



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



Towards a strategic vision for open repositories in Europe

TARA: the institutional repository dimension

Niamh Brennan
Trinity College Dublin

nbrennan@tcd.ie

Kevin Kiely
Monica Sanchidrián



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



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

[Advanced Search](#)

BROWSE

All of TARA

[Academic/Research Units & Collections](#)[Titles](#)[Authors](#)[Date of Publication](#)[Subjects](#)[Sponsor](#)


Céad Míle Fáilte...

TARA is an open access repository, which means that the full text of research outputs is available via the web. Access is restricted only in unavoidable instances, for example where copyright or other legal considerations apply. However over 90% of scholarly publishers worldwide now allow

TARA makes available:
TCD research outputs
Theses and dissertations
Image collections

Upload to TARA via the RSS

☰



Trinity
College
Dublin
The University of Dublin

MyRSS

eddavis

Return to the Research Support System

Home

RSS CV

RSS Publications

RSS Projects

Person Search

Your Reports

Import Publications

Submit an E-thesis

School Profile Admin

Dashboard

Publication Reports

Project Reports

Main	Themes	UN SDGs	Engagement	Impact	Keywords	Tags	Institutes	Sponsors
Identifiers	Languages	Sources	Related IDs	Accessibility	Contributors	TARA	RSS Publications	RSS CV

Upload full text to repository

Close

Trinity's Access to Research Archive (TARA) is Trinity's open access repository of scientific and scholarly publications and other research outputs.

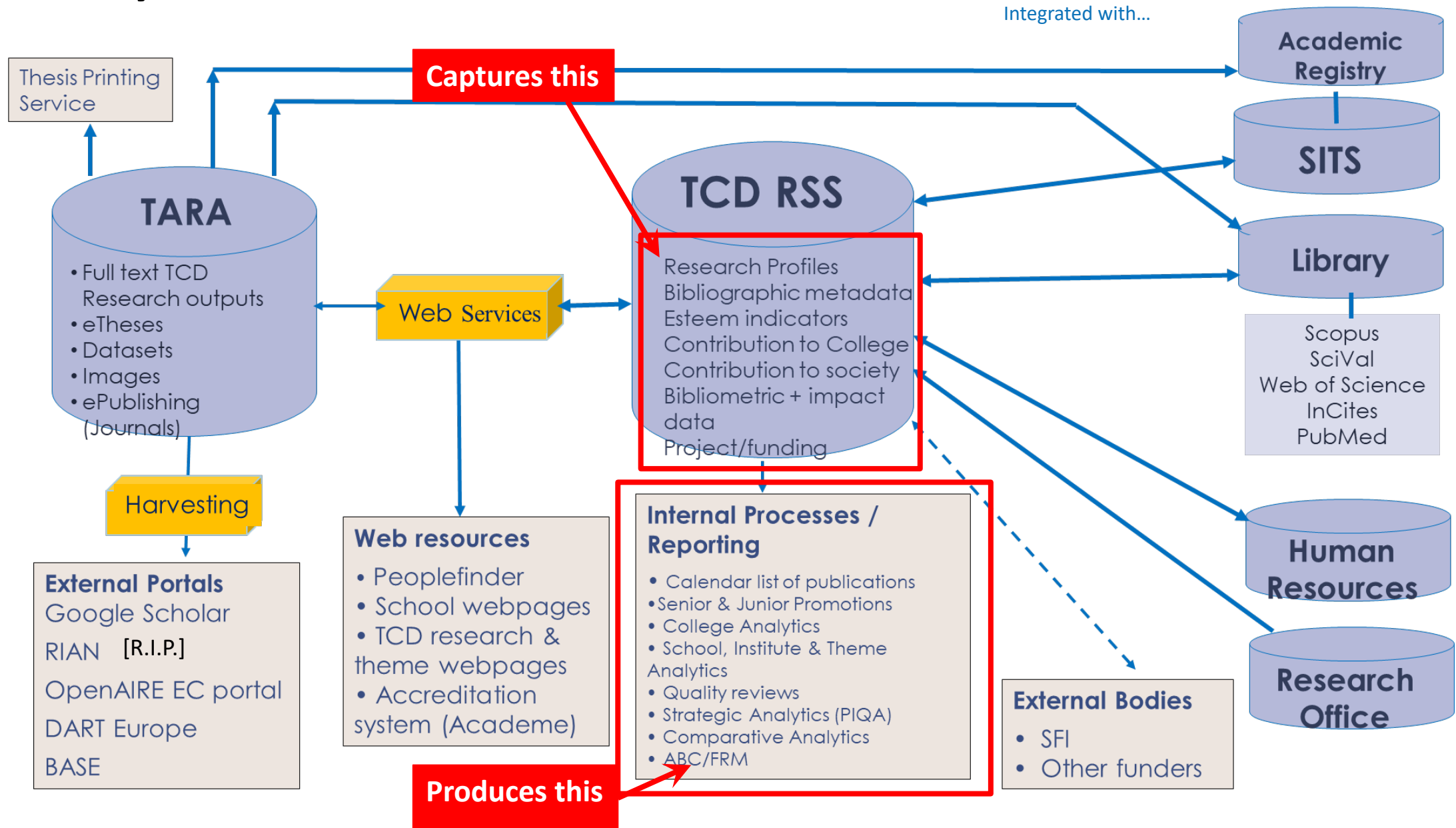
Please upload your final peer-reviewed draft where applicable. For more information please see the [TARA Guide](#)

If you would like to upload the full text of your publication or other research output to the repository please click the button below.

Upload full text to the TCD Repository

If you are ready to upload files to the Trinity Disability Accessible Research Archive (DARAT), [please click here](#)

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



- **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 ...

About TARA

Plus a comprehensive range of training courses for staff and students

Structured PhD Module in Research Integrity and Impact in an Open Scholarship Era

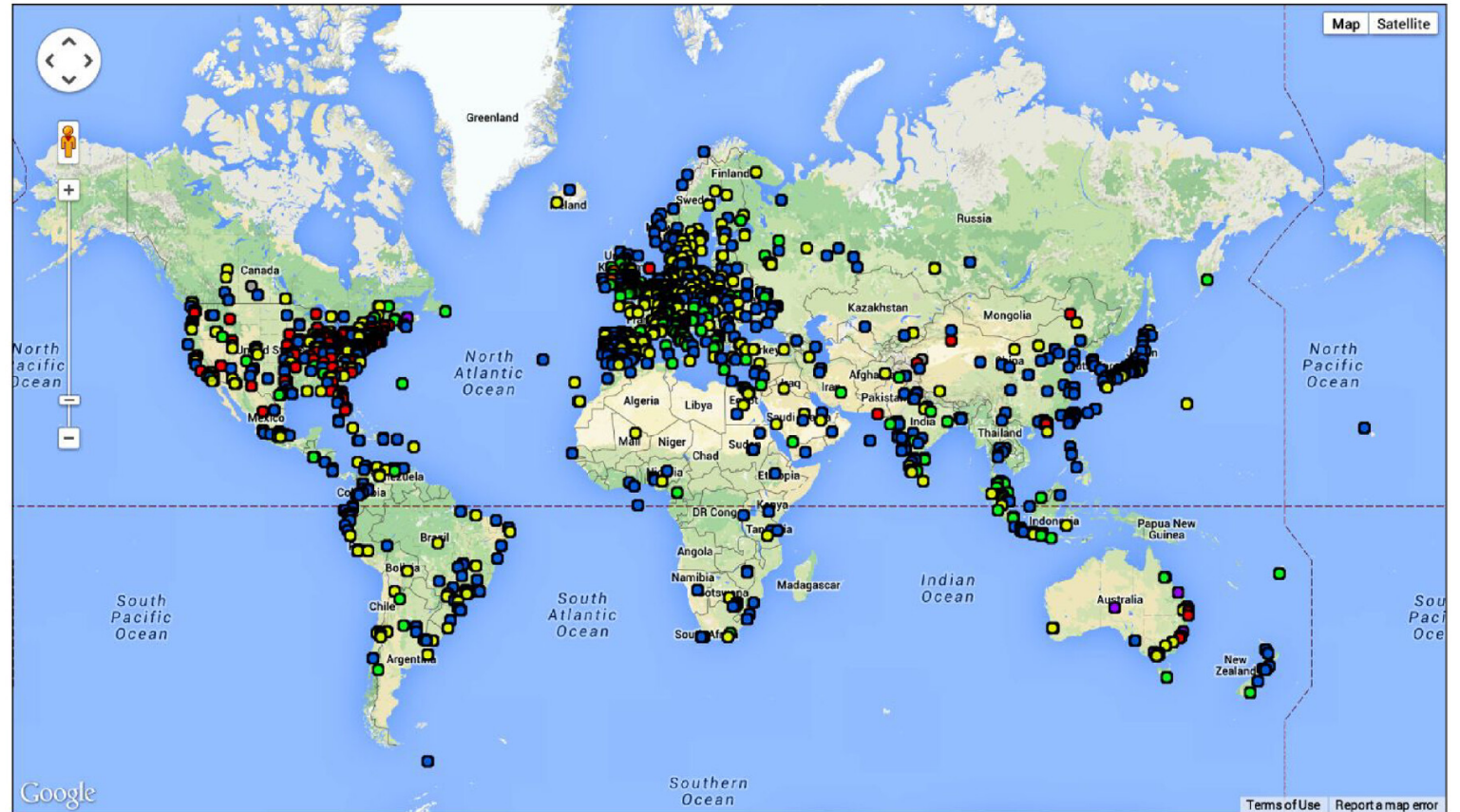
Welcome to your
Module Homepage



Module Overview and Objectives

TARA is not alone!

- c.5,000 institutional repositories worldwide registered 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>

TCD Open Access Publications Policy 2010 –

Research Policies

[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)

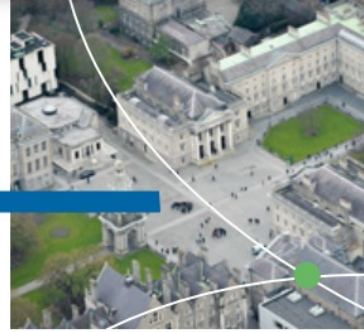
TCD Open Access Policy

"...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

2020-2025

STRATEGIC PLAN



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 almost 300% in the past year.



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.*

An exploration of the bone health of older adults with an intellectual disability in Ireland

OPEN ACCESS   SHARE   

Citation:

Burke, E; McCallion, P., Walsh, J.B., McCarron, M., An exploration of the bone health of older adults with an intellectual disability in Ireland, *Journal of Intellectual Disability Research*, 2016

Download Item:



Burke et al.pdf (Accepted for publication (author's copy) - Peer Reviewed)

File Type:
PDF

Item Type:
Journal Article

Date:
2016

Author:
MCCARRON, MARY
BURKE, EILISH

Access:
openAccess

Bone health matters

Researcher: Eilish Burke

Supervisors: Prof Mary McCarron, Prof Philip McCallion and Prof JB Walsh.

Why was it important to do this research?

This is a study about poor bone health. The name of the condition is osteoporosis. This condition is where your bones become weak and can easily break. Many people have poor bone health and do not know as it does not cause any pain. Many things can cause poor bone health: epilepsy, not doing enough exercise or going through the menopause. There have been studies on bone health among the general population but not very many among people with intellectual disability (ID).

What did the research want to find out?

To find out how many people with ID have poor bone health and to find out what factors were linked to having poor bone health.

How did the researchers do the study?

This study is part of the Intellectual Disability Supplement to The Irish Longitudinal Study on Ageing (IDS-TILDA). We asked a lot of people with ID questions about their health.

What did the researcher find out?

In total 753 people took part in the study. They were aged 40 to 90 years. We found that they had a doctor's diagnosis of poor bone health and 152 people had a broken bone. People over the age of 65 years were six and half times more likely to have poor bone health. Women were four and half times more likely than men to have poor bone health. People with arthritis were four times more likely to have poor bone health. Overall, 15% of the people went to be tested for poor bone health.

Why should people care about it?

An exploration of the bone health of older adults with an intellectual disability in Ireland

E. A. Burke,¹ P. McCallion,³ R. Carroll,¹ J. B. Walsh² & M. McCarron⁴

¹ School of Nursing and Midwifery, Trinity College Dublin, Dublin, Ireland

² Department of Medical Gerontology, Trinity College Dublin, Dublin, Ireland

³ Center for Excellence in Aging and Community Wellness, University at Albany, NY, USA

⁴ Faculty of Health Sciences, Trinity College Dublin, Dublin, Ireland

Abstract

Background Many risk factors have been confirmed for poor bone health among the general population including age, gender and corticosteroid use. There is a paucity of investigation among people with intellectual disability; however, research points to differing risks namely anti-epileptic medication use, Down syndrome and poor behaviour lifestyle. **Methods** Data was extracted from the Intellectual Disability Supplement to the Irish Longitudinal Study on Ageing in Ireland. In total, 753 participants took part, and data was gathered on participants' health status, behavioural health, health screenings and activities of daily living. The prevalence of osteoporosis and related risk factors were specifically examined. **Results** Overall, 8.1% reported a doctor's diagnosis of osteoporosis. 15% of the sample reported a history of fracture.

There was no gender difference regarding the level of fractures; however, epilepsy and anti-epileptic medication were strong predictors. Overall, 11.1% attended for bone screening diagnostics. **Conclusion** Despite low levels of reported doctor's diagnosis of osteoporosis risk factor prevalence was high. Considering the insidious nature of osteoporosis and the low levels of diagnostic screening, prevalence could be possibly higher.

Keywords bone health, developmental disabilities, fracture, intellectual disability, osteoporosis

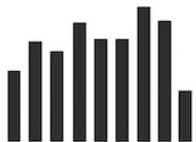
Introduction

Osteoporosis is described as a multifactorial disorder characterised by low bone mass and micro-architectural deterioration of bone tissue leading to increased risk of fracture. The condition is more prevalent in older adults, particularly women, and is a leading cause of disability and mortality. It is often asymptomatic until a fracture occurs, which can have significant consequences for quality of life and independence. The condition is more prevalent in older adults, particularly women, and is a leading cause of disability and mortality. It is often asymptomatic until a fracture occurs, which can have significant consequences for quality of life and independence.



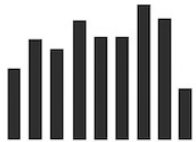
Repositories for **Trust**





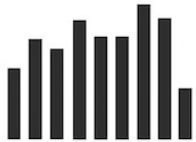
Dataset associated to "Electrocatalysis of N-doped carbons in the oxygen reduction reaction as a function of pH: N-sites and scaffold effects"

Iannaci, Alessandro; Behan A., James; Domínguez, Carlota; N. Stamatini, 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"



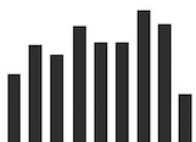
Dataset associated to Tailored glycosylated anode surfaces: Addressing the exoelectrogen bacterial community via functional layers for microbial fuel cell applications

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

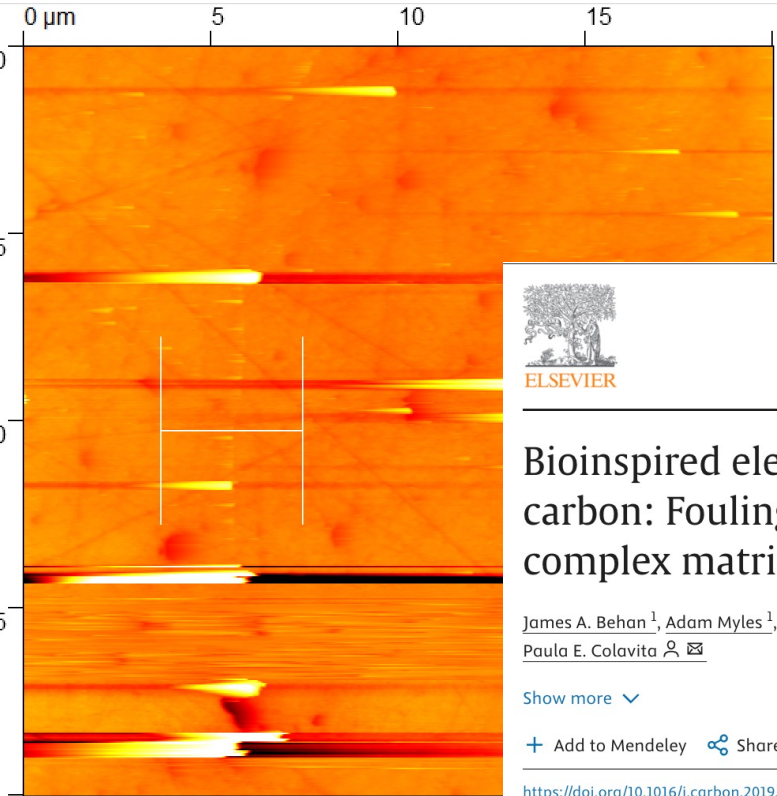
Collier, Marcus (European Commission, DG Research and Innovation, 2022)




Unconfined Compression Strength and Point Load Index dataset for Irish rocks

Unknown author (Trinity College Dublin, 2022)


Datasets accompanying & validating publications










Carbon

Volume 158, March 2020, Pages 519-526





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

James A. Behan¹, Adam Myles¹, 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

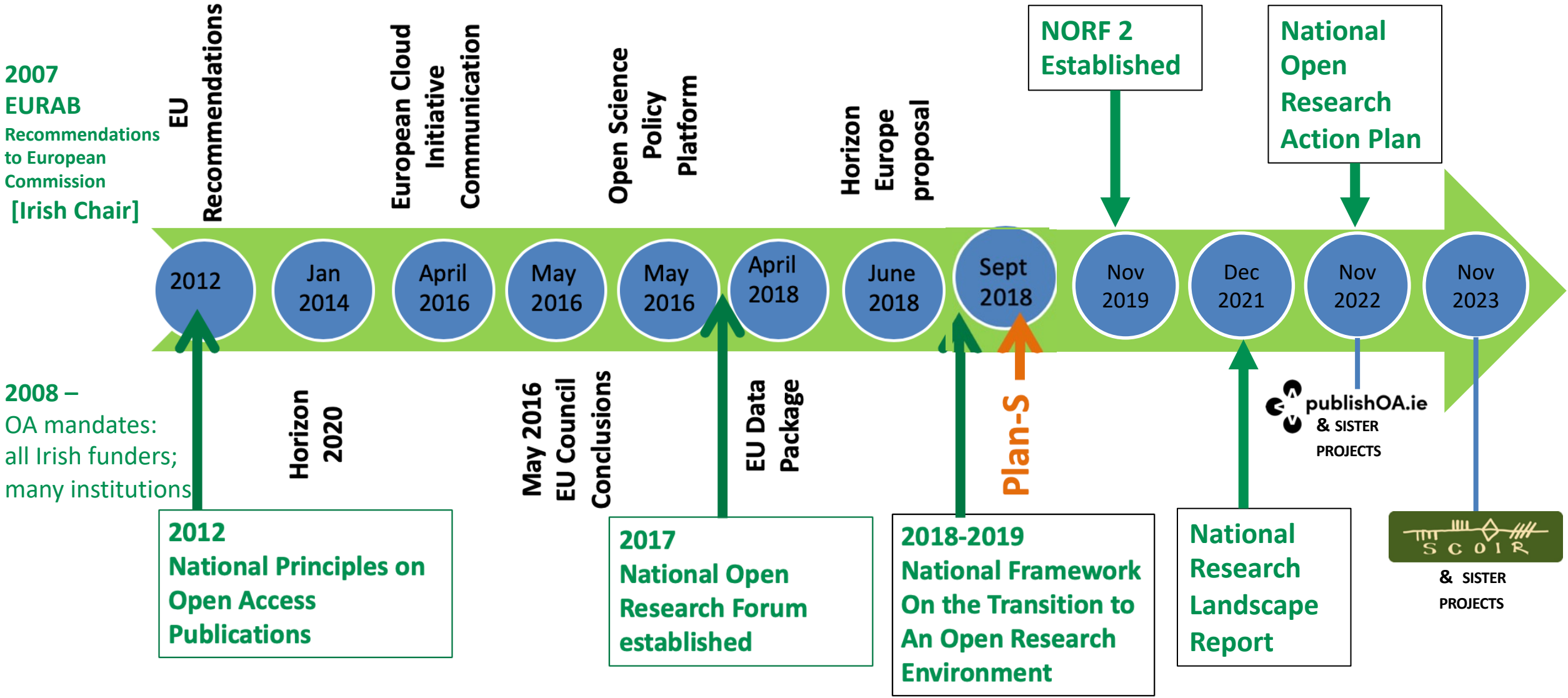
The effect of glycan adlayers on the electrochemical response of glassy carbon electrodes was studied using standard redox probes and complex aqueous matrices. Aryldiazonium cations of aryl-lactoside precursors were used to modify glassy carbon via spontaneous and electrochemically assisted covalent 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





Impact 2030

Ireland's Research and
Innovation Strategy



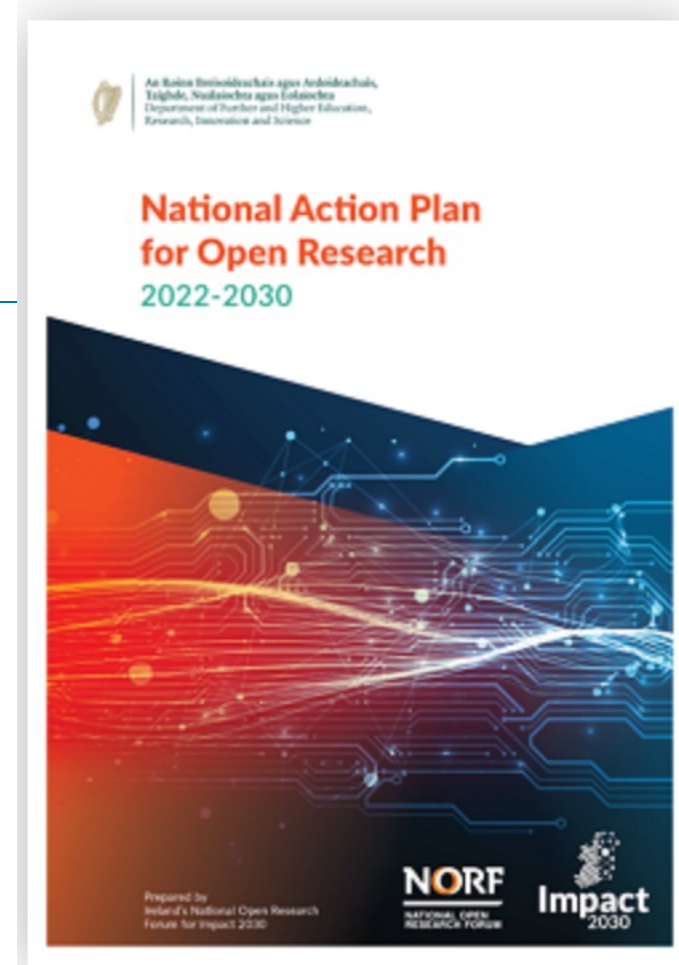
“Strengthen support for key cross-cutting policy agendas including Open Research and Research Integrity”

“... 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.”





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



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



About ▾

Use / Contribute ▾

Community ▾

Support ▾

Documentation



Explore the Graph



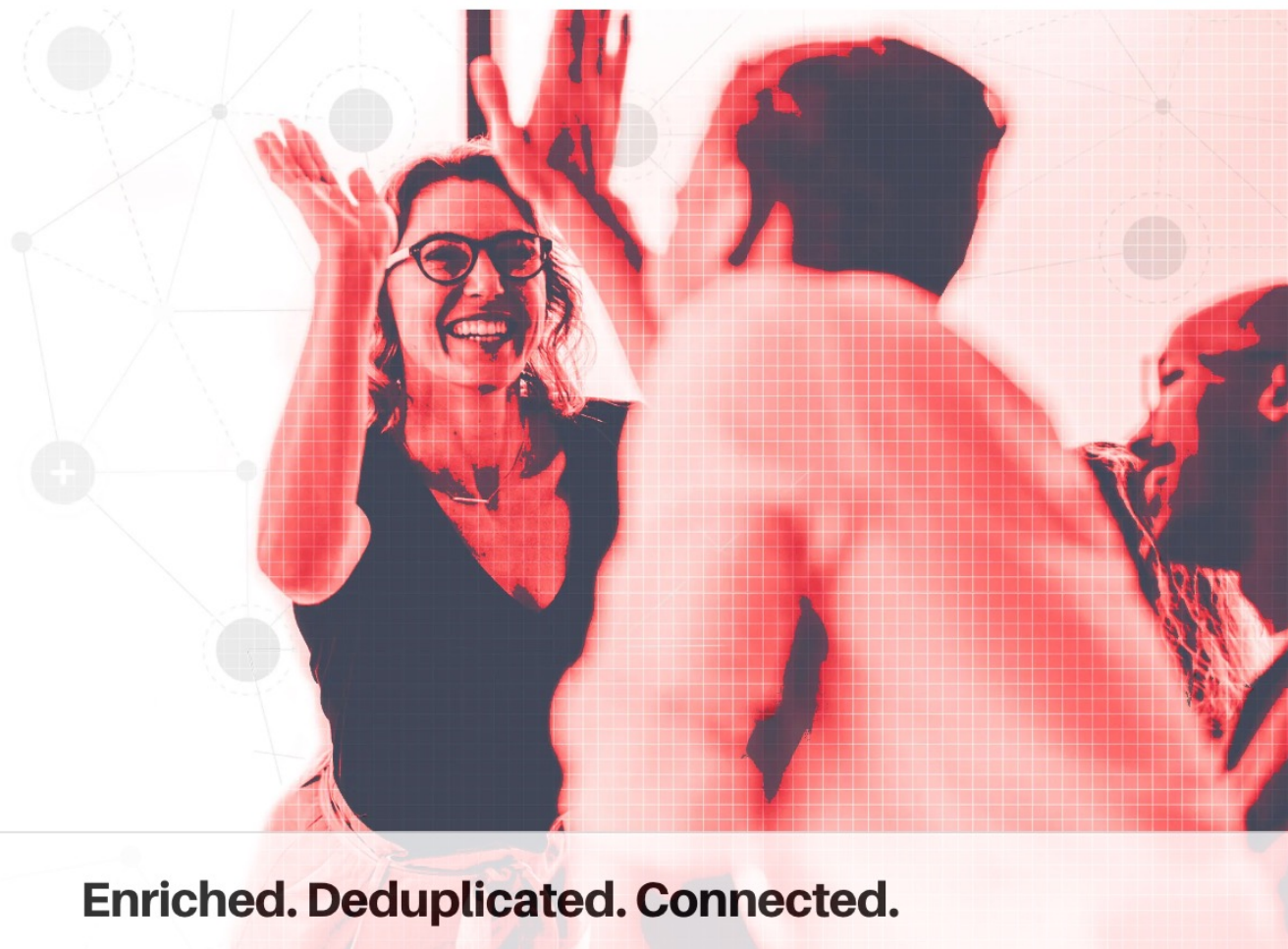
A Global Scholarly Knowledge Graph

Open. Transparent. Interconnected.

[Learn more](#)

282.4 M research products

Enriched. Deduplicated. Connected.





OLLSCOIL NA GAILLIMHÉ
UNIVERSITY OF GALWAY



[News and
Updates](#)

[Vision and
Purpose](#)

[Inventory](#)


[Team](#)

[Project plan](#)

[Open
Repositories
Ireland](#)


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



NATIONAL OPEN RESEARCH FORUM




Rialtas na hÉireann
 Government of Ireland




HIGHER EDUCATION AUTHORITY
 AN tAÚDARAS um AIRE-DOICÉADHAS

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




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



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.



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



National Diamond Publishing Platform Feasibility Study & Pilot

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

Timeframe: 1 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.

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...

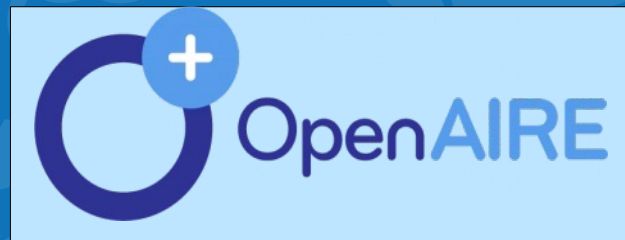
- **Invest/reinforce their infrastructures and services (like IRs and publishing platforms)**
Cooperate with other RPOs and funders
- **Sustain “horizontal” services (registries, PIDs, etc.)**
- **Establish shared infrastructures and services (national Portals or networks, etc.).**
- **Invest in/reinforce the staff involved in managing these repositories**



Trinity College Dublin

Coláiste na Tríonóide, Baile Átha Cliath

The University of Dublin



Go raibh míle maith agaibh!
Thank you!

Niamh Brennan
nbrennan@@tcd.ie
@niamhmbrennan

