EGI-ACE Open Call no.1

Checkpoint meeting with Shepherds

OGC Sensor Things API for Citizen Science (Cos4Cloud project)

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Dissemination level: Public

Disclosing Party:

Recipient Party:

EGI-ACE receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 101017567.

Outline -

- *Background about the scientific use case*
- *Ambition, Impact and Challenges*
- *Integration Support*
- *Capacity Requirements*
- *Timeline*

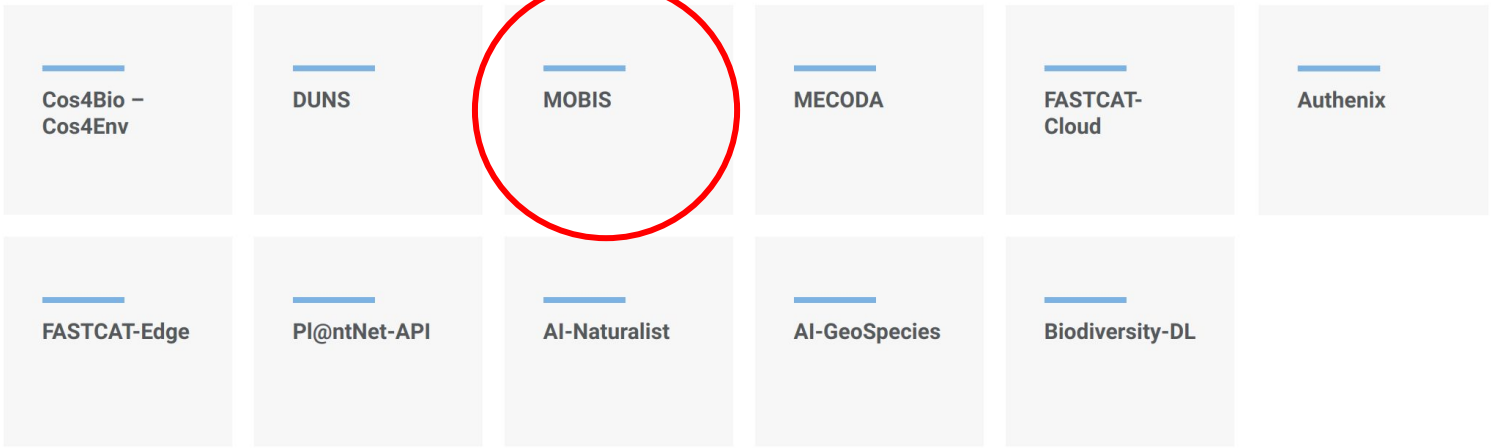
Background about the scientific use case

Co-designed Citizen Observatories Services for the EOSC

- Website: https://cos4cloud-eosc.eu/
- 4 years projects (GA: 863463), started the 1st. Nov. 2019
- Coordinated by: CSIC https://www.csic.es/es (Spain)
- Overall budget: € 5 999 055,75
- Consortium: 15 (IFCA is one of the partner)

Ambition, Impact, Challenge(s)

- Facilitate open science and citizen science initiatives by designing and implementing **new services** to **improve the quantity and the quality of citizen observatories**.
- DL/ML, automatic video recognition, and other cutting-edge technologies will be used to design and prototype the new services



MOBIS

- MOBIS is **COS4CLOUD's Mobile Observation Integration Service**, it collects all kinds of biodiversity and environmental data using smartphones and low cost sensors.
- Presented in the Run4Science initiative: https://run4science.org.
  - This is a showcase how these observations are taken, processed and finally shown on a map.
- The service is already registered in the EOSC Portal

- **TODO:**
  - Schedule a meeting with Sy to discuss long-term sustainability of the MOBIS service (via the EOSC DIH or EGI).

Integration Support

- Support to deploy Kubernetes clusters in EGI via the Infrastructure Managers and scale-up the deployment and testing of the new Cos4Cloud services

Capacity Requirements

- Allocated 8 vCPU core, 32GB RAM and 2 floating IP at IFCA-LCG2
- 100GB of SSD storage + 1TB of block storage
- MODIS testing:
  - 8 v CPU cores with 16GB memory and 100GB storage

Timeline

Current status:

- Registered the cos4cloud-eosc.eu VO in the EGI Operations Portal (GGUS #152888)
- Configured a dedicated group in COManage.
- Created a Docker plugin in the IM.
- Initial capacity allocation configured @ IFCA-LCG2
- SLA https://documents.egi.eu/document/3765
- Progressed in developing a new version of the software.
    - During the next OGC Meeting (December) and the ones after (March ’22, June ’22, etc.) we will present the EGI deployment as proof of concept and announce it for public evaluation.

Thank you!

Contact: **egi-ace-po@mailman.egi.eu**
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EGI Foundation

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