# Gestão de Dados Científicos

## DESENVOLVIMENTOS DE SERVIÇOS NAS INSTITUIÇÕES DE INVESTIGAÇÃO PORTUGUESAS

# Gestão de Dados Científicos: intro

0

# O que são dados científicos...



http://epicgraphic.com/data-cake

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

A Gestão de Dados

Research Data Life Cycle

Univ. Queensland http://guides.library.uq.edu.au/research-data-management
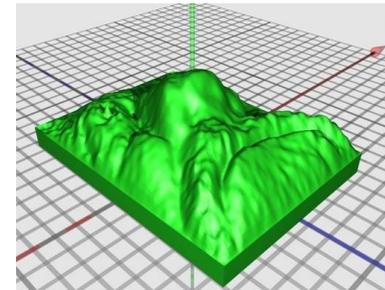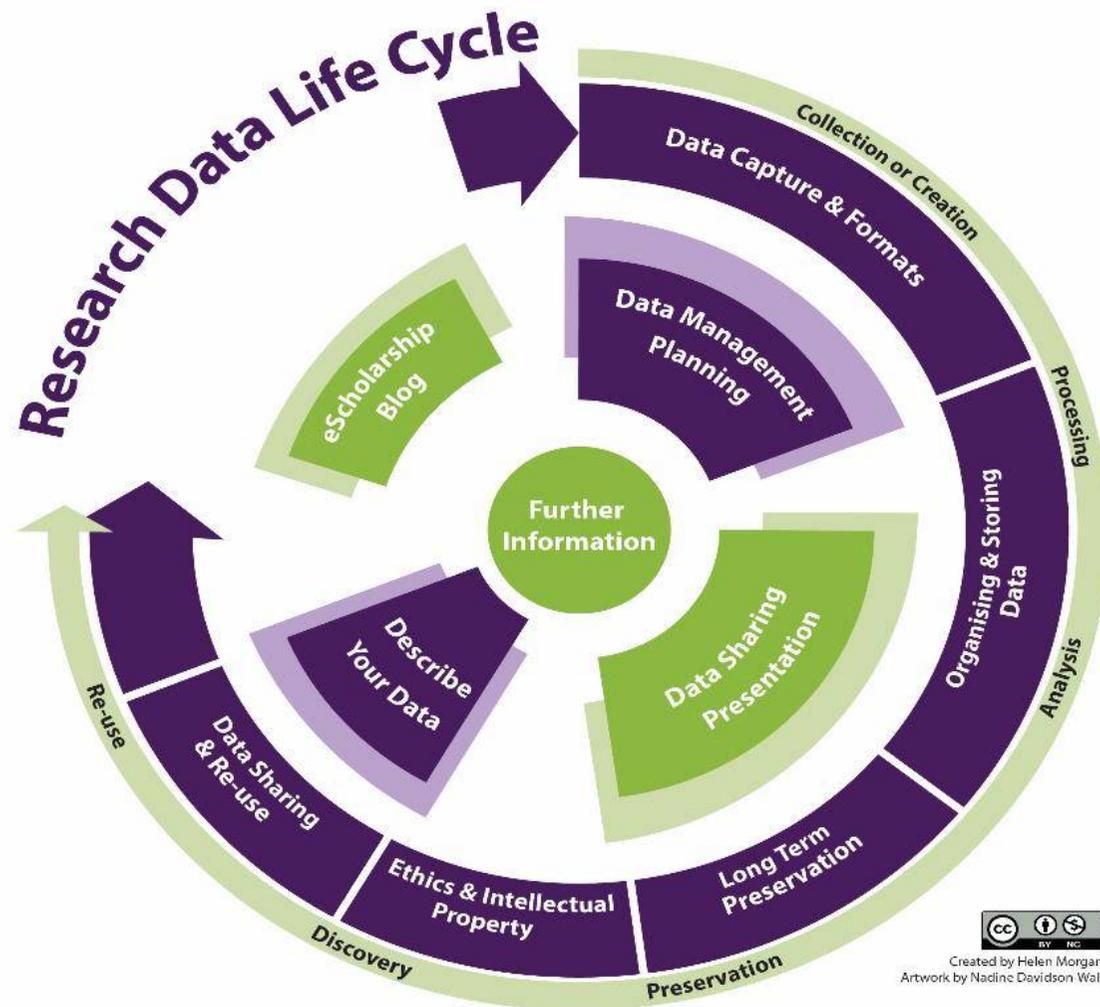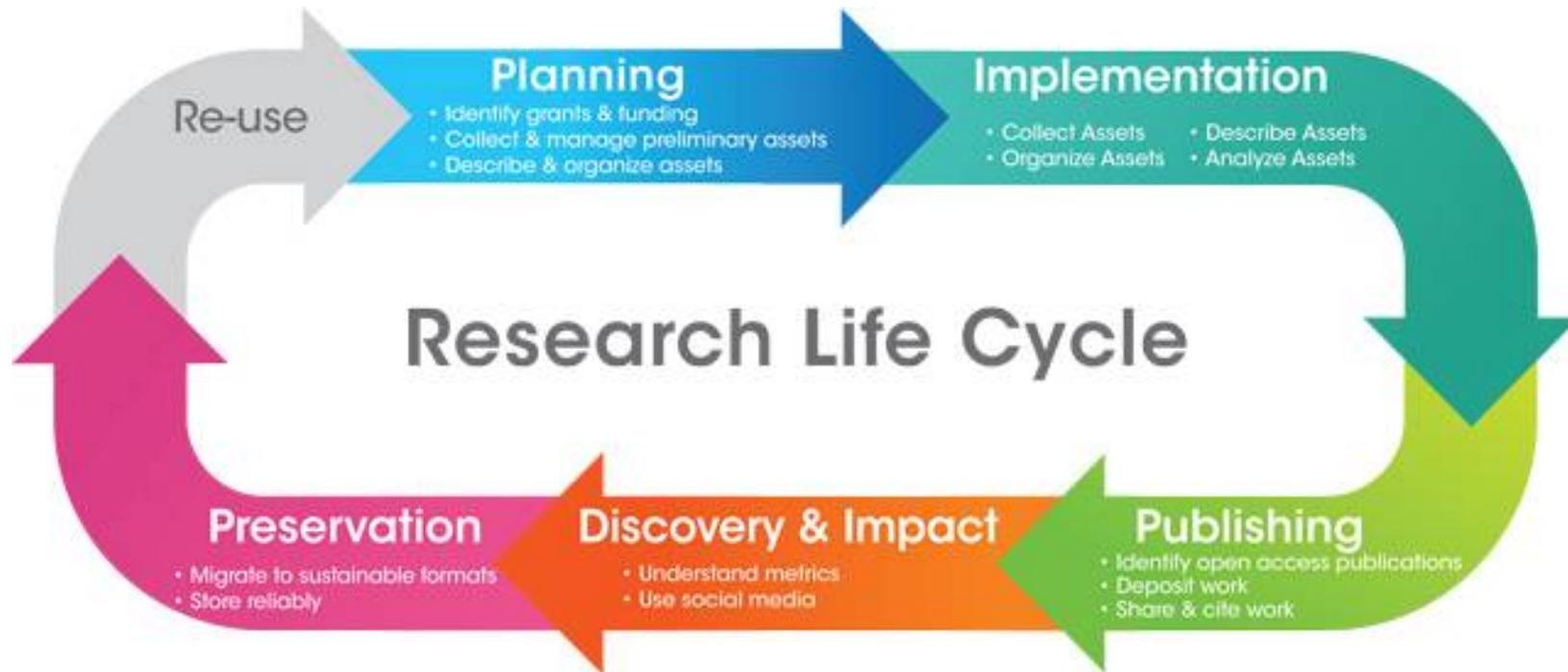
Scheme from University of California- Irvine http://www.lib.uci.edu/dss

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. Salvaguardar os dados produzidos
5. Assegurar compatibilidade



**AUMENTAR O IMPACTO DA INVESTIGAÇÃO**
maximizando a visibilidade dos dados produzidos e promovendo a transparência.

**ASSEGURAR A COMPATIBILIDADE**
cumprindo os requisitos dos financiadores de ciência e de infraestruturas de informação.

**MELHORAR A ACESSIBILIDADE**
asegurando a qualidade e integralidade dos dados durante o projeto de investigação e depois de concluído.

**SALVAGUARDAR OS DADOS PRODUZIDOS**
estabelecendo as medidas necessárias à gestão do armazenamento e de backups.

**PREVENIR O USO INADEQUADO**
identificando as questões de reserva e confidencialidade que devem ser asseguradas.

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

1 & 2

# 6 regras para as instituições de investigação

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.

# Quem está envolvido na instituição?

Bibliotecas

Gabinetes de investigação

Serviços de TIC

**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

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

## 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

**LERU Roadmap for Research Data**

LERU Research Data Working Group

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

**League of European Research Universities**

# 23 Things: Libraries for Research Data

**RDA** — RESEARCH DATA ALLIANCE — **UNITED STATES**

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/1qUvKG3

2. Relevant concepts are presented and mapped in the e-Science Thesaurus, http://bit.ly/1LFo4h8

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/1RRvVju

5. Read the most current literature in the **Digital Curation Bibliography**, http://bit.ly/1ljoivX

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

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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/1chftXh

9. Develop engagement materials to help your librarians such as the DataOne Librarian Outreach Kit, http://bit.ly/1gOU3mn

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10. Questions about data answered by experts on the **DataQ** forum, http://bit.ly/1MoH4Vg

## 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/1LvNZMH

## 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

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

1. Offer research data management support, including data management plans for grant applications, intellectual property rights ad-vice and information materials. Assist facul-ty with data management plans and the in-tegration of data management into the cur-riculum.

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 librarian-ship.

4. Actively participate in institutional research data policy development, including re-source plans. Encourage and adopt open data policies where appropriate in the re-search data life cycle.

5. Liaise and partner with researchers, re-search groups, data archives and data cen-ters to foster an interoperable infrastruc-ture for data access, discovery and data sharing.

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

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 in-frastructure.

9. Get involved in subject specific data man-agement practice.

10. Offer or mediate secure storage for dynam-ic and static research data in co-operation with institutional IT units and/or seek ex-ploitation 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**.

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

# Recomendações da LIBER revisitadas

**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

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.

Ten recommendations for libraries to get started with research data management

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

**Serviços da Data Library da Universidade de Edimburgo**

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

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



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

# 2. Desenvolvimento de normas e serviços de metadados

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

Ten recommendations for libraries to get started with research data management

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

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)

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**

# 3. Desenvolvimento de competências

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

research data netherlands

Essentials 4 Data Support

ABOUT THE COURSE ▶  START THE COURSE ▶  FORUM ▶  LOGIN ▶

**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.

UNIVERSITY OF AMSTERDAM
Library

RDM Support
*Basic training course for information specialists*

MANTRA
Research Data Management Training

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

Research Student    Career Researcher    Senior Academic    Information Professional

Home    About    Acknowledgements    DIY Training Kit for Librarians    Feedback    Contact Us

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 >

EDINA        EDINA Privacy & Cookies | Website Accessibility | Last update: 10 Sept 2014

THE UNIVERSITY of EDINBURGH

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RDMRose

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**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 greatly

# Projetos europeus relevantes:

Open Science Training for National

Contact Points (NCP)

NCP
ACADEMY    Training National Contact Points

29 Apr 2016 to 27 May 2016

# FOSTER

FACILITATE OPEN SCIENCE TRAINING FOR EUROPEAN RESEARCH

## What to do:

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## Featured Topics

Open Access

Open Science

Open Data

Research Data Management

Open Science Policies

Funders policies

Open Access policies

Open Repositories

View all topics. ❤

## News

🔊 Love research data management

Go to the project website

This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 612425

# 4. Políticas institucionais de gestão dos dados

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**.

Ten recommendations
for libraries to get
started with research
data management

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

# Políticas institucionais de GDC



Professor Jeff Haywood
Vice Principal Knowledge Management

0:01 / 4:37

Research data management policies - Jeff Haywood

http://youtu.be/V8IIdfBAr_0

# LERU Roadmap for Research Data

LERU Research Data Working Group

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

**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

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

# Quem está envolvido na instituição?



**Bibliotecas**

**Gabinetes de investigação**

**Serviços de TIC**

**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

# 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**.

Ten recommendations
for libraries to get
started with research
data management

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

https://dmponline.dcc.ac.uk

A Digital Curation Centre 'working level' guide

**DCC JISC**

## How to Develop a Data Management and Sharing Plan

Sarah Jones (DCC)

**DMP**online

The **DCC** Data Management Planning Tool

https://dmponline.dcc.ac.uk

www.dcc.ac.uk/resources/how-guides/develop-data-plan

# 7. Citação dos dados e links e identificadores permanentes

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

http://www.ands.org.au/guides/data-citation-awareness.html

# Identification of datasets favours their use and citation
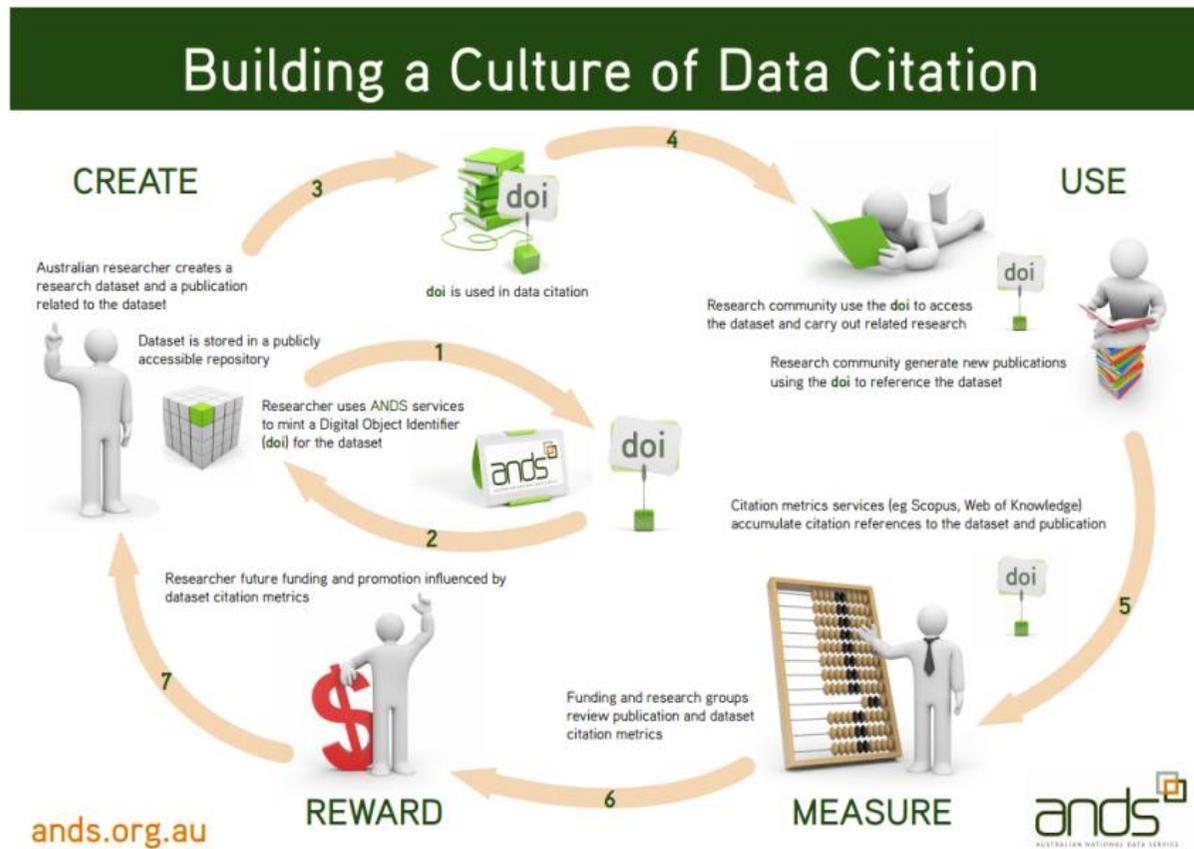


*Australian National Data Service*. http://www.ands.org.au/cite-data/index.html

## DRYAD

About ▾    For researchers ▾    For organizations ▾

### 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

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

Cite | Share

| | |
|---|---|
| Keywords | Rodent, Vole, Biodiversity, Tick-Borne, Rodent-Borne, Hantavirus, Linear Regression, Random Forest, Generalised Linear Modelling, EDENext extent |
| Date Submitted | 2013-06-24T17:09:37Z |
| Scientific Names | Apodemus agrarius, Apodemus flavicollis, Apodemus mystacinus, Apodemus sylvatica, Clethrionomys glariolus, Microtus arvalis, Microtus subterraneus, Rattus norvegicus, Rattus rattus, Sorex araneus, Sorex minutus |
| Spatial Coverage | Europe, 72.3N, 34.0E, 12.0W, 47.6N |
| Contained in Data Package | 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 <br> **Tamaño:** 3.774Kb <br> **Formato:** Fichero de texto <br> **Descripción:** dc_readme <br> **Checksum (MD5):** 00c311411c092f38f0cdc73343f8aabe | Ver/<wbr/>Abrir |
| | **Nombre:** volebiodivv2.zip <br> **Tamaño:** 327.7Mb <br> **Formato:** application/zip <br> **Descripción:** dataset-file <br> **Checksum (MD5):** eb9e7764f5b86d240302d7a000e15415 | Ver/<wbr/>Abrir |

# 8. Repositórios de dados

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

Ten recommendations
for libraries to get
started with research
data management

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

# 9. Envolva-se e pratique a gestão de dados científicos

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

Ten recommendations
for libraries to get
started with research
data management

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

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

**Política e estratégia de GDC**

**Planos de negócio e sustentabilidade**

**INFRAESTRUTURA**

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

Planeamento da gestão de dados

Gestão de active data

Catálogos de dados

Seleção de dados e utilização

Repositórios de dados

· 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

- 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:

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

**Diagnóstico & política**

# 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 selecionadas de acordo do guião DAF.

Diagnóstico & política

# Aplicação para planos de gestão de dados



https://dmponline.dcc.ac.uk

**Serviços de suporte & informação**

# Guias e materiais de (in)formação GDC



**Serviços de suporte & informação**

# Coleção no Repositório de dados Zenodo



**www.zenodo.org**

**Infraestruturas & normalização**

# Dados ligados a artigos no RepositóriUM



**Infraestruturas & normalização**

# Adquirir competências e formação na GDC



**Competências & recursos humanos**

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



| Data | Information |
| Presentation | Knowledge |

EpicGraphic.com

*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.**

**LE**
**RU**

LEAGUE OF EUROPEAN RESEARCH UNIVERSITIES

# 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.
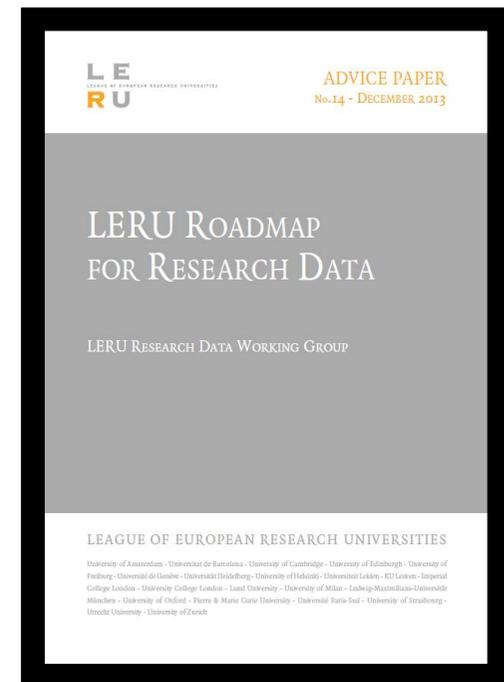
# LERU roadmap: conteúdo

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

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.
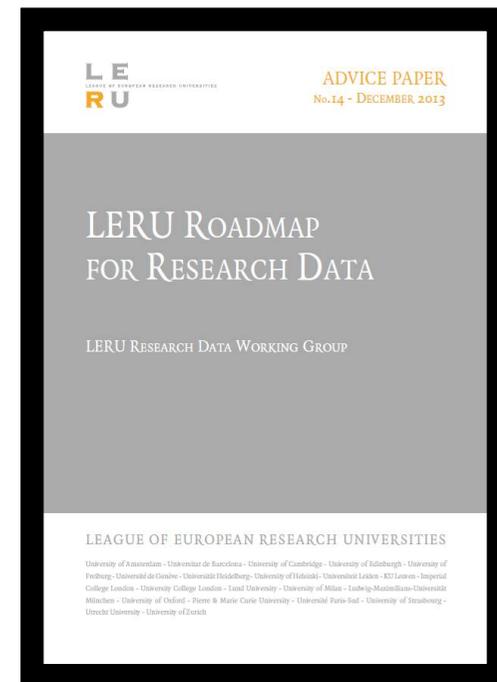
# learn

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## 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 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...**



**learn** *LEaders Activating Research Networks:*
Implementing the LERU Research Data Roadmap and Toolkit

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
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

3

# Porquê Open Data?

**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!**

00
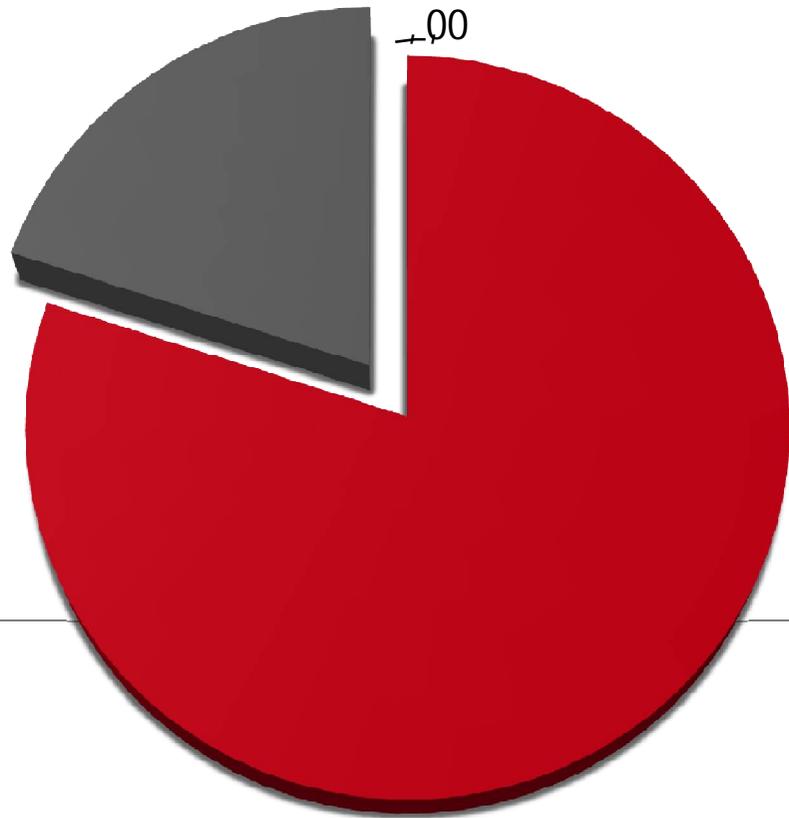
# 80%
of research is
## publicly
## funded

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=RxArFbnG1P&n=360010.PDF

# Requisitos dos financiadores para Open data

**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...

| Funder | Policy Coverage | Policy Coverage | Policy Stipulations | Policy Stipulations | Policy Stipulations | Policy Stipulations |
|---|---|---|---|---|---|---|
| | Published Outputs | Data | Time Limits | Time Frame | DMP | Access/ Sharing |
| 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 |

# 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

**FCT** Fundação para a Ciência e a Tecnologia

MINISTÉRIO DA EDUCAÇÃO E CIÊNCIA

# 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[1], 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

**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



"[...] 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

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

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

www.openaire.eu/opendatapilot



EUROPEAN COMMISSION
Directorate-General for Research & Innovation

**Guidelines on Data Management in Horizon 2020**

Version 2.1
15 February 2016

EUROPEAN COMMISSION
Directorate-General for Research & Innovation
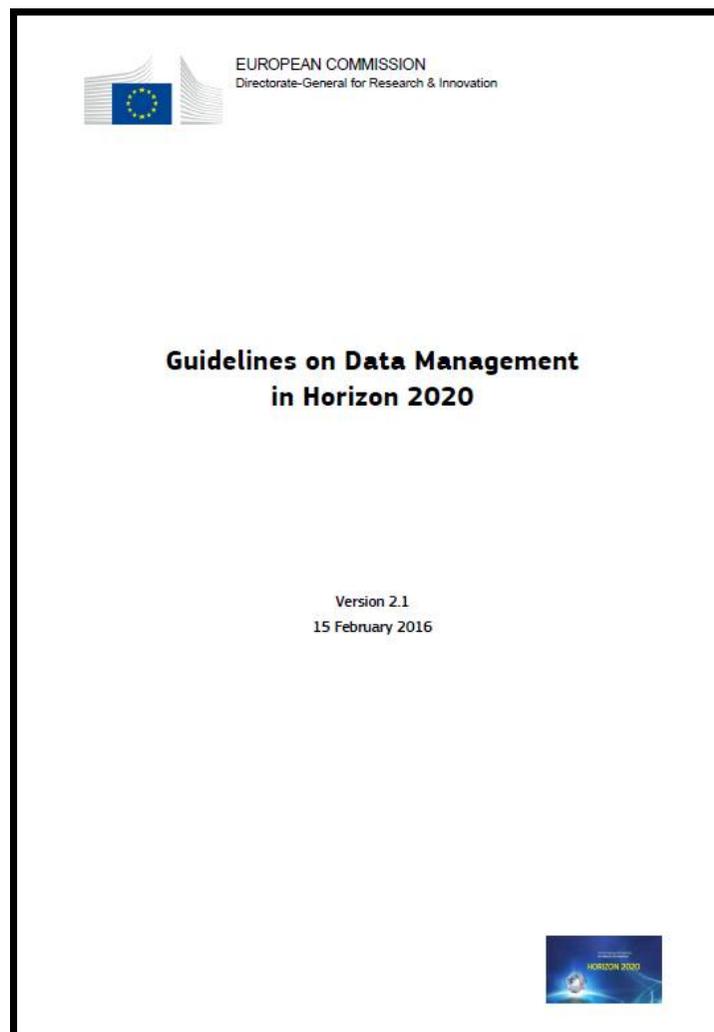
**Guidelines on Open Access to Scientific Publications and Research Data in Horizon 2020**

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

# 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?

FOSTER

# 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**)

FOSTER

# 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 C**E**.



**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**

FOSTER

86

# Piloto de dados abertos no H2020 – QUE DADOS?

Dados para validar os resultados apresentados em publicações científicas.
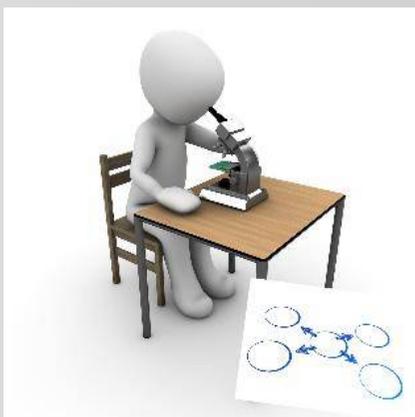
Outros dados, conforme especificado no plano de gestão de dados.

# 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.**

FOSTER

# 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).

FOSTER

# Abordagem da Comissão Europeia:

## AS OPEN AS POSSIBLE, AS CLOSED AS NEEDED
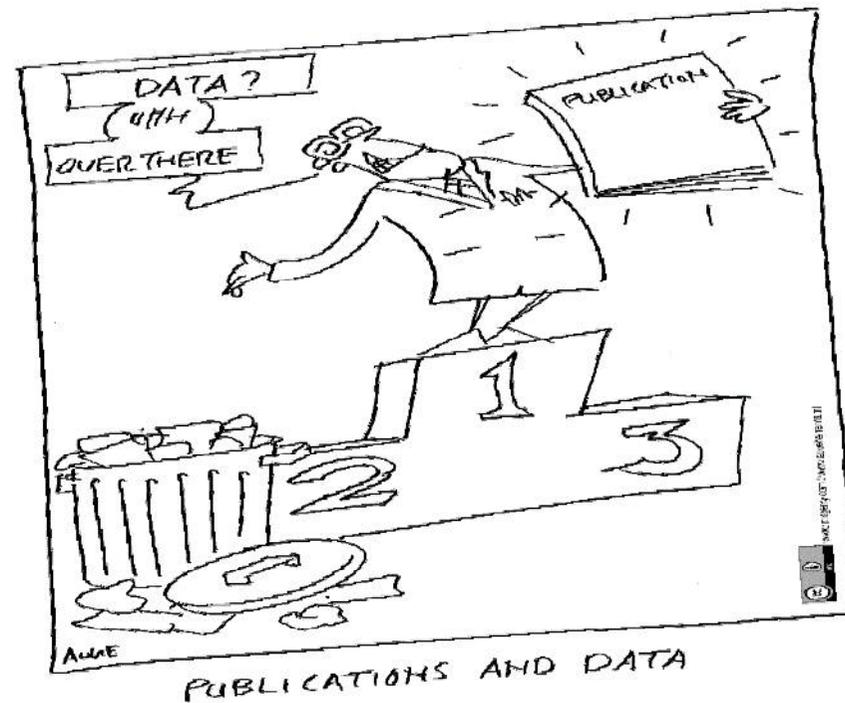
# Opting out / opting in

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



✓ **e optar por participar voluntariamente é igualmente possível.**

FOSTER

# 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
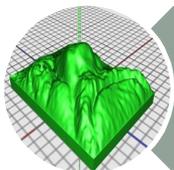
Providenciar info de ferramentas

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

## 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.**

FOSTER

# 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.

FOSTER

# Devenvolvimento do Plano de Gestão de Dados

**Initial plan** ➤ **Mid-term** ➤ **Final review**

➢ **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



**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

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isc

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 comm

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

Otherwise leave blank.

European Commiss

**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 require 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 elaborated 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 fi consortium since not all data or potential uses are clear from the start.

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

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).

## 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: | - Data set reference and name<br>- Data set description<br>- Standards and metadata<br>- Data sharing<br>- Archiving and preservation (including storage and backup) |

## 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

Save

Answered 7 months ago by M Grootveld

Data set description

The data will consist of:
- 30 audiovisual files in MPEG4 format, each a one hour interview
- 30 transcriptions in .TXT

Guidance | Share note

EC Guidance

Guidance | Share note

EC Guidance

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

Save

**Initial DMP**

**5**

**ID of the dataset, assigned by PI**

**PI's answer**

**EC guidance**

# 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 |

**Scientific research data should be easily: 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

**Several export formats**

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

www.openaire.eu

All    ⌄    Search keywords    SEARCH

**Publications**    Research Data    Projects    People    Organizations    Data Providers

| 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) |
| | | View more ⮕ | View more ⮕ |

| 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) | | |
| View more ⮕ | View more ⮕ | | |

![OpenAIRE logo]

# 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

3° 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
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    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

research data netherlands

**Essentials 4 Data Support**

ABOUT THE COURSE ▸   START THE COURSE ▸   FORUM ▸   LOGIN ▸

**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.

UNIVERSITY OF AMSTERDAM

Library

## RDM Support
*Basic training course for information specialists*

MANTRA
Research Data Management Training

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

Research Student   Career Researcher   Senior Academic   Information Professional

Home   About   Acknowledgements   DIY Training Kit for Librarians   Feedback   Contact Us

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

Research data explained >   *i*
File formats & transformation >   *i*
Data protection, rights & access >   *i*

Data management plans >   *i*
Documentation, metadata, citation >   *i*
Sharing, preservation & licensing >   *i*

Organising data >   *i*
Storage & security >   *i*
Data handling tutorials >   *i*

EDINA     THE UNIVERSITY of EDINBURGH

EDINA Privacy & Cookies | Website Accessibility | Last update: 10 Sept 2014

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# RDMRose

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**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 greatly

# Temas comuns da Formação GDC nos programas de referências europeus

**O que são dados?**

**Papéis de responsabilidades**

**Políticas**

**Gestão de dados**

**Partilha de dados**

**DMPs**

**Ferramentas e serviços**

Armazenamento

Acesso

Questões éticas

Publicação

Preservação

Citação

Licenças

...

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

| I | II | III | IV | V | VI |
|---|---|---|---|---|---|
| DEFINITIONS | PLANNING PHASE | RESEARCH PHASE | USER PHASE | LEGISLATION & POLICY | DATA SUPPORT |

# 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.



research data    open data    lifecycle    data jargon    sources of information

# RDMRose
http://rdmrose.group.shef.ac.uk/

# DIY Training Kit for Librarians
http://datalib.edina.ac.uk/mantra/libtraining.html

http://datalib.edina.ac.uk/mantra/

# DIY Training Kit for Librarians
http://datalib.edina.ac.uk/mantra/libtraining.html

**MANTRA**
Research Data Management Training

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## 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

| 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 (University of Amsterdam)
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.

https://moodle.uel.ac.uk/xerte/play.php?template_id=75
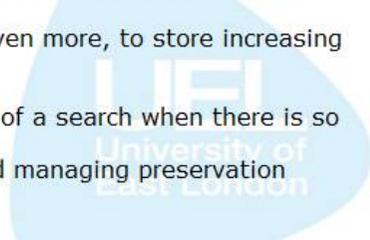
# Course comparisons

**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**

**DIY Kit**

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

**SupportDM**

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

**Essentials 4 data support**

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

**Policy**
**Description**
**Legal issues**
**Support & services**

**DMPs**
**Storage**
**Archive & share**
**Roles**
**Case studies**

# Precisamos de

**Adquirir confiança!**

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

**Adquirir Formação! Arriscar fazer.**

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

Open Science Training for National
Contact Points (NCP)

**NCP ACADEMY** Training National Contact Points

29 Apr 2016 to 27 May 2016

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# Diagrama da classificação do projeto FOSTER

# Diagrama da classificação do projeto FOSTER

3° 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