



Results and Future Outlook

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EOSC-hub Week 2019, Prague



eosc-hub.eu

Dissemination level: Public



@EOSC_eu



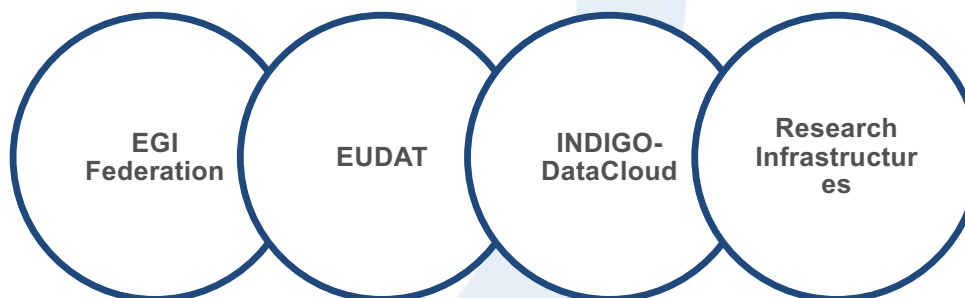
EOSC-hub receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 777536.



EOSC-hub

Mission

*Integrate and offer **services, software and data** for advanced data-driven research and innovation by mobilizing major providers of pan-European relevance .*



Competence Centre

Usage experience with common services and guidelines; requirements collection

Service integration, training, documentation and best practices

Best practices on Open Science, IM / Service Management / IT Security / DM trainings, etc.

The Hub

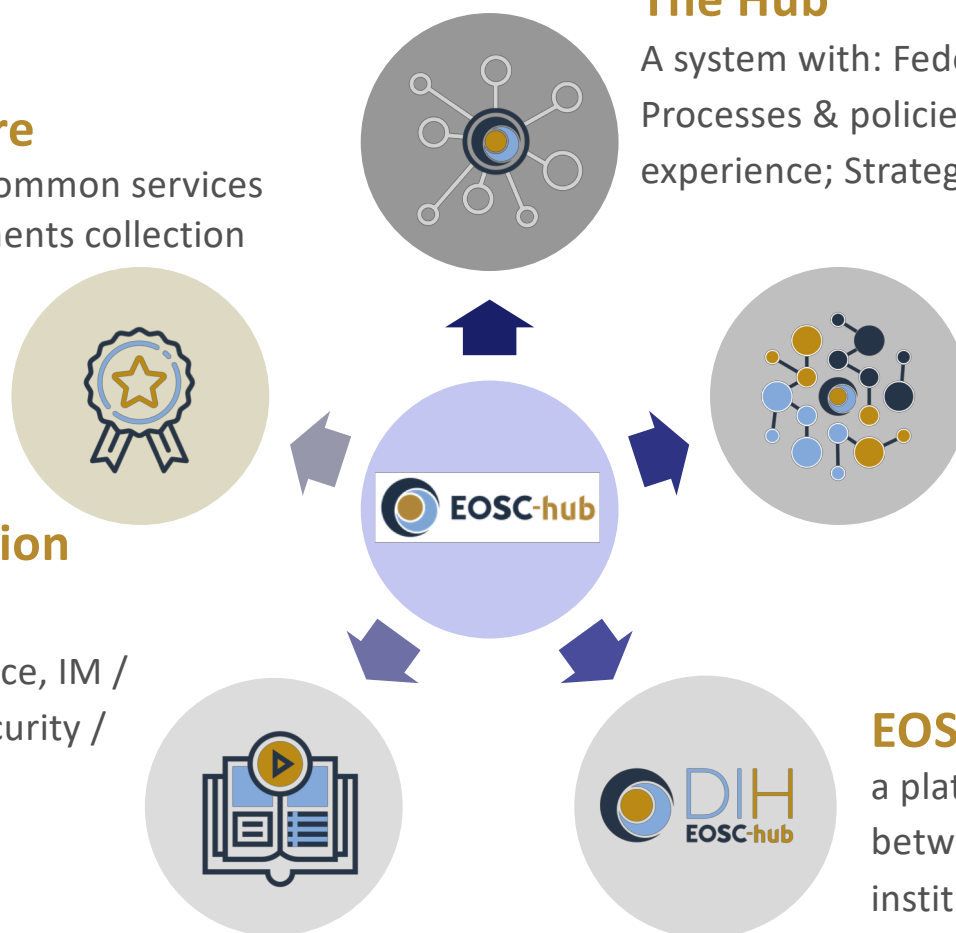
A system with: Federation & collaboration services; Processes & policies; Business models & procurement experience; Strategy & Technical Service Roadmap, etc.

EOSC Service Portfolio

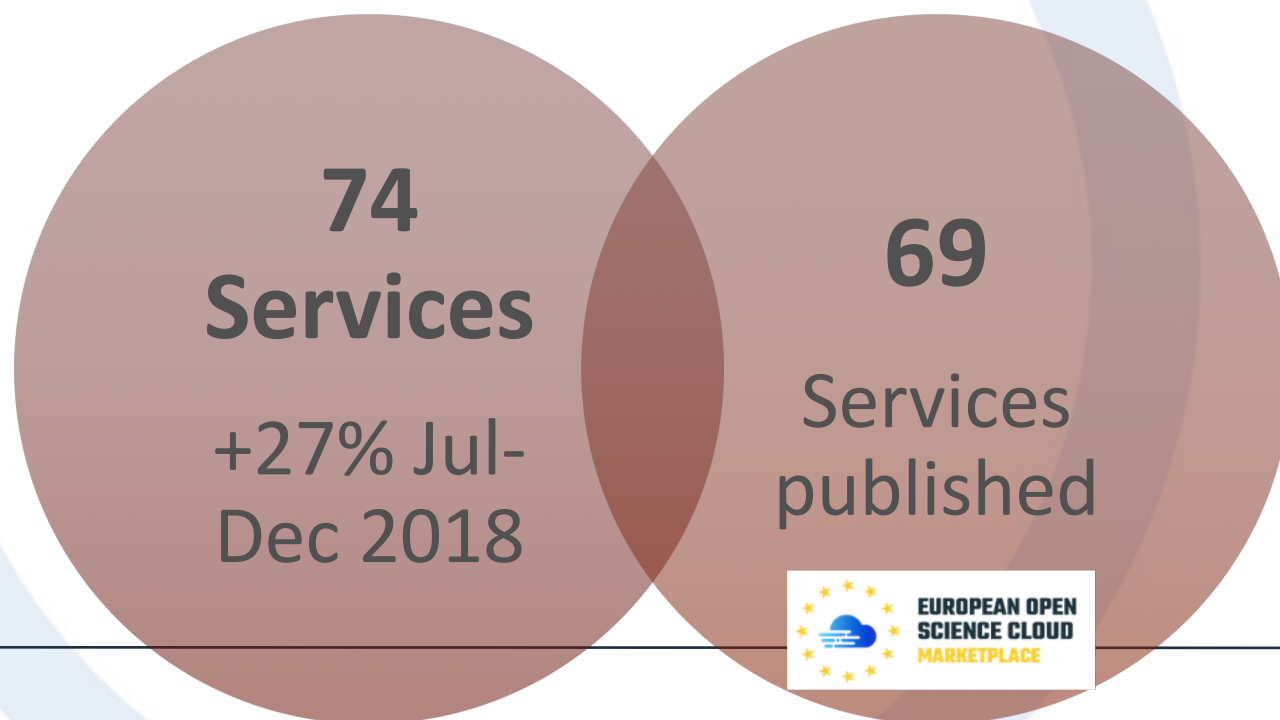
Common & Thematic services; Business models for individual services; Rules for participation, etc.; Marketplace and EOSC Portal

EOSC Digital Innovation Hub

a platform that facilitates engagement between private industry and public institutions participating in the EOSC.

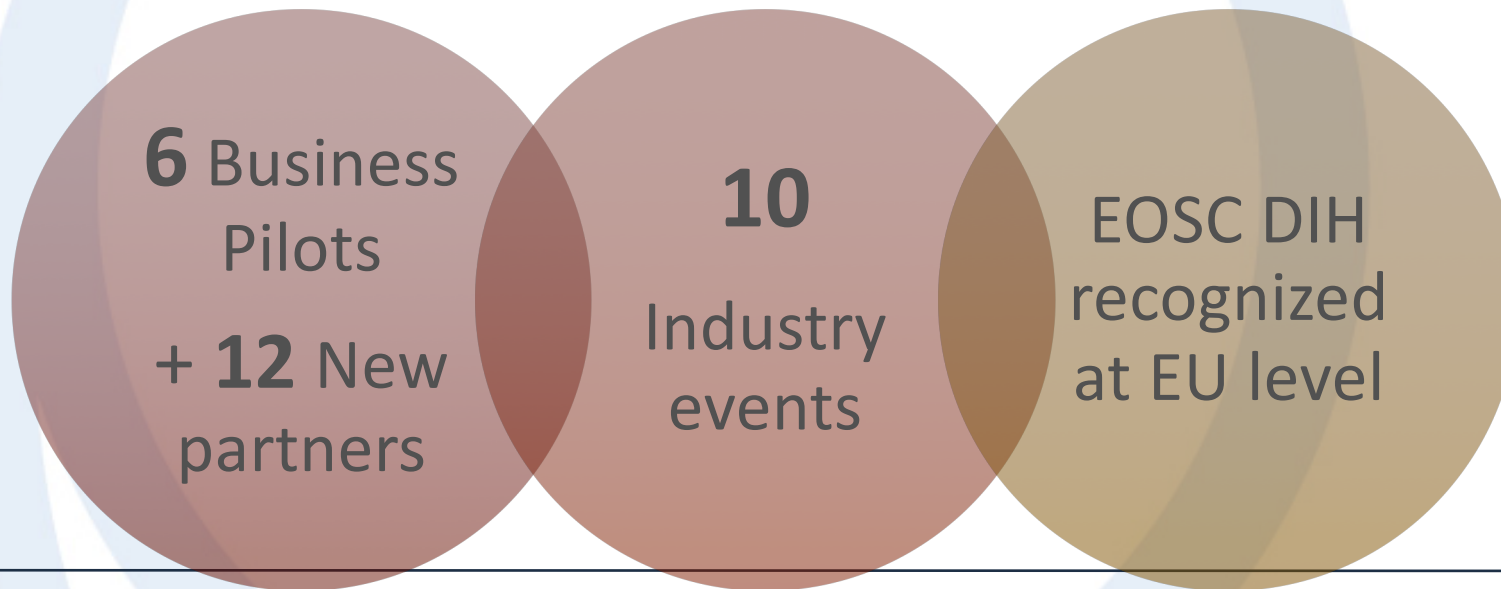


Transnational access to services and research outputs



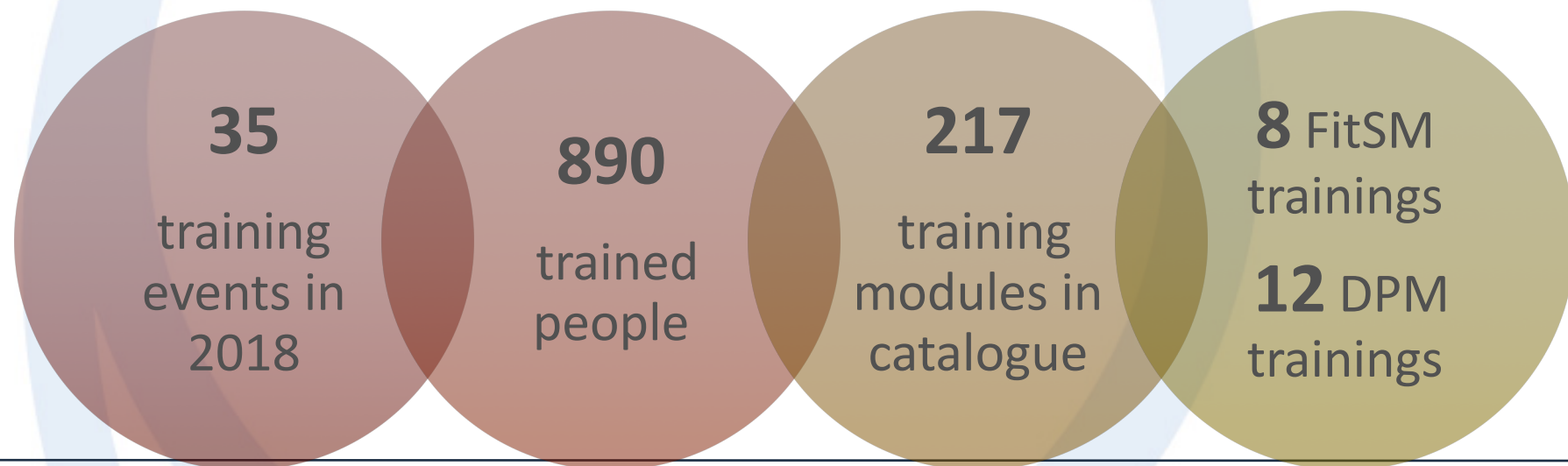


Partnerships with Industry and SMEs





More people trained in research and academic sectors





Increase interoperability with integration, open source interfaces, technical guidelines

4 thematic services ported to open interfaces

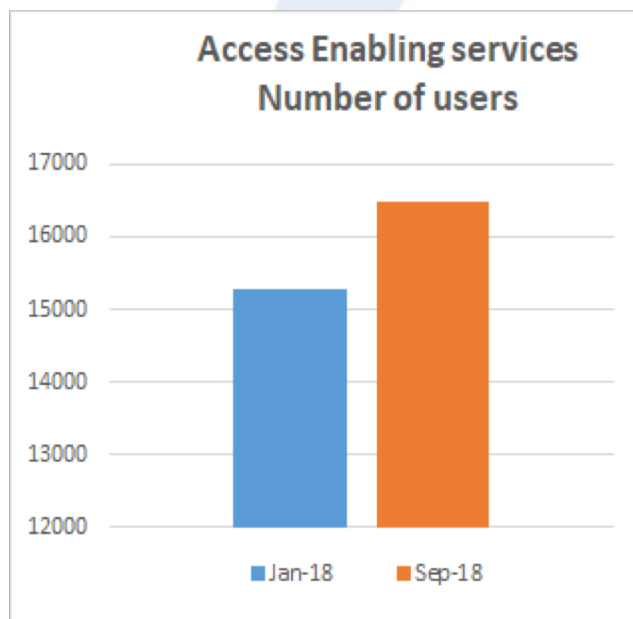
46 user technical requirements

Contributions to **3** standard bodies & open source projects

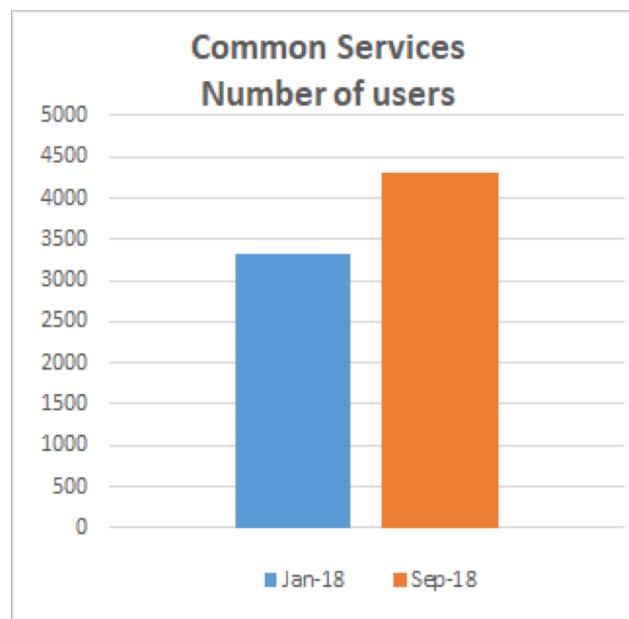
Contributions to **4 RDA WGs**

Expand the user base

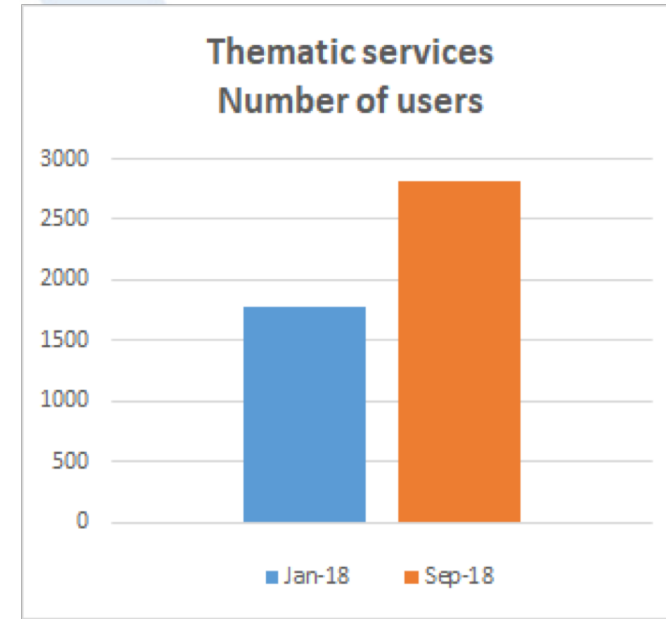
(Jan-Sep 2018)



+ 1200 new users



+ 1000 new users



+ 3200 new users

“Our online services are used by thousands of researchers studying molecular forces and biomolecular interactions to guide drug design, treatments and diagnostics.”

A. Bonvin, Professor of Computational Structural Biology, Utrecht University

*HADDOCK: > **11500 registered users** worldwide, **350 papers** (2017-2018)*

EOSC benefit

Offer large compute capacity hiding the complexity of the computing resources used to power the services



**2273 new
users
(+30%)**

**126%
simulations
submitted**

“More than 500.000 humanities and social sciences researchers in Europe need automated and high-quality analysis of language data”

Franciska de Jong, CLARIN ERIC Executive Director

EOSC Benefit

Provide generic data management services supporting **language-specific tools** that turn linguistic content into a directly usable data source (*e.g. the CLARIN Virtual Language Observatory & Switchboard*)



*Find
language
data within
seconds via
EOSC*

Results
discoverable,
easy to
**access & re-
usable via
B2FIND/B2SH
ARE**

Offer a rich set of ready to use EO data processing services for the analysis and monitoring of earthquake, volcanoes and landslides.

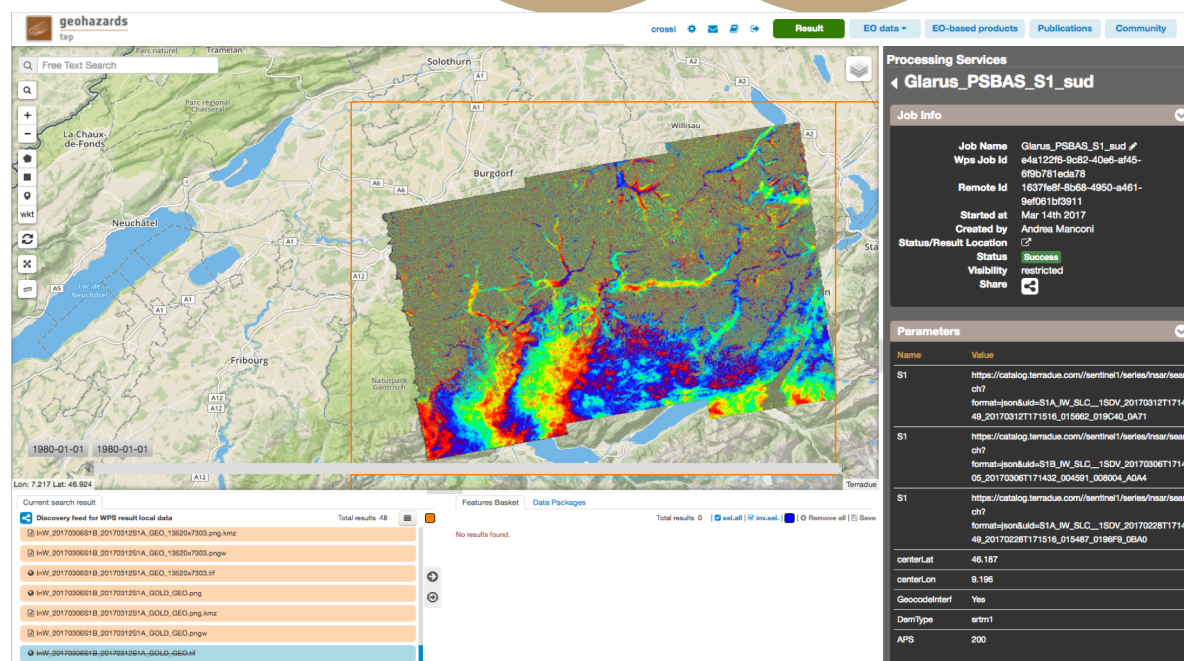
EOSC Benefit

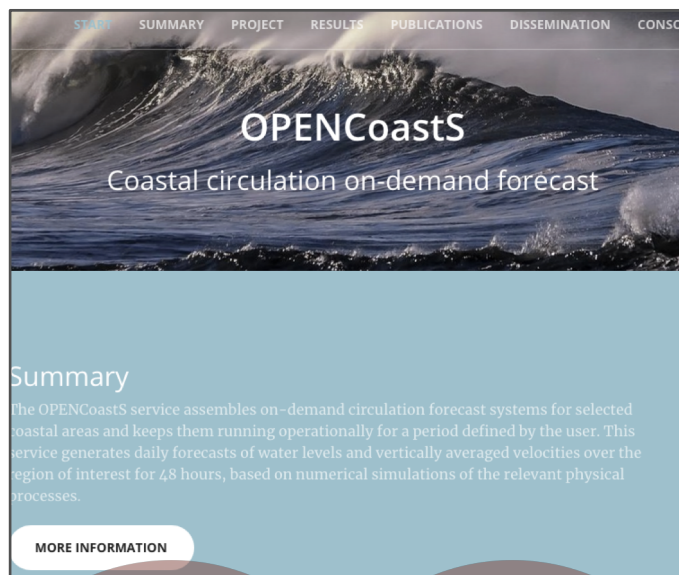
Provide **interoperability guidelines** to run EO processing algorithms on a hybrid cloud

➔ GEP is integrated with the EGI fed cloud and is now in the Marketplace

> 1.4
Million
CPU
hours on
Cloud

+19%
Annual
increase
(2018)





OpenCoastS: an innovative and free platform to generate coastal circulation on-demand forecasts

EOSC Benefit

Open national platforms for international exploitation

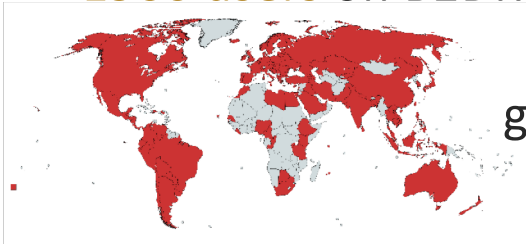
**+58% cloud
utilization
QR4 2018**

**14
countries
and 148
people in
the training**

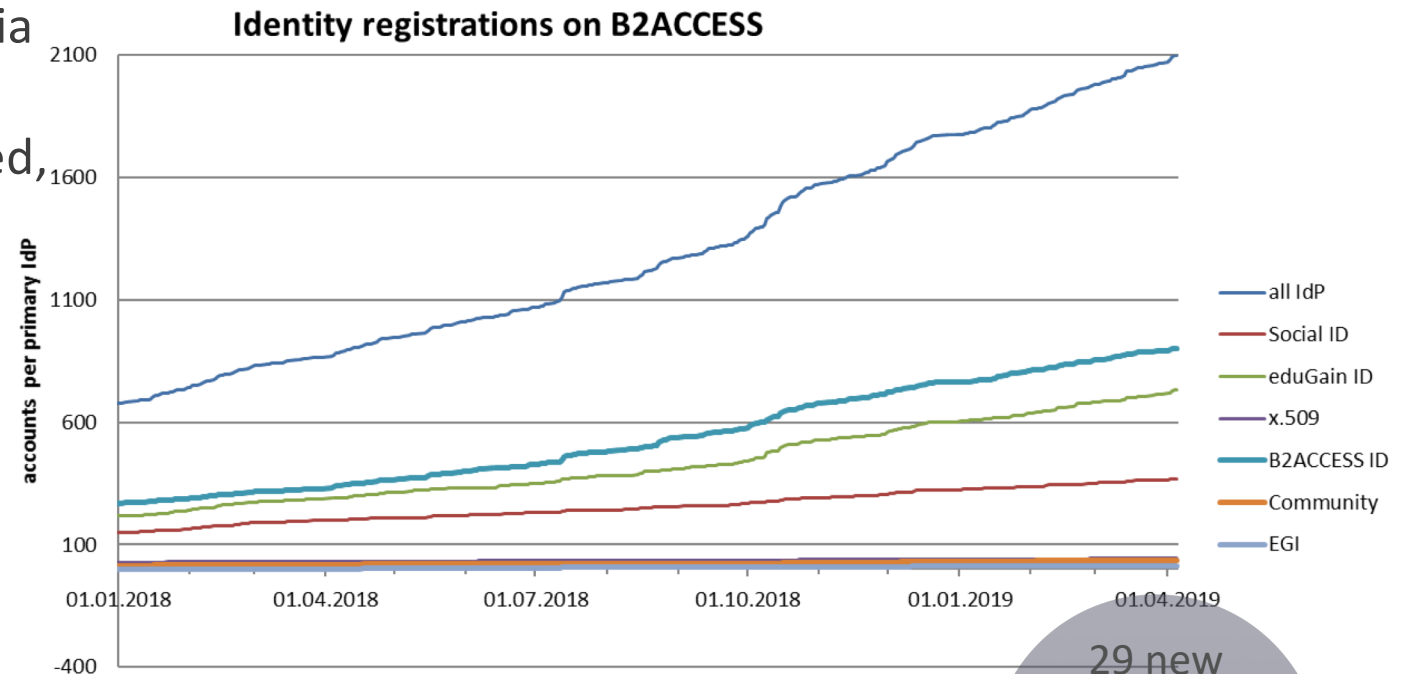
148 participants to the e-Tutorial 13/12/2018 “e-Tutorial: from processes knowledge to on-demand circulation forecasts”

Success Stories – An increase in the usage of data management services with EUDAT

- Over 780K data discoverable via the EUDAT CDI (repositories from 19 communities harvested, ~10k data sets B2SHARE@CSC and B2SHARE@JUELICH)
- 100M (+10%/3mon) data objs (1.6PB) registered within CDI
- 2100 users registered on B2ACCESS (+25%/3mon)
- 1900 users on B2DROP

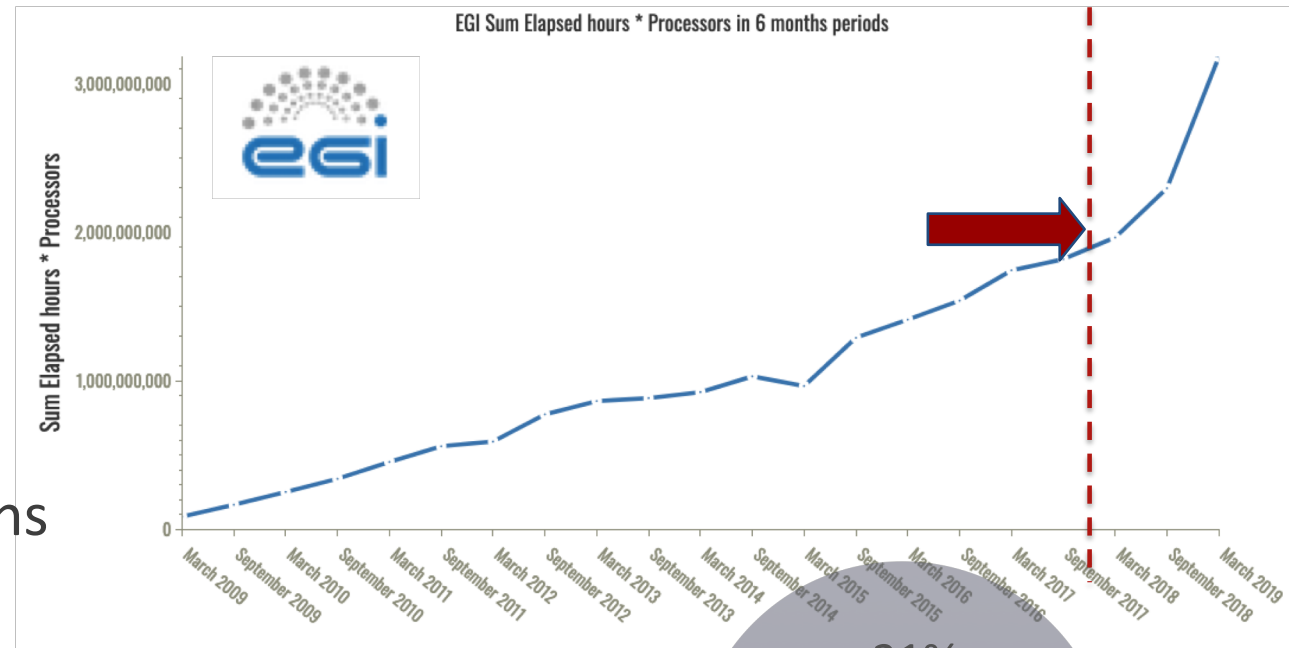


globally



29 new
active
projects
since
3/2018

- 4.4 Billion CPU hours (HTC)
- > 23 Million CPU hours (Cloud), +18% Q1 2019
- > 1 Million computing cores
- > 730 PB storage
- 1700 open access publications
- 31 large scale ESFRI projects/landmarks supported



+21%
utilization
of
computing
in 2018



- **Further improve and exploit** results in collaboration with EOSC stakeholders, the governance boards and the implementation projects
 - New collaborations: OCRE, ESFRI clusters, EOSC national initiatives, FAIRsFAIR, FREYA etc.
- **Engage** with EOSC providers and users



A new initiative is launched today!

The EOSC Early Adopter Programme

- Provide **expertise and resources** to researchers to become active users of the EOSC
 - Gain insight into **user needs** and EOSC use cases.
 - Foster a culture of **co-operation** between researchers and EOSC providers
-

- Call for research projects whose activities have **complex digital needs** involving multiple, different technologies, and benefiting from access to state-of-the-art technologies, **research infrastructures and services that are not available in their current research environment.**
- The programme leverages the capabilities and expertise of:
 - EOSC-hub service providers
 - GEANT, OpenAIRE, OCRE (from July 2019)
 - and is open to additional partners

<https://www.eosc-hub.eu/eosc-early-adopter-programme>

CALL 1	
Deadline	15/06/2019
Notification by	30/09/2019
Start of collaboration	01/11/2019



The screenshot shows the EOSC-hub website header with the logo and navigation links: SERVICES, COMMUNITIES, and RESOURCES. Below the header is a 'Home' link. The main heading is 'The EOSC Early Adopter Programme'. The text states: 'The EOSC Early Adopter Programme is now OPEN. We invite researchers to apply now to take advantage of the b...'. It further explains that the programme is oriented to communities with complex digital needs and that EOSC offers a broad spectrum of services. A list of purposes is provided: 'Provide expertise and resources to researchers to become active users of the EOSC.', 'Gain insight into user needs and EOSC use cases.', 'Foster a culture of co-operation between researchers and EOSC providers.', 'Improve in quality and quantity, the offer of EOSC', and 'Foster confidence in the capability and capacity of the EOSC.'. The final sentence states: 'The ultimate goal of the programme is to gain insight into researchers' needs and with their participation drive the future d...'

Thank you for your attention!

Questions?



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