





EOSC-Hub: An Implementation of of the EOSC Vision

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CSC - IT Center for Science Ltd.





EOSC-hub mission

- Implement and operate the EOSC service access/delivery channels, aggregating demand from researchers/innovators and other user communities and services from local/national/regional service providers, through the EOSC-hub
- Define the rules of engagement of the EOSC-hub, in collaboration with EOSCpilot, and a service procurement framework
- Operate/integrate/advance an initial set of services of the EOSC
 - Baseline and specialized compute/data services -EGI/EUDAT CDI
 - Thematic services RIs and research communities
 - Collaborative services sharing of software,
 applications and other research objects EGI/EUDAT (CDI) partners
 - Federation services to enable cross-border access and service delivery

EOSC-hub in numbers

Duration: 36 months

Start date: 1 Jan 2018

End date: 31 Dec 2020

Tot. funding: 30 Million

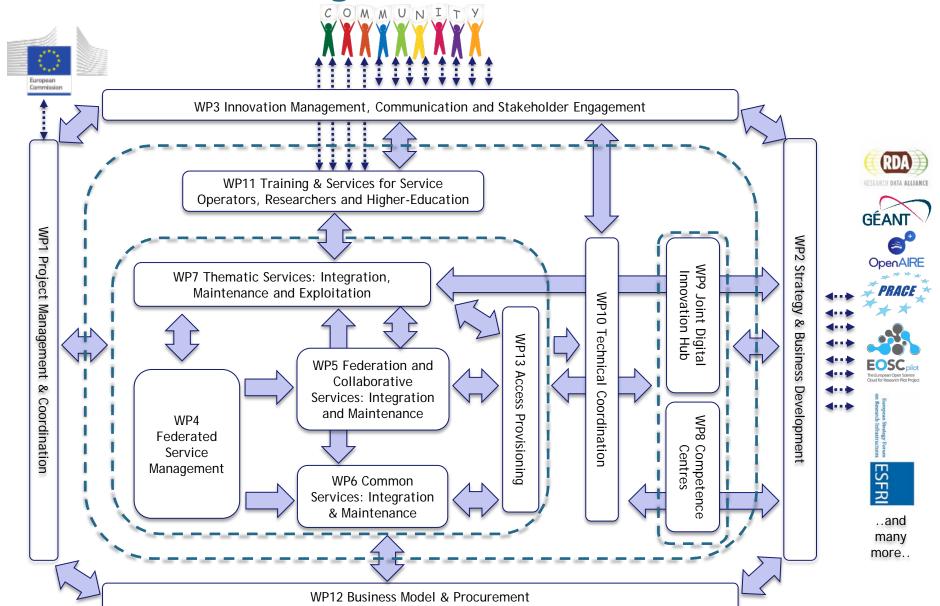
partners: 74

Countries involved: 23

10/4/2017

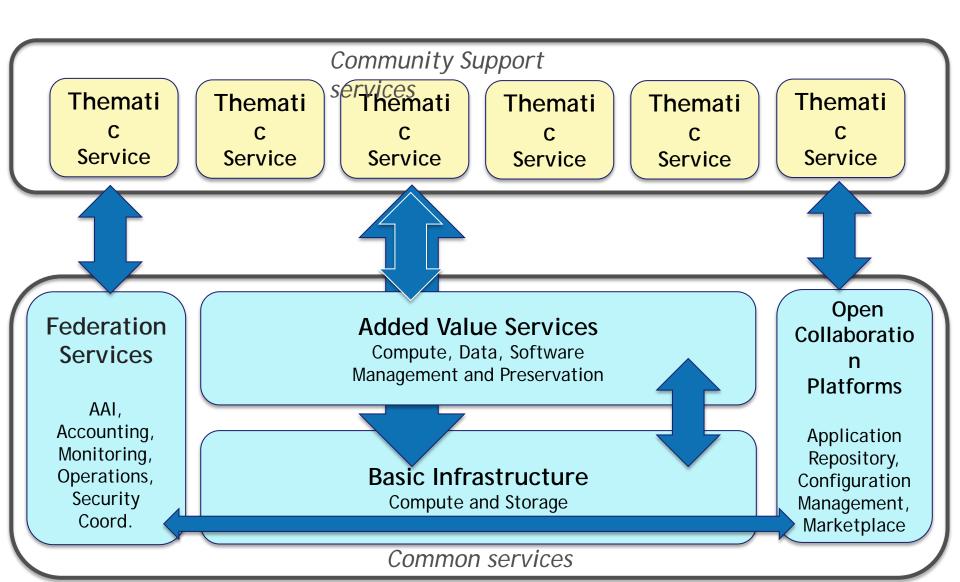


EOSC-hub at a glance





EOSC – Service Architecture



EUDAT CSI INDIGO - DataCloud

How we engage Research Communities

(A) Thematic Service Providers

Research Community as providers of communityspecific services for the project service catalogue.

Role: SERVICE PROVIDER

Activities: Integrate in

catalogue, Train, Exploit

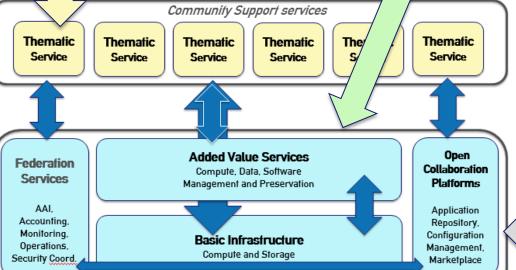
(B) Early Adopters

Research Community as consumer of common e-Infrastructure services

Role: USER

Activities: technical support,

co-design, pilot use



Common services

(C) Customers

Research Community as existing/prospective consumers of the service in the catalogue

Role: CUSTOMER

Activities: credit allocation,

technical support, exploit



Thematic services, Competence Centers, and Business Pilots



- Open Calls at proposal preparation stage
 - 65 Thematic service proposals
 - 48 Competence Centre proposals
 - 31 Business pilots

- Participants
 - ESFRI RIs
 - Virtual Research Communities
 - International research collaboration
 - Industry/SMEs





Research infrastructures &

Communities Thematic service providers

- CMS, astronomy/astro-particle physics
- Climate change/ENES
- GEO/Global Earth Observation System of Systems
- Costal protection/LNEC
- Structural biology/WeNMR
- Earth Observation core data resources/ESA, Copernicus sentinel data, LANDSAT and other major EO data archives
- Biodiversity / Lifewatch,



- Marine research/Euro-Argo
- LOFAR
- EuroFusion/ITER
- EPOS/EIDA seismic data and computational seismology services
- EISCAT-3D
- ELIXIR/BBMRI/ECRIN
- DARIAH
- ICOS







EUROfusion













Who is behind EOSC-hub?

Austria BBMRI-FRIC

EEA **EODC**

Belgium

ULG **VUB**

Croatia SRCE

Czech Republic **CESNET**

Denmark

DEIK (DTU)

MU

Finland CSC

France

CEA CINES

CNRS

ECRIN

eSDF **IFREMER**

Germany

DKRZ

EMBL-EBI

GFZ **GWDG**

JUELICH

KIT

MPG

RASDAMAN

Greece

GRNET IASA

NOA

Hungary MTA-S7TAKI

Italy

INFN

CINECA

CIRMMP CMCC

CNR

INGV

MEEO

Moxoff

TERRADUE

Yottacle

Ireland SUITE5

Netherlands

EGI

ASTRON

CLARIN

GEANT

MARIS

SURFsara

Norway

SIGMA2

Poland

ACK Cyfronet CloudFerro

IDEGO

KOMA Nord

PSNC

Portugal

ACTION MODULERS

LIP LNEC Slovakia IISAS

Switzerland

CERN

Slovenia

Sinergise

Spain

AIDIMMF

BSC **CSIC**

Ecohydros

Hidronay

UNICAN (UC)

USE

Sweden

EISCAT SNIC (UU) **United Kingdom**

CCFE (UKAEA) **EPCC (UEDIN)**

F6S

JISC

STFC

TRUST-IT

UCL

Taiwan

AS (ASGC)