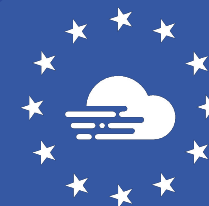


EOSC Association Task Force on Data stewardship curricula and career paths

Ilire Hasani-Mavriqi, Graz University of Technology
Francesca Frontini, ILC CNR & CLARIN ERIC

**Training the trainers: Data Management and FAIR data
principles in university curricula**

15 September 2021



**EUROPEAN OPEN
SCIENCE CLOUD**

What are the EOSC Task Forces?

- A structure to allow Association members and others to help steer the implementation of EOSC
- TFs should liaise with EOSC projects and offer feedback and advice
- Identify strategic gaps and areas for investment to input to SRIA
- EOSC Association members can propose and lead TFs. Externals can also be members

Source: Sarah Jones, 2021, EOSC Advisory Groups & Task Forces

Task Force topics

Implementation of EOSC

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

Technical challenges on EOSC

- 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 EOSC

Sustaining EOSC

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

<https://www.eosc.eu/news/draft-charters-eosc-association-task-forces-published>

Source: Sarah Jones, 2021, EOSC Advisory Groups & Task Forces

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Timeline

Activity	Date
First selection of TF coordinators and drafters	April 2021
Write charters	May/June 2021
Publish and present charters	EOSC Symposium (16/6)
Second call for TF members	Deadline end of June
Process applications and select	By September 2021
Beginning of activities of TF	October 2021

Charter template

Main aims - *Encapsulate the main aims of the Task Force in a few sentences*

Core activities - *Specify a basic workplan and set of activities which the group will address, highlighting key outputs / outcomes expected and a timeline for these*

Planned duration - *Specify how long you expect the group to run. 12-24 months is anticipated as a typical length*

Working methodology - *Describe how the Task Force will approach its work and engage with stakeholders. Are focus groups, workshops or other forms of interaction envisaged to solicit feedback and test implementation? Also consider how the community at large will be kept informed.*

Dependencies - *Identify key dependencies that will affect work, such as overlap with other Task Forces, inputs required from projects or engagement from certain communities*

Membership - *Describe the proposed membership composition and size, denoting the competencies needed within the group and how balance should be achieved to represent different stakeholders such as research communities, implementers, funders and research performing organisations*

Source: Sarah Jones, 2021, EOSC Advisory Groups & Task Forces

Selection of members

- Focus on relevant skills for delivering Task Force remit
- Prioritise Association Members & Observers
- Prioritise people who add value to EOSC
- Ensure research community inputs
- Include key project representatives responsible for implementation
- Ensure diversity and balance in terms of:
 - Gender
 - Country
 - Career stage
 - Stakeholder category
 - Organisation / member
 -

Source: Sarah Jones, 2021, EOSC Advisory Groups & Task Forces

Drafting the Data stewardship TF charter

- Coordinators
 - Ilire Hasani-Mavriqi, Graz University of Technology
 - Francesca Frontini, ILC CNR & CLARIN ERIC
 - Vera Matser, EMBL
- Volunteers
 - 10 people

Drafting the Data stewardship TF charter

- **Coordinators**

- Ilire Hasani-Mavriqi, Graz University of Technology
- Francesca Frontini, ILC CNR & CLARIN ERIC
- Vera Matser, EMBL

- **Volunteers**

- 10 people

First draft by coordinators



Input from volunteers



Final version submitted

https://www.eosc.eu/sites/default/files/tfcharters/eosca_tfdatastewardshipcurriculaandcareerpaths_draftcharter_20210614.pdf

Data stewardship curricula and career paths

Approach

- Build on previous work
- Collect list of relevant initiatives and stakeholders
 - RDA, Recommendations from the Digital Skills for FAIR and Open Science report
 - Dutch roadmap towards national implementation of FAIR data stewardship
 - National Coordination of Data Steward Education in Denmark
 - EDISON Data Science Framework
- Align with other TFs - intermediate meeting
 - Research careers, recognition and credit
 - Upskilling countries to engage in EOSC

Data stewardship curricula and career paths

Scope

- Core focus of the TF is on the data steward roles
- Core set of competencies/skills
- Specialisation skills depending on setting
- Recognise overlap with other roles (e.g., Data Curator, EOSC Educator, Data Scientist and even Research Software Engineer)

Dependencies

- Research careers, recognition and credit Task Force
- Upskilling countries to engage in EOSC Task Force
- RDA Professionalising Data Stewardship IG
- RDA Education and Training on handling of research data IG
- Any initiatives or projects implementing recommendations from the Digital Skills for FAIR and Open Science report [5]

Duration: 24 months

Data stewardship curricula and career paths

Core activities

- T1: Stakeholder management and dissemination
- T2: Definition of a minimal data stewardship curricula (taking into account previous work [1-5, 8])
 - Data Stewards roles
 - Competency profile for data stewards
 - Levels of training
- T3: Career paths for Data Stewards and associated roles (taking into account previous work [1-4])
 - How do available roles map onto data stewards in international context
 - Recognition and rewards for data management activities
- T4: Implementation examples using use cases

Data stewardship curricula and career paths

Working methodology

- Release work in versions to incorporate feedback and lessons learned
- Ensure a co-creation process between theoretical development and implementation examples
- Hold public consultation through e.g., surveys, interviews, discussion workshops with stakeholders across all activities
- Hold close communication with other relevant task forces to align and optimize efforts
- Collect use cases from within as well as outside the task force

Data stewardship curricula and career paths

Membership

- Between 25-30 members
- Roles and engagements of the TF:
 - Co-chairs
 - Co-Task leaders (2 per task)
 - Task Force members
- Selection criteria
 - General EOSC criteria
 - Additional criteria set by the TF charter
 - Spread of contributors across the tasks 2-4
 - Willingness to serve as co-chair/co-task leader/members
 - Individuals should commit to provide significant input for the duration of the TF
 - Indicate if you can provide relevant implementation examples

What happens now?

- Membership to be announced soon
- First meeting of TF in the coming weeks
- Chairs to be appointed
- Beginning of activities

Important to align with on going activities and to keep stakeholders in the loop!

Data stewardship curricula and career paths

References

- [1] Mijke Jetten, Marjan Grootveld, Annemie Mordant, Mascha Jansen, Margreet Bloemers, Margriet Miedema, & Celia W.G. van Gelder. (2021, January 1). Professionalising data stewardship in the Netherlands. Competences, training and education. Dutch roadmap towards national implementation of FAIR data stewardship (Version 0.1). Zenodo. <http://doi.org/10.5281/zenodo.4320505>
- [2] National Coordination of Data Steward Education in Denmark
https://www.deic.dk/sites/default/files/Data%20Steward%20Education%20in%20Denmark_0.pdf
- [3] S. Scholtens, M. Jetten, J. Böhmer, C. Staiger, I. Slouwerhof, M. van der Geest, C.W.G van Gelder (2019, October 5). Towards FAIR data steward as profession for the lifesciences. Report of a ZonMw funded collaborative approach built on existing expertise. Zenodo.
<http://doi.org/10.5281/zenodo.3471708>
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- [5] Digital skills for FAIR and Open Science - Report from the EOSC Executive Board Skills and Training Working Group
<https://doi.org/10.2777/59065>
- [6] Six Recommendations for implementation of FAIR practice by the FAIR in practice task force of the European open science cloud FAIR working group <https://op.europa.eu/en/publication-detail/-/publication/4630fa57-1348-11eb-9a54-01aa75ed71a1>
- [7] Openness Profile - Modelling research evaluation for open scholarship. Knowledge Exchange report
<https://repository.jisc.ac.uk/8340/1/Openness%20Profile%20Modelling%20research%20evaluation%20for%20open%20scholarship%20March%202021.pdf>
- [8] EDISON Data Science Framework: Part 1. Data Science Competence Framework (CF-DS) Release 2 <https://doi.org/10.5281/zenodo.1044346>

Questions?



Thanks!