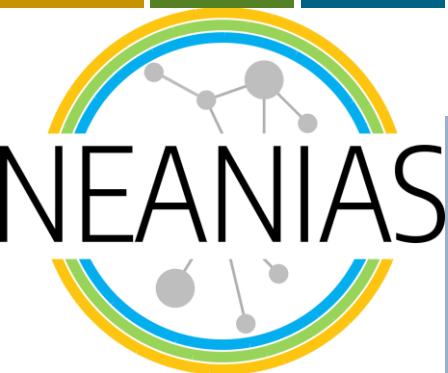


NEANIAS in the EOSC strategy

Dr. George Papastefanatos, Athena Research and Innovation Center



www.neanias.eu



Novel EOSC Services for Emerging
Atmosphere, Underwater & Space
Challenges

NEANIAS receives funding from
European Union under Horizon
2020 Research and Innovation
Programme under grant
agreement No. 863448



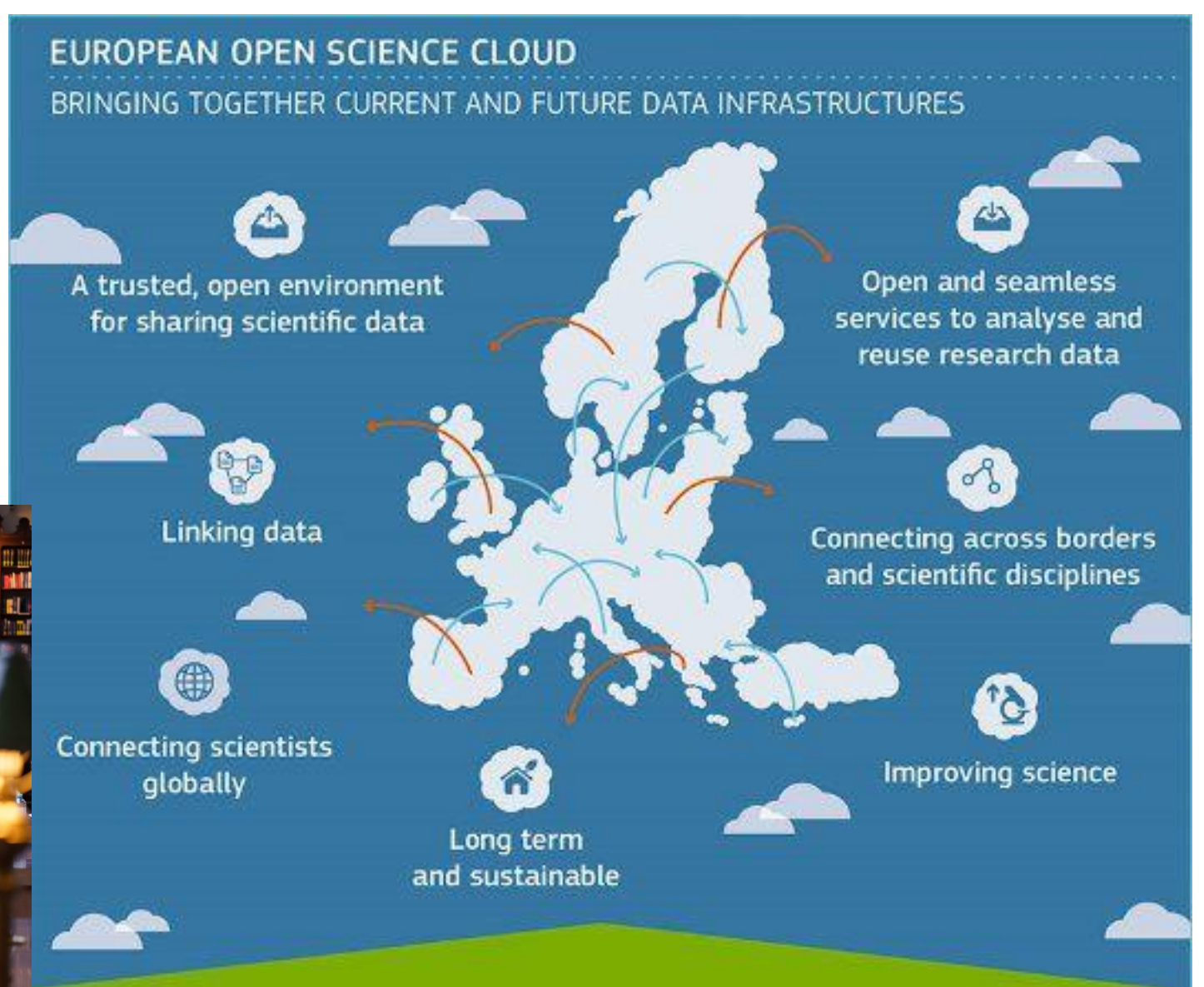
The Vienna Declaration on the European Open Science Cloud

Vienna, 23 November 2018

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We, Ministers, delegates and other participants attending the launch event of the European Open Science Cloud (EOSC):

1. **Recall** the challenges of data driven research in pursuing excellent science as stated in the "EOSC Declaration" signed in Brussels on 10 July 2017.
2. **Reaffirm** the potential of the European Open Science Cloud to transform the research landscape in Europe. Confirm that the vision of the European Open Science Cloud is that of a research data commons, inclusive of all disciplines and Member States, sustainable in the long-term.
3. **Recognise** that the implementation of the European Open Science Cloud is a process, not a project, by its nature iterative and based on constant learning and mutual alignment. Highlight the need for continuous dialogue to build trust and consensus among scientists, researchers, funders, users and service providers.
4. **Highlight** that Europe is well placed to take a global leadership position in the development and application of cloud services for Science. Reaffirm that the European Open Science Cloud will be both European and open to the world, reaching out over time to relevant global research partners.
5. **Recall** that the Council - in its conclusions of 29 May 2018 - welcomed the implementation roadmap and the federated model of the European Open Science Cloud.



https://ec.europa.eu/commission/news/european-open-science-cloud-becomes-reality-2018-nov-23_en

The European Open Science Cloud at a glance

EOSC is

... an environment for hosting and processing research resources to support EU science

EOSC's ambition

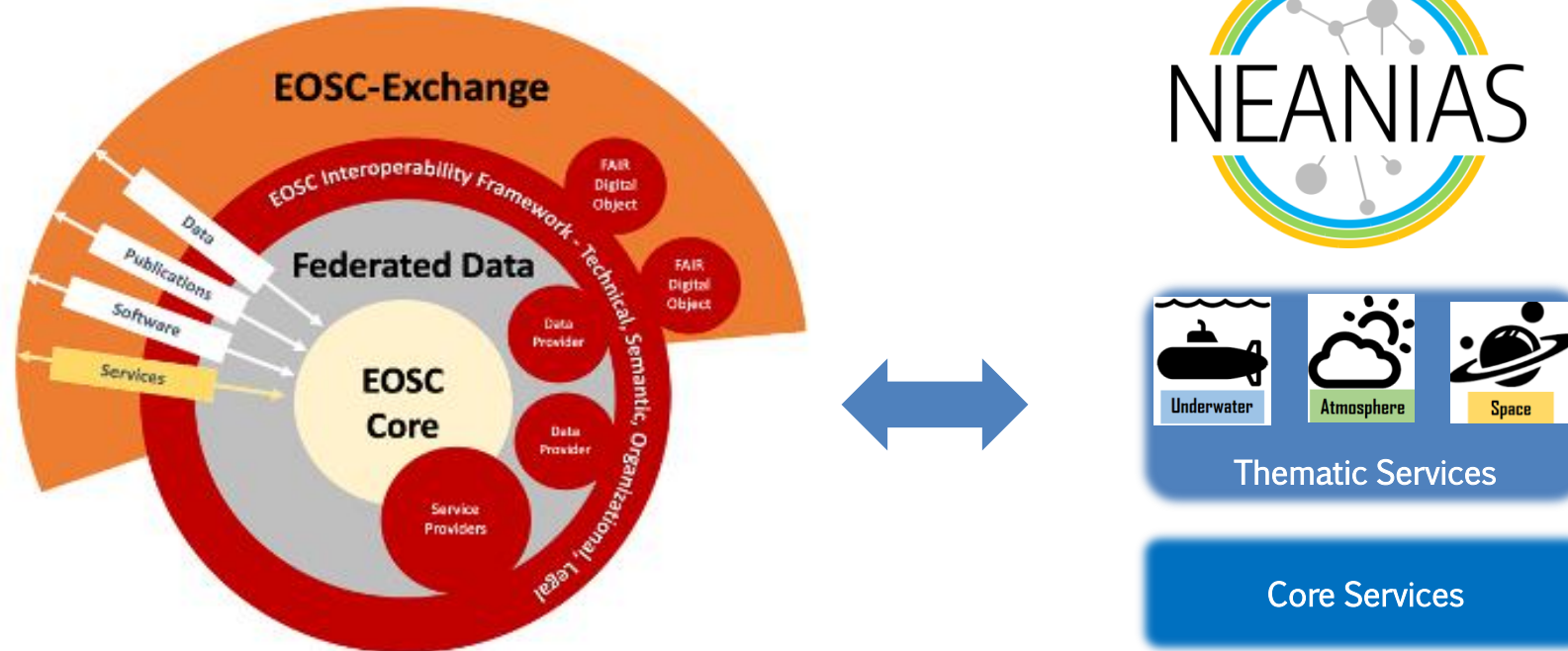
*To provide European researchers, innovators, companies and citizens with a **federated** and **open multi-disciplinary** environment where they can **publish, find and re-use data, sw** and **services** for research, innovation and educational purposes.*

EOSC aims to:

- provide **seamless access** to **data, sw** and **services**
- support **FAIR** (Findability, Accessibility, Interoperability and Reusability) management
- enable **reliable reuse** of research data and all other digital objects produced along the research life cycle (e.g. methods, software and publications)



NEANIAS in the EOSC Ecosystem



- › Develops and provides thematic services in the field of:
 - Underwater,
 - Atmospheric and
 - Space research
- › Aims to make thematic services available to EOSC communities
- › Integration with EOSC Portal and reuse of EOSC Core services

The NEANIAS journey towards EOSC integration

Define objectives

- to onboard nine (9) thematic services to EOSC; 3 services from each sector (Underwater, Atmospheric and Space research)

Setup the strategy and the plan

- EOSC integration plan
- NEANIAS Service Management System

Execute the plan

- Develop underlying core services (AAI, accounting, monitoring, etc.)
- Develop NEANIAS catalogue portal based on EOSC standards
- Facilitate EOSC onboarding (awareness raising, guidance and support to service providers) throughout the process

Check & adjust the plan

- Validation of EOSC integration plan
- Reporting on the progress of EOSC integration activities – Corrective actions

EOSC integration achievements: EOSC onboarding

- › 14 NEANIAS services available at EOSC Marketplace

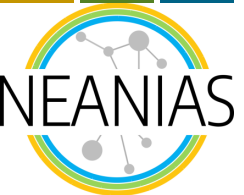
- eleven (11) thematic services



- three (3) core services

- › Artificial Intelligence: 2 services
- › Visualisation: 1 service

Project KPI = 9 thematic services on EOSC



NEANIAS offering in EOSC



EUROPEAN OPEN SCIENCE CLOUD



Search bar containing 'Neanias', a clear button (x), a dropdown menu (All resour... v), and a search button (Q).

My EOSC Marketplace

Home > Resources

All Resources

14

Looking for: Neanias

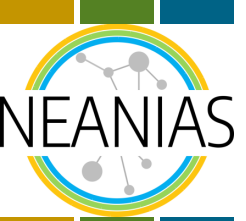
CATEGORIES

- Access physical & eInfrastructures 1
- Aggregators & Integrators 3
- Processing & Analysis 10
- Security & Operations 0
- Sharing & Discovery 4
- Training & Support 0
- Other 0

FILTERS

SUGGESTED

<p>ATMO-4CAST</p> <p>Atmospheric Forecast</p> <p>Organisation: Ubiwhere</p>	<p>VD-Maps</p> <p>Neanias' VD-Maps core service provides tools to create, serve and visualize imagery (2D images) or terrain-...</p> <p>Organisation: CORONIS COMPUTING SL</p>	<p>ATMO-STRESS</p> <p>ATMO-STRESS service for reconstruction of stress trajectories map</p> <p>Organisation: Athena Research and I...</p>
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NEANIAS Open Science and FAIR Management

- › Hackathons and Workshops
- › Innovation events for SMEs
- › Open Data from the 3 thematic areas
- › Best practices of EOSC Integration for other communities

EOSC offering in NEANIAS



EUROPEAN OPEN
SCIENCE CLOUD



- › Service Management System adopted by the 3 thematic communities
 - NEANIAS SMS followed EOSC SMS guidelines, processes and standards (FitSM).
- › EOSC Interoperability Guidelines
 - Adoption of EOSC Profiles v4.0
 - Reuse of EOSC APIs to sync service information directly from NEANIAS catalogue portal to EOSC Marketplace
- › Integration of EOSC Core services
 - NEANIAS Service monitoring based on EOSC Monitoring Service (ARGO)
 - Integration of NEANIAS AAI with EGI Check-In
 - Exploitation of Zenodo features for discovery, storage (or linking), publication and formalization of description of research artifacts
 - Use of EGI Resources to enable service ordering with computing resources provided by the user

NEANIAS twofold contribution to EOSC Strategy



ONBOARD COMMUNITIES TO THE OPEN
SCIENCE AND FAIR PRINCIPLES



POWER-UP EOSC WITH NEW RESOURCES
FOR MULTIDISCIPLINARY RESEARCH



Novel EOOSC Services for
Emerging Atmosphere,
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Thank you!

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22 SEPTEMBER 2022

NEANIAS OPEN EVENT