Enhancing Research through EOSC: A Comparative Perspective

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The research landscape

- Research drives breakthroughs in medicine, technology, and social sciences.
- Research holds the key to our most pressing issues.
- Data has become the lifeblood of research.
- Collaboration has become essential.
Meet the researchers

Dr. Socone

The traditional research experience
Climate scientist, dedicated, nerd
Challenges: data management difficulties, constrained resources, isolated work, no girlfriend, etc.

Dr. Seco

Research with EOSC
Climate scientist, cutting-edge, uber-nerd.
EOSC has transformed his research journey, providing streamlined data access, collaboration opportunities, and more resources.

Challenges: two girlfriends
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Let’s find some data, boys!

Dr. Socone (Cecil)

Needs measurement data from Europe
Climate data repositories around the world

1. International climate data repositories - 38

Based on re3data.org
Climate data repositories around the world

1. Institutional climate data repositories - 101

Based on re3data.org
Fragmented access

Dr. Socone (Cecil)

Climate data fragmentation monster
Non-interoperable data and services

Dr. Solone (Cecil)
Let’s find some data, boys!

Needs measurement data from Europe

Dr. Seco (Maximus)
Time spent on finding data

Dr. Socone

Dr. Seco

2 DAYS

2 WEEKS
Computing resources

Dr. Socone
Run virtual machines on-demand with attached online storage

This bundle gives you the ability to deploy and scale virtual machines on-demand, that can also store data in attached online storage. This way the services you build can not only process but also store data in a reliable and high-quality environment and share it across distributed teams. Your data can be accessed through different APIs and can be replicated across different providers to increase fault-tolerance.

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**General purpose**
Provided by EGI Foundation

- Number of CPU: 1 - 4
- Cores
- Amount of RAM per CPU core: 1 - 4 Gi
- Local disk: 10 - 40 Gi
- Number of VM instances: 1 - 5
- Access type: opportunistic - reserved
- Start of service: data
- Number of days: 1 - 73

**EGI File storage**
Provided by EGI Foundation

- Storage capacity: integer Gi
- Technology: DPM - Other
- Access type: opportunistic - reserved
- Special requirements
- Start of service: data
- Number of days: integer

Contact bundle support
Helpdesk

Select bundle
Process and analysis

Dr Socone

• Coding for days and days (and nights too)

• Sweating

• No success in finding other researchers scripts

• Sweating even more
In the pursuit of knowledge, the researcher is the torchbearer, but sometimes, they need a brighter torch. Is that EOSC?
Some sort of famous last words

1. EOSC as a functional(ish) tool
2. Future is dynamic for EOSC
   a. Enhance infrastructure
   b. New services
   c. Technological advancement (AI, blockchain technology, quantum computing)
   d. Expanding community engagement efforts
3. Researchers to transition to EOSC
4. As stakeholders in the world of research, we all have a role to play in shaping the future of EOSC.
The big reveal

SOCONE   SECO