

# EOSC National Tri-partite Event

28th Sep 2022

Dublin



An Roinn Breisoideachais agus Ardoideachais,  
Taighde, Nuálaíochta agus Eolaíochta  
Department of Further and Higher Education,  
Research, Innovation and Science



**Paddy Howard** is a Principal Officer in the Department of Further and Higher Education, Research, Innovation and Science. He is responsible for the monitoring and funding of innovation and research organisations and programmes including Science Foundation Ireland and the Irish Research Council and international research organisations in which Ireland participates including the European Open Science Cloud.

**Dr. Thomas Neidenmark** is a policy officer at the Open Science unit, European Commission, Directorate-General for Research and Innovation where he is focused on the transition to open science. He is engaged with the EOSC (European Open Science Cloud) Steering Board and open science monitoring as a member of the EOSC team.



**Prof. Karel Luyben** is Rector Magnificus Emeritus of the Delft University of Technology since 2018. At present he is primarily active in the domain of Open Science. He is national coordinator for Open Science in The Netherlands, Chairman of the Board for the Dutch Techcentre for Life Sciences and President of the EOSC-Association.



**Roberto Sabatino** is Research Engagement Officer at HEAnet. He represents HEAnet in the EOSC-Association, where HEAnet is Ireland's mandated member. He is also representing Ireland, on behalf of DFHERIS, in the EOSC-Steering Board.

**Dr. Daniel Bangert** is Ireland's National Open Research Coordinator. He coordinates the activities of the National Open Research Forum (NORF). He is a member of the Council for National Open Science Coordination (CoNOSC), the EOSC Task Force on Research Careers, Recognition and Credit, and co-chairs the RDA Working Group on National PID Strategies. His background is in arts and humanities research, academic librarianship, and European Open Science projects (RDA, FAIRsFAIR).





# The EOSC Tripartite collaboration

*National EOSC tripartite event – Ireland*

*Dublin, 28 September 2022*

*Thomas Neidenmark*

*Policy officer, SNE, Open Science*

*DG R&I, European Commission*

# Science is in transition



Image by Nick Youngson CC BY-SA 3.0 Alpha Stock Images

The **Open Science (OS) paradigm** affects the whole research cycle and all its stakeholders

It implies sharing knowledge and tools:

- “as early as possible” in the research process;
- “as openly as possible”;
- “as FAIR as possible”;

not only within a discipline but also between disciplines and society at large.

# Open Science: a Political Priority of the Union



2016: Council Conclusions on the **'Transition Towards an Open Science System'**

2018: EC Recommendation on **'Access to and Preservation of Scientific Information'**

2020: EC Communication on the **'New ERA'**

2021: Council Recommendation on a **'Pact for R&I in Europe'**

2021: Council Conclusions on the **'Future Governance of the ERA'** including the **'ERA Policy Agenda'**

2022: Council Conclusions on **'Research Assessment and Implementation of Open Science'**

# EC strategy for Open Science

- **Improve the practice of research and innovation:**
  - Open access to scholarly publications,
  - RDM and FAIR digital outputs,
  - Reproducible results,
  - Research integrity,
  - Societal engagement & responsibility.
- **Develop proper enablers:**
  - Rewards and incentives,
  - Skills and education,
  - Open Research Infrastructures (including EOSC and ORE),
  - Legal & regulatory environment
- **International context of Open Science**

# EOSC in the European Data Strategy

(February 2020)



## The EU will create a single market for data by:

- ❑ Setting clear and fair rules on access and re-use of data;
- ❑ Investing in next generation standards, tools and infrastructures to store and process data;
- ❑ Joining forces in European cloud capacity;
- ❑ Pooling European data in key sectors, with EU-wide common and interoperable data spaces;
- ❑ Giving users rights, tools and skills to stay in full control of their data.

*“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 fully articulated with the sectoral data spaces.”*

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



# OS and EOSC in the ERA Policy Agenda 2022-2024

ERA Priority Area:

*“Deepening a truly functioning internal market for knowledge”*



Action 1 (out of 20):

***“Enable the open sharing of knowledge and the re-use of research outputs, including through the development of the European Open Science Cloud”***

- Commitments by 24/27 MS
- Three outcomes by end of 2024
- Synergies with other ERA actions:

Data legislative framework for research  
Research Infrastructures  
Green/digital transition

Reform of the Research Assessment  
International cooperation  
ERA monitoring mechanism



# How to implement the EOSC?

- **A community-driven process**
- Gradual implementation based on **mutual alignment at European, national and institutional levels**
- **EOSC Tripartite governance:** Current implementation phase (2021-2030) steered by the EC, the Member States and Associated Countries and the EOSC Association representing the voice of the community
- **EOSC European Partnership to pooling resources:** Horizon Europe grants & procurement plus in-kind additional activities by the members of the EOSC Association



Courtesy of the EOSC Association.

# Strategic Research and Innovation Agenda (SRIA) of the European Open Science Cloud (EOSC)

Version 1.0  
21 June 2021

Independent  
Expert  
Report

EOSC Executive Board

Research and  
Innovation

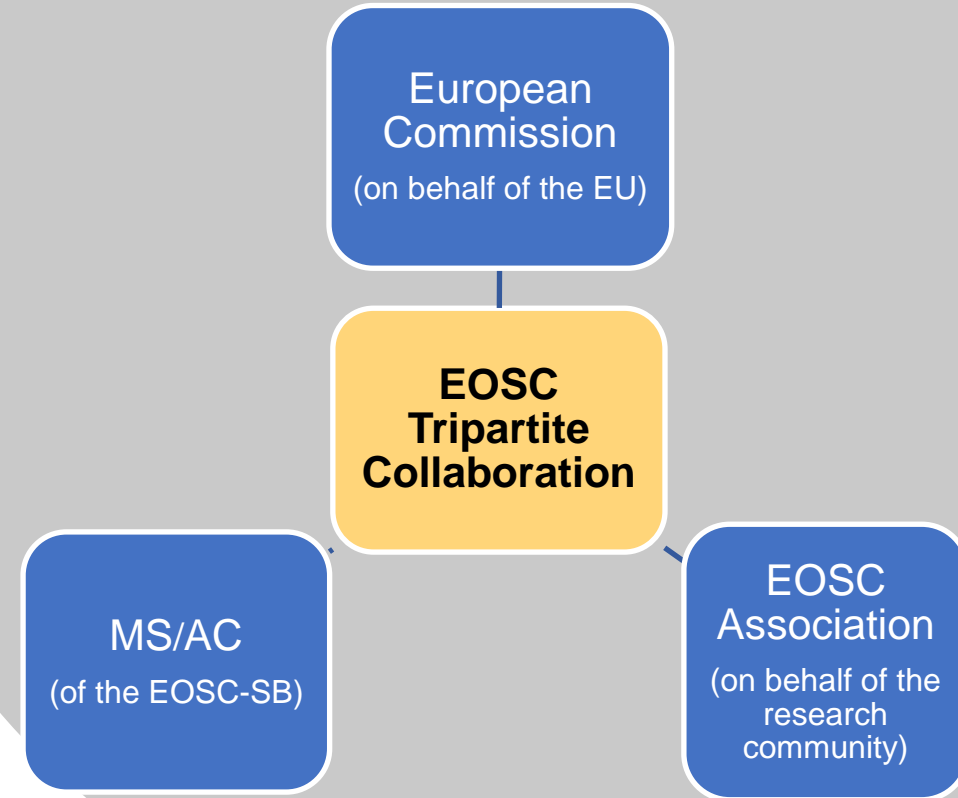
## Roadmap

- 2021-2022: Deploying EOSC foundations
  - 2023-2024: Deploying value-added services for scientists
  - 2025-2027: Engaging with industry and society
  - Continued: Web of FAIR data and services for science
- Three implementation levels*
- European (Horizon Europe)
  - National / regional (Additional activities)
  - Institutional: (Additional activities)

# EOSC tripartite collaboration – a level playing field for EOSC implementation discussion and coordination

## ***Consensus in 2021 to accelerate implementation of***

- the deployment of a viable EOSC platform for use by the research communities;  
👉 *EOSC procurement (ongoing)*
- the deployment of a single joint capacity to monitor the uptake of open science and respective contributions to the EOSC;  
👉 [EOSC Observatory](#)
- alignment of policies, investments, and practices at European, national/regional, and institutional levels to foster synergies and leverage effects of the conducted actions.  
👉 *EOSC tripartite catalogue (being populated)*



# New set of resources for EOSC from Horizon 2020

- Investments in EOSC via Horizon 2020 grants amount to EUR 320 Million
- Actions of direct EOSC-relevance were included in the European Research Infrastructures (incl. e-Infrastructures):
  - WP 2016–2017: EUR 70 Million under the calls “European Open Science Cloud for Research”, “Data and Distributed Computing e-infrastructures for Open Science” and “Platform-driven e-infrastructure innovation”
  - WP 2018 – 2020: EUR 250 Million under a dedicated call “Implementing the European Open Science Cloud”

# Horizon Europe Projects (2021 calls: EUR 70 Million)

[FAIR-EASE](#)

[FAIRCORE4EOSC](#)

[FAIR-IMPACT](#)

[WorldFAIR](#)

FAIR EArth Sciences & Environment services  
Core Components Supporting a FAIR EOSC  
Expanding FAIR Solutions across EOSC  
Global cooperation on FAIR data policy and practice

[BY-COVID](#)

[EOSC4Cancer](#)

BeYond-COVID  
A European-wide foundation to accelerate Data-driven Cancer Research

[Skills4EOSC](#)

[AI4EOSC](#)

[EuroScienceGateway](#)

Skills for the European Open Science Commons: Creating a Training Ecosystem for Open and FAIR Science  
Artificial Intelligence for the European Open Science Cloud  
leveraging the European compute infrastructures for data-intensive research guided by FAIR principles

[RAISE](#)

[EOSC Focus](#)

[e-IRGSP](#)

Research Analysis Identifier SystEm  
EOSC Focus  
e-Infrastructures reflection group support programme

# Support to policy discussion – example from the EOSC-SB survey 2021

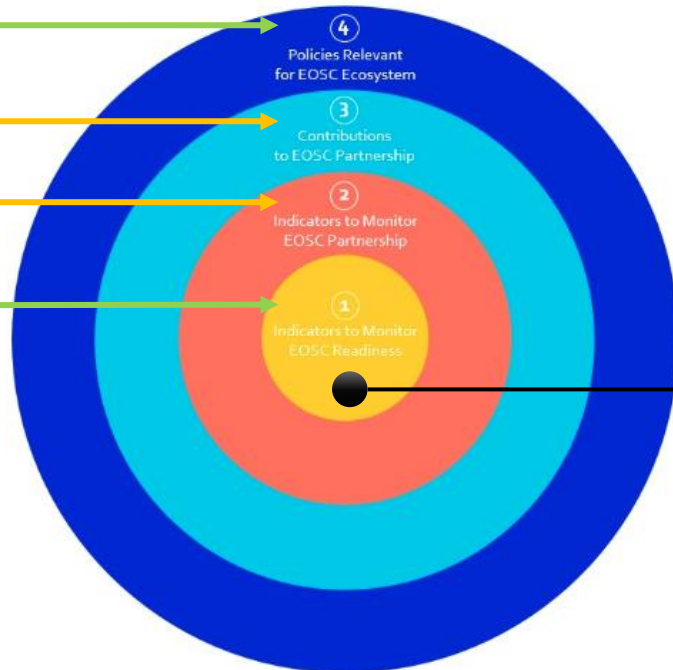


Figure 1: Four Layers of Data Collected by the EOSC Observatory

EOSC Association

EOSC Steering Board

## 2021 survey monitor 45 countries:

- 27 EU MS
- 16 AC
- 1 with Observer status in the EOSC-SB expert group
- 1 other country (CH)

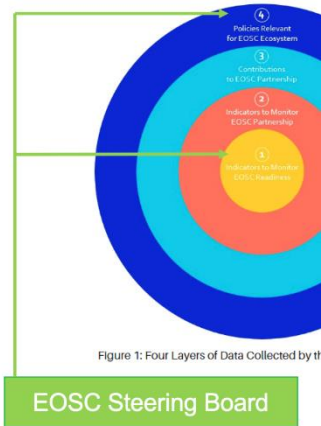
● Countries with national policy on RIs that include aspects of open science

◆ Countries with financial strategies for EOSC-relevant infrastructures

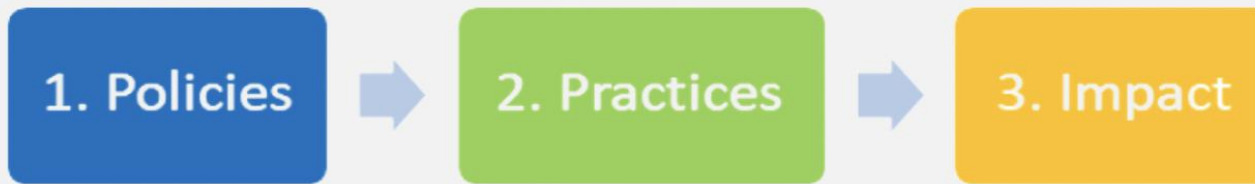
● Countries with use cases and best practices on RIs that include aspects of open science

<https://eoscobservatory.eosc-portal.eu/>

# Further data for policy discussion expected by EOSC-SB indicators (for layer 1 and 4)



Open Science the new normal by 2030



	POLICIES	PRACTICES
PUBLICATIONS	National Policy on X [Y/N] Financial Strategy on X [Y/N] RPOs with Policy on X [#] RFOs with Policy on X [#]	National Monitoring on X [Y/N] Best Practices on X [Y/N] Financial Investments in X [€] Output Indicator for X [#]
DATA		
SOFTWARE		
SERVICES		
INFRASTRUCTURE		
SKILLS/TRAINING		
ASSESSMENT		
ENGAGEMENT		

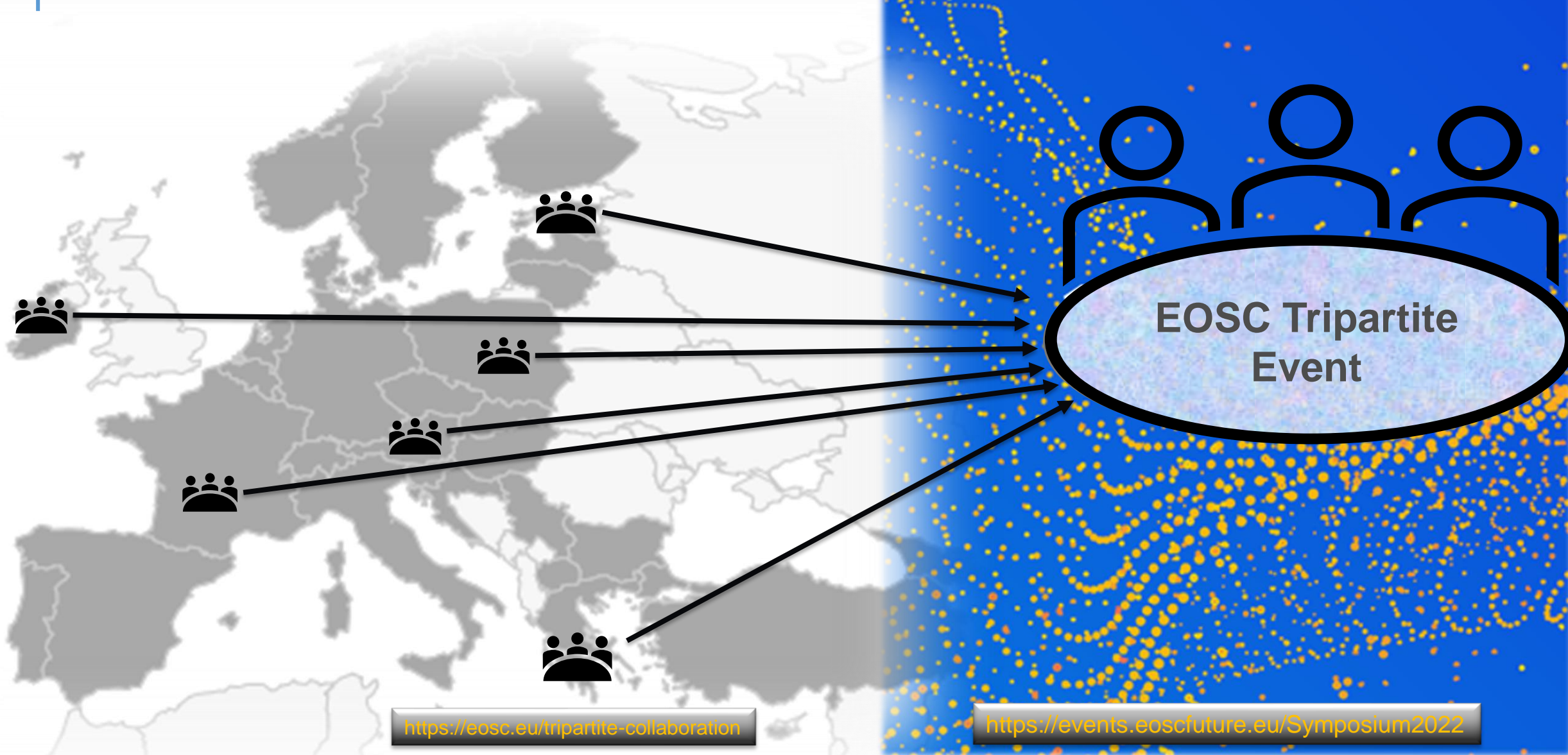
IMPACT
TBD

- Desired impact to monitor**
- Increased reproducibility
  - Increased trust in science
  - Increased research efficiency
  - Increased effectiveness
  - Results taken up by the society

# Coordination of outcome of National EOSC Tripartite Events

EOSC SYMPOSIUM 2022

14 to 17 November



<https://eosc.eu/tripartite-collaboration>

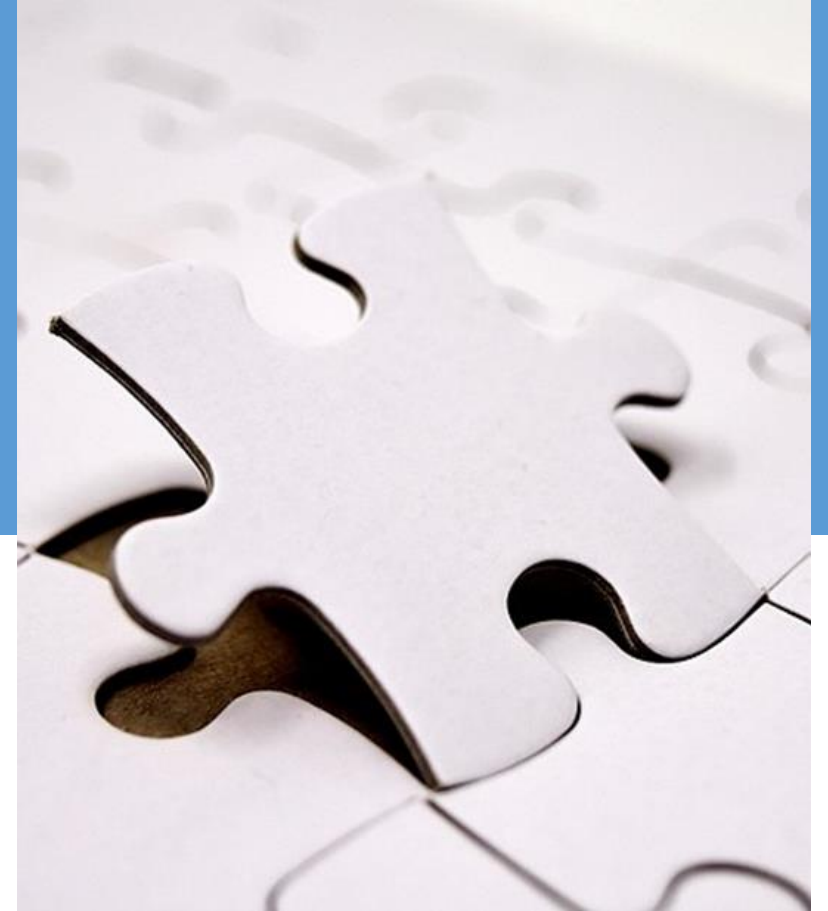
<https://events.eoscfuture.eu/Symposium2022>



# Example of national coordination initiative: Towards an EOSC Support Office in Austria



*Our vision for open science by 2030 is that the research is based on open collaborative work and the systematic sharing of knowledge and data as early and widely as possible in the process, where research digital objects are FAIR and open and reproducible, and citizens, civil society and end-users are involved in the co-creation of the R&I agendas and content.*



# Thank you



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# EOSC Steering Board

# National Tripartite Event

Roberto Sabatino

Dublin, 28th Sep 2022

# EOSC-SB overview

- Representatives of MS/AC – usually from relevant ministries
  - Can be delegated – HEAnet delegated by DFHERIS for Ireland
- Objectives (Work Plan 2022)
  - To create a common understanding between the Commission, the Member States and the countries associated to the Research and Innovation Framework Programme on the direction of policy developments required for achieving the strategic, political and implementation objectives of the EOSC.
  - To pursue synergies and alignment of national policies and investments relevant to the European Open Science Cloud.

## In total EOSC-SB has:

- 93 representatives from Members and Observers
- 27 Member States
- 16 Associated countries
- 2 Observers (incl. EOSC Association)

## 16 countries associated to the Horizon Europe Framework Programme (September 2022) invited:

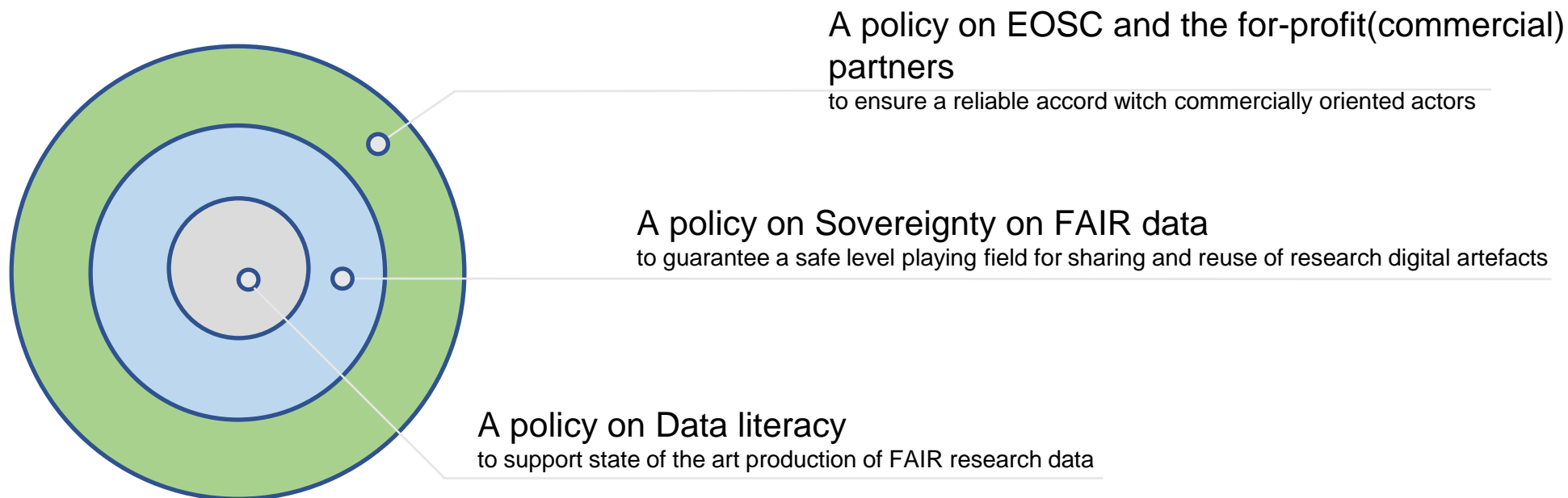
Albania, Armenia, Bosnia and Herzegovina, Faroe Islands, Georgia, Iceland, Israel, Kosovo, Moldova, Montenegro, Norway, North Macedonia, Serbia, Tunisia, Turkey, and Ukraine.

# EOSC-SB Monitoring survey 2021

- Focus on investments in infrastructure and services in 2020, and policies and practices to 2021
- All member states to gather information from RFOs and RPOs in country
- Experience from 2021
  - Information on investments difficult to obtain
  - Ambiguity in respect of what constituted an EOSC-related investment
- Developing survey for 2022, with data on investments for 2021. Feedback sought from NORF Steering Group

# Steering Board Policy Issues 2022

The EOSC-SB has identified 3 policy issues of priority to be addressed as building blocks of the EOSC Tripartite Governance strategy for 2022



Three discussion papers have been drafted by the EOSC-SB Policy sub-group for the SB to discuss and eventually converge on proposals that, also through contributions matured at national level, will be inputs to the Tripartite event in November 2022 and subsequently finalised as position papers.

# EOSC and commercial partners Recommendations

## EU level

### Recommendations for EOSC implementation on the European level

- Recommends that the EOSC is developed to be a public good. In order to achieve this, the European public research sector shall remain the driving force behind the EOSC construction and future service provision, as unrestricted as possible towards other contributions at for-profit or international levels.
- Recommends performing a SWOT analysis concerning the participation of for-profit partners in EOSC.
- Recommends reviewing the RoP in EOSC in view of the role of for-profit partners should have in EOSC, both as providers and consumers.
- Recommends exploring synergies as well as clarifying and formalising the collaborations with the European Data Spaces and initiatives like GAIA-X. This shall include gathering information about the timeline of the upcoming Data Spaces, their relevance for the EOSC, and what elements relative to the EOSC could be integrated in the regulations in the early draft stages

# EOSC and commercial partners Recommendations national level

- Recommends that investments at national level into the private sector in fields related to service provision of FAIR data and services are co-aligned with the EOSC. This addresses mainly the EOSC SB members, who shall support coherence of investment at the national level.
- **Recommends that EOSC Steering Board delegates facilitate discussion in their own Countries about the role of for-profit operators in the provision of EOSC core services. In addition, they should evaluate whether a procurement in the Horizon Europe INFRA-EOSC 2025/2026 work programme is the best tool to continue the EOSC core activities.** A common recommendation should then be discussed at the EOSC Steering Board and communicated to the EC before the first draft of the HE-INFRA-2025/2026-EOSC work programme is developed.
- Recommends that the EOSC Steering Board delegates bring the topic 'EOSC and for-profit operators' **to the discussion in national tripartite events** and to communicate national implementation strategies to the EOSC Steering Board



# Data literacy policy – Vision for 2024

- open data skills and competence for researchers at all career stages accelerate a stable and solid increase of open research data shared in line with the FAIR principles and re-usage of existing data;
- sustainable support for researchers is provided in their activities by profiles of Data Science professionals with well-defined roles and responsibilities;
- mutual learning is widely practiced in the area of open science across Europe by creating respective networks and platforms;
- awareness for FAIR data and data literacy is wide-spread among the European, national, and institutional decision-and policy makers by nominating, educating, and training FAIR data / EOSC Ambassadors (Champions) selected among them.

# Data literacy policy - actions

Opinion paper proposes 17 actions at 3 levels – examples below

- European:
  - Establish a European network of competence centres of national and institutional scope
  - European programmes for FAIR data training
- National:
  - Build research support staff capacity centres that provide training for new FAIR data professionals
  - Create frameworks for recognition of open data skills and competencies
- Institutional
  - Implementation of Data Management Plans in application forms

# Sovereignty of FAIR Data - Definition

- The protection of rights of the data owners/communities/funders (IPRs, academic freedom, institutional sovereignty, geo-localization, quality protection) to safeguard the value and investment in making FAIR datasets and in developing/operating FAIR data services;
- The safeguard of a minimum autonomy/freedom by the research community regarding access to critical services along the data life cycle (including digital services from non-profit public actors);
- The transparency on data provenance and of how the data have been processed
- The right to withdraw a FD set based on scientific reasons
- The elaboration of appropriate rule settings targeting public or private partners and other users from non-EU and associated countries(see EOOSC-SB opinion paper on EOOSC and commercial partners).

# Sovereignty of FAIR Data – Example Actions

- The Rules of Participation evolve over time in response to developments in quality standards per discipline
- Ensure that IT architecture and services can respond to these developments
- Keeping up to date information on national EOSC-ready/compliant nodes or infrastructure
- Align with national laws and European common practice

# Your input and engagement

- Opinion papers circulated to NORF Steering Group
  - Who else should feedback, and how do we go about it ?
- Time until mid October for feedback
- The policy issues will be concluded in the EOSC tripartite event on 14 November in Prague (back to back with the EOSC Symposium)
- All invited to register to the EOSC Symposium in Prague, CZ, 15-17 November – the main annual EOSC event <https://events.eoscfuture.eu/Symposium2022>
- You can join the WGs as an expert on any of the specific topics

# The Role of Mandated Organisations in the EOSC-Association.

## National Tripartite Event

Roberto Sabatino

Dublin, 28th Sep 2022



An Roinn Breisoideachais agus Ardoideachais,  
Taighde, Nuálaíochta agus Eolaíochta  
Department of Further and Higher Education,  
Research, Innovation and Science

# From the Articles of Association

- “Each Member State or Associated Country that has one or more organisations that are Members of the Association may appoint one (1) Member to act as its Mandated Organisation, to represent national interests”
- HEAnet is Ireland’s only member of the EOSC-Association and appointed by DFHERIS as its mandated member.
- Mandated members have more weight in voting matters than ordinary members - some matters require double majority (mandated and ordinary members majority)
- Roles and expectations defined in May 2022, as bidirectional:
  - Towards the EOSC-Association
  - Towards the stakeholders in their countries
  - This includes providing input relevant to the broader engagement and priorities relevant to their national research system to the EOSC Association, and vice-versa.

# Towards the EOSC-Association

- Coordinate the view from the stakeholders in their countries;
- Consult the EOSC-A members and active participants (Task Force members, etc.) in their constituencies on important decisions to be taken by EOSC-A



# Towards national Stakeholders

- Translate and communicate the mission of EOSC in the national context;
- Encourage and facilitate communication between and alignment of relevant funding agencies (public and private);
- Raise any needs of the communities to the respective EOSC-SB member;
- Inform Members, Observers, members of the EOSC National Initiative (if any) and other stakeholders on the development of EOSC and help to coordinate the discussion in their countries;
- Translate the European developments to help structure the infrastructure within their countries;
- Monitor and suggest proper alignment of infrastructures and policies within the countries and Europe;
- Reach out to relevant stakeholders and help grow the EOSC-A member base in order to increase community representation and impact

# and more...

Contribute to relevant activities on a national level:

- Organisation of National Tripartite meetings and events;
- Regular meetings in the respective country with EOSC-A Members and Observers, also inviting Task Force members;
- Support EOSC-A in its task to produce an annual Additional Activities Plan;
- Promote monitoring activities of EOSC-A;
- Maintain contact with beneficiaries of relevant EU-funded projects (closing of H2020 and kick-off of HE).

(Inter-)MO activities facilitated by EOSC-A Board and Secretariat:

- Regular (bimonthly or quarterly) meetings of MOs with Board and Secretariat;
- Set-up of a dedicated MO area on the future EOSC-A community platform for sharing of information;
- Promotion of national activities on EOSC-A website and social media channels

# Reality in Ireland

- Need for more, and structured coordination and communication between stakeholders, to enable HEAnet to provide a national view to EOSC-A (rather than personal) and vice-versa.
  - applies to EOSC-SB too
- Some Interactions with NORF Steering Group

# A (simple) way forward

- EOOSC-SB developments and EOOSC-Association developments both need input from national stakeholders
- Propose informal cafe-style gatherings, on regular basis, where ongoing topics can be shared and discussed
  - online calls via MStteams/zoo
  - once a month/6 weeks
  - supported by a mailing list
- Topics may include
  - EOOSC-SB policy/opinion papers discussion
  - EOOSC-Association Task-force developments
  - INFRA-EOOSC projects update
- A more formal, annual NTE event

# National Tripartite Event

IRELAND

## Ireland's National Open Research Forum and National Action Plan for Open Research

Dr Daniel Bangert

National Open Research Coordinator

Digital Repository of Ireland



An Roinn Breisoideachais agus Ardoideachais,  
Taighde, Nuálaíochta agus Eolaíochta  
Department of Further and Higher Education,  
Research, Innovation and Science

# Outline

Ireland's National Open Research Forum

National Action Plan for Open Research

- Establishing a culture of open research
- Achieving 100% open access to research publications
- Enabling FAIR research data and other outputs

Summary and reflections

Website: <https://norf.ie/>

Twitter: @norfireland

# Open Science: recent drivers and developments

European Research Area Policy Agenda  
2022-2024

Enable the open sharing of knowledge  
and the re-use of research outputs,  
including through the development of the  
European Open Science Cloud

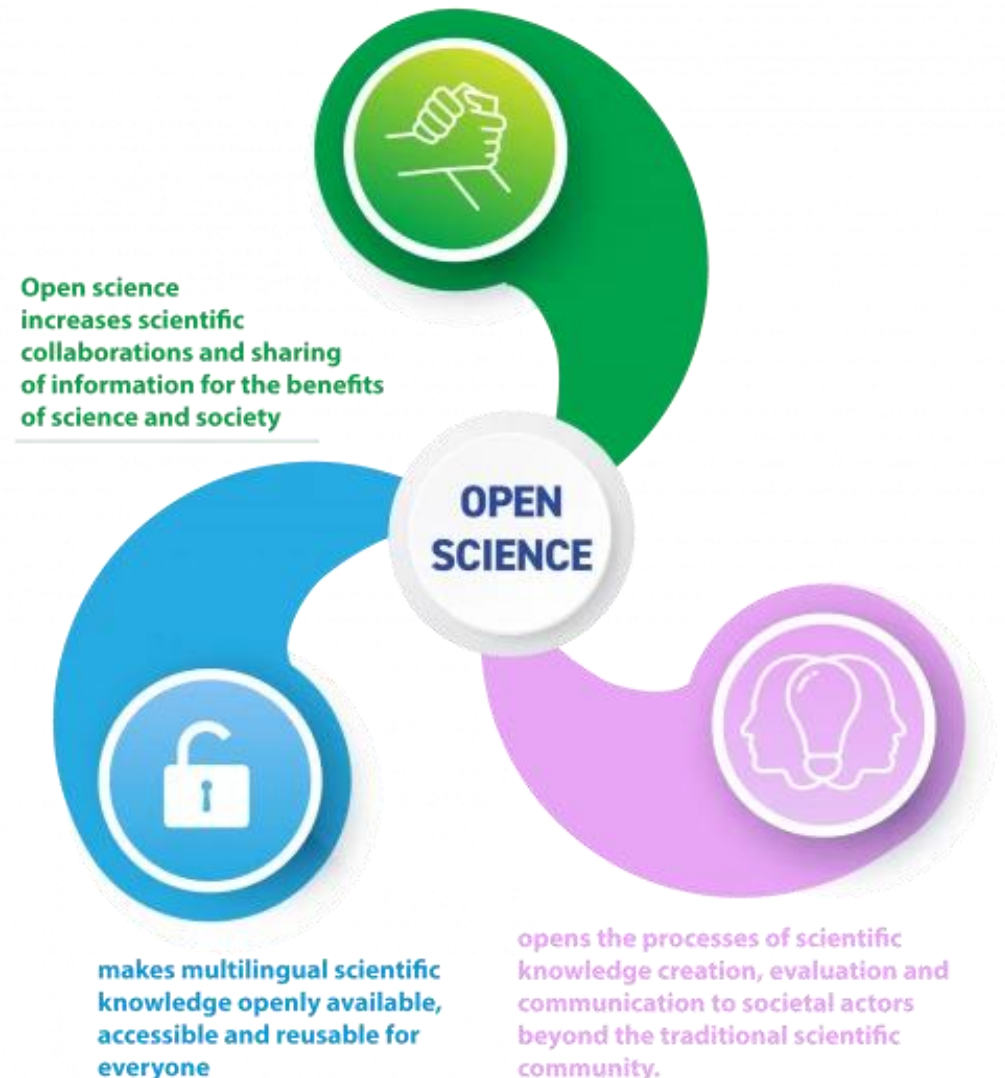
Horizon Europe 2021-2027

UNESCO Recommendation on Open  
Science 2021

WHOSTP Memorandum 2022

Open Science in the era of COVID-19

Source: [UNESCO](#)



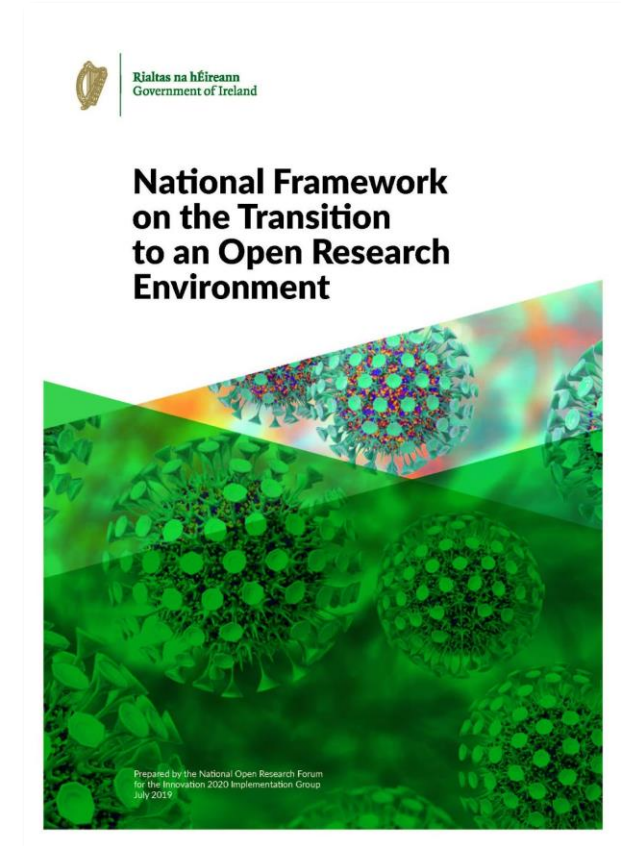
# Ireland's National Open Research Forum

Established in 2017 to drive the Irish agenda for Open Research

First phase of work included developing Ireland's *National Framework on the Transition to an Open Research Environment* (July 2019)

Since late 2020 working on the development and delivery of a *National Action Plan for Open Research*

Development of the National Action Plan has been supported by national Working Groups in five strategic areas



<https://doi.org/10.7486/DRI.0287dj04d>



# Development of the National Action Plan

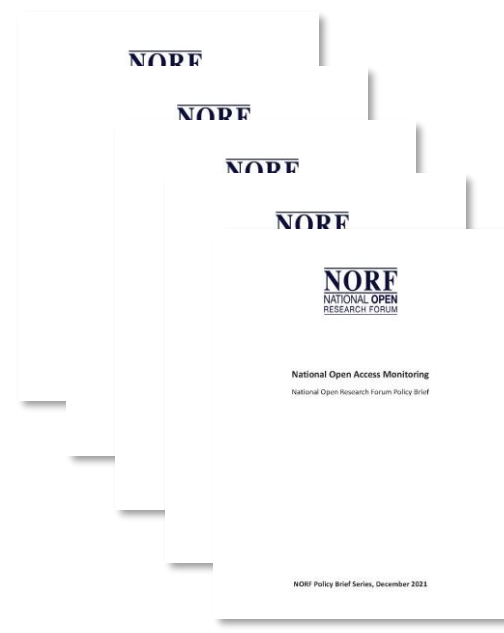
Led by NORF, with direct input from over 90 stakeholder representatives and further input via public and targeted consultations



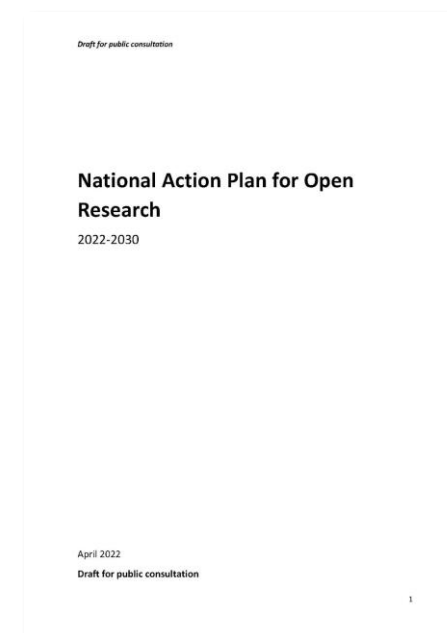
2019  
National Framework



2021  
Landscape Report



2021  
Policy Briefs



2022  
National Action Plan

# Development of the National Action Plan

Webinar series presenting results from each NORF WG in dialogue with international developments with invited speakers

Targeted consultations with specific communities, e.g., workshops with the Irish Humanities Alliance and Irish academic publishers

Data steward instructor training delivered with FAIRsFAIR and EOSC-Synergy

Participation in FAIRsFAIR policy enhancement support programme

Public consultations on drafts of the National Open Research Landscape Report (2021) and the National Action Plan for Open Research (2022)

Landscape Report and 14 policy briefs are supporting outputs that provide further rationale and background for actions in the National Action Plan

# National Action Plan for Open Research 2022-2030

Outlines a national vision for a research system fully aligned with open research principles and practices by 2030.

The action plan is structured according to three themes or overall aspirations, under which a vision, goals, and actions are articulated:

- **Establishing a culture of open research**
- **Achieving 100% open access to research publications**
- **Enabling FAIR research data and other outputs**

# Establishing a culture of open research

As an approach to the research process, open research practices impact on methodologies across the research lifecycle and contribute to research excellence. Open research should therefore be fostered and become embedded in the Irish research system through consistent and system-wide recognition and reward mechanisms.

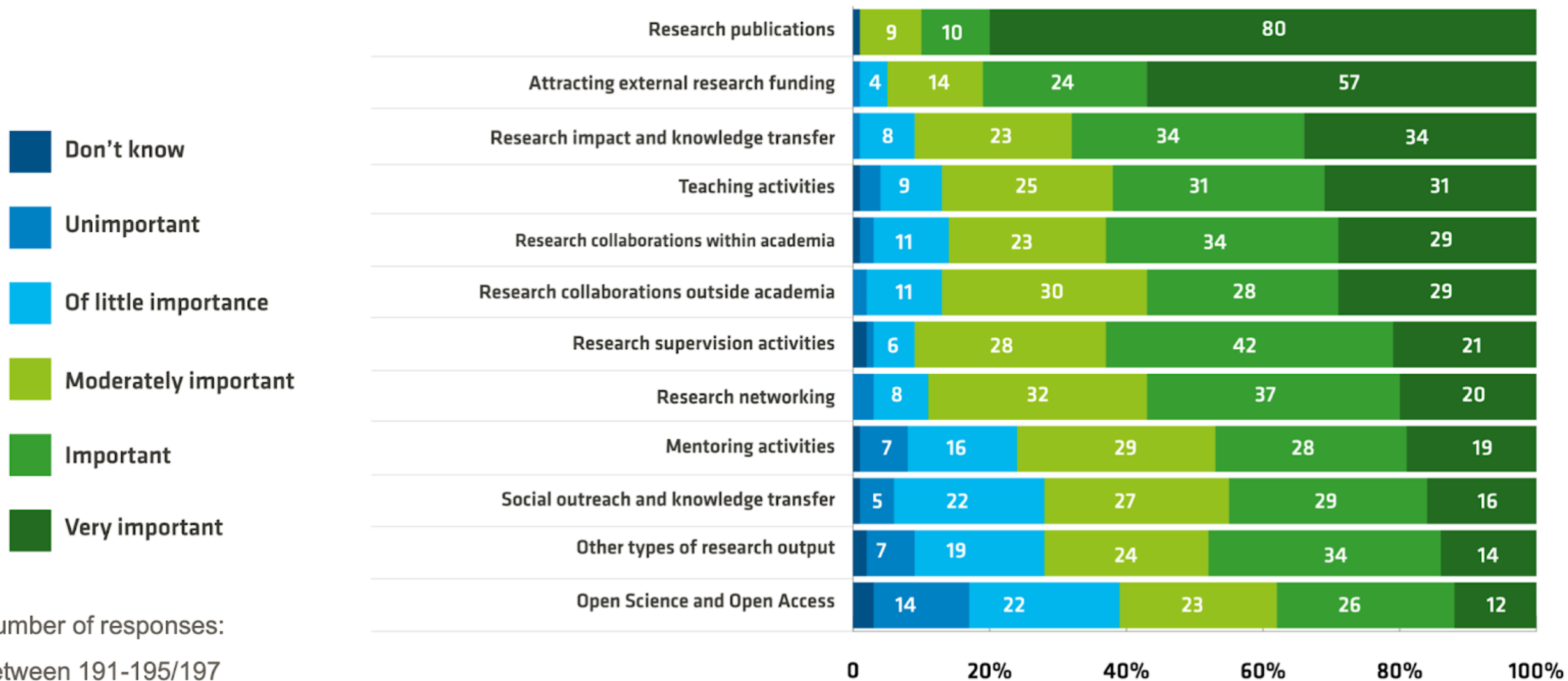
## [Dutch Recognition and Rewards Programme](#) 'Room for everyone's talent':

Diversifying career paths for academics, recognising individual and team performance, emphasising quality of work, encouraging all aspects of open science, encouraging high quality academic leadership.

[Paris Call on Research Assessment](#): we need to align what we assess with what we value

## [Agreement on Reforming Research Assessment](#)

# Which types of academic work matter most for research careers?



Number of responses:  
between 191-195/197

# Establishing a culture of open research

By 2030 a culture of open research will be embedded at every level of the Irish research system. The re-orientation of research recognition and rewards towards responsible research evaluation and open research metrics and practices will be well underway or complete, and approaches to research assessment will be broadly aligned at a system level across all stakeholders. Researchers at all career levels will have opportunities to learn open research skills, with clear incentives to do so. Across the system, there will be widely available specialist open research support for researchers, provided by dedicated support professionals, who have access to accredited training and clear career progression routes. An embedded culture of open research supported by responsible research evaluation and assessment, national training programmes, and increased specialist support, will promote and support the quality and impact of Irish research.

# Actions to establish a culture of open research

- Upskill researchers and relevant professional support staff in open research
- Strengthen the system-wide recognition and reward of open research practices
- Align research assessment with the principles of open research
- Support institutional and community networks for open research
- Encourage initiatives to facilitate open research in funding programmes and awards

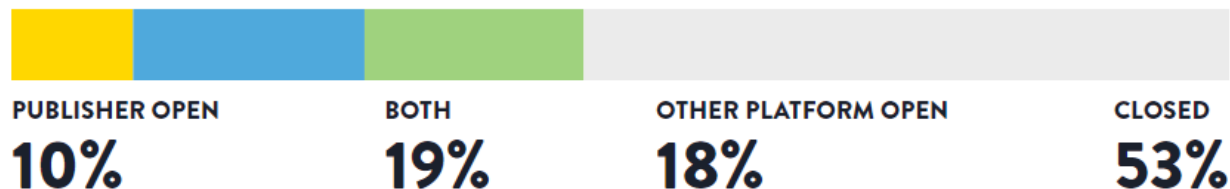
# Achieving 100% OA to research publications

Ireland's *National Framework* sets a target for all Irish scholarly publications resulting from publicly funded research to be openly available by default. To progress towards this objective, we support multi-track policies and pathways to open access, enabling both repository-mediated (also known as Green OA) and publisher-mediated (Gold OA) routes, without an embargo period.

Current overall level of Open Access for Ireland estimated at 47%.



## BREAKDOWN





# Achieving 100% OA to research publications

By 2030 Ireland will have implemented a sustainable and inclusive course for achieving 100% open access to research publications. Provisions put in place to support a diverse open access publishing ecosystem and the retention of authors' rights will ensure Irish researchers have the freedom to choose from a range of quality options for making their research open access. An interoperable and robust network of repositories will contribute to making Irish research more visible and accessible locally and internationally. Benchmarking, drawing on a transparent national open access monitoring mechanism, will place Ireland amongst the leading countries internationally in terms of achieving 100% open access.

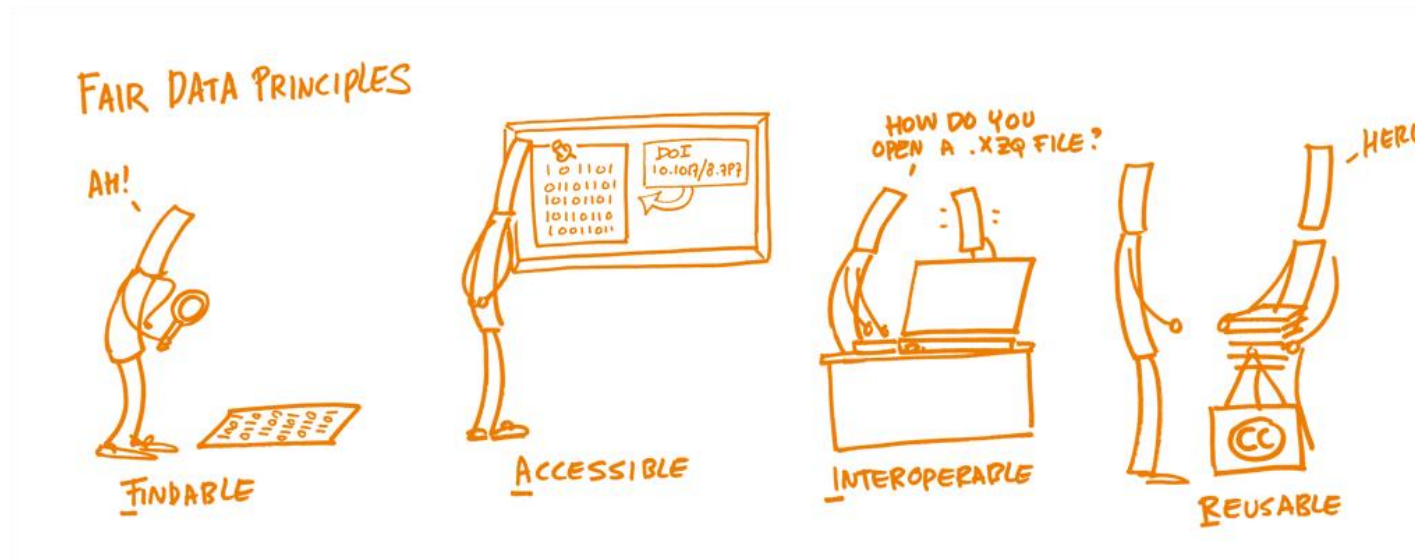
# Actions to achieve 100% OA to research publications

- Strengthen Ireland's network of open access repositories
- Support rights retention for Irish researchers
- Support bibliodiversity in Ireland
- Invest in Persistent Identifier infrastructure to enable consistent monitoring and improve interoperability
- Align policies for open access to publications

# Enabling FAIR research data and other outputs

Ireland's *National Framework* supports the principle that [FAIR \(Findable, Accessible, Interoperable, Reusable\) data](#) contribute to research integrity and reproducibility, and that research data should be 'as open as possible, as closed as necessary'.

National examples: [Ireland's Health Research Board](#); [Digital Repository of Ireland](#); [Irish ORCID Consortium](#)



# Enabling FAIR research data and other outputs

By 2030 Ireland will have a mature ecosystem of infrastructures to support the responsible management and sharing of research data and other outputs in line with the FAIR principles. A diverse range of research activities and outputs will be recognised and rewarded in research assessment and evaluation, including data sharing. Data stewardship will be firmly established in the national landscape, with data stewards providing key expertise to assist researchers with research data management needs. Open research infrastructures will be considered and planned for within national roadmaps for research infrastructures. As an outcome of national roadmapping processes, open research infrastructures will receive adequate funding, form part of a coherent and sustainable approach to RIs, and will be benchmarked against other national RIs.

# Actions to enable FAIR research data and other outputs

- Support the development and professionalisation of research data stewardship nationally
- Support national services for storing, managing, sharing and preserving research data
- Align policies for the management and sharing of research data, software, and other outputs
- Contribute to a Research Infrastructure roadmapping strategy
- Strengthen connections to international infrastructures supporting open research and research data, including the EOSC

Through consultation with national stakeholder groups, promote active engagement with the European Open Science Cloud (EOSC). Support the development of EOSC by contributing Irish infrastructures and datasets to the EOSC catalogue and marketplace, promoting EOSC resources, and supporting Irish researchers and institutions to use EOSC's system of federated data and services.

# Implementation and support

## *Impact 2030: Ireland's Research and Innovation Strategy*

Open research is a key cross-cutting policy agenda supporting the strategic objective to embed consistent good research practices to drive research excellence and quality of outcomes

[DFHERIS announcement](#): €1.725 million to support the uptake and implementation of open research practices in Irish higher education institutions and the wider Irish research system. Funding through the HEA, administered by the Digital Repository of Ireland.

“This announcement signals our Government’s commitment to open science, the sharing of research data and knowledge with each other nationally, and with our colleagues in Europe and beyond.”

# NORF 2022 Open Research Fund

**National Open Access Monitoring:** to develop a monitor for open access at the national level to publish, analyse and track progress towards 100% OA.

**Open Access Repository Assessment and Alignment:** to conduct a national programme of repository alignment to deliver standardised metadata nationally while building infrastructure in line with international best practices.

**Open Access Transition Programme:** to conduct a feasibility study and pilot with a view to establishing a national platform for Diamond OA publication of journals and books.

**Open Research Training Programme:** to develop a national open research training programme to enable researchers at all stages of their career to upskill in open research practices.

**National Data Stewardship Network:** to establish a national network across research performing organisations, funders, and related research support services and infrastructures to build national capacity in FAIR data management and stewardship.

**Shared Data Storage Pilot:** to develop a national shared data storage service for active data, starting with a pilot for diverse research groups.

# Summary and reflections

Open research is a key cross-cutting policy agenda for R&I

National agenda through a multi-stakeholder, consultative approach to build community consensus

Underlying challenge of culture change: making open research possible through infrastructure, easy through training and support, normative through communities, rewarding through incentives, and required through policies ([Nosek/COS](#))

National coordination aims to overcome fragmentation and avoid duplication by identifying and implementing prioritised actions of benefit to the Irish research community as a whole

Implementation requires collective and collaborative action at all levels (local, national, international)



# Panel-1 Research Infrastructures in support of Open Science and FAIR data

## National Tripartite Event

Sarah Jones, Denis Shields, Natalie Harrower, Sandra Collins, Venkatesh Kannan, Jennifer Symonds  
Dublin 28th Sep 2022



An Roinn Breisoideachais agus Ardoideachais,  
Taighde, Nuálaíochta agus Eolaíochta  
Department of Further and Higher Education,  
Research, Innovation and Science



Sarah Jones is EOSC Engagement Manager at [GÉANT](#), where she works with NRENs on supporting Open Science. Sarah was rapporteur on the European Commission's [FAIR Data Expert Group](#) and independent expert on the EOSC Executive Board, chairing the FAIR Working Group. She now sits on the EOSC Association Board of Directors.

*Dr Venkatesh Kannan – ICHEC - is responsible for defining and implementing the vision, strategy and roadmap of the Centre's RD&I activities. This includes developing partnerships with domestic and international organisations in academia, industry and the public.*



*Prof. Denis Shields is the Head of Node of Elixir Ireland. Elixir is a European organisation spanning EU and non-EU nations. It promotes maximal use and sharing of life science data, with services provided by nodes, and with communities and platforms connecting people into activities. He is Professor of Clinical Bioinformatics at University College Dublin.*



Dr. Natalie Harrower is Director of the Digital Repository of Ireland (DRI). She is a member of the National Archives Advisory Council, the ALLEA Open Science Taskforce, and CNC CODATA. She has also served on expert and advisory groups for the Research Data Alliance (RDA), the European Commission (FAIR data), the EOSC (FAIR working group), and the OECD (Sustainable Data Repositories). The DRI coordinates Ireland's National Open Research Forum (NORF).



Dr Sandra Collins is University Librarian at University College Dublin. She is the Chair of the Consortium of National and University Libraries (CONUL), a member of the Irish Government's Expert Advisory Group for Commemorations, the Advisory Forum to the Irish Government's National Conversation on Research, the Board of HEAnet and the DRI, and the international Council of the RDA.

*Prof. Jennifer Symonds directs Europe's largest planned birth cohort study: Growing Up in Digital Europe (GUIDE). GUIDE is a landmark European research infrastructure, marked by its appointment to the European Strategic Forum for Research Infrastructure Roadmap in 2021.*



# Denis Shields – ELIXIR Ireland node



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Taighde, Nuálaíochta agus Eolaíochta  
Department of Further and Higher Education,  
Research, Innovation and Science



— legal agreements



Enables scientists to access and analyse life science data

### Provide local training & supports

SFI CRT Genomics Data Science PhD Programme  
Data Stewardship Manager (UCD, Elixir funded, CONVERGE award)

### Provide to Europe/world

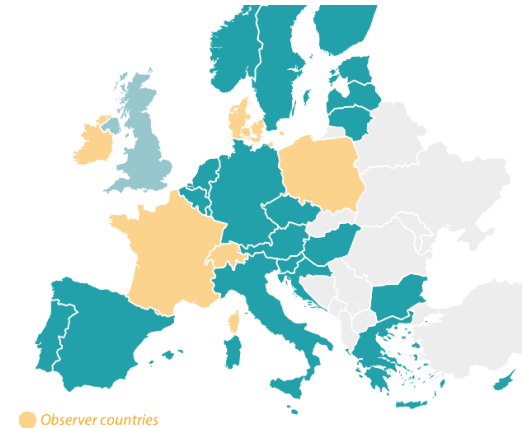
Database services; software services (funded by Ireland), sequence data  
Expertise (Machine Learning, single cell)

### Receive from Europe

Funding, data systems and training  
Training tools, software, platform, data, compute, technical community memberships  
Routes to participate in funded initiatives (Elixir; EOSC; Digital Europe; INFRA; DEV etc)

# Example: Genomics Data Infrastructure (GDI)

Countries that have signed  
the 1+MG Declaration since 2018



- Irish implementation of a Federated Genomics Data Infrastructure
- Builds on 1+ Million Genomes Programme
- Horizon Digital Europe support with HRB co-funding in Ireland
- Led by Elixir Hub (at European Bioinformatics Institute, Cambridge, UK)
- 4 years funding 1+ staff (from Nov 2022)



RCSI



UCD (D Shields): training and Elixir integration



UL (A Culhane): cloud implementation of Elixir Europe systems genomics data sharing

- Controlled **access** by user authentication AAI
- BEACON query systems to **find** data, international GA4GH standard
- **Interoperability**: simulated data test ( 'onboarding' country, playing catch-up)
- Grow towards systems for **re-use** of the data



MU (M Helfert): data **governance**

• National Mirror Group for human genomics data



# Ireland node has more limited resources compared to others

- How do we manage the opportunities, to select those to focus on?
- Elixir is looking for us to lead on an area of excellence to meet unmet needs in Europe: can we rise to this challenge?
- Ireland is looking for us to support partnerships across a wide range of topics: how do we best use limited resources to engage with these proposals?



# The way forward for Elixir Ireland

- Engage widely, align opportunities with core skills and strategic partnerships
- Demonstrator programme to develop key area(s) of excellence led by Elixir Ireland
- Develop a sustainable Irish National Strategy for Life Science Big Data
  - Launch at Elixir All-Hands meeting June 2023
    - 400 life data scientists converge at the Dublin Convention Centre



# Natalie Harrower – DRI



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Taighde, Nuálaíochta agus Eolaíochta  
Department of Further and Higher Education,  
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# The Digital Repository of Ireland

## Trustworthy Digital Repository

- Trustworthy Digital Repository
- Long-term preservation
- Access & Discovery
- CoreTrustSeal certified
- Disciplinary remit: Humanities, Social Sciences, Cultural Heritage
- Sectoral remit: Research & Higher Education, Culture, Government
- FAIR-enabling

The screenshot shows the DRI website homepage. At the top left is the DRI logo and name. To the right are social media icons for Twitter, Facebook, YouTube, LinkedIn, and Instagram, and a search bar. Below this is a navigation menu with items: HOME, REPOSITORY, DEPOSIT, RESOURCES, OUR WORK, NEWS & EVENTS, ABOUT, and WORKSPACE. The main content area is divided into two columns. The left column is titled 'Featured' and contains three news items: 'Archiving Reproductive Health (ARH) Wins Award', 'Research Open Day, 4 Oct 2022', and 'Digital Preservation of Religious Collections'. The right column is titled 'News' and contains three news items: 'Information Session for the 2023 Community Archive Scheme', 'DRI Project Archiving Reproductive Health Wins Digital Preservation Award', and 'DRI is Hiring a Research Associate'. At the bottom of the news section, there is a link for 'DRI Welcomes New NORF PM'.



# The Digital Repository of Ireland

Research Centre/Best Practice Hub

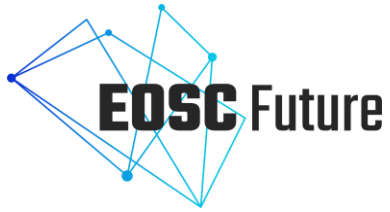


DPASSH: Digital Preservation of Religious Collections

- Digital Archiving
- Digital Preservation
- Digital Collections & Exhibitions
- FAIR & Open Science
- Training & Education Programme
- Membership Groups, Activities
- Guidelines & publications

# The Digital Repository of Ireland

## Research Projects



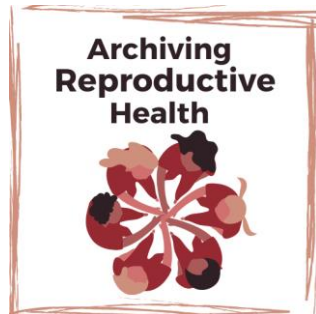
H2020 project  
Implementing the  
EOSC. (INFRAEOSC-03-  
2020)



WorldFAIR: improving  
image sharing in  
cultural heritage



OS200: Digitally Re-  
mapping Ireland's  
Ordnance Survey  
Heritage



Archive & Access to  
the digital footprint of  
the Referendum on  
the 8<sup>th</sup> Amendment



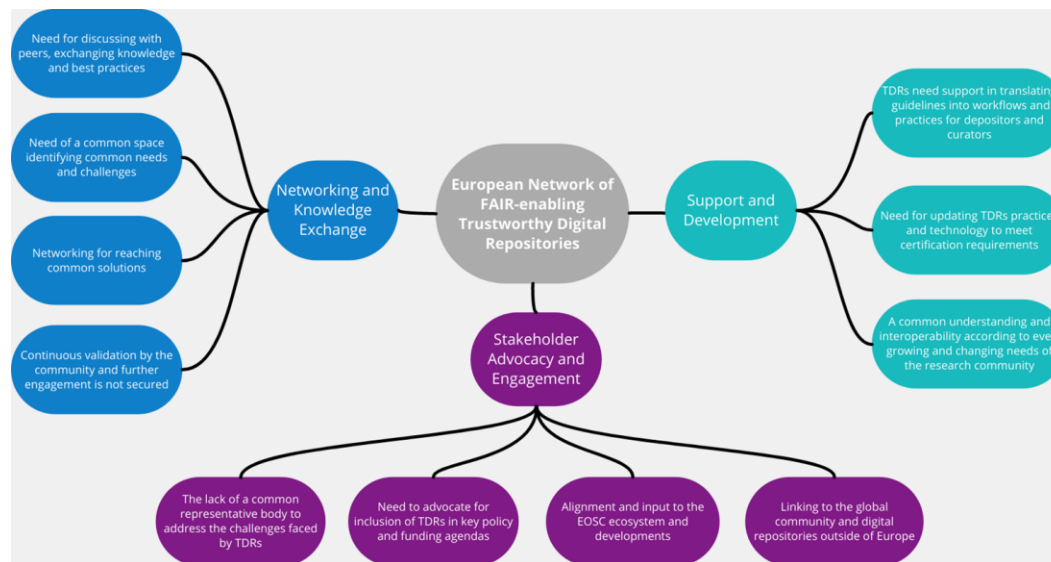
EnrichEuropeana+  
Transcription &  
Discovery

- Contribute to state-of-the-art in data preservation, access and discovery
- Develop expertise as a FAIR-enabling digital research infrastructure
- Test our own practices against recognised good practice
- Build international partnerships for exposure to new developments



# The Digital Repository of Ireland

International engagement: Networks, Working Groups, Taskforces



Digital Preservation Coalition



Towards a Network of FAIR-enabling TDRs  
<https://doi.org/10.5281/zenodo.7034315>



# The Digital Repository of Ireland

## ↪ National Open Research Forum

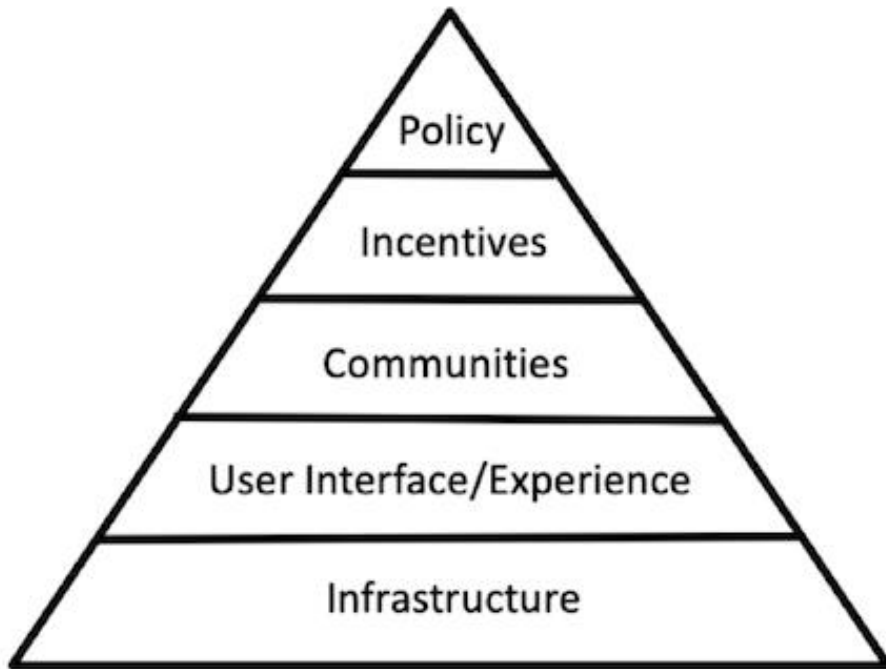
- NORF is a forum with representatives from across the Irish research and RPO sector
- DRI is the coordinating organisation for the NORF
- Administering Ireland's first national budget for Open Research
- Funded projects to address 6 key targeted actions to start 1 Nov 2022



# Sandra Collins – UCD Library / CESSDA



An Roinn Breisoideachais agus Ardoideachais,  
Taighde, Nuálaíochta agus Eolaíochta  
Department of Further and Higher Education,  
Research, Innovation and Science



Make it required

Make it rewarding

Make it normative

Make it easy

Make it possible



Leabharlann UCD  
UCD Library

Centre for Open Science

# Institutional Repository

Research Repository UCD is a digital collection of green open access scholarly research publications from University College Dublin.

The repository collects, preserves and makes freely available publications including peer-reviewed articles, working papers and conference papers created by UCD researchers.

No cost to authors or readers – increases visibility and global impact of research

**Approx 15,000 publications  
free to access online**



**RESEARCH REPOSITORY UCD**



# UCD Digital Library

A digital preservation and access platform for digital assets from UCD Library's cultural heritage repositories, campus partners, and external partners, including the Garda Museum, Irish Lights, OSi, and the Dublin Diocesan Archive.

Delivers community engagement, global impact and collaboration with international data aggregators such as Europeana and Google Arts & Culture.

3.5 million pageviews from all over the world



**UCD | Digital Library**  
online access to historical and contemporary collections



[digital.ucd.ie](http://digital.ucd.ie)





Leabharlann UCD  
UCD Library



# ISSDA

Irish Social Science Data Archive

[www.ucd.ie/issda](http://www.ucd.ie/issda)

**ISSDA is Ireland's national centre for quantitative social science data**

70+ key datasets including TILDA, Growing up in Ireland, EU-SILC, Labour Force Survey, Irish Survey of Student Engagement

**Long-term digital preservation and access, established in 2000**

ISSDA became the designated Irish service provider to CESSDA in 2021

cessda



**IRISH RESEARCH COUNCIL**  
An Chomhairle um Thaighde in Éirinn


# Research Data Management

## Research Data Management: Introduction

Search this Guide Search

Bringing together University resources and services to facilitate researchers in the production of high quality data.

Introduction Getting started with RDM Funders' Requirements Data Management Plans Data Description  
Organisation, Documentation & Metadata Storage, Backup & Security Legal & Ethical Requirements  
Data Sharing & Long-term Preservation Responsibilities & Resources Support & Training UCD Library's Suite of Resources Discover RDM Webinars



### Create your DMP

with DMPonline at UCD

### BEFORE

Your Research

- Create a Data Management Plan (DMP)
- Create Data
- Make your Data FAIR

### DURING

Your Research

- Store & Secure your Data
- Create Metadata
- Gain Informed Consent

### AFTER

Your Research

- Share your Research Data
- Preserve your Research Data
- Licence your Data

### UCD Library Data Manager



**Jenny O'Neill**

she/her

[Email Me](#)

**Contact:**  
Research Services,  
Level 2, James Joyce Library

**Subjects:**  
Bibliometrics

# RDM Service Development

- Enhanced training & one-to-one support for researchers, greater focus on ECRs, helping to build capacity & support research career development
- Assist UCD researchers in developing high quality DMPs via **DMPonline @ UCD**, supporting legal, ethical & IP obligations as well as best practice
- RDM Community of Practice in collaboration with key campus stakeholders to exchange knowledge & best practice
- Establish a UCD Community on Zenodo supported by advice & assistance from UCD Library



Leabharlann UCD  
UCD Library

# RESEARCH TOOLKIT WEBINARS

*Book online via UCD Library Training*



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# Panel-2 Implementing Open Science policies: perspectives from funders and institutions

## National Tripartite Event

Joseph Moore, Patricia Clarke, Veronica Cunningham, Brian Fitzgerald, Lorraine Byrne, Geraldine Canny

Dublin, 28th Sep 2022



An Roinn Breisoideachais agus Ardoideachais,  
Taighde, Nuálaíochta agus Eolaíochta  
Department of Further and Higher Education,  
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# National Tripartite Event

IRELAND

Implementing Open Science policies: the Health Research Board (HRB) approach

Dr Patricia Clarke, HRB



An Roinn Breisoideachais agus Ardoideachais,  
Taighde, Nuálaíochta agus Eolaíochta  
Department of Further and Higher Education,  
Research, Innovation and Science




# HRB approach to Open Science

(Tools and Partnerships)

National OA principles  
HRB OA policy


Open Science and Ireland Conference

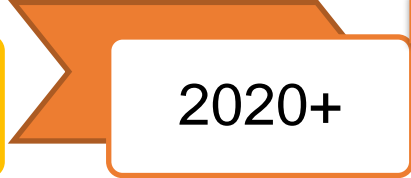
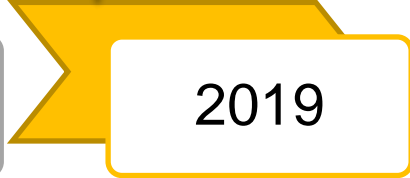
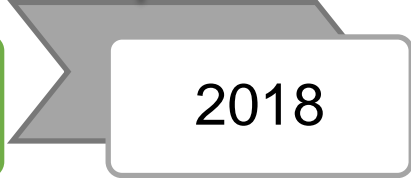
National Open Research Forum (NORF)  
Collaboration with GO-FAIR and DTL  
Building awareness FAIR workshops

HRB Open Research platform   
HRB DORA signatory   
HRB-HEI data stewards upskilling, Leiden  
Phase I FAIR DMP pilot in HRB funding schemes

National Framework for transitioning to open research published by Irish government  
National Integrity Policy Statement  
HRB

- Adopted Science Europe RDM guidelines
- FAIR Funders Implementation Study Phase II
- Secondary data analysis awards
- DASSL data linkage PoC award
- Panel Observers

National Open Research Forum (NORF) Phase 2   
Irish ORCID Consortium  
**HRB policy on sharing and managing research data**  
HRB Open Research Phase 2  
FAIR DMP pilot Phase 2: International review of DMPs  
HRB national GDPR and national ethics roles (potential for synergies)  
Researcher access to Irish COVID-19 Data Hub  
EU reform of Research Assessment  
EU Joint Action Towards a European Health Data Space



2016

2017

2018

2019

2020+

# HRB Strategy 2021-2025



To ensure that HRB funded research can have the **greatest possible impact** by increasing:

- Openness and transparency
- Reproducibility and replicability – research validation
- Acceleration of knowledge and its application - innovation
- Interoperability across different domains and disciplines
- Discoverability and accessibility and (Re)Usability - less research waste

# HRB Strategic Objective 3



**Promote and enable the use of data to shape health policy, enhance healthcare delivery, and drive broader research and innovation initiatives**



*Trusted data*



# HRB Strategic Objective 3



Promote and enable the use of data to shape health policy, enhance healthcare delivery, and drive broader research and innovation initiatives

*Trusted data*

- National, applied data infrastructure supports research for health, social care and well-being
- An active partner in EU initiatives that support a common European health data space
- HRB's national health information systems support policy, planning, service delivery and research
- HRB data and evidence inform the implementation of the national drugs and alcohol strategies
- Patients, the public, researchers and policy-makers have confidence in the way that health data are used for research
- Health research and data in Ireland is open and FAIR

# HRB Research Data Management and Sharing Policy

- Mandated for new Calls from January 2020
- Alignment with FAIR principles
- Unless justification is provided, all underlying data must be made openly available – at a minimum, data that underlies all publications
- All metadata must be made openly available
- DMP requirement:
  - Aligned to Science Europe DMP guidelines;
  - HRB DMP template available on DMP Online;
  - Declaration from Host Institution;
  - Submissions for successful awards – at start and end of award
- Desire to implement at a national level

# HRB Open Research

HOW TO PUBLISH ▾

ABOUT ▾

MY ACCOUNT ▾

SIGN IN

ARTICLES COMING SOON

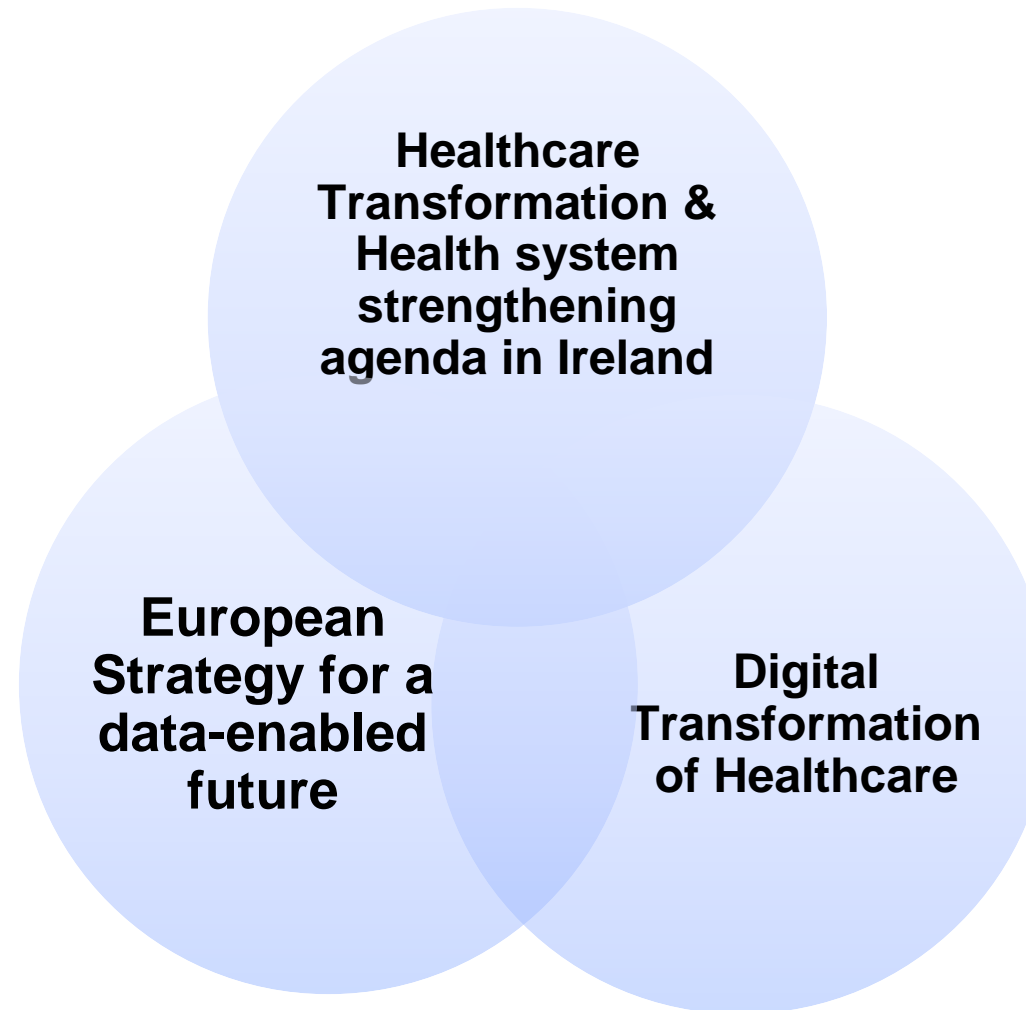
## Immediate & Transparent Publishing

HRB Open Research is a platform for HRB-funded researchers to rapidly publish their research outputs in an open and accessible way

[SUBMIT YOUR RESEARCH](#)

# Relevant National and EU Policy Agenda

- European Strategy for Data
- Data Governance Act
- GDPR and e-privacy Directive
- EU Recommendation on EHR exchange format and e-health network
- European Health Data Space
- EU Reference Networks
- One Health Action Plan-AMR
- HERA and pandemic preparedness
- European Open Science Cloud



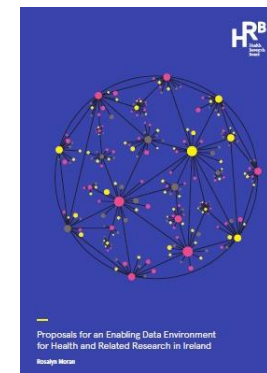
**Critical opportunity to bridge otherwise disconnected areas and deliver a modern and trusted health data system in Ireland that can also collaborate in Europe**

- Electronic Health records
- Remote Care/telehealth
- Artificial Intelligence
- Personalised Medicine
- Genomic Medicine
- Robotics
- Wearables
- Assisted Living

# Progress

# TEHDAS

Towards  
European  
Health  
Data  
Space





# Veronica Cunningham - Marine Institute



An Roinn Breisoideachais agus Ardoideachais,  
Taighde, Nuálaíochta agus Eolaíochta  
Department of Further and Higher Education,  
Research, Innovation and Science

# Implementing Open Science policies: perspectives from institutions and funders

- Marine Institute – Marine Data Source
- Marine Institute – Research Performer
- Marine Institute – Research Funder



# Implementing Open Science policies: perspectives from institutions and funders

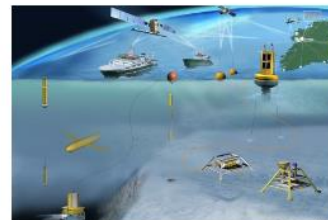
- Marine Data Source & Research Performer – Significant work already undertaken [Marine Data Centre](#), [Marine Institute Data Policy](#) and Data Management Quality Management Framework.
- [Marine Institute Open Access Repository](#).
- Data Stewards in place for each Service Group.

## Ireland's Digital Ocean



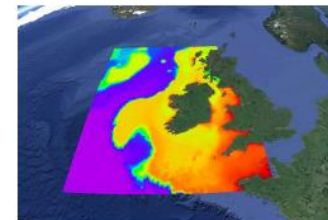
Ireland's Integrated Digital Ocean is a platform providing access to a diverse range of services including online maps, data dashboards, data access, data search and publications.

## Real Time Observations



In order to make information available to users to help them make decisions around their marine activities, data collected by offshore buoys, tide gauges and vessels are often shared in real-time.

## Marine Forecasts



Forecast models have been used in weather forecasting for decades. In recent years, oceanographers have used mathematical models of the ocean to produce similar forecast conditions for the ocean.

## Ireland's Marine Atlas

- Find Data
- Download Data
- Request Data
- Shellfish Safety Data
- Data Policy
- Disclaimer



## Access Data

Search for, discover, view and download data through our online data discovery services.

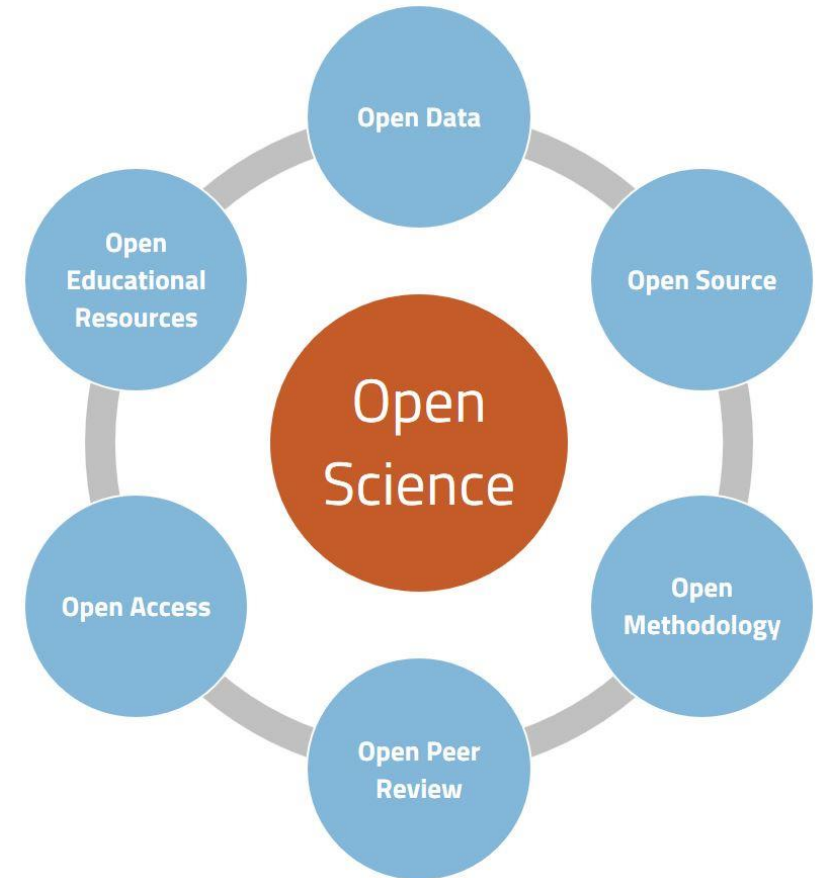
# Implementing Open Science policies: perspectives from institutions and funders

- Research Funder – Outputs from funded research projects accessible via the Marine Institute's [Research Database](#). Funding for open access publications provided. Investment in tools e.g. DAMVAD and Scopus from Elsevier (impact tracking).



# Implementing Open Science policies: perspectives from institutions and funders

- Challenges – Resourcing (especially for data management staff in current competitive job market), responsibility for legacy project data, costs of long-term storage. Making all aspects open – methodologies and peer review.
- Planned Improvements – Working on improving the functionality of current databases. Core Trust Seal Accreditation (trustworthy data repositories).





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# Closing remarks

# National Tripartite Event

Paddy Howard

Dublin, 28th Sep 2022



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