Практики управління науковими даними: Європейський досвід

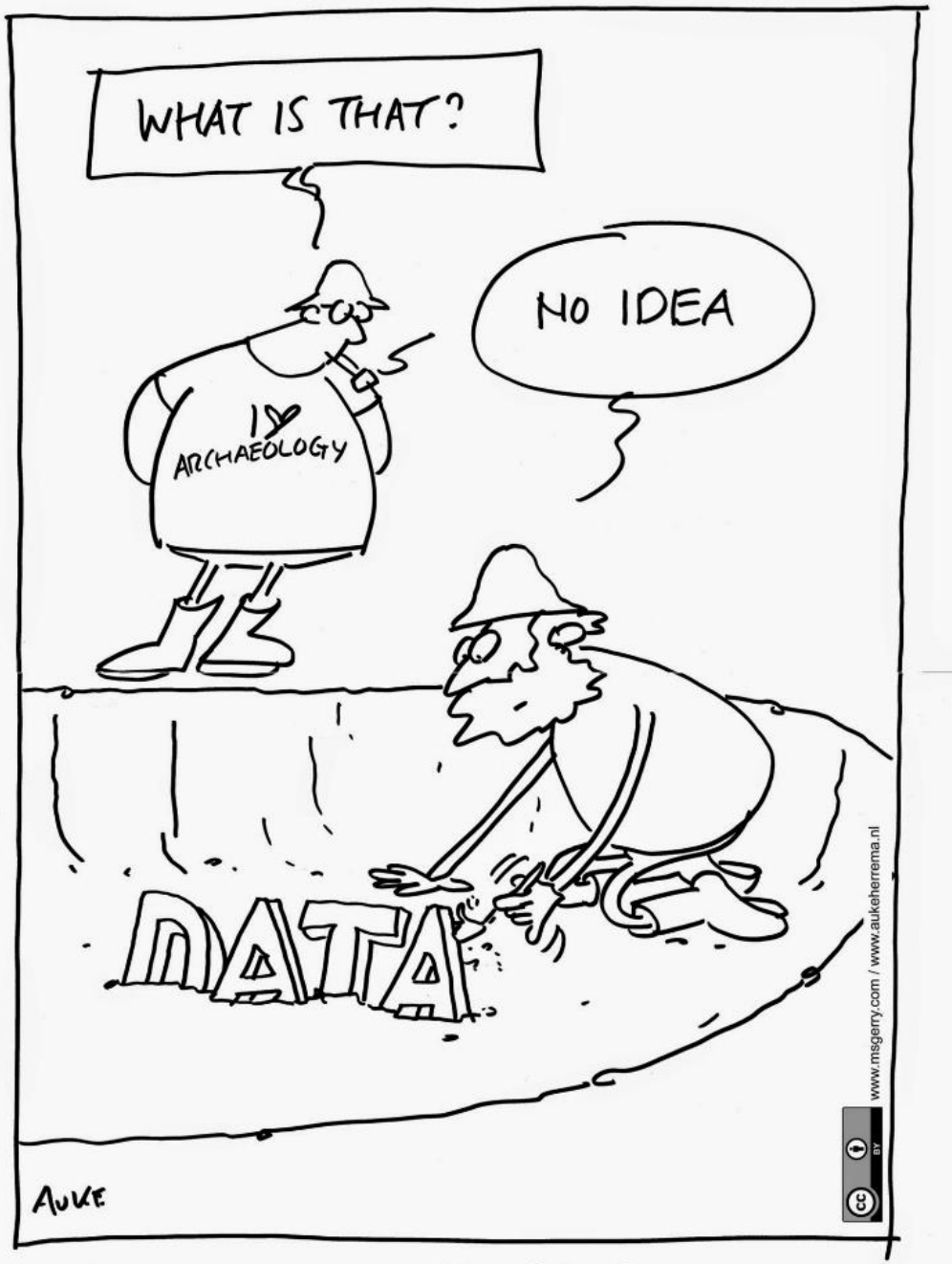
Ірина Кучма, менеджерка програми “ Відкритий доступ”

Семінар “Цифрова підтримка наукових досліджень”

9 жовтня 2017 р., м. Київ

Із Зазначенням Авторства 4.0 Міжнародна

eifl KNOWLEDGE WITHOUT BOUNDARIES



DATA FOR FUTURE GENERATIONS

Image courtesy of http://aukeherrema.nl CC-BY

Innovations in scholarly communication

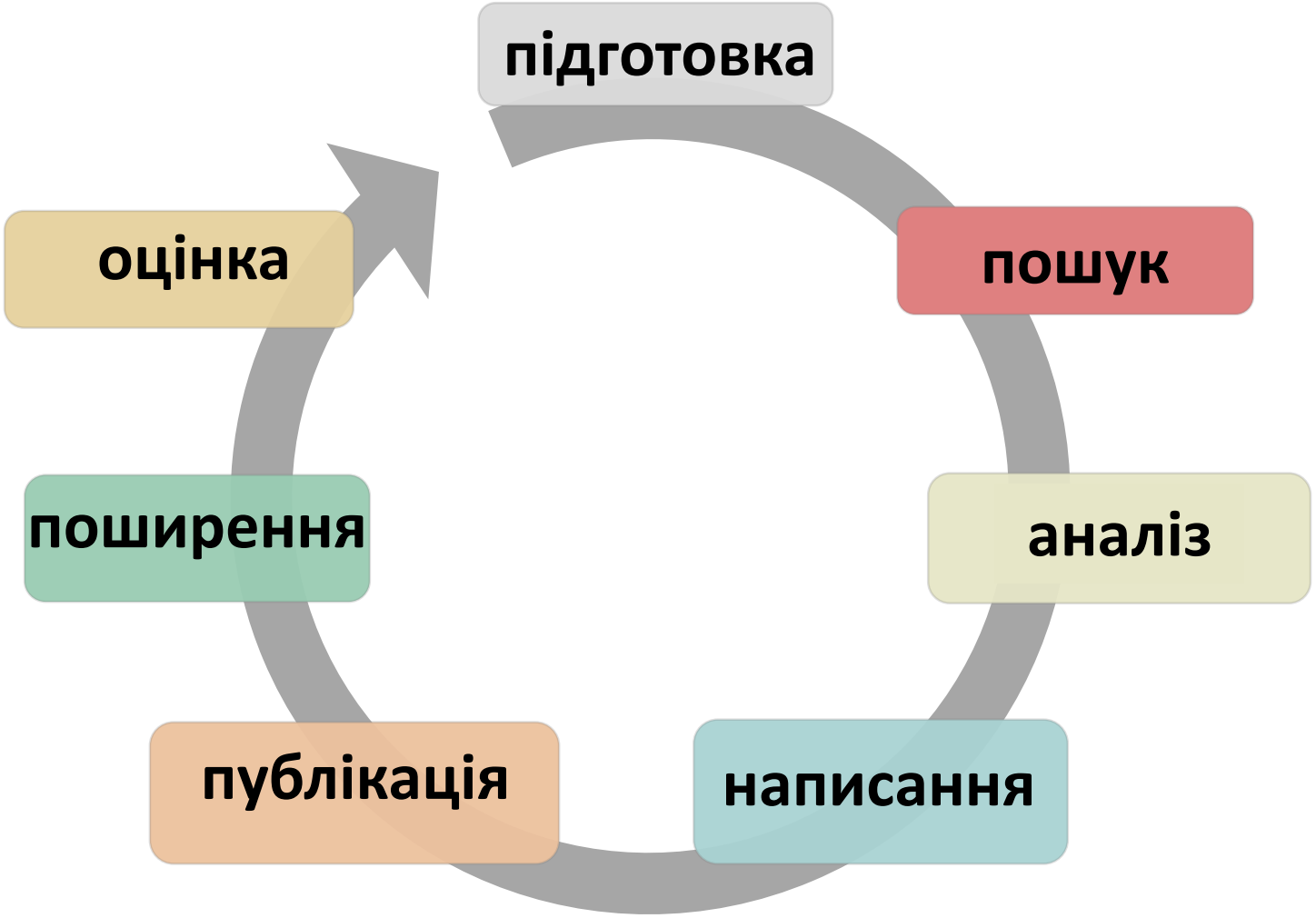
https://101innovations.wordpress.com/

Bianca Kramer & Jeroen Bosman

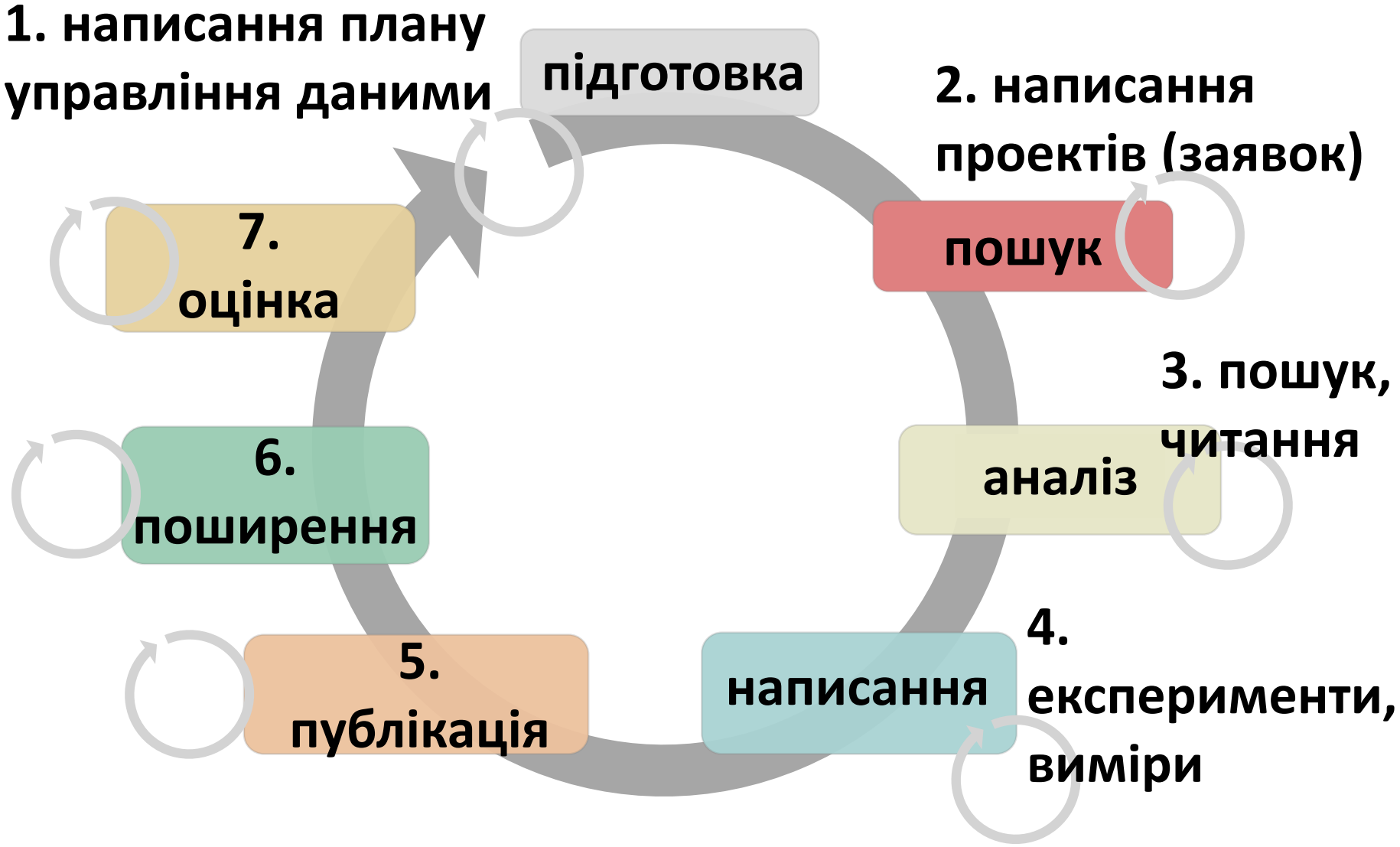
(except logos)

@MsPhelps
@jeroenbosman

Модель етапів дослідження



Модель етапів дослідження (2)



Відкриті дані

"[відкриті данні і контент]
будь-хто може **використовувати, змінювати і ділитися** з будь-якою метою"

http://opendefinition.org/od/2.0/ua

Тім Бернерс-Лі http://5stardata.info

★ веб-доступність під відкритою ліцензією

★★ структуровані дані (Excel, а не скан таблиці)

★★★ відкриті формати (CSV, а не Excel)

★★★★ використання уніфікованого ідентифікатора ресурсів

★★★★★ дані, пов'язані з іншими даними

FOSTER

Як відкрити дані?

https://okfn.org

1. Оберіть дані (набір даних)
   - Які дані ви можете відкрити?
2. Оберіть відкриту ліцензію
   - Визначтеся з правами інтелектуальної власності. Оберіть ліцензію, наприклад Із Зазначенням Авторства 4.0 Міжнародна
3. Надайте доступ до даних
   - Дані у придатних форматах доступні в репозитаріях.
4. Полегшіть їх пошук
   - Веб-доступність, реєстрація в каталогах

FOSTER

Innovations in Scholarly Communication survey - dashboard

Made with Silk

PAGES DATACARDS EXPLORE SHARE

10. Archive / share data & code

What tools/sites do you use to archive/share data & code?

Choose as many as you like

- A GitHub
- B Figshare
- C Zenodo
- D Dryad
- E Dataverse
- F Pangaea
- G BitBucket
- H (and also) others

Home | Open Science - Re...

ec.europa.eu/research/openscience/index.cfm?pg=home&section=monitor

Search

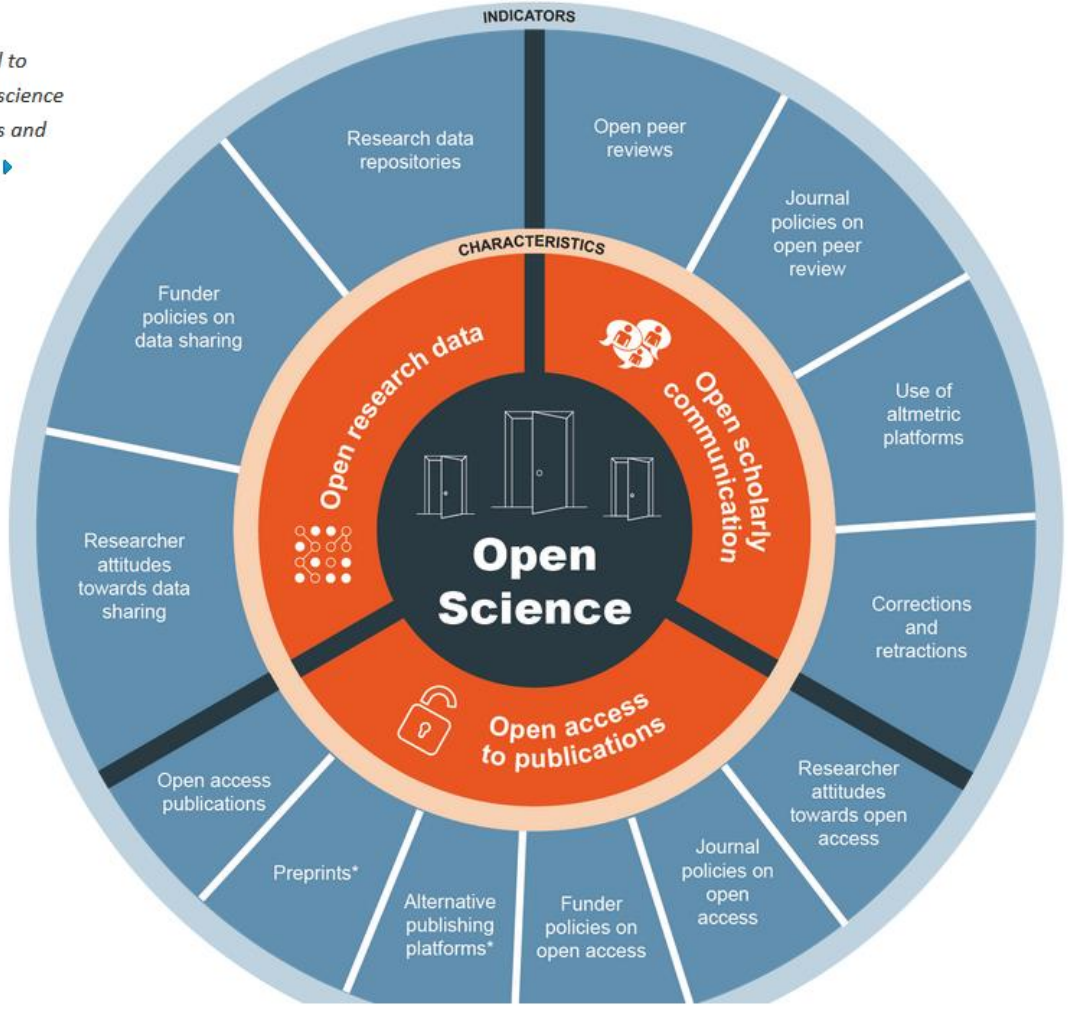
Open Science Monitor

Home | About | Open Access to Publications | Open Research Data | Open Scholarly Communication | Citizen Science | Drivers & Barriers

Open science represents an approach to research that is collaborative, transparent and accessible. Open science occurs across the research process and there are many different activities that can be considered part of this evolution in science. The open science monitor tracks trends in areas that have consistent and reliable data.

http://ec.europa.eu/research/openscience/index.cfm?pg=home&section=monitor

Use the wheel to explore open science characteristics and indicators.



YOUR FEEDBACK

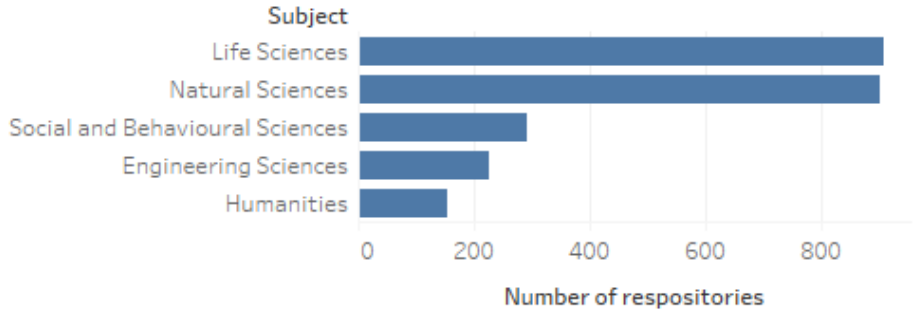
Number of data repositories

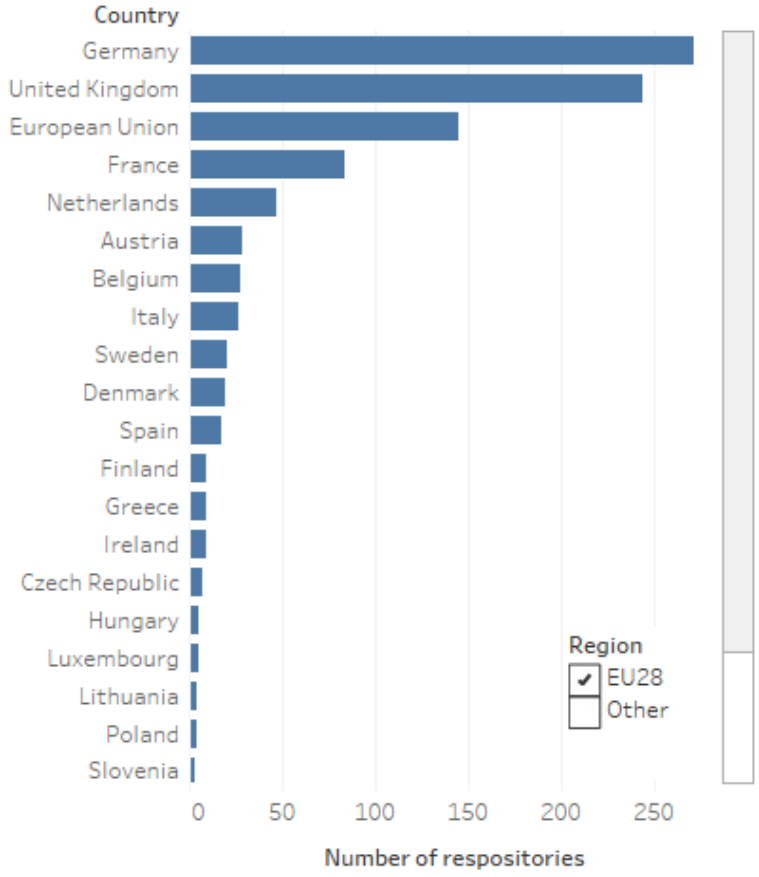
re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES

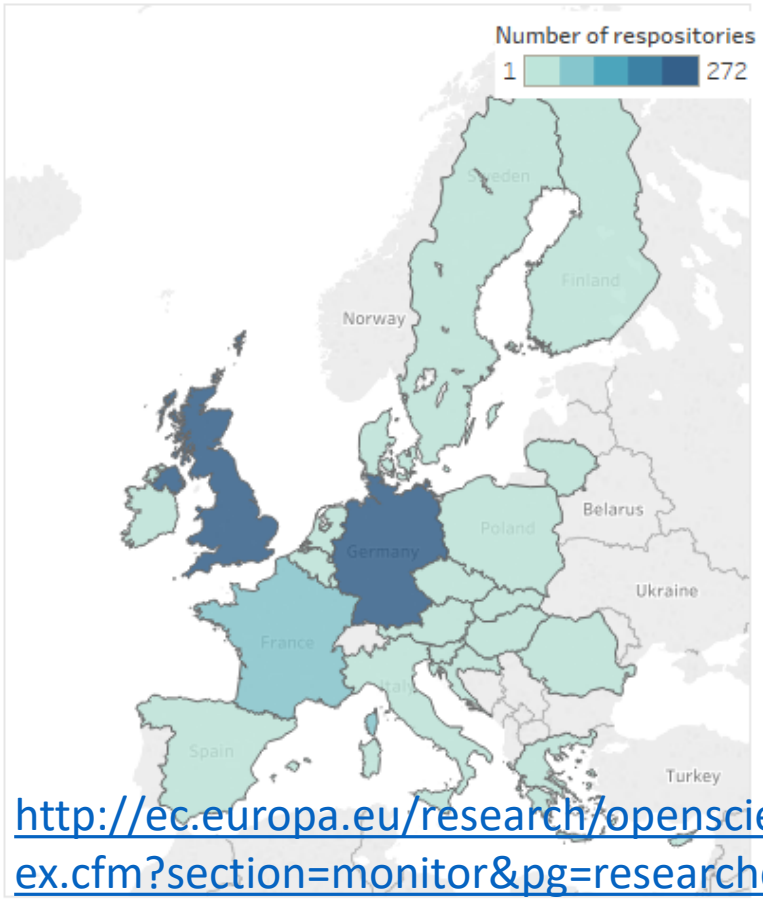
This visualisation shows the number of data repositories recorded in re3data.org. Repositories can cover multiple subjects, and be run from multiple countries.

Focus on one or more countries or subjects by selecting them on the barcharts. The CTRL key can be used to select multiple bars.

To reset, use the reset button in the bar below.



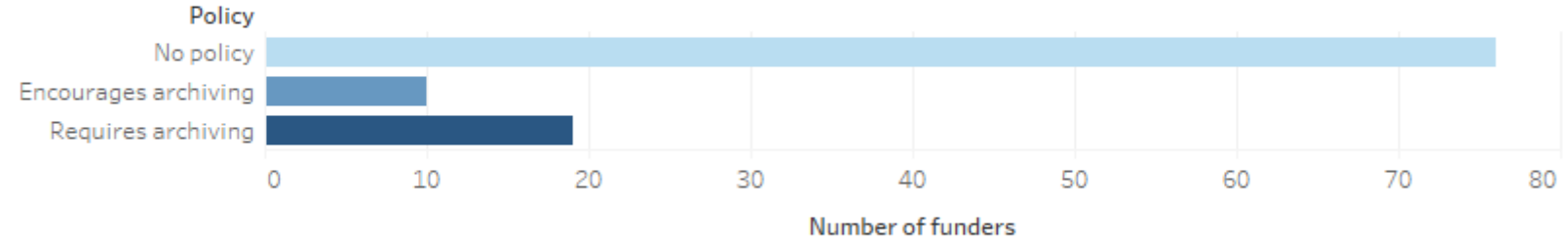


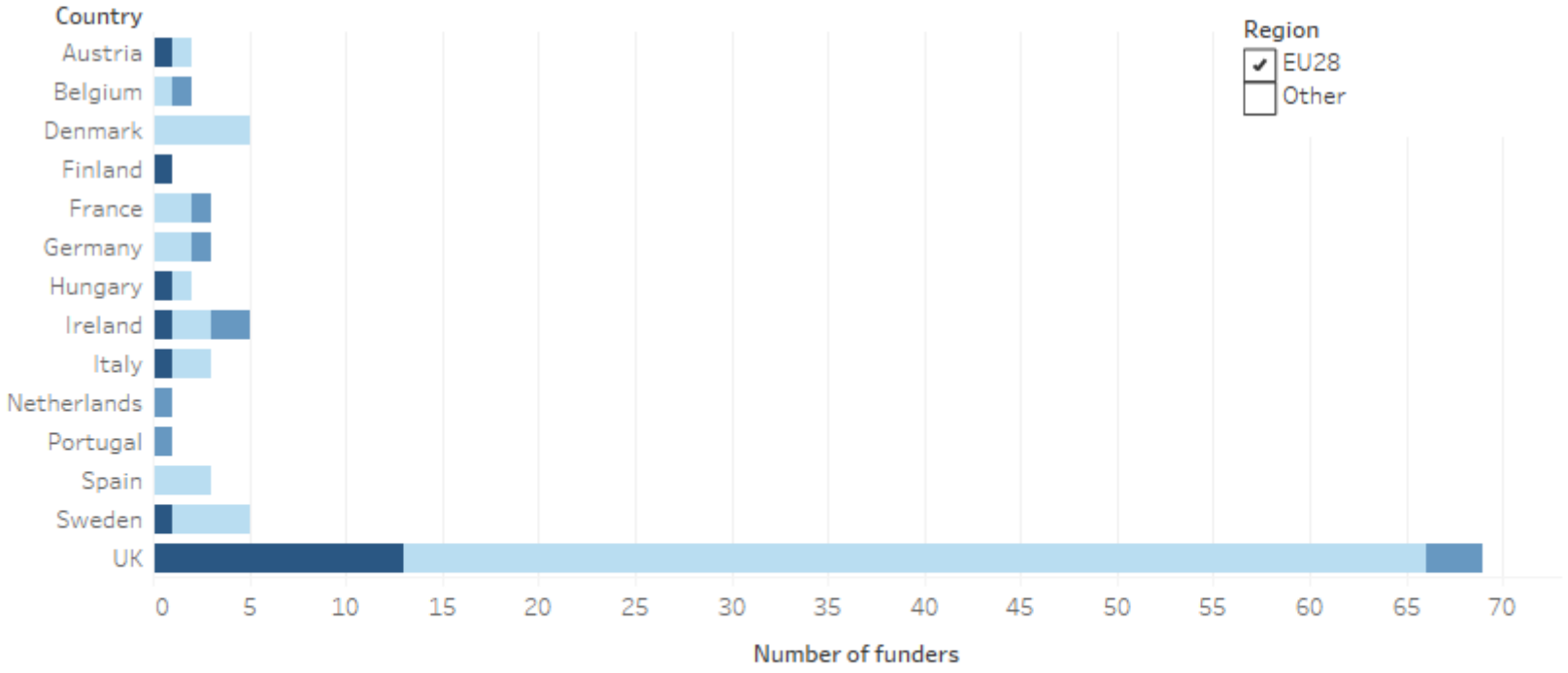


http://ec.europa.eu/research/openscience/index.cfm?section=monitor&pg=researchdata#1

Funder policies on data sharing

This visualisation shows data archiving policies for funders in SHERPA/Juliet.





This information is derived from the Juliet database compiled by SHERPA and has been modified for use here

http://ec.europa.eu/research/openscience/index.cfm?section=monitor&pg=researchdata#1

Open Research Data | Ope...
ec.europa.eu/research/openscience/index.cfm?section=monitor&pg=researchdata#3
Search

Aiming to provide a minimal but comprehensive framework for

Indicator Data

How does GenBank contribute to open science?

GenBank is a data-type specific open data repository that holds biological sequence data that is freely available for (re)use by the scientific community. Developed before the world wide web, it is one of the earliest open scientific databases, and the amount of data stored in it continues to grow.

How does GenBank work?

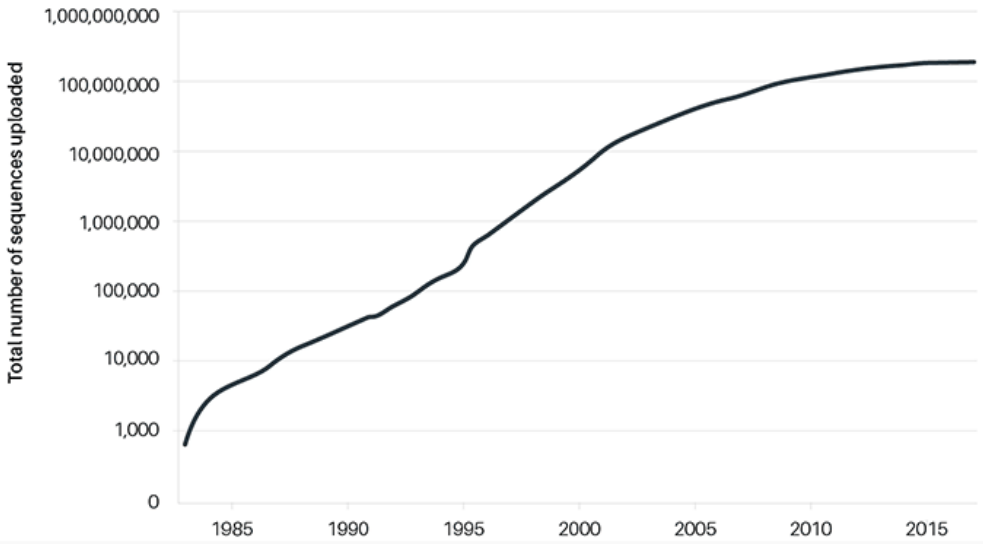
GenBank is one of three nodes of the INSDC; the other two nodes are the ENA, and the DDBJ. Scientists can submit sequence data to any of the three nodes, regardless of country of origin. Submissions come from both individual laboratories, and also large-scale sequencing centers. The nodes act as mirrors for the data, ensuring the data are stored in multiple places and are always available. Once the data are shared across nodes only the accession number reveals the original submission node. While the underlying data is the same at each node, the graphical representations, and possible analyses that can be done on the websites, vary across the nodes. GenBank processes 80-85% of the submissions amongst the three nodes.

What coverage does GenBank have?

DNA sequence data is uploaded to GenBank and used by scientists from all over the world.

Download the full case study

Total number of sequences uploaded to GenBank



Open Research Data | Ope...

ec.europa.eu/research/openscience/index.cfm?section=monitor&pg=researchdata#3

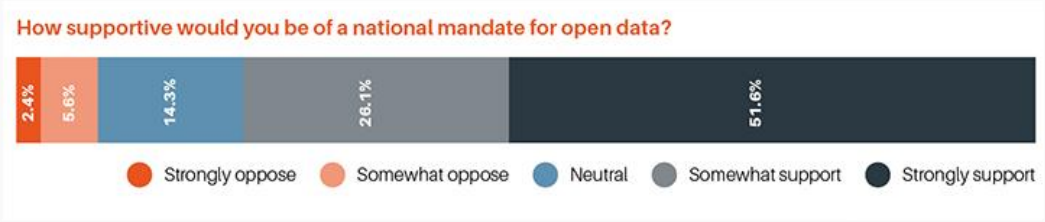
Search

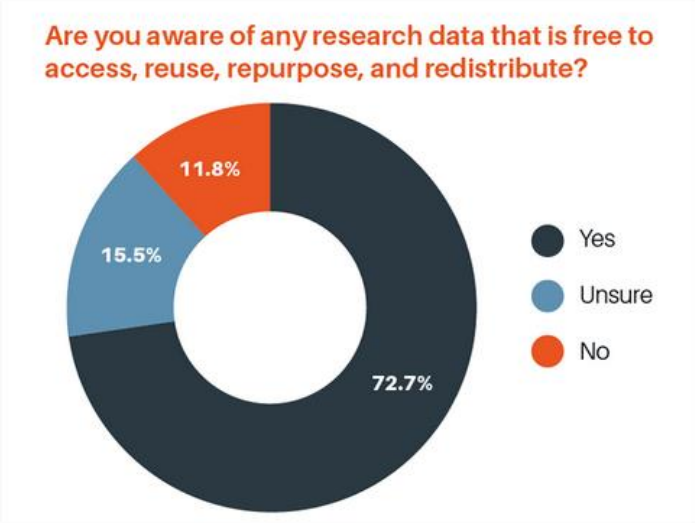
Explore the indicators related to open research data

Select an indicator to see its description, visualise the data, understand its limitations, and identify the data sources.

Aiming to provide a minimal but comprehensive framework for developing and implementing good

Indicator Data





Source: The State of Open Data, Digital Science Report (2016).
Retrieved: December 23, 2016 . Figures have been redrawn from the originals.

The State of Open Data survey was run by figshare, Springer Nature and Digital Science in 2016. The aim of the survey was to understand researcher's attitudes and experiences in working with data, sharing it and making it open; 2,000 researchers responded from a variety of countries and disciplines.

http://ec.europa.eu/research/openscience/index.cfm?section=monitor&pg=researchdata#1

Home

Last update: 28/03/2017 | Top

Open Research Data | Open Science - Research & Innovation - European Commission - Mozilla Firefox

ec.europa.eu/research/openscience/index.cfm?section=monitor&pg=researchdata#1

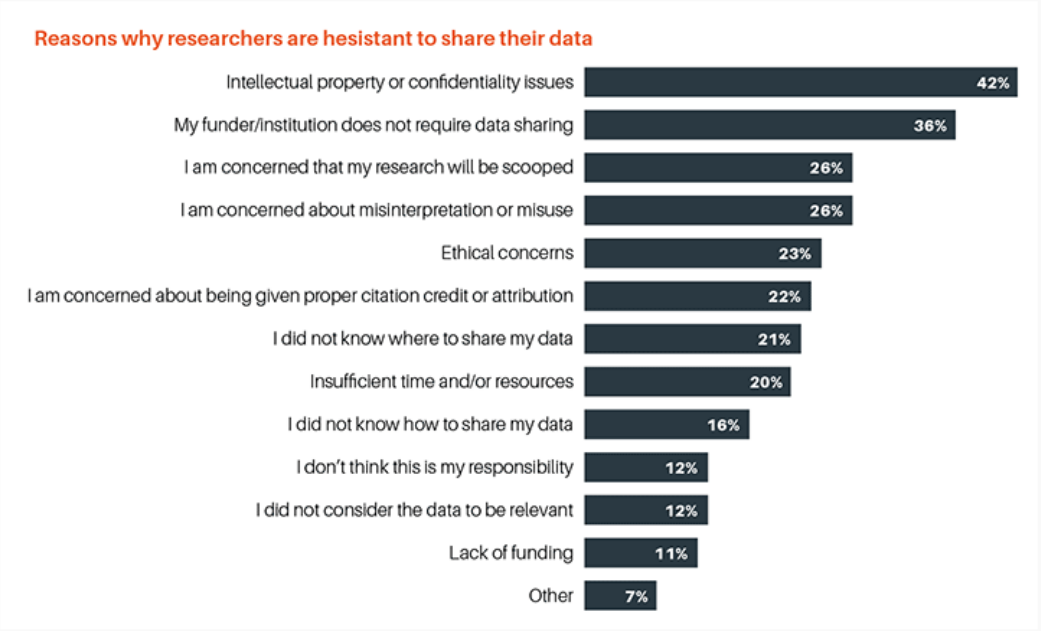
Search

Explore the indicators related to open research data

Select an indicator to see its description, visualise the data, understand its limitations

Aiming to provide a minimal but comprehensive framework for

Indicator Data



Source: Wiley's Research Data Insights Survey (2014).

Retrieved: December 23, 2016 . Figures have been redrawn from the originals.

http://ec.europa.eu/research/openscience/index.cfm?section=monitor&pg=researchdata#1

CESSDA Services
Projects
Resources
Media
News
Research Infrastructures News
Blog Articles
Publications
Social Media
Documents
Videos
Corporate Identity
Photos
CESSDA Training
National Data Services

Key findings from new FORS report on data sharing and re-use

Between November 2016 and February 2017, FORS, the Swiss Centre of Expertise in the Social Sciences, conducted an online survey of social science researchers in Switzerland to better understand researchers' attitudes, practices, and needs specifically regarding data sharing and re-use.

Here are some key findings:

- Across disciplines, around 80 percent of researchers generally consider the sharing of research data to be very important.
- More than two-thirds of the researchers stated that they had already shared data.
- Data sharing is most common amongst colleagues inside the same institution and within researchers' broader networks.
- Conditions most cited for sharing data include being informed about the projects that other researchers carry out based on one's data and the desire to be cited for the use of one's data by others.
- Re-using quantitative data is much more common than re-using qualitative data.
- There is a large interest in and strong need for additional services and materials in the area of data management, especially for data management planning, data preparation and cleaning, and security, storage and backup.

Click here to consult the report "Data sharing and re-use: Researcher practices, attitudes and needs - FORS survey of social science researchers in Switzerland".

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Latest news | Next events

IDCC18 - Call for Papers
4 October, 2017 | in DCC News

IDCC18 - Save the date
25 July, 2017 | in DCC News

DCC Glasgow on the move
1 September, 2017 | in DCC News

How can the DCC help you?

About us
We are a world-leading centre of expertise in digital information curation...

What is digital curation?
Digital curation involves maintaining, preserving and adding value to digital research data throughout its lifecycle...

Working with HEIs
Under the institutional engagement programme we have been working with HEIs to provide tailored support...

Editor's choice

Research Data Management Forum
20-21 November, Chancellors Hotel, Manchester

DMPonline & DMPTool roadmap
Sarah Jones on the recent reciprocal visits between our teams...

Research Infrastructure Self-Evaluation (RISE)
Our framework for assessing institutional RDM support services

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DMPRoadmap summer camp news

Incentivising open practices

All RISE for Sussex

On the right track(s) - DCC release draws nigh

All blog posts >

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Tag cloud

curation research data RDM DMPonline data

http://www.dcc.ac.uk

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Home > Resources

In this section

- Briefing Papers
- How-to Guides & Checklists
- Developing RDM Services
- Curation Lifecycle Model
- Curation Reference Manual
- Policy and legal
- Data Management Plans
- Tools
- Case studies
- Repository audit and assessment
- Standards
- Publications and presentations
- Roles
- Curation journals
- Informatics research
- External resources
- Online Store

Resources for digital curators

With just a few clicks, you can access any of the data curation resources collected by the DCC since we opened our doors in 2004.

Our comprehensive and easily accessible digital library is completely free to use and aims to provide you with everything you need to evaluate and implement those digital curation techniques most suited to your particular research project.

What's more, we regularly review and update our library, adding the latest resources developed for data curators.

Select from the links below and left to access high-level digital curation briefing papers; legal watch, standards watch and technology watch papers; case studies and interviews; and instalments from our detailed Curation Reference Manual.

International Journal of Digital Curation

Our highly regarded digital journal, published twice a year, features general articles and peer reviewed papers and serves as an invaluable channel for the

IDCC

The 12th International Digital Curation Conference (IDCC) will take place at The Royal College of Surgeons of Edinburgh, UK

20 - 23 February 2017.

Read more

http://www.dcc.ac.uk/resources

http://www.dcc.ac.uk/training/training-and-reference-materials

In this section

Forthcoming training events
Request a training session
Previous training events
Training and reference materials
- Career profiles and related data management skills
- DC 101 training materials
- Disciplinary RDM training
- RDM for librarians
- Skills frameworks
- Data management courses and training

Training and reference materials

In an effort to build capacity and to improve the sustainability of current and emerging curation training materials, the DCC seeks to identify and promote training materials available to those charged with developing and/or delivering RDM training within their institutions. The DCC is keen to cooperate with other training providers to share knowledge and resources and to reduce duplication of effort across the sector.

Our generic DC 101 training materials are available to reuse as the basis for disciplinary or institutional-specific training. We have also developed RDM training aimed specifically at librarians and research administrators.

Many others have also produced training materials that are free for use and may be repurposed:

- Facilitate Open Science Training for European Research (FOSTER) training portal is an e-learning platform that brings together the best training resources for those who need to know more about Open Science, or who need to develop strategies and skills for implementing Open Science practices in their daily workflows. Here you will find a growing collection of training materials to meet the needs of many different users, from early-career researchers, to data managers, librarians, funders, and graduate schools.
- VADS4R developed a selection of learning materials, examples and quizzes reating to RDM and curation aimed at postgraduate students and early careers researchers in the visual arts. Some nice advice and examples of Technical Plans for those applying for AHRC funding.
- Network of Data and Information Curation Communities (NeDICC) Introduction to the basics of research data is an animated video that explains the basics of research data. This video is recommended background material for students planning to attend a workshop on research data management. Feedback from previous workshops have

Overview of funders' data policies | Digital Curation Centre - Mozilla Firefox
www.dcc.ac.uk/resources/policy-and-legal/overview-funders-data-policies 150% Search

● Full Coverage ◐ Partial Coverage ○ No Coverage

	Policy Coverage		Policy Stipulations					Support Provided			
Research Funders	Published outputs	Data	Time limits	Data plan	Sharing/ access	Long-term curation	Monitoring	Guidance	Repository	Data centre	Costs
AHRC	●	●	●	●	●	◐	○	●	○	◐	◐
BBSRC	●	●	●	●	●	●	●	●	●	◐	●
EPSRC	●	●	●	◐	●	●	●	◐	○	○	●
ESRC	●	●	●	●	●	●	●	●	●	●	◐
MRC	●	●	●	●	●	●	○	◐	●	○	◐
NERC	●	●	●	●	●	●	●	●	●	●	◐
STFC	●	●	●	●	●	●	●	◐	●	◐	◐
Cancer Research	●	●	●	●	●	●	●	◐	●	○	●
European Commission	●	●	◐	●	◐	◐	◐	●	●	◐	●
Wellcome Trust	●	●	●	●	●	●	●	●	●	●	●

http://www.dcc.ac.uk/resources/policy-and-legal/overview-funders-data-policies

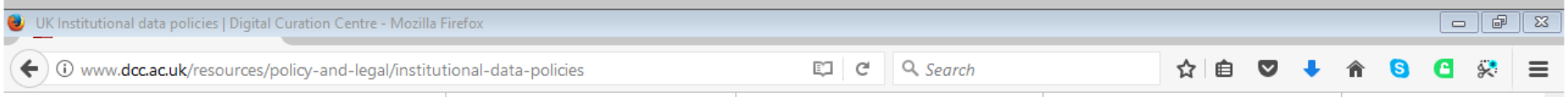
Terminology Clarifications

Five Steps to Developing a Research Data Policy
Overview of funders' data policies
Funders' data policies
Institutional data policies
Policy tools and guidance
RDM guidance webpages
Roadmaps to EPSRC Expectations
Freedom of information FAQ
MRC data plan FAQ
Open source FAQ
Data Management Plans
Tools
Case studies
Repository audit and assessment
Standards
Publications and presentations
Roles
Curation journals
Informatics research
External resources
Online Store

Table 1. UK Institutional RDM policies in date order

Institution	Policy name	Date released / revised
University of Birmingham	Code of Practice for Research (see Research Data section)	October 2009
University of Edinburgh	Research Data Management Policy	May 2011
University of Northampton	Research Data Policy	June 2011
University of Hertfordshire	Data Management Policy (see s.7 on research data and the appendix 'Guide to RDM')	September 2011
University of Warwick	Research Data Management Policy	November 2011
Glyndwr University	Policy on the Management of and Access to Research Data	December 2011
University of Southampton	Research Data Management Policy	February 2012
University of East London	Research Data Management Policy for UEL	March 2012
Brunel University	Research Data Management Vision	March 2012
University of Essex	Research Data Management Policy	April 2012
Queen Mary, University of London	Research Data Management Policy	June 2012
University of Sheffield	Research Data Management Policy	July 2012
University of Leeds	Research Data Management Policy	July 2012
University of Oxford	Policy on the Management of Research Data and Records	July 2012
University of the Arts London	Research Data Management policy	October 2012
University for the Creative Arts	Researc Data Management Policy	October 2012
Oxford Brooks University	Research Data Management Policy	February 2013
University of Durham	Research Data Management Policy	March 2013
Liverpool John Moores University	Research Data Policy	April 2013
Edge Hill University	Code of Practice for the Conduct of Research (see section 14 on Research Data Management)	May 2013
University of Exeter	Open Access Research and Research Data Management Policy	June 2013

http://www.dcc.ac.uk/resources/policy-and-legal/institutional-data-policies



http://www.dcc.ac.uk/resources/policy-and-legal/institutional-data-policies

King's College London	Policy on Research Data Management	June 2013
Royal Veterinary College	Research Data Management Policy	July 2013
University of Strathclyde	Research Data Policy (Research Data Deposit Policy)	November 2013 (November 2014)
University of Manchester	Research Data Management Policy	December 2013
University of Liverpool	Research Data Management Policy	January 2014
University of Stirling	Research Data Management Policy	January 2014
University of Bath	Research Data Management Policy	April 2014
London School of Hygiene & Tropical Medicine	Research Data Management Policy	June 2014
Royal Holloway, University of London	Research Data Management Policy	June 2014
Nottingham Trent University	Research Data Management Policy	June 2014
University of St Andrews	Research Data Management Policy	June 2014
University of Surrey	Research Data Management Policy	June 2014
University of York	Research Data Management Policy	June 2014
University College London (UCL)	Research Data Policy	August 2014
University of Aberdeen Research Data Management Policy	Research Data Management Policy	September 2014
St George's University of London	Research Data Management Policy	October 2014
University of Sussex Research	Data Management Policy	October 2014
Sheffield Hallam University	Research Data Management Policy	October 2014
University of Plymouth	Research Data Management Policy	November 2014
Cardiff Metropolitan University	Policy on the Storage of Research Data	December 2014
University of Lancaster	Research Data Management policy	February 2015
Manchester Metropolitan University	Research Data Management policy	February 2015
University of Bolton	Research Data Management policy	March 2015
Cranfield University	Management of Research Data Policy	March 2015
University of Huddersfield	Research Data Management policy	March 2015
University of Reading	Research Data Management Policy	March 2015

University of Cambridge	Research Data Management Policy Framework	April 2015
Heriot-Watt University	Research Data Management Policy	April 2015
University of Portsmouth	Research Data Management Policy	April 2015
University of South Wales	Research Data Management Policy	April 2015
Edinburgh Napier University	Research Data Management Policy	April 2015
University of Northumbria	Research Data Management Policy	May 2015
University of Central Lancashire	Research Data Management Policy	June 2015
Middlesex University	Research Data Management Policy	June 2015
Swansea University	Policy for Research Data Management (RDM)	June 2015
University of Glasgow	Good Management of Research Data Policy	July 2015
University of East Anglia	Research Data Management Policy	July 2015
Bangor University	Research Data Management Policy	September 2015
University of Winchester	Research Data and Records Management Policy	September 2015
University of Bristol	Research Data Management and Open Data Policy	October 2015
University of Dundee	Policy to Govern the Management of Research Data	December 2015
Staffordshire University	Research Data Management Policy	2015 (no month)
University of Salford	Research Data Management Policy	January 2016
University of Wales Trinity Saint David	Research Data Management Policy	January 2016
Goldsmiths University of London	Goldsmiths Statement on Open Access	March 2016
De Montfort University	Good Practice in Research Data Management	March 2016
Imperial College London	Research Data Management Policy	March 2016
University of Lincoln	Research Data Management Policy	May 2016
Bucks New University	Research Data Management Policy	June 2016
University of Newcastle	Research Data Management Policy & Code of Good Practice	August 2016
The Open University	Research Data Management Policy	November 2016
Aston University	Research Data Management Policy	December 2016
Keele University	Data Management & Sharing Policy	Not dated

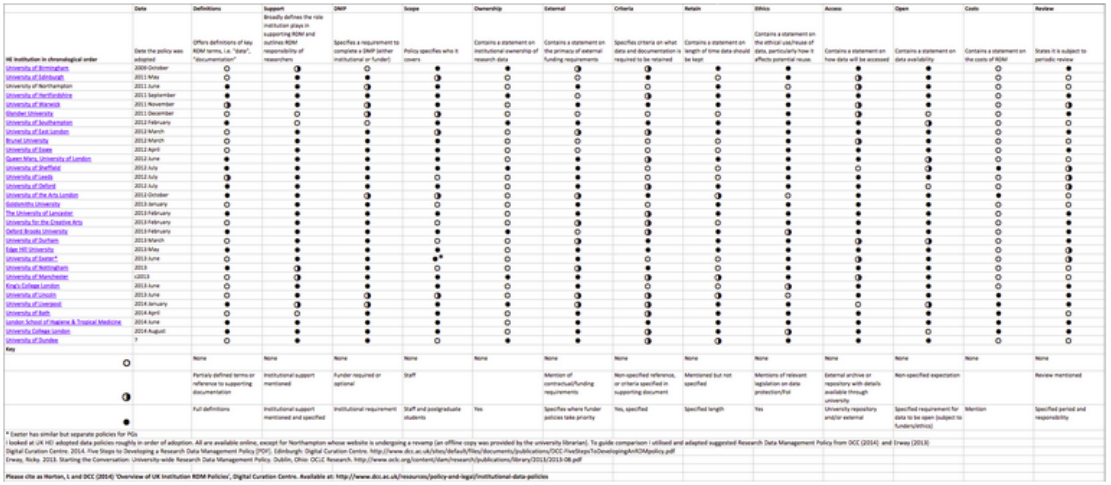
http://www.dcc.ac.uk/resources/policy-and-legal/institutional-data-policies

University of Nottingham	Research Data Management Policy	Not dated
Bath Spa University	Research Data Policy	Not dated
Falmouth University	Open Access Research & Research Data Management Policy	Not dated
Leeds Trinity University	Research Data Management Policy	Not dated
Loughborough University	Research Data Management Policy	Not dated
Teesside University	Research Data Management Policy	Not dated

In draft:

Glasgow School of Art - Draft Research Data Management Policy (PDF)

Table 2 Overview and analysis table courtesy of Laurence Horton. Download by clicking on the image below.

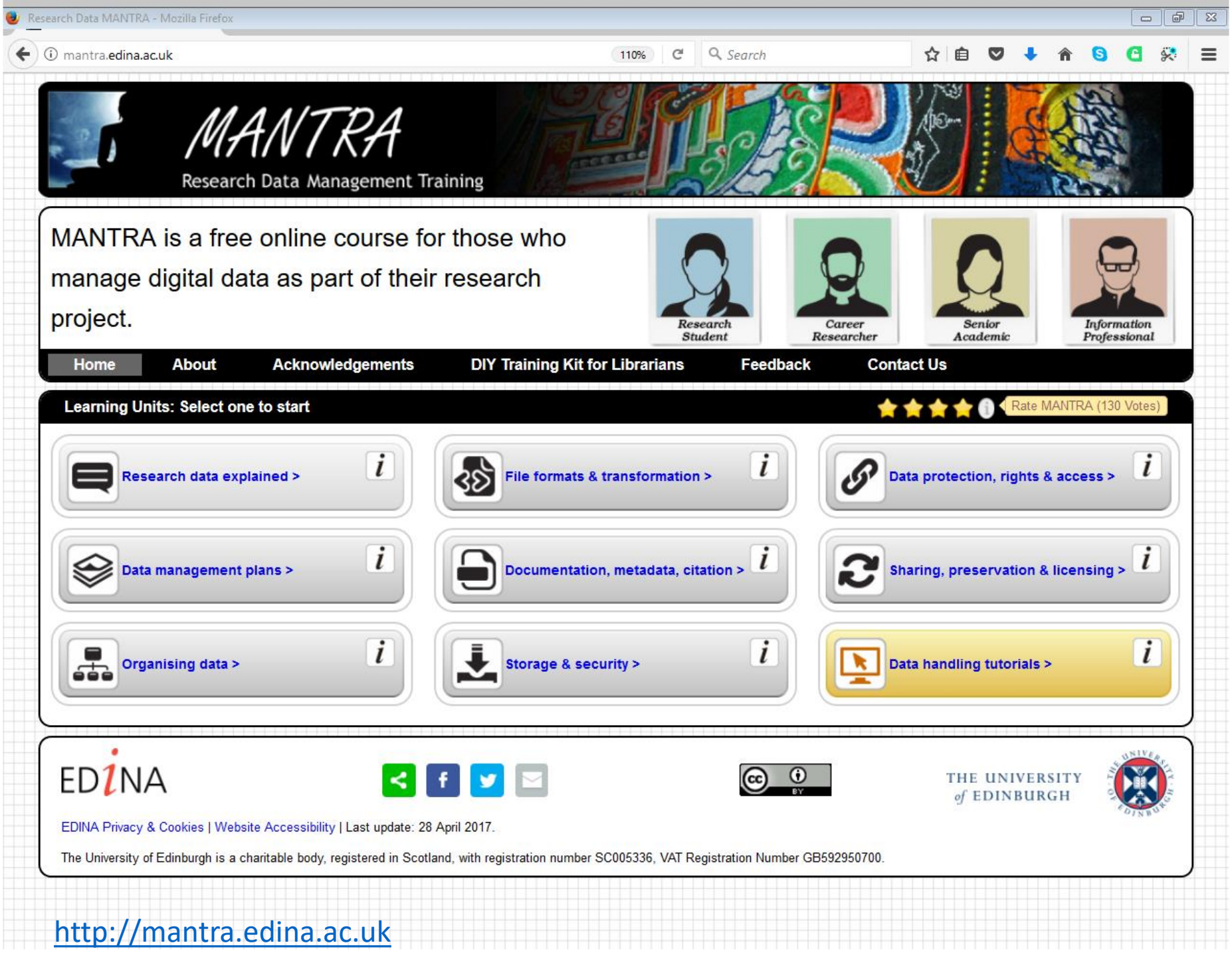


Please cite as Horton, L and DCC (2016) 'Overview of UK Institution RDM Policies', Version 6 August 2016, Digital Curation Centre. Available at: http://www.dcc.ac.uk/resources/policy-and-legal/institutional-data-policies

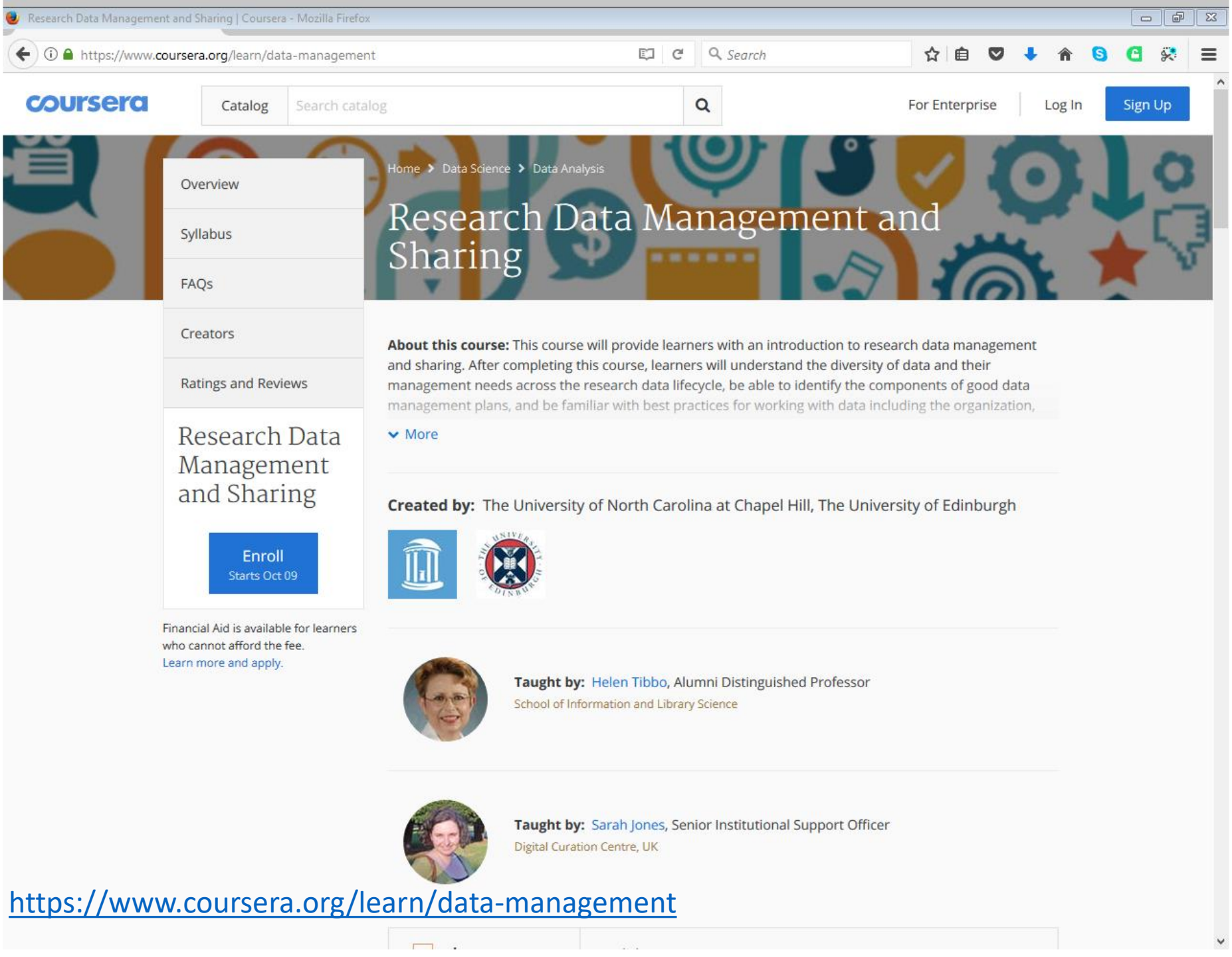
Get in touch if your institution has a data policy and we'll add the details. All you need to provide is the name of your institution and a URL for the policy.

If you're planning to write an institutional policy or strategy, we can help you develop it, cost it or implement it. Just get in touch via info@dcc.ac.uk

Research Data Management Policy



http://mantra.edina.ac.uk



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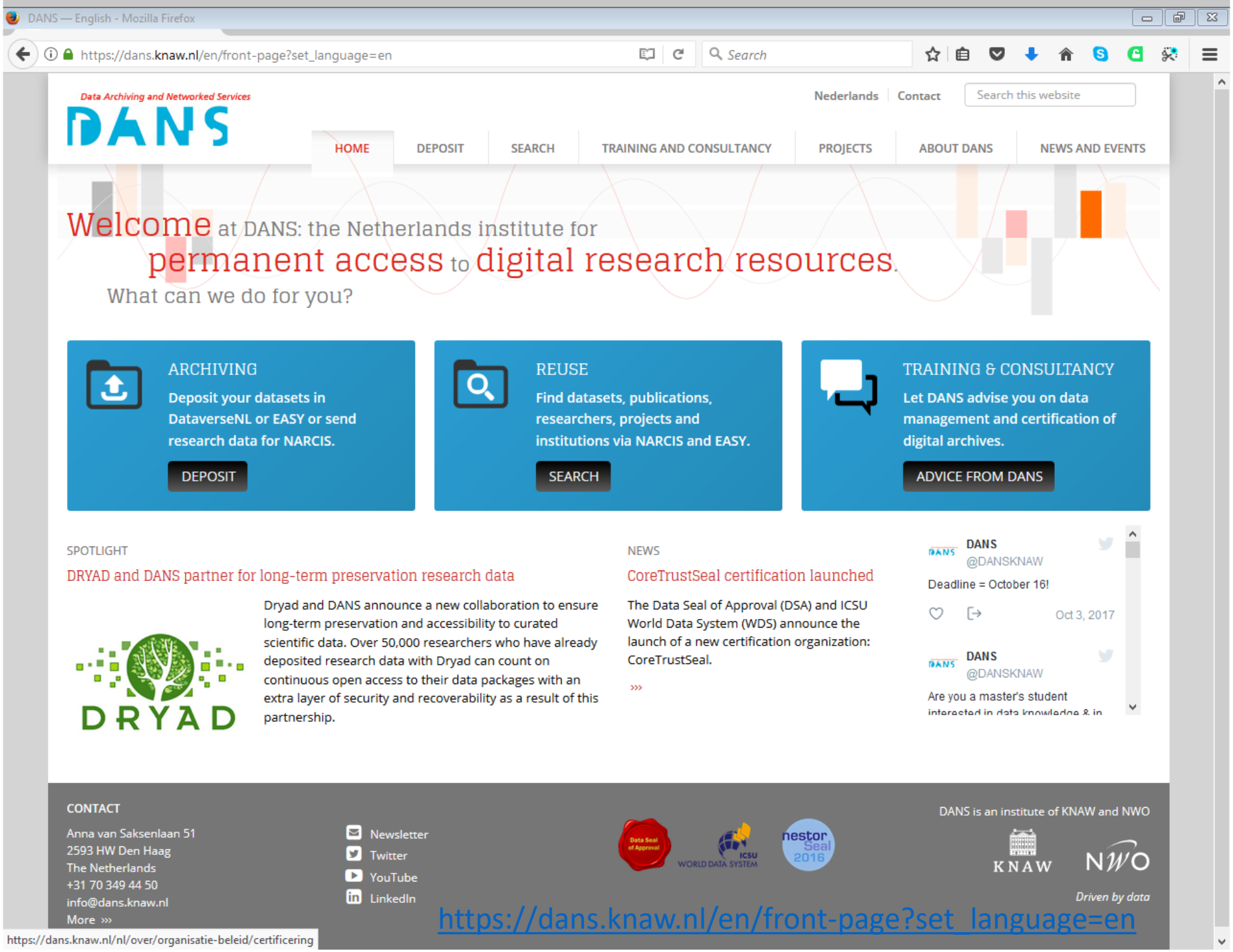
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DRYAD and DANS partner for long-term preservation research data
Dryad and DANS announce a new collaboration to ensure long-term preservation and accessibility to curated scientific data. Over 50,000 researchers who have already deposited research data with Dryad can count on continuous open access to their data packages with an extra layer of security and recoverability as a result of this partnership.
DRYAD
NEWS
CoreTrustSeal certification launched
The Data Seal of Approval (DSA) and ICSU World Data System (WDS) announce the launch of a new certification organization: CoreTrustSeal.
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Deadline = October 16!
Oct 3, 2017
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08 October
Scientists' data reuse behaviors: A multilevel analysis onlinelibrary.wiley.com/doi/10.1002/as... ($$)

04 October
Ethics of Internet research trigger scrutiny nature.com/news/ethics-of... via @martateperek by @NatureNews

03 October
Thanks to @IAMVerheul @ringejacq & rest of team for engaging meeting on Data Stewardship. Let's replace carrots / sticks with the sweet shop

Can we help?

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4TU.ResearchData (previously known as 3TU.Datacentrum) offers the knowledge, experience and the tools to archive research data in a standardized, secure and well-documented manner. It provides the research community with:

- A long-term archive for storing scientific research data
- Permanent access to, and tools for reuse of research data
- Advice and support on data management

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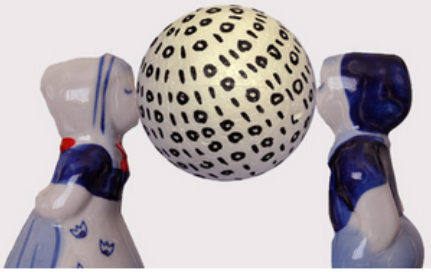
Essentials 4 Data Support is an introductory course for those people who (want to) support researchers in storing, managing, archiving and sharing their research data.

This website will be upgraded shortly. The content will remain available, but comments on individual pages will not be migrated.



Information

ABOUT THE COURSE >

Mission, target group & learning objectives

THREE WAYS TO GET STARTED >

Select how you want to start Essentials 4 Data Support and enrol

New course round

REGISTRATION FORM

New course starts February 8th, 2018.

The second face-to-face day is on 29 2018. You can register

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LEARN Project – LEARN Project: Leaders Activating Research Networks – Mozilla Firefox

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RDM Toolkit - Download It!

Case Studies. Model RDM Policy. Executive Briefing.

The LEARN Project has several resources to help Research Performing Institutions manage their research data. Using the LERU Roadmap for Research Data as a starting point, LEARN has produced the following freely-accessible materials.

Toolkit of Best Practice for Research Data Management

Our Toolkit includes 23 Case Studies covering topics such as Policy, Advocacy and Costs, a Model RDM Policy and an Executive Briefing in six core languages.

Download the Toolkit | Download Individual Sections of the Toolkit

Test your RDM readiness!

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