



PROMPTING AN EOSC IN PRACTICE

Recommendations of the EOSC 2nd High Level Expert Group

Silvana Muscella, Chair of the 2nd HLEG

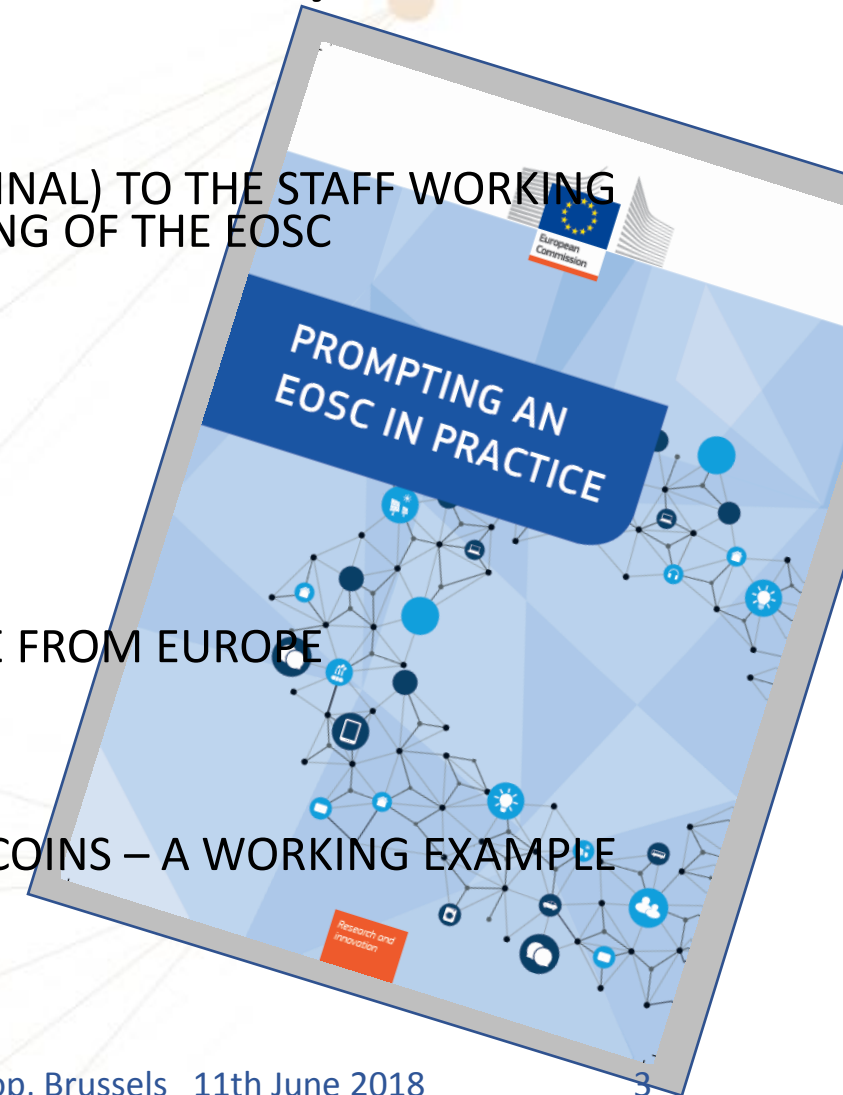
EOSC Summit - Rules of Participation Workshop, Brussels 11th June 2018

About the 2nd HLEG

- » 10 members, chosen by the EC, from 8 European countries + Australia + the U.S.
- » **Andreas Mortensen, Silvana Muscella (Chair), Isabel Campos Plasencia, Toivo Räm, François Robida, Linda Strick, Klaus Tochtermann, Žiga Turk, George A. Komatsoulis (Observer, USA), Ross Wilkinson (Observer, Australia)**
- » Comprehensive expertise related to the set-up of scientific data clouds, including standardisation, certification, procurement, delivery of federated services, business models, management, governance, and funding of national and European research data infrastructures and e-Infrastructures
- » Co-authors of the report “Prompting an EOSC in Practice”, presented today in its draft version
- » Operating from July 2017
- » Will complete its mandate in December 2018

The interim report – publicly available from today

- » 1. INTRODUCTION
- » 2. THE POLICY LANDSCAPE: FROM COMMUNICATION (COM/20160178FINAL) TO THE STAFF WORKING DOCUMENT (SWD 2018 83FINAL) COUNCIL CONCLUSIONS TO LAUNCHING OF THE EOSC
- » 3. MAKING EOSC A VIABLE ECOSYSTEM
- » 4. EOSC BUSINESS MODEL: FINANCING THE EOSC
- » 5. RULES OF PARTICIPATION
- » 6. THE ROAD AHEAD TO COMPLETION OF THE 2ND HLEG
- » **7. RECOMMENDATIONS**
- » 8. EOSC IN PRACTICE STORIES: SELECTED TESTIMONIALS OF EXCELLENCE FROM EUROPE
- » 9. CONCLUSIONS
- » ANNEX I – EOSC IN PRACTICE STORIES
- » ANNEX II – REQUIREMENTS FOR CONFORMANT PROVIDERS OF CLOUD COINS – A WORKING EXAMPLE



Focus on the recommendations provided in the report

- » Clustered along the three fundamental dimensions of **Implementation**, **Engagement** and **Steering**, as deemed appropriate considering the current phase of the EOSC journey
- » **Implementation** : The focus here is to support practical implementation of the EOSC, with a set of “priority specifications” and other “technical stimuli”
- » **Engagement**: One central element for the success of the EOSC, part of the “participation” issue, will be engagement of all the Actors, starting with the researchers. The “Engagement Recommendations” highlight some practical ways of supporting an “EOSC Engagement Strategy”
- » **Steering**: EOSC will need to select and yet receive strategic advice and steering input from a number of sources and the following recommendations highlight a few valuable paths

Implementation recommendations [1 of 2]

- » I1 – The EOSC should implement “whatever works” and do “whatever it takes” to **increase the availability and volume of quality & user-friendly scientific information on-line.**
- » I2 – Define **EOSC interoperability standards** so that services can be interconnected and federated to be as effective as possible and be based on existing open standards.
- » I3 – Define an **EOSC Quality of Service (QoS) standards**, separate for all elements of the ecosystem (data, data access services, software, etc.), to develop a trustable ecosystem
- » I4 – Introduce, as part of EOSC’s mission, that a **state of the art analysis is carried out on a national level within the Member States** for assessing statistics and key assets around the composition and relevant clustering of the community of users, with the respective eInfrastructures & research infrastructures & scientific communities.
- » I5 – The universal entry point to the EOSC should provide access to a **marketplace of efficient and effective services**, with lightweight integration (authentication and authorization infrastructure, order management, etc.) where service providers can find service users and vice versa. Nothing is wrong with multiple entry points which should be seen as a plus rather than a negative fragmentation.
- » I6 – Adopt EOSC standards – from international standards - for information encoding and for protocols for data sharing and publication to **implement FAIR principles over data and services** in a complete & efficient way. And vice versa, offer open EOSC standards to international standardisation bodies

Implementation recommendations [2 of 2]

- » I7 – Promote the development of services as **independent, interoperable and exchangeable building blocks** to foster the future accreditation of innovative and/or efficient alternatives.
- » I8 – Promote **open software development**, where possible, for all elements of the EOSC.
- » I9 – Introduce a **regular assessment of EOSC against other alternatives, including commercial providers**. This could be made to either enhance an EOSC Service, or to support new Services;
- » I10 – Simplify early (beta) participation in the EOSC by potential data providers, service providers, and underlying infrastructure providers, by relaxing initial constraints but **without relaxing quality standards for data and services**.
- » I11 – **Resource allocation**, particularly for early stage pilots, needs to be dynamic and amenable to change even at short notice;
- » I12 – Build a workforce able to execute the vision of the EOSC by **ensuring data stewards, data and infrastructure technologists and scientific data experts who are trained and supported adequately**.

Engagement recommendations

- » E1 – Create **career-enhancing incentives** for researchers who open the science that they produce as also indicated by the OSPP, e.g., who lodge high quality, curated data in trusted repositories, share data services to their peers, or develop open software and services, and make the EOSC a portal to those incentives.
- » E2 – Develop, both at Member State and also EU level, appropriate **engagement schemes** whereby **publicly-funded research infrastructure providers and research communities take part in the EOSC**.
- » E3 – EOSC should take **national and international developments into account** and should be connectable to national and international frameworks
- » E4 – To **stimulate the “supply side”** of the EOSC, ensure creation of economic incentives for research infrastructure providers to use and co-develop shared facilities and data repositories through the EOSC. This would be supported by the Commission through the European Data Infrastructure (EDI).
- » E5 – To **stimulate the “demand side”** of the EOSC, ensure establishment of dedicated funding for demonstrations of the EOSC at EU level that would include researchers and their infrastructure providers (e.g., EOSC in practice stories, cross-disciplinary success of EOSC).

Steering recommendations

- » S1 – Ensure that the WGs and the other advisory structures well cover for the Executive Board **the latest scientific and organisational trends and novel ideas** for the necessary decisions in those areas.
- » S2 – Harness **inputs and pledges of the coalition of doers** and support their activities in the context of EOSC implementation.
- » S3 – Ensure, both at pan-European and international level, that research communities pursue **advanced partnerships**, also supporting with grants and other incentives, so that EOSC's progress is not dependent on the slowest but on the fastest movers.
- » S4 – Guidelines and rules should be clearly separated into (i) domains for which stability and trustability are important and (ii) domains for which progress must take place rapidly. The former should have rules and **instructions** that remain stable in time, whereas the latter should be run by **living documents**, facilitating innovation and change. All guidelines and rules should be accounted for in the **establishment and progress of the WGs**.

Next steps

» Be heard! Participate to the **Stakeholders Open Consultation**

<https://eoscpiot.eu/open-consultation>

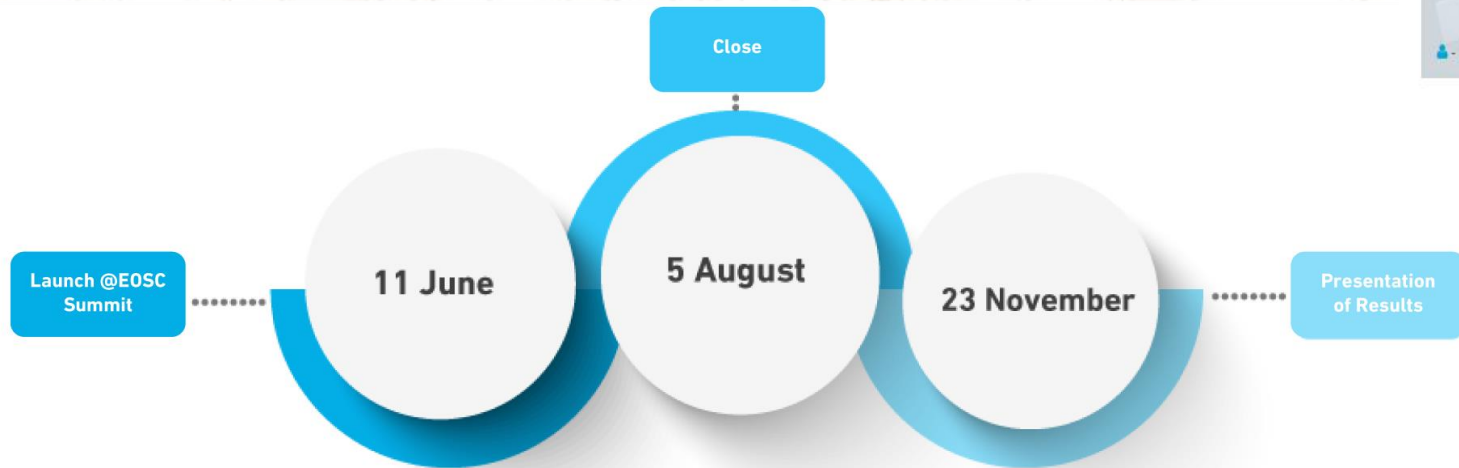
Stakeholders Open Consultation

[Home](#) » [Stakeholders Open Consultation](#)

This Open Consultation, launched and carried out by the EOSC High Level Expert Group, supports the dialogue with all the actors involved in the EOSC. A rich feedback on Rules of Participation from all the relevant stakeholders is essential for the EOSC.

Get involved by publishing/commenting posts, agreeing/disagreeing with principles & recommendations, or by simply leaving a 'like'.

Thank you in advance for your support!



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