



# EOOSC

# Latest Developments

# EOOSC FUTURE

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NI4OS-Europe National End Users Training  
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# EOSC initiative to support Open Science

## Open Science

Widest possible access to and reuse of scientific outputs

Scientific productivity growth

Dissemination of knowledge





# Open Science strategy

**Open Science  
strategy**



- **Open Science policies and governance**
- **Services and infrastructures**
- **Skills and training**
- **Incentives and recognition**
- **Alignment with global projects and initiatives**
- Etc.



**Key to ensure EOOSC  
sustainability**

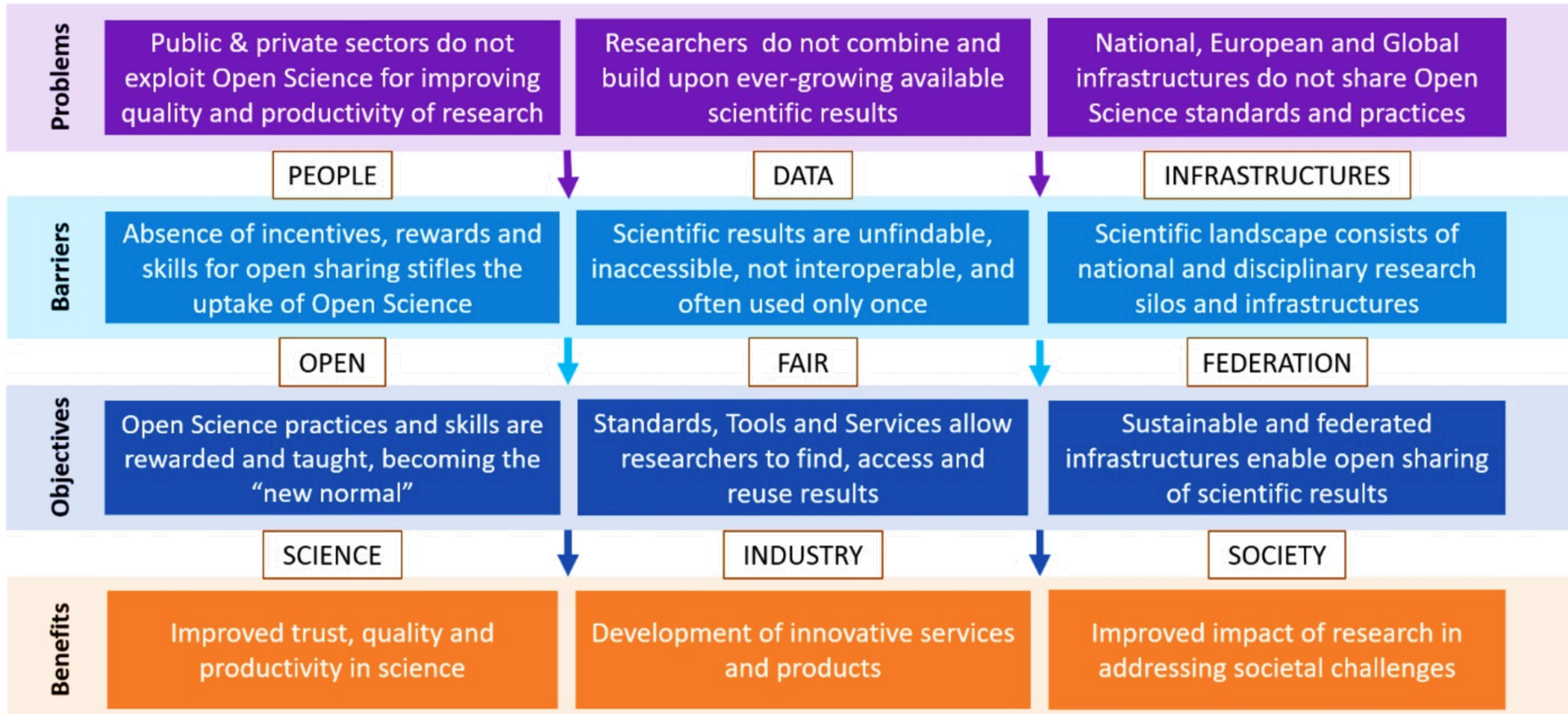




# EOSC Strategic Research Implementation Agenda



## European Open Science Cloud Objectives Tree

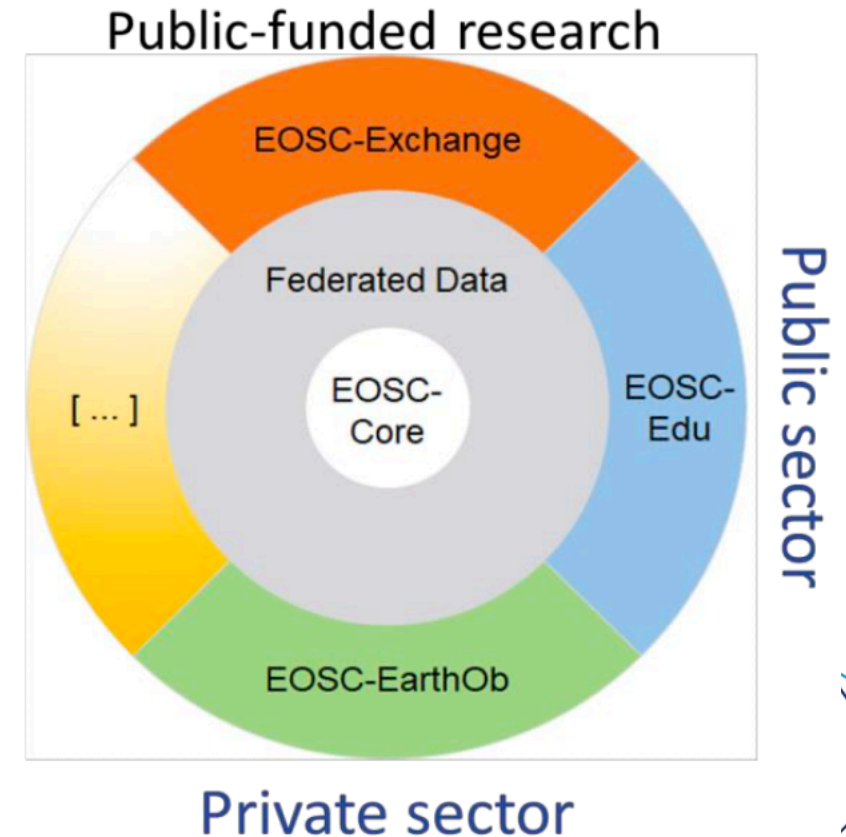




# What is the European Open Science Cloud - EOSC? - <https://www.eosc.eu/about-eosc>



- Vision: “**Web of FAIR Data and Services**” for science in Europe
- Multi-disciplinary environment where researchers can
  - publish,
  - find and
  - re-use
- data, tools and services
- Builds on existing infrastructure and services
  - federated ‘system of systems’



Decorative geometric lines in red and yellow in the top-left corner.

# EOOSC provides researchers with

Seamless access to content and services via common AAI

Access to FAIR and ideally open data from various sources

Access to services for storage, computation, analysis, preservation and more

Adoption of standards so data and services can be combined

Helpdesk, training and support to improve use of EOOSC





# EOSC Association

## Focal point of the EOSC Partnership with the European Commission

- Established in July 2020 as a not-for-profit international association
- Aims to serve the EOSC community, promote EOSC, and enable Open Science in Europe

## The EOSC Partnership aims to:

- Create a growing ecosystem, bringing together relevant European initiatives around the FAIR data economy
- Foster collaboration among those initiatives towards the objective of open research
- Attract small and medium-sized enterprises (SMEs) and start-ups to use and benefit from the federated services and data sources
- Raise awareness in society about the benefits of FAIR-data-driven innovation





# What are the EOOSC Advisory Groups / Task Forces

- Task Forces are groups within the AGs who undertake activities to implement certain aspects of EOOSC according to their topic
- A structure to help steer the implementation of EOOSC
- Groups should liaise with EOOSC projects and offer feedback and advice
- Identify strategic gaps and areas for investment to input to SRIA





Decorative geometric lines in orange and yellow at the top left.

# Task Forces Topics

## **Implementation of EOOSC**

- Rules of Participation compliance monitoring
- PID policy and implementation
- Researcher engagement and adoption

## **Technical challenges on EOOSC**

- Technical interoperability of data and services
- Infrastructure for quality research software
- AAI Architecture

## **Metadata and data quality**

- Semantic interoperability
- FAIR metrics and data quality

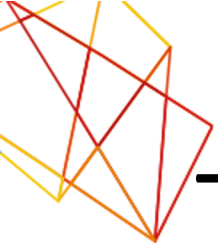
## **Research careers and curricula**

- Data stewardship curricula and career paths
- Research careers, recognition and credit
- Upskilling countries to engage in EOOSC

## **Sustaining EOOSC**

- Defining funding models for EOOSC
- Long-term data preservation





# The role of science clusters in EOOSC

- The science clusters (ENVRI-FAIR, EOOSC-Life, ESCAPE, PaNOSC, SSHOC) are making major contributions to the EOOSC as the key means of engaging research Infrastructures and their user communities
- The EOOSC roadmap foresees contributions from the science clusters that stretch beyond the lifetime of the science cluster projects



# EOSC - Science Clusters

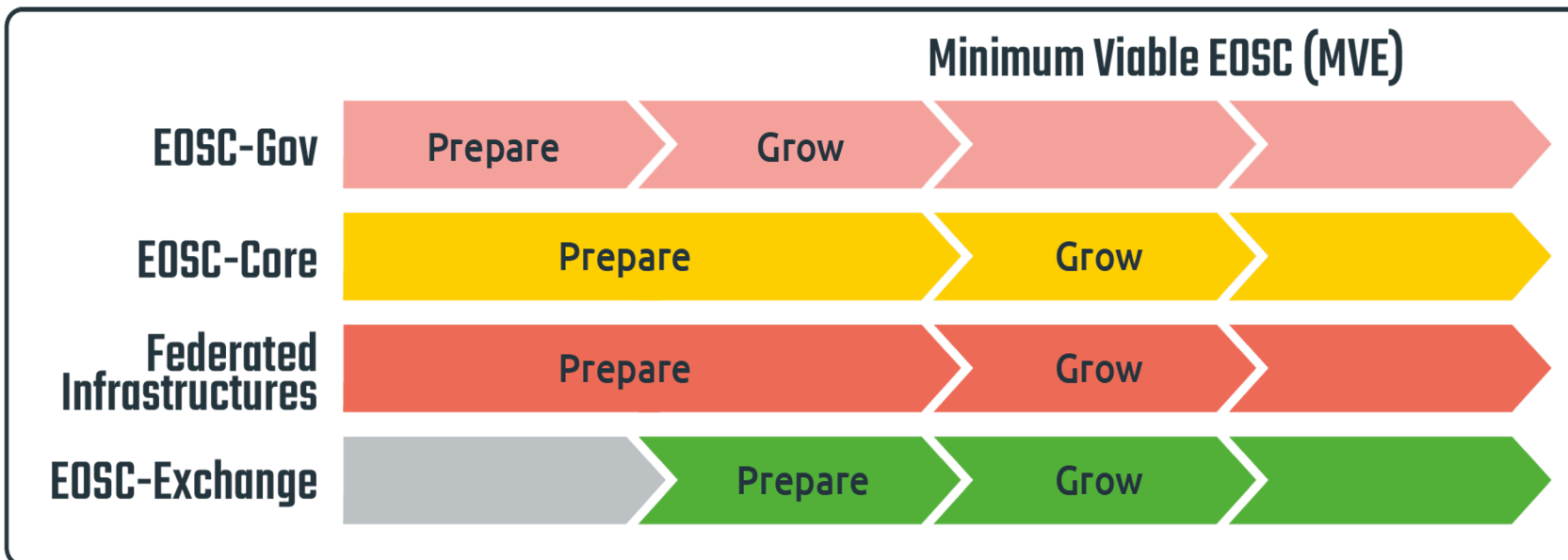


## ESFRI Science Clusters

- **ENVRI-FAIR** – environmental sciences
- **EOSC-Life** – life sciences
- **ESCAPE** – astronomy and particle physics
- **PaNOSC** – photon and neutron sciences
- **SSHOC** – social sciences and humanities



# Timeline of EOSC iterations





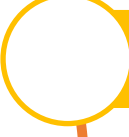




1<sup>st</sup> iteration

2<sup>nd</sup> & 3<sup>rd</sup> iterations



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# EOSC Future's Goals

-  Delivering and operating the EOSC-Core
-  Expanding EOSC-Exchange
-  Scaling up capabilities to deliver an EOSC Execution Framework
-  Increasing European scientific impact
-  Promote the participation of the commercial sector
-  Support and train users and providers
-  Engage with the EOSC communities and end users





# EOSC Portal <https://eosc-portal.eu/services-resources>



**Find EOSC Services  
that suit your use case  
yourself**

[Browse now!](#)



## Welcome to the EOSC Portal Catalogue and Marketplace!

*The current catalogue is the result of collaboration and merge of eInfraCentral Service Catalogue and EOSC-Hub Marketplace.*

This part of EOSC Portal serves as a universal entry point to the EOSC services, offering distributed and cloud computing resources enabling researchers and other users to process and analyse data in a distributed computing environment, access and order public and commercial e-infrastructure services supplied at national, regional and institutional levels.

It helps to develop synergies and complementarity in data handling between research infrastructures, optimise technological implementation thus contributing to the development of a consistent European research infrastructures ecosystem and ensure integration and interoperability of data and tools within the EOSC.

From the supplier side, it offers local, national and international providers the opportunity to advertise their own services and resources, which is compliant with the needs of European research community.

Visit the [Catalogue & Marketplace](#) or choose from the categories below.

- ✓ Browse catalogue offering data and services
- ✓ Search by resource type to find relevant tools
- ✓ Filter by scientific domains
- ✓ Virtual Tour <https://marketplace.eosc-portal.eu/?tour=overview>





# EOSC in numbers – April 2022



217  
Worldwide

80 EU-wide

137 virtual

81 remote

232 providers

318 onboarded  
resources

TRL-7, -8, -9

access options:

- free
- free (conditionally)
- paid
- peer reviewed
- other

219 – production

38 – operation

26 – beta



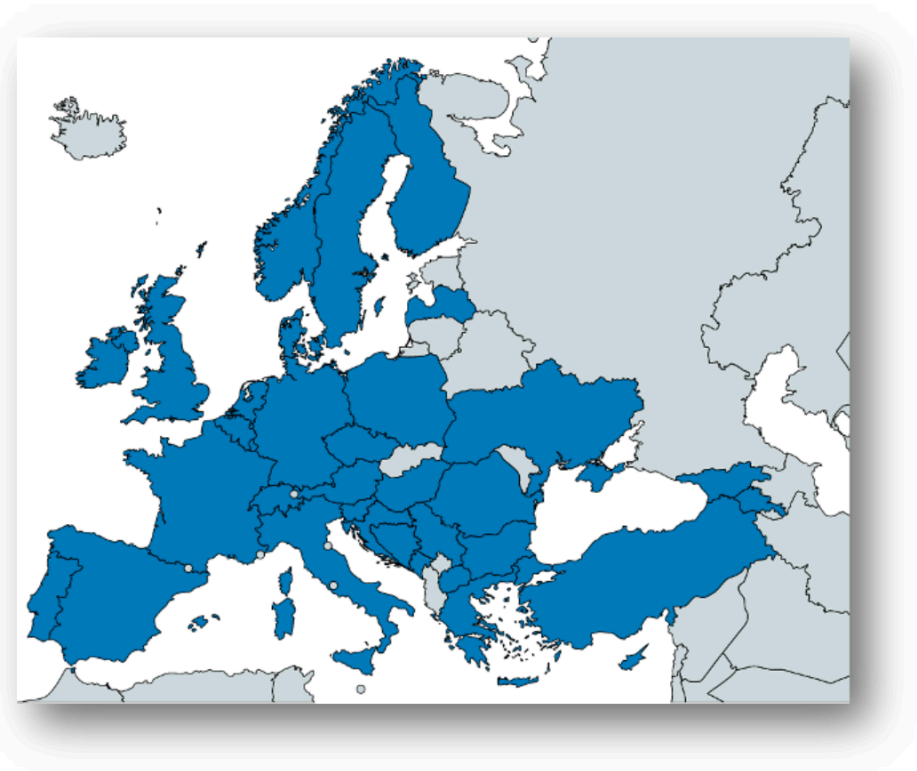
# How to participate in building EOOSC?







# EOSC Future User Groups



- ✓ A team of “EOSC champions” from different scientific disciplines across the EU to help test and refine services and products.
- ✓ The User Group will rely on surveys, focus groups, or testbed sessions to validate project outputs.
- ✓ 300 applications from different science areas and broad coverage.





# [EOSC Future Grants](#) – Research Data Alliance

- RDA is running a series of calls, in the context of the EOSC Future project, to further enable **integration and take up of EOSC services**.
- The **purpose** of these RDA Open Calls is to engage the community from a bottom-up approach to contribute their know-how to EOSC.
  - to enable communities outside of EOSC to leverage EOSC services
- Specifically **targets small projects to show implementation and take up** with the aims to
  - **support and encourage examples of adoption** of existing RDA recommendations and outputs which can benefit the community around EOSC
  - **promote examples and lessons learnt.**





# RDA Open Calls



## Open Calls



For Organisations



### RDA Open Call for RDA cross-disciplinary adoption in support of EOSC

This call specifically targets smaller community projects to show cross-disciplinary implementation and take up of RDA Recommendation and Outputs within the EOSC context.

**Opening date:** 11 Apr 22 - 12:00pm CET am CET

**Closing date:** 11 Jul 22 - 05:00pm CET

**€50.000**

per approved application

[Apply](#)

[Read more >](#)





# EOSC Symposium 2022



**Save the date**

**EOSC SYMPOSIUM**

14-17 November 2022  
in Prague and online





*"..we open up data as a resource for innovation and bring new solutions to the market - and our scientists are already beginning to do this. **We are now building a European Open Science Cloud.** It is a trusted space for researchers to store data and access data from researchers from other disciplines."*

# EOSC is here to stay!

- EOSC aims at creating a virtual research environment to access and interoperate research data and other research outputs in Europe across the different disciplines.



An abstract geometric logo consisting of overlapping lines in red, orange, and yellow, forming a complex, multi-faceted shape.

# Links & contact

- **Useful links:**
  - <https://www.eosc-portal.eu/>
  - <https://marketplace.eosc-portal.eu/>
  - <https://eosc.eu/>
- **Get in touch with EOOSC:**
  - <https://www.eosc.eu>
  - <https://eosc-portal.eu/contact-us>
- **EOOSC Future**
  - <https://eoscfuture.eu/>



# THANK YOU

# EOOSC FUTURE

Any Questions ?