

Status of the EGI-ACE Open call for use cases

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7 September 2022 EGI Community Managers meeting

Dissemination level: label



- Overview of the EGI-ACE Open call
- The user support pipeline
- Success stories
- Statistics
- Opportunities to collaborate Discussion
 - Your input is needed!



The EGI-ACE Call for use cases - overview

https://www.egi.eu/egi-ace-open-call/

Objectives

- Offers access to the EOSC Compute Platform
- · Provide dedicated consultancy, user support and training
- Increase the EOSC Thematic Service / Data Spaces portfolio

Who should apply

- Individual Researchers
- Projects & Research Infrastructures
- Research Communities

Marketing campaign

- Sent ~150 emails
 - H2020 Projects working on cloud, AI/ML and Big Data ESFRI RIs and clusters

<u>Timeline</u>

Next cut-off date: <u>15th. of October 2022</u>

Submit your application now



The user support pipeline

https://www.egi.eu/egi-ace-open-call/



Establish Competence Centres

• Use-case specific support groups consisting of service and resource providers, technical experts and other interested parties providing assistance for a Use Case.



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- Launched in April, 2021
 - 9 round of selection
 - 40 Applications received [*]
 - 37 Applications selected for support [**]
- ~25 applications already integrating with the EOSC Compute Platform
- 3 new Thematic Services:
 - AiiDAlab (CH), MOBIS (NL), OpenBioMaps (HU)
- 1 new software on-boarded in EOSC (in progress):
 - BioISI (PT)
- 20 Shepherds from 7 organizations involved:
 - EGI Foundation (11), UPV (2), IFCA (1), INFN (3), CNRS (1), CESNET (1), CMCC (1)
 - [*] including no.1 request for support (Serbia)
- [**] APPROVED, IN PROGRESS, NATIONAL FUNDING



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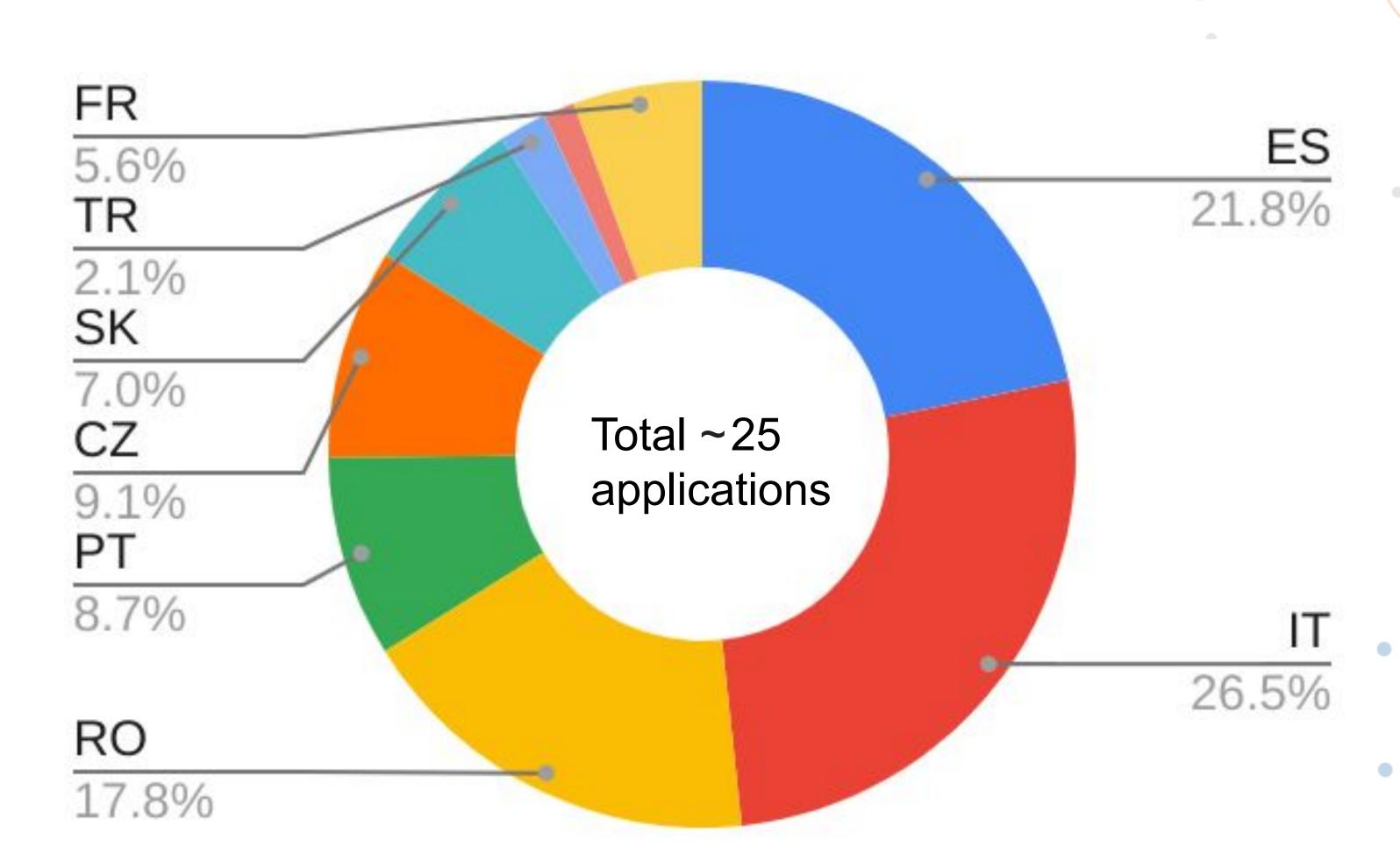
- 11 (resource) providers involved in the support
 - UPV-GRyCAP, IFCA-LCG2 and CESGA (ES),
 - INFN-CLOUD-BARI and INFN-CLOUD-CNAF (IT),
 - TR-FC1-ULABIM (TR), CLOUDIFIN (RO),
 - IN2P3-IRES (FR), SCAI (DE),
 - IISAS (SK) and NCG-INGRID-PT (PT)
- 7 (service) providers involved in the support
 - IM (UPV, ES), DataHub (CYFRONET, PL), DODAS (INFN, IT),
 - DEEPaaS Training facility (IFCA-LCG2, ES),
 - Cloud/Container/High-Throughput Compute, Online Storage, AAI Check-in, Notebooks (EGI, NL),
 - PaaS Orchestrator (INFN, IT),
 - ENES Data Space (CMCC/IPSL, IT/FR)



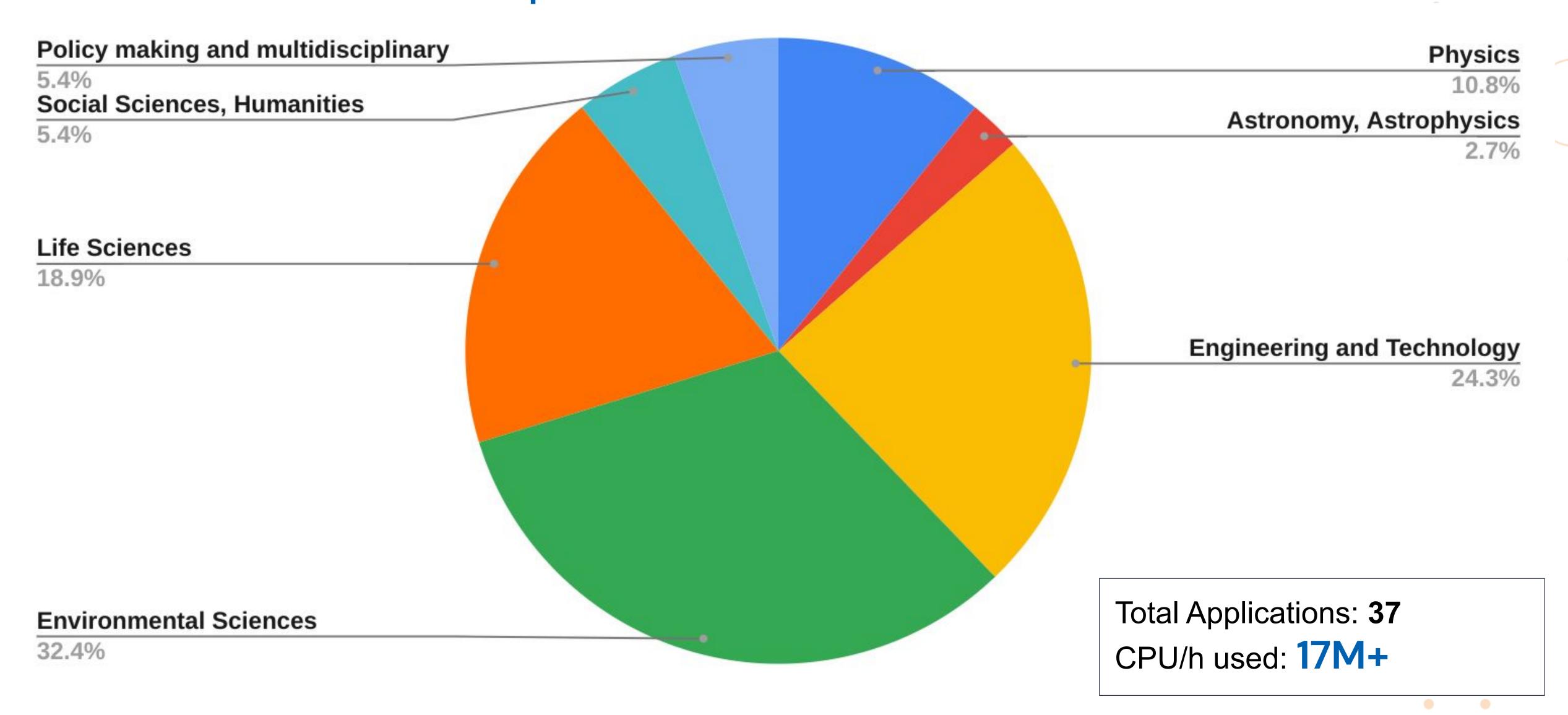
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• 17M+ million of CPU/h consumed (M21)

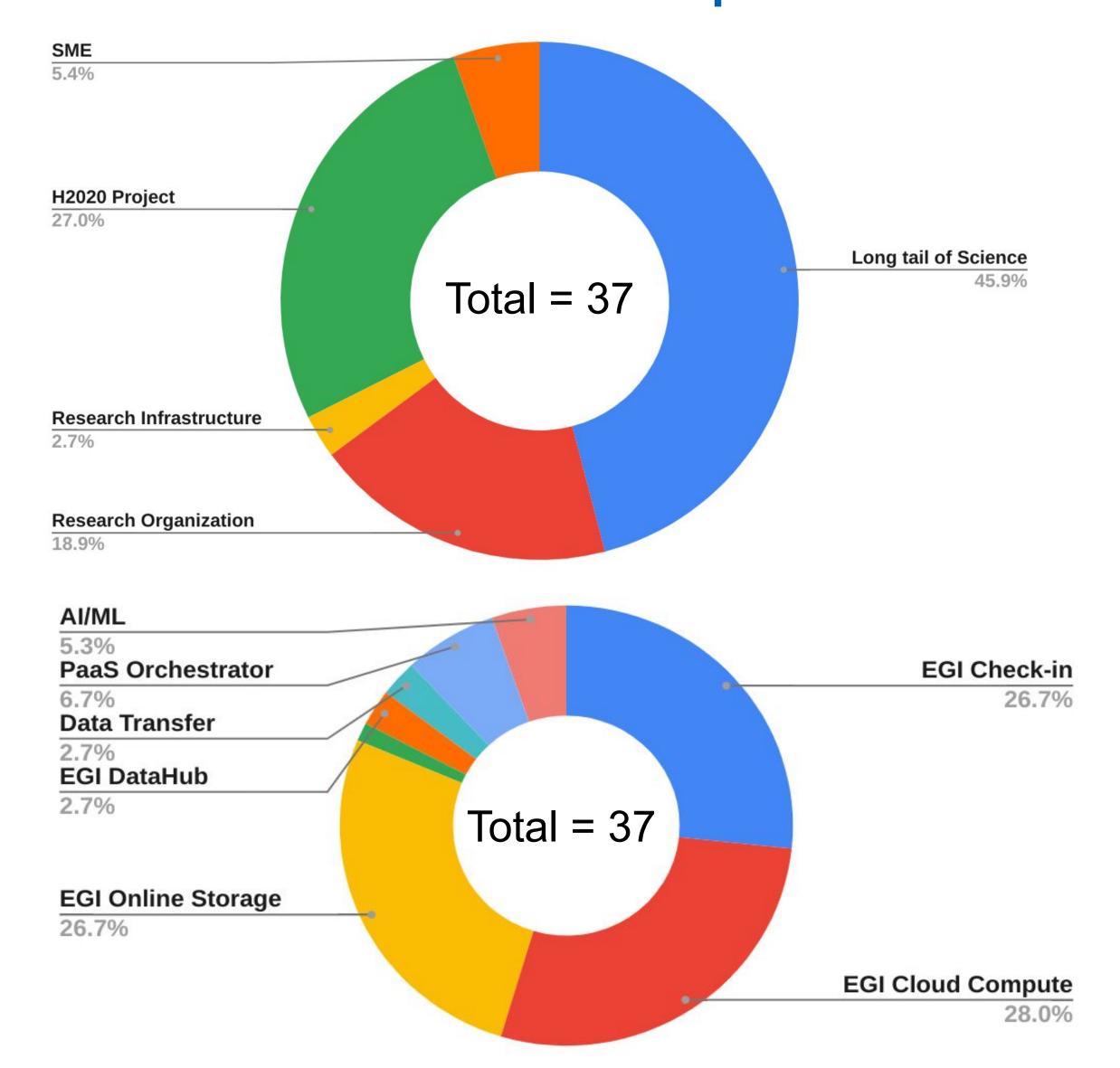
- IT (5 use cases): 4,281,642
- ES (8 use cases): 3,527,374
- RO (2 use cases): 2,881,757
- CZ (4 use cases): 1,473,408
- PT (1 use case): 1,406,899
- SK (1 use case): 1,136,413
- FR (1 use case): 906,116
- TR (2 use case): 334,686
- DE (2 use case): 214,826
- vo.access.egi.eu: 3,043,702
 - o (DE, FR, ES, IT, SK, TR)











Entities distribution

Entities (RI, Research Organization, SME, H2020 projects, etc.) supported by the EGI-ACE project

Services demand

Distribution of the services type requested by the selected use cases applications

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A MOBIS user measuring air quality near Brasov (Romania)

The proposed solution is called MOBIS (Mobile Observation

Integration Service) and it provides a service that makes it

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The Mobile OBservation Integration Service (MOBIS) service to report environmental and biodiversity observations.







Currently there are thousands of citizen science apps easier to gather all kinds of data, and keep them open. MOBIS constituting a fragmented ecosystem. Each app comes collects and processes data from different mobile observatories

indeed with its own login system and with a separate database (most of them via smartphones with or without sensors). It can accessible to specific groups of researchers. Most of these apps be used as a back end service for (citizen-) science apps with a are still listed in app stores, but are actually abandoned, since single login. MOBIS is openly available to researchers & citizens. they were created only for the purpose of a project. Beyond The final aim is for MOBIS to become a large repository for

all concerns coming from these apps being unsustainable, it citizen science data, including environmental and bio diversity

This EOSC in practice story targets three main types of users: (1) the citizen and citizen scientists who collect valuable data, (2)

the **researchers** who use and benefit from the data collected by citizens via smartphones and sensors, and (3) software

The Challenge

Impact:

- MOBIS back-end integrated in the EOSC Compute Platform
- Improved service performance
- On-boarded in EOSC as new service





- 160 vCPU cores, 320 GB RAM and 60 GB of disk per VM
- 580,874 Cloud CPU/h consumed (M19)



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- · AiiDA is a workflow manager for computational science with a strong focus on provenance and performance.
 - It supports a wide range of simulation codes and makes them available for use through the Python programming language
- AiiDAlab lets you run and manage AiiDA-powered workflows through tailored web applications in the browser.
 - Use the App store to pick and install apps from the application registry or write your own in just a few lines of python using jupyter widgets and appmode AiiDAlab

Impact:

- Leverage the ECP to develop a new service for helping theoretical as well as experimental scientists to easily prepare and run simulations through a web browser.
- On-boarded in EOSC as new service





- Devel: 4 vCPU cores, 16 GB RAM
- Staging: 8 vCPU cores, 32 GB RAM
- 746,448 Cloud CPU/h consumed (M21)

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OpenBioMaps is a data management platform for biological data, with a special focus on biodiversity data.

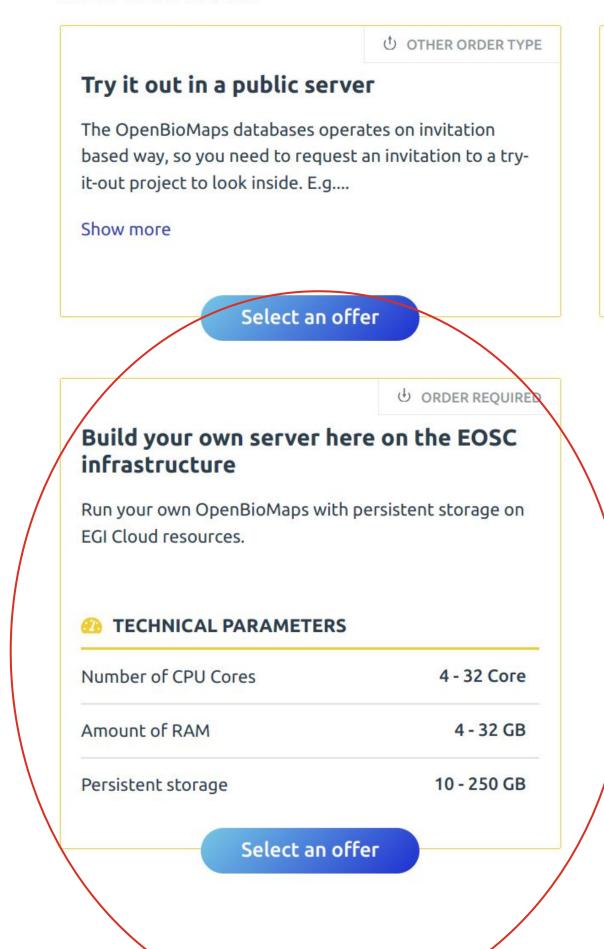
Impact:

- Extend the computational abilities of OBM service network and improve the integration ability of services.
- On-boarded in EOSC as new service



• 160 vCPU cores with 320 GB RAM and 60 GB of disk

Resource offers



Self-hosted OpenBioMaps instance

The most common way for institutions to use their own server.

Follow this tutorial to set up your own server instance in Dockerized environment might be in...

Show more

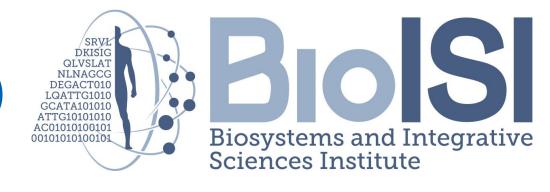
Select an offer





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Protein pK a and isoelectric point calculations (Software)



Impact:

- Establish an easy-to-use cloud service that allows for fast pKa and isoelectric point calculations using user-provided protein structures or those obtained from the Protein Data Bank (PDB).
- On-boarding the new software in EOSC (in progress)



- 116 vCPU cores, 260 GB of RAM, up to 2 TB of block storage
- 1,522,347 Cloud CPU/h consumed (M21)



Opportunities to collaborate - Discussion

- Contribute as resource/service providers
- **Support** the integration plans of the selected use cases in the EOSC Compute Platform (shepherding activities)
 - Handbook for the EGI-ACE shepherds
 - EGI documentation for users/service providers

Actions:

- Send invitations and share the abstracts of the received upcoming use cases (Giuseppe)
- Provide regular updates during the upcoming EGI Community Managers meetings (Giuseppe)
- → PROVIDE YOUR COMMENTS/FEEDBACK



Contact us

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Let's talk. Or meet in person

Get in touch with us

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