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Presentation also by
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25 May 2020
e-IRG Workshop, May 2020
About the Working Group

• Started January 2020
• 38 members from 24 countries
• Representation from universities, data centers, libraries, ministries, infrastructures, policy makers, education/learning
• Members experience in both data and ICT
Objective: Provide a framework for a sustainable training infrastructure for EOSC

**SKILLS**
- Competences

**TRAINING**
- Capabilities

- Organisational culture change and service development
- Capabilities for trainers, "research data stewards" and service providers
4 task forces

01 EOSC minimal skills

02 Options for organisational models for competence centers

03 EOSC in national strategies for digital skills

04 Specifications for training catalogue(s)
Our results - Timeline

• **Q3 2020**
  - Minimum skill set for EOSC
  - Specifications for training catalogue(s)
  - Options for organisational models for competence centers (regional, thematic, EU levels) and their coordination

• **Q4 2020**
  - EOSC MVP for training and sustainability model
  - Recommendations for EOSC skills/training in national digital skills policies/strategies

e-IRG workshop, May 2020
01 - EOSC Minimal Skills

Establish a **skills development framework**

Identify and prioritize open science and digital skill sets in EOSC for

1. researchers - open science and RDM practices
2. service providers - providing their services to EOSC
3. policy makers - how to align with open science and data policies
Building blocks

1. Improve visibility of the “EOSC user ecosystem”, with specific training needs
Map existing skills and competences frameworks (e.g. FAIR4S, EDISON, DigComp, ODI)

2. Identify and prioritize open science and digital skill sets for EOSC for researchers - service providers - policy makers

3. A study to frame digital skills required in EOSC

4. Study certification mechanisms fit for EOSC (?)
Data Steward
Contributes with FAIR data to EOSC through EOSC services

EOSC Enabler
Consumes EOSC Services & designs and coordinates Discipline-spec. services

Researcher
Consumes, processes, deposits & provides data through Discipline-specific services

Citizen
Consumes, processes or provides data through simplified services

Policy Maker
Consumes, processes & provides data through Discipline-specific services

Data Curator
Contributes with the preparation of data to be FAIR and compliant to EOSC principles.

Data Steward
Contributes with FAIR data to EOSC through EOSC services

Data RI Support Professional
Contributes with EOSC RI Resources and EOSC Core Services

Research Software Engineer
Consumes and contributes with EOSC Core & Exchange Services

Library & Inform. Sci.
Understanding Data

ICT-Specific
Developing Software

Data Sci. Data Analytics
Consumes Data and EOSC services and Contributes with Data Analytic Services.

Discipline Specific
Conducting Research

General Public
Data Steward
Contributes with FAIR data to EOSC through EOSC services

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v.1 credits to Ignacio Blanquer
Competence centers: What are they? What are they key elements (functions/roles)? How can they be organized? Coordinated?

Emphasis on plural

- Not a centralized (one) body - coordination, federation of competence centers, EOSC compatibility

Target audiences: professional groups that support researchers in stewardship of research outputs, EOSC-service providers, trainers, researchers (EOSC-users)...
Building blocks

- Existing organizational models, what works & what doesn’t
- 3 levels: Research Infrastructures, national & institutional
- Provide options for MS/AC to implement training programmes for EOSC (short-term, mid-term, long-term)
- Recommend coordination levels in EOSC
Key functionalities adapted from FAIRsFAIR D6.1 report

Training and catalogues of training resources - e.g. ARDC, LIBER, Research Data Netherlands; PARTHENOS, GOBLET, PRACE, ELIXIR TeSS, CESSDA

Data Services - e.g. Norway TSD & Nettskjema, DANS, DARIAH, CESSDA, ELIXIR, EOSC Hub, EOSC Marketplace

Guidance resources & advisory services - e.g. DCC, DANS, forschungsdaten.info, Research Data Netherlands, OpenAIRE

Catalogues of resources, services or policies - e.g. EOSC Hub, JISC RDM Toolkit, PRACE, LIBER, FAIRsharing, DARIAH

Standards - e.g. OpenAIRE, ARDC, FAIRplus, FAIRsharing, Enabling FAIR Data, CESSDA, Goblet, CLARIN, DARIAH

→ What we have now and what we should have
How skills EOSC development and training fits in wider national policies and strategies

- EOSC skills: fair data & data intensive science
- EU Digital Skills Agenda – integral component of digital workforce

High level strategic report:
1. Develop the scope – who we target, for what
2. Commission a study – guide, disseminate, communicate
3. Deliver templates for national strategy
Relevance with

**Strategy:** EC agenda on Digital Skills and Jobs


**Funding:** Digital Europe programme


**Implementation:** Digital Skills and Jobs Coalition

... brings together Member States, companies, social partners, non-profit organisations and education providers, who take action to tackle the lack of digital skills in Europe.

Building blocks

Why – The landscape and connection

What – Skills needed

Who - Actors

What - Career perspectives

How – Structures

How - Costs/funding

How - Learning environments

How - Coordination / Governance
Skills and training in SRIA
SRIA - Priorities

Priority 1: Developing the next generation of data/EOSC professionals

Priority 2: Educating students and researchers

Priority 3: EOSC becoming a trusted and long-lasting knowledge hub of learning and training materials

Priority 4: Developing an EOSC leadership programme to foster the right policy environment for skills and training
Thank you.

Questions?