Research Data Management: The Sweets & Carrots of Open Science

Everything you always wanted to know, but were afraid to ask
VU Library, Amsterdam - Seminar on RDM - 22-11--2017
What to expect?

• General introduction to RDM
• The National Coordination Point Research Data Management in the Netherlands (LCRDM)
• Some examples to get started and keep going
How about You & Research Data Management?
Open Data requirements in H2020

RESEARCH DATA - OPEN BY DEFAULT

FAIR DATA!

Accessible
Interoperable

Findable
Re-usable

HORIZON 2020 GRANTEEES ARE REQUIRED

take measures to ensure open access to the data underlying their scientific publications
provide open access to any other research data of their choice

Horizon 2020 grantees are encouraged to also share datasets beyond publication

PROJECTS MUST HAVE

DATA MANAGEMENT PLAN (DMP)

Landelijk Coördinatiepunt Research Data Management
Open Data requirement in NWO

To make data that emerges from NWO-funded research as accessible and reusable as possible, NWO has decided to implement the data management policy in all NWO funding instruments with effect from 1 October 2016.
Journals require supporting data...

http://www.nature.com/authors/policies/availability.html
So, what do you think?
These new requirements sometimes meet with immediate reactions

This is not my priority

People will steal my results!

My data is not interesting

The person who had the data left

Data management is a waste of time (and money)

It would take me 5 years to find all my data!
The EU General Data Protection Regulation (GDPR) is the most important change in data privacy regulation in 20 years - we're here to make sure you're prepared.
Or even closer to home...

Research Data Management policy
Faculty of Social Sciences

Reader’s guide
This memorandum describes the data management policy of the Faculty of Social Sciences (FSW) at Vrije Universiteit Amsterdam (VU). It provides a practical and specific application of the more general policy framework and guidelines that apply, such as the VU policy memo on “Research Data Management” (1), the VSNU’s Netherlands Code of Conduct on Scientific Practice (2), the Standard Evaluation Protocol (SEP 2015-2021) (3), and the Personal Data Protection Act (8). This memorandum should be read as an extension of these guidelines, considering that these more general policy frameworks and guidelines apply in full to FSW research.
No sticks but carrots
Definition of RDM

The whole process by which the required data is acquired, validated, stored, protected, and processed, and by which its accessibility, reliability, and timeliness is ensured to satisfy the needs of the data users, within the framework of the research code of the organization and the law.

Security & Privacy
Planning & Logistics
Why RDM? - The data

• Research becomes more and more data intensive
• The amount of data grows rapidly
• Data become more and more complex
Why RDM? – The Research

- Reproducibility: documenting research & permanent access to data:
- Reuse of data: efficiency & integrity
Why RDM? - Society

- **National Plan Open Science**: Open Access; Reuse of Data; Evaluation & stimulation of Data intensive Research; Support of Researchers

- **European Open Science Cloud**: FAIR data; Data Stewardship; infrastructure to support & develop OS & Open innovation in Europe & beyond.
What was happening?

Many RDM initiatives and collaborations already underway at the various universities and research institutions in the Netherlands, but:

- Fragmentation and overlap in RDM activities and approaches
- No coherence in RDM policy development, research support and service development
- Re-inventing the wheel; not taking advantage of expertise and experiences within the own sector and between various stakeholders (inside and outside the institution)
- No view on current state of RDM in NL
Why national coordination?

Support the most effective use of data in research & education by strengthening the knowledge pooling and knowledge sharing on all aspects of research data management for the benefit of:

- Research
- Researcher and research community
- Research institution
- Research funder
Approach National coordination

To enhance and support:

- Collaboration
- Coordination
- Knowledge Sharing

on RDM policy and practice at a national level

- with an international link
- in synchronisation with all stakeholders involved
- making use of existing tools and initiatives
The goal:

• Obtaining a good overview of existing initiatives;
• Sharing successful approaches and results and promoting their re-use;
• Identifying gaps, putting them on the agenda and preparing administrative decisions.

To: Help Research Supporters to Support Researchers with their Research Data Management Before, During, After the Research

Landelijk Coördinatiepunt Research Data Management
The Absolute Necessity for RDM
Good RDM leads to data which is:

- Findable
- Accessible
- Interoperable
- Reusable

Open where possible, closed if necessary

Open access
open research
open data

Open support
LCRDM approach

Quickscan (2015-2016): 80 plus interviews with RDM experts and stakeholders

Roadmap (Dec. 2015)

5 focal points

Each focal point → working group

- Legal Issues & Ownership
- Facilities & Data Infrastructure
- Financial Aspects of RDM
- Research Support & Advise
- Engagement
Working Groups: How do they work?

- One or two Chairs
- Working Agenda with short term, mid term, longer term goals and concrete topics to work on
- Representatives from all stakeholders
  - Universities
  - University Medical Centers
  - Research Institutions KNAW, NWO, TNO
  - Financers
  - University of Applied Sciences

Mission LCRDM

To prepare, facilitate and monitor the development and implementation of RDM Policy for scientific research in the Netherlands, in close cooperation with the professional field, and to ensure the exchange of knowledge and experience on a national level so that the Netherlands can achieve an efficient and effective development and implementation of research data management.
Working Groups

With VU colleagues:
Maurice Vanderfeesten; Jolien Scholten; Mark Bruyneel; Petra Tolen; Tom Paffen; Myrte Dujardin

Research Support & Advise

Engagement

Legal Aspects & Ownership

Financial Aspects

Facilities & Data Infrastructure
Het belang van Research Data Management

"Laten we gaan voor bruikbaarheid."
Het roet van het produkt wordt weggepraat door het handigheid werk.

"We gebruiken het coördinatiepunt om te verbinden en te coördineren."

2018 en verder

producten
onder de aandacht
brengen
& visieplan
maken

standardiseren en implementeren

"Onderzoekers helpen om hun werk goed te doen."

Vaak via onderzoeks- ondersteuners

Platform om kennis te delen

"Hoe krijgen we samenhaling?"

Onderzoekers

Communities

Andere gremia

Ambassadeur

Peers

Producten uit werkgroepen

Lcrdm

Bestuurslaag

In je organisatie

Netwerkbijeenkomst 8-6-2017

Landelijk Coördinatiepunt Research Data Management
Results 15-17: Community Building

- Support organisation (SURF)
- Working groups in place: 72 members, dealing with 17 topics on 5 RDM aspects, creating over 40 products: inventories, advices, tools, models, reference cards etc. to be delivered in 2016-2017
- Visible, knowledgeable and efficient RDM community has been build, under the LCRDM umbrella
- Working group members benefit from two way relevance:
  - profiling & bringing in expertise from own institution
  - using expertise from outside into own institution
Products

- GDPR Maturity Model
- Wiki Inventory RDM Training
- Reference Cards – Privacy: Why, How, What?
- GDPR Internet Consultation – for VSNU
- GDPR Advise for Practical Approach
- Review VSNU Code of conduct use of personal data in scientific research
- Conference Publication Symposium
- Designing & Shaping Open Science (2016)
- Inventory DMP Reviewers (via Questionnary)
- Position Paper Incentives
- Legal Contract Templates
- Wiki Expert Network (Ethical/Legal)
- Document on DMP Criteria
- Position Paper Financial Aspects of RDM
- Round Table Financers & Governance
- RDM Training MOOC
- Position Paper FAIR data
- Wiki – Overview Common Elements Curriculae
- Advise on Profiles Related Training Portfolio’s
- Reference Architecture Discussion Model
- Information Material Incentives
- RDM Status Measurement – Interviews

- Advisory on Software Sustainability
- Overview Use Cases Incentives
- Inventory FAIRness
- Data Repositories in NL (TU Delft)

- Decision Tree Privacy Related Research & Data Sharing
- Overview RDM Requirements Funders
- Inventory DMP Templates
- Template Informed Consent & Example
- Privacy by Design Guidance
- Services and Facilities Catalogue
- Advise DMP Tooling
- Wiki RDM Glossary
- Inventory DMP Support (Tips & Trends)
- Engagement Meetings
- Mind Map Shades of Open
- "Inventory DMP Tools"
What’s in it for me?
Een landelijke aanpak van research data management

Werkgroepen
Faciliteiten & datainfrastructuur
Juridische aspecten & zeggenschap
Financiële aspecten
Onderzoeksondersteuning & advies
Bewustwording / engagement

RDM wiki & platform
Blog

Nieuws
07 NOV Consultatieversie Herzienne
VSNU Gedragscode
Persoonlijke Data beschikbaar
07 NOV 2e Netwerkbijeenkomst
Working on Data Stewardship?
Meet your Peers! 1 december in Utrecht
09 OKT 24 en 25 oktober
consultatierondes VSNU
Gedragscode
Persoonsgegevens

Aanmelden nieuwsbrief

Landelijk Coördinatiepunt Research Data Management
Hoe gaan we om met de explosie van data
in onderzoek en onderwijs in Nederland?
Hoe staan we alles zorgvuldig op zodat het
toegankelijk blijft voor hergebruik, ook op
lange termijn? Hoe borgen we
wetenschappelijke integriteit?

Het Landelijk Coördinatiepunt Research
Data Management faciliteert een landelijke
aanpak van research datamanagement. De
focus ligt op vijf kernvraagstukken.
Some examples

https://www.lcrdm.nl/rdm-praktisch
Research Data is like Candy
RDM makes it more attractive
To stay in touch ...

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This presentation contains elements of LCRDM presentations of Jacquelijn Ringersma, Henk van den Hoogen, Kees den Heijer, Annemie Mordant, Marta Teperek