Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

OpenAIRE

Towards a strategic vision for open repositories in Europe

TARA: the institutional repository dimension

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Trinity College Dublin, the University of Dublin, Ireland

First there was the CRIS …

Maximising impact & saving researchers' time since 2002.

"…an integrated management system to help monitor our progress in research and scholarship and to help manage their support."

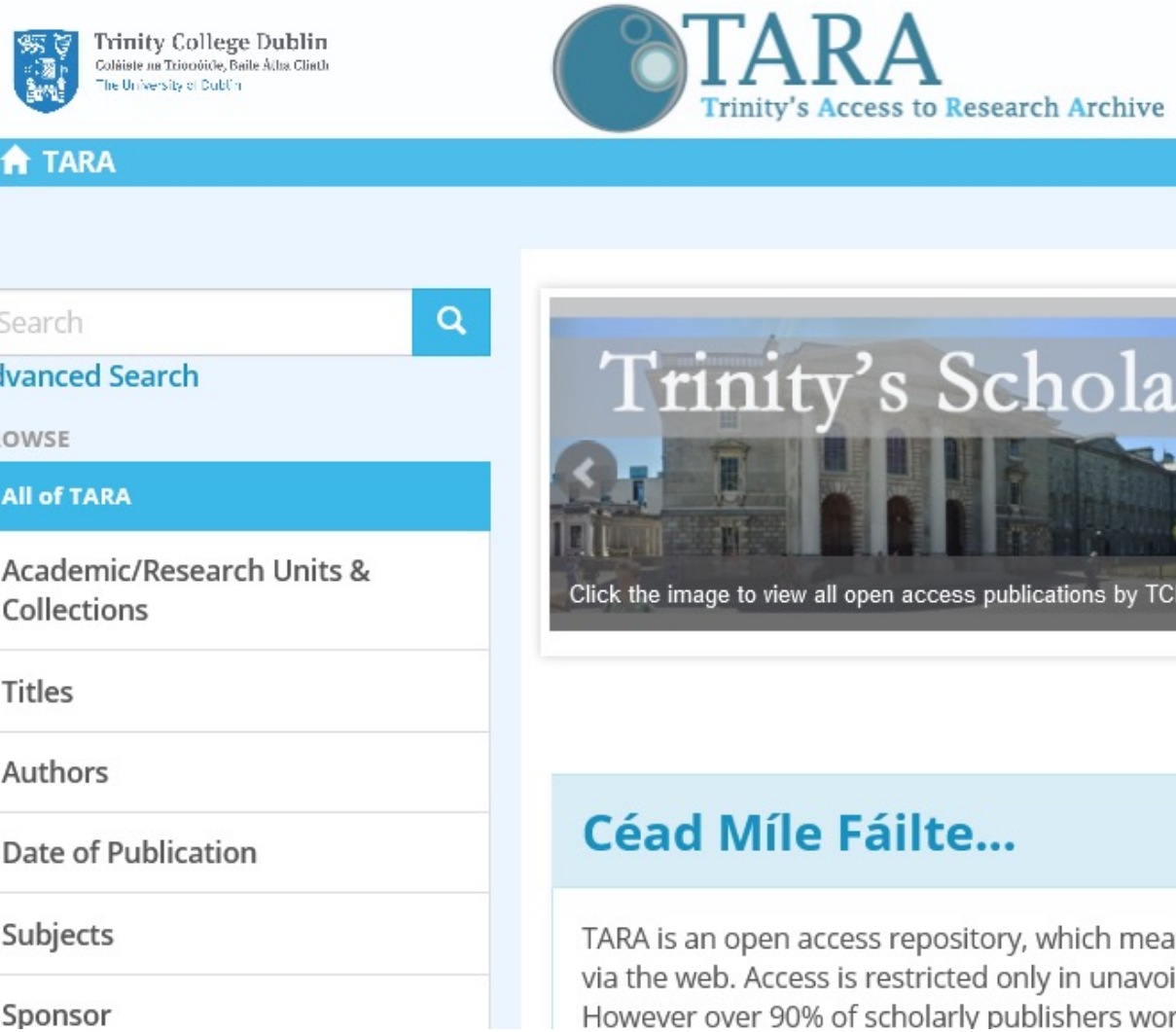
-TCD Strategic Plan, 2002 Chapter 5: Strategy to Realise our Vision of Trinity, Action 18, p26

CERIF*-based structure focuses on: **People** and their **Publications**, **Projects**, **Affiliations** and **Collaborations.**

The RSS supports research profiles from across the whole TCD Research community:

- Academic staff
- Research staff
- Research students
- Administrative and support staff

*Common European Research Information Format



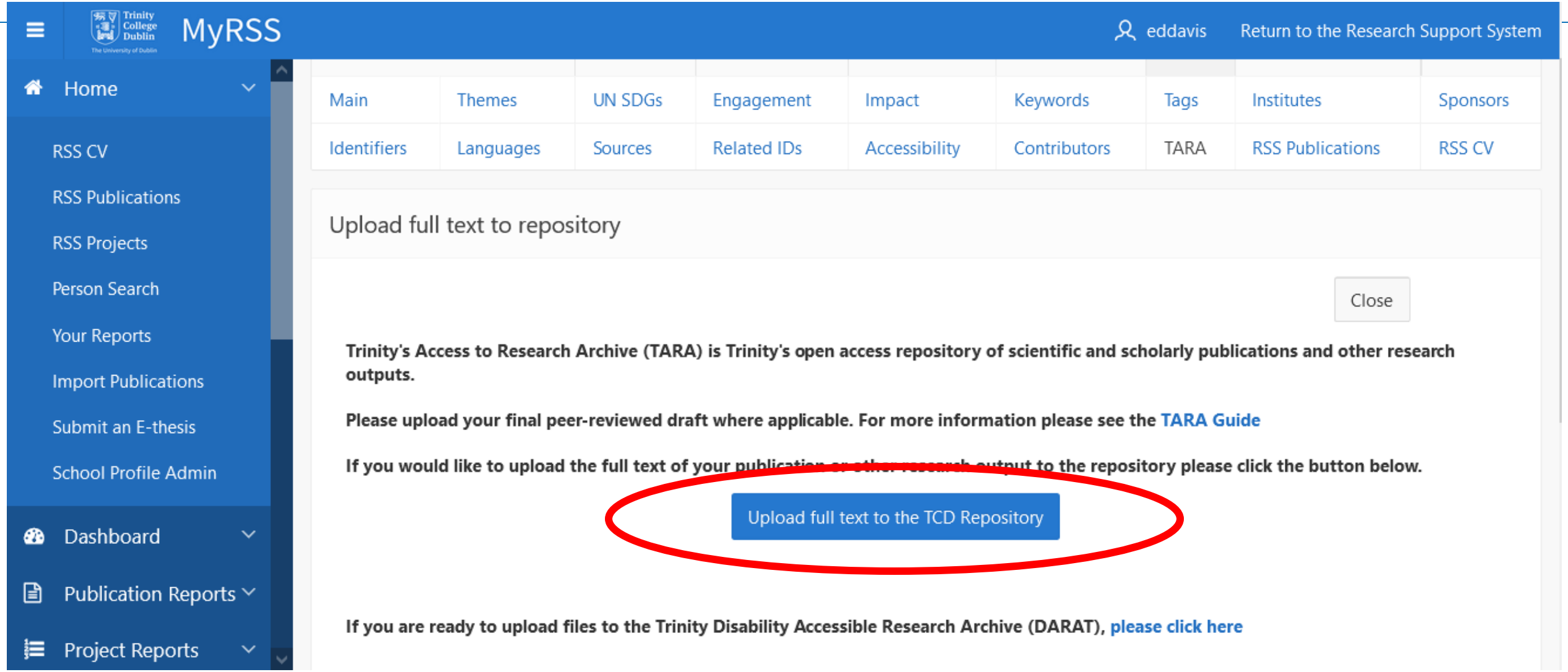
TARA makes available:

TCD research outputs

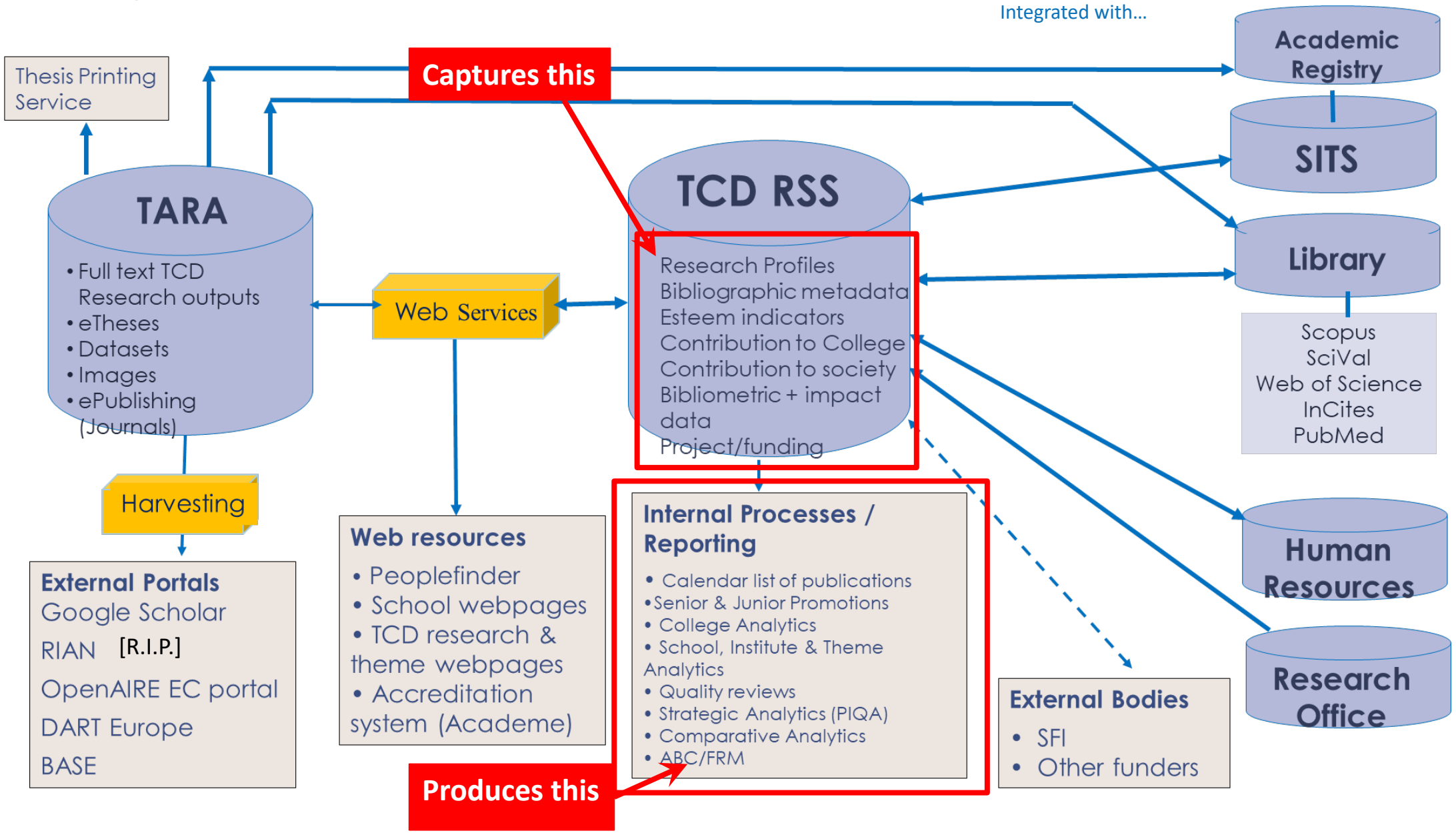
Theses and dissertations

Image collections

Upload to TARA via the RSS



Integrated CRIS & Repository: most integrated information system in the University



About TARA

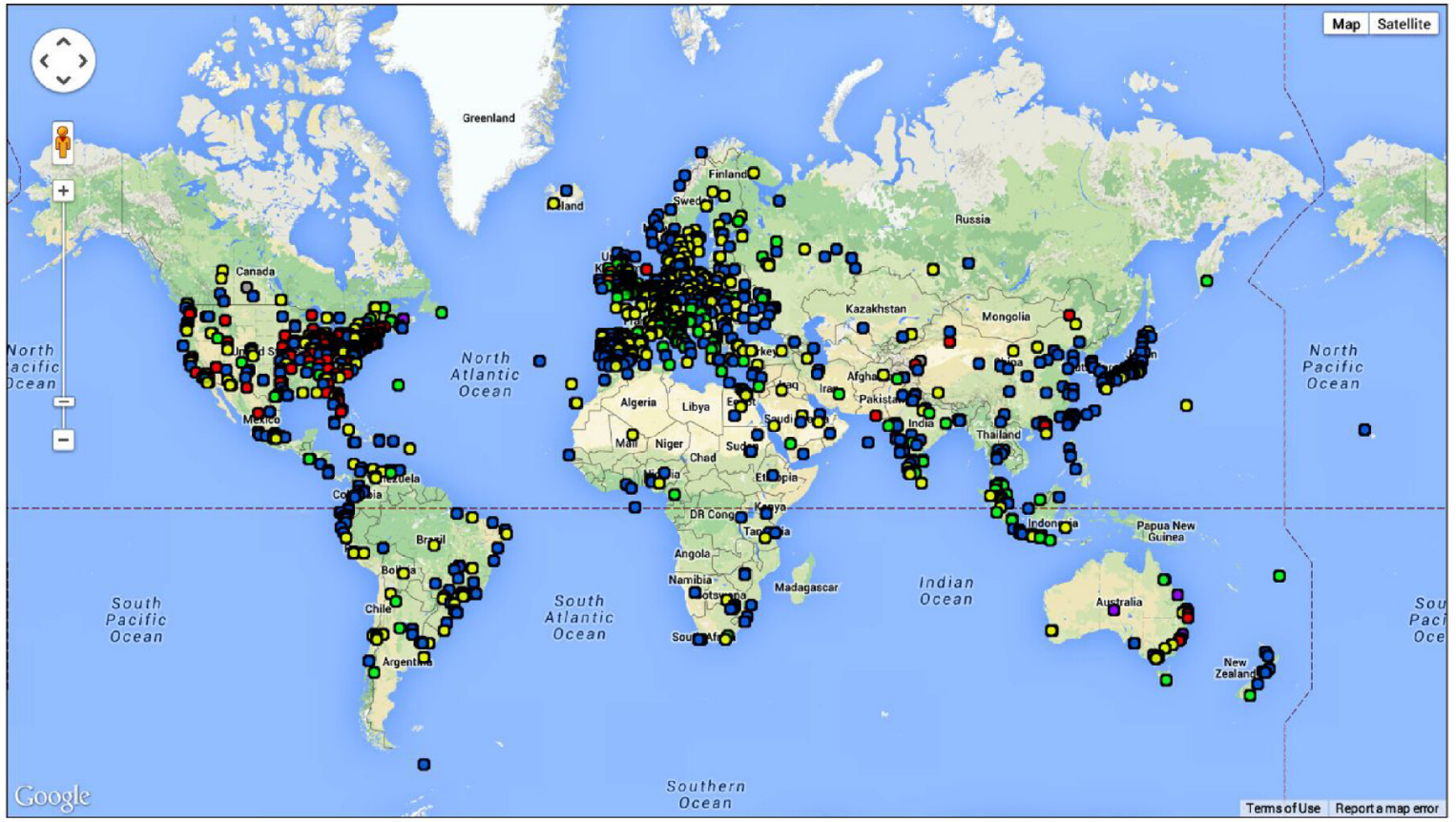
- **Registered in OpenDOAR, ROAR & other repository directories**
- **OpenAIRE compliant, Plan S compliant, Horizon Europe, ERC, Irish funder -compliant**
- **Harvested internally and externally (by OpenAIRE, DART-Europe, BASE, Google and other portals and search engines)**
- **Contains the full range of TCD research outputs, including:**
  - Research publications (books, articles, etc.)
  - Datasets
  - Theses and dissertations (full end-to-end eThesis submission system)
  - Images
  - Entire journal archives

More …

Plus a comprehensive range of training courses for staff and students

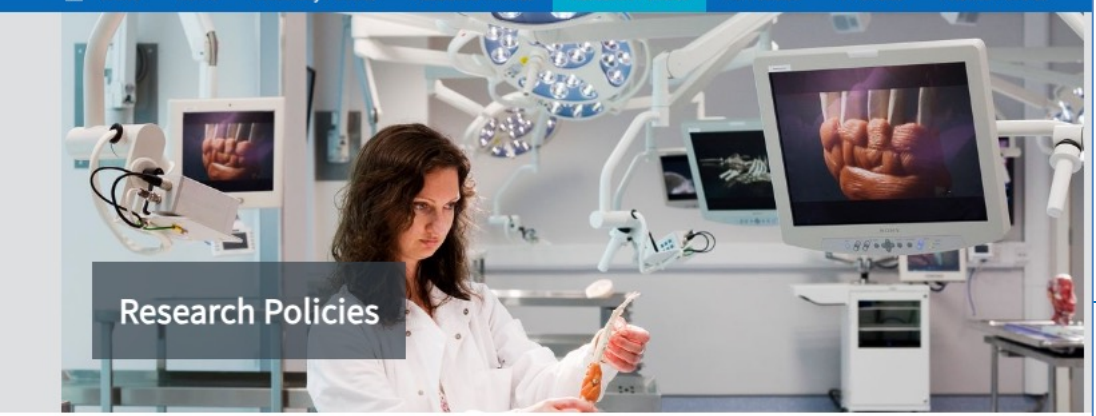
TARA is not alone!

- c.5,000 institutional repositories worldwide regsitered in OpenDOAR (2021)
- Metadata, persistent identifiers and licences provided.
- Metadata harvested & aggregated by services such as OpenAIRE.
- Powerful open, non commercial infrastructure
- Equitable & sustainable
- Libraries of all kinds are involved
- Technical developments, e.g., NOTIFY from COAR



Map of institutional repositories worldwide REGISTERED IN OPENDOAR, 2021*

* https://doi.org/10.1177/01655515231202758



RESEARCH POLICIES

Policies that are relevant to research are found in this section.

If you have any queries, please email policies@tcd.ie for assistance.

- Good Research Practice Policy (PDF, 403.4 KB)
- Academic Freedom Policy (PDF, 312.5 KB)
- Access to Trinity Staff & Students for Research by External Organisations (PDF, 20.6 KB)
- Data Protection Policy (PDF, 230.5 KB)
- College Ethics Policy (PDF, 171.2 KB)
- Financial Management of Research Grants and Contracts (PDF, 730.2 KB)
- Intellectual Property Policy (PDF, 841.5 KB)
- Sponsorship of Clinical Trials and Studies (PDF, 467.9 KB)
- Trinity Open Access Publications Policy (PDF, 339.2 KB)
- Trinity Research Centres Policy (PDF, 229.2 KB)
- Trinity Research Institutes Policy (PDF, 524.4 KB)

TCD Open Access Publications Policy 2010 –

TCD Open Access Policy

"...each staff member and research student will provide, immediately upon acceptance for publication, an electronic copy of the final-peer-reviewed draft of each article..."

— Trinity College Dublin Open Access Publications Policy

TCD Strategic Plan

> “ Lead on Open Scholarship and promote Open Access publication”.

https://www.tcd.ie/strategy/

LE
RU

Note from the League of European Research Universities

14 December 2020

Implementing Open Science

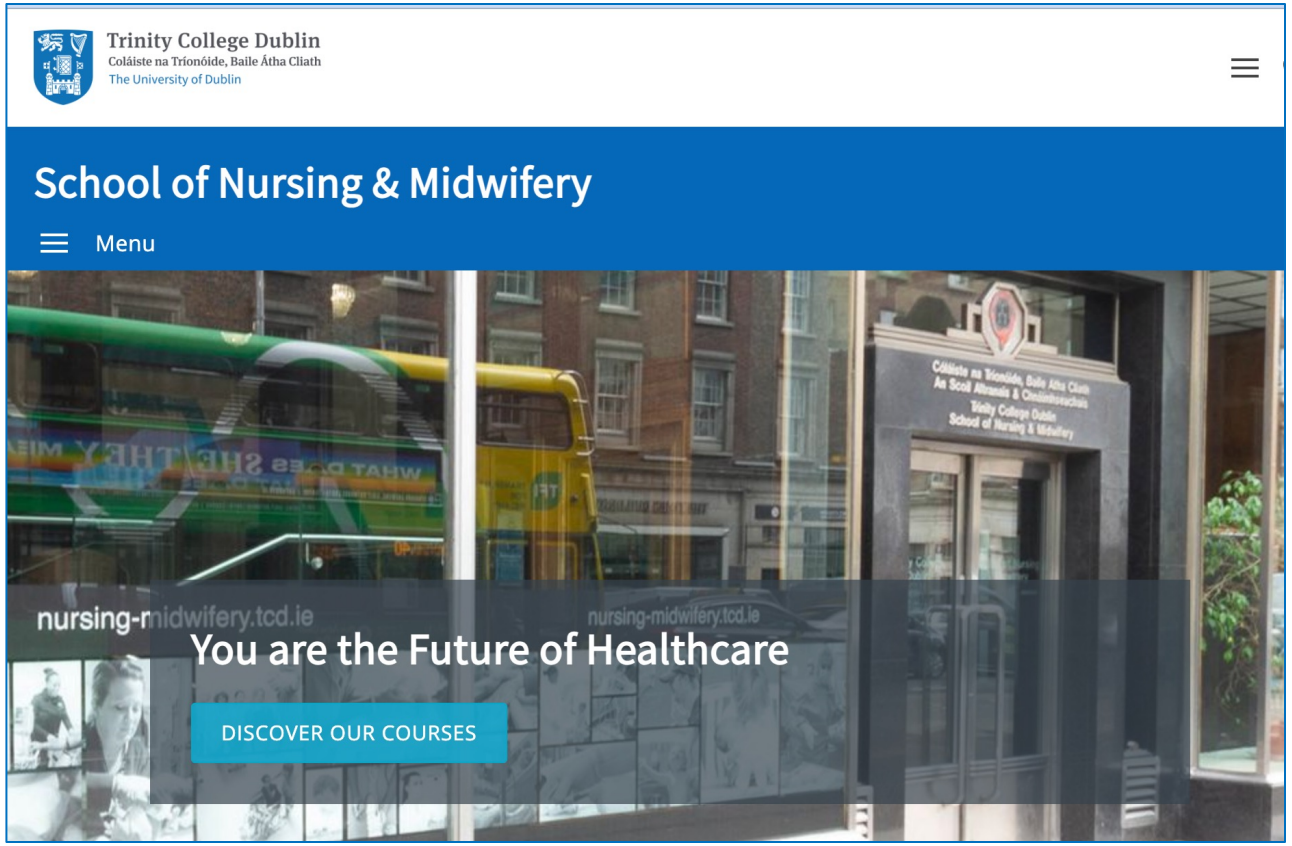
Challenges and Opportunities for research-intensive universities in LERU

Incentivization of Open Access at the School level
(linked to TCD Faculty Research Productive metrics)

Recognition & reward for Open Access for each peer reviewed journal article or book chapter (authored or co-authored) that are uploaded to TARA

Initiated in 2023 as part of the School of Nursing & Midwifery Research Maintenance Grant programme.

Increase in OA deposits in TARA of <u>almost 300% in the past year.</u>



Repositories for

Impact

- **Increased citations**
- **Access for policy-makers**
- **Access for enterprise, innovation**
- **Support for UN SDGs**
- **Equitable, no fees global access**
- **Content easily discoverable via Google and other search engines**
- **FAIR and interoperable: optimized metadata, persistent identifiers, Creative Commons licences**

Repositories for

Equity

DARAT: Disability Accessible Research Archive

- **Open Access Article +**
- **Plain text summary +**
- **Audio +**
- **Video with Irish Sign Language**

P.I.: Dr Edurne Garcia Iriarte. *TCD School of Social Work & Social Policy.*

Repositories for

Trust

Datasets accompanying & validating publications

TARA
Trinity's Access to Research Archive

Home Submit Login

Dataset asssociated to "Electrocatalysis of N-doped carbons in the oxygen reduction reaction as a function of pH: N-sites and scaffold effects"

Iannaci, Alessandro; Behan A., James; Domínguez, Carlota; N. Stamatin, Serban; Hoque, Md. Khairul; Vasconcelos, Joana M.; Perova, Tatiana S.; Colavita, Paula (Trinity College Dublin, 2019)
Dataset associated to "Electrocatalysis of N-doped carbons in the oxygen reduction reaction as a function of pH: N-sites and scaffold effects"

Dataset associated to Tailored glycosylated anode surfaces: Addressing the exoelectrogen bacterial community via functional layers for microbial fuel cell applications

Iannaci, Alessandro; Myles, Adam; Flinois, Thomas; Behan, James; Barrière, Frédéric; Scanlan, Eoin; Colavita, Paula (Trinity College Dublin, 2020)
Dataset associated to the article "Tailored glycosylated anode surfaces: Addressing the exoelectrogen bacterial community via functional layers for microbial fuel cell applications"

Dataset associated to Bioinspired electro-permeable glycans on carbon: Fouling control for sensing in complex matrices

Iannaci, Alessandro; Behan A., James; Myles, Adam; Whelan, Éadaoin; Scanlan, Eoin; Colavita, Paula (Trinity College Dublin, 2020)
Dataset associated with the article "Bioinspired electro-permeable glycans on carbon: Fouling control for sensing in complex matrices"

Dataset for MoS2/carbon heterostructured catalysts for the hydrogen evolution reaction: N-doping modulation of substrate effects in acid and alkaline electrolytes

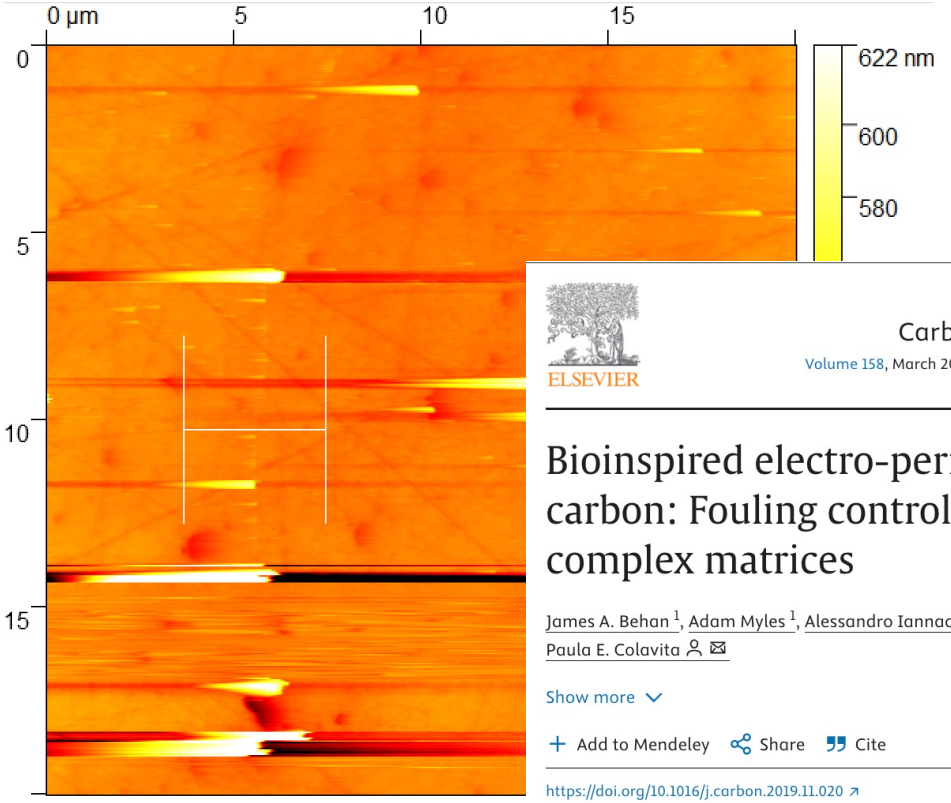
Nolan, Hugo (Elsevier, 2023)

Hyperlinked compendium of nature-based solutions projects 2016-2026

Collier, Marcus (European Commission, DG Research and Innovation, 2022)

Unconfined Compression Strength and Point Load Index dataset for Irish rocks

Unknown author (Trinity College Dublin, 2022)



ELSEVIER

Carbon
Volume 158, March 2020, Pages 519-526

Bioinspired electro-permeable glycans on carbon: Fouling control for sensing in complex matrices

James A. Behan [1], Adam Myles [1], Alessandro Iannaci, Éadaoin Whelan, Eoin M. Scanlan, Paula E. Colavita

Show more

Add to Mendeley Share Cite

https://doi.org/10.1016/j.carbon.2019.11.020 Get rights and content

Abstract

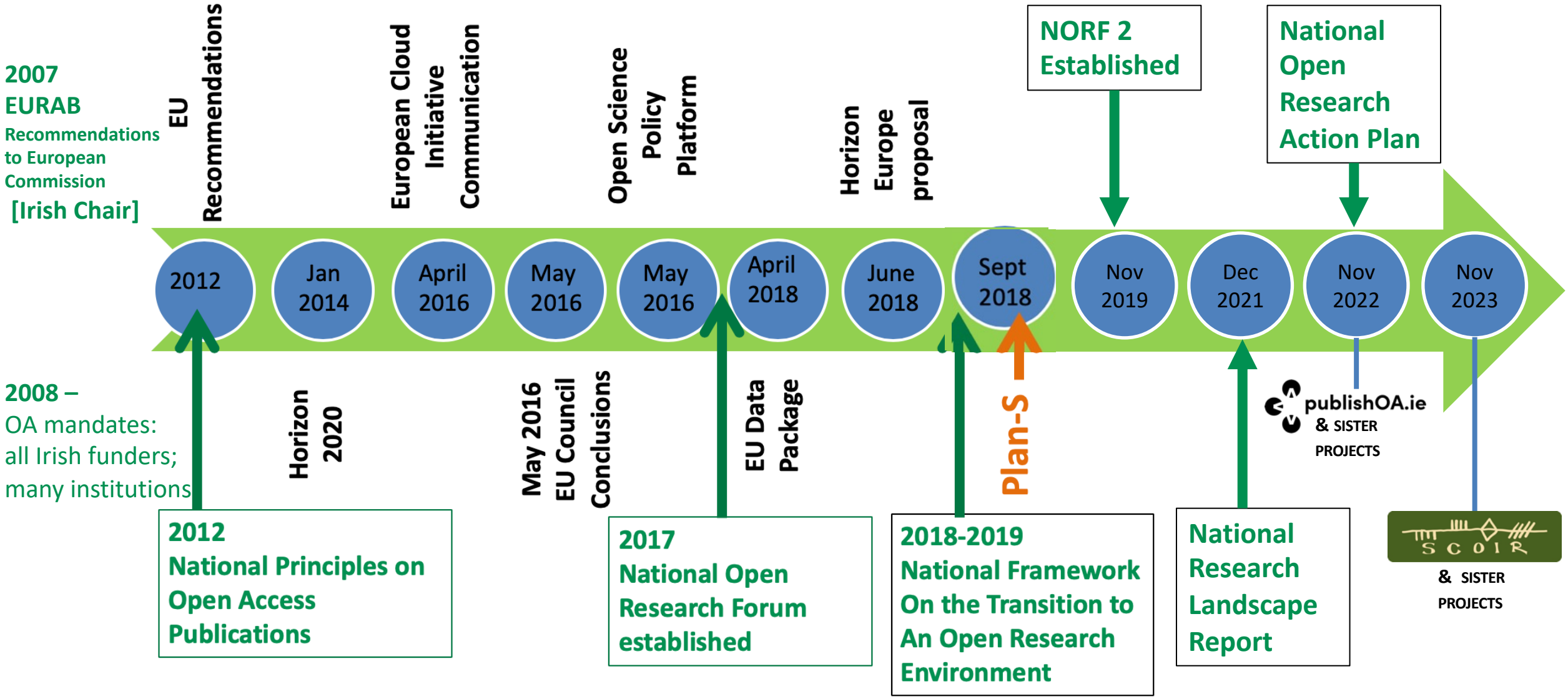
The effect of glycan adlayers on the electrochemical response of glassy carbon electrodes was studied using standard redox probes and complex aqueous matrices. Aryldiazonium cations of aryl-lactoside precursors were used to modify glassy carbon via spontaneous and electrochemically assisted covalent grafting. Contact angle and fluorescence binding using Peanut Agglutinin (PNA) as a diagnostic lectin indicate that electrografting results in adlayers with greater glycan surface density than those obtained via spontaneous reaction. X-ray photoelectron spectroscopy with a fluorinated analog confirmed that

Repositories for

Innovation

- **Access to research for enterprise, innovation**
- **Support for Diamond Open Access**
- **CRIS integration brings multiple benefits for reporting**
- **TARA includes eDeposit Ireland (voluntary electronic legal deposit)**
- **Current upgrade will support even more interoperability & discoverability**

Irish Open Access Policy Timeline



Rialtas na hÉireann
Government of Ireland

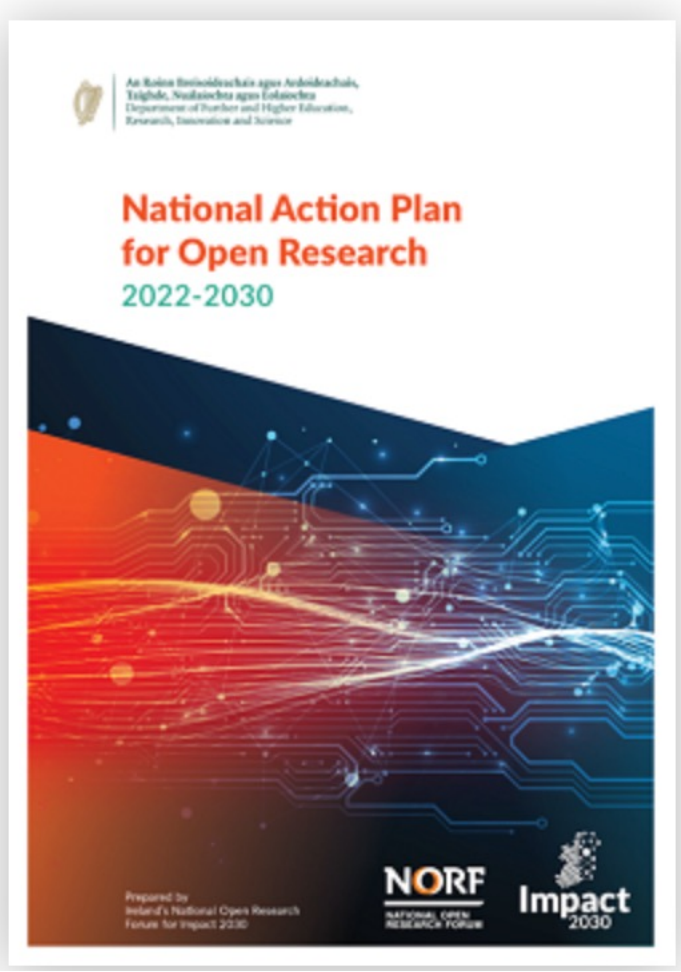
"Strengthen support for key cross-cutting policy agendas including Open Research and Research Integrity"

"… progress was made in particular on the Open Research and Research Integrity agendas as a result of the dedication of associated working groups: the **National Open Research Forum** and the National Research Integrity Forum respectively. We will support continued progress on these key policy agendas, positioning Ireland as an international model of best practice".

NATIONAL OPEN RESEARCH ACTION PLAN

“A4.1 Strengthen Ireland’s network of open access repositories.”

“A4.1.1 Conduct a national programme of open access repository assessment and alignment to deliver standardised metadata nationally while building and aligning infrastructure according to international best practice. For example, OpenAIRE guidelines, Plan S requirements, and evolving practice.”



NORF
FÓRAM NÁISIÚNTA NA HÉIREANN UM THAIGHDE OSCAILTE
NATIONAL OPEN RESEARCH FORUM

The National Open Research Forum supports multiple projects – see norf.ie

Action 1: National Open Access Monitoring

PROJECT LEAD: CATHERINE FERRIS

READ MORE

Action 2: Open Access Repository Assessment and Alignment

PROJECT LEAD: CILLIAN JOY

READ MORE

Action 3: Open Access Transition Programme

PROJECT LEAD: RUTH HEGARTY

READ MORE

Action 4: Open Research Training Programme

PROJECT LEAD: DERMOT LYNOTT

READ MORE

Action 5: National Data Stewardship Network

PROJECT LEAD: AOIFE COFFEY

READ MORE

Action 6: Shared Data Storage Service Pilot

PROJECT LEAD: ROBERTO SABATINO

READ MORE

National Monitor

Open Access with Licence (2023)

MONITOR | BROWSE RESEARCH PRODUCTS

Scholarly Production | Historical Snapshots | Access Rights | OA Routes | FAIR | Plan S | APCs | Cross-Country

All Publications
566,903

Peer Reviewed Publications
473,847

OA Peer Reviewed Publications w/ Licence
185,734

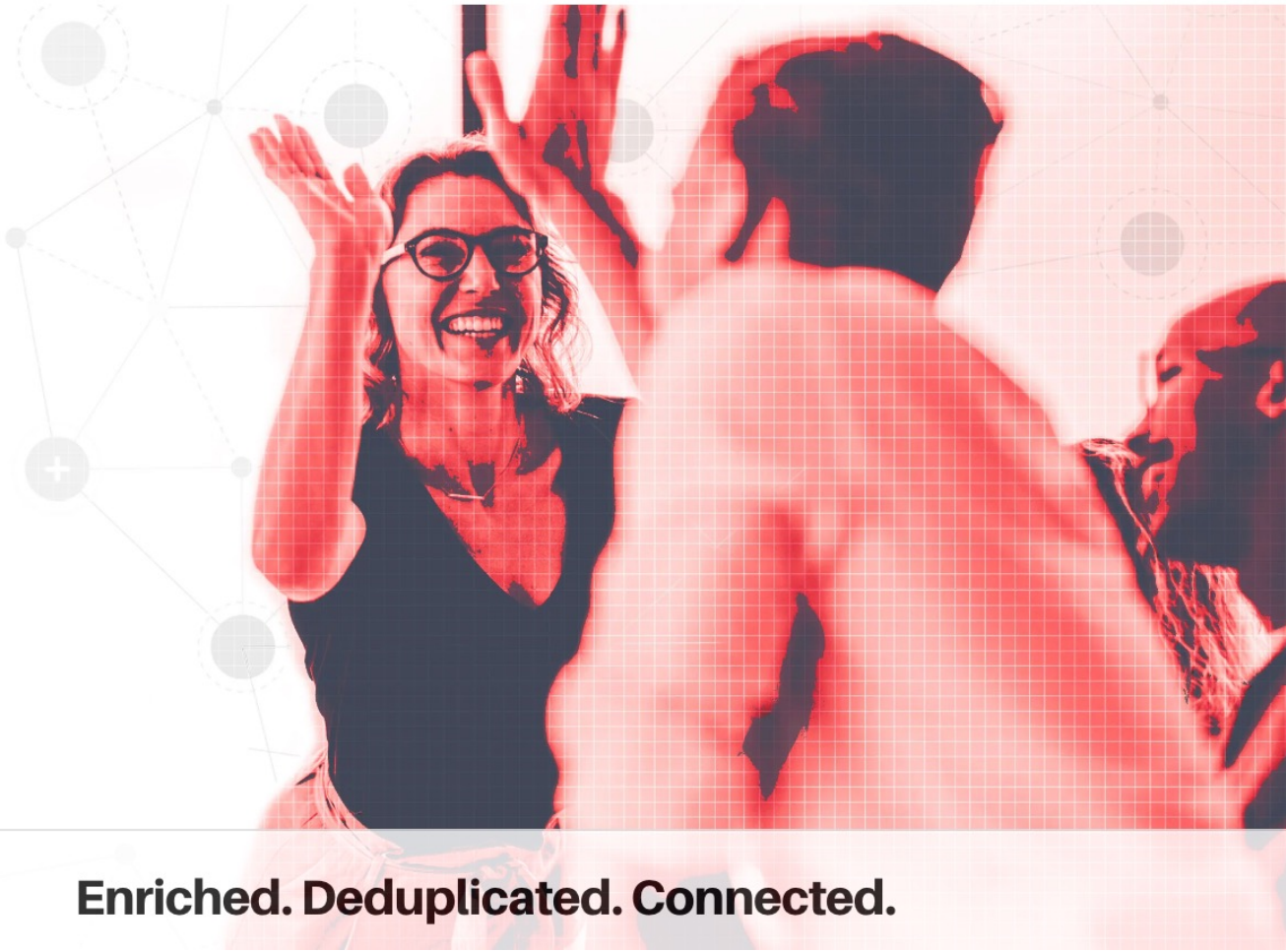
OpenAIRE Graph

About | Use / Contribute | Community | Support | Documentation | Explore the Graph

A Global Scholarly Knowledge Graph

Open. Transparent. Interconnected.

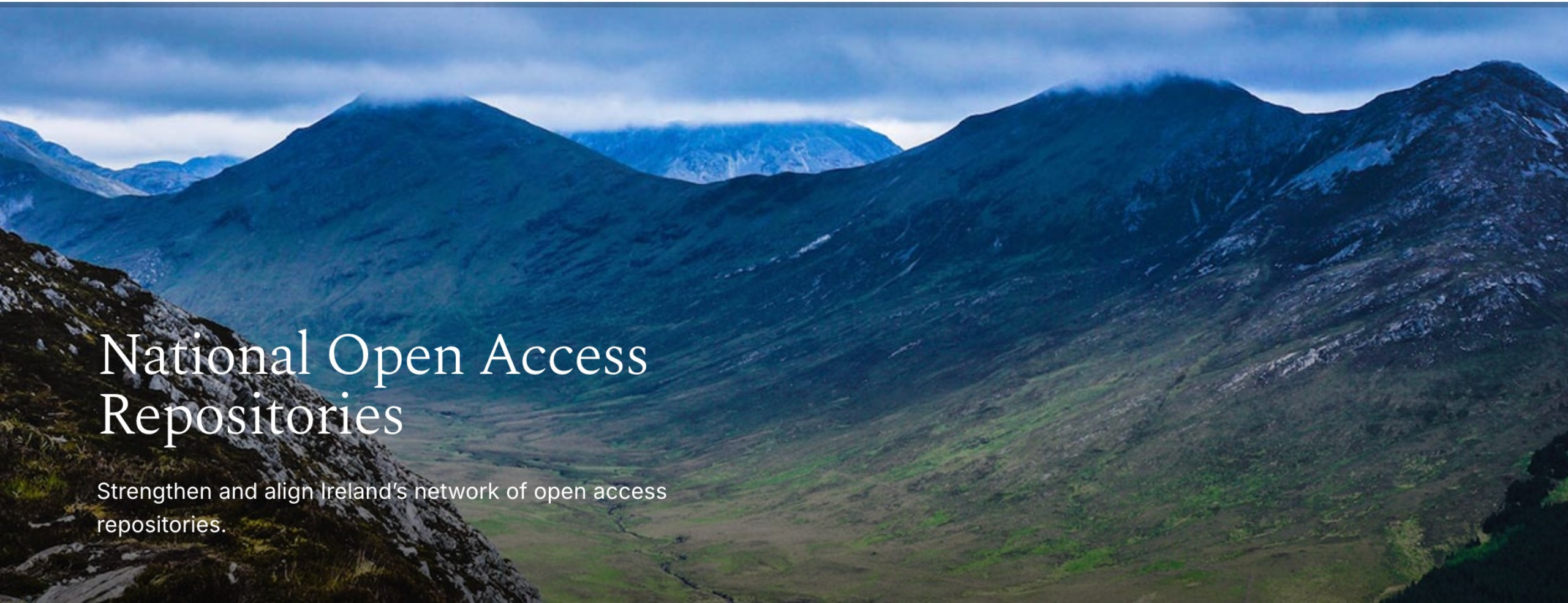
Learn more



282.4 M research products

Enriched. Deduplicated. Connected.

Click to go back, hold to see history



National Open Access Repositories

Strengthen and align Ireland's network of open access repositories.

Ollscoil na Gaillimhe
University of Galway

Advancing Ireland's Open Repository Landscape: A Strategic Roadmap

Funders

NORF National Open Research Forum

Rialtas na hÉireann Government of Ireland

HEA Higher Education Authority An Údarás um Ard-Oideachas

This project has received funding from Ireland's Open Research Forum (NORF) under the Open Research Fund Call.

Ollscoil na Gaillimhe University of Galway | An Leabharlann Library

NORF National Open Research Forum

Strategic Roadmap for Advancing Ireland's Open Repository Landscape:

A Brief for Leaders

Authors: Dr Christopher Loughnane, Dr Cillian Joy

https://www.universityofgalway.ie/openrepositories

Ollscoil na Gaillimhe University of Galway | An Leabharlann Library

NORF National Open Research Forum

Recommended Actions

Challenge	Action
Visibility and Outreach	Align repository efforts with institutional strategies, enhance visibility through targeted outreach and collaboration.
Metadata Quality and Compliance	Encourage repository staff to adopt consistent metadata standards, work with Open Repositories Ireland, and provide staff training and support.
Resources	Support local staffing and advocate for national funding in technical infrastructure and training.

Why Open Repositories?

- Provide free and **open access to research**
- Manage and **preserve** your institution's valuable research outputs
- Participate as a node in a growing **non-commercial alternative** (Diamond and Green) to the commercial publishing system.

ORI
OPEN REPOSITORIES IRELAND

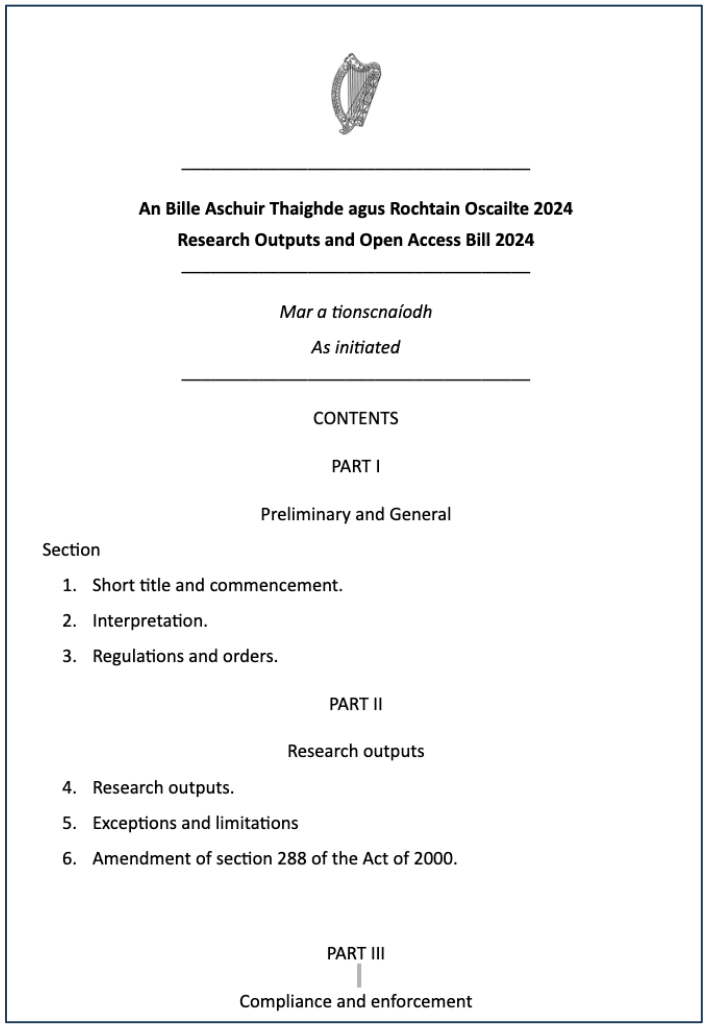
Community Network

ORI provides a collaborative platform

ORI is for open repository managers and practitioners to share knowledge, develop best practices, and advocate for open research supported by their institutional research ecosystems.

Register for ORI

Draft Legislation (under consultation)



An Bille Aschuir Thaighde agus Rochtain Oscailte 2024
Research Outputs and Open Access Bill 2024

Mar a tionscnaíodh
As initiated

CONTENTS

PART I

Preliminary and General

Section

1. Short title and commencement.
2. Interpretation.
3. Regulations and orders.

PART II

Research outputs

4. Research outputs.
5. Exceptions and limitations
6. Amendment of section 288 of the Act of 2000.

PART III

Compliance and enforcement

- Covers **all** research outputs
- Author's Accepted Manuscript
- Research outputs must be deposited in institutional or other appropriate repository
- Onus on institutions to support researchers & establish workflows to enable compliance and monitoring
- Monitoring and reporting built-in

https://scoir.moodlecloud.com/pluginfile.php/259/mod_resource/content/3/Copyright%20Open%20Access%20Bill.pdf

publishOA.ie

National Diamond Publishing Platform Feasibility Study & Pilot

Feasibility study on a Diamond OA platform for journals and monographs in Ireland

Timeframe: I November 2022–1 November 2024

https://publishoa-ie.moodlecloud.com/

Objectives

- research and map the landscape of scholarly publishing across all disciplines on the island;
- benchmark Irish scholarly publishing against international good practice in Diamond OA standards, process and infrastructures;
- conduct the feasibility study for a publicly owned, centralised all-island platform for Diamond OA publication of journals and books;
- design, build, test and implement a pilot publishing platform based upon project recommendations, in collaboration with stakeholders;
- publish a set of recommendations for a publicly-owned, centralised platform for Diamond OA publication of journals and books in Ireland.

NORF NATIONAL OPEN RESEARCH FORUM
HEA HIGHER EDUCATION AUTHORITY AN tÚDARÁS um ARD-OIDEACHAS
Rialtas na hÉireann Government of Ireland

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EDITORIAL | 26 November 2024

Act now to stop millions of research papers from disappearing

Digital preservation is not keeping up with the growth of scholarly knowledge. Recognizing its causes is the first step to securing records everywhere for future generations.

include text and data archiving as a requirement in research projects, along with publishing papers … this would mean depositing work in institutional repositories, in cases in which such facilities exist.

Making archiving obligatory would also encourage universities that don't yet operate their own repositories to work towards instituting them.

" … if we adopted this widely, this would be a safeguarding mechanism for the knowledge of our current generation so the future generations can access it." – Hussein Suleman, University of Cape Town

Repositories are developing rapidly

TARA upgrade to Dspace 8 (by early 2025)

COAR Notify Protocol

- **Interoperability**: Enables smooth interaction between the repository and other systems (e.g., repositories, data platforms) through standardized notifications.
- **Enhanced Discoverability**: Improves the visibility and access of digital objects by ensuring that changes and new content are promptly communicated to interested parties.

- ✓ **Enhances impact**
- ✓ **Adds functionality**
- ✓ **Adds capacity**
- ✓ **Automation of ingest**
- ✓ **Diamond Open Access publishing**
- ✓ **Overlay services (e.g., peer review for pre-prints)**

TARA is just one of thousands of Open Access Institutional Repositories worldwide…

Institutional Repositories …

- Curate their institution's research results & contributions
- Disseminate their institution's research results & enhance visibility
- Enable Open and Responsible Research Assessment.
- Expertise & training

Universities need to…

- Invest/reinforce their infrastructures and services (like IRs and publishing platforms)

  Cooperate with other RPOs and funders
- Sustain "horizontal" services (registries, PIDs, etc.)
- Establish shared infrastructures and services (national Portals or networks, etc.).
- Invest in/reinforce the staff involved in managing these repositories

Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

OpenAIRE

Go raibh míle maith agaibh!
Thank you!

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@niamhmbrennan