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

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	Mathematics			
			2	Computer and information sciences			
		Any of the sciences (such as physics,	3	Physical sciences			
1	Natural	chemistry, or biology) that deal with matter, energy, and their interrelations	4	Chemical sciences			
	Sciences	and transformations or with objectively measurable phenomena.	5	Earth and related environmental sciences	New	Change to FOS 2017	Change to FOS 2017
			6	Biological sciences			_01/
			7	Other natural sciences			
		The application of science and	1	Civil engineering			
2	Engineering & Technology	mathematics by which the properties of matter and the sources of energy in nature are made useful to people	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	
	Medical &	The science of dealing with the	3	Health sciences	
3	Health Sciences	maintenance of health and the prevention and treatment of disease	4	Medical biotechnology	
			5	Other medical sciences	

			1	Agriculture, forestry, and fisheries
		Sciences dealing with food and fibre production and processing. They include the technologies of soil cultivation, crop	2	Animal and dairy sciences
4	Agricultural Sciences	cultivation and harvesting, animal production, and the processing of plant	3	Veterinary sciences
		and animal products for human consumption and use.	4	Agricultural biotechnology
			5	Other agricultural sciences
			1	Psychology
			2	Economics and business
			3	Educational sciences
		A branch of science that deals with the	4	Sociology
_	Social	institutions and functioning of human	5	Law
5	Sciences	society and with the interpersonal relationships of individuals as members	6	Political sciences
		of society	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	2	Languages and literature		
		(as in anthropology or economics).	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 clasess.

No ·	Category	Description	No ·	Subcategory	No ·	Supercategor y	Changes v1.13 to v3.00	Changes v1.30 to v3.00	Changes v2.00 to v3.00
			1	Spectrometer			New		
			2	Radiation			inew		
			3	Microscopy					
1	Instrument &	Access to	4	Laser	1	Access physical & e-			
1	Equipment	instruments and equipment	5	Geophysical	1	Infrastructures			
			6	Chromatographer					
			7	Cytometer					
			8	Spectrophotometer					

			1	Digitisation equipment
			1	Monument maintenance equipment
			1	2 Other
			1	Warehousing
		Access to	2	Fulfilment
		biological, chemical,		Assembly
		historical,	4	Sorting
		archeological, cultural, etc.	1	Re-working
2	Material	storage. Includes the	(Packaging
2	Storage	acquisition,	7	Quality inspecting
		preparation and processing	8	Archiving
		of samples and materials in	ç	Disposal
		view of their	1	0 Repository
		preservation.	1	l Preservation
			1	2 Other
			1	Direct Connect
		Ultra-fast connectivity	2	Virtual Network
3	Network	and access to		Load Balancer
		eInfrastructure s' Resources	4	VPN Gateway
			5	Exchange

			6	Content Delivery Network
			7	Traffic Manager
			8	Other
			1	Virtual Machine Management
		High-	2	Container Management
		performance computing	3	Job Execution
4	Compute	Resources and scalable cloud compute	4	Workload Management
		capacity for demanding job	5	Orchestration
		processes	6	Serverless Applications Repository
			7	Other
			1	Data
		Daliable	2	File
		Reliable, secure and	3	Queue
5	Data Storage	scalable cloud storage for	4	Disk
		scientific data, apps and	5	Online
		workloads	6	Archive
			7	Backup
			8	Synchronised

			9	Replicated				
			10	Recovery				
			11	Digital preservation				
			12	Other				
			1	Government and agency data			Deleted Subcategories:	
			2	Statistical data			Mining, Access, Management,	
			3	Scientific/Research data			Transfer Management, Registration,	
		Vast range of data, datasets	4	Online service data			Persisten Identifier,	
6	Data	etc to facilitate	5	Clinical trial data			Interlinking, Publishing,	
		research and scientific activities	6	Epidemiological data	2	Sharing & Discovery	DIscovery, Anonymisation, Preservation,	
			7	Data archives			Brokering,	
			8	Other			Anotation Added subcategories: All new	
7		Research	1	Preparation			New	
		findings	2	Discovery				

		available to the	3	Analysis
		wider academic	4	-
	Scholarly	community	5	Publication
	Communicatio n	and beyond	6	Outreach
			7	Assessment
			8	Other
			1	Software
				Repository Platform
		Software, platforms and	2	
8	Software	tools offered-	3	
		as-a-service or deployed-on-	4	Libraries
		demand	5	Other
			3	Other
			1	Communication
			2	Collaboration
			3	
		End-user applications	4	-
9	Application	(apps) offered- as-a-service or	5	
		deployed-on-	6	
		demand	7	Utilities
				Applications
			8	Repository

			9	Other				
			1	Developer Tools				
		Developer	2	Software Development Kits				
10	Development	tools, development	3	Software Libraries			New	
	Resource	kits, libraries, APIs	4	APIs Repository/Gatewa y				
			5	Other				
		Collection,	1	Biological samples				
		preparation and delivery of biological,	2	Chemical compounds library			New	
11	Samples	chemical,	3	Preparation				
		environmental or other	4	Characterisation				
		samples.	5	Other				
			1	Mining			New	
			2	Access				
		Robust,	3	Transfer				
	Data	feature-rich and user-	4	Registration		Processing &		
12	Management	friendly data management	5	Persistent Identifier	3	Analysis		
		services	6	Interlinking				
			7	Publishing				
			8	Discovery				

			9	Anonymisation
			10	Preservation
			11	Brokering
			12	Annotation
			13	Validation
			14	Maintenance
			15	Embargo
			16	Digitisation
			17	Other
			1	Machine Learning
		Processes for data with the	2	Artificial Intelligence
		goal of discovering	3	Forecast
12	Data Analusia	useful	4	Visualization
13	Data Analysis	information, informing	5	Data extrapolation
		conclusions, and supporting decision-	6	Image/data analysis
		making	7	Workfows
			8	2D/3D Digitisation

				9	Other			Intelligence, Forecast, Visualisation, Data extrapolation, Image/data analysis, workflows, 2d/3d Difitisation	
14	Measurement & Materials Analysis	Processess and techiques for material analysis, characterisatio n and monitoring		1	Analysis				
				2	Maintenance and Modification	-		New	
				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	2	1	User authentication	- 4	Security & Operations	Change Name (old Secutiry) Deleted subcategories: AAI, Attacks protection Added	
				2	Identity and access management				
				3	Threat protection				
				4	Coordination				
				5	Tools				
				6	Certification authority			subcategories: User authentication,	

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

			-				
		sharpen scientific skills	6	Related Training			
		scientific skills	7	Required Training			
			8	Other			
			1	Consulting	Change Name (old		
			2	Audit and Assessment	Consulting)		
			3	Application Porting	Added subcategories: Consulting,		
		Dedicated support, expertise, consultancy for a wide range of scientific disciplines and research activities	4	Application Scaling	Application Porting, Application		
			support,	support,	support,	5 Application Optimisation Scaling, Application Optimisation,	Scaling, Application
18	Consultancy &		6	Software Development	Software Development,		
10	Support		7	Software Improvement	Software Improvement, Modelling and		
			research	research	8	Modeling and Simulation	Simulation, Protorype
			9	Prototype Development	Development, Testing, Certification,		
			10	Testing	Calibration,		
			11	Certification	Benchmarking, Technology		
			12	Calibration	Transfer, Methodology		
			13	Benchmarking	Development		

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

4	Research projects	A privately or publicly funded project on a research topic.
5	Research networks	Research networks aim to stimulate interaction between researchers and promote information exchange.
6	Research managers	Someone in an organization whose job is to manage a research initiative aiming to the development of new scientific results, products or ideas.
7	Research organisations	A public or private legal entity (e.g. academia, business, industry, public services, etc.) representing the User.
8	Students	A person who is studying at a university or other place of higher education.
8	Innovators	The group or individual which is the first to try new ideas, processes, goods and services. Innovators are followed by early adopters, early majority, late majority, and laggards, in that order.
9	Businesses	An organization or economic system where goods and services are exchanged for one another or for money. Businesses can be privately owned, not-for-profit or state-owned.
10	Providers	A Provider is an organisation that provides different kind of solutions and/or services or other Resources to end users and other organizations. This broad term incorporates all businesses and organisations that provide products and solutions that are offered for free, on-demand, pay per use or a hybrid delivery model.
11	Funders	Individual or organization financing a part or all of a project's cost as a grant, investment, or loan.
12	Policy Makers	Individuals (usually members of the board of directors) who have the authority to set the policy framework of an organization.
13	Research Infrastructure Managers	A RI Manager is a type of Project Coordinator who specializes in research infrastructures. They are responsible for things like managing researchers, making sure costs are on budget and serving as a liaison between reserach staff and project stakeholders.
14	Provider Managers	A Provider Manager is an individual within an organisation that is responsible for the quality of the Resources provided and monitors the delivery of the Resource.

15		Resource Managers 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.			
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.	New	New	
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 v1.30 to v3.00	Changes v2.00 to v3.00
1	Free	Users can freely access the Resource provided, registration may be needed.			
2	Free conditionally	Users are granted access based on defined policies; such policies usually apply to Resources being offered with "sponsored use" to meet some national or EU level objective; for instance, a country may offer Resources with "sponsored use" to support national researchers involved in international collaborations.	New	New	

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 counries						
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 ERV: EOSC Resource Profile#Resource Geographic Location							

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)			

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

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

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

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

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

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

	1		
135	Samoan (sm)		
136	Sango (sg)		
137	Sanskrit (sa)		
138	Sardinian (sc)		
139	Serbian (sr)		
140	Sesotho (st)	Added	Added
141	Setswana (tn)	Added	Added
142	Shona (sn)		
143	Sindhi (sd)		
144	Sinhalese (si)	Change rom Sinhala	Change rom Sinhala
145	Slovak (sk)		
146	Slovenian (sl)	Change from Slovene	Change from Slovene
147	Somali (so)		
148	Southern Ndebele (nr)		
149	Spanish (es)		
150	Sundanese (su)		
151	Swahili (sw)		
152	Swati (ss)		
153	Swedish (sv)		
154	Tagalog (tl)		
155	Tahitian (ty)		
156	Tajik (tg)		

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

179	Xhosa (xh)		
180	Yiddish (yi)		
181	Yoruba (yo)		
182	Zhuang (za)		
183	Zulu (zu)		
184	Other		

Resource Geographic Location

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

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

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

33	British Indian Ocean Territory (IO)			
34	Brunei Darussalam (BN)	1		
35	Bulgaria (BG)	1		
36	Burkina Faso (BF)	1		
37	Burundi (BI)	1		
38	Cabo Verde (CV)		Cape Verde replaced by Cabo Verde	Cape Verde replaced by Cabo Verde
39	Cambodia (KH)			
40	Cameroon (CM)]		
41	Canada (CA)			
42	Cayman Islands (KY)			
43	Central African Republic (CF)			
44	Chad (TD)			
45	Chile (CL)			
46	China (CN)			
47	Christmas Island (CX)]		
48	Cocos (Keeling) Islands (CC)]		
49	Colombia (CO)]		
50	Comoros (KM)]		
51	Congo (Democratic Republic) (CD)]		
52	Congo (CG)]		
53	Cook Islands (CK)]		

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

73 Fa	alkland Islands (FK)		
74 Fa	aroe Islands (FO)	Faeroe Islands replaced by Faroe Islands	Faeroe Islands replaced by Faroe Islands
75 Fi	iji (FJ)		
76 Fi	inland (FI)		
77 Fr	rance (FR)		
78 Fr	rench Guiana (GF)		
79 Fr	rench Polynesia (PF)		
80 Fr	rench Southern Territories (TF)		
81 Ga	abon (GA)		
82 Ga	ambia (GM)		
83 G	eorgia (GE)		
84 G	ermany (DE)		
85 GI	hana (GH)		
86 Gi	ibraltar (GI)		
87 G	reece (EL)	EL instead of GR	EL instead of GR
88 G	reenland (GL)		
89 G1	renada (GD)		
90 G	uadeloupe (GP)		
91 G	uam (GU)		
92 G	uatemala (GT)		
93 G	uernsey (GC)		

Guinea (GN)
Guinea-Bissau (GW)
Guyana (GY)
Haiti (HT)
Heard Island and McDonald Islands (HM)
Holy See (VA)
Honduras (HN)
Hong Kong HK)
Hungary (HU)
Iceland (IS)
India (IN)
Indonesia (ID)
Iran (IR)
Iraq (IQ)
Ireland (IE)
Isle of Man (IM)
Israel (IL)
Italy (IT)
Jamaica (JM)
Japan (JP)

Republic of Hungary replaced by Hungary	Republic of Hungary replaced by Hungary

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

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

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

176	Philippines (PH)			
177	Pitcairn (PN)			
178	Poland (PL)			
179	Portugal (PT)			
180	Puerto Rico (PR)			
181	Qatar (QA)			
182	Réunion (RE)			
183	Romania (RO)			
184	Russian Federation (RU)			
185	Rwanda (RW)			
186	Saint Barthélemy (BL)			
187	Saint Helena, Ascension and Tristan da Cunha (SH)		Saint Helena replaced by Saint Helena, Ascension and Tristan da Cunha	Saint Helena replaced by Saint Helena, Ascensio and Tristan da Cunha
188	Saint Kitts and Nevis (KN)			
189	Saint Lucia (LC)	1		
190	Saint Martin (MF)]		
191	Saint Pierre and Miquelon (PM)]		
192	Saint Vincent and the Grenadines (VC)]		
193	Samoa (WS)]		
194	San Marino (SM)	1		
	1	1		

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

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

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

Resource TRL

According to Horizon 2020

No.	Technology Readiness Level	Description	Changes v1.13 to v3.00	Changes v1.30 to v3.00	0
1	TRL1	Basic principles observed			

2	TRL2	Technology concept formulated		
3	TRL3	Experimental proof of concept		
4	TRL4	Technology validated in lab	Use of EU definitions	Use of EU
5	TRL5	Technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)		definitions
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			
2	Discovery	Researching users needs, exploring technological or policy constraints			
3	Design	Resource in design			
4	Preparation	Resource in preparatory phase	Updates in	New	Updates in
5	Planned	Resource plan defined	Description	INEW	Description
6	Alpha	Resource prototype available for closed set of users			
7	Beta	Resource being developed while available for testing publicly			
8	Implementation	Resource in deployment			

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

Resource Funding Body

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

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

	Γ
32	Federal Ministry of Education and Research (BMBF) - Germany
33	Finnish Funding Agency for Innovation (TEKES)
34	Flanders Innovation & Entrepeneurship (VLAIO) - Belgium
35	Fonds National de la Recherche Scientifique (FNRS) - Belgium
36	Foundation for Fundamental Research on Matter (FOM) - Netherlands
37	Foundation for Polish Science (FNP) - Poland
38	General Secretariat for Research and Technology (GSRT) - Greece
39	Foundation for Science and Technology (FCT) - Portugal
40	French National Aerospace Research Center (ONERA) - France
41	French National Research Agency (ANR) - France
42	French Polar Institute (IPEV) - France
43	French Research Institute for Exploitation of the Sea (IFREMER) - France
44	Fritz Thyssen Foundation (FTS) - Germany
45	General Operational Directorate for Economy, Employment and ResearchDGO6) - Belgium
46	German Aerospace Center (DLR) - Germany
47	Icelandic Centre for Research (RANNIS) - Iceland
48	Innovation Fund Denmark
49	Innovation Fund of the Ministry of Economy of the Slovak Republic (IMSR) - Slovakia
50	International Science Council (ISC)
51	Irish Research Council (IRC) - Ireland

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

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

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

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

130 Other

Resource Funding Program

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

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

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

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

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

Resource Order Type

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