



EOSC and its Value for a University

Karel Luyben

President EOSC Association

Shaping data spaces in Germany and Europe
Rfii, conference, 24/25 April 2023, Hanover



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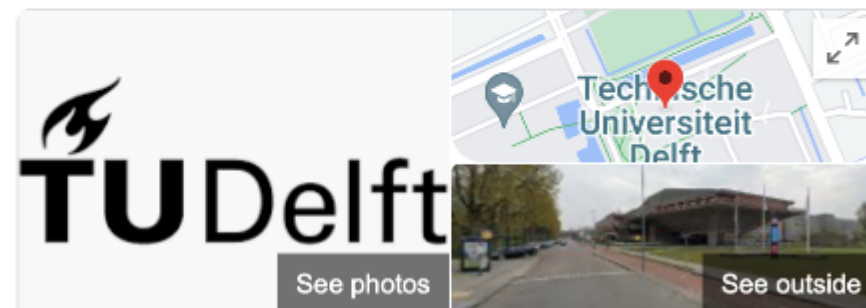
Over TU Delft

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Delft University of Technology (TU Delft)

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Research institution in Delft, Netherlands

Delft University of Technology, also known as TU Delft, is the oldest and largest Dutch public technical university, located in Delft, Netherlands. As of 2022 it is ranked by QS World University Rankings among the top 10 engineering and technology universities in the world. [Wikipedia](#)

Address: Mekelweg 5, 2628 CD Delft, Netherlands

Phone: [+31 15 278 9111](tel:+31152789111)

Undergraduate tuition and fees: 2,060 EUR, International tuition 10,384 EUR (2018 – 19)

Total enrollment: 24,703 (2018)



Schloss Herrenhausen

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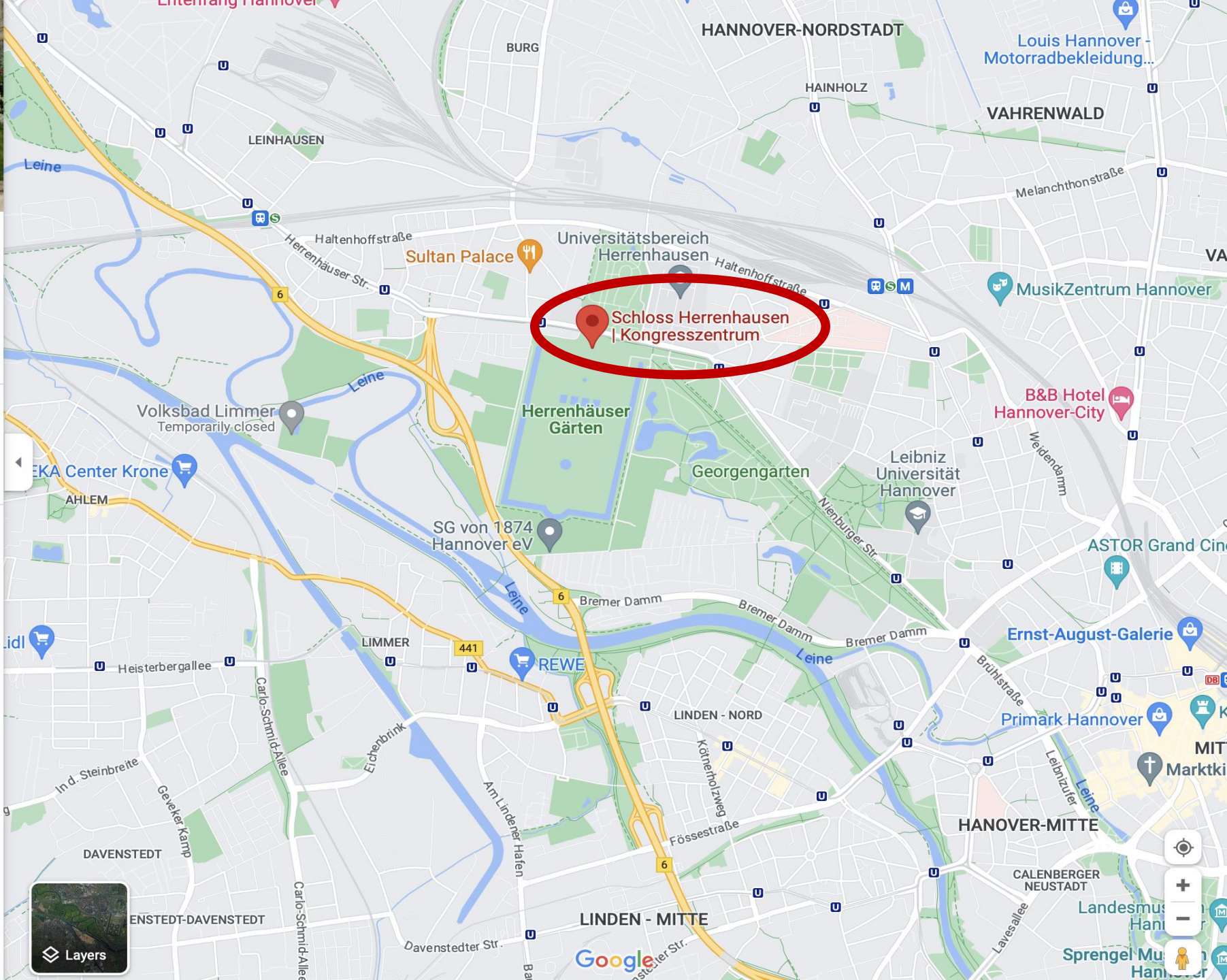
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The effect of drying temperature on the properties of gelatin ...

by J Tkaczewska · 2019 · Cited by 2 — The influence of **drying** temperature on the characteristics and gel properties of **gelatine** from *Cyprinus carpio* L. skin was studied.

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(PDF) Optimization of fish gelatin drying processes and ...

This study aims to optimize **drying** methods such as convection hot air alone and combined with infrared radiation to obtain **gelatin** from acoupa weakfish skin by ...

Optimization of fish gelatin drying processes and characterization of its properties

Author: Cleidiane da Silva Araújo et al

Publication: Scientific Reports

Publisher: Springer Nature

Date: Oct 19, 2021

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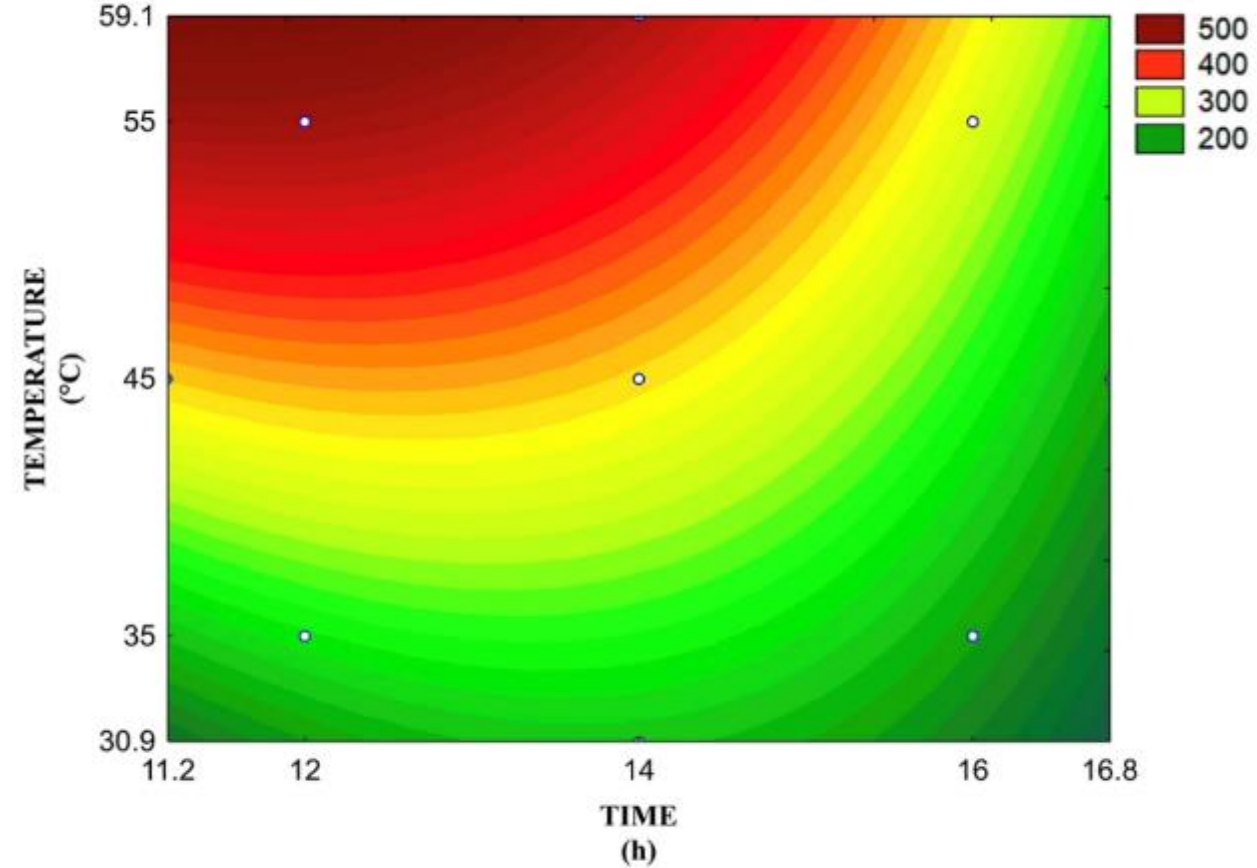
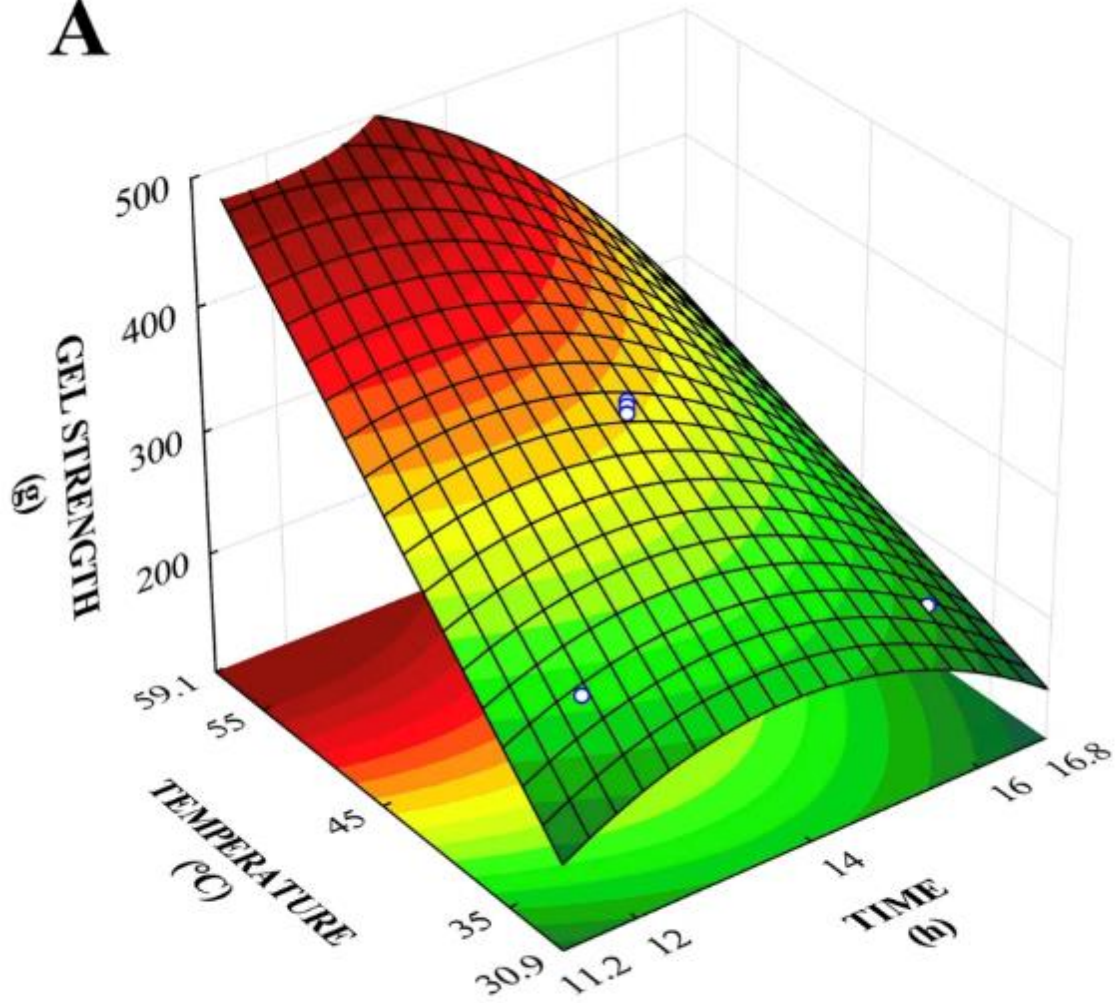
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Supplementary Information

[Supplementary Tables.](#)

Wordfile: 41598_2021_99085_MOESM1_ESM.docx

Independent variables			Experimental results			Predicted results		
Assays	Time (h)	Temperature (°C)	Gel strength (g)	Moisture (%)	Water activity	Gel strength (g)	Moisture (%)	Water activity
1	-1 (12)	-1 (35)	247.0	10.45	0.376	247.2	10.73	0.380
2	1 (16)	-1 (35)	203.0	10.33	0.370	2026	10.44	0.377
3	-1 (12)	1 (55)	461.6	6.74	0.168	479.7	7.18	0.189
4	1 (16)	1 (55)	299.7	6.55	0.165	317.3	6.79	0.189
5	0 (14)	-1.41(30.8)	219.2	10.85	0.375	223.0	10.67	0.373
6	0 (14)	1.41(59.1)	490.0	5.94	0.130	468.4	5.58	0.104
7	-1.41(11.2)	0 (45)	360.2	10.09	0.343	350.9	9.69	0.331
8	1.41(16.8)	0 (45)	213.0	9.34	0.345	204.5	9.21	0.329
9	0 (14)	0 (45)	350.6	8.96	0.276	345.8	9.17	0.287
10	0 (14)	0 (45)	346.5	9.39	0.289	345.8	9.17	0.287
11	0 (14)	0 (45)	340.3	9.15	0.297	345.8	9.17	0.287

A

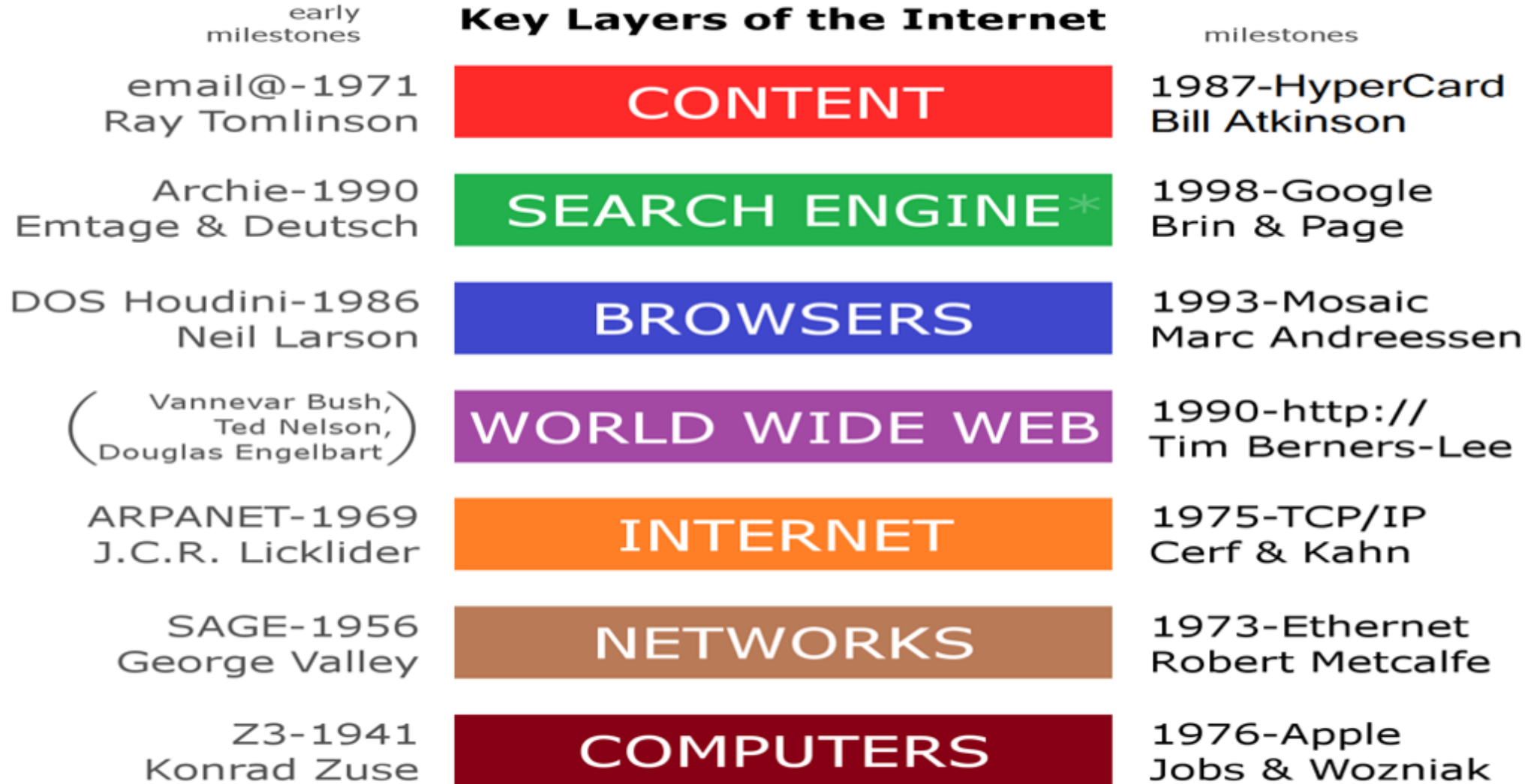
Wouldn't it be great if we all could find a relevant dataset for our work as easy through the 'Web of FAIR data' as we can find many things through an adequate search engine?

“A web of scientific insight”

- **Web of FAIR Data and related Services**
- **Federation of relevant existing and future data sources**
- **Virtual space where science producers and consumers come together**
- **An open-ended range of content and services**
- **Based on the FAIR principles**
- **Meeting all European data requirements**
- **In interaction with other regions of the world**



eosc Model of the World Wide Web (Wikipedia)



 EOSC – additionality to the web of FAIR data

EUROPEAN OPEN SCIENCE CLOUD

WEB OF FAIR DATA

WORLD WIDE WEB

INTERNET

NETWORKS

COMPUTERS

EOSC is a data-infrastructure and could be seen as a twin sister (or brother) of the European e-infrastructure organisations.

The last offering the store, compute and connect services used by EOSC to offer the servicing of data and creating interoperability. The combination forms the EOSC-ecosystem (yin / yang).



Position of EOSC according to the European Commission

Taken from EC slides



“**EOSC** is the basis for a science, research and innovation data space that will bring together data resulting from research and deployment programmes and will be connected and articulated with the sectoral data spaces”

(European Data Strategy, COM(2020) 66 final)

Requirements for EOSC to deliver

- **Relevant data**
- **Sufficiently rich metadata**
- **Search mechanism**
- **Software (often self made)**
- **Compute power (usually available)**
- **Storage (usually available)**
- **Access**
- **Automatic referencing**
-



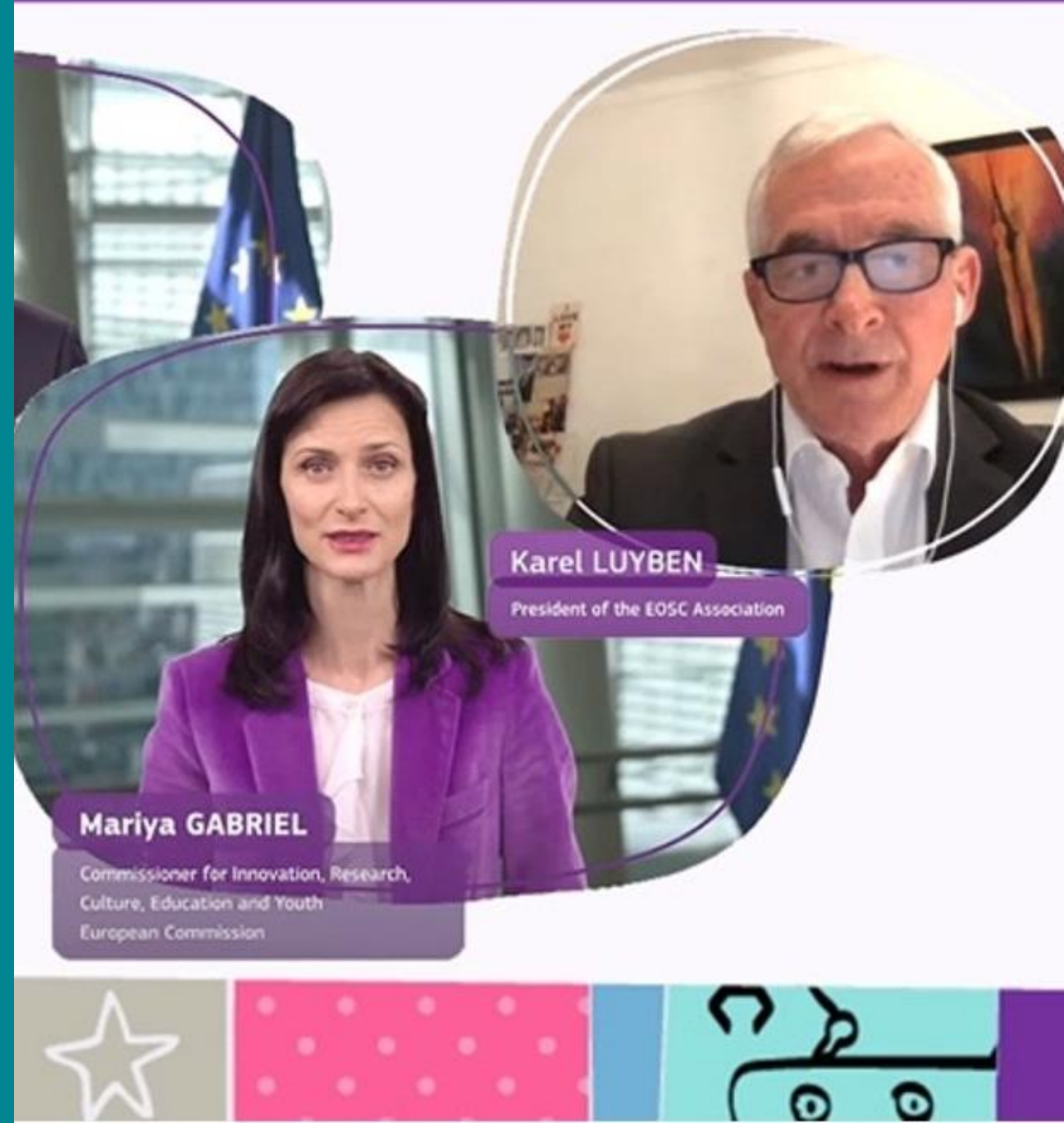
eosc EOOSC Association – the Voice of the Community

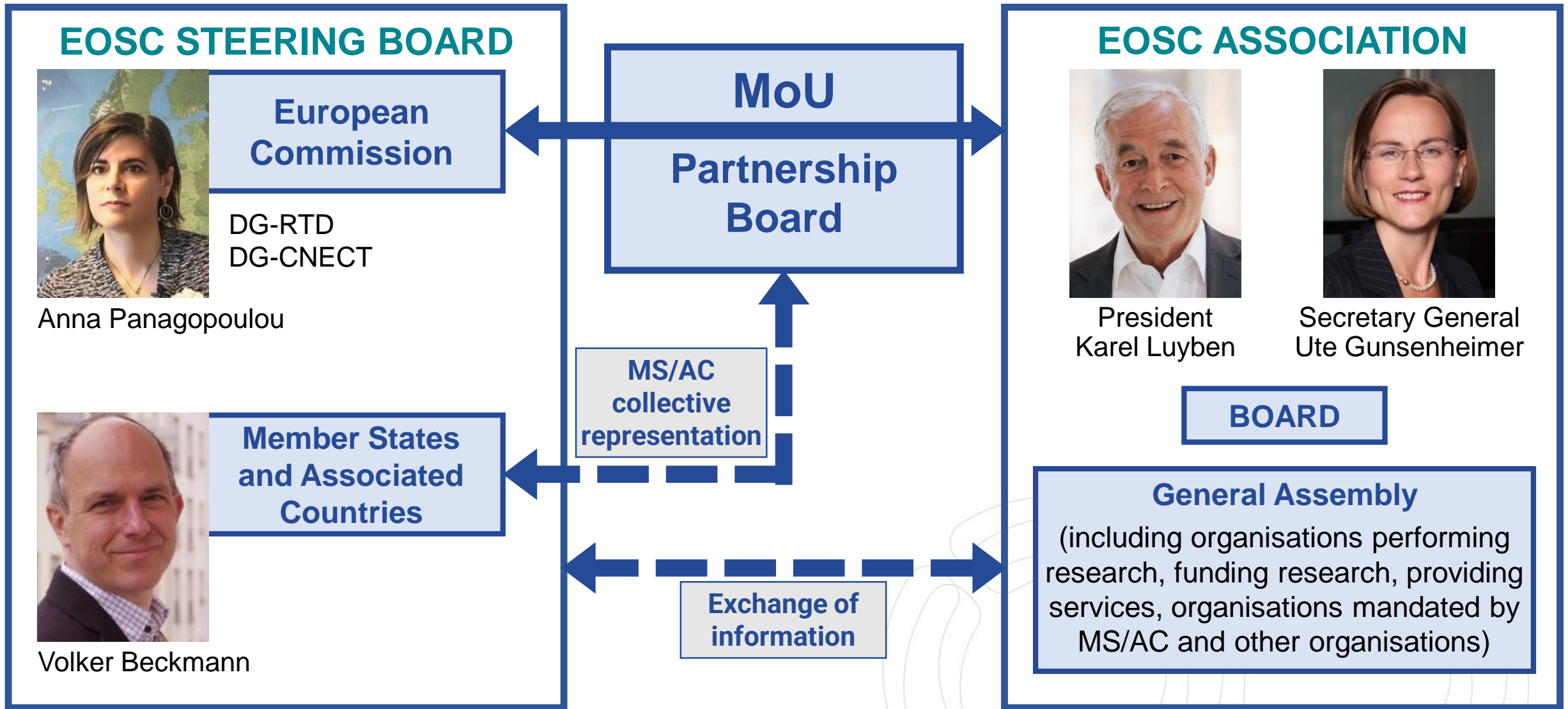
Next General Assembly #6, 22-23 May 2023



Horizon Europe co-programmed EOSC Partnership

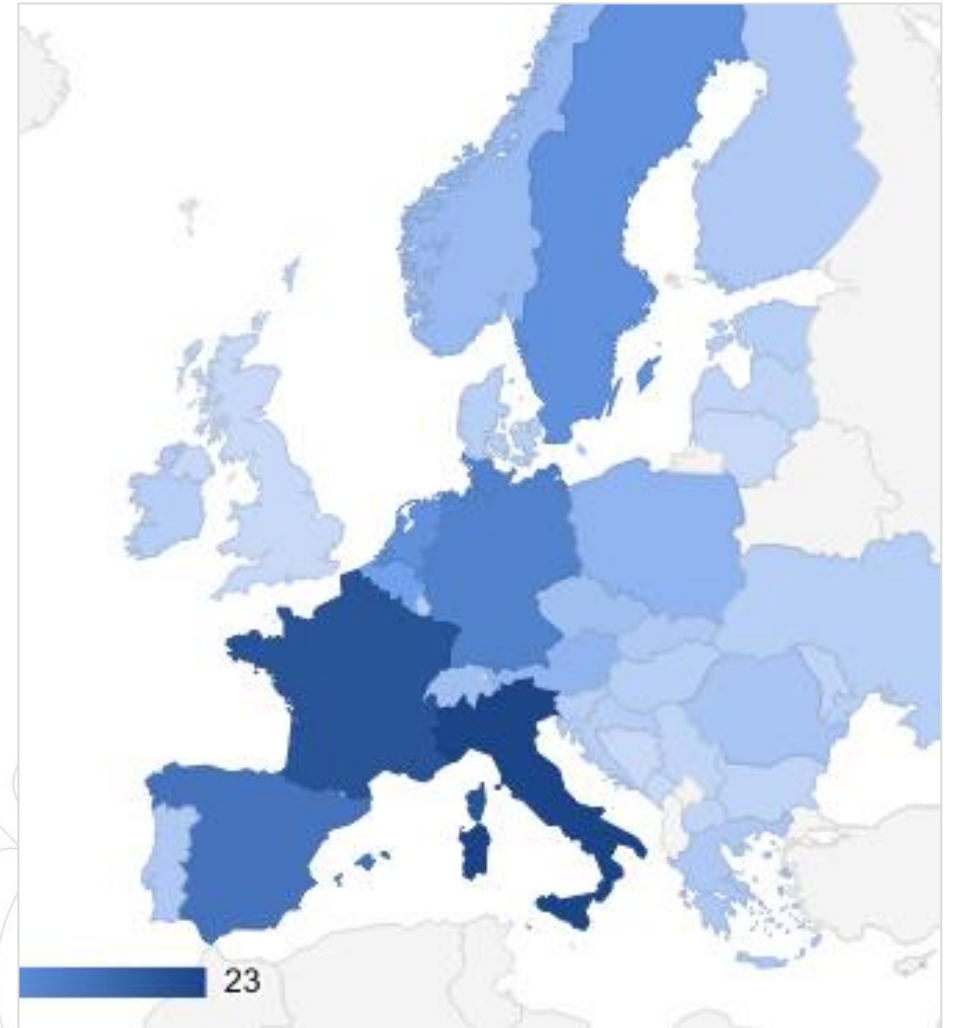
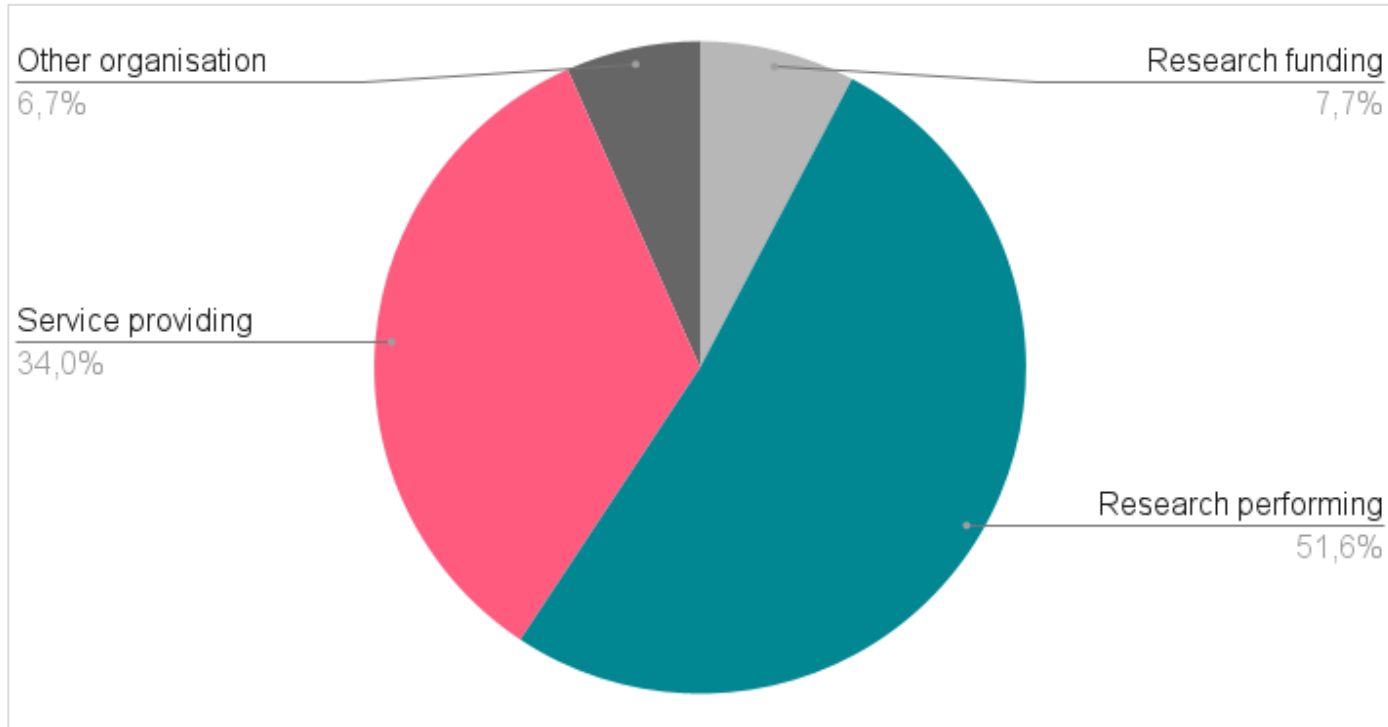
- Launched June 2021
- One billion euros commitment by the European Union and the EOSC Association





eosc 168 Members and 81 Observers

A strong memberbase



eosc What do we concretely aim for?

- Researchers performing publicly funded research make relevant results available, as openly as possible;
- Professional data stewards are available in research-performing organisations in Europe to support RDM for Open Science;
- Research data produced by publicly funded research in Europe is FAIR (by design);
- The EOSC Interoperability Framework supports a wide range of FAIR digital objects including data, software and other research artefacts;
- EOSC Federation is populated with a valuable corpus of interoperable data;
- EOSC (version x) is operational and provides a stable infrastructure, supporting the research process and helping to address societal challenges;
- The scope of EOSC is widened to serve the public and private sectors;
- EOSC is a valuable and valued resource to a wide range of users from the research and education, public and private sectors (including for-profit).

eosc Where do we stand?

- After an initial period of many projects without much convergence (2015-2020) we have to see that we get our aims sufficiently developed in the present period of convergence (2021-2026).
- For this it is essential that we get a Minimal Viable EOOSC (MVE / EOOSC-EU-node) operational asap and as good as possible aligned with work done by all the relevant communities (European, National and Institutional).



What is in it for universities – some advises?

- Realise that FAIR is the most important requirement
- Build from disciplines to multidisciplinary
- Get involved (like EUA, CESAER etc)
- Get started (“Instead of 20th PhD student hire a data steward”)
- Create ‘Data/Digital Competence Centres’
- Find data Champions
- It will only work if the culture can be changed

<https://www.tudelft.nl/en/open-science>

Keep on dreaming

If in 2040 50% of the **relevant** research data (data, publications and software) would be as **FAIR as possible**, my dream would come true!
 (world-wide 😊)

In other words: When I will be able to find the diffusion coefficient of water as function of the water concentration for the compositions of gelatine, then I will be able to predict the drying behaviour of the gelatine for different conditions in different scales of different drying equipment, using the computerprogram developed. Thus saving a whole lot of time in the development and less energy in the application.

Thanks EOSC!

Let's co-create EOSC





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THANKS

