

3º ENCONTRO DAS  
**bibliotecas**  
de ensino superior

Porto | 2016  
2 e 3 de junho



# Gestão de Dados Científicos

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**DESENVOLVIMENTOS DE SERVIÇOS NAS  
INSTITUIÇÕES DE INVESTIGAÇÃO PORTUGUESAS**

# Gestão de Dados Científicos: intro

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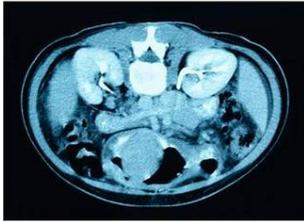
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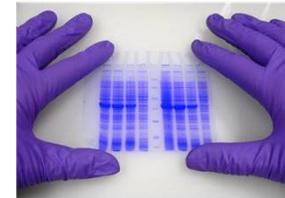
# *O que são dados científicos...*



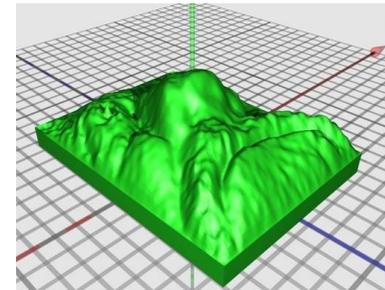
<http://epicgraphic.com/data-cake>



|          |            |            |            |         |
|----------|------------|------------|------------|---------|
| 10/29/04 | 124.761606 | 129.27356  | 122.260995 | 209.662 |
| 11/1/04  | 119.977679 | 129.534731 | 124.739135 | 176.316 |
| 11/2/04  | 130.46875  | 135.839924 | 130.84732  | 168.289 |
| 11/3/04  | 135.895502 | 149.510531 | 140.795689 | 120.686 |
| 11/4/04  | 134.127052 | 140.495868 | 132.823819 | 206.138 |
| 11/5/04  | 129.851598 | 137.880438 | 124.888856 | 189.675 |
| 11/8/04  | 123.797241 | 131.84633  | 126.146789 | 202.496 |
| 11/9/04  | 118.435374 | 130.691651 | 112.877008 | 140.366 |
| 11/10/04 | 112.401212 | 121.561443 | 114.237637 | 125.298 |
| 11/11/04 | 112.388488 | 128.496503 | 113.302591 | 192.223 |
| 11/12/04 | 129.011813 | 138.880759 | 128.517198 | 108.701 |
| 11/15/04 | 127.077465 | 139.289941 | 129.528986 | 127.406 |
| 11/16/04 | 124.9785   | 135.363241 | 127.454638 | 129.669 |
| 11/17/04 | 124.294035 | 133.242253 | 124.704841 | 244.567 |
| 11/18/04 | 125.663717 | 135.159011 | 125.476984 | 169.271 |
| 11/19/04 | 123.704853 | 127.612613 | 124.25382  | 170.401 |
| 11/22/04 | 118.926697 | 122.818967 | 115.379664 | 134.970 |

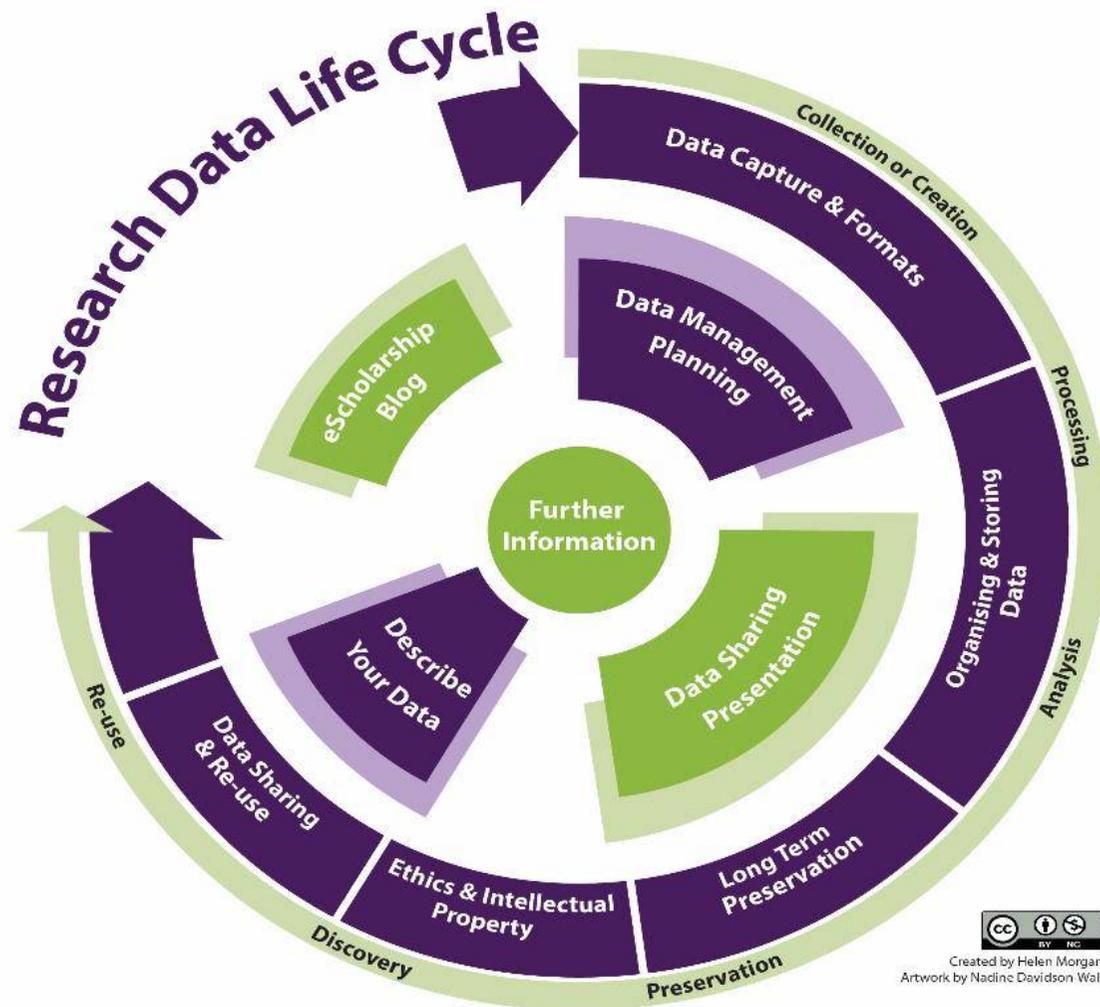


*Todo o tipo de registos produzidas no decurso da investigação.*

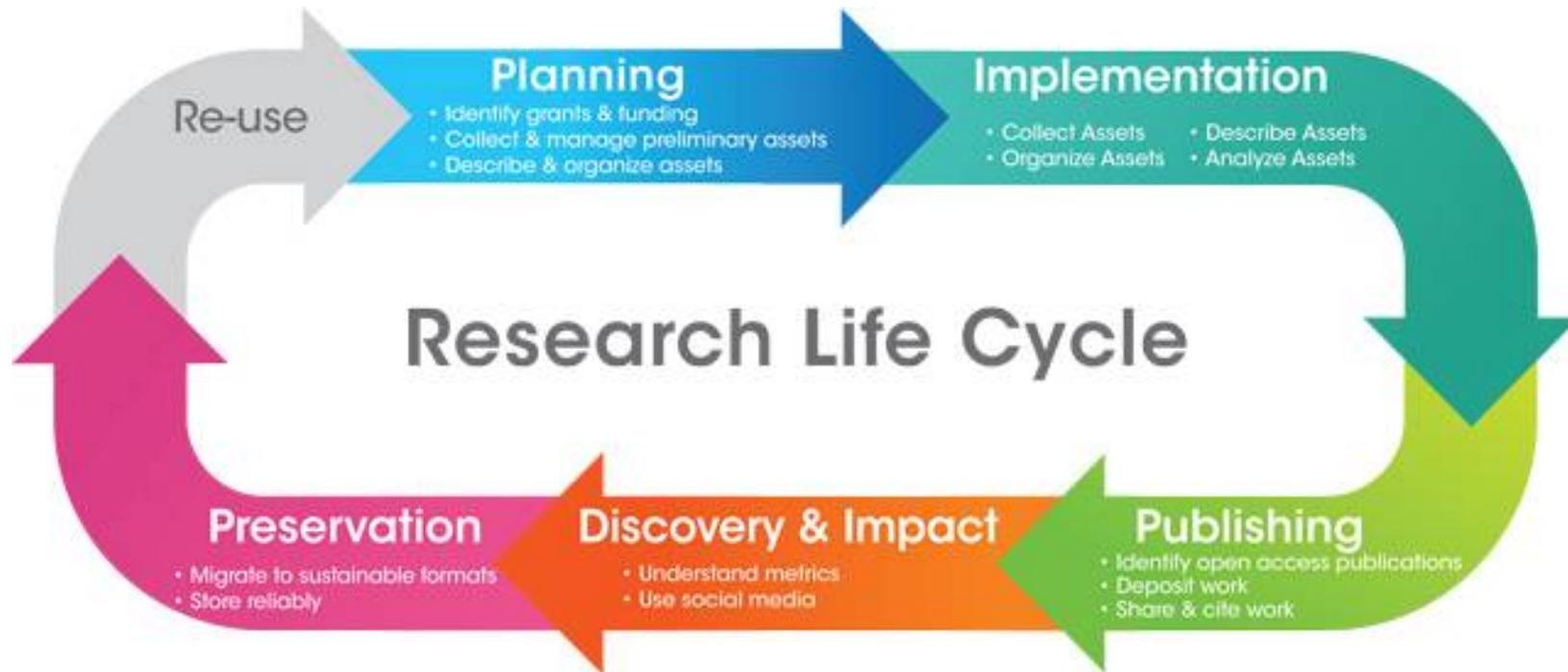


# A Gestão de Dados





Univ. Queensland <http://guides.library.uq.edu.au/research-data-management>



Scheme from University of California- Irvine <http://www.lib.uci.edu/dss>



IMAGE: [HTTPS://WWW.FLICKR.COM/PHOTOS/DMH650/4031607067/IN/GALLERY-WLEF70-72157633022909105/](https://www.flickr.com/photos/dmh650/4031607067/in/gallery-wlef70-72157633022909105/)

Data management is a part of good research practice.

RCUK Policy and Code of Conduct on the Governance of Good Research Conduct

Responsible data management is part of good research.

NWO - Introduction to the pilot Data Management

# GESTÃO DE DADOS CIENTÍFICOS ADEQUADA IRÁ:

1. Aumentar o impacto da investigação
2. Melhorar a acessibilidade
3. Prevenir o uso inadequado
4. Salvar os dados produzidos
5. Assegurar compatibilidade



# Eixos de intervenção das instituições & Planos de ação e estratégias para as bibliotecas na gestão dos dados científicos

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1 & 2



# 6 regras para as instituições de investigação

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1. Compreender **como a instituição lida** com dados científicos.
2. Conceber **um caso** para Gestão de Dados e reunir apoios.
3. Definir o posicionamento da sua instituição sobre a GDC para instituir uma **política e estratégia**.
4. Assegurar que os investigadores estão conscientes sobre os **dados que existem** disponíveis.
5. Providenciar serviços robustos de **armazenamento** de dados e fáceis de utilizar.
6. Tornar mais fácil aos outros **encontrarem e citarem dados** de investigação.

# PROCESSOS E ÁREAS DE AÇÃO NAS INSTITUIÇÕES



## CICLO DE VIDA DA INVESTIGAÇÃO

DMPs, dados existentes, documentação, metadados, datasets, depositar, partilhar



## INFRAESTRUTURA

Arquivos de dados, repositórios, acesso, licenças, preservação, cloud, DOI



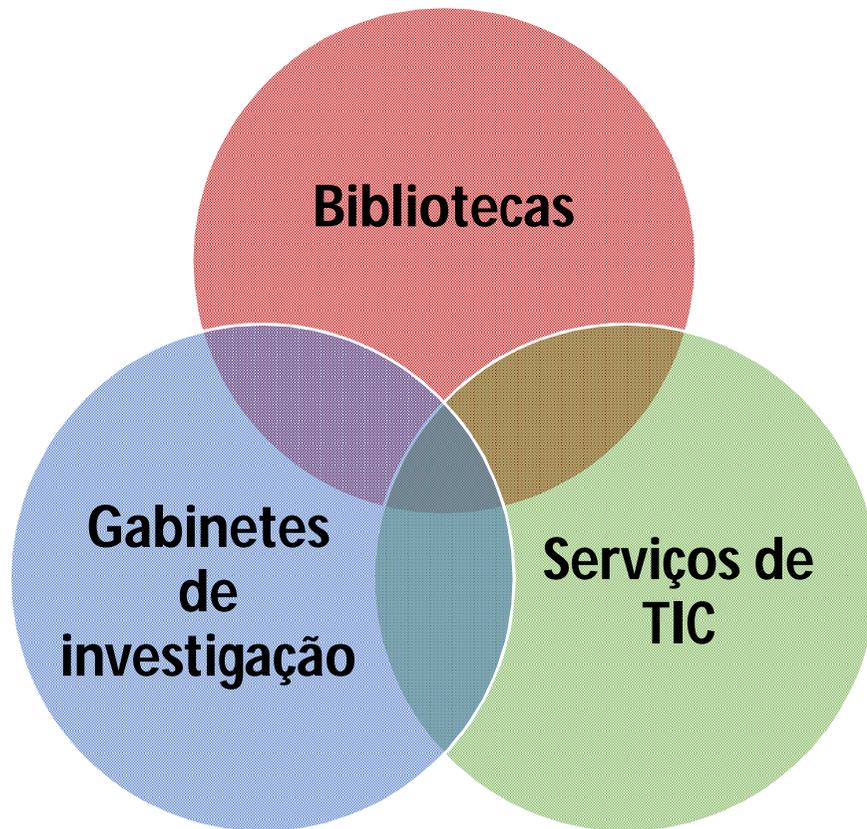
## GOVERNAÇÃO

Financiadores, Universidades, Instituições de Investigação, Políticas, Protocolos



# Quem está envolvido na instituição?

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## **LERU roadmap:**

- ✓ researchers,
- ✓ academic faculty,
- ✓ senior managers such as Vice-Rectors Research,
- ✓ doctoral training centers,
- ✓ planning offices,
- ✓ research support staff,
- ✓ legal offices,
- ✓ IT services,
- ✓ libraries and information services

# Áreas de envolvimento das Bibliotecas



Serviços de  
Suporte

Infraestrutura e  
normalização



Políticas e  
prática por  
disciplinas

Competências e  
recursos  
humanos



# O que é que a GDC oferece às Bibliotecas...

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## Possibilidade:

- De estabelecer **credibilidade** numa nova área de envolvimento.
- De explorar e aprender novas **competências técnicas**.

## Oportunidade:

- De **aproximação** à comunidade de investigadores e seus **processos de investigação** (relações de trabalho mais próximas).
- De **'sujar as mãos'** com dados não publicados ou dados em bruto que são os blocos de **construção do conhecimento**.



# Ten recommendations for libraries to get started with research data management

Final report of the LIBER working group on E-Science / Research Data Management

**Ligue des Bibliothèques Européennes de Recherche  
*Association of European Research Libraries***



ADVICE PAPER  
No.14 - DECEMBER 2013

## LERU ROADMAP FOR RESEARCH DATA

LERU RESEARCH DATA WORKING GROUP

**League of European Research Universities**



## 23 Things: Libraries for Research Data

An overview of practical, free, online resources and tools that you can begin using today to incorporate research data management into your practice of librarianship.

Research Data Sharing Without Barriers

### Learning Resources

Librarians are learning how to apply the principles of library science to solve problems and to provide new services related to research data.

1. A "top ten" list of recommendations for libraries to get started with research data management from LIBER, <http://bit.ly/2qUvKGG>
2. Relevant concepts are presented and mapped in the e-Science Thesaurus, <http://bit.ly/1Eo4h8R>
3. Understanding the life of research data with the DCC Curation Lifecycle Model, <http://bit.ly/1MoGGGv>
4. MANTRA online training modules for librarians, <http://bit.ly/1RRvYju>
5. Read the most current literature in the Digital Curation Bibliography, <http://bit.ly/1j0lvX>
6. Dozens of examples of resource guides created by librarians for patrons to learn more about data on the SpringShare LibGuide Community Site, <http://bit.ly/1DvMDcr>

Learning Resources  
Data Reference and Outreach  
Data Management Plans  
Data Literacy  
Citing Data  
Data Licensing and Privacy  
Digital Preservation  
Data Repositories  
and a Community of Practice  
*...to help librarians engage in research data management!*

### Data Reference & Outreach

Librarians are answering questions about data from patrons and conducting outreach to assess the data needs of their researchers and students.

7. Begin a conversation with a researcher about data by **Conducting a Data Interview**, <http://bit.ly/1opHoyQ>
8. Learn more about a researcher's needs by reading or creating your own **Data Curation Profile**, <http://bit.ly/1ehftXh>
9. Develop engagement materials to help your librarians such as the **DataOne Librarian Outreach Kit**, <http://bit.ly/1gOU3mn>

10. Questions about data answered by experts on the **DataQ** forum, <http://bit.ly/1MoHqVg>

### Data Management Plans

Librarians are becoming familiar with funder requirements and consulting with researchers to help them write and implement effective data management plans.

11. One example is the DMPTool that lists funder requirements in the United States and builds a plan by asking the researcher to answer a series of questions. Other countries such as the U.K. and Canada have similar tools, <http://bit.ly/1LuNZMH>

### Data Literacy

Librarians are including data in their information literacy instruction, to recognize when patrons have a need for data and have the ability to locate, evaluate, and use data.

12. The **Data Information Literacy** project and book developed a curriculum to help librarians and other teachers incorporate data into information literacy outreach and instruction, <http://bit.ly/1KkQvws>

# Recomendações da LIBER sobre o papel das bibliotecas

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Ten recommendations  
for libraries to get  
started with research  
data management

Final report of the LIBER working group on E-Science / Research Data Management

# Ten recommendations for libraries to get started with research data management :

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- 1. Offer research data management support, including data management plans for grant applications, intellectual property rights advice and information materials. Assist faculty with data management plans and the integration of data management into the curriculum.**
- 2. Engage in the development of metadata and data standards and provide metadata services for research data.**
- 3. Create Data Librarian posts and develop professional staff skills for data librarianship.**
- 4. Actively participate in institutional research data policy development, including resource plans. Encourage and adopt open data policies where appropriate in the research data life cycle.**
- 5. Liaise and partner with researchers, research groups, data archives and data centers to foster an interoperable infrastructure for data access, discovery and data sharing.**

# Ten recommendations for libraries to get started with research data management :

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6. Support the lifecycle for research data by providing services for storage, discovery and permanent access.
7. Promote research data citation by applying persistent identifiers to research data.
8. Provide an institutional Data Catalogue or Data Repository, depending on available infrastructure.
9. Get involved in subject specific data management practice.
10. Offer or mediate secure storage for dynamic and static research data in co-operation with institutional IT units and/or seek exploitation of appropriate cloud services.

# 10 Recommendations for libraries to get started with research data management

## Regrouping the recommendations – Areas of engagement

### Support services

**#1** Offer **research data management support**, including data management plans for grant applications, intellectual property rights advice and information materials. Assist faculty with data **management plans** and the integration of data management into the **curriculum**.

**#6** Support the **lifecycle** for research data by providing **services for storage, discovery and permanent access**.

### Infrastructure & standards

**#2** Engage in the development of **metadata and data standards** and provide **metadata services** for research data.

**#5** **Liaise and partner with researchers**, research groups, data archives and data centers to foster an interoperable infrastructure for data access, discovery and data sharing.

**#7** Promote **research data citation by applying persistent identifiers** to research data.

**#8** Provide an **institutional Data Catalogue or Data Repository**, depending on available infrastructure.

**#10** Offer or mediate secure **storage** for dynamic and static research data **in co-operation with institutional IT units** and/or seek exploitation of appropriate cloud services.

### Policy & disciplinary practices

**#4** Actively participate in **institutional research data policy development**, including resource plans. Encourage and adopt open data policies where appropriate in the research data life cycle.

**#7** ... (with some disciplinary views on data citation)

### Skills & staffing

**#3** Create **Data Librarian posts** and develop **professional staff skills** for data librarianship.

**#1** ... and the integration of data management into the **curriculum**.



# Recomendações da LIBER revisitadas

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## Serviços de suporte

#1 #6

## Infraestrutura & normalização

#2 #5 #7 #8 #10

## Políticas & prática por disciplinas

#4 #7

## Competências & recursos humanos

#3 #1

# 1. Apoio na gestão dos dados científicos

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Offer research data management support, including data management **plans for grant applications**, intellectual property **rights** advice and **information** materials. Assist faculty with data management plans and the integration of data management into the curriculum.

# Serviços da Data Library da Universidade de Edimburgo

**THE UNIVERSITY of EDINBURGH**

Schools & departments

Search

## INFORMATION SERVICES

Information Services home

Research Support

**Data Library and consultancy**

- DataShare repository
- Finding data
- Research Data Management Training (MANTRA)
- Survey Documentation and Analysis
- Accessing data
- Using data
- Contact us

Home > Information Services > Research Support > Data Library and consultancy [Contact us](#)

### Data Library and consultancy

Help researchers discover, use, manage and learn about datasets for analysis, learning and teaching.

#### DataShare repository

Everything you need to know to deposit and begin sharing your data.

#### Finding Data

Browse dataset holdings and find free data on the internet.

#### Research Data Management Training

MANTRA is a free online course for learning to manage research data.

#### Survey Documentation and Analysis (SDA)

Analyse and visualise statistical data online.

#### Accessing data

How to access data from national data services and the Data Library collection.

#### Using data

User guides, online learning resources for the use of different kinds of research data and information about taught training courses on working with data.

<http://www.ed.ac.uk/information-services/research-support/data-library>

# Serviços, recursos e guias para a gestão de dados científicos na Universidade Monash

The screenshot shows the Monash University Library website. At the top, there is a navigation bar with links for 'Monash University home', 'my.monash', 'Current Students', 'Staff', and 'Contact us'. A search bar is located on the right. The main header features the Monash University logo and the word 'Library'. Below this is a secondary navigation menu with categories like 'About us', 'Libraries', 'Collections', 'Research and learning skills', 'Managing research data' (highlighted), 'Services and facilities', and 'Alumni and visitors'. The main content area is titled 'Managing research data' and features a large image of a green leaf with a water droplet. To the right of the image, the text reads 'Data collection, storage and dissemination'. Below this are several smaller tiles with titles and 'Find out more' buttons: 'Benefits of data planning', 'Data management at Monash University', 'Sharing and disseminating data', 'Understanding ownership and rights', 'Choosing the right data storage', 'Advice and planning', 'Making your data secure', and 'Data retention and disposal'. At the bottom, there is a 'Contacts' section and a footer with 'Quick Links', 'About Monash', 'Library', and 'A member of GROUP OF EIGHT AUSTRALIA'. Small text at the very bottom provides copyright and accessibility information.

<http://www.monash.edu/library/researchdata>

## 2. Desenvolvimento de normas e serviços de metadados

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Engage in the development of **metadata** and data **standards** and provide metadata **services** for research data.



[Home](#) > [Drupal](#) > [Resources](#) > [Metadata Standards](#)

### 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**
  - [Disciplinary Metadata](#)
  - [DIFFUSE](#)
- [Publications and presentations](#)
- [Roles](#)
- [Curation journals](#)
- [Informatics research](#)
- [External resources](#)
- [Online Store](#)

## Disciplinary Metadata

While data curators, and increasingly researchers, know that good metadata is key for research data access and re-use, figuring out precisely what metadata to capture and how to capture it is a complex task. Fortunately, many academic disciplines have supported initiatives to formalise the metadata specifications the community deems to be required for data re-use. This page provides links to information about these disciplinary metadata standards, including profiles, tools to implement the standards, and use cases of data repositories currently implementing them.

For those disciplines that have not yet settled on a metadata standard, and for those repositories that work with data across disciplines, the General Research Data section links to information about broader metadata standards that have been adapted to suit the needs of research data.

Please note that a community-maintained version of this directory  has been set up under the auspices of the Research Data Alliance.

### Search by Discipline



[Biology](#)



[Earth Science](#)



[General Research Data](#)



[Physical Science](#)



[Social Science & Humanities](#)

<http://www.dcc.ac.uk/resources/metadata-standards>



# DataCite Metadata Schema Repository

## Metadata Store

### Feedback

If you have any comments on

- any challenges you face with the current schema - i.e. what's not working for you?
- any ideas you have for additions that would make the schema work better for you, or
- questions you have about the schema,

please contact us via our [Google discussion group](#). We will review the suggestions and comments on a monthly basis, and reply using this same discussion forum.

### Available versions

For our [Metadata store](#) all these versions are valid although only one version is considered *preferred* at any given moment of time. Starting with version 3.0 only major releases will have a new namespace.

Each incoming to [Metadata store](#) XML document should indicate schema location in the root element.

- [DataCite Metadata Schema 3 latest release](#) (preferred)
  - [DataCite Metadata Schema 3.1](#) (released 2014-10-16)
  - [DataCite Metadata Schema 3.0](#) (released 2013-07-24)
- [DataCite Metadata Schema 2.2](#) (released 2011-07-01)
- [DataCite Metadata Schema 2.1](#) (released 2011-03-03)

<https://schema.datacite.org/>

## Documentation and metadata

### Match the metadata

Drag the metadata field to its corresponding metadata category.

| Descriptive                   | Administrative       | Structural                 |
|-------------------------------|----------------------|----------------------------|
| location ✓                    | data processing ✓    | variable list ✓            |
| funder ✓                      | file formats ✓       | database schema ✓          |
| project start and end dates ✓ | rights statement ✓   | taxonomy ✓                 |
| subject ✓                     | Project identifier ✓ | directory & file listing ✓ |
| language ✓                    | methodology ✓        | data dictionary ✓          |
| data citation ✓               | sources ✓            |                            |
| title ✓                       | version ✓            |                            |
| data creator ✓                |                      |                            |

Check Answers



11 / 19



[http://datalib.edina.ac.uk/xerte/play.php?template\\_id=4](http://datalib.edina.ac.uk/xerte/play.php?template_id=4)

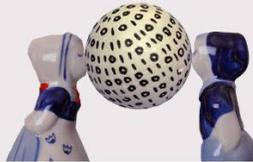
# 3. Desenvolvimento de competências

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Create **Data Librarian** posts and develop professional **staff skills** for data librarianship.

**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.

Essentials 4 Data Support is a product of Research Data Netherlands.



## RDM Support

Basic training course for information specialists

MANTRA is a free online course designed for researchers or others who manage digital data as part of a research project.



Learning Units: Select one to start

★★★★☆ Rate MANTRA (36 votes)

|                                    |  |  |
|------------------------------------|--|--|
| Research data explained > <i>i</i> | File formats & transformation > <i>i</i>     | Data protection, rights & access > <i>i</i>  |
| Data management plans > <i>i</i>   | Documentation, metadata, citation > <i>i</i> | Sharing, preservation & licensing > <i>i</i> |
| Organising data > <i>i</i>         | Storage & security > <i>i</i>                | Data handling tutorials > <i>i</i>           |



### RDMRose Learning Materials

On this page:

- Session 1: Introductions, RDM, and the Role of LIS
  - Session 1.1: Introduction to the RDMRose module
  - Session 1.2: RDM basics
  - Session 1.3: The LIS role in RDM
  - Session 1.4: Reflection and reflective writing
- Session 2: The Nature of Research and the Need for RDM
  - Session 2.1: The social organisation of research

**ABOUT RDMROSE**  
RDMRose is a JISC funded project to produce taught and continuing professional development (CPD) learning materials in Research Data Management (RDM) tailored for information professionals.

**GIVE US FEEDBACK**  
If you have used any of the RDMRose learning materials, be it for your own use as self-supported CPD or as an educator, we would really

## Projetos europeus relevantes:

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FACILITATE OPEN SCIENCE TRAINING FOR EUROPEAN RESEARCH

Open Science Training for National  
Contact Points (NCP)



29 Apr 2016 to 27 May 2016

### What to do:

 [Advanced search](#)

- [Take Courses](#)
- [Create Courses](#)
- [See upcoming events](#)

### News

- [Love research data management](#)
- [Go to the project website](#)

### Featured Topics



Open Access



Open Science



Open Data



Research Data Management



Open Science Policies



Funders policies



Open Access policies



Open Repositories

[View all topics](#)



# 4. Políticas institucionais de gestão dos dados

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Actively participate in institutional research **data policy development**, including resource plans. Encourage and adopt **open data** policies where appropriate in the research **data life cycle**.

# Políticas institucionais de GDC

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[http://youtu.be/V8IldfBAr\\_0](http://youtu.be/V8IldfBAr_0)

# LERU ROADMAP FOR RESEARCH DATA

LERU RESEARCH DATA WORKING GROUP

## LEAGUE OF EUROPEAN RESEARCH UNIVERSITIES

University of Amsterdam - Universitat de Barcelona - University of Cambridge - University of Edinburgh - University of Freiburg - Université de Genève - Universität Heidelberg - University of Helsinki - Universiteit Leiden - KU Leuven - Imperial College London - University College London - Lund University - University of Milan - Ludwig-Maximilians-Universität München - University of Oxford - Pierre & Marie Curie University - Université Paris-Sud - University of Strasbourg - Utrecht University - University of Zurich

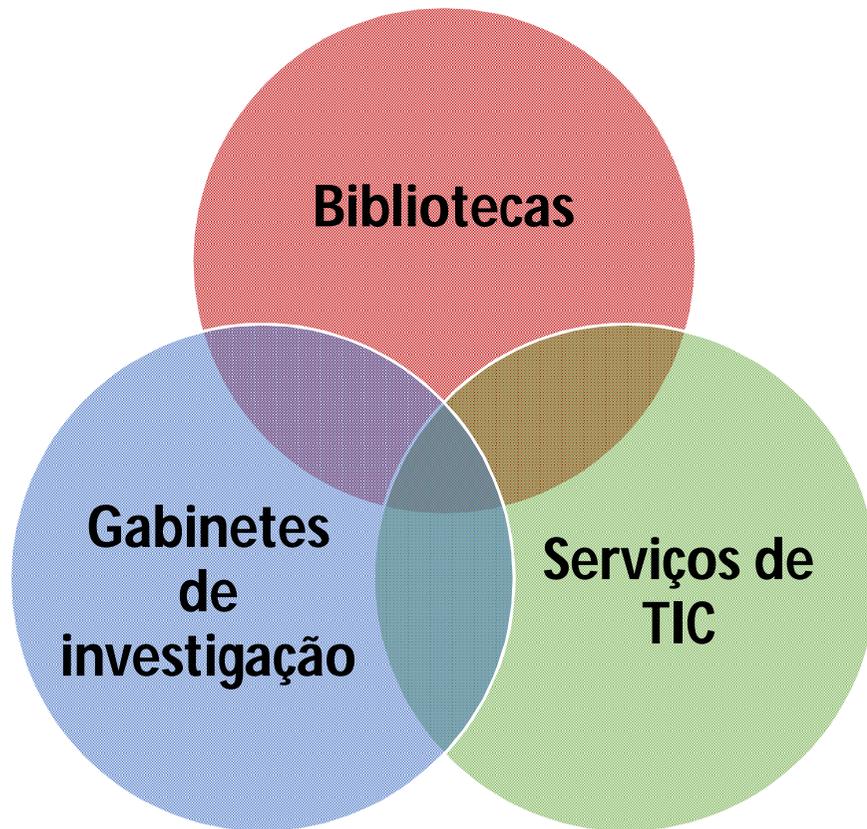
## 5. Trabalhar em articulação com os parceiros para fomentar infraestruturas

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**Liaise and partner** with researchers, research groups, data archives and data centers to foster an interoperable infrastructure for data access, discovery and data sharing.

# Quem está envolvido na instituição?

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## **LERU roadmap:**

- ✓ researchers,
- ✓ academic faculty,
- ✓ senior managers such as Vice-Rectors Research,
- ✓ doctoral training centers,
- ✓ planning offices,
- ✓ research support staff,
- ✓ legal offices,
- ✓ IT services,
- ✓ libraries and information services

*Seeking the real win + win + win + win + win.....*

Where do I safely keep my data from my fieldwork, as I travel home?

How do we ensure we have access to our research data after some of the team have left?

How can our research collaborations share data, and make them available once complete?

How can I best keep years worth of research data secure and accessible for when I and others need to re-use it?

How do we ensure compliance to funders' requirement for several years of open access to data?

PhD student

individual researcher

research team

university

supra-university

## 6. Disponibilizar serviços de curadoria no ciclo de vida dos dados científicos

---

**Support the lifecycle** for research data by providing services for **storage, discovery** and **permanent access**.



[View plans](#)

[Create plan](#)

[About](#)

[Roadmap](#)

[Help](#)

## My plans

The table below lists the plans that you have created, and any that have been shared with you by others. These can be edited, shared, exported or deleted at anytime.

<https://dmponline.dcc.ac.uk>

A Digital Curation Centre  
'working level' guide



## How to Develop a Data Management and Sharing Plan

Sarah Jones (DCC)



Digital Curation Centre, 2011.  
Licensed under Creative Commons Attribution 2.5 Scotland:  
<http://creativecommons.org/licenses/by/2.5/scotland/>

# DMP *online*

The  DCC Data Management Planning Tool

<https://dmponline.dcc.ac.uk>

[www.dcc.ac.uk/resources/how-guides/develop-data-plan](http://www.dcc.ac.uk/resources/how-guides/develop-data-plan)

# 7. Citação dos dados e links e identificadores permanentes

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Promote research **data citation** by applying persistent identifiers to research data.

Find Research Data:

Search

Search our site:

Go

ANDS Home

About ANDS

Partners & Communities

Data Management

Metadata

Discovery, Access, Reuse

Guides and Publications

Online Services

Technical Resources

News, Events, Updates

Quick Links

> ANDS > ANDS Guides

## Data Citation Awareness

 Download PDF version of this guide

### Who should read this?

This guide is intended for eResearch infrastructure support providers and researchers. It includes a range of issues concerning data citation and how the culture of data citation is developing as a scholarly practice.

### What do we mean by data citation?

Data citation refers to the practice of providing a reference to data in the same way as researchers routinely provide a bibliographic reference to other scholarly resources. While data has often been shared in the past, it is seldom cited in the same way as journal articles or other publications. This culture is, however, changing. Data citation underpins the recognition of data as a **primary** research output rather than as a by-product of research. When datasets are cited, they achieve a validity and significance within the scholarly communications cycle. Citation of data enables recognition of scholarly effort in disciplines and organisations that want to acknowledge and reward data outputs.

### Did you know that ...

- The creation of data is increasingly being recognised as a primary research output

#### ANDS News



#### Data Librarians Online Catchup

Theme 'Stories from the Field'. 8 Oct 2015 12.30-1.15pm AEDT  
[Register](#)



#### Searching Grants and Projects portal on Research Data Australia

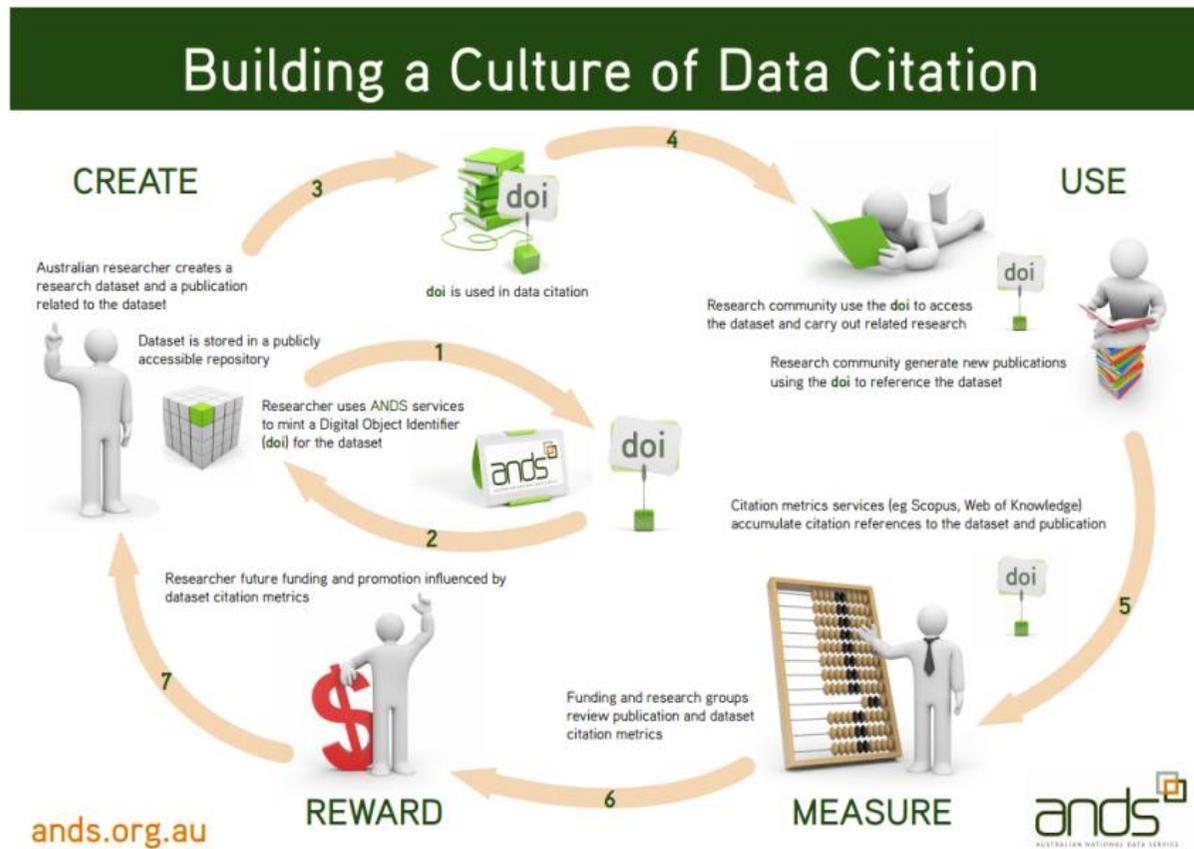
Short 3 min run through on how to search the Grants and Projects portal on Research Data Australia. [Watch](#)



#### ANDS launches Research Vocabularies Australia

ANDS has launched a new controlled vocabulary service of agreed research terms used by Australian researchers. [More](#)

# Identification of datasets favours their use and citation



Australian National Data Service. <http://www.ands.org.au/cite-data/index.html>



## Data Citation (1):

### credit for data producers and collectors

- Should comply with Force 11 Data Citation Principles
- Minimum Requirements
  - author names, repository name, date + persistent unique identifier (such as DOI or URI)
- citation should link to the dataset directly via the persistent identifier
- comprehensive, machine-readable landing pages for deposited data
- guidance to authors to include data in references



<https://www.force11.org/group/joint-declaration-data-citation-principles-final>





## Vole Biodiversity Layers

When using this data, please cite the original article:

Wint W, Morley D, Alexander NS (2013) Four rodent and vole biodiversity models for Europe. *Journal of Open Public Health Data* 1(1): e3. [doi:10.5334/jophd.ac](https://doi.org/10.5334/jophd.ac)

Additionally, please cite the Dryad data package:

Wint W, Morley D, Alexander NS (2013) Data from: Four rodent and vole biodiversity models for Europe. Dryad Digital Repository. [doi:10.5061/dryad.771gr](https://doi.org/10.5061/dryad.771gr)

[Cite](#) | [Share](#)

|                                  |  |
|----------------------------------|--|
| <b>Keywords</b>                  | Rodent, Vole, Biodiversity, Tick-Borne, Rodent-Borne, Hantavirus, Linear Regression, Random Forest, Generalised Linear Modelling, EDENext extent   |
| <b>Date Submitted</b>            | 2013-06-24T17:09:37Z   |
| <b>Scientific Names</b>          | Apodemus agrarius, Apodemus flavicollis, Apodemus mystacinus, Apodemus sylvatica, Clethrionomys glareolus, Microtus arvalis, Microtus subterraneus, Rattus norvegicus, Rattus rattus, Sorex araneus, Sorex minutus |
| <b>Spatial Coverage</b>          | Europe, 72.3N, 34.0E, 12.0W, 47.6N   |
| <b>Contained in Data Package</b> | Data from: Four rodent and vole biodiversity models for Europe.  |

### Description

Four rodent and vole biodiversity index predicted distribution maps have been generated to support investigations on how species richness can affect the spread of Hantavirus and Tick Borne Virus (TBV).

[Show Full Metadata](#)

### Ficheros en el ítem



**Nombre:** README.txt [Ver/⟨wbr⟩>Abrir](#)  
**Tamaño:** 3.774Kb  
**Formato:** Fichero de texto  
**Descripción:** dc\_readme  
**Checksum (MD5):** 00c311411c092f38f0cdc73343f8aabe



**Nombre:** volebiodiv2.zip [Ver/⟨wbr⟩>Abrir](#)  
**Tamaño:** 327.7Mb  
**Formato:** application/zip  
**Descripción:** dataset-file  
**Checksum (MD5):** eb9e7764f5b86d240302d7a000e15415

# 8. Repositórios de dados

---

Provide an **institutional Data Catalogue** or **Data Repository**, depending on available **infrastructure**.



WHERE DO YOU STORE  
YOUR RESEARCH DATA?

- USB DRIVE
- DROPBOX
- RESEARCH DATA REPOSITORY

**re3**data.org  
REGISTRY OF RESEARCH DATA REPOSITORIES

# 9. Envolver-se e praticar a gestão de dados científicos

---

Get involved in subject specific **data management practice**.



Universidade do Minho

Serviços de Documentação

Biblioteca Digital

Catálogo Bibliográfico

Pesquisa rápida

Pesquisa avançada  
Pesquisa por assunto

[Página principal](#)

Percorrer:

[Comunidades & Coleções](#)

[Título](#)

[Autor](#)

[Orientador](#)

[Assunto](#)

[Data de publicação](#)

[Tipo de documento](#)

Entrar:

[Serviço de alertas](#)

[Área Pessoal  
utilizadores autorizados](#)

[Editar conta](#)

Ajudas:

[FAQs](#)

[Guias](#)

Universidade do Minho >

Percorrer por autor **Príncipe, Pedro**

Índice: 0-9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

ou inserir as letras iniciais:

Enviar

Ordenar por: **título**

Em ordem: **ascendente**

Resultados/Página **20**

Autores/Registo: **3**

Atualizar

Mostrar resultados 1-14 de 14.

| Data        | Título  | Autor(es)   |
|-------------|---|---|
| Out-2012    | Acesso Aberto à literatura científica em Portugal : o passado, o presente e o futuro  | <i>Saraiva, Ricardo; Rodrigues, Eloy; Príncipe, Pedro, et al.</i>       |
| 22-Jun-2011 | European open access policies in FP7 : openAIRE's infrastructure & support  | <i>Schmidt, Birgit; Príncipe, Pedro</i>                                 |
| Nov-2013    | Os investigadores em Portugal e a sua relação com o Acesso Aberto à produção científica   | <i>Príncipe, Pedro; Boavida, Clara Parente; Rodrigues, Eloy, et al.</i> |
| 2013        | Os investigadores em Portugal e a sua relação com o Acesso Aberto à produção científica   | <i>Rodrigues, Eloy; Boavida, Clara; Carvalho, José, et al.</i>          |
| 1-Out-2012  | Os investigadores em Portugal e a sua relação com o Acesso Aberto à produção científica   | <i>Boavida, Clara; Rodrigues, Eloy; Carvalho, José, et al.</i>          |
| 2012        | Os investigadores em Portugal e a sua relação com o Acesso Aberto à produção científica [Dados]   | <i>Rodrigues, Eloy; Carvalho, José; Boavida, Clara, et al.</i>          |
| 2011        | NECOBELAC : uma rede de colaboração entre os países da Europa, América Latina e Caribe na área da saúde pública para promover os modelos de publicação em acesso aberto | <i>Carvalho, José; Rodrigues, Eloy; Príncipe, Pedro</i>                 |
| 3-Set-2013  | OpenAIRE guidelines for data archive, literature repository and CRIS managers   | <i>Príncipe, Pedro; Rodrigues, Eloy; Rettberg, Najla, et al.</i>        |

<http://repositorium.sdum.uminho.pt/handle/1822/23392>

# 10. Oferecer ou mediar serviços de armazenamento

---

Offer or mediate secure storage for dynamic and static research data in co-operation with institutional IT units and/or seek exploitation of appropriate cloud services.

# PROCESSOS E ÁREAS DE AÇÃO NAS INSTITUIÇÕES



## INFRAESTRUTURA

Arquivos de dados,  
repositórios, acesso,  
licenças, preservação,  
cloud, DOI

Política e estratégia de  
GDC

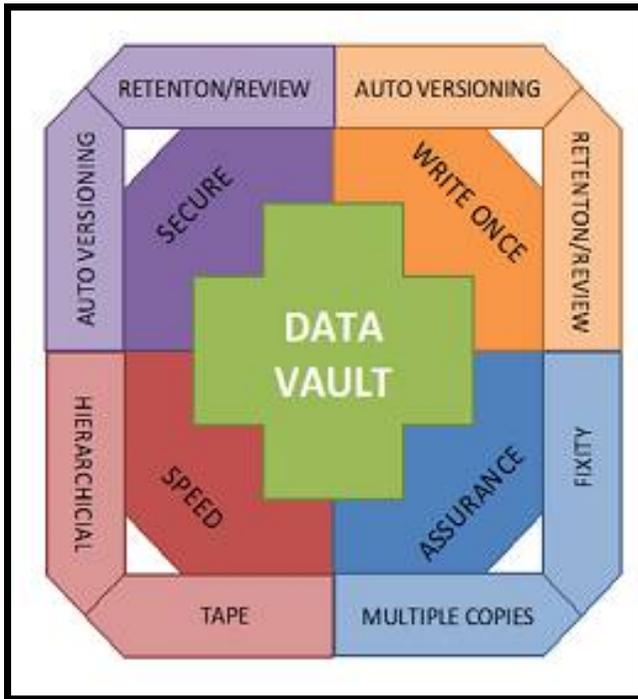
Planos de negócio e  
sustentabilidade



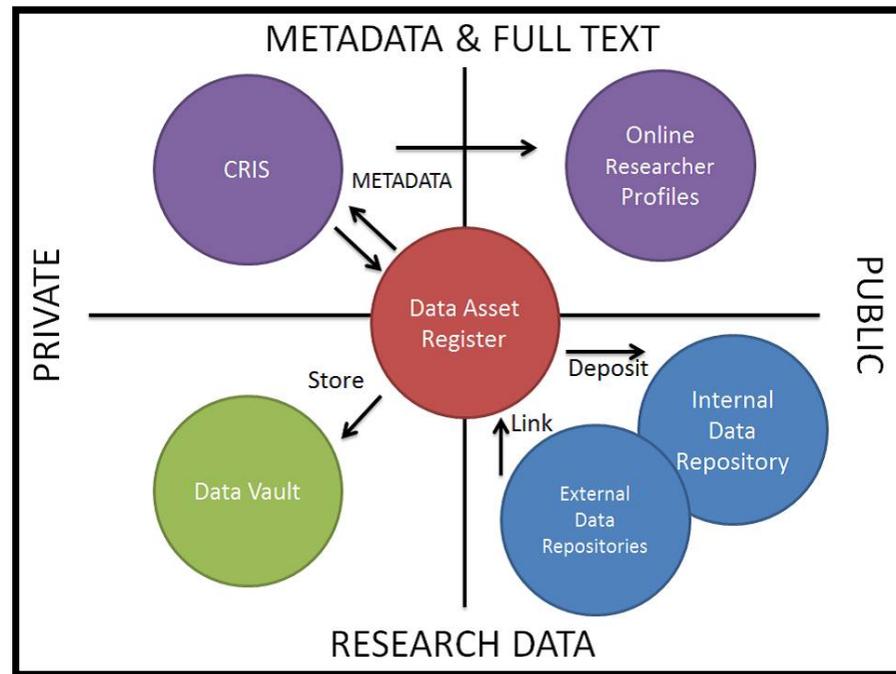
· suporte

· guias

· formação



<http://datablog.is.ed.ac.uk/2013/12/20/thinking-about-a-data-vault>

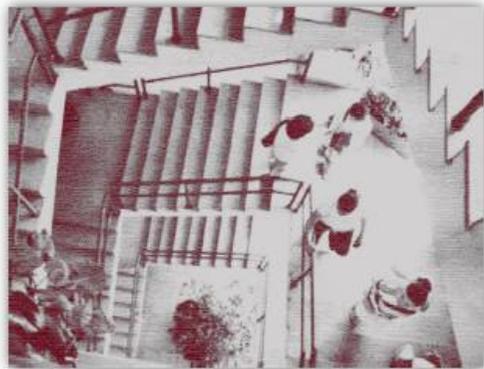


<http://datablog.is.ed.ac.uk/2013/12/12/thinking-about-research-data-asset-registers>

## PLANO DE INTERVENÇÃO

2014-2015

SERVIÇOS DE SUPORTE À GESTÃO  
DOS DADOS CIENTÍFICOS NA UM



Março de 2014



## PLANO DE INTERVENÇÃO

- Elaborado em janeiro de 2014
- Apresentado a toda a equipa dos SDUM em março de 2014
- Resulta de um trabalho de análise da equipa de projetos Open Access
- Define 10 eixos de intervenção
- 33 ações programadas para 2014 e 2015



# Áreas estratégicas do plano de intervenção 2014-2015 dos SDUM:



Universidade do Minho  
Serviços de Documentação

Serviços de Documentação da Universidade do Minho

PLANO DE INTERVENÇÃO  
2014-2015

SERVIÇOS DE SUPORTE À GESTÃO  
DOS DADOS CIENTÍFICOS NA UM



Março de 2014

Diagnóstico & política

Serviços de suporte & informação

Infraestruturas & normalização

Competências & recursos humanos



# Diagnóstico: 1) passo - Inquérito sobre Dados Científicos na UMinho



Universidade do Minho  
Serviços de Documentação

## Inquérito sobre Dados Científicos

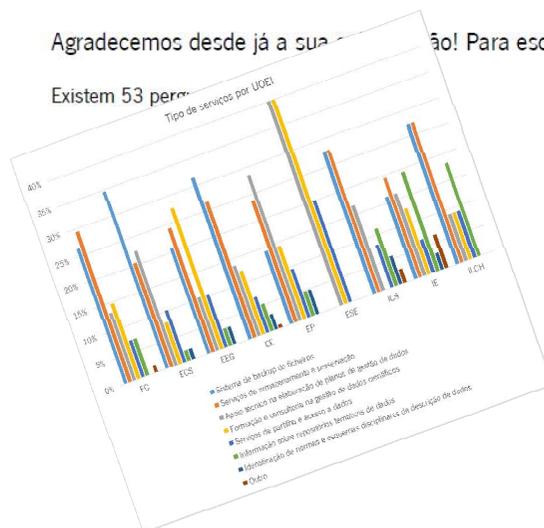
Este inquérito por questionário pretende recolher informações com vista a **dados científicos** (*research data / scientific data*) que são gerados no âmbito da

Para o propósito deste estudo, considera-se *research data* todos os dados utilizados no decorrer da sua investigação na Universidade do Minho. Os dados podem ser primários ou secundários fornecidos por si ou pelo seu grupo de investigação ou dados secundários fornecidos por

O questionário demorará cerca de 10 minutos a ser respondido.

Agradecemos desde já a sua participação! Para esclarecimentos adicionais

Existem 53 perguntas



Este inquérito por questionário pretende recolher informações com vista a proporcionar um melhor conhecimento sobre os dados científicos (*research data*) que são gerados no âmbito da investigação produzida na Universidade do Minho. Para o propósito deste estudo, considera-se *research data* todos os dados que atualmente possui, que foram recolhidos ou utilizados no decorrer da sua investigação na Universidade do Minho. Os dados científicos podem ser dados primários recolhidos por si ou pelo seu grupo de investigação ou dados secundários fornecidos por terceiros. O questionário demorará cerca de 10 minutos a ser respondido. Agradecemos desde já a sua participação! Para esclarecimentos adicionais, por favor, contacte: operaco...

Seção A1: A. Identificação

A1. Unidade Orgânica de Ensino e de

Instituto de Letras e Ciências Humanas (ILCH)

Outro

A2. Categoria Profissional

Docente Investigador

Investigador

Técnico Superior

Bolseiro(a) de Investigação

Diagnóstico & política

Análise dos Resultados do Inquérito sobre  
Dados Científicos produzidos na  
Universidade do Minho

Relatório do Inquérito por Questionário

## Diagnóstico: 1) passo - Inquérito sobre Dados Científicos na Uminho **(destaques)**



Universidade do Minho  
Serviços de Documentação

**Possui algum plano para a gestão de dados resultantes da sua investigação**

(por exemplo, política de preservação de dados, política de gestão de registos, estratégia de eliminação de dados)?

**80% NÃO**

**Tem conhecimento do projeto-piloto de dados abertos da Comissão Europeia no âmbito do programa quadro H2020?**

**84% NÃO**

**16% SIM**

**Que tipo de serviços gostaria que a UMinho fornecesse para garantir o acesso aos dados?**

**73% sistema de backup**

**65% serviços de armazenamento e preservação**

**40% apoio técnico na elaboração de Planos de Gestão de dados**



## Diagnóstico: 2) passo – comunidades piloto

- **Identificação, observação e descrição de 3 a 5 casos para estudo:**
  - Trabalho baseado no DAF (Data Asset Framework) - <http://www.data-audit.eu>
  - Com utilização adicional do CARDIO - <http://cardio.dcc.ac.uk>
- Preparar a informação das comunidades seleccionadas de acordo do guião DAF.

Diagnóstico &  
política



# Aplicação para planos de gestão de dados



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<https://dmponline.dcc.ac.uk>

Serviços de  
suporte &  
informação

The screenshot shows the 'Organisation details' page in the DMP ONLINE system. The page has a navigation menu with 'Templates', 'Guidance', 'Organisation details', and 'Users'. The main content area is titled 'Organisation details' and includes a sub-header 'These are the basic details for your organisation.' Below this is a table with the following information:

|                   |  |
|-------------------|--|
| Name              | Universidade do Minho (Portugal)   |
| Abbreviation      | UMinho   |
| Description       | University of Minho (UMinho) is a public higher education institution, founded in 1973 and is one of the so-called "New Universities". Whilst UMinho is a young university, it is renowned for the competence and quality of its teachers and for the level of excellence in research as well as the wide range of undergraduate and graduate courses offered and the remarkable degree of interaction with other institutions. A student population of over 18000 together with more than 1100 teaching staff and almost 645 technical and administration staff make the University of Minho one of the biggest Portuguese universities. The courses and research projects have gained strong international recognition. UMinho is a research university, committed to the valorisation of knowledge: Research, Development and Innovation, and it is also focused on the socio-economic environment, with many successful partnerships in research, cultural and socio- economic development projects. |
| Website           | http://www.uminho.pt   |
| Organisation type | Institution  |
| Last updated      | 29-07-2014   |

An 'Edit' button is located at the bottom right of the table. At the bottom of the page, there are links for 'Contact us', 'Terms of use', and 'DMPonline previous version', along with the copyright notice '© 2004 - 2015 Digital Curation Centre (DCC)'. The DCC and Jisc logos are also present.



# Guias e materiais de (in)formação GDC



Universidade do Minho  
Serviços de Documentação

The image shows a composite of two web pages. The top page is a dashboard for 'Guias (in)formativos @ Bibliotecas UM (serviço experimental)'. It features a navigation bar with 'DASHBOARD', 'GUIDE SETTINGS', 'GUIDE LOOK & FEEL', 'ADD / EDIT PAGES', 'PREVIEW', and 'HELP'. The main content area includes a breadcrumb trail: 'Bibliotecas UM » Guias (in)formativos » Gestão de Dados Científicos'. Below this is a section for 'Gestão de Dados Científicos' with a search bar and a description: 'Guia sobre Gestão de Dados Científicos, com informação de apoio para planos de gestão de dados científicos e repositórios de dados abertos.' The dashboard also displays several widgets: 'Sobre Dados Científicos', 'Links úteis', 'Informações', and 'Informações mais', each with an 'Add / Edit Text' button and a 'Comentários (0) | Disable Box Comments' link. The bottom page is a 'Factsheet for Repository Managers' titled 'Open Access and Open Data in Horizon 2020 How can OpenAIRE help?'. It addresses the EC's Open Access (OA) mandate and provides instructions for literature and research data repository managers. It also includes a section on 'OpenAIRE Guidelines: what are they?' and a URL: <https://guidelines.openaire.eu>.

Serviços de  
suporte &  
informação



# Coleção no Repositório de dados Zenodo



Universidade do Minho  
Serviços de Documentação

[www.zenodo.org](http://www.zenodo.org)

The screenshot shows the Zenodo website interface. At the top, there is a blue header with the Zenodo logo and the tagline "Research. Shared.". Below the header, there is a navigation menu with options: Search, Communities, Browse, Upload, and Get started. There are also buttons for Sign In and Sign Up. A search bar is located below the navigation menu. The main content area is divided into several sections: "Datasets", "Recent Uploads", "Using GitHub?", and "New to Zenodo?". The "Recent Uploads" section lists two datasets: "Wyoming Oil and Gas Development Spatial Datasets" by Ivey, Alexander, and "Supporting data: The biogeographic origin of a radiation of trees in Madagascar: Implications for the assembly of a tropical forest biome". The "Using GitHub?" section includes a link to check out the GitHub integration. The "New to Zenodo?" section lists several features: Research. Shared., Citeable. Discoverable., Community Collections, and Funding.

Infraestruturas  
& normalização



# Dados ligados a artigos no RepositóriUM



Universidade do Minho  
Serviços de Documentação

RepositóriUM  [Página principal](#) [Percorrer por](#) [Ajuda](#) [português](#) [Entrar](#)

RepositóriUM  [Página principal](#) [Percorrer por](#) [Ajuda](#) [português](#) [Entrar](#)

Percorrer por tipos de documento dataset

Índice: [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)  
ou inserir as letras iniciais:  Enviar  
Ordenar por:  Em ordem:  Resultados/Página:  Autores/Registo:  Atualizar

Mostrar 1-20 de um total de 20 resultados.

| Data        | Título   | Autor(es)   | Tipo           | Acesso           |
|-------------|--|---|----------------|------------------|
| 2014        | Análise dos resultados do inquérito sobre dados científicos produzidos na Universidade do Minho [Dados]  | Rodrigues, Eloy  Boavista, Clara  Truta, Raquel  et al.                   | other; dataset | openAccess       |
| 2013        | A aplicação de um questionário sobre a qualidade do atendimento aos utilizadores das bibliotecas dos Serviços de Documentação da Universidade do Minho - dados de 2013 | Universidade do Minho. Serviços de Documentação                           | other; dataset | openAccess       |
| 2014        | A aplicação de um questionário sobre a qualidade do atendimento aos utilizadores das bibliotecas dos Serviços de Documentação da Universidade do Minho - dados de 2014 | Universidade do Minho. Serviços de Documentação                           | other; dataset | openAccess       |
| 2013        | A aplicação do LibQual aos utilizadores das bibliotecas dos Serviços de Documentação da Universidade do Minho - dados de 2013  | Universidade do Minho. Serviços de Documentação                           | other; dataset | openAccess       |
| 2014        | A aplicação do LibQual aos utilizadores das bibliotecas dos Serviços de Documentação da Universidade do Minho - dados de 2014  | Universidade do Minho. Serviços de Documentação                           | other; dataset | openAccess       |
| 2014        | Data from the manuscript [A role of supraspinal galanin in behavioural hyperalgesia in the rat]  | Amorim, Diana; David-Pereira, Ana; Marques, Patrícia, et al.              | other; dataset | openAccess       |
| 2013        | Datasets of a panoramic view on Metadata Application Profiles of the last decade   | Maíta, Mariana  | other; dataset | openAccess       |
| Set-2012    | Emprego e TSU - o impacto no emprego das alterações nas contribuições dos trabalhadores e das empresas [Dados]   | Correia, Luís Aguiar  Alexandre, Fernando  Bayão, Pedro, et al.           | other; dataset | openAccess       |
| 4-Mar-2013  | Grupos de discussão focalizados, ocorrido em 04, 06, 07 e 08 de Março de 2013 em Faro, Lisboa, Évora e Porto   | Castro, António   | other; dataset | openAccess       |
| 2-Mai-2011  | Interviewee A [RIPESS interviews]  | Maíta, Mariana  | other; dataset | openAccess       |
| 26-Abr-2011 | Interviewee B [RIPESS interviews]  | Maíta, Mariana  | other; dataset | openAccess       |
| 27-Abr-2011 | Interviewee C [RIPESS interviews]  | Maíta, Mariana  | other; dataset | openAccess       |
| 8-Abr-2011  | Interviewee D [RIPESS interviews]  | Maíta, Mariana  | other; dataset | openAccess       |
| 6-Abr-2011  | Interviewee E [RIPESS interviews]  | Maíta, Mariana  | other; dataset | openAccess       |
| 14-Abr-2011 | Interviewee F [RIPESS interviews]  | Maíta, Mariana  | other; dataset | openAccess       |
| Jun-2013    | Interviews to Dublin Core Application Profiles developers  | Maíta, Mariana  | other; dataset | openAccess       |
| 2012        | Os investigadores em Portugal e a sua relação com o Acesso Aberto à produção científica [Dados]  | Rodrigues, Eloy  Carvalho, José  Boavista, Clara  Parente, et al.         | other; dataset | openAccess       |
| 2008        | Minuta (SINGULAR) de revisão da Folha 1C - Caminha. Carta geológica de Portugal na escala 1:50 000   | Gomes, C. Leal  | other; dataset | openAccess       |
| 2010        | Salvamento de Bracara Augusta - quarteirão dos CTT - Avenida da Liberdade (BRA 08-09 CTT)  | Martins, Manuel  Fontes, Luís  Fernando Oliveira  Braga, Cristina, et al. | other; dataset | restrictedAccess |
| 2015        | Survey on the use of Application Profiles and Metadata Schemes [Dados]   | Andrade, Morgana; Baptista, Ana Alice                                     | other; dataset | openAccess       |

Mostrar 1-20 de um total de 20 resultados.

Universidade do Minho Instituto de Investigação em Ciências da Vida e da Saúde ICVS - Dados científicos / Research data

Utilize este identificador para referenciar este registo: <http://hdl.handle.net/1822/30587>

**Título:** Data from the manuscript [A role of supraspinal galanin in behavioural hyperalgesia in the rat]

**Autor:** Amorim, Diana  
David-Pereira, Ana  
Marques, Patrícia  
Puga, Sónia  
Rebello, Patrícia  
Costa, Patrício Soares   
Pertovaara, Antti  
Almeida, Armando   
Pinto-Ribeiro, Filipa

**Palavras-chave:** experimental monoarthritis  
pronociception, galanin  
galanin receptor type-1  
dorsomedial hypothalamic nucleus  
rostral ventromedial medulla

**Data:** 2014

**Resumo:** In chronic pain disorders, galanin (GAL) is able to either facilitate or inhibit nociception in the spinal cord but the contribution of GAL to pain is mostly unknown. The dorsomedial nucleus of the hypothalamus (DMH) is rich in galanin receptors (GALR) and is involved in pain processing. We evaluated the contribution of supraspinal GAL to behavioural hyperalgesia in experimental monoarthritis. In Wistar-Kyoto mice, kaolin/carrageenan-induced monoarthritis (ARTH), paw-withdrawal latency (PWL) was assessed before and after DMH administration of a non-specific GALR antagonist (M40), a specific GALR1 agonist (M617) and a specific GALR2 antagonist (M871). Additionally, the analysis of c-Fos expression after GAL injection in the DMH was used to investigate the potential involvement of brainstem pain control centres. Finally, electrophysiological recordings were performed to evaluate whether pronociceptive On- or antinociceptive Off-like cells in the rostral ventromedial medulla (RVM) relay the effect of GAL. Exogenous GAL in the DMH decreased PWL in ARTH and SHAM animals, an effect that was mimicked by a GALR1 agonist (M617). In SHAM animals, an unselective GALR antagonist (M40) increased PWL, while a GALR2 antagonist (M871) decreased PWL. M40 or M871 failed to influence PWL in ARTH animals. Exogenous GAL increased c-Fos expression in the RVM and dorsal raphe nucleus (DRN), with effects being more prominent in SHAM than ARTH animals. Exogenous GAL failed to influence activity of RVM On- or Off-like cells of SHAM and ARTH animals. Overall, exogenous GAL in the DMH had a pronociceptive effect that is mediated by GALR1 in healthy and arthritic animals and is associated with alterations of c-Fos expression in RVM and DRN that are serotonergic brainstem nuclei known to be involved in the regulation of pain.

**Tipo:** other  
dataset

**Descrição:** Manuscript: "A role of supraspinal galanin in behavioural hyperalgesia in the rat" – by Amorim et al, PLoS One. Available at: <http://hdl.handle.net/1822/32480>

**URI:** <http://hdl.handle.net/1822/30587>

**Acesso:** openAccess

**Aparece em:** ICVS - Dados científicos / Research data

Infraestruturas  
& normalização



Comentários | Estatísticas do RepositóriUM  
Universidade do Minho Copyright © 2014



# Adquirir competências e formação na GDC



Universidade do Minho  
Serviços de Documentação



Competências  
& recursos  
humanos

**MANTRA**  
Research Data Management Training

Home About Acknowledgements **DIY Training Kit for Librarians** Feedback Contact Us

### Do-It-Yourself Research Data Management Training Kit for Librarians

Provided by EDINA and Data Library, University of Edinburgh in association with the UK Data Archive, Digital Curation Centre (DCC), and Distributed Data Curation Center at the Purdue University Libraries

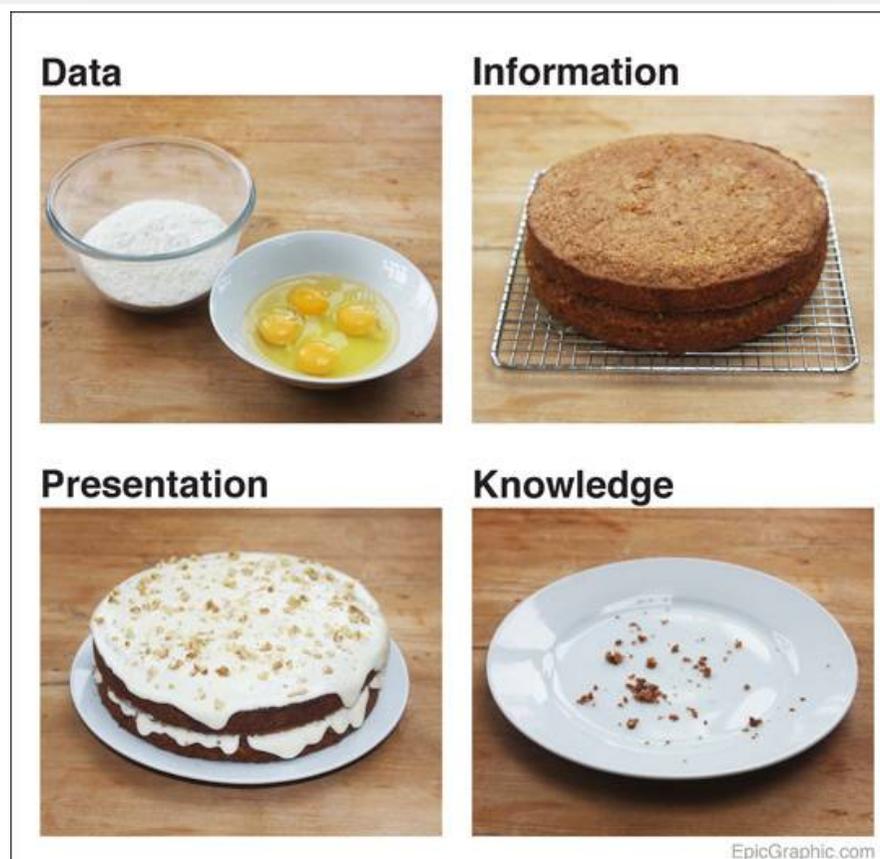
**Page contents**

- [Introduction](#)
- [Training kit contents](#)
- [Downloadable contents by session](#)
- [Independent study: Data Curation Profiles](#)
- [For further study and engagement](#)
- [How to Reuse and attribute this content](#)





## Os Conjuntos de Dados Científicos de HOJE são as coleções das Bibliotecas de AMANHÃ...



*Porque boa investigação necessita de bons dados*

## A ter em atenção...



Discutir barreiras e fragilidades.



Identificar os principais parceiros para embarcar nesta aventura.



Considerar a cultura institucional e o ambiente interno.

# LERU ROADMAP FOR RESEARCH DATA

LERU RESEARCH DATA WORKING GROUP

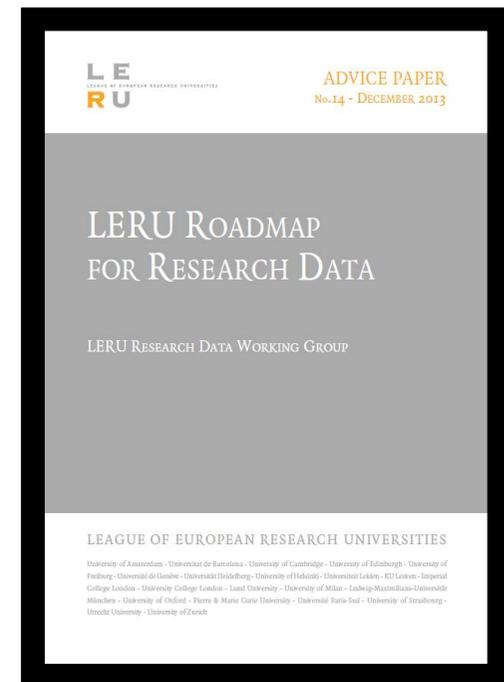
## LEAGUE OF EUROPEAN RESEARCH UNIVERSITIES

University of Amsterdam - Universitat de Barcelona - University of Cambridge - University of Edinburgh - University of Freiburg - Université de Genève - Universität Heidelberg - University of Helsinki - Universiteit Leiden - KU Leuven - Imperial College London - University College London - Lund University - University of Milan - Ludwig-Maximilians-Universität München - University of Oxford - Pierre & Marie Curie University - Université Paris-Sud - University of Strasbourg - Utrecht University - University of Zurich

# LERU roadmap

**Dados Científicos – do ponto de vista da instituição com a responsabilidade de gerir os dados, inclui:**

- **Todos os dados produzidos e recolhidos por investigadores no decurso do seu trabalho de investigação e para a qual a instituição tem a responsabilidade de curadoria.**
- **Dados de terceiros que podem ter sido originados dentro da instituição ou externamente.**



# LERU roadmap: conteúdo

---

1. Policy and Leadership
2. Advocacy
3. Selection and Collection, Curation, Description, Citation, Legal Issues
4. Research Data Infrastructure
5. Costs
6. Roles, Responsibilities and Skills
7. Recommendations



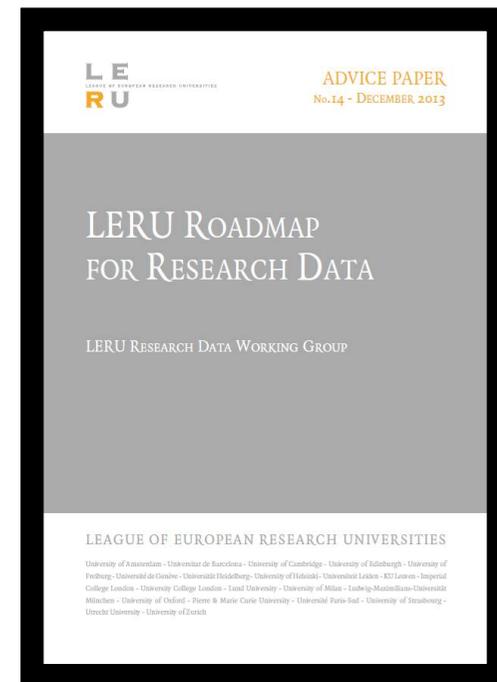
# LERU roadmap: recomendações

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Individual LERU members should explore the formation of an **RDM Steering Group** or similar which brings together the range of critical institutional stakeholders and provides a forum for planning and operational oversight.

Each LERU member should consider developing an **institutional Roadmap for Research Data** (if they have not done so already) which sets out the strategic objectives, tasks and actions required for compliance with research funder directives.

Every LERU member should **develop and promulgate an institutional data policy** which clarifies institutional roles and responsibilities for RDM to all stakeholders in the RDM process.





About LEARN ▾ Partners ▾ Dissemination ▾ Workshops ▾ (

## IS YOUR INSTITUTION READY FOR MANAGING RESEARCH DATA?

Home / Is your institution ready for managing research data?

By Ignasi Labastida 25/02/2016

**Managing research data** has become one of the contemporary challenges for research institutions. More and more funders and publishers are asking researchers to share the data they gather, compile or create during the course of their research. However it is not simply an issue of sharing or publishing as the matter goes further than that. Research institutions need to provide **support for the complete research cycle**, and therefore they also need to analyse what researchers require to manage their data from creation or compilation to archive and preservation.

One of the aims of the **LEARN Project** is to create a **toolkit** to help research institutions to develop their strategy on **managing research data**. However before making a start on the toolkit, it is worth taking a look at the current situation. To perform this initial analysis, the LEARN Project has compiled a **survey** as a **self-assessment tool** based on the issues posed to institutions by the **LERU Roadmap for Research Data** (published at the end of 2013).

The survey has thirteen questions addressing the main elements to be taken into account when **developi**



### SURVEY: Is your institution ready for managing research data?

The LEARN project has compiled the following survey as a self-assessment tool to assist institutions discover how ready they are for managing research data. The survey is based on the issues posed to institutions by the LERU Roadmap for Research Data published at the end of 2013, and available at: [http://www.learn-rdm.eu/material/leru\\_roadmap\\_for\\_research\\_data](http://www.learn-rdm.eu/material/leru_roadmap_for_research_data)

The survey has thirteen questions addressing the main elements to be taken into account in developing an institutional strategy for research data management. Each question has three possible answers representing green, yellow or red light. The more 'green light' responses recorded, the readier an institution probably is for managing its research data. We encourage you to complete the questionnaire online which is available at: <http://www.learn-rdm.eu>

#### 1. Policy

My institution has a policy on research data  
My institution is working in a policy on research data  
My institution has no policy regarding research data

#### 2. Leadership

My institution has a steering committee on research data  
My institution is working in setting up a working group to develop services and policies on research data  
There is no dedicated group on research data at my institution

#### 3. Roles

My institution has established new roles to steward the management of research data  
Some staff are shifting part of their work to involve the management of research data  
There is no one dedicated to research data

#### 4. Information (services)

My institution has an information point/helpdesk/webpages on research data management  
There is someone at/in the university library/research office who can give advice on research data management to researchers  
No service at my institution provides clear information on research data management

#### 5. Dissemination (awareness)

My institution has created some materials on the management of research data  
There are some links with information on research data on the library/research office website  
Researchers need to look outside my institution for information on the management of research data

#### 6. Infrastructure

My institution provides an infrastructure to manage research data through the complete research cycle  
My institution provides some services for managing data but not through the complete research cycle  
Researchers need to use external facilities to manage their data



# Políticas de financiadores para a gestão de dados e os dados abertos

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3



# Porquê Open Data?

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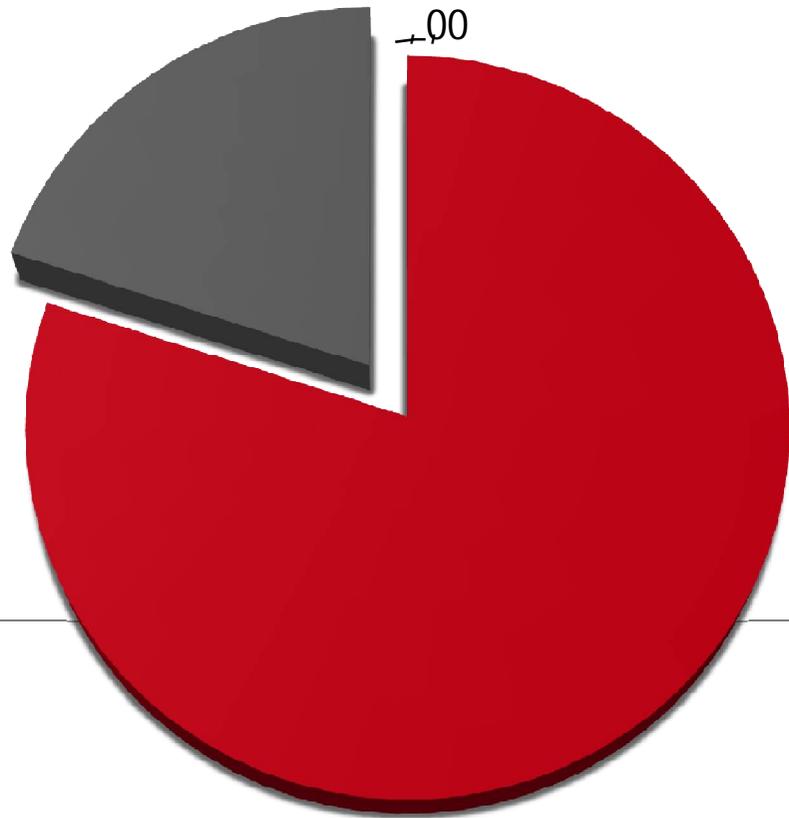
- Economizar tempo**
- Permitir reprodutibilidade**
- Vantagem da citação**
- Novos usos e aplicações**
- Preservar os dados para investigações futuras**
- Confere maior robustez ao registo**

**Funders say you should must!**

"CARROTS" [HTTPS://WWW.FLICKR.COM/PHOTOS/PLUSHOFF/](https://www.flickr.com/photos/plushoff/) CC-BY 2.0

"DON'T MAKE ME USE THIS" [HTTPS://WWW.FLICKR.COM/PHOTOS/TRINITY/](https://www.flickr.com/photos/trinity/) CC—BY-SA 2.0"





80%  
of research is  
publicly  
funded

Source: "Academic Publishing: Survey of funders supports the benign Open Access outcome priced into shares, HSBC Global Research," February 11, 2013:  
<https://www.research.hsbc.com/midas/Res/RDV?ao=20&key=RxAfBnG1P&n=360010.PDF>

WWW.SPARC.ORG

# Requisitos dos financiadores para Open data

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Europe



UK



USA – NSF, NEH, NIH

... global

Policy paper

## G8 Open Data Charter and Technical Annex

Published 18 June 2013

### Contents

1. Principle 1: Open Data by Default
2. Principle 2: Quality and Quantity
3. Principle 3: Usable by All
4. Principle 4: Releasing Data for Improved Governance
5. Principle 5: Releasing Data for Innovation
6. Technical annex

# The mandates are coming...

| <i>Funder</i> | <i>Policy Coverage</i>   | <i>Policy Coverage</i> | <i>Policy Stipulations</i> | <i>Policy Stipulations</i>  | <i>Policy Stipulations</i> | <i>Policy Stipulations</i> |
|---------------|--------------------------|------------------------|----------------------------|---|----------------------------|----------------------------|
| <b>Funder</b> | <b>Published Outputs</b> | <b>Data</b>            | <b>Time Limits</b>         | <b>Time Frame</b>   | <b>DMP</b>                 | <b>Access/ Sharing</b>     |
| AHRQ          | full                     | full                   | full                       | Within 12 months (A), with article publication (D)  | full                       | full                       |
| ASPR          | full                     | full                   | full                       | Within 12 months (A), with article publication/within 30 months of collection (D)                     | full                       | full                       |
| CDC           | full                     | full                   | full                       | Within 12 months (A), with article publication/within 30 months of collection (D)                     | full                       | full                       |
| DOD           | full                     | full                   | full                       | Within 12 months (A), within a reasonable time (D)  | full                       | full                       |
| DOE           | full                     | full                   | full                       | Within 12 months (A), with article publication (D)  | full                       | full                       |
| DOT           | none                     | TBD                    | none                       |   |                            |                            |
| FDA           | full                     | full                   | full                       | Within 12 months (A), with article publication (D)  | full                       | full                       |
| NASA          | full                     | full                   | full                       | Within 12 months (A) at the time of publication or w/i reasonable time period after publication (D)*  | full                       | full                       |
| NIH           | full                     | full                   | full                       | Within 12 months (A), at the time of article publication (appropriate timelines being explored) (D)   | full                       | full                       |
| NIST          | partial                  | full                   | partial                    | Within 12 months (A), with article publication, for supporting data (D)                               | full                       | full                       |
| NOAA          | full                     | full                   | full                       | Within 12 months (A), with article publication, for supporting data, or within 1 yr of collection (D) | full                       | full                       |
| NSF           | Full                     | Full                   |                            | Within 12 months (A), "exploring" at time of article publication (D)                                  | full                       | full                       |

Whitmire, Amanda; Briney, Kristin; Nurnberger, Amy; Henderson, Margaret; Atwood, Thea; Janz, Margaret; Kozlowski, Wendy; Lake, Sherry; Vandegrift, Micah; Zilinski, Lisa (2015): A table summarizing the Federal public access policies resulting from the US Office of Science and Technology Policy memorandum of February 2013. figshare. <http://dx.doi.org/10.6084/m9.figshare.1372041>. Retrieved [May 14th 2015]

# Requisitos dos financiadores

| Research Funders | Policy Coverage   |      | Policy Stipulations |           |                |                    |            | Support Provided |            |             |       |
|------------------|-------------------|------|---------------------|-----------|----------------|--------------------|------------|------------------|------------|-------------|-------|
|                  | Published outputs | Data | Time limits         | Data plan | Access/sharing | Long-term curation | Monitoring | Guidance         | Repository | Data centre | Costs |
| AHRC             | ●                 | ●    | ●                   | ●         | ●              | ◐                  | ○          | ●                | ○          | ◐           | ○     |
| BBSRC            | ●                 | ●    | ●                   | ●         | ●              | ●                  | ●          | ●                | ●          | ◐           | ●     |
| CRUK             | ●                 | ●    | ●                   | ●         | ●              | ●                  | ●          | ◐                | ●          | ○           | ○     |
| EPSRC            | ●                 | ●    | ●                   | ◐         | ●              | ●                  | ●          | ◐                | ○          | ○           | ●     |
| ESRC             | ●                 | ●    | ●                   | ●         | ●              | ●                  | ●          | ●                | ●          | ●           | ◐     |
| MRC              | ●                 | ●    | ●                   | ●         | ●              | ●                  | ○          | ◐                | ●          | ○           | ◐     |
| NERC             | ●                 | ●    | ●                   | ●         | ●              | ●                  | ●          | ●                | ●          | ●           | ◐     |
| STFC             | ●                 | ●    | ●                   | ●         | ●              | ●                  | ●          | ◐                | ●          | ◐           | ○     |
| Wellcome Trust   | ●                 | ●    | ●                   | ●         | ●              | ●                  | ●          | ●                | ●          | ◐           | ●     |

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

## **Política sobre a Disponibilização de Dados e outros Resultados de Projetos de I&D Financiados Pela FCT**

(adotada em 5 de maio de 2014)

### **1. Introdução**

Tem sido reconhecido em várias instâncias que a disponibilização aberta dos resultados da investigação realizada com financiamento público tem significativos benefícios sociais e económicos. Em sintonia com o que vem sendo crescentemente adotado por agências públicas de financiamento de I&D de outros países e com as recomendações da Comissão Europeia de 17 de Julho de 2012<sup>1</sup>, a FCT – Fundação para a Ciência e a Tecnologia, IP – adota a presente política sobre a disponibilização de resultados de Investigação e Desenvolvimento (I&D) que financia.

# Recomendações aos beneficiários FCT

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**Nas candidaturas a financiamento apresentadas à FCT, sugere-se que os candidatos incluam um plano de gestão de dados, contendo:**

- 1) descrições de tipos de dados, amostras, coleções, *software*, modelos, materiais curriculares e outros materiais que se prevê venham a ser produzidos no âmbito das atividades financiadas;
- 2) normas a serem usadas para formatos e conteúdo de dados e metadados (nos casos em que estas normas não existam ou sejam julgadas inapropriadas tal deve ser documentado juntamente com as soluções propostas);
- 3) políticas de acesso e partilha incluindo disposições de proteção apropriada de privacidade, confidencialidade, segurança, propriedade intelectual e outros direitos ou requisitos;
- 4) políticas e disposições para reutilização, redistribuição e produção de subprodutos;
- 5) planos para arquivo de dados, amostras, *software*, modelos e outros materiais produzidos.

# Políticas dos editores para os dados

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nature publishing group

*"[...] authors are **required** to make materials, data and associated protocols promptly available to readers without undue qualifications."*



*"PLOS journals **require** authors to make all data underlying the findings described in their manuscript fully available without restriction, with rare exception."*



*"Please find your appropriate data repository in the Registry for Research Data Repositories **re3data.org**."*

# O projeto piloto de dados abertos da Comissão Europeia

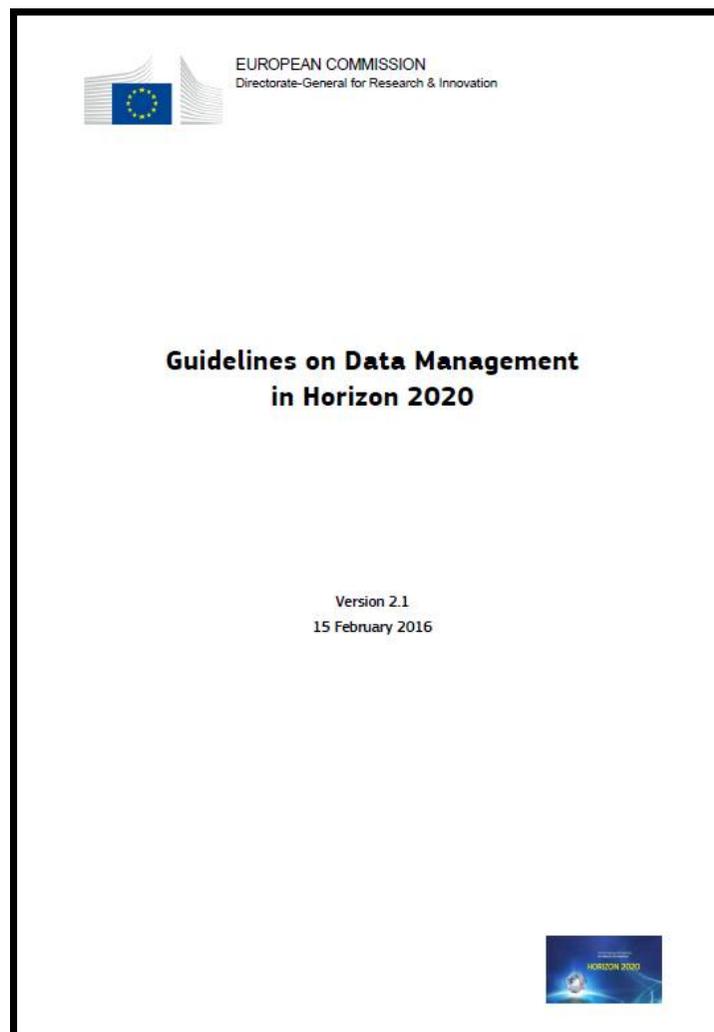
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# EC Guidelines on Open Access and Research Data in Horizon 2020

Documentos com orientações para os beneficiários dos projetos que integram o piloto de dados

[www.openaire.eu/opendatapilot](http://www.openaire.eu/opendatapilot)



## Guidelines on Open Access to Scientific Publications and Research Data in Horizon 2020

Version 2.1  
15 February 2016



Guidelines on Data Management  
in Horizon 2020

Version 1.0  
11 December 2013

[http://ec.europa.eu/research/participants/data/ref/h2020/grants\\_manual/hi/oa\\_pilot/h2020-hi-oa-data-mgt\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf)

# Piloto de dados abertos no H2020

Questões chave:

- ✓ Quais as áreas científicas abrangidas pelo piloto?
- ✓ Qual o objetivo e âmbito do piloto?
- ✓ Que dados são abrangidos?
- ✓ Quais são os requisitos?
- ✓ O que precisamos saber sobre gestão de dados?



# Piloto de dados abertos no H2020 – ÁREAS

## Áreas científicas abrangidas pelo projeto-piloto 2016-2017:

- Future and Emerging Technologies
- Research infrastructures – (**new**: coverage of the whole area)
- Leadership in enabling and industrial technologies – Information and Communication Technologies
- Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology: ‘nanosafety’ and ‘modelling’ topics (**new**)
- Societal Challenge: Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy - selected topics as specified in the work programme (**new**)
- Societal Challenge: Climate Action, Environment, Resource Efficiency and Raw materials – except raw materials
- Societal Challenge: Europe in a changing world – inclusive, innovative and reflective Societies
- Science with and for Society
- Cross-cutting activities - focus areas – part Smart and Sustainable Cities (**moved from Energy WP**)



# Piloto de dados abertos no H2020 – OBJETIVO

O Projeto-piloto que visa **melhorar e maximizar o acesso e a reutilização dos dados** de investigação gerados por projetos financiados pela CE.



**EC:**

**information already paid for by the public should not be paid for again.**

**Open data is data that is free to access and reuse**

# Piloto de dados abertos no H2020 – PRINCÍPIOS



**Discoverable**



**Accessible**



**Assessable and  
intelligible**



**Usable beyond the  
original purpose  
for which it was  
collected**

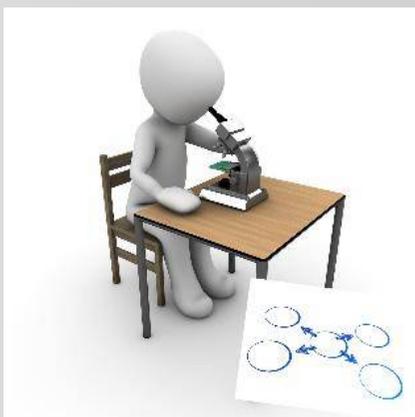


**Interoperable to  
specific quality  
standards**

# Piloto de dados abertos no H2020 – QUE DADOS?



**Dados para validar os resultados apresentados em publicações científicas.**



**Outros dados, conforme especificado no plano de gestão de dados.**

# Piloto de dados abertos no H2020 – ÂMBITO

Aos beneficiários é requerido o depósito:

- **Dados**, incluindo metadados associados, necessários para **validar os resultados** apresentados em publicações científicas, logo que possível;
- **Outros dados**, incluindo metadados associados, conforme especificado e dentro dos prazos estabelecidos no **plano de gestão de dados**.

Não se aplica a todos os dados (os investigadores definem em função do seu projeto), havendo ainda exceções.

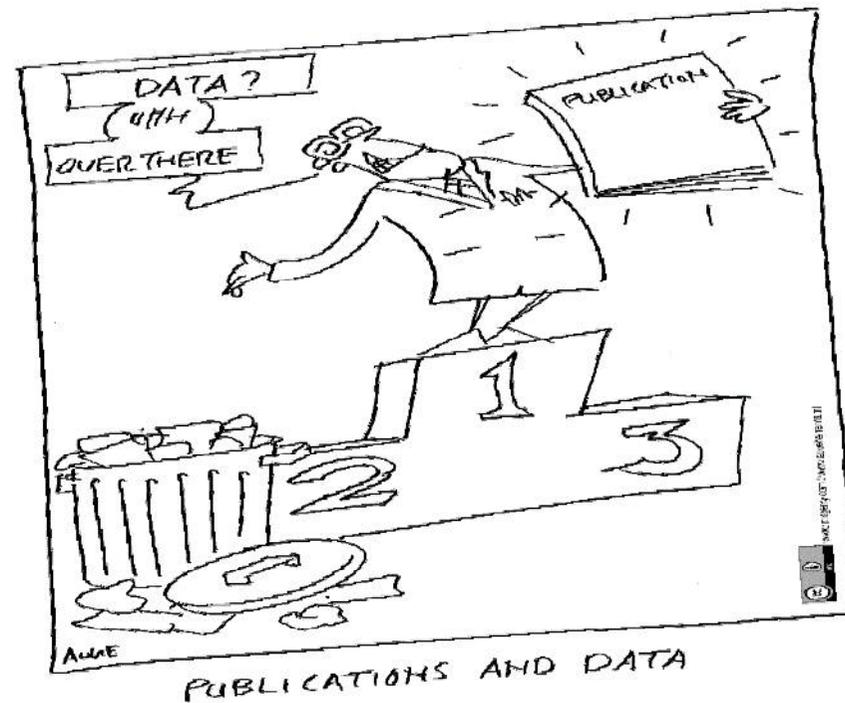


# Piloto de dados abertos no H2020 – REQUISITOS

1. Desenvolver (e atualizar) um Plano de Gestão de Dados.
2. Depositar num repositório de dados adequado.
3. Tornar possível a terceiros o acesso, a prospeção, a exploração, a reprodução e a disseminação dos dados – de forma gratuita.
4. Fornecer informações sobre as ferramentas e os instrumentos necessários para validar os resultados (ou fornecer as ferramentas).

# Abordagem da Comissão Europeia:

*AS OPEN AS POSSIBLE,  
AS CLOSED AS NEEDED*



# Opting out / opting in

- ✓ É possível optar por sair, quando devidamente justificado;



- ✓ e optar por participar voluntariamente é igualmente possível.

# Piloto de dados abertos no H2020 – OPT OUT

Os projetos podem optar por sair do piloto, na fase de proposta ou durante a execução (devidamente justificado no plano de projeto), com base em:

- **Se o projeto não gerar/recolher dados.**
- **Em caso de conflito com a obrigação de proteção dos resultados (se é esperado que os resultados sejam comercialmente ou industrialmente explorados).**
- **Se a realização do objetivo principal do projeto (ação) ficar comprometido com a disponibilização aberta dos dados.**
- **Em caso de conflito com as obrigações de confidencialidade.**
- **Em caso de conflito com as obrigações nacionais de segurança.**
- **Em caso de conflito com as regras em matéria de proteção de dados pessoais.**

# REQUISITOS NA PRÁTICA (simplificados)



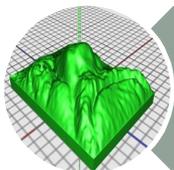
Criar um plano de gestão dos dados



Assegurar o depósito num repositório



Associar licenças CC



Providenciar info de ferramentas

O foco deve ser o **planeamento** >> para a disponibilização dos dados, facilitando o depósito e a licença para permitir a reutilização.

# 3º ENCONTRO DAS **bibliotecas** de ensino superior

Porto | 2016  
2 e 3 de junho



2 de junho | 16h30 – 18h30 | Faculdade de Direito – Sala 126 | WORKSHOP: 4

## Gestão de Dados Científicos – PROGRAMA:

1. Eixos de intervenção das instituições no domínio da gestão de dados científicos
2. Planos de ação e estratégias para as bibliotecas na gestão dos dados científicos
3. Políticas de financiadores para a gestão de dados e os dados abertos
4. Serviços, infraestruturas e plataformas para a gestão de dados científicos
  1. Planos de Gestão de Dados
  2. Repositórios de Dados e sistemas para a curadoria de dados
  3. Recursos para formação de profissionais de bibliotecas e informação.
5. Programa de formação para a gestão de dados científicos de estudantes de doutoramento e investigadores

# PLANOS DE GESTÃO DE DADOS: EXEMPLO

## 4.1



# Propósito do Plano de Gestão de dados:

- Define o plano para a criação e gestão dos dados (ex. que normas vão ser usadas), e especifica que dados vão ser abertos. Planos para partilha e preservação deverão ser referidos também.
- Disponibilizar uma análise dos principais elementos da política de gestão de dados que será usada pelos beneficiários relativamente a todos os conjuntos de dados (datasets) que serão gerados pelo projeto.
- **A CE vê os planos como documentos “vivos” – deverão ser regularmente atualizados.**

# Tópicos do Plano de Gestão de Dados:

## Data set reference and name

- Identificação do conjunto de dados..

## Data set description

- Descrição com origem, natureza, tamanho, público. Informação de eventuais dados similares, possibilidades de integração e reutilização.

## Standards and metadata

- Referencia às normas de metadados disciplinares a usar para descrição, ou como é que vão ser descritos ou criados os metadados.

## Data sharing

- Descrição de como os dados vão ser partilhados, incluindo procedimentos de acesso, períodos de embargo, indicando eventuais ferramentas necessárias para reutilização dos dados. Incluir informação das limitações de acesso.

## Archiving and preservation (including storage and backup)

- Descrição de procedimento de armazenamento e preservação, indicando quando tempo os dados devem ser preservados.

# Devenvolvimento do Plano de Gestão de Dados



➤ **Para a CE não é um documento fechado – deverá evoluir e ir ganhando precisão.**

- Deverá ser apresentado nos primeiros seis meses do projeto.
- Deverá ser atualizado e apresentado com novas versões sempre que as mudanças o justifiquem, mas no mínimo 2 x (mid-term & final review).

➤ **A CE disponibiliza 2 templates** (anexo 1 e 2).

- A CE não solicita plano no momento entrega da proposta – portanto, o plano não é parte do processo de avaliação da candidatura).
- No entanto, todas as propostas apresentadas no âmbito das ações "Research and Innovation actions" e "Innovation actions" incluem uma secção "research data" nos critérios de avaliação do impacto.

# DMPonline



- Ferramenta web para ajudar os investigadores a elaborar o seu plano de gestão de dados.
  - Disponibilizada de forma gratuita pelo DCC
  - Incluiu já um template para o Horizonte 2020

A screenshot of the DMPonline web interface. The page title is 'My plan (Horizon 2020 DMP)'. There are navigation tabs: 'Plan details', 'Initial DMP', 'Mid-term Review DMP', 'Final review DMP', 'Share', and 'Export'. A progress indicator shows 'No questions have been answered'. The main content area is titled 'For each data set specify the following: (5 questions, 0 answered)'. It contains two sections: 'Data set reference and name' with a text input field and a 'Save' button; and 'Data set description' with a rich text editor. Both sections include 'EC Guidance' boxes with instructions on what to provide.

<https://dmponline.dcc.ac.uk>

## Create a new plan

Please select from the following drop-downs so we can determine what questions and guidance should be displayed in your plan.

If you aren't responding to specific requirements from a funder or an institution, [select here to write a generic DMP](#) based on the most common themes.

If applying for funding, select your research funder.

Otherwise leave blank.

2

Funder

- Arts & Humanities Research Council
- Biotechnology and Biological Sciences Research Council
- Cancer Research UK
- Economic and Social Research Council
- Engineering and Physical Sciences Research Council
- European Commission (Horizon 2020)
- Medical Research Council

[Contact us](#) | [Terms of use](#) | [DMPonline previous version](#)

© 2004 - 2015 Digital Curation Centre (DCC)



## Create a new plan

Please select from the following drop-downs so we can determine what questions and guidance should be displayed in your plan.

If you aren't responding to specific requirements from a funder or an institution, [select here to write a generic DMP](#) based on the most common themes.

If applying for funding, select your research funder.

Otherwise leave blank.

European Commission (Horizon 2020)

[Not applicable/not listed.](#)

To see institutional questions and/or guidance, select your organisation.

You may leave blank or select a different organisation to your own.

3

Organisation

- University of Durham
- ELIXIR
- Edge Hill University
- Edinburgh Napier University
- University of Edinburgh
- University of Essex
- University of Exeter

Tick to select any other sources of guidance you wish to see.

DCC guidance

Create plan

# Create a new plan

Please select from the following drop-downs so we can determine what questions and guidance should be displayed in your plan.

If you aren't responding to specific requirements from a funder or an institution, [select here to write a generic DMP](#) based on the most common requirements.

**If applying for funding, select your research funder.**

Otherwise leave blank.

European Commission

**To see institutional questions and/or guidance, select your organisation.**

You may leave blank or select a different organisation to your own.

ELIXIR

**Tick to select any other sources of guidance you wish to see.**

DCC guidance

4

Create plan

## Test DMP for OpenAire purposes

Plan details

Initial DMP

Mid-term Review DMP

Final review DMP

Share

Export

This page gives you an overview of your plan. It tells what your plan is based on and gives an overview of the questions that you will be asked.

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Plan name                         | Test DMP for OpenAire purposes   |
| ID                                | TEST_data_set_with_ID_2468       |
| Grant number                      | -                                |
| Principal Investigator/Researcher | M Grootveld - OpenAIRE supporter |
| Plan data contact                 | test                             |
| Description                       | test                             |

Self-assigned ID

### This plan is based on:

|        |                                    |
|--------|------------------------------------|
| Funder | European Commission (Horizon 2020) |
|--------|------------------------------------|

In Horizon 2020 a limited pilot action on open access to research data will be implemented. Projects participating in the Open Research Data Pilot will be required to specify what data will be open. Other projects are invited to submit a Data Management Plan if relevant for their planned research.

The DMP is not a fixed document; it evolves and gains more precision and substance during the lifespan of the project. The first version of the DMP is expected to be elaborated. Further versions of the DMP can be delivered at later stages of the project. The DMP would need to be updated at least by the mid-term and final review to reflect the consortium since not all data or potential uses are clear from the start.

The templates provided for each phase are based on the annexes provided in the [Guidelines on Data Management in Horizon 2020](#) (v.1.0, 11 December 2013).

"The DMP is not a fixed document..."

## Initial DMP

An initial DMP should be completed within 6 months of starting the project.

The purpose of the Data Management Plan (DMP) is to provide an analysis of the main elements of the data management policy that will be used by the applicants with regard to all the datasets project.

The DMP is not a fixed document, but evolves during the lifespan of the project.

The DMP should address the points below on a dataset by dataset basis and should reflect the current status of reflection within the consortium about the data that will be produced.

| Sections                                 | Questions  |
|--|--|
| For each data set specify the following: | <ul style="list-style-type: none"><li>- Data set reference and name</li><li>- Data set description</li><li>- Standards and metadata</li><li>- Data sharing</li><li>- Archiving and preservation (including storage and backup)</li></ul> |

## Mid-term Review DMP

## Final review DMP

### Briefly specify

- how data will be captured/created
- how it will be documented
- according to what standards
- who will be able to access it
- where it will be stored
- how it will be backed up, and
- where and how it will be shared and preserved long-term

# Test DMP for OpenAire purposes

3/5 questions answered

approx. 15% of available space used

Plan details **Initial DMP** Mid-term Review DMP Final review DMP Share Export

For each data set specify the following: (5 questions, 3 answered)

The DMP should address the points below on a dataset by dataset basis and should reflect the current status of reflection within the consortium about the data that will be produced.

Data set reference and name

TEST\_data\_set\_with\_ID\_2468

ID of the dataset,  
assigned by PI

Save

Answered 7 months ago by M Grootveld

Data set description

**B** *I*

The data will consist of:

- 30 audiovisual files in MPEG4 format, each a one hour interview
- 30 transcriptions in .TXT

PI's answer

Save

Guidance Share note

EC Guidance

Guidance Share note

EC Guidance

Description of the data that will be generated or collected, its origin (or where it was collected), nature and scale and to whom it could be useful, and what underpins a scientific publication. Information on the existence (or non-existence) of the data and the possibilities for integration and reuse.

EC guidance

Initial DMP

5

# Template mid-term review DMP

Test DMP for OpenAire purposes 1/5  
approx. 20% of available

| Plan details   | Initial DMP | Mid-term Review DMP | Final review DMP | Share | Export |
|--|-------------|---------------------|------------------|-------|--------|
| <b>Scientific research data should be easily:</b> 1. Discoverable (1 question, 1 answered) |             |                     |                  |       |        |
| 2. Accessible (1 question, 0 answered)   |             |                     |                  |       |        |
| 3. Assessable and intelligible (1 question, 0 answered)                                    |             |                     |                  |       |        |
| 4. Usable beyond the original purpose for which it was collected (1 question, 0 answered)  |             |                     |                  |       |        |
| 5. Interoperable to specific quality standards (1 question, 0 answered)                    |             |                     |                  |       |        |

Broad notions: the data and associated metadata should be managed in a way that allows for future reuse

# Test DMP for OpenAire purposes

Plan details

Initial DMP

Mid-term Review DMP

Final review DMP

Share

Export

From here you can download your plan in various formats. This may be useful if you need to submit your plan as part of a grant application. Select what format you wish to use and click to 'Export'.

## Initial DMP

Format

pdf

Export

csv  
html  
json  
pdf  
text  
xml  
docx

(adding values)

## Mid-term Review DMP

## Final review DMP

6

Several export formats


 Search in 13,870,949 publications 16,832 datasets from 6,126 repositories and OA journals

[www.openaire.eu](http://www.openaire.eu)

| All <span>↓</span> Search keywords <span>SEARCH</span>   |                                    |                             |                             |
|--|------------------------------------|-----------------------------|-----------------------------|
| Publications <span>Research Data</span> <span>Projects</span> <span>People</span> <span>Organizations</span> <span>Data Providers</span> |                                    |                             |                             |
| FUNDER   | ACCESS MODE                        | PUBLICATION YEAR            | DOCUMENT TYPE               |
| European Commission (EC) (171824)  | Open Access (13490383)             | 2013 (1269958)              | Article (9888681)           |
| Wellcome Trust (WT) (12030)  | Restricted (264590)                | 2014 (1243139)              | Unknown (1056760)           |
| Fundação para a Ciênc... (11845)   | Closed Access (106946)             | 2012 (1195377)              | Preprint (525988)           |
| Australian Research C... (6536)  | not available (4652)               | 2011 (1098806)              | Doctoral thesis (491586)    |
| NHMRC (4411)   | Embargo (4378)                     | 2010 (923362)               | Other (415785)              |
|  |                                    | <a href="#">View more</a> ↗ | <a href="#">View more</a> ↗ |
| DOCUMENT LANGUAGE  | DATA PROVIDER                      | COMMUNITIES                 |                             |
| English (7697596)  | Europe PubMed Central (3444447)    | EGI (4631)                  |                             |
| Undetermined (1835655)   | DOAJ-Articles (2144583)            | FET (3413)                  |                             |
| Russian (1026996)  | arXiv.org e-Print Arc... (1105475) |                             |                             |
| Spanish; Castilian (472272)  | Research Papers in Ec... (978304)  |                             |                             |
| French (443615)  | CyberLeninka - Russia... (943295)  |                             |                             |
| <a href="#">View more</a> ↗  | <a href="#">View more</a> ↗        |                             |                             |



# Open Research Data Pilot

Informação útil disponibilizada pelo OpenAIRE

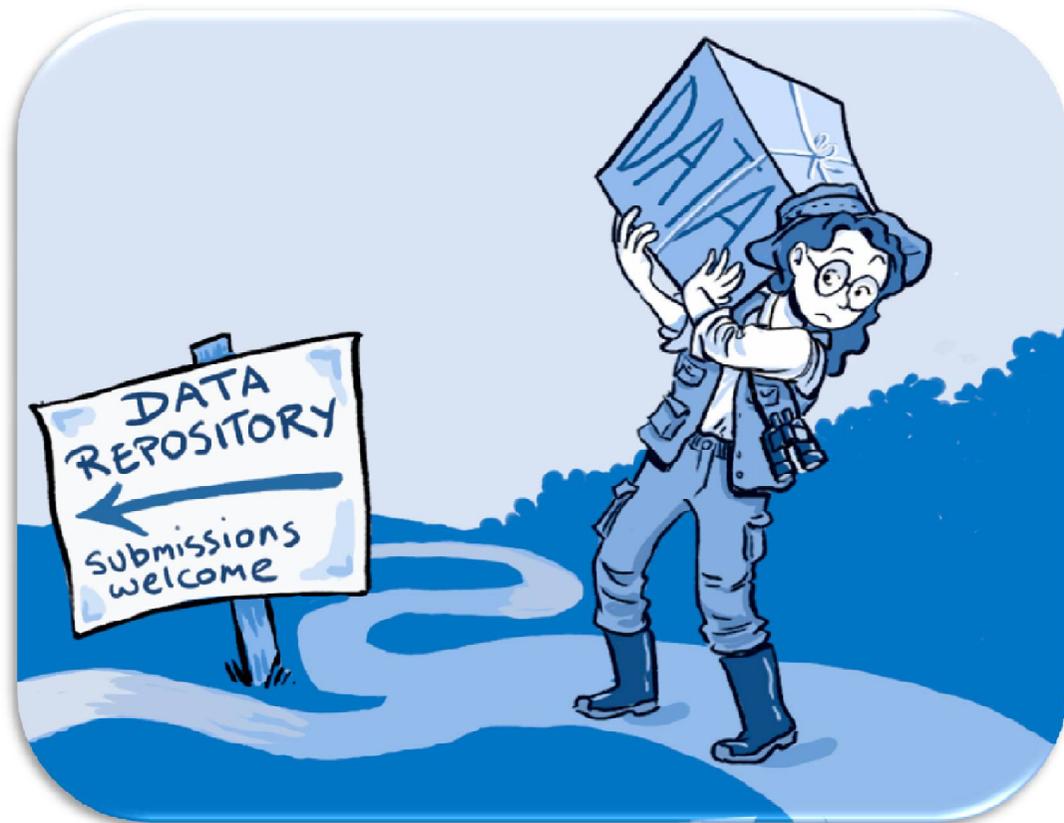
Open Research Data Pilot: <https://www.openaire.eu/opendatapilot>

- Create a Data Management Plan: <https://www.openaire.eu/opendatapilot-dmp>
- Select a Data Repository: <https://www.openaire.eu/opendatapilot-repository>

Factsheet: <https://www.openaire.eu/or-data-pilot-factsheet>

The screenshot shows the OpenAIRE website interface. At the top, there is a navigation bar with the OpenAIRE logo, social media icons, and links for 'BLOG', 'NEWSLETTER', and 'SIGN IN | REGISTER'. Below the navigation bar, there is a main menu with 'PARTICIPATE', 'SEARCH', 'MONITOR', 'SUPPORT', and 'OPEN ACCESS'. The main content area features the article title 'What is the Open Research Data Pilot?' with a sub-header 'Updated on 19 October 2015' and social media sharing icons. The article text explains that open data is free to access, reuse, repurpose, and redistribute, and that the Open Research Data Pilot aims to make research data generated by selected Horizon 2020 projects accessible with as few restrictions as possible. A sidebar on the right titled 'Open Access' contains a list of links: 'BACKGROUND' (Overview, Policies and Mandates, Open Access in FP7, Open Access in H2020), 'IN PRACTICE' (EU Member States), and 'PILOTS' (FP7 Post-Grant OA Pilot, Open Research Data Pilot, Create a Data Management Plan, Select a Data Repository).

The screenshot shows a banner for 'OpenAIRE Horizon2020 FactSheets'. The banner features the OpenAIRE logo on the left and the text 'OpenAIRE Horizon2020 FactSheets' on the right. Below this, there is a large blue section with the text 'Open Research Data Pilot in Horizon 2020' and 'How can OpenAIRE help?' in white.



# 3º ENCONTRO DAS **bibliotecas** de ensino superior

Porto | 2016  
2 e 3 de junho



2 de junho | 16h30 – 18h30 | Faculdade de Direito – Sala 126 | WORKSHOP: 4

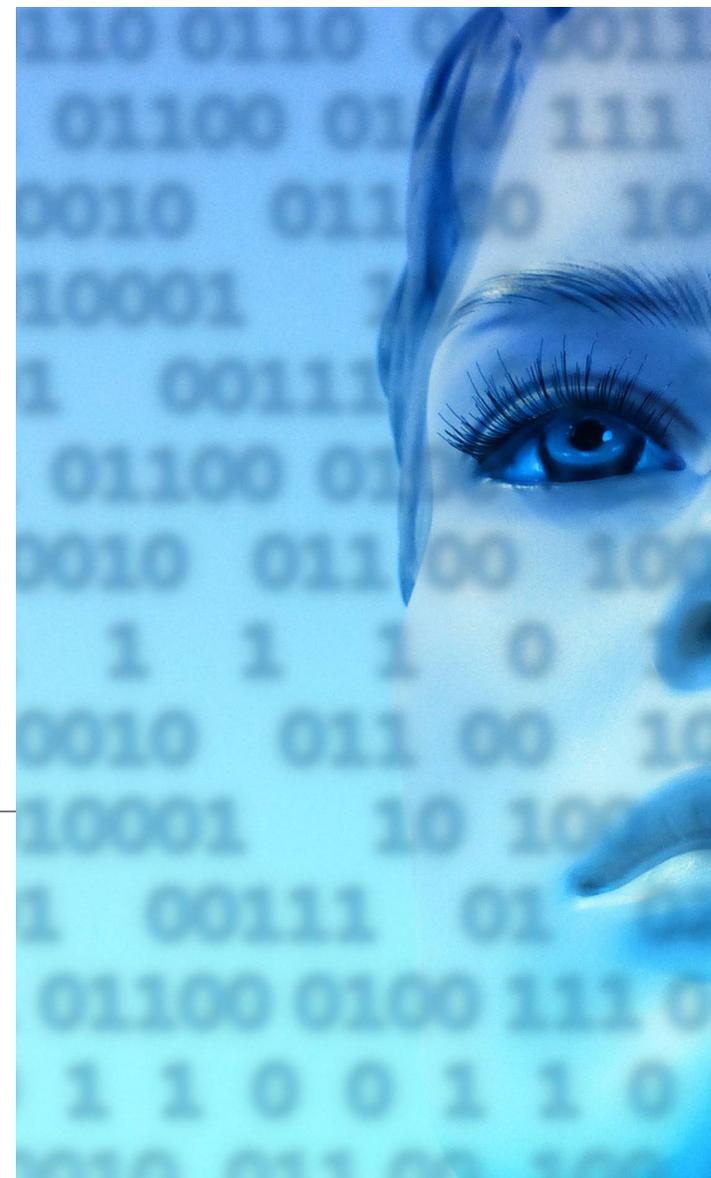
## Gestão de Dados Científicos – PROGRAMA:

1. Eixos de intervenção das instituições no domínio da gestão de dados científicos
2. Planos de ação e estratégias para as bibliotecas na gestão dos dados científicos
3. Políticas de financiadores para a gestão de dados e os dados abertos
4. Serviços, infraestruturas e plataformas para a gestão de dados científicos
  1. Planos de Gestão de Dados
  2. Repositórios de Dados e sistemas para a curadoria de dados
  3. Recursos para formação de profissionais de bibliotecas e informação.
5. Programa de formação para a gestão de dados científicos de estudantes de doutoramento e investigadores

# Recursos para formação de profissionais de bibliotecas e informação

---

4.3



**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.

Essentials 4 Data Support is a product of Research Data Netherlands.



## RDM Support

*Basic training course for information specialists*

MANTRA is a free online course designed for researchers or others who manage digital data as part of a research project.



Learning Units: Select one to start ★ ★ ★ ★ ★ Rate MANTRA (36 Votes)

|                           |                                     |                                     |
|---------------------------|-------------------------------------|-------------------------------------|
| Research data explained > | File formats & transformation >     | Data protection, rights & access >  |
| Data management plans >   | Documentation, metadata, citation > | Sharing, preservation & licensing > |
| Organising data >         | Storage & security >                | Data handling tutorials >           |

**RDMRose**

Home RDMRose Learning Materials Index RDMRose Lite Links Contact us

### RDMRose Learning Materials

On this page:

- Session 1: Introductions, RDM, and the Role of LIS
  - Session 1.1: Introduction to the RDMRose module
  - Session 1.2: RDM basics
  - Session 1.3: The LIS role in RDM
  - Session 1.4: Reflection and reflective writing
- Session 2: The Nature of Research and the Need for RDM
  - Session 2.1: The social organisation of research

ABOUT RDMROSE  
RDMRose is a JISC funded project to produce taught and continuing professional development (CPD) learning materials in Research Data Management (RDM) tailored for information professionals.

GIVE US FEEDBACK  
If you have used any of the RDMRose learning materials, be it for your own use as self-supported CPD or as an e-NLnet, an access point.

# Temas comuns da Formação GDC nos programas de referências europeus

---

**O que são dados?**

Armazenamento

**Papéis de responsabilidades**

Acesso

**Políticas**

Questões éticas

**Gestão de dados**

Publicação

**Partilha de dados**

Preservação

**DMPs**

Citação

**Ferramentas e serviços**

Licenças

...



## Essentials 4 Data Support

[ABOUT THE COURSE](#) › [START THE COURSE](#) › [FORUM](#) › [LOGIN](#) ›

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Essentials 4 Data Support  
<http://datasupport.researchdata.nl/en/>



## Start and plan your course

### ↑ Chapter I overview

This chapter discusses a few of the basis concepts you can refer to during this course. If you take the complete course, these building blocks also serve a background information for the current topic assignment.





[Home](#) [RDMRose Learning Materials](#) [Index](#) [RDMRose Lite](#) [Links](#) [Contact us](#)

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RDMRose

<http://rdmrose.group.shef.ac.uk/>

[Home](#)[About](#)[Acknowledgements](#)[DIY Training Kit for Librarians](#)[Feedback](#)[Contact Us](#)

## Do-It-Yourself Research Data Management Training Kit for Librarians

Provided by EDINA and Data Library, University of Edinburgh in association with the UK Data Archive, Digital Curation Centre (DCC), and Distributed Data Curation Center at the Purdue University Libraries

### Page contents

- [Introduction](#)
- [Training kit contents](#)
- [Downloadable contents by session](#)
- [Independent study: Data Curation Profiles](#)
- [For further study and engagement](#)
- [How to Reuse and attribute this content](#)

# DIY Training Kit for Librarians

<http://datalib.edina.ac.uk/mantra/libtraining.html>



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Learning Units: Select one to start ★★★★★ [Rate MANTRA \(36 Votes\)](#)

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### Session 1: Data management planning

Assignment: MANTRA – Work through the second unit: [Data management plans](#) and the associated further reading page

Assignment: Session 1: Questions for reflective writing and group discussion ([Word version](#); [PDF version](#))

Presentation ([pptx version](#); [PDF version](#)) – Data management planning

Podcast for [Windows](#) (MPEG-4 avi); for [Mac](#) (QuickTime) – Kerry Miller, DCC, narrating Data management planning presentation (16 mins)

[Group exercise 1 and 2](#) (PDF) – UKDA Training Resources Pack, Data Management Planning, Exercise 1

[Download session 1 files as zip](#) (not including MANTRA units).



## RDM Support

*Basic training course for information specialists*

# RDM Support (University of Amsterdam)

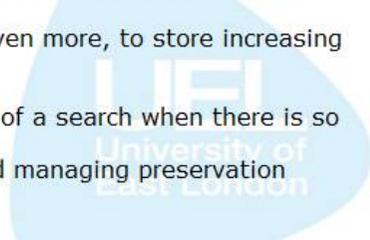
[http://figshare.com/articles/RDM\\_Support\\_basic\\_training\\_course\\_for\\_information\\_specialists/1285313](http://figshare.com/articles/RDM_Support_basic_training_course_for_information_specialists/1285313)

## Keep everything?



Because storage is becoming ever cheaper it is tempting to think that it is possible to keep all data, but Angus Whyte (Digital Curation Centre) and Andrew Wilson (Australian National Data Service) identify four practical objections to this viewpoint:

- **Digital content expands.** It may cost as much as at present, or even more, to store increasing amounts of research data.
- **Backup and mirroring increases costs.**
- **Discovery gets harder.** It gets harder to find the intended target of a search when there is so much on offer.
- **Managing and preserving is expensive.** The costs of creating and managing preservation metadata, and of preservation actions, need to be considered.



# Course comparisons

## RDMRose

- Intro & roles
- Policy & practice
- Lifecycle & DMPs
- Support landscape
- (Open) data
- RDM, repositories, metadata & citation
- Case study & job descriptions
- Roles & responsibilities. Reflecton.

## RDM Support

- Intro to RDM
- Data & services
- DMPs
- Data storage & retention
- Data description
- Rules on research data
- Data sharing and reuse

### Intros

- Policy
- DMPs
- Description
- Storage

## DIY Kit

- Research data explained
- DMPs
- Documentation
- Storage & security
- Ethics & copyright
- Data sharing
- Case study

### Legal issues

Archive & share

## SupportDM

- Intro to data & RDM
- Supporting researchers
- DMPs
- What to keep and why
- Cataloguing data
- Data sharing

### Support & services

Roles

## Essentials 4 data support

- Definitions
- Planning
- Collecting, describing & storing data
- Archive, publish, cite data
- Policy, practice, licensing
- Data support, roles, case studies

Case studies

# *Precisamos de*

---

**Adquirir confiança!**

**E compreender as diferentes questões técnicas e estratégicas.**

**Adquirir Formação! Arriscar fazer.**



**ands.org.au/23-things**

**23 things**  
[research data]

**What?**  
Self-directed training program:

- RDM training for research support staff & others
- RD community building initiative

**Why?**

- Wider reach – AU/NZ
- Develop replicable activities and reusable resources
- Crowdfund RD community knowledge

**How?**

- Register for the kick off webinar 1 March
- Create/Join a local community catchup
- Join [weky](#) online

**Who me? Yes you!!!**  
Interested in learning more about RD? Well then, this program is for you!!  
Newbie? Want to know more?  
Want a challenge? All welcome!!

**What's covered?**  
All things RD - take a look at the **Poster** for the list of 23 Things topics

**Note:** Things suitable for varied levels of experience and interest

**What to do next?**  
Check out the details at:  
**[ands.org.au/23-things](http://ands.org.au/23-things)**

Brought to you by [ands<sup>®</sup>](#) & the RD community

<http://ands.org.au/partners-and-communities/23-research-data-things>



FACILITATE OPEN SCIENCE TRAINING FOR EUROPEAN RESEARCH

Open Science Training for National  
Contact Points (NCP)



29 Apr 2016 to 27 May 2016

### What to do:

 [Advanced search](#)

- [Take Courses](#)
- [Create Courses](#)
- [See upcoming events](#)

### News

- [Love research data management](#)
- [Go to the project website](#)

### Featured Topics



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[Open Repositories](#)

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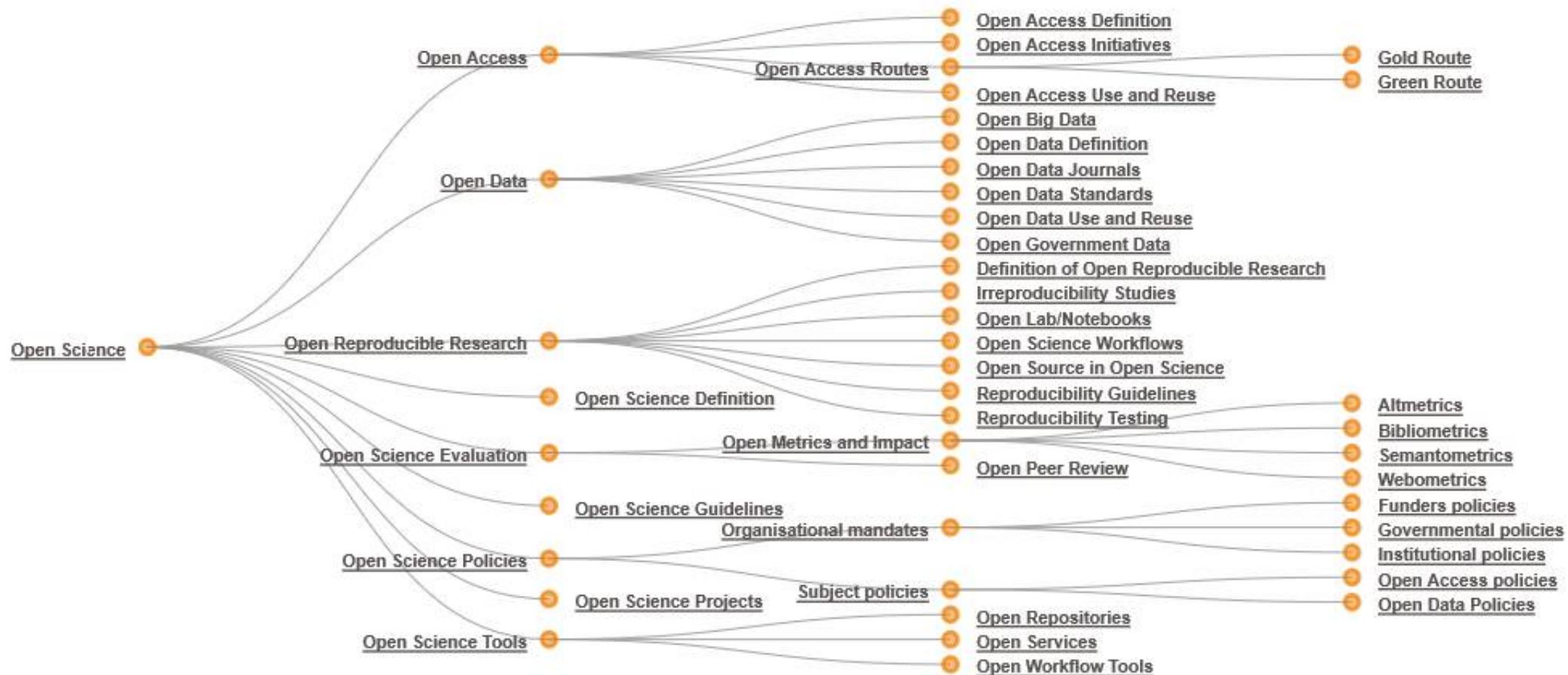
# Diagrama da classificação do projeto FOSTER

Open Science

Research Data Management

Ethics

Legal Issues



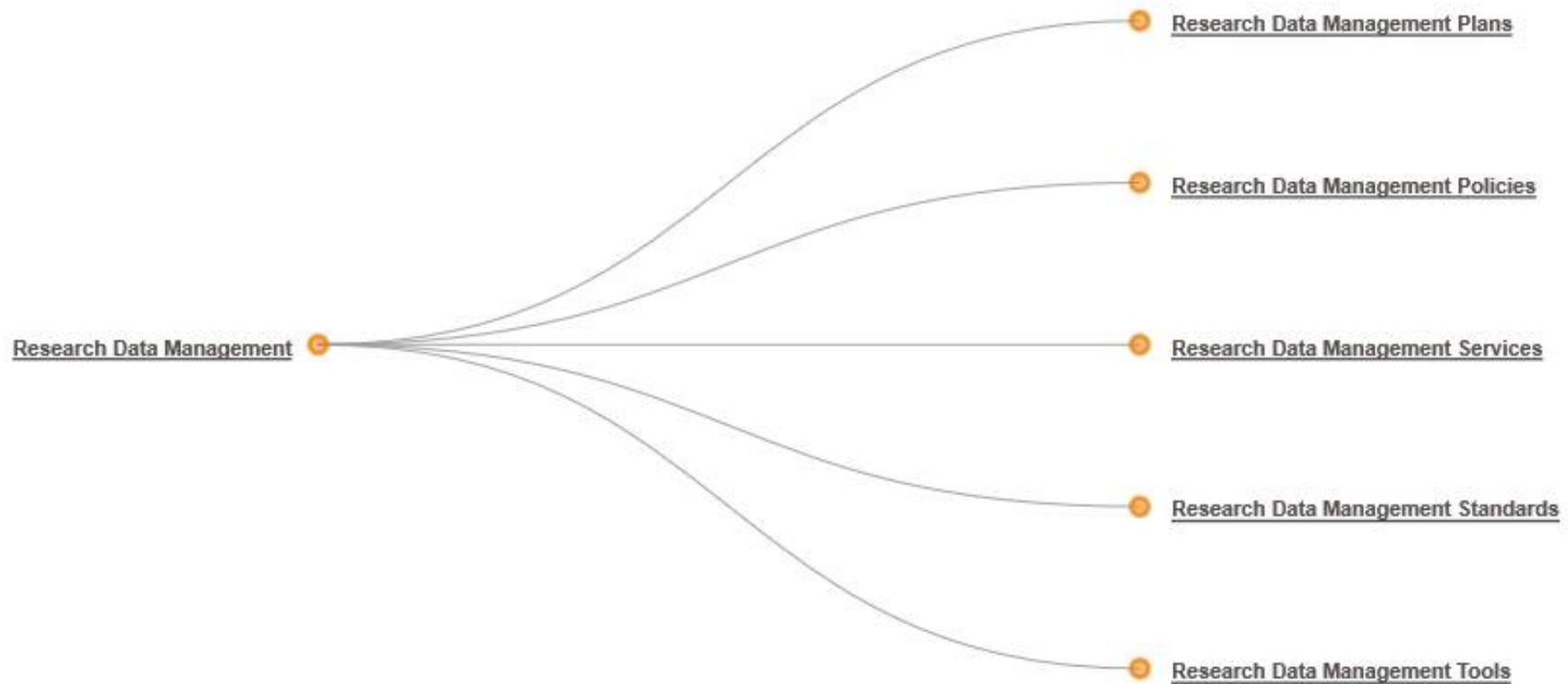
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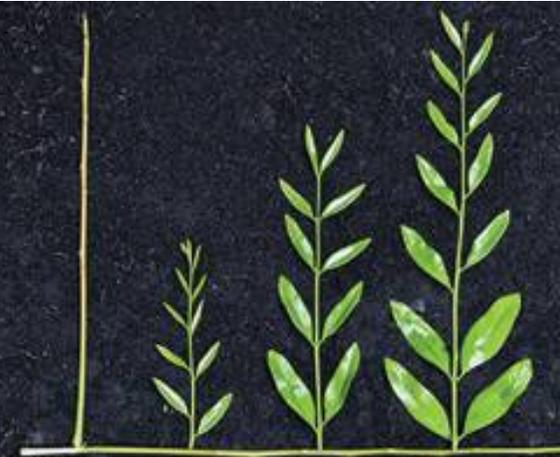
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