

Highlights and Contributions to EOSC Portal

Informal review of EOSC-hub and OpenAIRE-Advance

24 January 2019 European Commission, Luxembourg





















Alasdair Reid, Jelena Angelis, Elina Griniece, Christine de Neve (EFIS), Jorge Sanchez, Nikos Vogiatzis, Nektaria Berikou, Theodore Ntezes, Panos Spyrou (JNP), Natalia Manola, George Papastefanatos, Akrivi Katifori, Stefania Martziou, Antonis Lempesis (UoA), Jan Wiebelitz, Gabriele von Voigt (LUH), Yannick Legre, Sergio Andreozzi, Malgorzata Krakowian (EGI), Rob Baxter (EPCC), Annabel Grant, Michelle Williams, Shaun Cairns, Karl Meyer (GEANT), Donatella Castelli, Paolo Manghi, Franco Zoppi (CNR), Florian Berberich, Pedro Alberto, Manuel Fiolhais (PRACE)

Project





Coordination and Support Action (CSA) in Horizon 2020 Programmme (INFRASUPP-03-2016-b-3 call)



Implementation period: January 2017 – June 2019 (30 months)



9 partners, including 5 major e-infrastructures



Effort: 138.5 PMs, Budget: €1.5m€



Mission





Ensure that by 2020 a broader and more varied set of users discovers and accesses the existing and emerging Services and Resources for Research





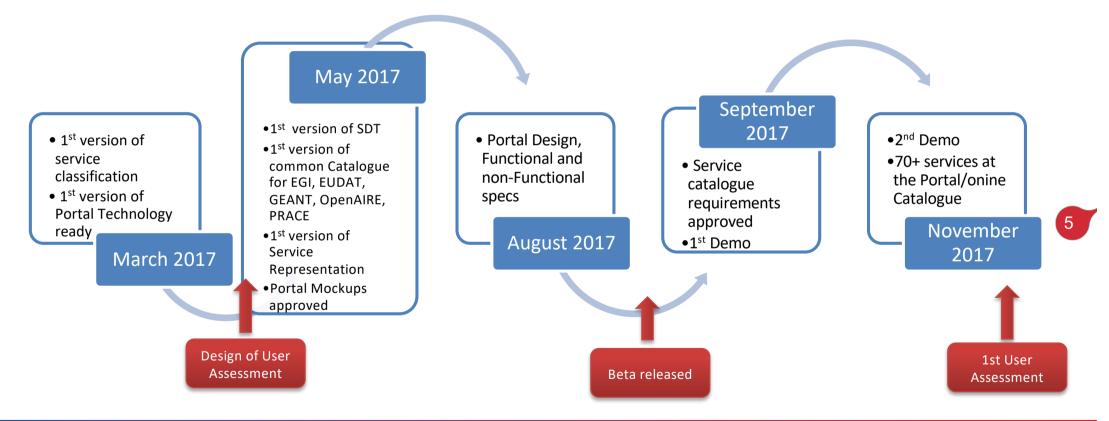
Core Objectives and Key Results





Highlights 2017

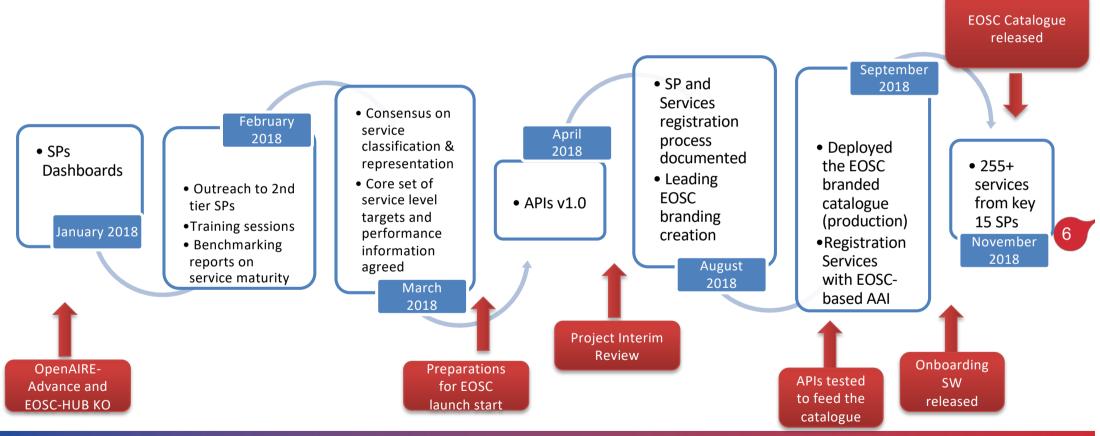






Highlights 2018







Key activities 2019



- Update of SDT (v1.13) turning it into EOSC SDT
- Benchmarking Reports for registered SPs (target 10)

February 2019

March 2019

- Dashboard visualisation tools
- Service uptake, trends, comparisons, correlations
- Regional/discipline outreach, targeted stakeholders etc.

 Update of SP Registration Process

 Benchmarking Reports for registered SPs (target +15)

May 2019

June 2019

- Update SDT (v2)
- Update API (v2)
- Update EOSC Catalogue (25+ SPs)

• SDT, APIs, OBP, Catalogue Platform extended with CatRIS, INFRAEOSC-06-2019-2020

July+

INFRAEOSC-06-2019-2020

Tallinn Event

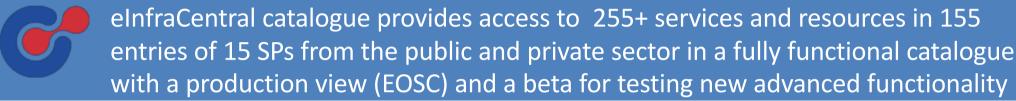
CatRIS KO

2nd User Assessment





EOSC and eInfraCentral Catalogue































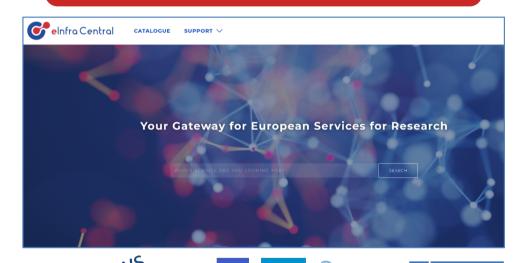




catalogue.eosc-portal.eu



beta.einfracentral.eu

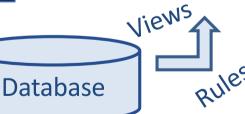


























Detailed Achievements related to the EOSC

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1. First Common Catalogue of Services

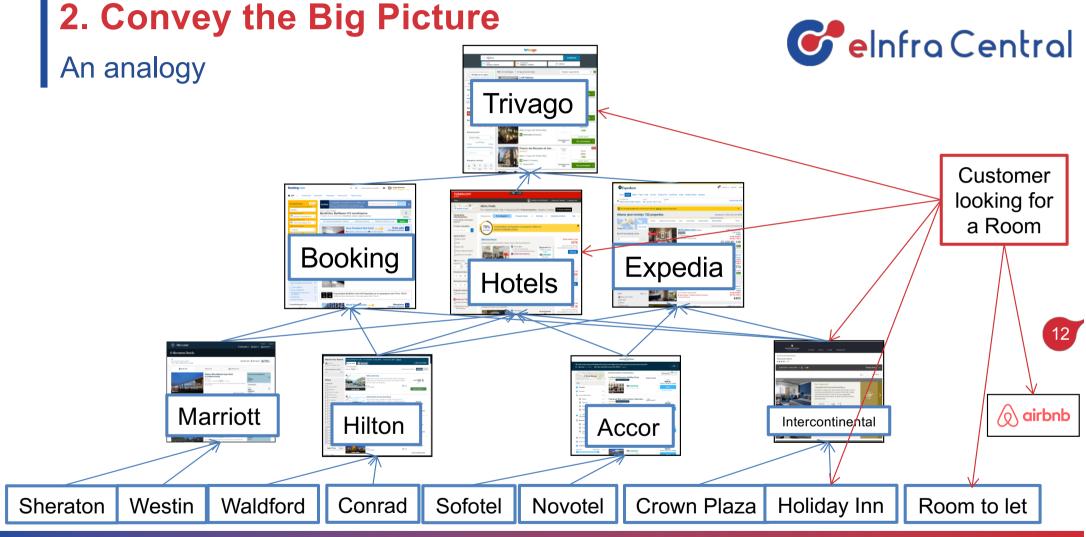
EGI, EUDAT, OpenAIRE, GEANT, PRACE



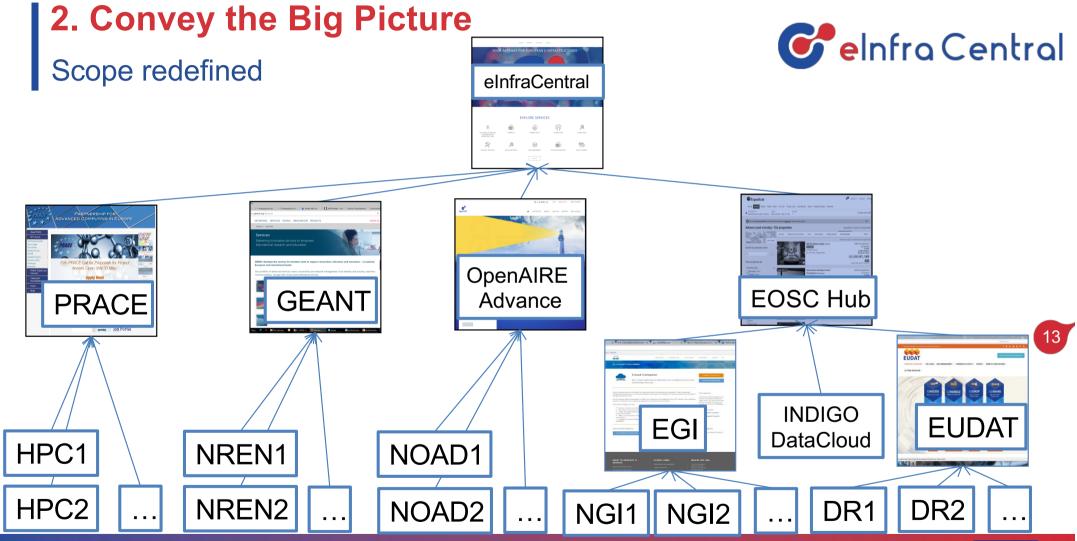


G eli	nfra Central			Service Catalogue	е	
Service ID	Service Brand Name	Service Provider		Service Category/Typr	Service Phase/TP'	Service Webpage
01.01	Cloud Container Compute	EGI Foundation (via EGI resource providers)	Customers: research organisations, SME/Industry Users: researchers, innovators	Compute	Production	https://www.egi.eu/services/cloud-container/
01.02	Cloud Compute	EGI Foundation (via EGI resource providers)	Customers: research organisations, SME/Industry Users: researchers, innovators	Compute	Production	https://www.egi.eu/services/cloud-compute/
01.03	High-Throughput Compute	EGI Foundation (via EGI resource providers)	Customers: research organisations, SME/Industry Users: researchers, innovators	Compute	Production	https://www.egi.eu/services/high-throughput-compute/
01.04	DIRAC Manager	EGI Foundation (via EGI resource providers)	Customers: research organisations, SME/Industry Users: researchers, innovators	Platform	Alpha	https://www.egi.eu/services/
01.05	Online Storage	EGI Foundation (via EGI resource providers)	Customers: research organisations, SME/Industry Users: researchers, innovators	Storage and Data	Production	https://www.egi.eu/services/online-storage/
01.06	Archive Storage	EGI Foundation (via EGI resource providers)	Customers: research organisations, SME/Industry Users: researchers, innovators	Storage and Data	Production	https://www.egi.eu/services/archive-storage/
01.07	Data Transfer	EGI Foundation (via EGI resource providers)	Customers: research organisations, SME/Industry Users: researchers, innovators	Storage and Data	Production	https://www.egi.eu/services/data-transfer/
01.08	DataHub	EGI Foundation (via EGI resource providers)	Customers: research organisations, SME/Industry Users: researchers, innovators	Storage and Data	Alpha	https://www.egi.eu/services/
01.09	FitSM Training	EGI Foundation	Customers: Any organisation that delivers II services Users: All individuals involved in the provisioning of (federated) IT	Training	Production	https://www.egi.eu/services/fitsm-training/
01.10	Training Infrastructure	EGI Foundation	Users: Attendees of cloud training courses, Attendees of scientific	Training	Production	https://www.egi.eu/services/training-infrastructure/
01.11	Applications Database	EGI Foundation (via EGI resource providers)	Customers: EGI service Providers Users: researchers, innovators	Repository	Production	https://www.egi.eu/services/
01.12	Service Monitoring	EGI Foundation (via EGI resource providers)	Customer: EGI service providers User: EGI users	Operations	Production	https://www.egi.eu/internal-services/service-monitoring/
01.13	Accounting	EGI Foundation (via EGI resource providers)	Customer: User communities and EGI service providers. User: VO Managers, Resource providers management	Operations	Production	https://www.egi.eu/internal-services/accounting/
01.14	Helpdesk	EGI Foundation (via EGI resource providers)	User: Users of the infrastructure, Software developers and support,	Operations	Production	https://www.egi.eu/internal-services/helpdesk/
01.15	Configuration Database	EGI Foundation (via EGI resource providers)	Customer: EGI service providers User: Infrastructure operators, service operators	Operations	Production	https://www.egi.eu/internal-services/configuration-database/
01.16	Validated Software and Repository	EGI Foundation (via EGI resource providers)	Customer: EGI service providers User: Site administrators; software developers.	Repository	Production	https://www.egi.eu/internal-services/validated-software-and-repository/
01.17	Operational tools	EGI Foundation (via EGI resource providers)	User: NGI Operations Manager, Resource Centre Administrators, VO	Operations	Production	https://www.egi.eu/internal-services/operational-tools/
01.18	Marketplace	EGI Foundation (via EGI resource providers)	Customer: Eur service providers, Research and Lechnology Organisations (RTOs) and universities, Research communities,	Operations	Alpha	https://www.egi.eu/internal-services
01.19	CheckIn	EGI Foundation (via EGI resource providers)	Customer: EGI service providers, Research communities User: Both end-users and service managers	Security	Beta	https://www.egi.eu/internal-services/
01.20	Attribute Management	EGI Foundation (via EGI resource providers)	Customer: Research communities, research infrastructures User: VO Managers	Security	Production	https://www.egi.eu/internal-services/
02.01	B2SAFE	EUDAT CDI consortium	Community data manager; service provider	Data storage	Production	https://www.eudat.eu/services/b2safe
02.02	B2SHARE	CSC	Individual researchers; community data manager	Data storage	Production	https://www.eudat.eu/services/b2share
02.03	B2DROP	JSC	Individual researchers; community data manager	Data storage	Production	https://www.eudat.eu/services/b2drop
02.04	B2FIND	DKRZ	Individual researchers; community data manager	Data discovery	Production	https://www.eudat.eu/services/b2find
02.05	B2STAGE	EUDAT CDI consortium	Individual researchers; community data manager	Data movement	Production	https://www.eudat.eu/services/b2stage
02.06	B2HANDLE	EUDAT CDI consortium	Service provider; community data manager	Data registration	Production	https://www.eudat.eu/services/b2handle
02.07	B2ACCESS	JSC	Service provider; community data manager	Authentication and Authorization Infrastructure	Production	https://www.eudat.eu/services/b2access







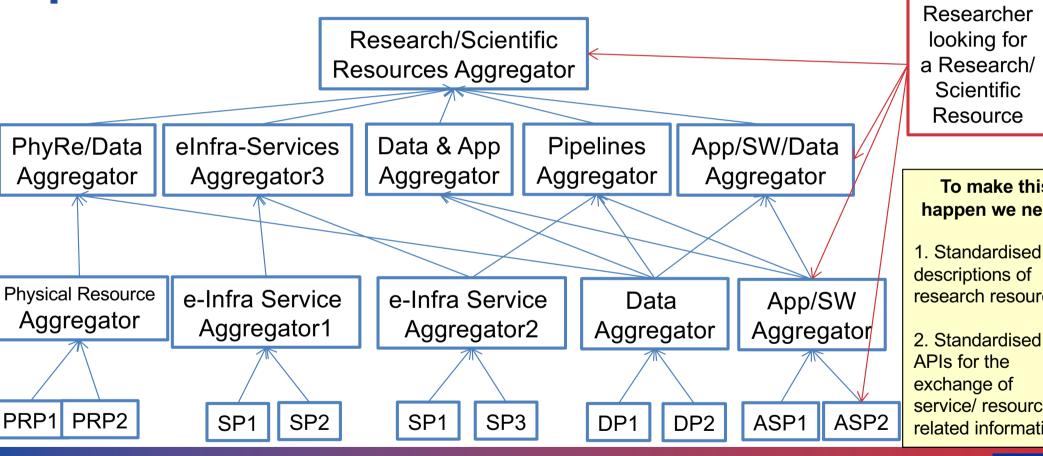




2. Convey the Big Picture



Dynamics of a market and needs of a user



To make this happen we need:

- 1. Standardised descriptions of research resources
- service/ resourcesrelated information





Target within eInfraCentral

GEANT

NREN2

NREN1

PRACE

HPC2

HPC1

OpenAIRE

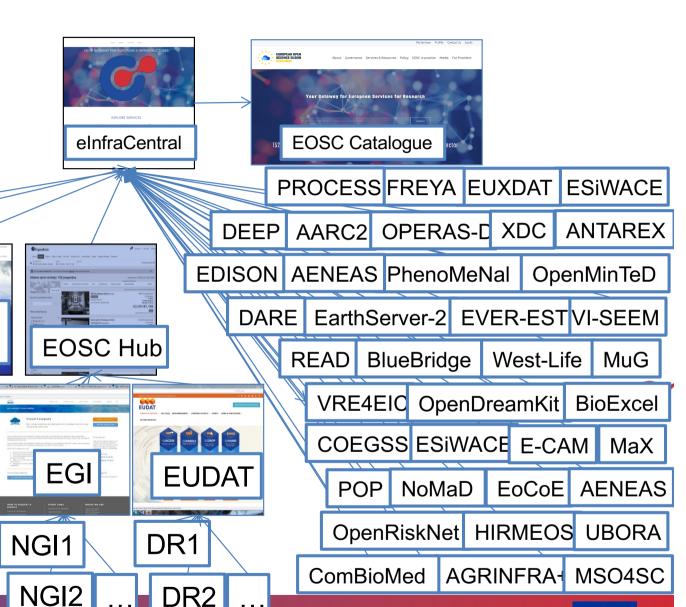
Advance

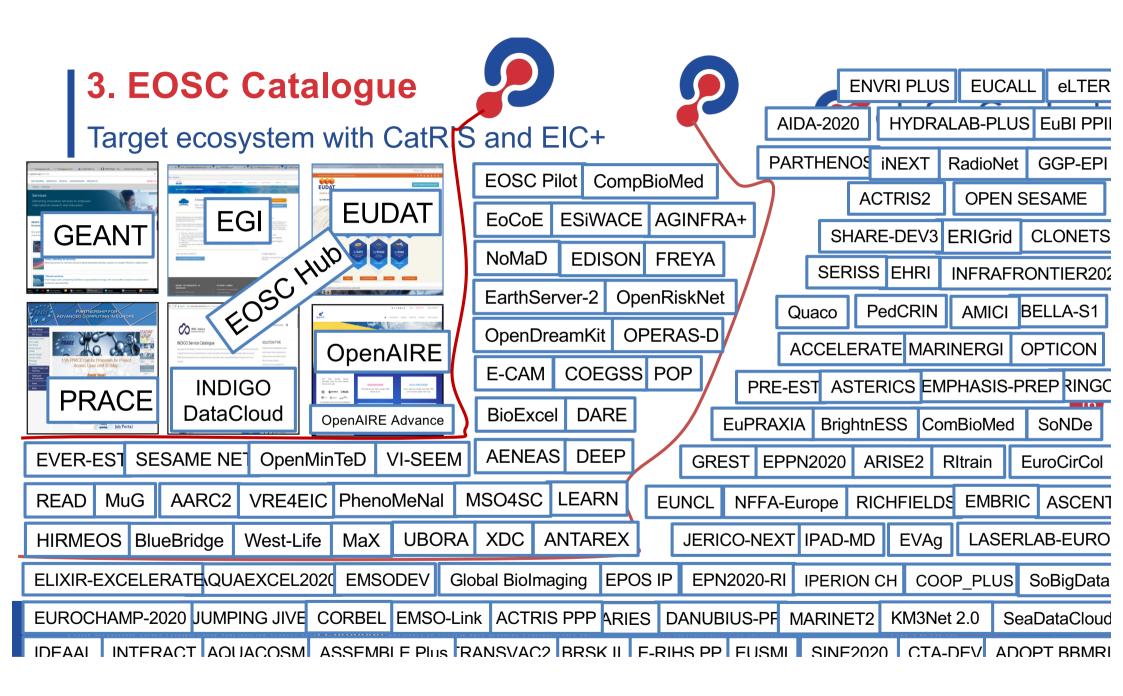
NOAD1

NOAD2

INDIGO

DataCloud





3. EOSC Catalogue

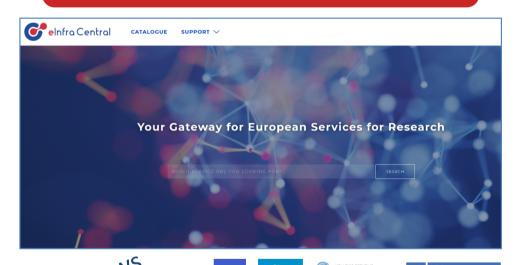


A branded and featured view of the eInfraCentral Catalogue

catalogue.eosc-portal.eu

beta.einfracentral.eu























4. Service/Resource Description Template

Way to homogeneously describe the offerings





Service Description Template V1.12 July 2018

elafraCentral has received funding from the European Union's Horizon 2020

elnfraCentral

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Service Description Template, v1.12, July 2018

Gottfried Wilhelm Leibniz Universitaet Hannover/e-IRG: Jan Wiebelitz, Gabriele von Voigt Stichting EGI/EOSC-Hub: Yannick Legre, Sergio Andreozzi, Malgorzata Krakowian EPCC/FUDAT: Rob Baxter

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Search for eInfraCentral+github or

https://github.com/eInfraCentral







		Basic Service	e Information	
Service ID	Mandatory	Global unique and persistent identifier of the service.	The first part denotes a unique identifier for the Service Provider and the second part the unique identifier of the service within the Service Provider.	01.03
Service URL	Mandatory	The Uniform Resource Locator (web address) to the entry web page of the service usually hosted and maintained by the service provider.	Create a unique URL for each service and provide the shortest possible alias	http://www.service-provider.eu/service-name or http://service-name.service-provider.eu
Service Provider Name	Mandatory	The organisation that manages and delivers the service and with whom the customer signs the SLA.		e.g. GEANT, PRACE, EGI, EUDAT, OpenAIRE, etc.
Service Name	Mandatory	Brief and descriptive name of service as assigned by the service provider.	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 service is about. This attribute will be used in the search function to prioritise results.	B2DROP
Service Tagline	Optional	Short text, catch line or slogan which serves mainly marketing and advertising purposes.	Marketing specialists are encouraged to be engaged in order to come up with a catch phrase that can aid service dissemination and visibility.	Store, share and access your files and their metadata on a global scale
Service Description	Mandatory	High-level description in fairly non-technical terms of what the service does, functionality it provides and resources it enables access to.	Description in one paragraph without bullets or rich HTML. This field is used in the search function to prioritise results.	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.
Service Options	Optional	A high-level description of the various options or forms in which the service can be instantiated.	Non-exaustive description in one paragraph without bullets or rich HTML	"Standard or enhanced", "Bronze, silver and gold", "10, 20 30", "Elementary Level, Advanced Level, Expert Level"
Target Users	Optional	Type of users/customers allowed to commission/benefit from the service.	This field is important in order to determine the primary benefited users of the Service. Target users should be defined as accurately and as inclusive as possible at the same time.	Research Organisations, Industry, SMEs, Researchers, Scientists, Funders, Policy Makers, Service Providers, Data Providers, etc.
User Value	Optional	Description of the benefit delivered to a customer/user by the service.	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).	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.
User Base	Optional	List of customers, communities, users, etc using the service.	Description should be as quantified as possible.	900+ data providers in Europe with different compatibility levels. Adoption in Latin America (LaReferencia), Mexico and Japan.
Service Symbol	Mandatory	The Uniform Resource Locator (web address) to the logo/visual identity of the service.	Provide the shortest possible URL to the service logo. It is better that each service has its own logo with the same look and feel.	http://service-name.service-provider.eu/Symbol.jpg
Service Multimedia	Optional	The Uniform Resource Locator (web address) to the multimedia material of the service (screenshots or videos).	Provide the shortest possible URL to a video or other multimedia material.	http://service-name.service-provider.eu/Multimedia





		Service Clas	ssification Information	
Service Version	Mandatory	Informs about the service version that is in force.	Only stable releases should be referenced.	3.1
Service Last Update	Mandatory	The date of the latest update of the service.	The date should refer to when the updated version became available to users, not when it was developed or released internally in the SP.	43159
Service Change Log	Optional	A log of the service features added in the last and previous versions.	Clear, staccato sentences for each feature should be used.	Upgrade of user interface. Correction of minor bugs.
Service Valid for	Optional	The date up to which the service description is valid.	You may put here the date a related project is planned to conclude and this migh lead to a change in the service delivery model. The expiring date should imply validity period until 23:59:59. In case it is earlier, the previous day should be used in the date.	03/12/2018
Service Life Cycle Status	Mandatory	Used to tag the service to the full service cycle.	For the eInfracentral catalogue, allowed values are: Alpha, Beta and Production.	Production
Service TRL	Mandatory	Used to tag the service to the Technology Readiness Level, a method of estimating technology ma-turity of critical technology elements. TRL are based on a scale from 1 to 9 with 9 being the most mature technology.	Notes that the state of the sta	For the eInfracentral catalogue, allowed values are: 7 - system prototype demonstration in operational environment, 8 - system complete and qualified, 9 - actual system proven in operational environment.
Service Category	Mandatory	A named group of services that offer access to the same type of resource that is of interest to a customer/user.	Select only one category.	Networking
Service Subcategory	Mandatory	Type/Subcategory of service within a category	Select only one be subcategory.	Direct Connect
Service Place	Mandatory	Regions/Countries Availability	-	World
Service Language	Mandatory	Languages of the User interface	-	English
Service Tags	Optional	Attribute to facilitate searching based on keywords.	This field will be used in the search function to prioritise results. This field is very important to make your service discorerable.	AIA, Security
Required Services	Optional	Other services that are required with this service.	List of Service IDs. If needed, give the name of a service. When registered in the catalogue this will be replaced by the ID.	01.21
Related Services	Optional	Other services that are commonly used with this service.	List of Service IDs. In preparation note the name of a service. When your services are registered in the catalogue this should be replaced by the SID.	03.04



4. Service/Resource Description Template v1.12 elnfra Central



		Service Support Info	rmation	
Service Order	Mandatory	The Uniform Resource Locator (web address) to the webpage to request the service from the service provider.	Visible to Customers	http://service-name.service-provider.eu/Order
Service Helpdesk	Optional	The Uniform Resource Locator (web address) to a webpage with the contact person or helpdesk to ask more information from the service provider about this service.		http://service-name.service- provider.eu/Helpdesk http://helpdesk.service- provider.eu
Service User Manual	Optional	The Uniform Resource Locator (web address) to the service user manual and documentation.		http://service-name.service-provid- er.eu/UserManual
Service Training Information	Optional	The Uniform Resource Locator (web address) to training information on the service.		http://service-name.service-provider.eu/Training
Service Feedback	Optional	The Uniform Resource Locator (web address) to the page where customers can provide feedback on the service.		http://service-name.service- provider.eu/Feedback
		Service Contractual In	formation	
Service Price	Optional	The Uniform Resource Locator (web address) to the information about the payment models that apply, the cost and any related information.		http://service-name.service-provider.eu/Price
Service Level Agreement	Mandatory	The Uniform Resource Locator (web address) to the information about the levels of performance that a service provider is expected to achieve.	Take a look at EGI SLA https://www.dropbox.com/s/86z098cd1ipzwir/E GI%20Corporate%20SLA%20FINAL.PDF?dl=0) and EUDAT SLA https://www.dropbox.com/s/86z098cd1ipzwir/E GI%20Corporate%20SLA%20FINAL.PDF?dl=0 to formulate. It can be very simple to start with. One page.	http://service-name.service-provider.eu/SLA
Service Terms Of Use	Optional	The Uniform Resource Locator (web address) to the webpage describing the rules, service conditions and usage policy which one must agree to abide by in order to use the service.		http://service-name.service-provid- er.eu/TermsOfUse
Service Funding	Optional	Sources of funding for the development and/or operation of the service.	Publicity guidelines of each respective funding sources should be adhered to. Good if you could give here reference to EC or other public funding.	EC (Horizon) and National (NREN) Development: EC (H2020), National (NREN). Operations: National (capacity and federation), EC (federation).





	Service	e Performance Information		
Service Requests	Optional	The total number of demands for a specific service, e.g. service access requests, service information requests, requests for other material service attributes, etc.		15
Service Users	Optional	The total number of people who utilise a specific service.		200
Service Usage	Optional	The level or percentage of actual penetration/utilisation of a specific service.	As many decimal points as needed should be used.	35,00%
Service Capacity	Optional	The maximum volume of available service provision while maintaining standards of quality and performance. e.g. 30.000 concurrent users, 3.000 service orders per day, etc.		3000 service orders per day
Service Coverage	Optional	The range of geographical areas and/or thematic sectors that a service is addressed to, e.g. EU Member States (regional), high energy physics (scientific community) etc.		EU Member States (regional)
Service Cost	Optional	The monetary value that a user is requested to pay in order to utilise a specific service, e.g. free of charge, 100 \in , etc.		Free of charge
Service Availability	Optional	Availability, i.e., the fraction of a time period that an item is in a condition to perform its intended function upon demand ("available" indicates that an item is in this condition); availability is often expressed as a probability.	As many decimal points as needed should be used.	99,99%
Service Reliability	Optional	Reliability, i.e., the probability that an item will function without failure under stated conditions for a specified amount of time. "Stated conditions" indicates perquisite conditions external to the item being considered. For example, a stated condition for a supercomputer might be that power and cooling must be available thus a failure of the power or cooling systems would not be considered a failure of the supercomputer.	As many decimal points as needed should be used.	98.1%
Service Serviceability/Durability	Optional	Serviceability, i.e., the probability that an item will be retained in, or restored to, a condition to per-form its intended function within a specified period of time Durability, i.e., the ability of a physical product to remain functional, without requiring excessive maintenance or repair, when faced with the challenges of normal operation over its design lifetime.	As many decimal points as needed should be used.	99.99%, High, Very High,
Service Performance Indicator Name	Optional	Other Service Level Target or Performance Infdicator	N/A	Total number of service orders
Service Performance Indicator Value	Optional	Indicator Value Measurement of Other Indicator	N/A	1





Super Categories	Categories	Subcategories
		Direct Connect
		Virtual Network
		Load Balancer
	Notworking	VPN Gateway
	Networking	Exchange
		Content Delivery Network
		Traffic Manager
		Other
		Virtual Machine Management
		Container Management
		Job Execution
	Compute	Workload Management
Infrastructure Services		Orchestration
(or Enabling Services)		Serverless Applications Repository
,		Other
		Data
		File
		Queue
		Disk
		Online
	Storage	Archive
		Backup
		Synchronised
		Replicated
		Recovery
		Other





Government and agency data Statistical data Scientific data Research Data Online service data Other
Preparation Discovery Analysis Writing Publication Outreach Assessment
Other Software Repository Platform Software Package Libraries Other
Communication Collaboration Productivity Business Education Social Utilities Applications Repository Other
Developer Tools Software Development Kits Libraries APIs Repository/Gateway Other
Services Services & Datasets Sevices & Applications Services & Software Applications & Datasets Software & Datasets Applications & Software Services & Applications & Datasets Services & Applications & Datasets Services & Software & Datasets Services & Applications & Software





	Workflows (Experiments)	
		Mining
		Access
		Transfer
		Registration
		Persistent Identifier
		Interlinking
	Data Management	Publishing
Processing & Analysis	Data Management	Discovery
		Anonymisation
		Preservation
		Brokering
		Annotation
		Validation
		Other
		Machine Learning
		Artificial Intelligence
		Forecast output visualization and access
	Analytics	Data access and computing
		Data exploitation
		General user service
		Other





			User authentication
			Identity and access management
			Threat protection
			Coordination
		Coought O Idoutity	Tools
		Security & Identity	Certification authority
			Single Sign-On
			Firewall
			Group Management
4	Co		Other
4	Security & Operations		Accounting
			Helpdesk
			Monitoring
			Analysis
		Operations & Infrastructure	Configuration
		Management Services	Utilities
			Coordination
			Billing
			Order Management
			Other





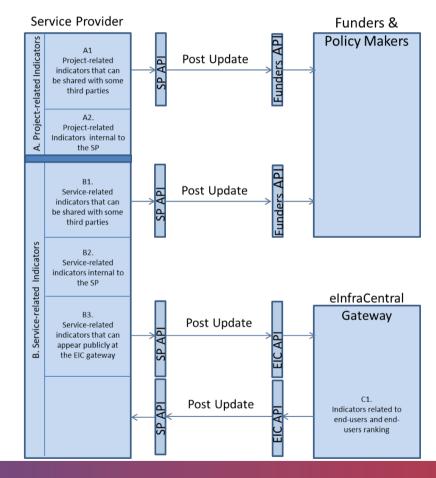
				Online Courses
			Highly-specialized seminars	Open Registration Courses
		# white	and courses to help advance	In-house Courses
		Training	[your] research knowledge and sharpen [your] scientific	Training Tool
			skills.	Training Platform
				Other
				Consulting
5	Training & Support			Audit and Assessment
				Certification
			Dedicated professional	Application Porting
		Advisory Services	support for a wide range of	Application Scaling
			scientific disciplines and research activities.	Application Optimisation
				Software Development
				Software Improvement
				Other



6. Performance Monitoring Framework









7. Labelling on Catalogue Maturity

Long-term catalogue quality

- Methodology introduced by JNP to improve the "service readiness" of SPs.
- A SP is awarded with a label based on 41 quality indicators assessed by 3 independent reviewers.
- A comparison to other SPs is provided and recommendations to improve the service catalogue and related processes.
- Data and report are treated with confidentiality; not available to any other third party, unless the service provider has agreed beforehand in written manner









8. Service Provider Registration Process Rules of Participation

- A transparent, inclusive and open process for the registration of SPs and their Services/Resources in the eInfraCentral Gateway that can be followed by all interested parties irrespectively of their maturity.
- With a long-term aim to find paths of the process that can be automated so as to allow scalability and avoid bottlenecks in the registration process.
- The Process includes currently 6 steps
- One more will be added to support the registration to the EOSC marketplace





Service/Resource Providers Registration Process August 2018





8. Service Provider Registration Process Onboarding in practice



ADD NEW SERVICE PROVIDE	1	
AN ADMINISTRATOR WILL BE	ADDED USING YOUR USER INFORMATION	
FIRST NAME:	George	
LAST NAME:	Papastefanatos	
EMAIL ADDRESS:	gpapastefanatos@gmail.com	
NAME OF YOUR SERVICE PROVIE	CE PROVIDER, THIS CANNOT BE CHANGED LATER (*)	
e.g. openaire, egi etc (a short id without spaces). LOGO URL		
note. Include 'http://" or 'https://" to the url.		

Deactivate T-Systems International GmbH Deactivate Deactivate World-wide E-infrastructure for Deactivate structural biology Deactivate Deactivate approved Deactivate Deactivate VI-SEEM approved approved Deactivate EUDAT

Registration

Validation



Way to exchange information and interoperate

- Guidelines for the REST API and the servicerelated representation and specifications for the exchange of information among service providers and third party applications.
- The APIs methods offer the functionality to programmatically access, search and retrieve the contents of the catalogue, such as services, service providers, service performance indicators and service analytics.







10. Portal Functionality Compare Personalize Search View Browse Request Add to Service Categories Keyword Service Service characteristics Favorites search Details from Services Register to Service ratings provider Filters Service **Alerts** stats Register Update (Web & API) Analyze Service Descriptions Service updates Organization Service manager users •Service Level Target Indicator updates Indicators Service stats from portal Services Service Level Target **Indicators** View Visualize & Analyze Compare Personalize Service Details Services Service Statistics Add to Favorites Indicators Service Level Target •Service Level Target Register to Alerts Indicators Indicators Service evolution Service rating Service provider

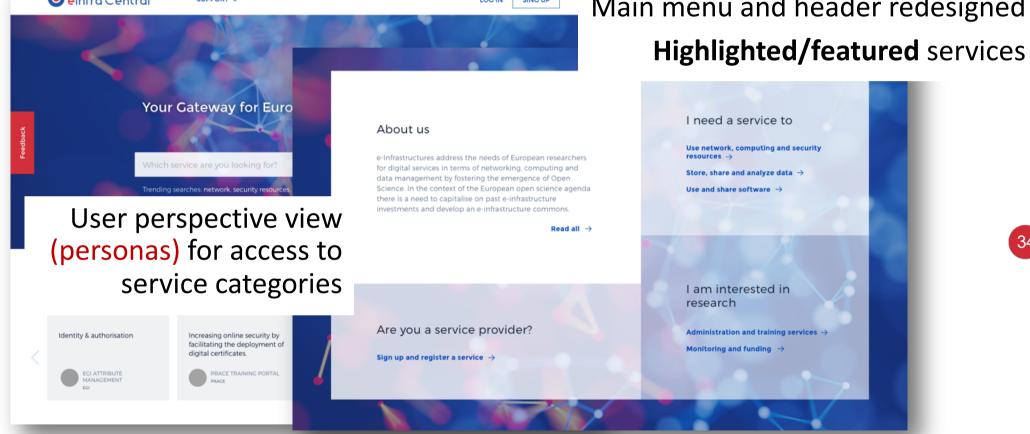
statistics





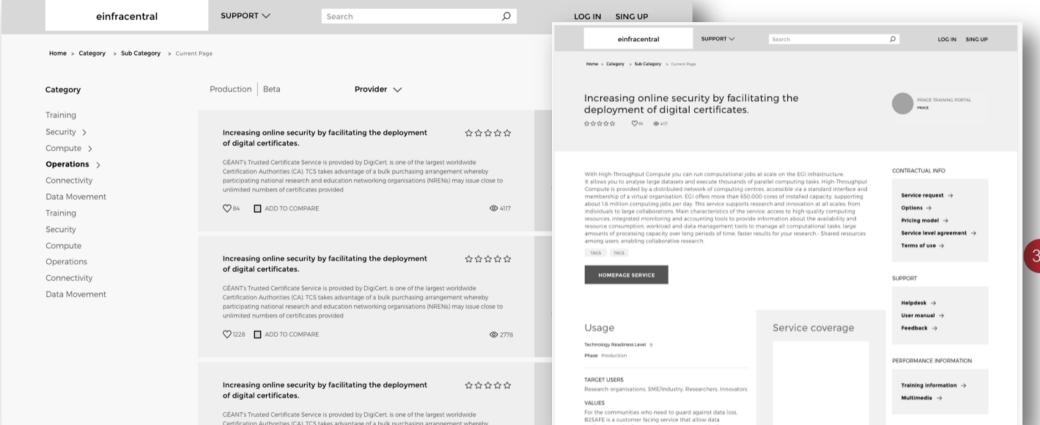






11. ViewsDirect and compact







elnfra Central

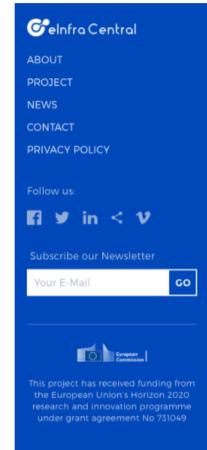
11. Views Mobile













12. SP Dashboards



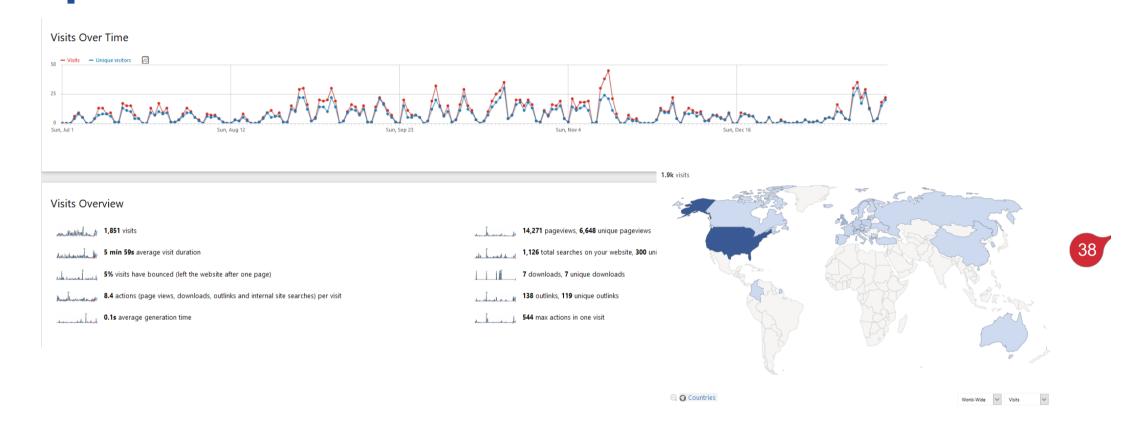




1 to 100 to 100

13. Analytics









Demonstration

Informal review of EOSC-hub and OpenAIRE-Advance

24 January 2019 European Commission, Luxembourg















Alasdair Reid, Jelena Angelis, Elina Griniece, Christine de Neve (EFIS), Jorge Sanchez, Nikos Vogiatzis, Nektaria Berikou, Theodore Ntezes, Panos Spyrou (JNP), Natalia Manola, George Papastefanatos, Akrivi Katifori, Stefania Martziou, Antonis Lempesis (UoA), Jan Wiebelitz, Gabriele von Voigt (LUH), Yannick Legre, Sergio Andreozzi, Malgorzata Krakowian, Sy Holsinger (EGI), Rob Baxter (EPCC), Annabel Grant, Michelle Williams, Shaun Cairns, Karl Meyer (GEANT), Donatella Castelli, Paolo Manghi, Franco Zoppi (CNR), Florian Berberich, Pedro Alberto, Manuel Fiolhais (PRACE)



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Policy



- Continue focus on developing the components that allow for interoperability:
 - a single Service/Resource Description Standard
 - the one and only related API
- Facilitate the community with a shared vocabulary about Service Management, SM management standards and frameworks
- Support SPs to become professional in service provisioning, user-oriented, user-centric, business-focus and adopting FAIR principles
- Devise a framework to maintain the quality level of the catalogue and thus its sustainability (including the rules of engagement, registration process, quality report, user ratings, etc)
- Drive consensus on the service-level performance indicators and monitoring framework.
 Research/scientific resource providers are reluctant to share performance related information to any third party mainly because of "fear" of misuse.
- Take special actions to communicate to all scientific communities, industry, government and citizens, in all member states, about the EOSC Portal to collect additional requirements and related feedback





Characteristics of the Catalogue





Technical

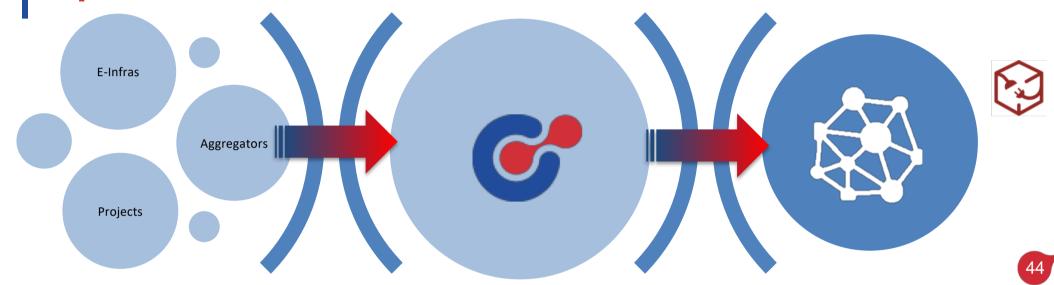


- Advanced catalogue functionality to improve the user experience
- Improve user centric approach with added value services to users
- New options for service listings and comparisons
- New algorithms for service recommendations to users
- Additional user personalization capacities
- Allow for users to build their portfolios
- Establish multi-facetted service ordering processes
- Technically push on interoperability among catalogues and marketplaces

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Open REST API



Service providers

Service Level Target Indicators Service Description Details **Eosc Catalogue**

Service catalogue consumer

EOSC Marketplace Service classification and vocabularies Service Analytics collected



Thank you



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