



# OSCAR

Open Science Clusters' Action  
for Research & Society

Funded Project

**HOMEROS**   
**ENVRI**  
Community

## Harmonising Observations from Multi-hazard Environments in Research for Open Science – ENVRI

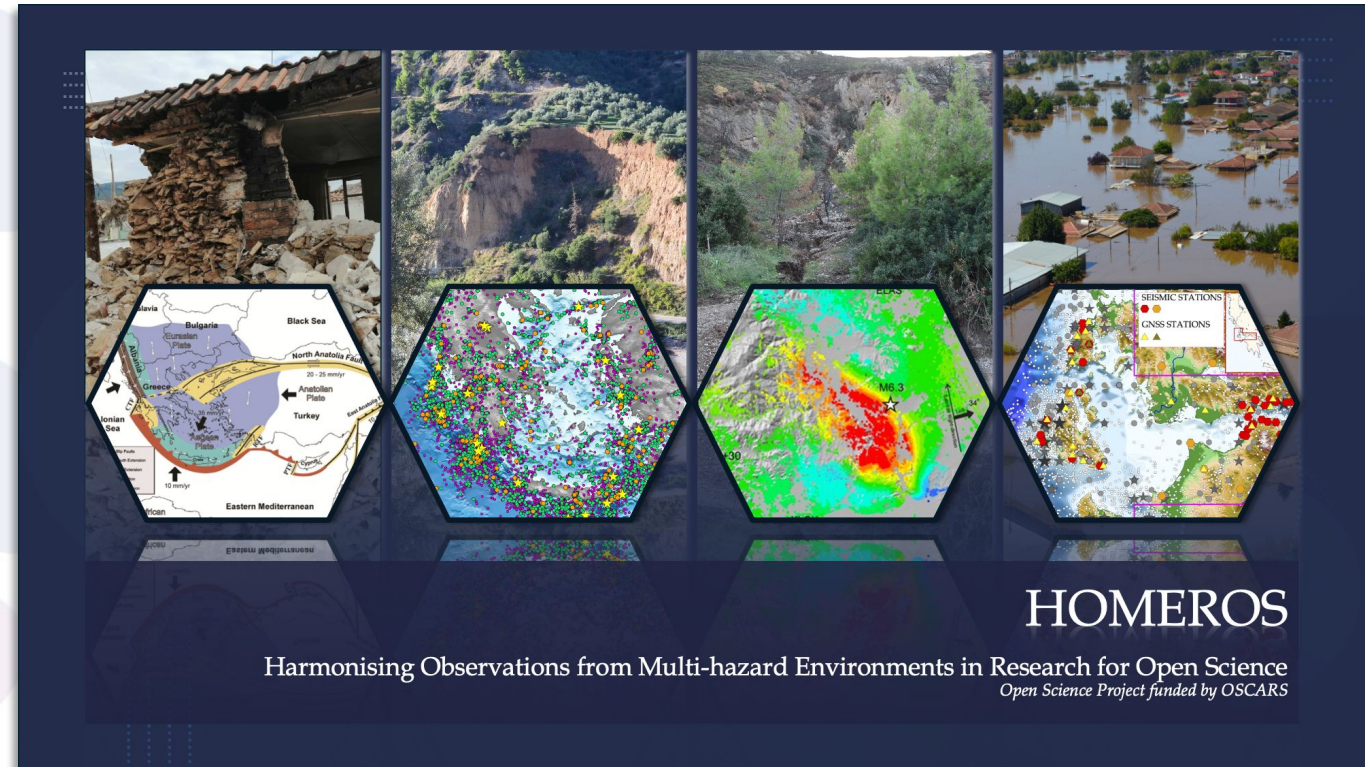
*Expectations and first examples from the EOSC EU Node services for Researchers*

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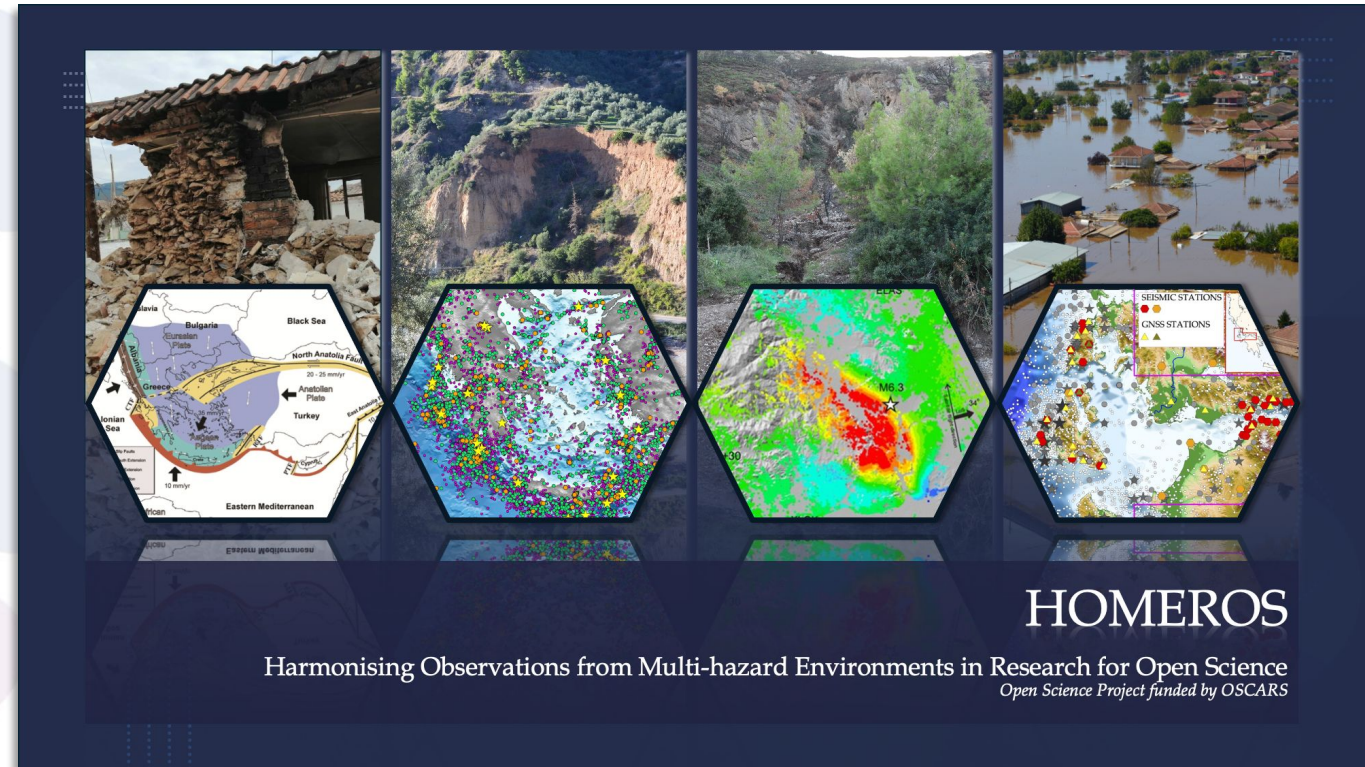
## Geohazard Assessment

- ✓ Focus on high-risk areas in Greece
- ✓ Earthquakes, ground movements, floods, landslides
- ✓ High-quality data gathered by our institutions and Research Infrastructures



## Open Science Goals

- ✓ Make research accessible and collaborative
- ✓ Improve the way we conduct research
- ✓ Openly share FAIR project outputs
- ✓ Enable communities to collaborate



A common workspace

Research groups located at different Universities

Diverse roles in the project, combining scientific background and technical skills

File management, storage and sharing services

Transfer/harvest/share/store datasets from various data sources

Open Science practices and FAIR workflows

Jupyter lab services

Document/Share code in the form of notebooks

Create a collaborative environment for research and teaching

Virtual Machines

For ML and data analysis

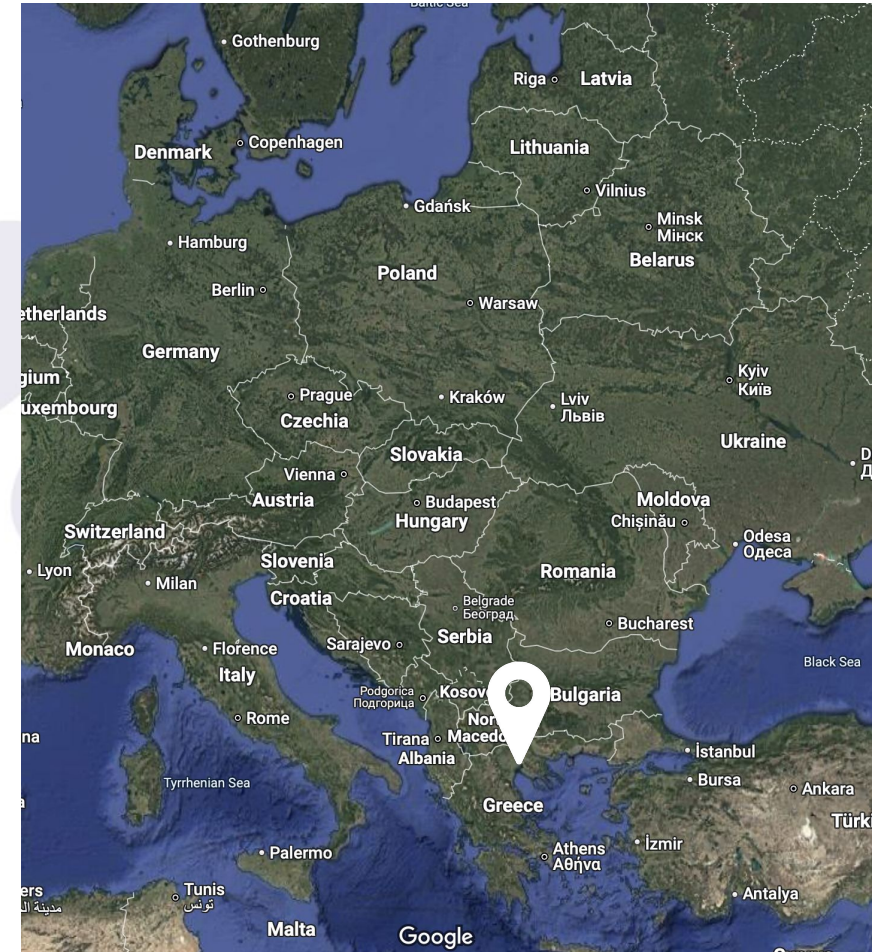
For educational purposes

What do we need from the EOSC EU Node Services?

*(To start with :)*

## Step 1 - Jupyter Lab

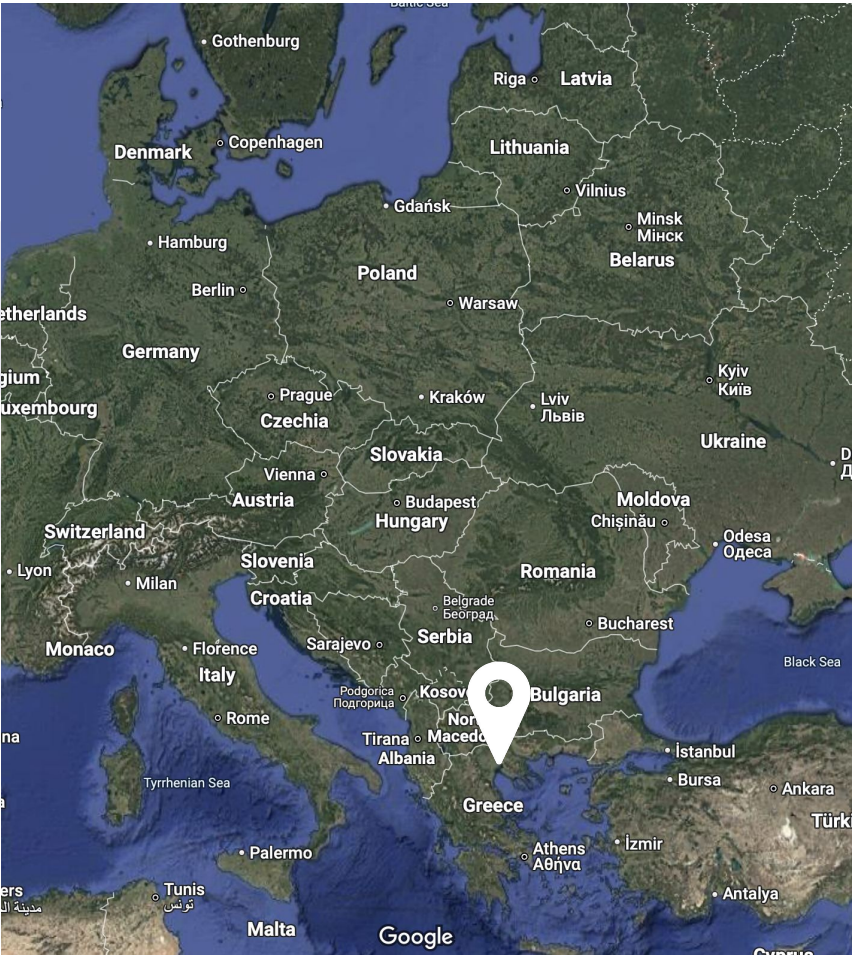
- ✓ Access Interactive Notebooks Service
- ✓ Harvest data from remote database
- ✓ Share results



The screenshot shows the EOOSC dashboard interface. At the top, there is a yellow banner with the text "FOR TESTING PURPOSES ONLY. THIS NOTIFICATION WILL DISAPPEAR ONCE DEPLOYED ON A \*.europa.eu site". The main content area is divided into several sections:

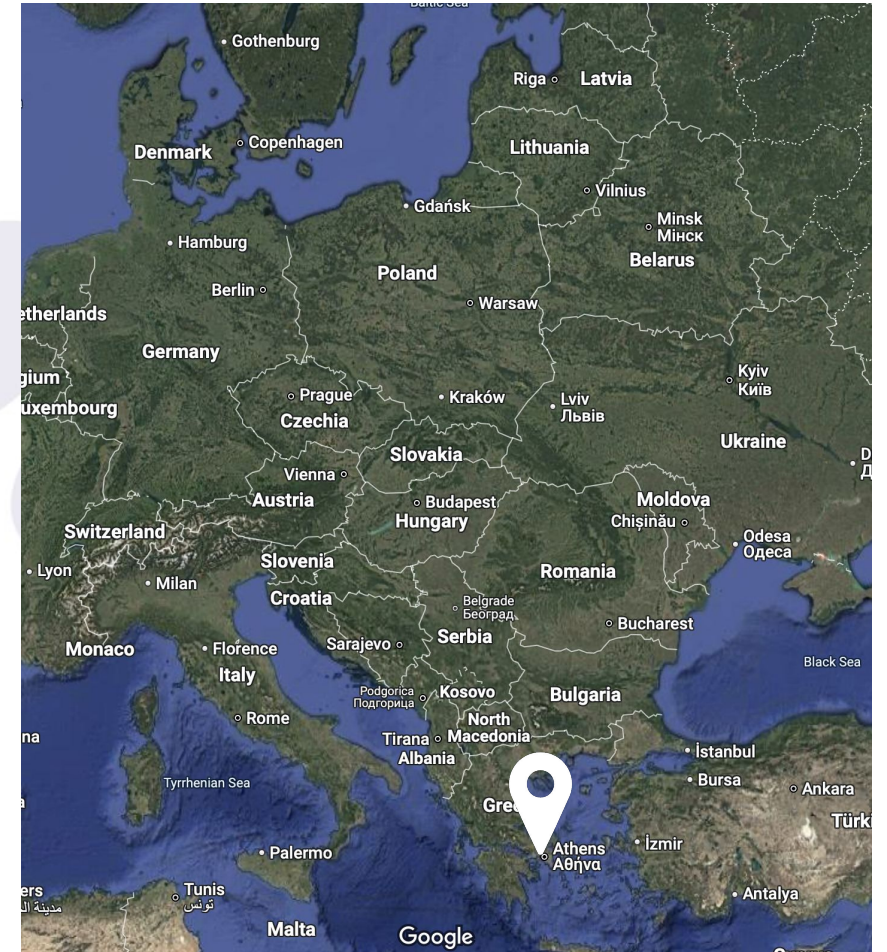
- Credits:** Shows "Actual total credits remaining in this period" and "Refreshes every 90 days".
- Running Servers (1):** A card for a "Medium" server with the following specifications:
  - vCPUs: 4
  - CPU: -
  - RAM (GB): 8
  - Storage (GB): 50
  - Cost: 0.5 credits / hour
  - Buttons: "Stop" and "View externally"
- Other Servers (2):** Two cards for "Small" and "Large" server configurations:
  - Small:** vCPUs: 2, CPU: 1, RAM (GB): 4, Storage (GB): 10, Cost: 0.04 credits / hour.
  - Large:** vCPUs: 8, CPU: 1, RAM (GB): 16, Storage (GB): 50, Cost: 50 credits / hour.
- External contributors:** A section at the bottom for managing external contributors.

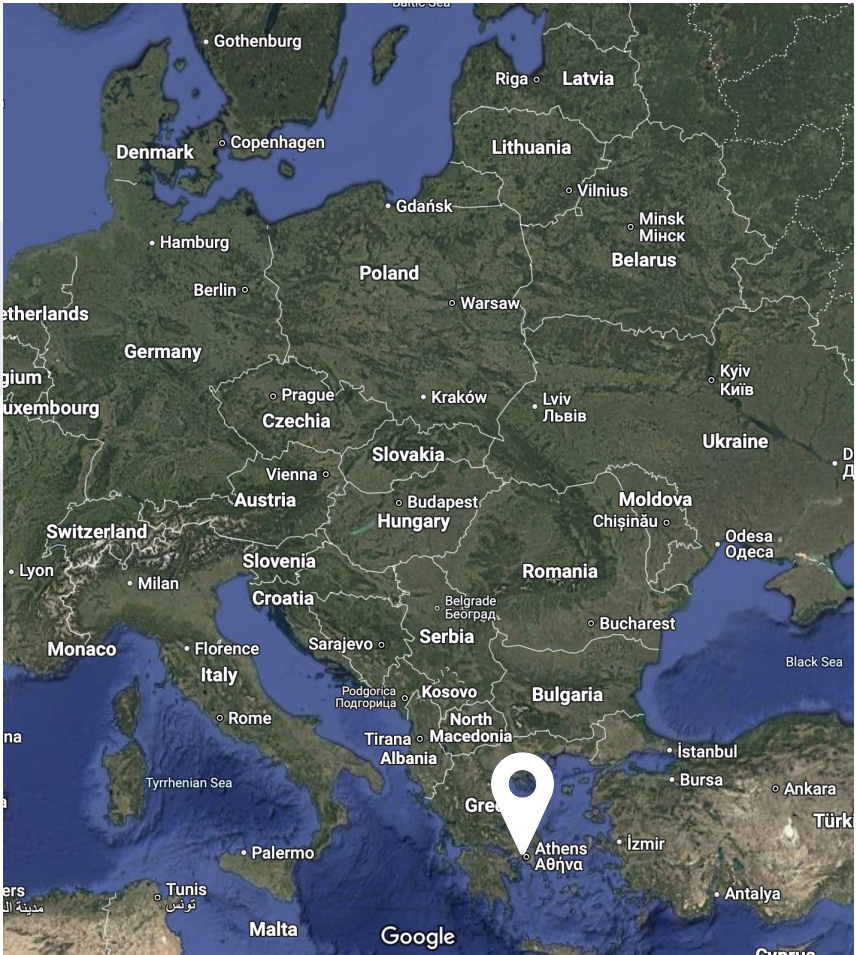
The left sidebar contains navigation options like "Overview", "Notifications", "Tools Hub", "SERVICES", and "GENERAL". The bottom of the image shows a Windows taskbar with the system tray.



## Step 2 - Jupyter Lab

- ✓ Access Interactive Notebooks Service
- ✓ Harvest data from local database
- ✓ Run and share notebook

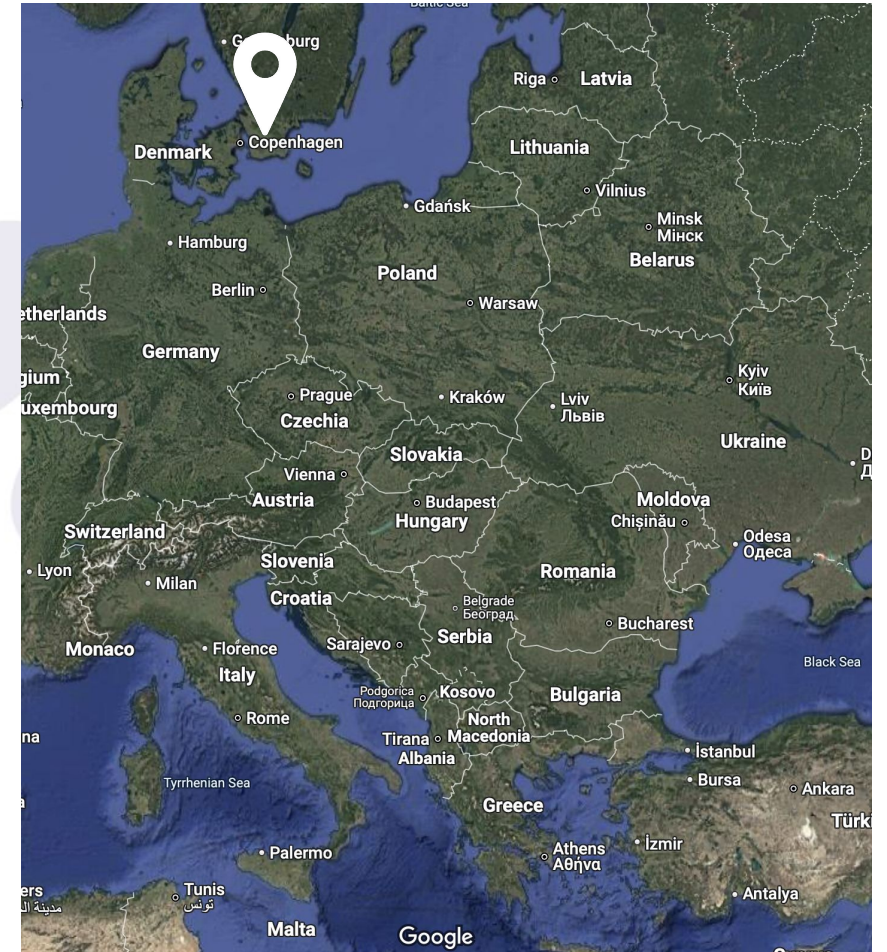


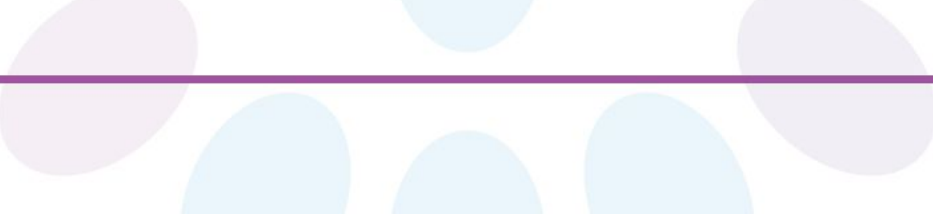
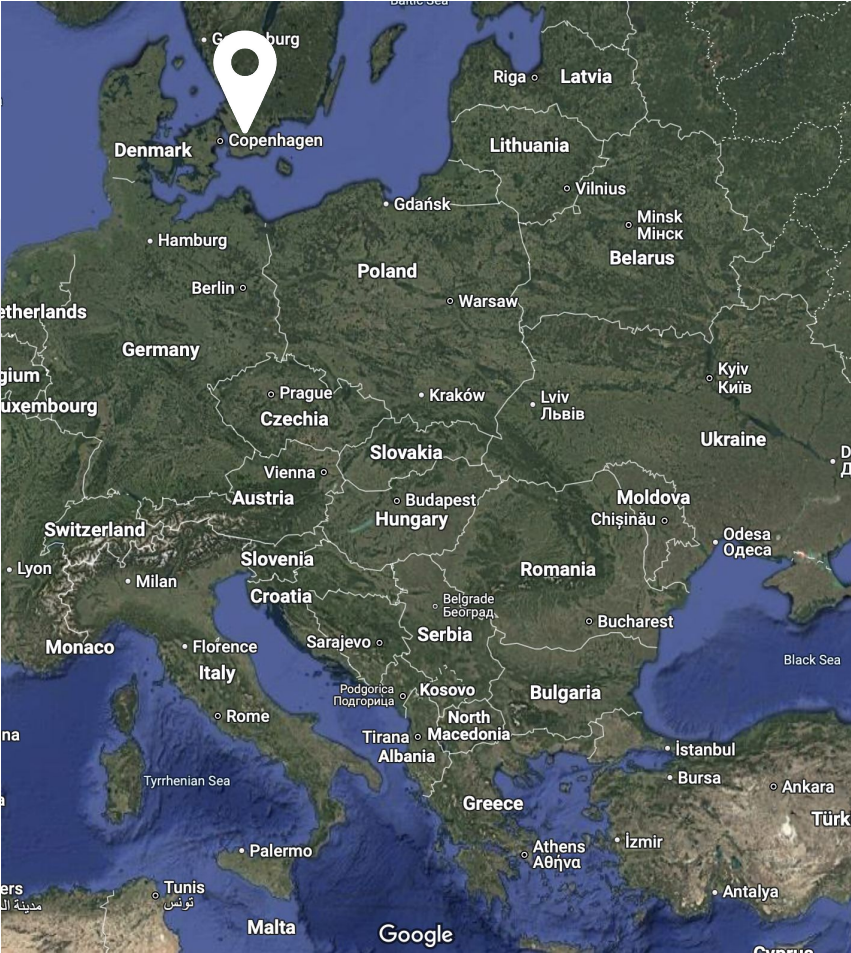
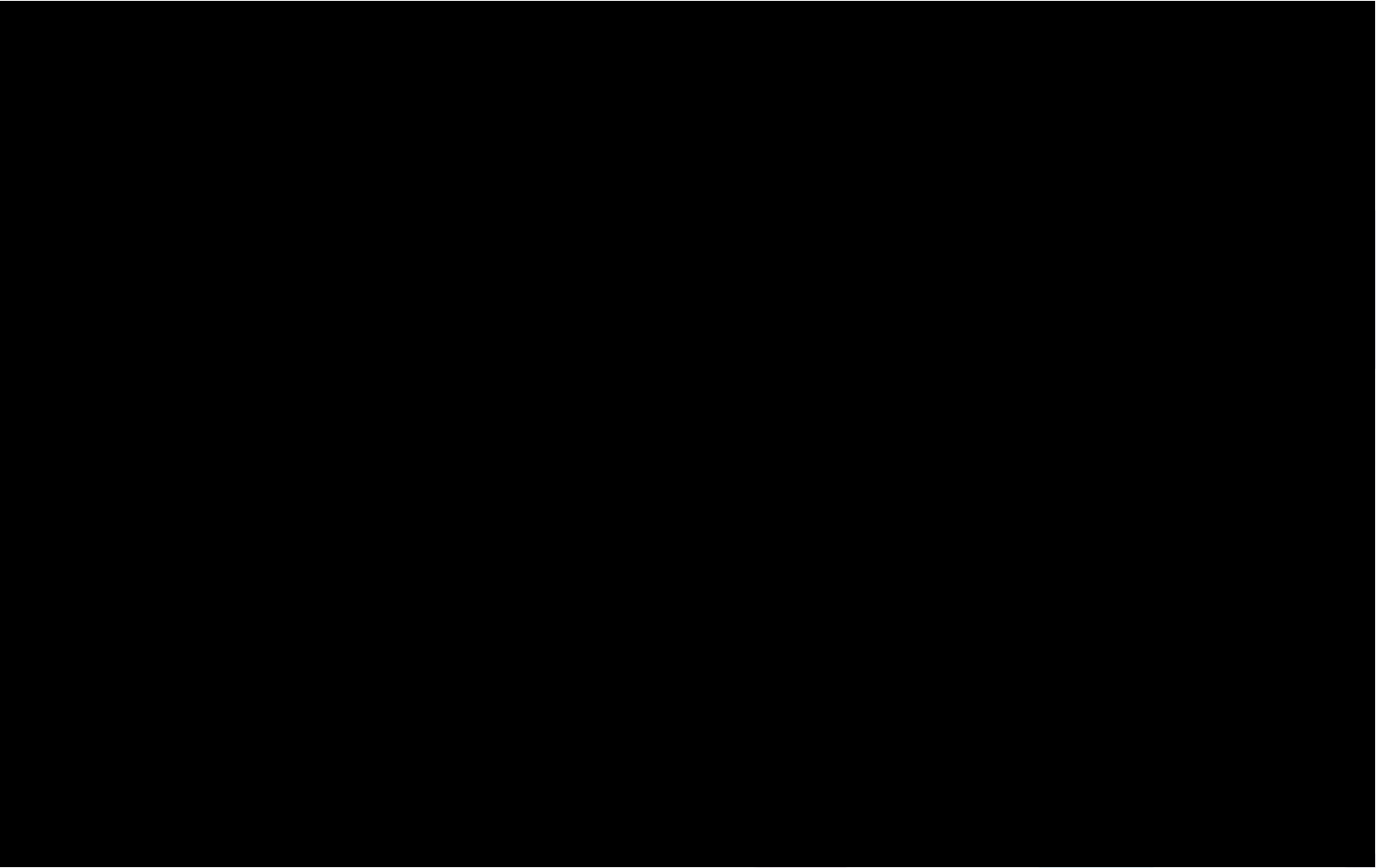




### Step 3 – File Share and Jupyter Lab

- ✓ File management
- ✓ Access to shared code and files
- ✓ New collaborative research output



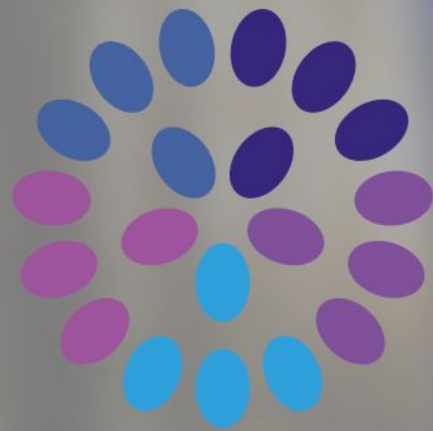


### Next Steps - Current environment

- Complete the test on Virtual Machines and Container Platform services
- Estimate credit costs for different tasks to decide where and when the EU Node services can be used
- Follow platform updates and utilise upcoming features and functionalities

### Future Steps - Expectations

- Collect (technical and other) user requirements (bigger storage, more credits, features and functionalities)
  - Investigate interoperation of systems including EOSC, ENVRI-Hub and relevant RIs/Institutions
- ❖ **Contribute to continuous community-provided feedback on EOSC services usability!**



OSCARS



Thank you