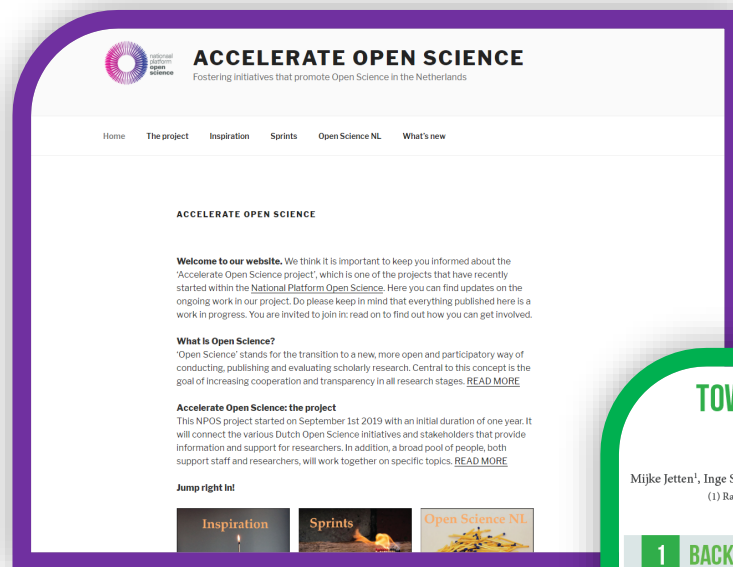




Fostering initiatives that promote Open Science and Professionalising Data Stewardship

Partnerships Meetup Lygature, October 2019



Melanie Imming, SURF



@melimming

Open Science?

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OPEN ACCESS

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*as open as possible,
as closed as necessary!*

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ACCELERATE OPEN SCIENCE

Fostering initiatives that promote
Open Science in the Netherlands



Professionalisation of Open
Science and Data Stewardship
Training and Education



nationaal platform
open science





Why?

- Coordination and promotion;
- Acceleration through sharing knowledge and expertise;
- To ensure progress on ambitions and keep an eye on developments.

Activiteiten tbv bewustzijn, kennis, vaardigheden, professionele inzet

Studenten

Wetenschappelijk
personeel

Ondersteuners
(oa Datastewards)

Beleidsmedewerkers

Diverse OS- en datatrainingen

Trainingen
e-learning

Profiel-
schetsen DS

-

Diverse OS- en datastimulerings- en ondersteuningsactiviteiten

Plan voor afstemmen samenwerking NPOS-partijen reeds actief in OS en DS-trainingen

Plan voor versterking samenwerking stakeholderorganisaties mbt **tijdelijke** extra ondersteuning, opzet en aanbod van workshops, trainingen, instapmodules, informatievoorziening, bewustwording OS & DS.

Inventarisatie benodigde vaardigheden

Visie – actieplan voor HR-beleid
(oa profiel Datastewards)

Opleiding
professionals
Curriculum omvat
module OS & DS

HR-beleid voor open science- en datastewardship-
professionals

Structureel aanbod workshops/trainingen/ondersteuning tbv (actualisering van) basiskennis en -vaardigheden

Reeds
gaande

Op te
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NPOS
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en

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ACCELERATE OPEN SCIENCE

Fostering initiatives that promote Open Science in the Netherlands

To connect the various Dutch Open Science initiatives and stakeholders that provide information and support for researchers;

Started on September 1st 2019 with an initial duration of one year;



ACCELERATE OPEN SCIENCE

Fostering initiatives that promote Open Science in the Netherlands

- Improving the findability of information on Open Science by connecting the following websites: openscience.nl; openaccess.nl; research-software.nl; auteursrechten.nl;
- Widely shared and clear guidance on topics such as Open Access, FAIR data and PlanS;
- Broadly shared examples of proven concepts in the field of informing and supporting researchers;
- Collect and share best practices for researchers undertaking Open Science;
- Help with organizing Open Science meetings, cafés and other interactive sessions in a local level.



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Fostering initiatives that promote Open Science in the Netherlands

Initiatives we are working with (more to follow):

The [Research Software Community](#)

The [UKB](#) the Dutch consortium of university libraries and the National Library of The Netherlands;

The [PNN](#) PROMOVENDI NETWERK NEDERLAND: Representing the interests of PhD researchers in the Netherlands;

The [OSCNL](#) The Open Science Communities in the Netherlands;

The [LCRDM](#) The Netherlands Coordination Point Research Data Management;

The [VSNU](#) The Association of Universities in the Netherlands;

and the local University Open Science Coordinators.



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Jump right in!



Also:

-Open Science
Festival in 13 14
May at the WUR
in Wageningen;

-Working
together in
Sprints;



Professionalisation of Open Science and Data Stewardship Training and Education

1. Establishing an overview of competences and learning outcomes for data professionals, who support researchers with data stewardship in the context of open science.
2. Make an overview of existing materials and sources (websites, blogs, articles, course material) in the field of open science and data stewardship for training courses for data professionals, researchers and policy makers.



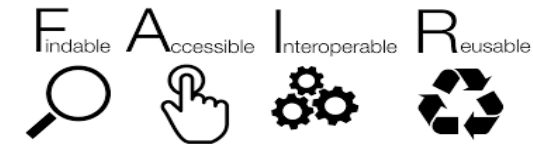
Professionalisation of Open Science and Data Stewardship Training and Education

Builds on the recently completed ZonMw data stewardship project;

Aligns with related projects, such as the LCRDM data stewardship project and the RDA-23 things project.

Introduction to the project

- Small Dutch **project** (Aug. '18 – Sep. '19), The Netherlands Organisation for Health Research and Development (ZonMw), with in-kind contributions
- **Aim:** professionalise the data steward function, with a focus on the implementation of FAIR
- **Context:**
 - Lack of sufficient and high-quality data stewardship expertise
 - Lack of consensus on what a data steward is and does (function profiles)
 - Lack of tailored education, incl. certification



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<https://zenodo.org/communities/nl-ds-pd-ls>

TOWARDS A COMMUNITY-ENDORSED DATA STEWARD DESCRIPTION FOR LIFESCIENCES

Mijke Jetten¹, Inge Slouwerhof¹, Salome Scholtens², Jasmin Böhmer³, Marije van der Geest², Christine Staiger⁴ & Celia W.G. van Gelder⁴

(1) Radboud University, (2) UMC Groningen, (3) UMC Utrecht, (4) DTL (Dutch Techcentre for Life Sciences)/ELIXIR-Netherlands

Contact: Mijke Jetten, m.jetten@ubn.ru.nl

1 BACKGROUND

To create FAIR data management, it is important to build sufficient, high-quality data steward expertise in organisations.

Based on an analysis of competency frameworks and initiatives (e.g. EOSCpilot, EDISON, Purdue and HANDS), this project aims to professionalise data stewardship, including a function description and training.



The outcomes of the project can be found at <https://zenodo.org/communities/nl-ds-pd-ls>.

2 RESULTS

This ZonMw project (Aug. '18 - Sept. '19) has delivered a function description for three data steward roles: policy, research and infrastructure.

For each data steward role, competence areas with tasks were defined, i.e.

1) policy/strategy, 2) compliance, 3) alignment with FAIR, 4) services, 5) infrastructure, 6) knowledge management, 7) network, and 8) data archiving. Table 1 shows a section of the matrices (full version via Zenodo). Tasks were translated into learning objectives based on Bloom (example shown in table 2).

In two workshops (June '19) with Dutch data stewards (± 60 participants), existing and desired training was mapped. These mappings are included in the final report.

3 RECOMMENDATIONS

- Embed data steward roles and competencies in a formal function profile including function levels (junior, senior), and add formal job evaluation and grading
- Add discipline-specific knowledge, skills and abilities to the function description
- Develop a self-assessment tool for data stewards to assess responsibilities, tasks and competencies, combined with navigating directions to training and materials
- Use the matrices and the (self-)assessment tool to assess data stewardship roles in organisations
- Develop certified training for data stewards

The project originally focused on the lifesciences. However, the outcomes show to be relevant for other domains as well. Starting September 2019, the project will be continued in a one year NPOS (National Platform Open Science, the Netherlands) funded project on professionalising training in open science and data stewardship.



ZonMw

DATA STEWARDSHIP ON THE MAP: A STUDY OF TASK AND ROLES IN DUTCH RESEARCH INSTITUTES



Verheul, Ingeborg, Imming, Melanie, Ringerma, Jacqueline, Mordant, Annemie, Ploeg, Jan-Lucas van der, & Pronk, Martine. (2019, May 6)

<http://doi.org/10.5281/zenodo.1250535>

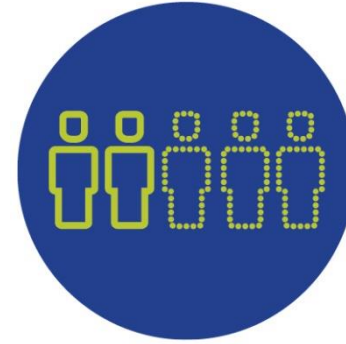


Melanie Imming & LCRDM, visuals Wendy Dekker

Goal of the Task group Data Stewardship

Provide insight into what is currently being requested, implemented and developed within Dutch institutions for - and by- data stewards in order to create a basis for clearer job descriptions for data steward roles.

Findings



GROWTH

The ambition at many institutions is to increase the number of data stewards in the near future; in particular the number of data stewards with domain data specific knowledge.

The fact that people at various positions take on all kinds of data stewardship tasks does not alter the fact that additional investments are needed for the professional organization of data stewardship.

Translation into practice



TRAINING

Investing in good basic education for data stewards and training programs for continuous training is necessary for a sustainable set-up of data stewardship in the Netherlands.

Translation into practice



BROAD FUNCTION PROFILE

More uniformity is good for securing better recognition and career prospects for data stewards. However, if new job profiles are created, the recommendation is to keep them broad.

The focus on a division into task areas instead of well-defined job profiles can help in compiling new customized job descriptions.

RDA Adoption Grant: 23 Things Revisited Updated Version for the Dutch Community

Mijke Jetten¹, Ingeborg Verheul², Fieke Schoots³, Iza Witkowska⁴, Lena Karvovskaya⁴, Mateusz Kuzak⁵, Ellen Leenarts⁶, Carlos Teijeiro Barjas⁷ & Boudewijn van den Berg²

(1) Radboud University, (2) LCRDM, SURFSara, (3) Leiden University, (4) Utrecht University, (5) eScience Center, (6) DANS, (7) SURFSara
Contact: Mijke Jetten, m.jetten@ubn.ru.nl

Background

We believe that the 23 Things: Libraries for Research Data resource (developed by the RDA Libraries for Research Data Interest Group) can act as a shared reference tool for knowledge on data management. In consultation with RDM stakeholders in the Netherlands, we expect that creating Dutch versions of the 23 Things for various audiences will improve cooperation at the national level, and a common understanding of RDM among diverse practitioners and supporters.

For this RDA adoption grant, the National Coordination Point Research Data Management (LCRDM) created a dedicated task group, that in between June 2019 and May 2020 will generate four deliverables.

Phase 1

Creating a Dutch nationwide commitment

The project's implementation & adoption plan is already extensively shared in the LCRDM pool of experts and other Dutch stakeholder groups on data management.



Deliverable:

<https://doi.org/10.5281/zenodo.3337870>



Implementation and adoption plan

"23 Things Revisited: Field Guides to Research Data Management"
Document version 07/03/2020 - <https://doi.org/10.5281/zenodo.3337870> - Deliverable project grant

Phase 2

Adjusting the 23 Things

We have already started creating local versions of the 23 Things for the Dutch community. Via joined sprint sessions, the original resource is being updated and adapted to the Dutch community, and to different target audiences such as data librarians, data stewards, IT specialists, policy officers, researchers, and PhD and Master students.



Intermediate deliverable:

<https://doi.org/10.5281/zenodo.3465895>

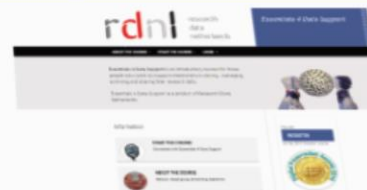


Phase 3

Getting the 23 Things adopted

An essential part of the project is to generate use cases and recommendations on adopting the 23 Things in daily RDM practice. Particularly in training, the 23 Things are expected to be useful, as it may help creating a consensus on the content of RDM courses in the Netherlands.

Deliverable: use cases and recommendations for use of the 23 Things



Phase 4

Dissemination of experiences and final versions

The project will be promoted via blogs, webinars, conferences and an article in an international data journal. All materials and outputs (including sharing our experiences to allow others to follow in our footsteps) will be published on Zenodo.

Deliverable: sustainability plan

1. Join the Research Data Alliance!
Belong to an international community and help build social and technical bridges to enable data sharing.
Join the RDA activities in the Netherlands!

edu.nl/tp39u & edu.nl/p4fvy



The original '23' version can be found at edu.nl/w7e34



RDA & LCRDM



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Inspiration

Sprints

Open Science

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THANK YOU!

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Melanie Imming, SURF

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www.accelerateopenscience.nl

Data stewardship on the map An exploration of tasks and roles in Dutch research institutions

<http://doi.org/10.5281/zenodo.2669150>

RDA: 23 things revisited

<https://zenodo.org/record/3465896#.XaRdVmaxW3>

Towards a community-endorsed data steward profession description for Life Science research

<https://zenodo.org/communities/nl-ds-pd-ls>