

The development of RDM policy at Wageningen University & Research

Best practices as a framework

LIBER|Patras|July|2017|Jacqueline Ringersma



Wageningen University & Research



Wageningen University & Research

University (food, environment, plant, animal, social)

- ~ 10.000 students
- ~ 2.500 employees (scientific: xx)
- Yearly ~ 250 PhD student graduations



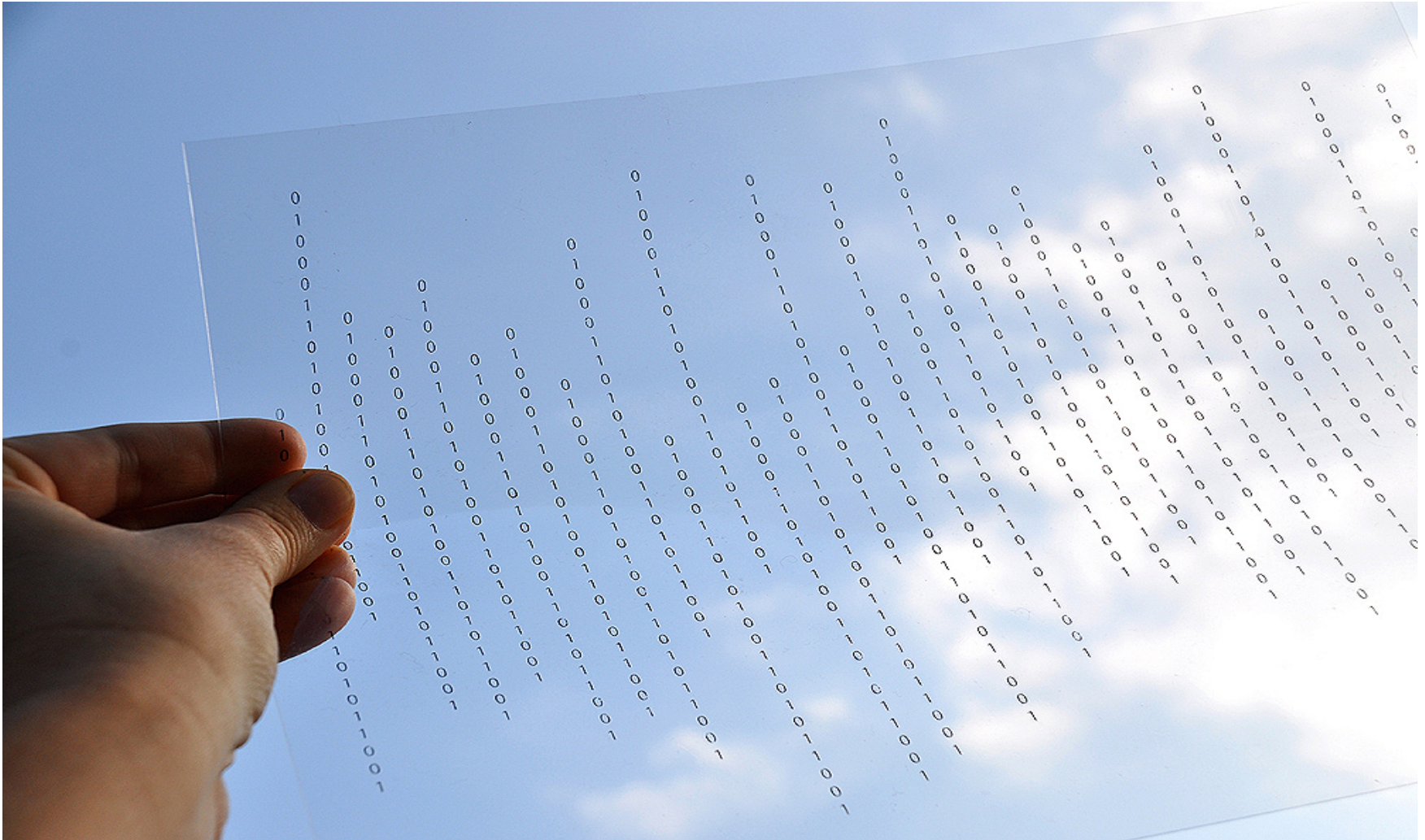
Wageningen University & Research

Research (food, environment, plant, animal, social)

- ~ 2.500 employees (scientific: xx)
- National research institutes



RDM policy history



RDM policy history

- 2010: first discussion on data between researchers, graduate schools and library
- 2014: first RDM policy: all PhD students and University chairs must have a Data Management Plan
- 2015: RDM services by Library, IT, legal and archive
- 2016: Evaluation of RDM behaviour
- 2017: New policy



RDM policy history

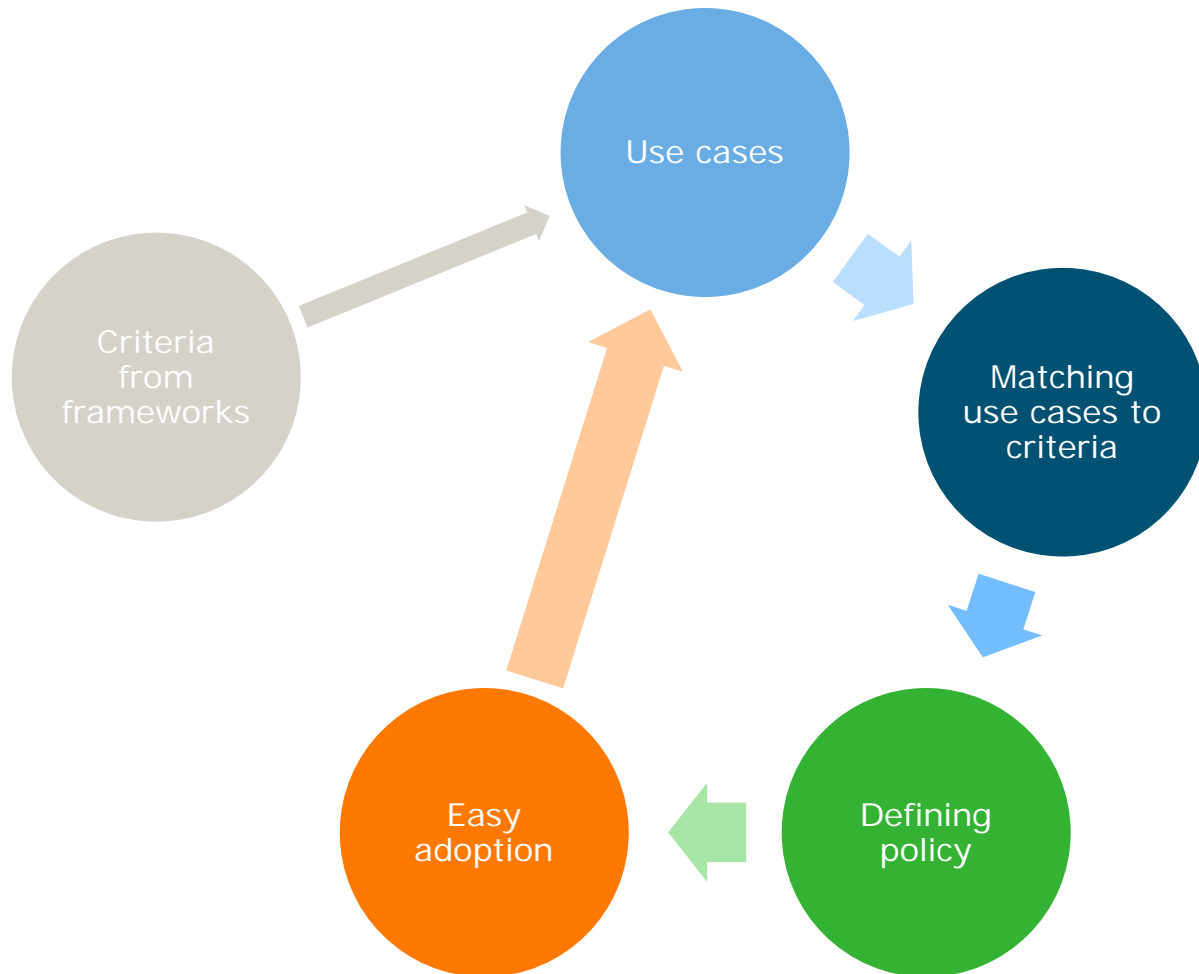
Dean of Science asked Taskforce RDM

Make a proposal for a new, more advanced policy for Data Storage, Data Archiving and Data Registration

- National frameworks
- Diversity in the organisation
- Best practices







National frameworks

- National Code of Conduct for Scientific Practice
- Archives act
- FAIR principles

Practice	Criteria
Data storage	The storage solution allows the encryption of sensitive data files.
	The stored data is protected against physical access and disasters (e.g. fire), and has an emergency power system.
	The storage solution enables the sharing of datafiles.
Data archiving	The archive provides datasets with persistent identifiers.
	The archive provides metadata fields so that datasets can be described and found.
	The archive has a back-up and recovery system in place.
Data registration	The registration system allows the establishing of links between articles and datasets.
	It is possible to set up links between the datasets and other organizational records.
	It is possible to provide URLs to the location of the datasets.

Selecting use cases



5 domains (food, plant, social, environment, animal)

University & Research

Six dimensions

Size

Legal complexity

Confidentiality level

Lifespan

Value

Number of disciplines



Interviews

Questions were to assess compatibility with National Frameworks:

Four categories:

General on project and data handling

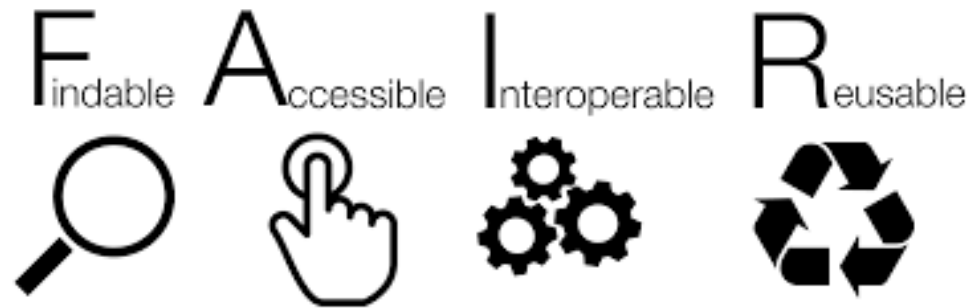
Storage during and archiving after research

Accessibility

RDM support

Interviews

Questions were to assess compatibility with National Frameworks, e.g.:



- Is it possible for other people to access your data after your research is finished? If so, how
- What kind of documentation do you add to your data?

Results: Data storage

Data storage:

All cases matched the criteria defined

Most use storage services offered by IT service

Some have local servers

Data archiving:

Two out of five archived data in sustainable/trusted archives

One out of five

Results: Data archiving

Data archiving:

Two out of five archived data in sustainable/trusted domain specific archives

Others only archive when journal requires this





Occasionally institutional servers used for archiving

Results: Data registration

Data registration:

Only one use case consistently registered their data sets in the institutional repository.

Record number	523236
Title	H3K36me3 ChIP-seq
Author(s)	Pajoro, A. ; Immink, G.H.
Department(s)	Laboratory of Molecular Biology PRI BIOS Plant Development Systems EPS
Publication type	Dataset
Publication year	2017
Keyword(s)	Arabidopsis thaliana - GSE85279
Abstract	Plants developed a plasticity to environmental conditions, such as temperature, that allows their adaptation. A change in ambient temperature leads to changes in the transcriptome in plants, such as the production of different splicing isoforms. Here we study temperature induced alternative splicing events in <i>Arabidopsis thaliana</i> wild-type and two epigenetic mutants, <i>sdg8-2</i> and <i>sdg26-1</i> using an RNA-seq approach.
Comments	There are no comments yet. You can post the first one! Post a comment

[wijzigen](#)
[View XML](#)
 [Download full text](#)

[Export citation](#)

[Pajoro, A.](#)

[Immink, G.H.](#)

New RDM policy

Dean of Science asked Taskforce RDM

Make a proposal for a new, more advanced policy for Data Storage, Data Archiving and Data Registration

- National frameworks
- Diversity in the organisation
- Best practices

Brief on the new RDM policy

All Wageningen University & Research researchers should:

During research:

Store their data on WUR servers, or on servers approved by IT (RDM services)

After research:

Archive all data underlying a publication in a trusted archive, which meets FAIR criteria

Register their data in the institutional repository

Advantages of engaging researchers

It created RDM awareness!

Build on what is already done

- It avoids building or buying new infrastructure

- It meets researchers workflows, and practices

- It facilitates adoption

Less rules, better services, happy clients/researchers



*I share my tree research data
online at WUR Library*

Wageningen University & Research - Library
Accelerate your research

www.wur.eu/library



WAGENINGEN
UNIVERSITY & RESEARCH



WAGENINGEN
UNIVERSITY & RESEARCH