Upskilling Countries to Engage in EOSC Task Force

Open science training and education in EOSC

The story so far

30 | 11 | 2023 by Helen Clare, Jisc



In 2016 the report Realising the European Open Science Cloud identified 10 challenges and general observations, three of which highlighted a need for relevant skills:

- "There is an alarming shortage of data experts both globally and in the European Union.
- This is partly based on an archaic reward and funding system for science and innovation, sustaining the article culture and preventing effective data publishing and re-use.
- A lack of core intermediary expertise has created a chasm between e-infrastructure providers and scientific domain specialists."

"500,000 data scientists needed in European open research data"

Realising the European Open Science Cloud (2016) <u>https://ec.europa.eu/research/openscience/pdf/realising</u> <u>the european open science cloud 2016.pdf</u>



coeosc Centre for Open Science Model of Culture Change



Brian Nosek, <u>https://www.cos.io/blog/strategy-for-culture-change</u>



ec.europa.eu/research/openscience/index.cfm?pg=open-sciencecloud

EOSC - The European Open Science Cloud

Enabling the digital transformation of research: towards more of data-intensive, collaborative and cross-disciplinary science "A web of FAIR data and services" "A process not a project" Seosc EOSC Strategic Research and Innovation Agenda Three overarching objectives:

- 1. Ensure that Open Science practices and skills are rewarded and taught, becoming the 'new normal'
- Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results
- 3. Establish a sustainable and federated infrastructure enabling open sharing of scientific results

meose SRIA priorities for skills and training

Priority 1: Developing the next generation of Open Science and data professionals
 Priority 2: Bridging the education gap: coordinating and aligning curricula for students and researchers

Priority 3: Building a trusted and long-lasting knowledge hub of learning materials and related tools

Priority 4: Influencing national Open Science policy for skills by supporting strategic leaders

Supported by detailed Multi-Annual Roadmap (MAR) https://eosc.eu/sria-mar/



Upskilling Countries to Engage in EOSC Task Force

EOSC Association Task Forces 2021-2023

Addressing key areas of implementation <u>https://eosc.eu/eosc-task-forces/</u>

AG Sustaining EOSC

- TF Financial Sustainability
- TF Rules of Participation Compliance
 Monitoring

AG Research Careers and Curricula

- TF Data Stewardship, curricula and career paths
- TF Research Careers, Recognition and Credit
- TF Upskilling countries to engage in EOSC
- TF Researcher Engagement & Adoption

Technical Challenges

• TF AAI

- TF Infrastructures for quality research software
- TF Technical Interoperbility of Data and Services
- TF Long-term Data Preservation

AG Metadata and data quality

- TF FAIR metrics and data quality
- TF Semantic Interoperbility
- TF PIDs



Upskilling chairs

Jessica Lindvall (SE, NBIS/ELIXIR-SE) Sabina Anderberg (SE, Stockholm University) Helen Clare (UK, JISC) Zisis Kozlakidis (FR, BBMRI)

Data stewardship chairs

Ilire Hasani-Mavriqi (AT, TU GRAZ) Celia van Gelder (NL, DTL/ELIXIR-NL) (Vera Matser, UK, EMBL-EBI)

Research careers, credit & recognition chairs

Francesca Di Donato (IT, CNR) Gustav Nilsonne (SE, Karolinska Institutet)

Researcher engagement & adoption

Sverker Holmgren (SE, Chalmers University) Franciska de Jong (NL, CLARIN-ERIC)



Upskilling Countries to Engage A timeline of training in EOSC Task Force

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coeosc Upskilling Countries to Engage Areas of training activity in EOSC*



* Not exhaustive!

Upskilling Countries to Engage in EOSC

Upskilling Countries to Engage

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- Aligning and supporting existing EOSC initiatives on a national/domain basis
- Promoting the exchange of approaches across the member states and regions, organisations and groups
- Leveraging information from EOSC Task Forces, projects and initiatives to help nations to identify and **implement** paths to improvement or "upskilling"



Activities

- Regular monthly sharing presentations
- Blog posts
- Widening participation activities



Key findings

- **Context matters**
- Flexibility and adaptability are needed
- Collaboration is key
- Knowledge exchange accelerates progress
- Recommendations for widening countries



Next steps

- Final report
- Joint paper on engagement strategies
- **EOSC Winter School**
- Continued activities under EOSC umbrella



Activities

Three subgroups:

- Institutional Perspectives
- National Perspectives
- Perspectives of Thematic Communities at the International/European level

Key findings

- Very broad area covered
- While also crucial for future success of EOSC, there is a need to focus limited resources
- Focus area: Research Performing
 Organisations

Next steps

- The need to focus on engagement of RPOs has been noted by EOSC-A Board
- Workshop planned for Spring 2024 to inform future engagement

Researcher Engagement and Adoption

- To formulate and communicate a solid EOSC's value proposition for EOSC.
- To capture and understand the needs and expectations of researchers with respect to EOSC.
- To create the conditions to enable them to increase their engagement of EOSC as users and service/data providers.
- To involve them in a participative process to further improve EOSC services and value proposition, and act as champions for new communities.
- To provide recommendations on how to speed up the EOSC engagement and adoption for national / EU / institutions

Research Careers, Recognition and Credit

Upskilling Countries to Engage

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- To address incentives and rewards for researchers to manage and share their data, code and other research outputs, activities, and processes
- These incentives and rewards will be based on making criteria of Open Science and FAIR principles an integral part of academic career progression and grant assessment processes
- The Task Force will identify various research stakeholders groups and their specific roles and responsibilities in support of embedding incentives and rewards for researchers in assessment processes



- Review of landscape and identifying gaps for TF to address
- Development of recommendations



Key findings

- Research assessment a very active and fast-moving space
- Recommendations to EOSC Board and to the EOSC Association via position paper



Next steps

- Defining role for EOSC in supporting CoARA activities
- Joint paper on engagement strategies



Activities

- Actively engage with stakeholders and build on previous work: build, connect & consolidate
- Ensure a co-creation process between theoretical development and implementation examples

Key findings

- Recommendations for Data Stewardship Skills, Training and Curricula with Implementation Examples from European Countries and Universities
- Data Stewardship Career Paths: State-of-the-Art Report and Recommendations
 Next steps



- Working with RDA special interest group on Professionalising Data Stewardship
- Skills4EOSC producing a curriculum for data stewards

Data Stewardship, curricula and career paths

- Focus on the Data Steward role and their core activities
- Work on data stewardship job roles and curricula to ensure these are recognised and aligned across Europe
- Develop recommendations for potential career paths taking into account appropriate recognition and rewards for data management activities





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CDEOSC Upskilling Countries to Engage EOSC Winter School , Jan 2024



Concluding remarks

- EOSC is supporting the development of skills, reward, recognition and upscaling
- Guided by the SRIA and MAR
- Aim to complement existing activities not duplicate
- Many partners from e-infrastructures are involved and play an integral role







Upskilling Countries to Engage in EOSC Task Force

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Thank you!

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