



# Writing a good Data Management Plan (DMP): A workshop

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# Session plan

RDM concepts  
and terms

15:00 [1]

Data manage-  
ment planning  
+ Task 1

30:00 [2]

Demo of  
DMPonline tool

15:00 [3]

Task 2:  
Try writing  
a DMP

30:00 [4]

Part one:

# RDM CONCEPTS AND TERMINOLOGY

RDM helps to preserve and protect the data behind scientific (research) discoveries and claims

RDM is a  
quality issue



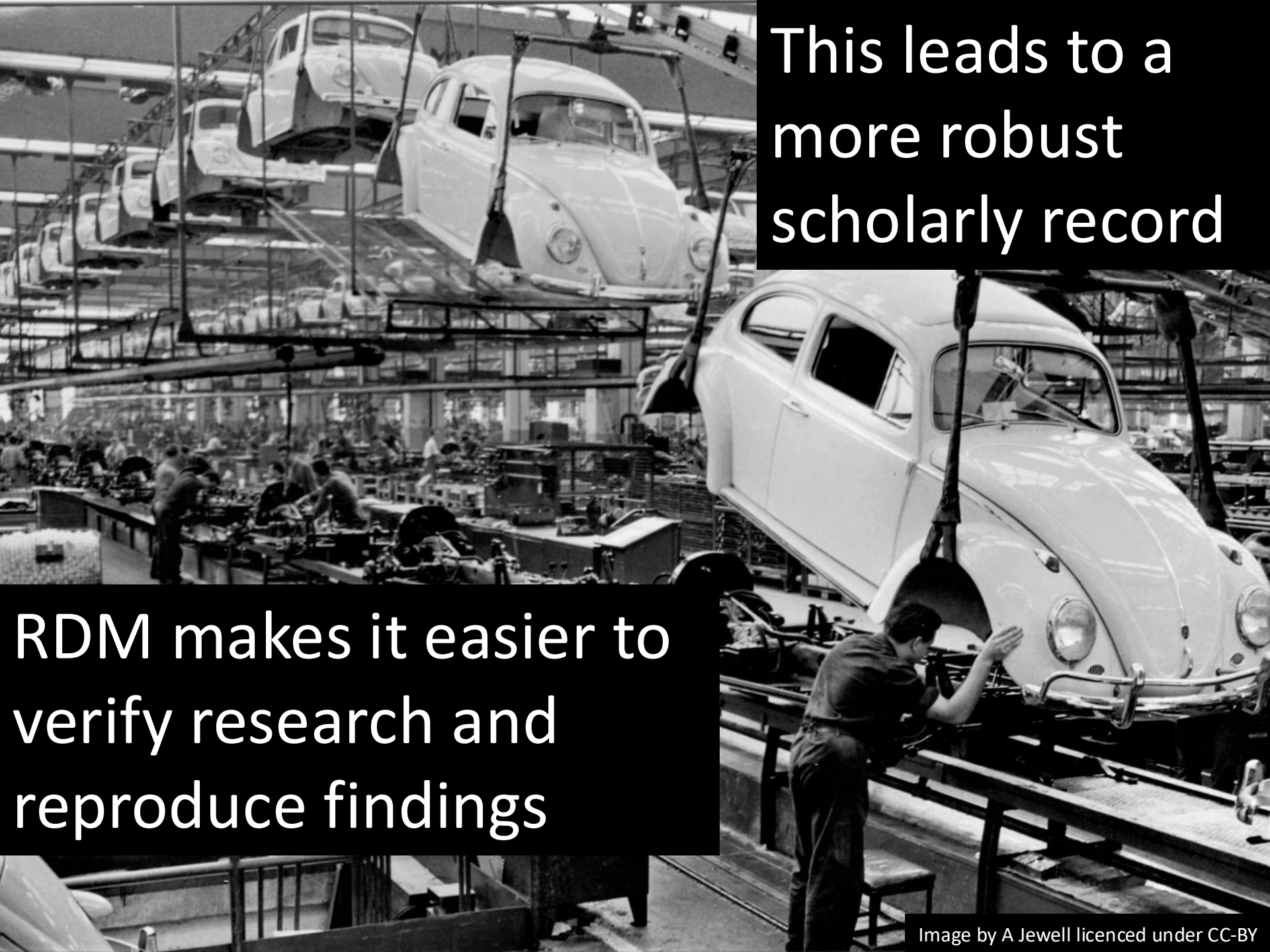
RDM leads to  
increased  
transparency  
of the research  
process

Research data

Code / scripts

Methods

Documentation



This leads to a  
more robust  
scholarly record

RDM makes it easier to  
verify research and  
reproduce findings

RDM and sharing  
(anonymised) research  
data can lead to making  
more progress as  
a research community  
collectively



# Common types of research data

Survey data

Interview data

Recordings

Transcriptions

Tabular data

Photographs

Big, new, novel or  
voluminous data

Scientific measurements

Image data

Processed data

International macrodata

Census data

Code / scripts

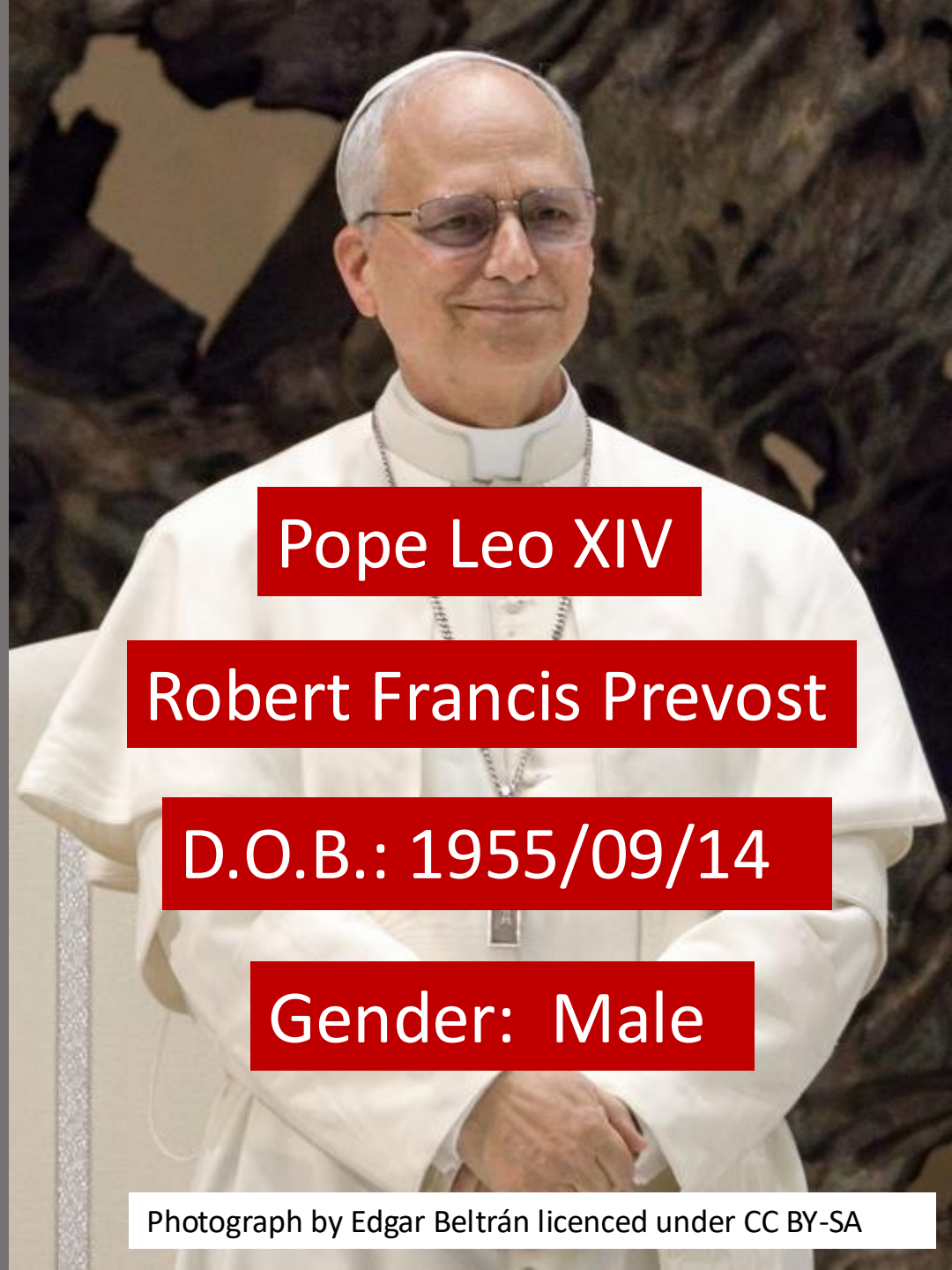
Project web site



A crowd of people is seen from behind, looking towards a large, glowing blue screen in a dark room. The screen displays the word "TERMINOLOGY" in a bright, neon-like font. Two vertical red light beams are visible on either side of the screen, and a thin wire hangs across the top of the frame.

TERMINOLOGY

**Personal data** is information that relates to an identified or identifiable individual. GDPR applies to this type of data.



Pope Leo XIV

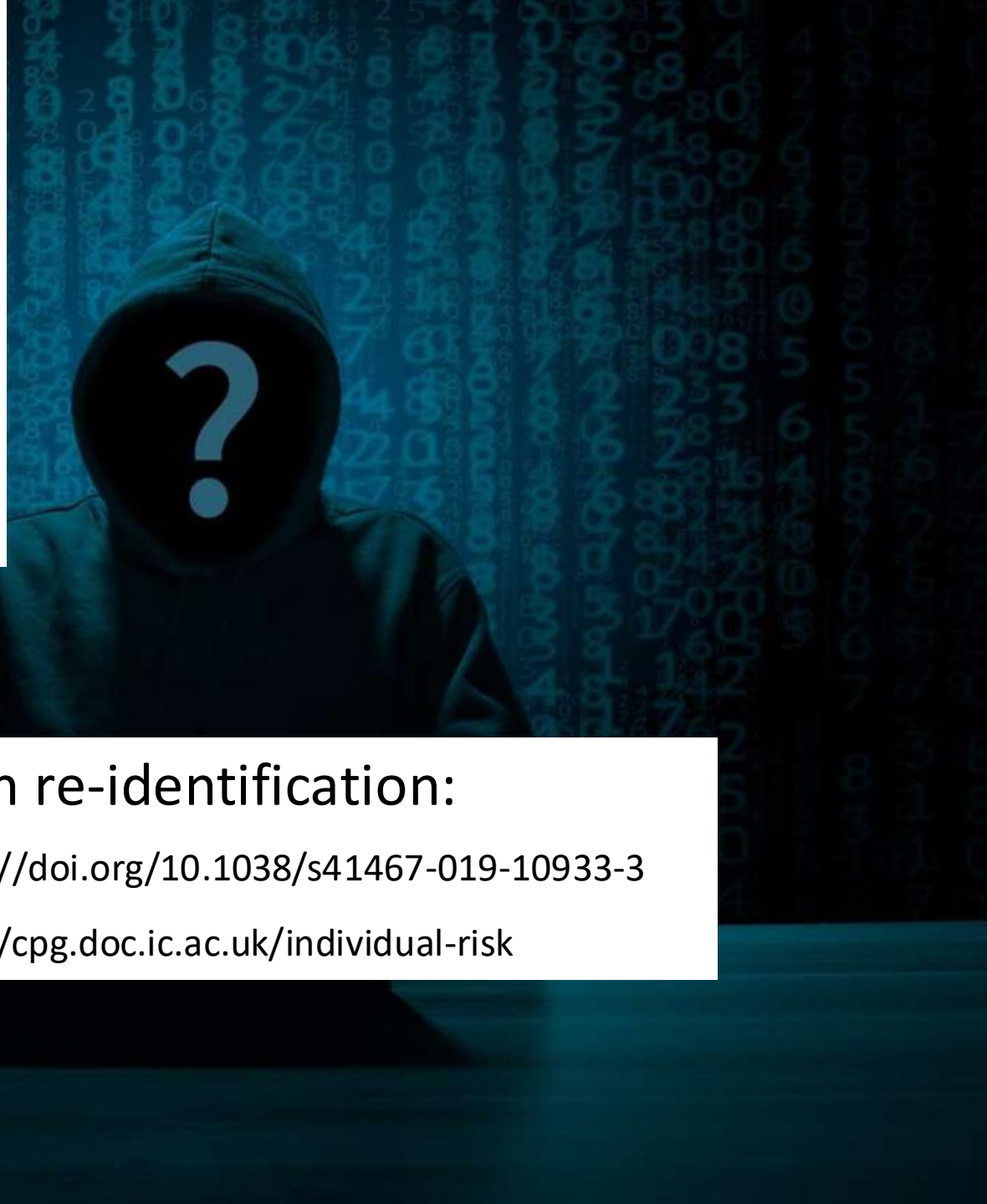
Robert Francis Prevost

D.O.B.: 1955/09/14

Gender: Male

**Anonymisation:**  
the art, or craft, of  
lowering or minimising  
the risk of individuals  
being identified from  
data

Source: <https://ukanon.net/>



**Research on re-identification:**

**Paper:** <https://doi.org/10.1038/s41467-019-10933-3>

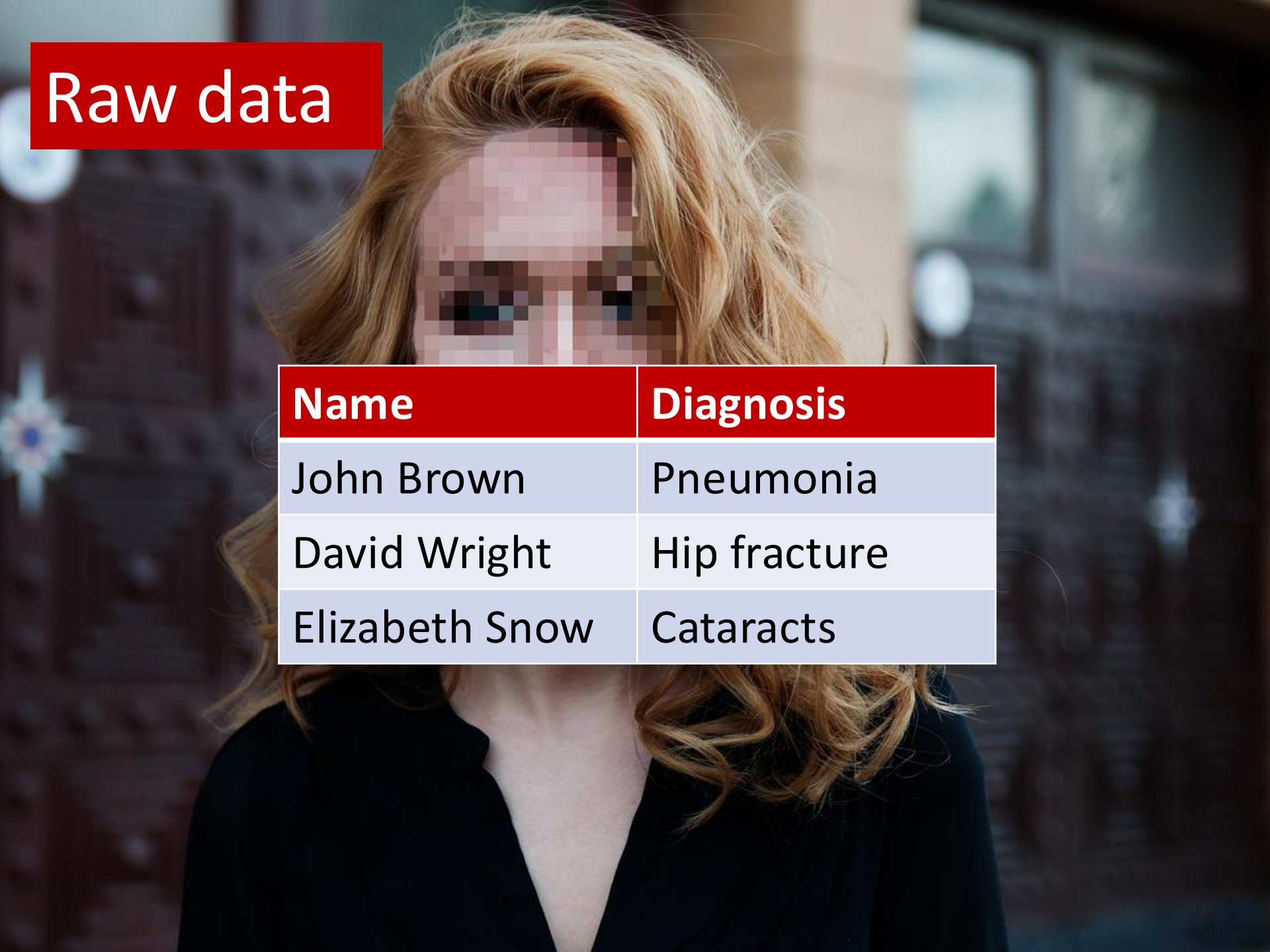
**Code:** <https://cpg.doc.ic.ac.uk/individual-risk>



# Pseudonymisation:

Refers to techniques that replace, remove or transform information that identifies people, and keep that information separate

# Raw data

A woman with blonde hair and a pixelated face is the background of the slide. She is wearing a dark blue or black top. The background is slightly out of focus, showing some architectural elements and lights.

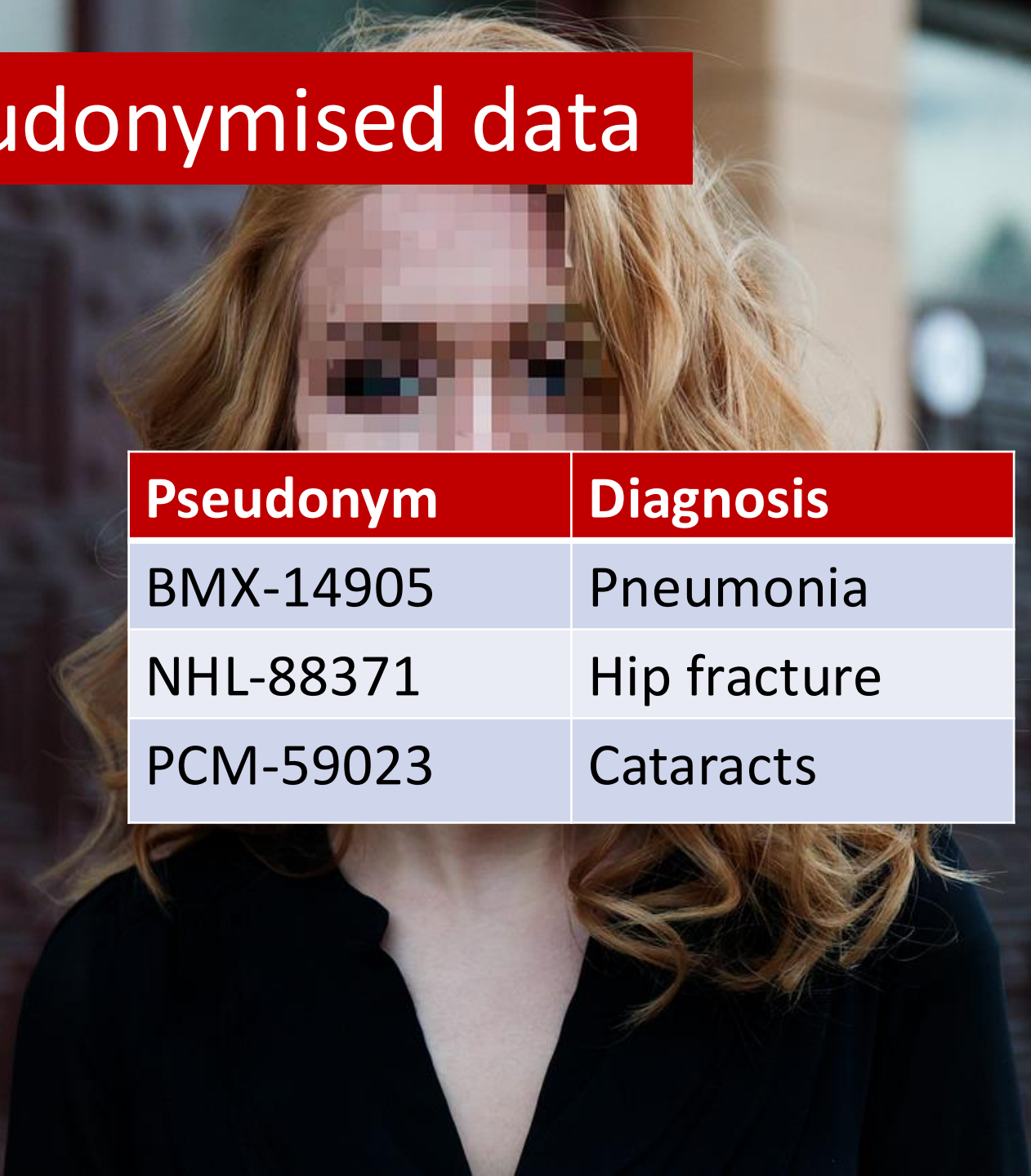
Name	Diagnosis
John Brown	Pneumonia
David Wright	Hip fracture
Elizabeth Snow	Cataracts

**Additional information:** to be kept separately in a secure environment



Name	Pseudonym
John Brown	BMX-14905
David Wright	NHL-88371
Elizabeth Snow	PCM-59023

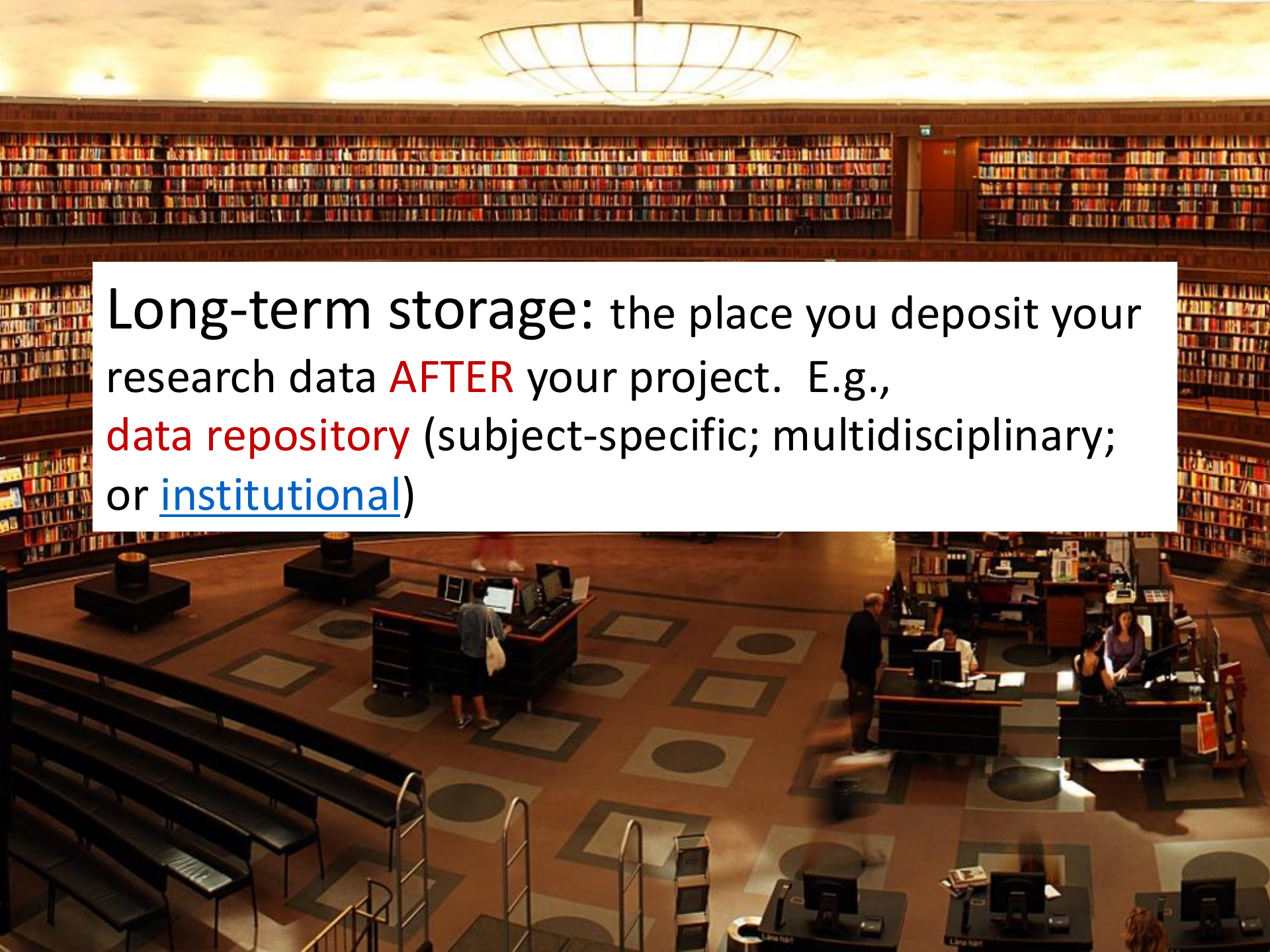
# Pseudonymised data



Pseudonym	Diagnosis
BMX-14905	Pneumonia
NHL-88371	Hip fracture
PCM-59023	Cataracts

**Short-term storage:** the place you keep your research data DURING your project. E.g., OneDrive for Business or Personal Research Storage (PRS)





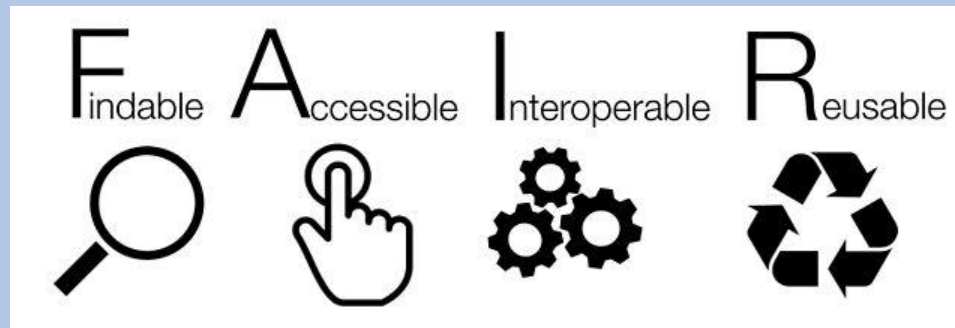
Long-term storage: the place you deposit your research data **AFTER** your project. E.g., **data repository** (subject-specific; multidisciplinary; or institutional)

# Data sharing has two meanings:

1. Post-research: sharing by publishing research data in a data repository
2. During research: sharing data with others



F.A.I.R. data is ...



The aim is to create **F.A.I.R. data**  
as opposed to unFAIR data

Part two:


DATA

MANAGEMENT


PLANNING

Plan to keep  
your sensitive  
data safe



A blue recycling bin with a white recycling symbol on its side. The bin is shown from a three-quarter perspective, casting a shadow on the ground. A white rectangular box is overlaid on the right side of the bin, containing the text.

Plan to maximise the  
re-use potential of  
your data



Plan to preserve  
your data for the  
long term

Photo by O Palsson licenced under CC-BY

# Structure of a DMP

Description of project

Detailed description of data

Data documentation

Sensitivity of data

Short-term storage of data

Long-term storage of data

# Describe research data in a table

Data created or collected	Data type	Data format	Volume or duration	Planned storage during project	Planned storage after project
Raw ethnographic field notes	Notebooks	Paper	n/a	Locked filing cabinet	No shared access
Fire detection still images	Digital images	PNG	Approximately 71,000 images. Requires 5.6 GB storage.	OneDrive for Business	Durham research data repository
Interviews	Sound recordings	MP3	20 interviews, ca. 30 minutes each	Personal Research Storage	Destroyed after transcription
DNA sequencing data	Genome sequence analysis files	Text	Approx half a million files. Requires 2 TB storage.	Hamilton supercomputer	Durham digital preservation system

## Example row in table

Data created	Data type	Data format	Volume or duration	Planned storage during project	Planned storage after project
Magma flows	X-ray images	TIFF format	50 TB storage per year for five years = 250 TB total storage	Shared Research Storage	Digital Preservation System**

\*\*In future, the University may provide this option for researchers

Task one:

DESCRIBE YOUR  
RESEARCH DATA IN A  
TABLE

# Structure of a DMP

~~Description of project~~

~~Detailed description of data~~

Data documentation

Sensitivity of data

Short-term storage of data

Long-term storage of data



# Documentation of data

README file

Data processing steps

Consent form etc.

Levels of metadata

Metadata standards

# Sensitivity of data

(from  
least to most sensitive)

Non-personal data (least sensitive)

Anonymised data

Pseudonymised data (GDPR applies)

Personal data

## Special categories of personal data:

race	genetic data
ethnic origin	biometric data
political opinions	health data
religious or philosophical beliefs	sex life
trade union membership	sexual orientation

Secret data (most sensitive)

# Research and GDPR Decision Tool

To help staff and students navigate through guidance on data protection.

A rectangular button with a light gray background and a thin black border, containing the word "Start" in a dark gray sans-serif font.

Start

[https://libguides.durham.ac.uk/open\\_research/tools](https://libguides.durham.ac.uk/open_research/tools)

# Short-term storage options

OneDrive for Business	Personal Research Storage	Shared Research Storage
1 TB encrypted cloud storage	1 TB storage on site (not encrypted)	Intended for funded research groups
Can be used for <b>slightly</b> sensitive data	Can be used for <b>highly</b> sensitive data	Can be used for <b>highly</b> sensitive data
Easy to share with <i>external</i> collaborators	Complicated to share with <i>external</i> collaborators	Complicated to share with <i>external</i> collaborators
Automatic replication	Storage tier: Silver 3 Performance: Silver Protection level: 3	Different storage tiers available
Managed with file explorer	Managed with CIS Storage Manager	Managed with CIS Storage Manager

# Long-term storage options

[Guidance on choosing a repository.](#)

Subject-specific repository	Multi-disciplinary repository	University data repository
The best option if you can find a suitable repository.	Zenodo	<a href="https://collections.durham.ac.uk">collections.durham.ac.uk</a>
Search for a repository using: <a href="#">FAIRsharing website</a>	Open Science Framework	Personalised support for all research-active staff and students
e.g., <a href="#">ReShare</a> for economic, social and population data	Dryad	
	Mendeley	
	figshare	700 GB storage

# Exceptions to sharing

Ethical reasons

Legal reasons

Commercial reasons



# Do's and don'ts of writing a good DMP

DO	DON'T
Include as much detail as possible about your plans. Name specific tools / software you will use.	Assume your DMP reviewer knows what you mean. Explain what you mean in detail.
Use a DMP template.	Invent a new format for a DMP.
Describe all the research data you will create, preferably in a table.	Confuse research data with other research outputs. Focus on research data only.
Ensure all parts of your DMP work together coherently.	Contradict yourself. Skim your draft DMP in order to eliminate contradictions.
Try to answer all questions in your DMP template.	Be afraid to ask for help. This will exist both within institutions, and via national / European support organisations

Part three:

# **DEMONSTRATION OF DMPonline**



# 1. Choose funder template

# 2. Write detailed plan

# 3. Share plan

Public DMPs

Public DMPs are plans created using funder guidelines.



Project Title

Measuring understanding of biological data models.	University of Manchester Generic Template	University of Manchester	Yo Yehudi	
Charters for Better Work Better Lives: An Indian Partner Network	University of Manchester Generic Template	University of Manchester	Wendy Olsen	
Pentoxifylline for sepsis in preterm infants	Data management ZonMw-template 2019	Other	sinno simons	
Identifying Mechanisms of Failure of Cartilage Repair Surgery	University of Manchester Generic Template	University of Manchester	Gwenllian Tawy	
Simulating tourism water consumption with stakeholders (SIMTWIST)	Data Management Plan NWO (English)	Wageningen University and Research Centre (Netherlands)	Bas Amelung	

# Business for Peace: Conflict Prevention and the Private Sector in South and Central Asia

Project Details

Plan overview

Write Plan

Share

Download

expand all | collapse all

16/16 answered

Data Summary (1 / 1)

Data Collection (1 / 1)

Short-term Data Storage (2 / 2)

# Guidance

### 3. How will the data be stored in the short term?

**B**

*I*

Data collected by commissioned projects will be stored in secure locations - paper datasets will be stored in locked filing cabinets in secure offices, and electronic data on encrypted harddrives. Electronic data will also be backed up to Durham University's GDPR-compliant Box cloud.

Save

Answered 1 month ago by [nicholas.syrotiuk@durham.ac.uk](#)

Guidance

Comments

AHRC

DCC

DU

Storage & security

Please familiarise yourself with the University's [information security](#) web pages. In particular you should become familiar with Durham's [Information Security Classssification and Handling Standard](#).

If you are planning to use **Shared Research Storage (SRS)**, please include an estimate for research data storage costs in your grant



Durham  
University

Writing a good DMP

Durham data management policy



# Durham examples

## My Dashboard

The table below lists the plans that you have created, and that have been shared with you.

Project title	Template
My DMP using ESRC template	ESRC Template

Create plan

## Durham University's Plans

The table below lists the plans that users at your organisation have created and shared within your organisation. This allows you to download a PDF and view their plans as sample research data.

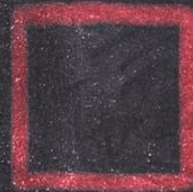
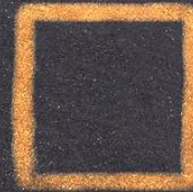


Search

Project title	Template	Owner	Updated
Writing a good data management plan (...)	ESRC Template	nicholas.syrotiuk@durham.ac.uk	09-01-2023
'Wealthmaxxing your way out of loneli...	DU Standard RDM Template: Version one	fqmf28@durham.ac.uk	31-01-2022
Understanding Popular Xenophobia in C...	AHRC Data Management Plan	jonathan.saha@durham.ac.uk	18-08-2022
Treaty Scrutiny: The Role of Parliame...	ESRC Template	holger.hestermeyer@kcl.ac.uk	02-11-2022
Transparency and Judicial Review: An ...	DU Standard RDM Template: Version one	elizabeth.a.o'loughlin@durham.ac.uk	11-10-2022
Translation and (Counter)Espionage: A...	AHRC Data Management Plan	sergey.tyulenev@durham.ac.uk	07-03-2022

D M P

R E V I E W



# Live Demonstration



Part four: **Try writing a**

**DATA**

**MANAGEMENT**

**PLAN (Task 2)**

Plan to make data work for you

D  
m  
re

# dmponline.dcc.ac.uk

[Sign in](#)[Create account](#)[Forgot password?](#)☐ Remember email[Sign in](#)

- or -

[Sign in with your institutional credentials](#)

DMPonline helps you to create, review, and share data management plans that meet institutional and funder requirements. It is provided by the Digital Curation Centre (DCC).



59,972 Users



314 Organisations



65,212 Plans



89 Countries

# Library Research Support

## Library Research Support: Open Research: Research Data Management

This guide is intended to provide advice and support on open access research, including guidance around Durham Research Online (DRO), open access publishing, research data management and related topics.

[Home](#)[What is Open Access? ▾](#)[University & Funder Policies ▾](#)[Research Publications Policy & Rights Retention](#)[Paying for Open Access](#)[Publisher Deals](#)[Durham Research Online \(DRO\)](#)[REF OA ▾](#)[PGRs & eTheses](#)[Research Data Management ▾](#)[Open Access Week 2023](#)[Monthly Activity & News](#)[SafePod: Secure Data Access](#)

### What do we mean by Research Data Management?

Our researchers create, collect and measure large amounts of research data every day, and some of this data is used to support our

[https://libguides.durham.ac.uk/open\\_research/rdm](https://libguides.durham.ac.uk/open_research/rdm)

spirit of open scholarship, researchers are expected to demonstrate they are working transparently and reproducibly. Researcher

# Durham Research Methods Café

Every other Wednesday of term  
All PGR/PGT students and DU staff Welcome

**Wednesday 19<sup>th</sup> November 2025, 1130-1300**

Conversation Topic: Navigating GDPR protocols for data access and use, and handling missing data.

This session will explore practical strategies for navigating GDPR protocols when accessing and using data in research, alongside approaches for managing and analysing missing data. Join us to share experiences, challenges, and tips for maintaining data integrity and compliance throughout the research process.

Free Coffee/Tea and refreshments!

This meeting is in person.

Join our online community at the Café MS Teams Channel

Location:

First Floor, Arthur Holmes  
Building: left of Calman  
Learning Centre,  
upstairs, turn left.  
Door signed 'DRMC/Nine  
DTP'.



Co-hosts:

- Advanced Research Computing (ARC),
- Durham Research Methods Centre (DRMC)
- Research Data Management Service



# Thank you

Nicholas Syrotiuk

 [@durhamrldm.bsky.social](https://bsky.app/profile/durhamrldm)



Register your attendance.

## Writing a Good Data Management Plan (in-person)

10/12/2025



**4194118146**

# References:

CESSDA Training Team (2017 - 2022). CESSDA Data Management Expert Guide. Bergen, Norway: CESSDA ERIC. DOI: <http://doi.org/10.5281/zenodo.3820472>

Information Commissioner's Office. <https://ico.org.uk/>

Rocher, L., Hendrickx, J.M. & de Montjoye, YA (2019): "Estimating the success of re-identifications in incomplete datasets using generative models." Nat Commun 10, 3069. DOI: <https://doi.org/10.1038/s41467-019-10933-3>

UK Research and Innovation (2018): "Guidance on best practice in the management of research data." UKRI web site. <https://www.ukri.org/>

Wilkinson, M. et al. (2016): "The F.A.I.R. Guiding Principles for scientific data management and stewardship." Sci Data 3, 160018. DOI: <http://doi.org/10.1038/sdata.2016.18>

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