

# CESSDA Data Management Expert Guide

## Why and how to use it

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*Patrícia Miranda (ICS ULisboa )*

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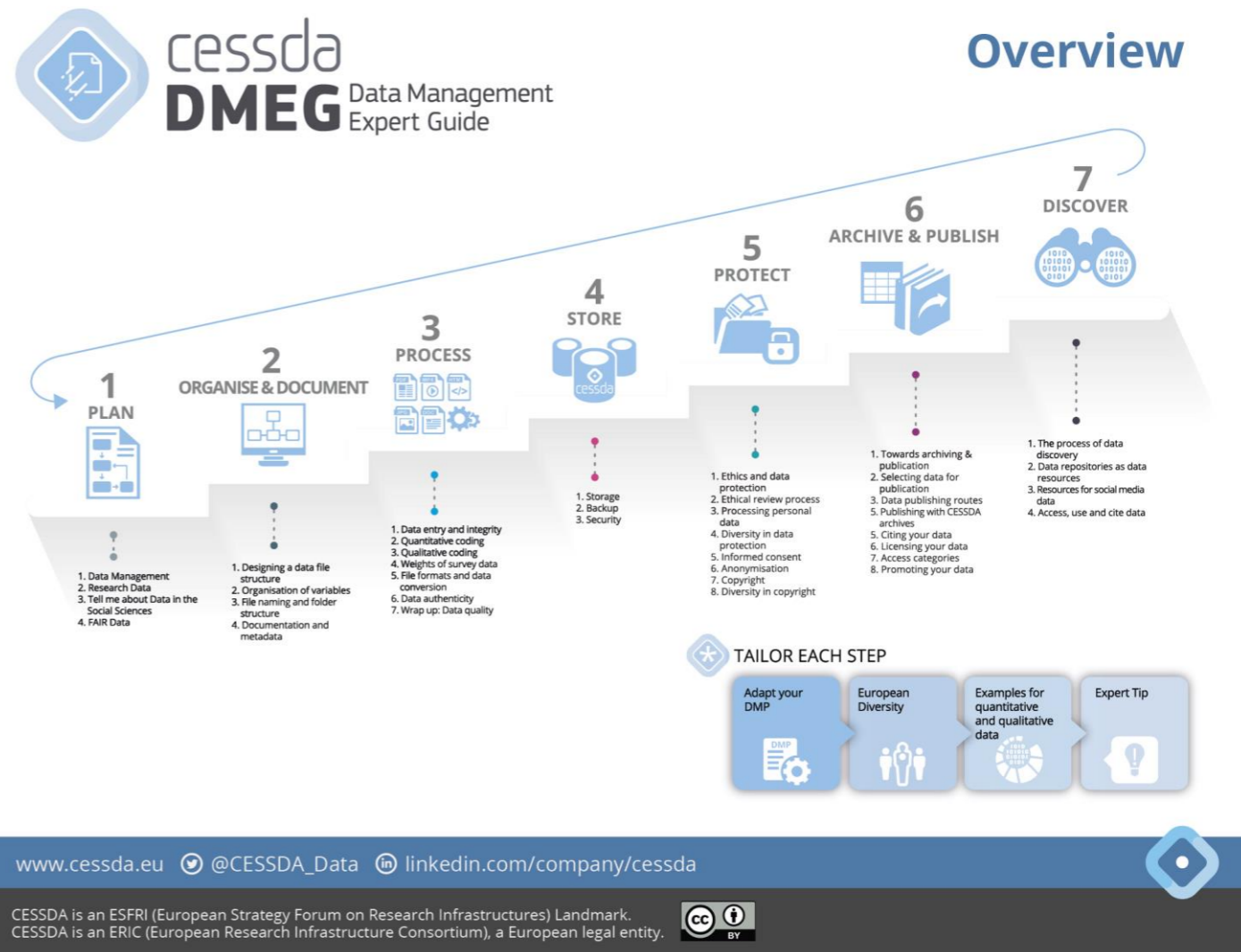


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# Today's aim

Discuss with a co-author, trainer and early career researcher **why and how to use** the CESSDA Research Data Management Expert Guide (CESSDA DMEG) in the social sciences and beyond.



# Today's Agenda

- ◆ The CESSDA DMEG Quiz - you
- ◆ CESSDA DMEG: Author's perspective – Ricarda Braukmann (DANS)
- ◆ CESSDA DMEG: Trainer's perspective - Patrícia Miranda (ICS ULisboa)
- ◆ CESSDA DMEG: User's perspective - Sothearath Seang (Eurodoc)
- ◆ Discussion with CESSDA DMEG author, trainer, early career researcher and you

# Today's Perspectives



*Ricarda Braukmann,  
DANS*

**CESSDA DMEG Co-author**



*Patrícia Miranda,  
ICS-ULisboa*

**RDM Trainer**



*Sothearith Seang,  
Eurodoc*

**Early Career Researcher**

# The CESSDA DMEG Quiz




- Being able to set up and adjust a search strategy to find suitable data for your research purposes.
- Understanding that social science data repositories are important sources for discovering social science data.
- Being aware of data sources that CESSDA experts recommend for selected research topics.
- Being aware of steps in evaluating the quality and usefulness of data for secondary analysis.
- Understanding different types and modes of access to data.
- Answering DMP questions listed at the end of this chapter and adapting your own DMP.

## The process of data discovery

- A fictive data discovery story with roots in reality
  - › Reuse data and save costs and time
  - › Compare results or make replication studies
  - › Reuse verified elements of research design
  - › Enhance data quality and foster innovation
- Steps in data discovery
-  **Expert Tip:** Prevent filter bubbles


## Data repositories as data resources

- A case study: Data resources for researching wellbeing
- Important social science data archives
-  **European diversity**
- Expert selections of data resources:  
Data resources for ageing | International comparisons | Other curated resources

## Resources for social media data

- Platforms as social media data | social media data in EU data archives | general repositories | field specific and thematic social media data sources

## Access, use and cite data

- Challenges in using data
- Case study: Data for a replication study
- Citing data
-  **Expert Tip:** Use a persistent identifier



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# CESSDA DMEG

Author's perspective

*Ricarda Braukmann (DANS)*

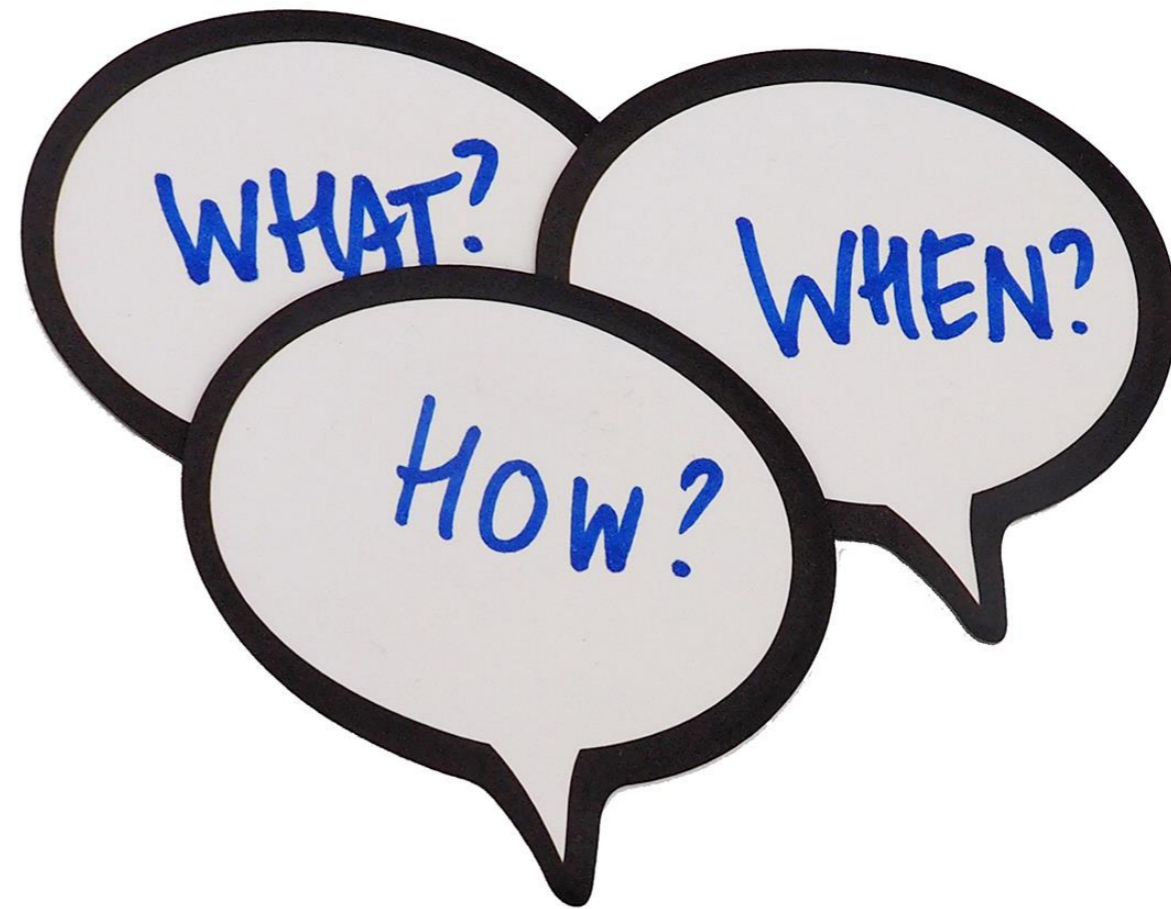
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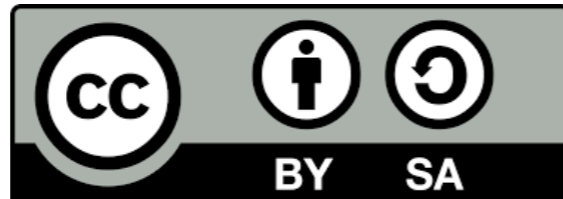


# The Data Management Expert Guide



# The Data Management Expert Guide

- ◇ Guide on Research Data Management (RDM)
  - ◇ For early career researchers (in the social sciences)
- ◇ Provides useful information on RDM in one central place
- ◇ Created by CESSDA training team 2017-2020
- ◇ Free to use at [www.cessda.eu/dmeg](http://www.cessda.eu/dmeg)





FOR

social scientists who are in an early stage of practicing RDM

the CESSDA expert tour guide to data management

IS A

an openly licensed learning tool/ learning bouquet

WHICH

PROVIDES

discipline specific, hands-on guidance from a European

perspective with local expertise

UNLIKE

MANTRA or Essentials 4 Data Support

WHICH

have a more general/different audience and lack international perspective

The CESSDA expert tour guide to data management

EXCELLS IN

balancing simplicity (short, clear, practical) with richness. It is appealing because of

it's fun factor and freshness (fluffyness)

LEARNING IS DESIGNED AS

an online tour guide

(based on the research data lifecycle) which is customisable for local use/training



# Following the Data Life Cycle



# Following the Data Life Cycle



## Data Management Expert Guide

- 1. Plan
- 2. Organise & Document
- 3. Process
- 4. Store**
  - Storage
  - Backup
  - Security
  - Adapt your DMP: part 4
  - Sources and further reading
- 5. Protect
- 6. Archive & Publish
- 7. Discover

## Main take-aways

After completing the chapter, you should be:

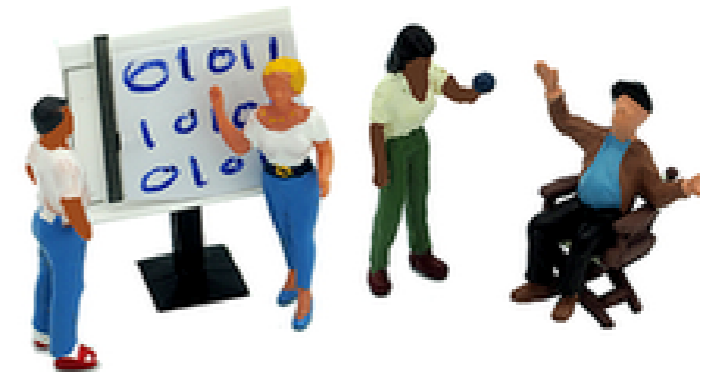
- Aware of different storage solutions and their advantages and disadvantages;
- Able to plan a storage strategy adequate to the needs of your project;
- Able to plan a backup and disaster recovery strategy to ensure that no data loss, e.g. through human error or hardware failure, will occur during the project;
- Able to decide when and how to protect your data against unauthorised access with strong passwords and encryption.
- Able to answer the [DMP questions](#) which are listed at the end of this chapter and adapt them to your own DMP.



# Recurring Elements



- ◆ Expert Tips
- ◆ European diversity
- ◆ Qualitative & Quantitative data
- ◆ Adapt your Data Management Plan (DMP)



# Create own DMP

- ◆ Checklist to answer questions for their own study



# The DMEG as a resource for trainers

- ◊ Train-the-trainer (TTT) package

- ◊ Workshop Outlines

- ◊ Presentations

- ◊ Exercises

- ◊ Documents (DMP, handouts, workshop evaluation forms, ...)

- ◊ Images

**Exercise: Re-Identification (qualitative data)**

- Work in small groups
- Time: about 30 minutes
- At the end, one member of your group should briefly present the results of your discussion and your conclusions.

**Skeleton for a "content-specific" 1-day workshop**

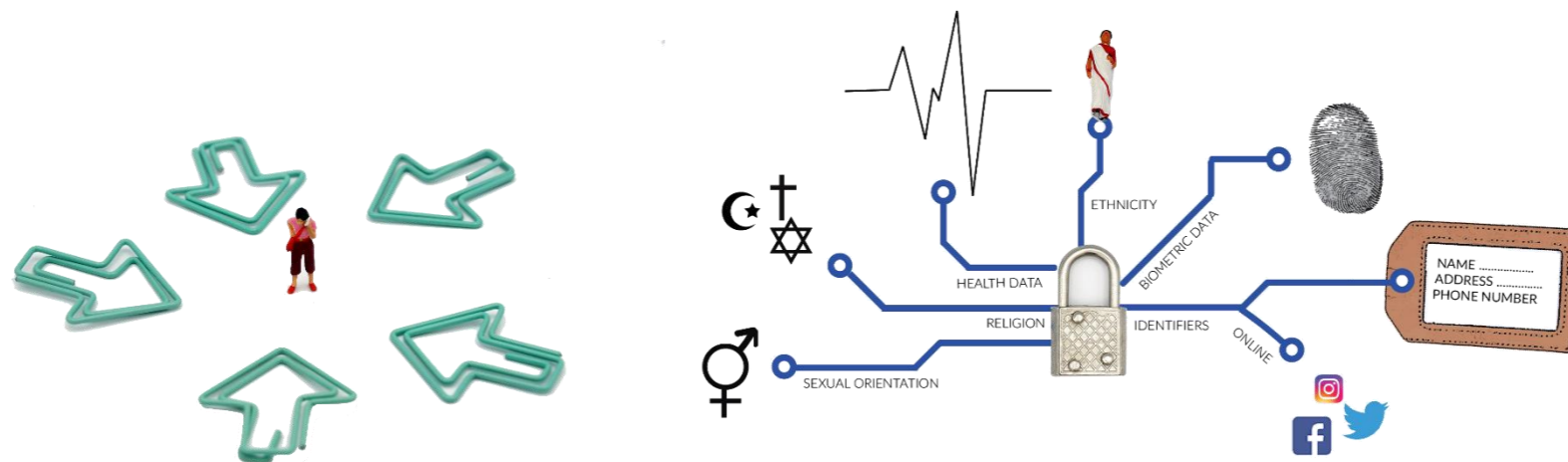
Use or adapt this outline to offer your own workshop discussing ethical and legal considerations in Research Data Management.

**Level:** For beginners, in-depth workshop on ethical and legal considerations in research data management

**Time frame:** 1-day workshop (ca 6 hours, e.g. 09:00 - 15:00)

**Target group:** Researchers/PhD candidates

**Recommended no. of participants:** up to 30 participants



# Embedded into a larger landscape

- ◇ Made for social scientists but useful for other disciplines
- ◇ Available through SSHOC Training Toolkit
  - ◇ Part of the European Open Science Cloud



# The DMEG was designed for

◆ Researchers

*Sothearath Seang,  
Eurodoc*



◆ Trainers

*Dr Patrícia Miranda,  
ICS-ULisboa*





# CESSDA DMEG

Trainer's perspective

*Patrícia Miranda | APIS, ICS-ULisboa*

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# Training Workshop on DMEG in ICS-ULisboa

- ◊ The CESSDA [Data Management Expert Guide](#) (DMEG) is particularly important in research data management, so we organized a [training workshop](#) in Institute of Social Sciences (University of Lisbon) in November 2019 to promote this tool.
- ◊ We had already participated in some train-the-trainer events, so we could use some materials provided in the training workshop held in Athens “CESSDA Train the Trainers Workshop 2019”.

# DMEG and TTT package

## Why DMEG is so important for researchers?

- ◊ DMEG helps researchers to develop their data management plans and shows them how to make their research data FAIR (Findable, Accessible, Interoperable and Reusable).
- ◊ It is important to explore the research data lifecycle, so that DMEG and DMP (Data Management Plan) can be understood as crucial instruments by social science researchers.

## Valuable tool for trainers:

- ◊ Access <https://www.cessda.eu/Training/Training-Resources/Library/Training-Packages/Train-the-Trainers>
- ◊ **The Train-the-Trainers (TTT)** package contains different materials that trainers can use in developing and giving Research Data Management training for (social science) researchers.

# Archive & Publish



*Archiving and publishing your data properly is at the core of making your data FAIR.*

It is crucial that trainers show researchers how to **Archive and Publish** the data *in such a way that others can properly access, understand, use and cite them.*

Archive &  
Publish

# Archiving & Publishing

- ◊ **Archiving:** for future reference

Store the data in a suitable format with adequate documentation (metadata, etc.) and keep data safe for the long-term



- ◊ **Publishing:** for high-quality data with a potential for reuse

Publicly disclose your research data... to make data findable, accessible (at least the metadata), interoperable (containing basic *machine actionable* metadata) and reusable

...increase  
the value  
of research  
data

*Citing your data*

*Licensing your data*

*Access categories*

Publishing  
with **CESSDA**  
Archives

Featured Resource

## Data Management Expert Guide

Put social scientists like yourself at the heart of making their research data findable, understandable, sustainably accessible and reusable



# CESSDA DMEG

User's perspective  
PhD Candidate / Junior Researcher

*Sothearath Seang | Eurodoc Open Science Ambassador*

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@SotheSeang

# Description of my research

- ◊ Field of research: economics – local currencies
- ◊ Data collected: survey data – qualitative data
- ◊ Data produced: figures, codes, estimation results
- ◊ Complementary data used for calibration: public data from the national statistics institute
- ◊ DMP created prior to the study: some dark spots to be filled



# Challenges in creating the DMP

- ◊ **DMPOnline template from DCC**
- ◊ **Archiving and publishing**
  - ◊ Long term preservation plan
  - ◊ Assessment of reuse potential
  - ◊ Data publishing route pros and cons
  - ◊ Data promotion by repositories

# Lack of awareness among researchers

- ◊ DMEG would be a crucial help for PhD candidates and junior researchers in improving their research process in general
- ◊ Potential hurdles to Open Access / Data: thesis supervisors
- ◊ Local solution: top-down approach – directives and incentives must come from above

# What is the importance of a DMP?



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# How does the DMEG help researchers?



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# Tailoring your own DMP, what is the main challenge?



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# What would you have done differently knowing about the DMEG at the start of your research?



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# Thank you for your attention!

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