

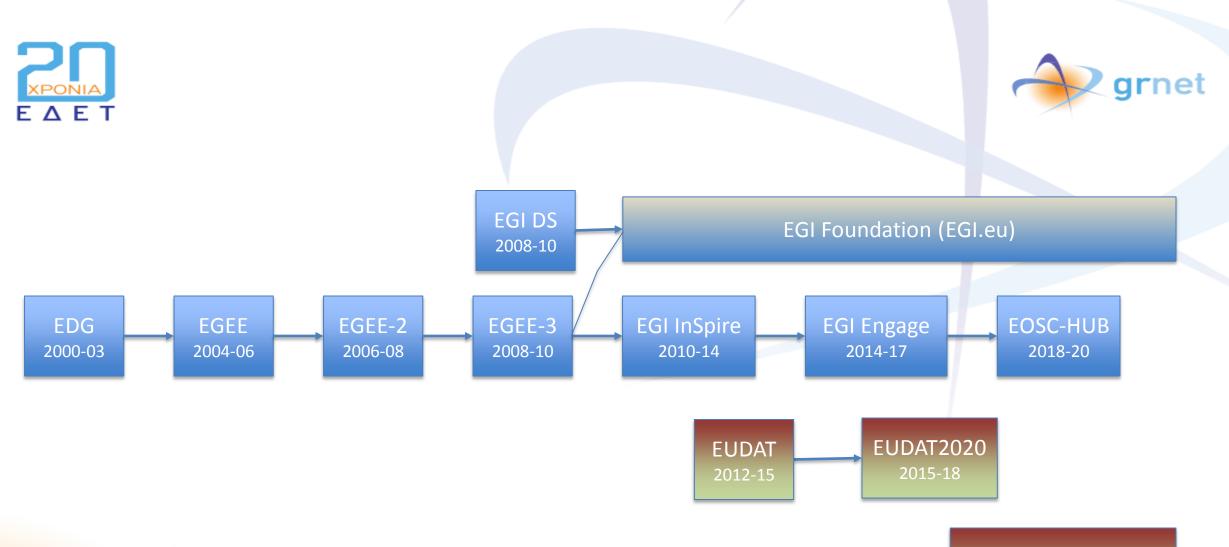
Συμπόσιο Ψηφιακής Τεχνολογίας

Νέες Διαστάσεις στην Έρευνα & Εκπαίδευση



E-INFRASTRUCTURES

Κ. Κουμάνταρος



EUDAT CDI 2015-18





EOSC-hub support to the European Open Science Cloud





EOSC-hub receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 777536.

Dissemination level: Public

EOSC-hub About the European Open Science Cloud

A EC high-level initiative addressing the fragmentation of today's European digital infrastructures for research

EOSC Objectives	Actions
Increase the ability to exploit research data across scientific disciplines and between the public & private sector	 Publish, discover, access services and resources for all scientific disciplines Open to national, regional, pan-European providers, and supports different exploitation models (e.g. free at point of use, commercial)
Increase interoperability, interconnect the existing and the new research digital infrastructures across Europe	 Provide thematic services integrated with European compute/data platforms for data exploitation Single sign on, integrated access and order
Support open science	> Services to share and discover research artefacts (publications, datasets, software, workflows etc.), research artefacts data sources (publication repositories, publishers, data archives, software archives, etc.)



The Hub: *a European contact point to discover, access, use and reuse resources for advanced data-driven research*

> 20 digital research infrastructures, EGI, EUDAT CDI and INDIGO-DataCloud jointly offering services, software and data for advanced, data-driven research & innovation

EOSC-hub

EOSC-hub EOSC-hub contributions to the EOSC roadmap

EOSC strategic actions 1/3

Architecture	Provides a framework to manage services sourced
	from a number of service providers and plays the
	role of service integrator.

DataThrough the EOSC-hub Marketplace, provides adiscovery and access channel to FAIR-accrediteddatasets

EOSC-hub EOSC-hub contributions to the EOSC roadmap

EOSC strategic actions 2/3

Services

Contributes to the definition of a participatory and lightweight **service portfolio management process** in collaboration with the participating service providers.

Engages with the demand and supply side of the EOSC, and will **co-develop and operate a marketplace** as one entry point to EOSC.

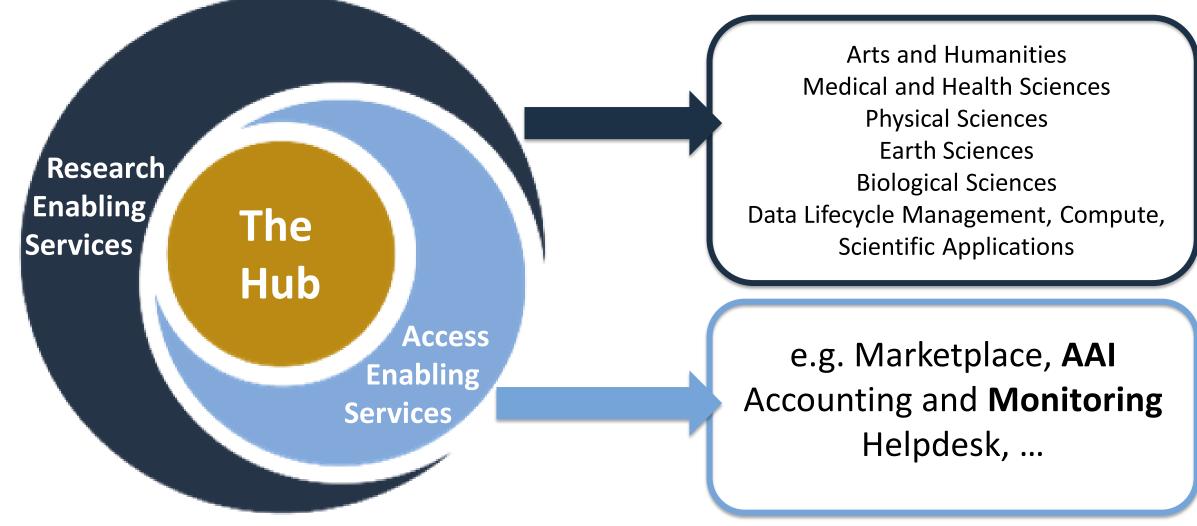
EOSC-hub EOSC-hub contributions to the EOSC roadmap

EOSC strategic actions 3/3

Rules of Participation

Collaborates with partners and external projects/initiatives to **establish and maintain a corpus of policies** that is attractive and provides value for both service providers and service users.

EOSC-hub EOSC-hub Service catalogue



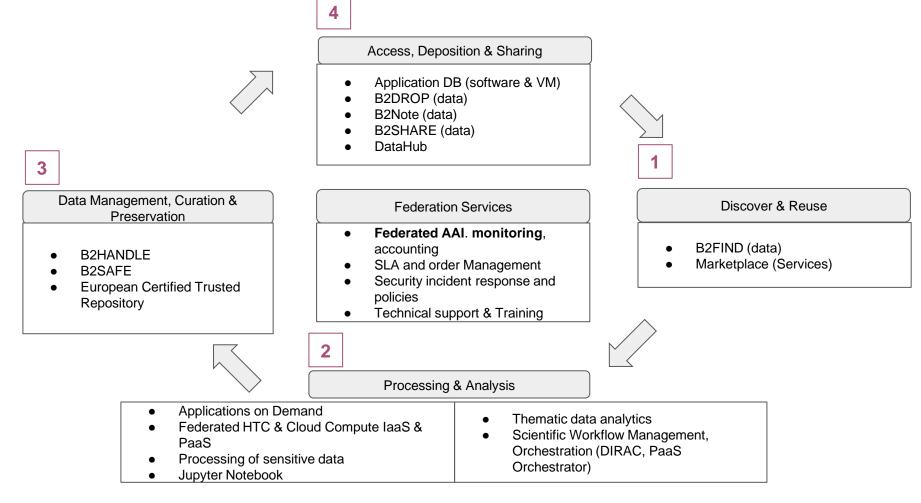
https://www.eosc-hub.eu/catalogue/



- The set of **customer-facing services** that are offered by the EOSC Hub
- - The set of **supporting services** needed to operate the EOSC Hub



• Another view on the services based on the Research Data Lifecycle



EOSC-hub EOSC-hub (External) Service Portfolio - areas

Compute	
EGI High-Throughput Compute	
EGI Cloud Compute	
EGI Cloud Container Compute	
	B2
Platforms	
EGI Workload Manager	
IM (Infrastructure Manager)	
PaaS Orchestrator	
Identity & Security	
EGI Check-in	
B2Access	
IAM	

Data Management & Storage	
B2Handle	
B2Find	
B2Drop	
B2Safe	
B2Stage	
CVMFS	
EGI Datahub	
EGI Online Storage	
eTDR	
Sensitive Data Service	

Thematic Services
ECAS
DARIAH Science Gateway
OOPENCoastIS
GEOSS
EO Pillar
WeNMR Suite
DODAS
LifeWatch Services
CMI

Professional Services

FitSM Training

Data Management Planning

Research Data

(developing)

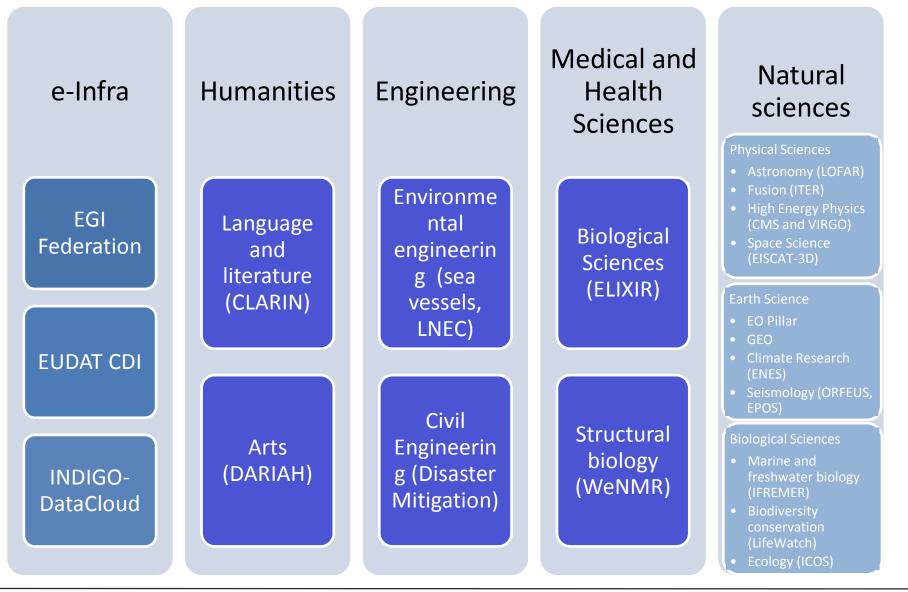
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Aggregators

Applications Database

Repository of Validated Software

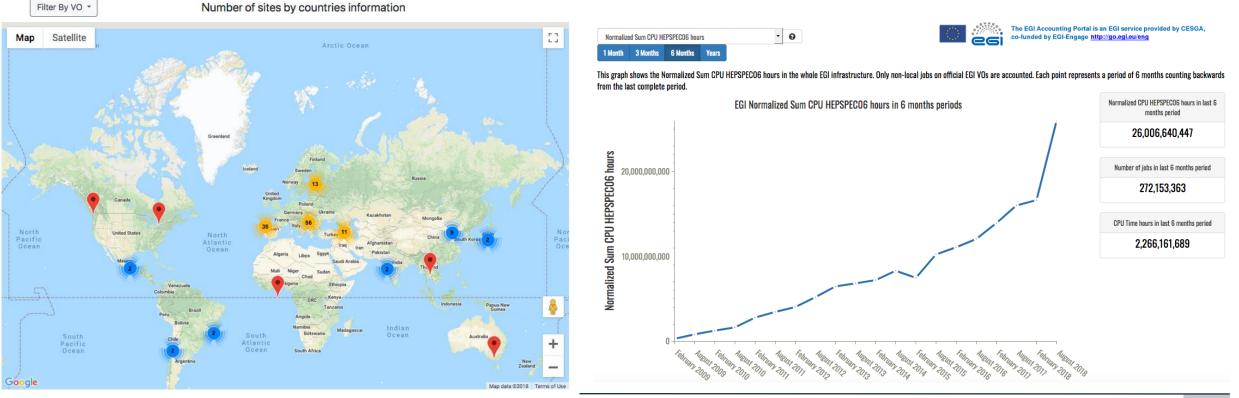
EOSC-hub Services by area





970,600 computing cores; 356 PB disk & 380 PB tape storage

666 open research publications from Jan 2018 (OpenAIRE stats)



5/11/18

EaPEC Conference 2018

EOSC-hub EOSC-hub Data Platform: EUDAT CDI

- 10K records deposited in B2SHARE
- 1PB / 80M registered objects
- 13 community repositories integrated into the CDI
- 630K records in B2FIND
- EUDAT Ltd. formally established to operate on a nonprofit making basis as the voice of European organisations working together as part of the EUDAT CDI
- Over 20 major European research organisations, data and computing centres currently part of the EUDAT CDI



50 Communities using EUDAT services





EOSC-hub Marketplace http://marketplace.eosc-hub.eu/



COMPUTE DATA & STORAGE

RAGE PLATFORMS THEMATIC SERVICES

IDENTITY & SECURITY P

PROFESSIONAL SERVICES

CART 1 Product





A platform where services can be:

- Promoted
- Discovered
- Ordered
- Accessed

3-steps process for users

- Authentication & registration
- Product discovery and specification
- Ordering and request processing



- Core Services
 - Argo Service Monitoring
 - Argo Messaging Service
 - Agora (Service Portfolio Management Tool)
 - Check-in (AAI)
- Common Services
 - EGI FedCloud
 - B2Safe
 - B2handle
- Thematic Services
 - EO-Pilar



• EOSC-hub started in Jan 2018 with an initial set of service selected

- Thematic services were selected via an open call mechanism
- Most of these services are already available for use
- The EOSC Portal will be launched November 23rd
 - The EOSC-hub marketplace will be unveiled as one of the underpinning components

Thank you for your attention!

Questions?







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