

EOSC Executive Board Working Group on Skills & Training

<https://www.eoscsecretariat.eu/working-groups/skills-training-working-group>

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Presentation also by

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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

TRAINING


Organisational culture change and service development

Competences

Capabilities for trainers, “research data stewards” and service providers

Capabilities


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

01 - EOSC Minimal Skills

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 (?)


-  ICT-Specific
Developing Software
-  Library & inform. Sci.
Understanding Data
-  Discipline Specific
Conducting Research
-  General Public

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




v.1 credits to Ignacio Blanquer


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




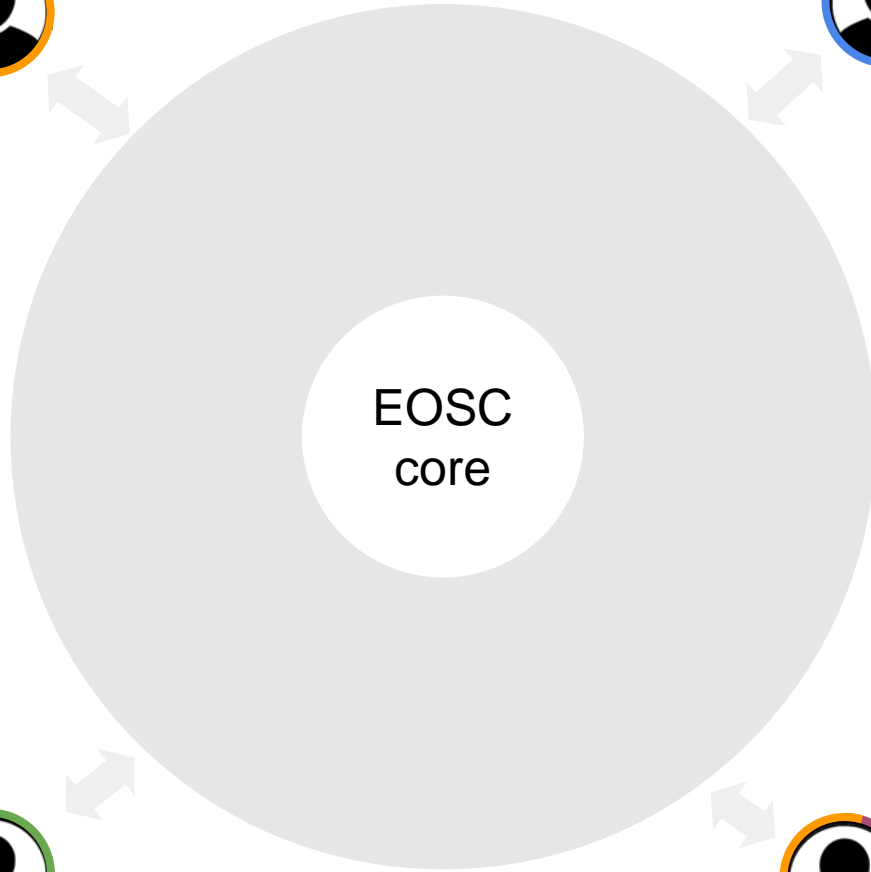
Citizen
Consumes, processes or provides data through simplified services




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




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

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




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




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

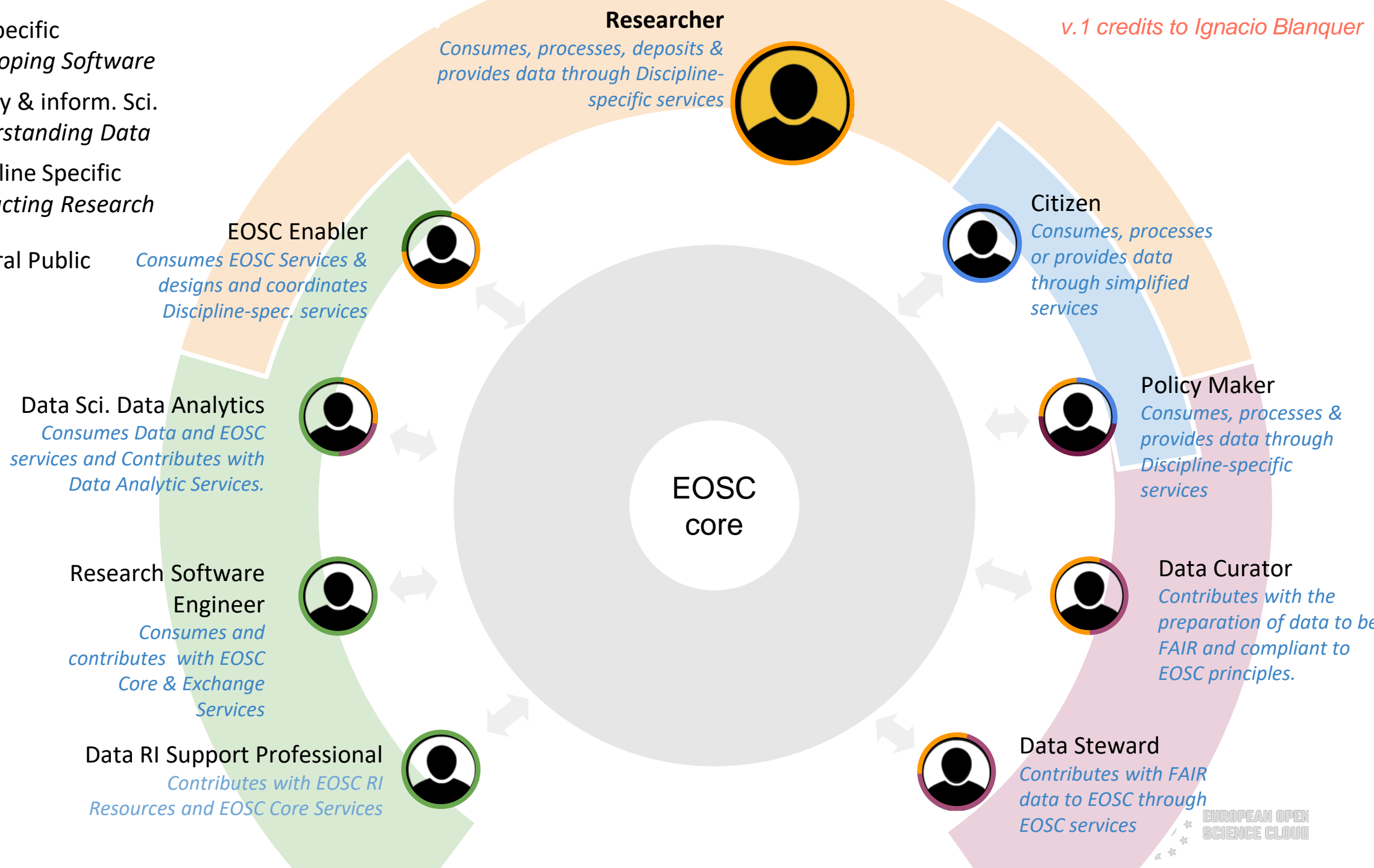


Data Steward
Contributes with FAIR data to EOSC through EOSC services



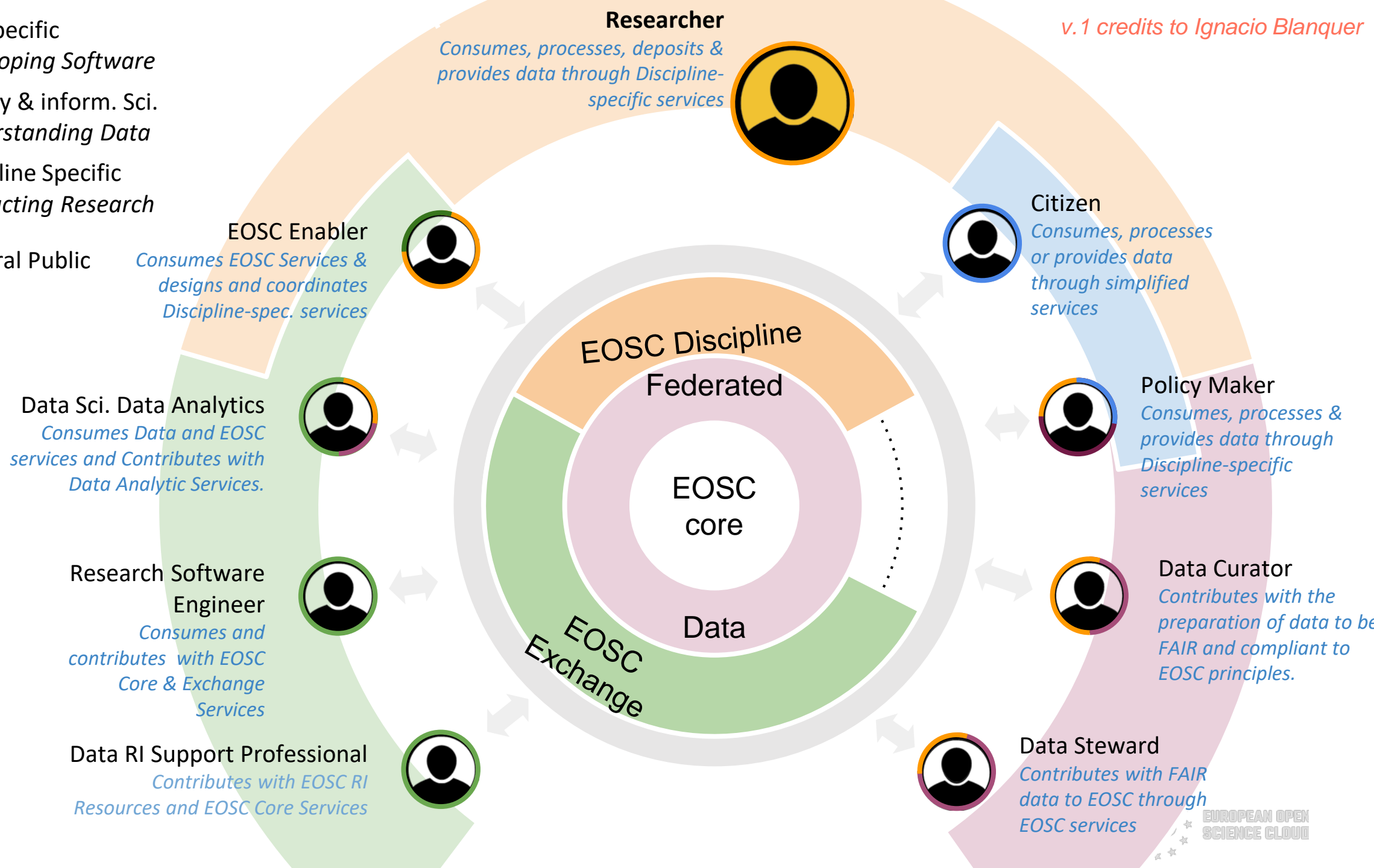
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02 – Organizational models for competence centers

02



Options for
organisational
models for
**competence
centers**

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'
- 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**

03 – National Strategy

03



EOSC in
national
strategies for
digital skills

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

<https://ec.europa.eu/digital-single-market/en/policies/digital-skills>

Funding: Digital Europe programme

<https://ec.europa.eu/digital-single-market/en/news/digital-europe-programme-proposed-eu92-billion-funding-2021-2027>

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.

<https://ec.europa.eu/digital-single-market/en/digital-skills-jobs-coalition>

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?

