



**EUROPEAN OPEN  
SCIENCE CLOUD**

# The voice of the EOSC stakeholders Co-programmed Partnership

**Karel Luyben**  
President EOSC Association

# Content

- **Dream**
- **History of a partnership**
- **Present: Co-programmed EOSC Partnership**
- **Future implementation of EOSC**
- **Keep on dreaming**

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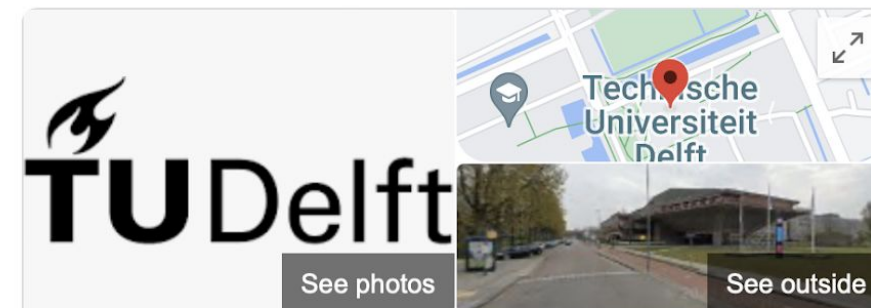
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## Delft University of Technology (TU Delft)

Website

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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

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

**Total enrollment:** 24,703 (2018)





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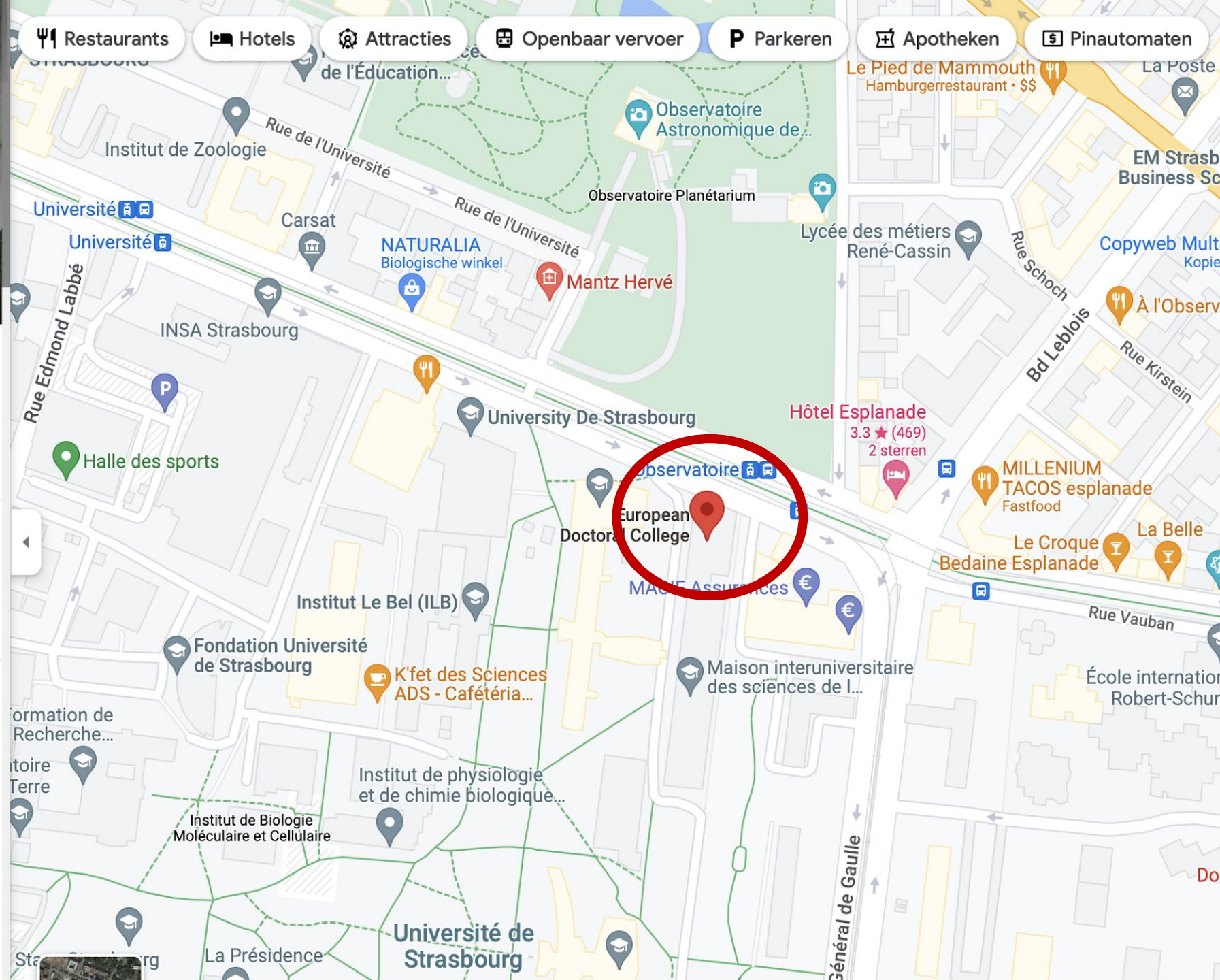
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## Optimization of fish gelatin drying processes and ... - Nature

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.

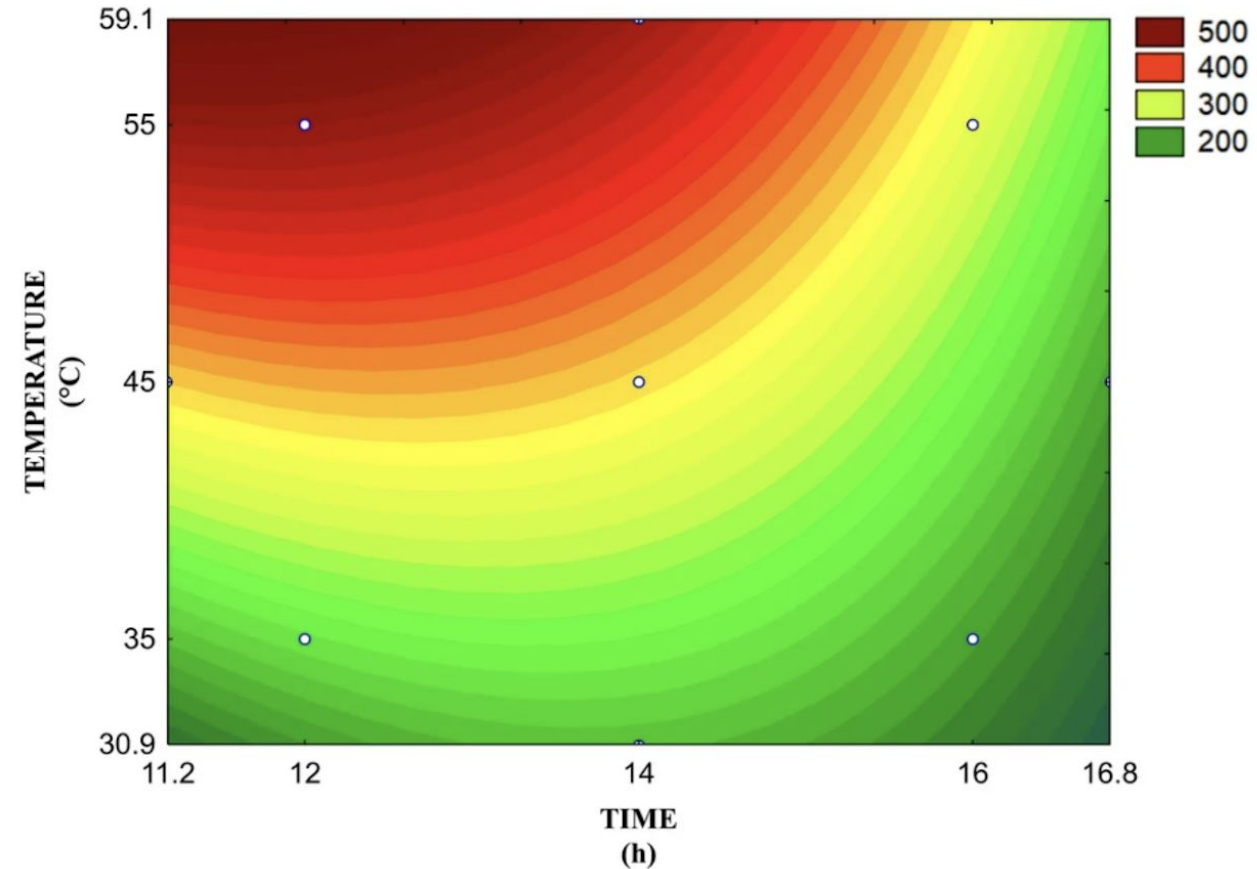
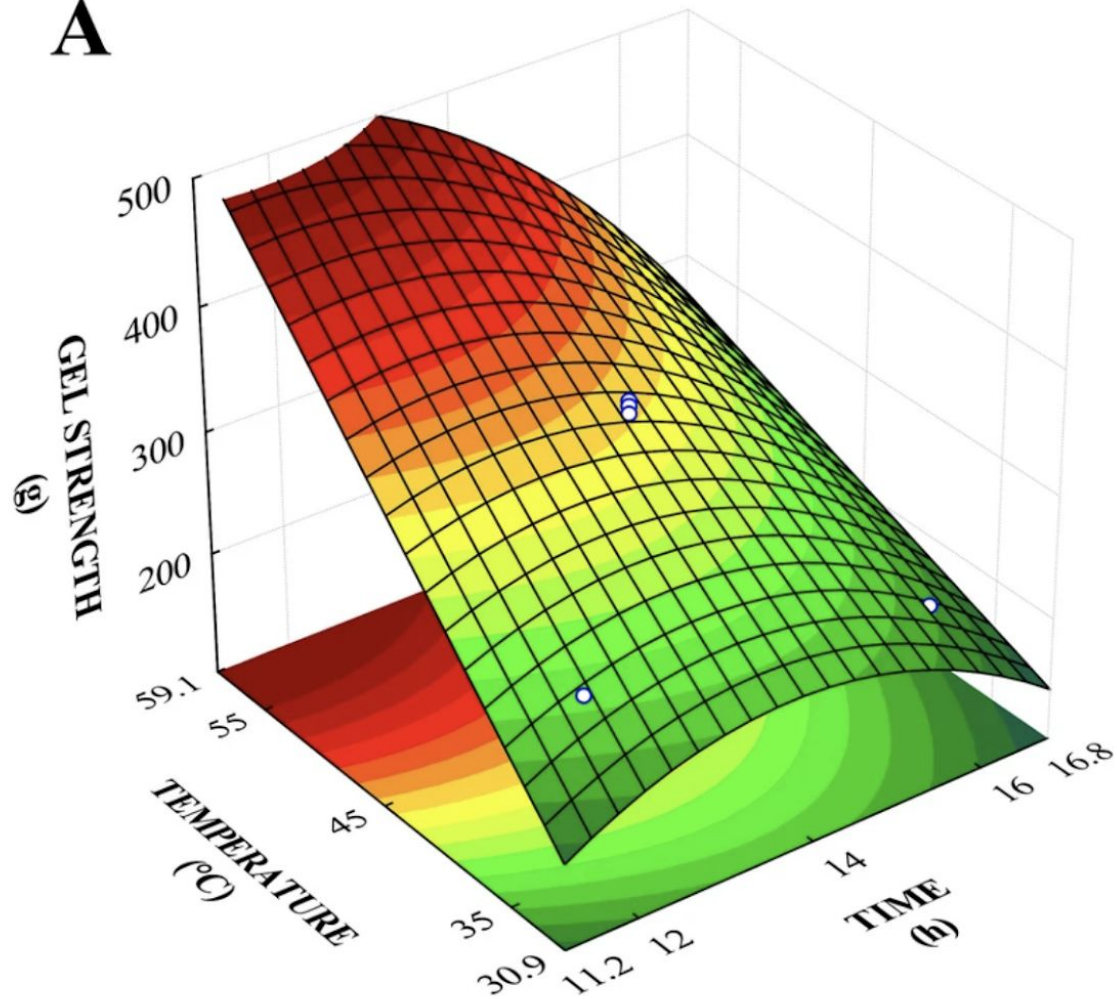
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## (PDF) Optimization of fish gelatin drying processes and ...

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 ...

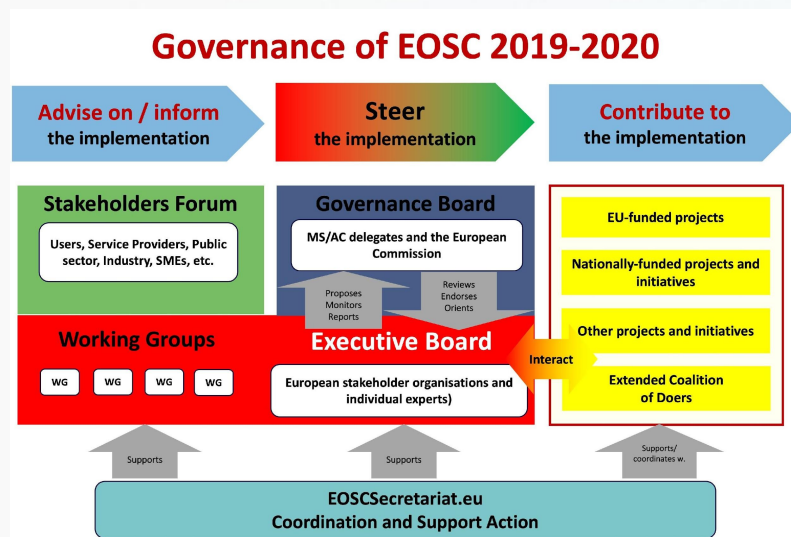


A



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?

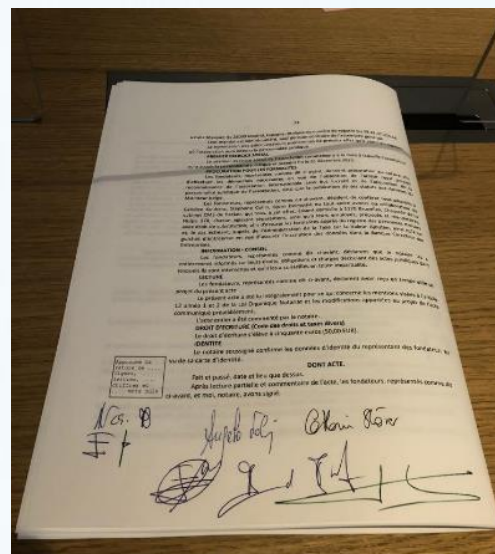
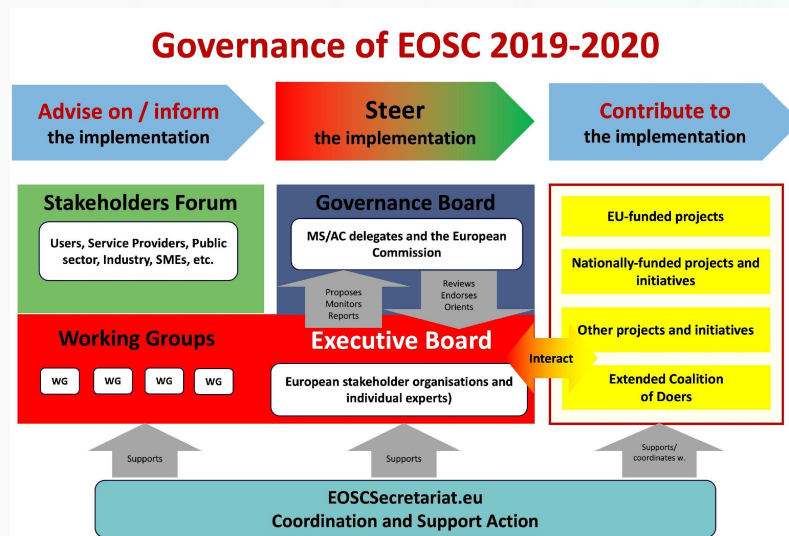
# History of a partnership



**Initial  
EOSC Governance**

**2019-2020**

# History of a partnership



**Initial  
EOSC Governance**

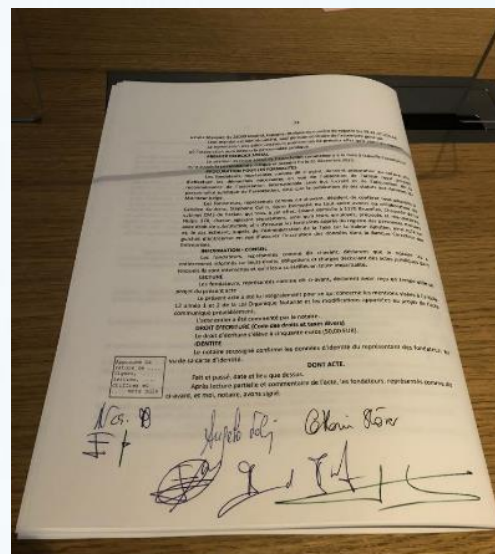
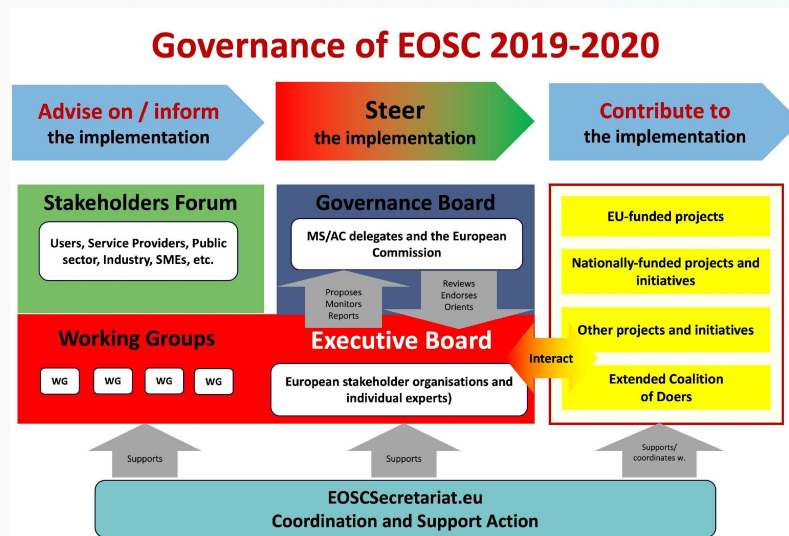
**2019-2020**

**EOSC  
Association AISBL**

**29-07-2020**



# History of a partnership



**Initial  
EOSC Governance**

**2019-2020**

**EOSC  
Association AISBL**

**29-07-2020**

**Co-programmed  
EOSC Partnership**

**23-06-2021**

# Present: Co-programmed EOSC Partnership

## Mission of EOSC Association AISBL

- To provide a single voice for advocacy and representation for the broader EOSC stakeholder community in Europe
- To promote the alignment of European Union research policy and priorities with activities coordinated by the Association (SRIA)
- To ultimately enable seamless access to data through interoperable services that address the entire research data life cycle, from discovery to storage, management, analysis and re-use across borders and scientific disciplines (*the dream*)

# Content of the MoU (I)

- ☐ The MoU is established between the Partners
  - ✓ The EU represented by the Commission
  - ✓ The EOSC Association, including its constituent entities (members)
- ☐ The MoU is a contractual arrangement, not legally binding
- ☐ Scope & objectives
  - ✓ Expected financial and in-kind commitments by the partners
  - ✓ KPI's
- ☐ Governance: Partnership Board
  - ✓ Composition: Representatives appointed by the Partners other than the Union, Commission officials and Representatives of the Steering Board
  - ✓ Rules of Procedure of the Partnership Board have been drafted based on a proposal by the Commission
- ☐ Duration: from signature date until 31.12.2030



# Content of the MoU (II)

- ☐ Activities and commitments of the Commission
  - ✓ Take into account the input and advice from the Partners other than the Union when identifying & defining call topics for R&I activities to be included in the Work Programmes
  - ✓ Contribute through the Work Programmes
- ☐ Activities and commitments of the Partners other than the Union
  - ✓ Provide input and advice to the Commission
  - ✓ In-kind contributions in Horizon Europe actions
  - ✓ In-kind contributions in additional activities
  - ✓ Investments in operational activities
- ☐ Openness and Transparency, Dissemination, Coordination
- ☐ Monitoring and reporting
  - ✓ The partners will set up and implement an effective reporting and monitoring system, using
  - ✓ A list of Key Performance Indicators

# Future implementation of EOSC

- An **open, community driven initiative** – supported by governments – where key players in the scientific and data science community take on roles to further the goals of science, as with other open-source initiatives;
- A **confederated system** with many independent operational providers, who align with other federated service providers according to rules and established standards;
- A **centrally coordinated, but still distributed system**, with sub elements delivered by operational providers based on clear specifications, led by European, national and regional infrastructures;
- A **centrally operated single entity**, with central management, funding and procured international infrastructure, in addition to national/regional infrastructures.

# 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 water concentration for the compositions of gels used in, then I will be able to predict the drying behavior of material under different conditions in different scale groups of drying equipment, using the computerprogram developed. Thus saving a whole lot of time in the development and a lot of energy in the application.

**Thanks EOSC!**





**Let's co-create EOSC**



**EUROPEAN OPEN  
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# Thanks



@eoscassociation



info@eosc.eu



# 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.





# 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 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 delivering 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 local and regional initiatives towards a true Open Science Commons with global convergence on standards in support of the implementation