delft university of technology

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TU Delft

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Results from tudelft.nl

Bachelors
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Masters
MSc Aerospace Engineering - MSc Computer Science - MSc Robotics

Opleidingen
Bachelors - Masters - Minors - PhD - Exchange - ...
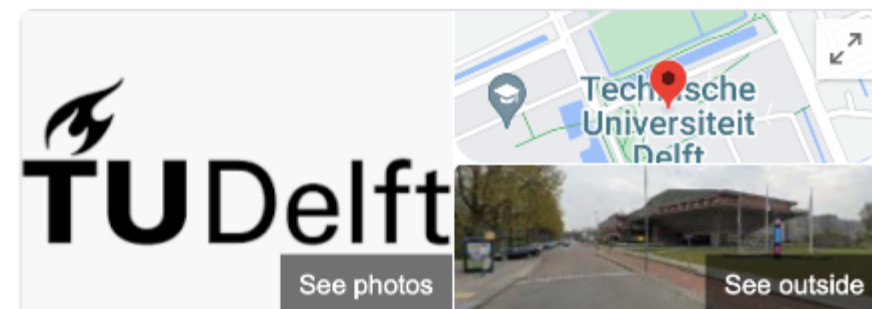
Over TU Delft
Faculteiten - Zoek medewerkers - Onze campus - ...

People also ask

Is it easy to get into Delft University of Technology?

Is Delft a good university?

TU Delft

See photos   See outside

Delft University of Technology (TU Delft)

Website | Directions | Save

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

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

Total enrollment: 24,703 (2018)

dataset on drying of gelatine ✕ 🔍

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About 270,000 results (0.51 seconds)

https://www.nature.com › scientific reports › articles   ⋮

Optimization of fish gelatin drying processes and ... - Nature

by C da Silva Araújo · 2021 — This study aims to optimize **drying** methods such as convection hot air alone and combined with infrared radiation to obtain **gelatin** from acoupa ...

https://www.agriculturejournals.cz › web › cjfs   ⋮

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.

https://www.researchgate.net › publication › 355401465_...   ⋮

(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 ...

Supplementary Information

Supplementary Tables.

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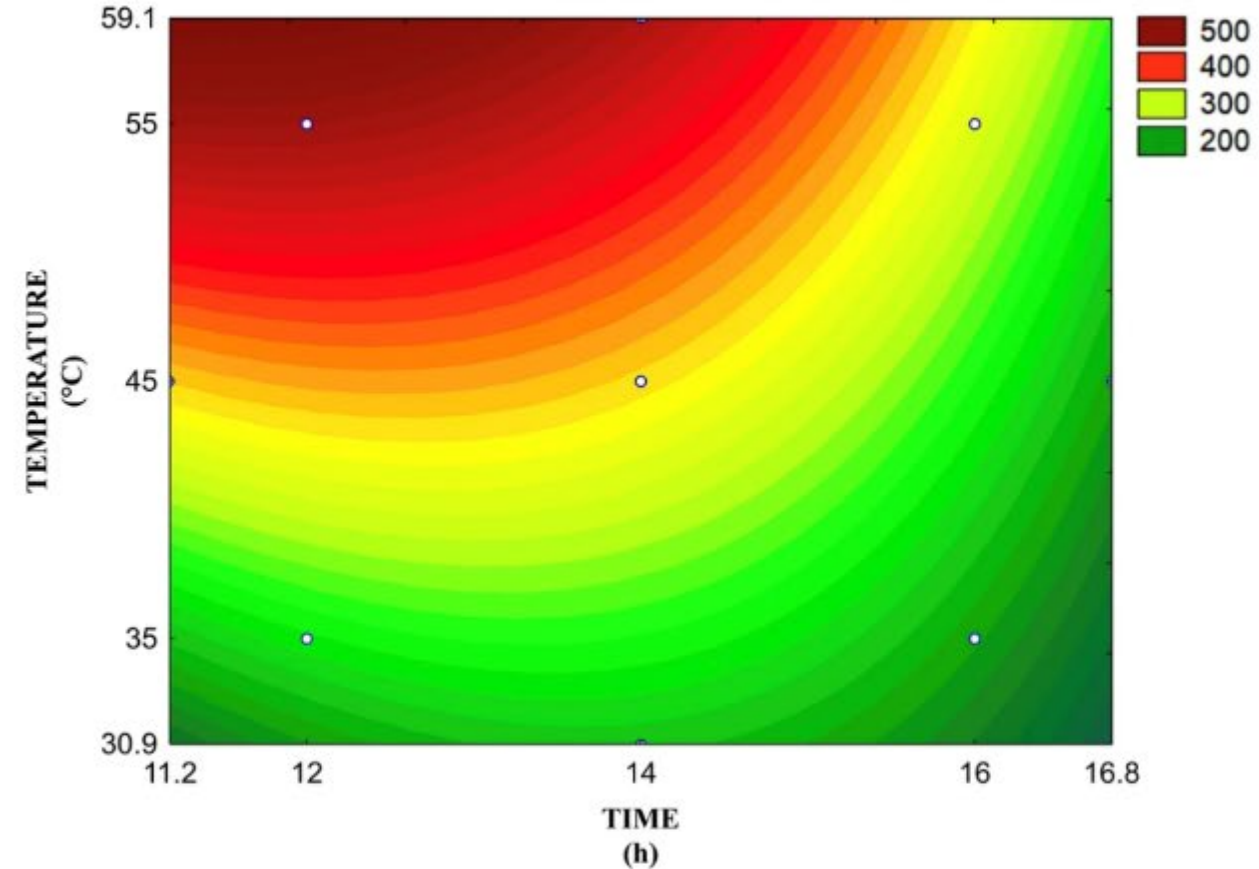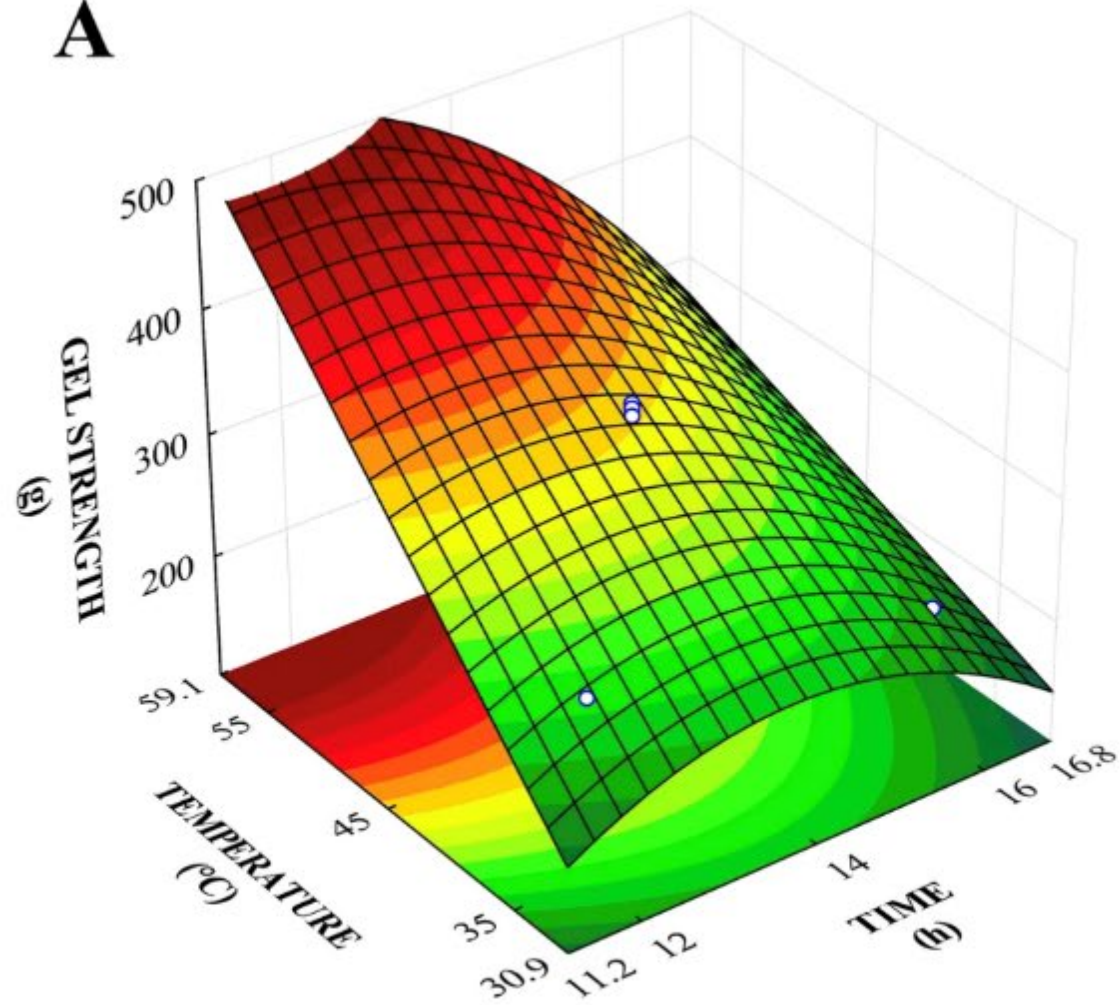
Wouldn't it be great if we all could find a relevant dataset for our work as easy through the 'Web of FAIR data' as we can find many things through an adequate search engine?

"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**

- **Meeting all European data requirements**

- **In interaction with other regions of the world**
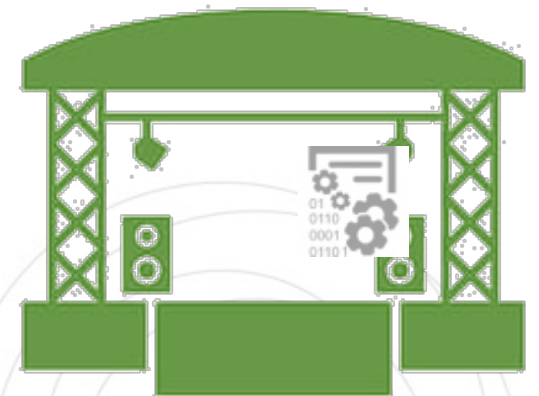
Guiding principles for EOSC

The overarching principle for developing EOSC is that research has to be at the centre of the EOSC initiative.

- **Multi-stakeholderism**
  EOSC will succeed if and only if it follows a multi-stakeholder approach;
- **Openness**
  EOSC will ensure research artefacts be 'as open as possible, as restricted as necessary';
- **FAIR principles**
  EOSC research artefacts need to be findable, accessible, interoperable and reusable;
- **Federation of infrastructures**
  EOSC will federate existing and upcoming data- and e-infrastructures;
- **Machine-actionable**
  EOSC will strike the right balance between machines and people in delivering the services that will serve the needs of European scientists.

Important 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
- …….

Position of EOSC according to the European Commission

Taken from EC slides

Health | Industrial & Manufacturing | Agriculture | Finance | Mobility | Green Deal | Energy | Public Administration | Skills

EOSC: a crosscutting data space for Research and Innovation

"**EOSC** is the basis for a science, research and innovation data space that will bring together data resulting for research and deployment programmes and will be connected and articulated with the sectoral data spaces"
(European Data Strategy, COM(2020) 66 final)

EOSC on a global stage

- **Service providers from third countries can participate in EOSC but have to adhere to the EOSC Rules of Participation and applicable legislation**
- **EOSC will work with other regional initiatives towards common goals for Open Science, driving global convergence on standards in support of the implementation of an open science commons**

Grand Challenges for developing EOSC

Technical

- **Create in the long run truly broad multidisciplinary interoperability**

- **For the short term this means: optimal Authentication and Authorisation Infrastructure (AAI); stepwise growing interoperability**

Social

- **Getting the noses in the same direction**

- **Combining institutional, local and regional initiatives towards a true Open Science Commons with global convergence on standards in support of the implementation**

History of a partnership
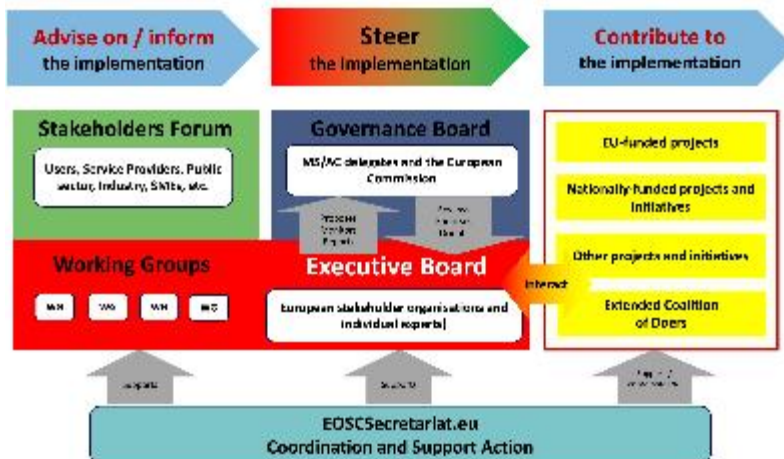
Initial EOSC Governance

EOSC Association AISBL

Co-programmed EOSC Partnership

2019-2020

29-07-2020

23-06-2021

EOSC Partnership

EOSC STEERING BOARD

European Commission

DG-RTD
DG-CNECT

Anna Panagopoulou

Member States and Associated Countries

Volker Beckmann

MoU Partnership Board

MS/AC collective representation

Exchange of information

Tripartite Collaboration

EOSC ASSOCIATION

President Karel Luyben

Secretary General Ute Gunsenheimer

BOARD

General Assembly

(including organisations performing research, funding research, providing services, organisations mandated by MS/AC and other organisations)

Content of the MoU (2021 – 2030)

- **The MoU is established between the Partners**
  - The EU represented by the Commission
  - The EOSC Association ("Partners other than the Union"), including its constituent entities (members)
- **The MoU is a contractual arrangement, not legally binding**
- **Scope & objectives**
  - To contribute to the objectives defined in the SRIA incl. the KPIs to measure progress
  - Expected financial and in-kind commitments by the partners (490 MEUR + 500 MEUR)
- **Governance: Partnership Board**
  - Composition: Representatives appointed by the Partners other than the Union, Commission officials and Representatives of the Steering Board
- **Commitments of the EC**
  - To duly take into account the input and advice from EOSC-A when defining call topics relative to the scope and objectives of the SRIA
- **Commitments of EOSC-A**
  - In-kind contributions
  - Monitoring and Reporting

SRIA and MAR

Strategic Research and Innovation Agenda

Open Science practices and skills are rewarded and taught, becoming the 'new normal'

Standards, tools and services allow researchers to find, access, reuse and combine results

Sustainable and federated infrastructures enable open sharing of scientific results

Multi-annual roadmap sets priority activities and outcomes grouped by three implementation levels – European, National, Institutional

Three phases of MAR
- 2021-2022: development towards a functional federation of infrastructure
- **2023-2024: expansion to production that generates added value**
- 2025-2027: expansion to develop impact from Open Science

Agreed priorities for 2023 - 2024

Technical

- **EOSC-Core creation and onboarding procedures**
- **Interoperability and data search**
- **Data quality**

Involvement

- **Member State engagement**
- **Funding / resourcing models**
- **Skills and the recognition and rewards**

EOSC Association

The Purpose of EOSC-A

Incorporation, 29 July 2020

(1) to provide a single voice for the advocay and representation of the boarder EOSC stakeholder community,

(2) to promote the alignment of European Union research policy and priorities with activities coordinated by the Association;

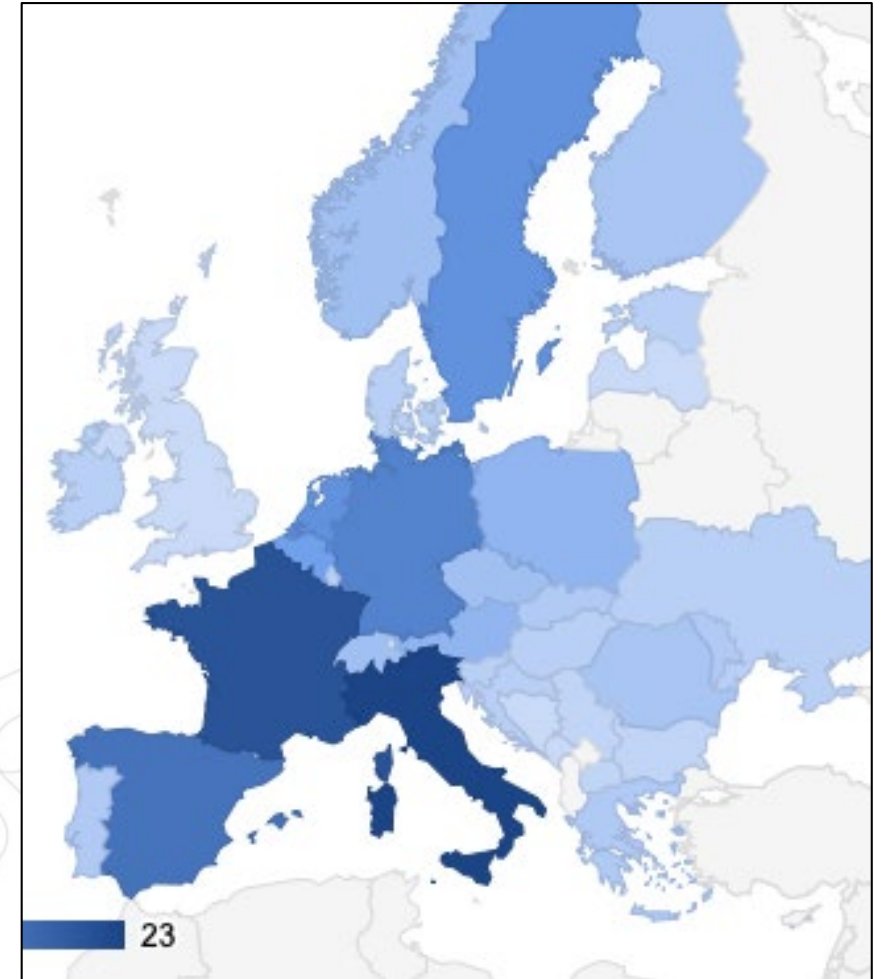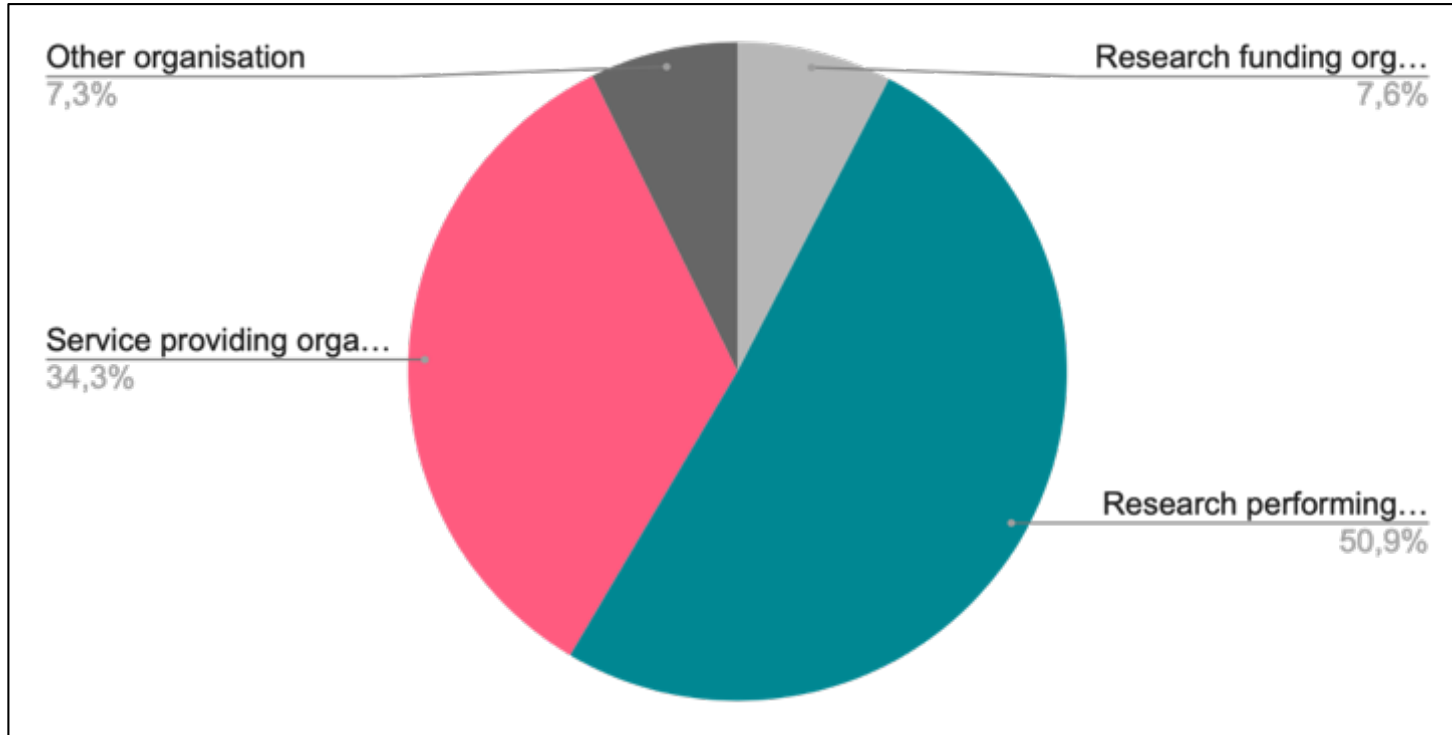(3) to enable seamless access to data through interoperable services that address the entire research data life cycle.

Tasks for EOSC Association to see to:

- Develop and govern federating core
- Manage the AAI
- Manage PID policies
- Manage compliance framework
- Manage trusted certification

- Outreach to stakeholders
- Monitor services and transactions
- Manage the 'EOSC' trademark(s)
- Contribute to Horizon EU policy

163 Members and 78 Observers

A strong memberbase

Other organisation
7,3%

Research funding org…
7,6%

Service providing orga…
34,3%

Research performing…
50,9%

23

![EOSC logo] # The Board of Directors

Nine Independent Individuals

Karel Luyben
President, 2021-22

Marialuisa Lavitrano
Vice-President, 2021-23

Suzanne Dumouchel
2021-23

Klaus Tochtermann
Treasurer, 2021-23

Sarah Jones
2021-22

Ignacio Blanquer
2021-22

Sara Garavelli
2022-24

Bob Jones
2022-24

Wilhelm Widmark
2022/24

EOSC-A Brain-Pool: 13 Task Forces

Over 400 volunteers

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
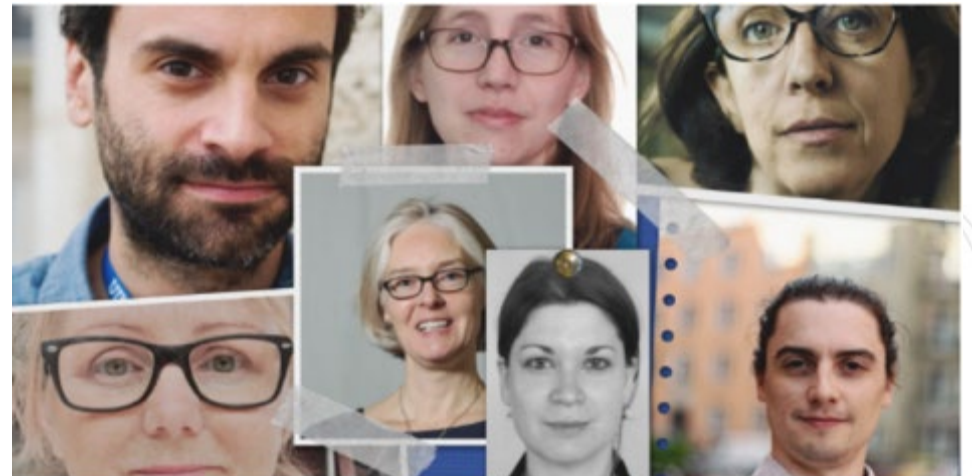
Metadata and data quality

- 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

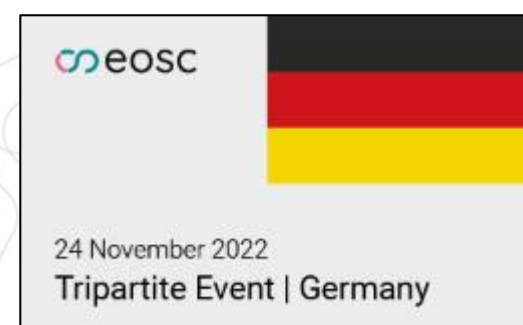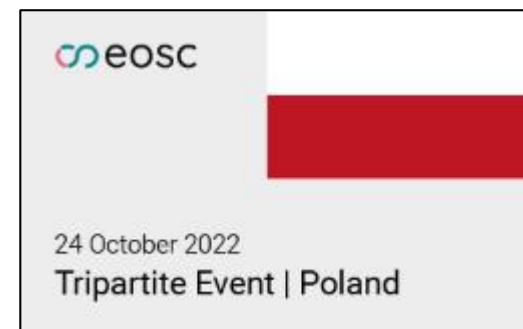- Financial sustainability
- Long-term data preservation

23

The EOSC Association Today

General Assembly #4, 24-25 May 2022

Tripartite Events

28 September 2022
Tripartite Event | Ireland

4 October 2022
**Tripartite Event |
Nordic & Baltic Countries**

6 October 2022
Tripartite Event | Greece

10 October 2022
**Spain and Portugal
EOSC Tripartite Event**

11 October 2022
Tripartite Event | Slovenia

24 October 2022
Tripartite Event | Poland

27 October 2022
Tripartite Event | Bulgaria

2 - 4 November 2022
Tripartite Event | Georgia

24 November 2022
Tripartite Event | Germany

EOSC interactions

- Members and Observers (161 + 78)
- Mandated Organisations (27)
- Task forces of ESOC Association (13)
- European Commission (490 M€ cash + 500 M€ in-kind)
- Member States and Associate Countries (EOSC Steering Board)
- INFRAEOSC HE-projects (9 >> 50?)
- Research Infrastructures and ESFRI
- Data Spaces in conception
- European Partnerships (5 >> 49)
- EUA, CESAER, LERU, ALLEA, LIBER, etcetera
- Cluster projects; regional projects

Establishing the EOSC Brand

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 ~~~~~ clicks the diffusion coëfficient of water as function of t~~~~~ ~~~~~ater concentration for the compositions of gelatine ~~~~~, then I will be able to predict the drying behaviour of ~~~~~er different conditions in different scales of differen~~~~~ equipment, using the computerprogram~~~~~ped. Thus saving a whole lot of time in the development and l~~~~~ or energy in the application.

Thanks EOSC!

Let's co-create EOSC

co eosc

EOSC Association AISBL

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Reg. number: 0755 723 931
VAT number: BE0755 723 931

THANKS