

# Open Research: what, why, how?

**Leap into Research 2017**

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# What is “open” research

- Open research is concerned with making scientific research more transparent, more collaborative and more efficient.
- A central aspect to it is to provide [open access](#) to scientific information, especially to the research published in [scholarly journals](#) and to the underlying [data](#), much of which traditional science tends to hide away.
- Other aspects are more open forms of collaboration and engagement with a wider audience, including [citizen scientists](#) and the public at large



# Why “Open” Research

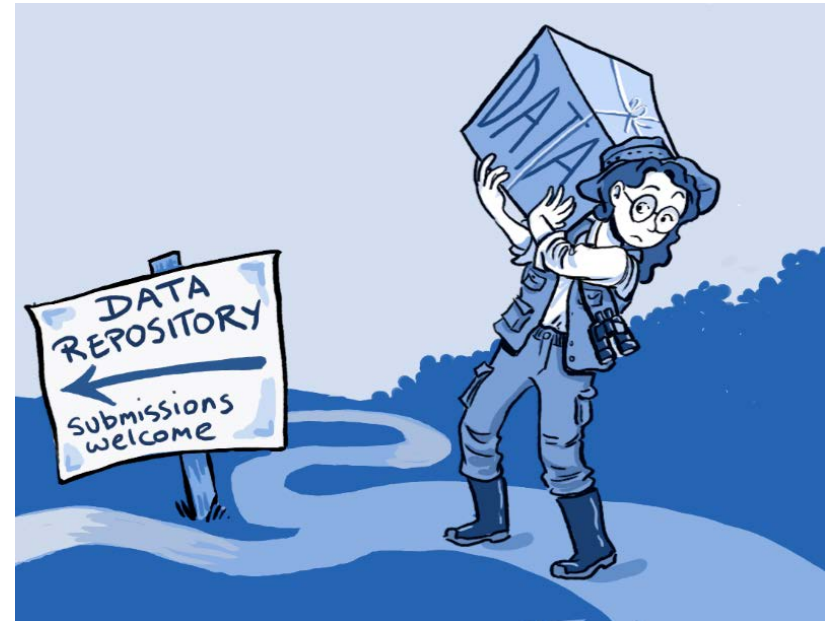
- **Funders** - want value for money – often this is derived from public or government funds – showcase the research they fund
- **Research Community**
  - Transparency in experimental methodology, observation, and collection of data.
  - Public availability and reusability of scientific data.
  - Public accessibility and transparency of scientific communication.
  - Using web-based tools to facilitate scientific collaboration
- **You and the University**
  - Increased visibility of the research we do
  - Reporting and Metrics

# Benefits



# Concerns about Open research?

- Potential misuse
- Too much unsorted information overwhelms scientists
- Increasing the scale of science will make verification of any discovery more difficult
- The public will misunderstand science data

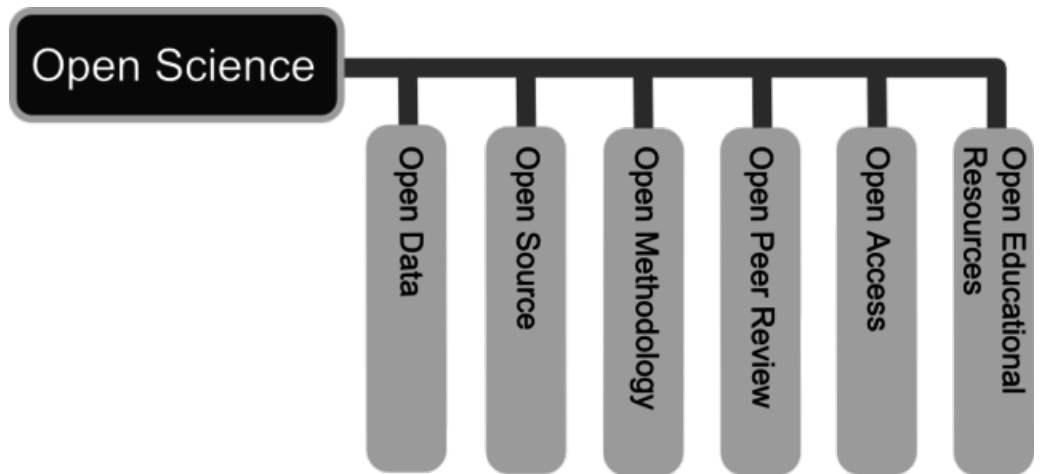


By Roche DG, Lanfear R, Binning SA, Haff TM, Schwanz LE, et al. (2014) - Roche DG, Lanfear R, Binning SA, Haff TM, Schwanz LE, et al. (2014) Troubleshooting Public Data Archiving: Suggestions to Increase Participation. PLoS Biol 12(1): e1001779. doi:10.1371/journal.pbio.1001779, CC BY 4.0, <https://commons.wikimedia.org/w/index.php?curid=30978545>



# How can you make your research open?

- Open access publication
- Open access data
- Project webpages
- Social media & blogs
- ORCID





# Open Research at Edinburgh Napier

- Open Access policy
- Research Data Management policy
- Repository within Worktribe for research outputs- Publications, activity, data
- Web profiles for Researchers – via Worktribe
- ORCID – you can sign up to get your unique research ID and link activity

# Worktribe

- Access
  - Currently – Academic Staff only
  - Future – Academic and post-graduate research students
- Profiles
  - Academic and post-graduate research students
  - Student project description can be added to profile by emailing to [RMSAdmin@napier.ac.uk](mailto:RMSAdmin@napier.ac.uk)
- Outputs eg publications
  - Currently all can be added, but student outputs will need to be added via [repository@napier.ac.uk](mailto:repository@napier.ac.uk) or a staff Co-author

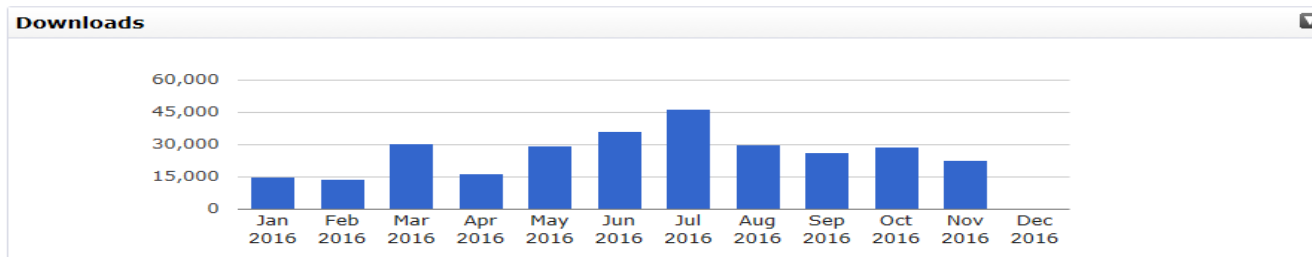


# What is the “repository”?

- Its software used to record, store and disseminate research outcomes.
- At Edinburgh Napier University the repository is one element of the Worktribe research management system.
- It links outcomes to staff profiles, research projects, and funders
- And it is an Open Access showcase of the institutional research in one place

# Why should you add your research to the repository?

- Compliance with both institutional and REF policy for Open Access
- Enhances discoverability of your research
- Facilitates collaboration across subjects and institutions



## Activity Overview



**890** Items



**296,748** Downloads



**44%** Full text



**28%** Open access



# What is Open Access?

- Open Access means that the outcomes of publicly funded research are freely available to read by anyone with an internet connection anywhere in the world.
- Hefce policy (and some funders) insist that journal articles and conference papers published with an ISSN should be made open access on publication to be submitted to the next REF.
- There are two routes to achieving compliance known as Gold and Green routes to publishing.
- **Green route is Edinburgh Napier's preferred route.**

# Gold Route

- The Gold route – the author pays an article processing charge to publish in the journal of choice. The journal article is publicly available to read on the publisher website as soon as it is published.
- Some publishers offer Offsetting deals where a discount is offered on the APC for institutions:
- BUT
  - This is dependent on the institutional subscriptions.
  - There is a lack of consistency in the offers available and can be difficult to manage.



## Green route

- You can publish in any journal of your choice without paying an APC.
  - The Open Access element is achieved by depositing a copy of the author accepted manuscript in a repository. This version is the version which has been accepted and peer-reviewed but has not been subjected to publisher copy-edited and formatting.
- The article is published usually behind a paywall.
- The publisher may impose an embargo period before the item can be made publicly available through the repository.
- REF policy allows an embargo period of:
  - 12 months for STEM subjects
  - maximum of 24 months for HSS subjects.
- Use Sherpa Romeo to find out publisher copyright policy

# Open Access journals

- Also possible to publish in a fully open access journal
- Directory of Open Access Journals lists journals which are fully open access immediately - <https://doaj.org/>





# What can be added to the repository?

- Journal Articles – the author accepted manuscript not the published pdf
- Conference papers- published and unpublished
- Reports & Working papers
- Theses – final submitted version
- Exhibition catalogues
- & anything else that constitutes the outcome of research

## How to add?

- Edinburgh Napier Staff can add outcomes through the RMS using the DOI. This will automatically fill certain information fields.
- If the ORCID ID has been added to the publication it will automatically pull through to the RMS.
- Post-graduate researchers currently will have to send their publications to the [repository@napier.ac.uk](mailto:repository@napier.ac.uk) mailbox – the repository team will add them for you
- Make sure you send a copy of the letter of acceptance to the [repository@napier.ac.uk](mailto:repository@napier.ac.uk) mailbox

# Open Data

## What is data?

“A reinterpretable representation of information in a formalized manner suitable for communication, interpretation, or processing.”

Digital Curation Centre



# RDM– making data open

- You should not make all your data Open. There are ethical, integrity and data protection issues you must consider.
- You should adhere to Funder and University guidance:
- Always check Funder rules, terms and conditions
- <http://staff.napier.ac.uk/services/research-innovation-office/research-data/Pages/introduction.aspx>
- <http://staff.napier.ac.uk/services/research-innovation-office/Pages/Research-Integrity.aspx>

# RDM - Planning

- You should generate RDM plan for all your research
- This will consider
  - Types of data you generate
  - Volume of data
  - Ethics – can you share your data?
  - How & where will you store data? – during and after project
  - How will you ensure data is secure and backed up?
  - How long will you store data? Check funder and university policies
  - What data will require long term storage

# RDM guidance

- Training
  - MANTRA - online training
  - <https://www.coursera.org/learn/data-management>
  - Napier run workshops
- Assistance writing DMP
  - [RDM@napier.ac.uk](mailto:RDM@napier.ac.uk)
  - DMPonline tool



# Research data storage

- Project duration:  
University X: or V:drives
- Long term storage:  
Worktribe repository
  - ‘useful’ data as per funder rules – usually at least 10 years after end of project
  - Use clear metadata to make your data is searchable



*"Nice labeling Honey."*

## More Information:

RMS - <https://napier-research.worktribe.com>

RMS Training event dates - <http://staff.napier.ac.uk/services/research-innovation-office/rms/Pages/RMS-Training.aspx>

General Worktribe help – [RMSadmin@napier.ac.uk](mailto:RMSadmin@napier.ac.uk)

Repository contact – [repository@napier.ac.uk](mailto:repository@napier.ac.uk)

Open access blog - <http://blogs.napier.ac.uk/open-access/>

Data Management - <http://staff.napier.ac.uk/services/research-innovation-office/research-data/Pages/introduction.aspx>