Data Stewardship in the Netherlands

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Slides of today: https://edu.nl/q676k
Data Stewardship in the Netherlands

- The Dutch research and HE landscape
- Three showcases of Data Stewardship
- Professionalising Data Stewards
- Cultivating a community
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Higher education and research institutions in the Netherlands

14 Research Universities (U)
08 University Medical Centres (UMC)
04 Technical Universities (TU)
36 Universities of applied sciences (HS)
Research Funders in the Netherlands

National and international:
- NWO
- ZonMw
- European Commission

Research domain specific:
- Health Holland
- ONCODE
- Hartstichting
- and others
Research Data Management initiatives in the Netherlands

National working groups and interest groups

Local and institutional communities
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Illustration by Esther Plomp, TU Delft
Data Stewardship approach: TU Delft

If researchers need support, let’s support them! Let’s hire Data Stewards!

Karel Luyben, Rector Magnificus at TU Delft (at that time)

Central funding to kick-start Data Stewardship at TU Delft for 3 years
Start of 2018 - End of 2020
Data Stewardship approach: TU Delft
Data Stewardship approach: TU Delft

TU Delft Research Data Framework Policy

- Roles and responsibilities at the university level
- Several compulsory statements
- Template for faculties
- Published

8 separate Faculty Data Policies

- Roles and responsibilities at the faculty level
- Reflecting disciplinary differences
- In development

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Data Stewardship approach: TU Delft

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Project updates: https://openworking.wordpress.com/data-stewardship/


Data Stewardship approach: Prinses Máxima Centrum

Data Governance

- Shared decision making
- Formalizing accountability (data stewardship)
- Clear definition of roles and responsibilities
- Assures regulatory compliance, security, privacy, protection and quality

Using existing roles & responsibilities

The goal of this approach is to be:
- Transparent
- Supportive
- Collaborative
Data Stewardship approach: Prinses Máxima Centrum
Data Stewardship approach: Prinses Máxima Centrum

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https://www.prinsesmaximacentrum.nl/en
Data Stewardship approach: UMC Utrecht, CMM

CENTER FOR MOLECULAR MEDICINE

Understanding the molecular basis of disease

The Center for Molecular Medicine is a research center that focuses on understanding the molecular basis of disease. The Center is part of the Division Biomedical Genetics of the UMC Utrecht and comprises the Sections Molecular Cancer Research, Cell Biology, Stem Cells and Genetics.
Data Stewardship approach: UMC Utrecht, CMM

Data Stewardship on departmental level:

- Support for funded research projects
- Advise and guidance for researcher and staff
- Operational duties within available services
- Collaboration across institutions and domains
Summary: three cases of data stewardship

Initial central funding for one data steward per faculty.

Defined roles and responsibilities across the organisation.

Tailored support on group level, project specific.
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Defining Data Stewards in the Life Sciences

Towards FAIR Data Steward as profession for the Life Sciences – A collaborative approach built on existing expertise
Data Stewards’ Knowledge, Skills and Abilities

Data Steward A
- Define & Implement policies & procedures
  - Institutional policies
  - Policies for specific data or use cases
  - FAIR data & GDPR
- Translate policy into required features and services
- Facilitate & Implement Software and Hardware
  - Services and technical infrastructure
  - Evaluate existing (EU, national, university) IT infrastructures

Data Steward B
- Adopt & Implement on project basis
  - Workflows (ways of working with data) to meet policies
  - Choose tools, standards and infrastructure
- Translate to researchers’ needs into requirements.
- Configure/adjust services

Data Steward C
- POLICY
  - Define policies at institutions, for specific data, FAIR data, GDPR
- RESEARCH
  - Adopt the appropriate data workflows, tools, standards, infrastructure
- INFRASTRUCTURE
  - Facilitate software, hardware, services, technical infrastructure

Version 1

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Defining Data Stewards in the Life Sciences

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Cultivating a Community of Data Stewards

- Est. June 2017
- DTL, Leiden UMC, and UMC Utrecht founding members
- 13x meetings up until now
- Public mailing list with over 90 members
- Regular meetings + remote participation
- Public minutes and outputs
- Collection of 27 anecdotes and stories
- Data Service Lifecycle
- More to come in 2020!

https://www.dtl.nl/community/interest-groups/data-stewards-interest-group/
Cultivating a Community of Data Stewards

DTL | Data Stewards Interest Group

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Be in touch!

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References in order of appearance

**Dutch higher education institutions**: https://www.studyinholland.nl/dutch-education/dutch-institutions

**NWO**: https://www.nwo.nl/en


**ZonMw**: https://www.zonmw.nl/en/

**Health Holland**: https://www.health-holland.com/

**Hartstichting**: https://www.hartstichting.nl/

**Oncode Institute**: https://www.oncode.nl/

**LCRDM**: https://www.lcrdm.nl/en

**Data4LifeSciences from the NFU**: https://data4lifesciences.nl/

**DTL Data Steward Interest Group – DSIG**: https://www.dtls.nl/community/interest-groups/data-stewards-interest-group/


**OSCU**: https://openscience-utrecht.com/

**OSCA**: https://openscience-amsterdam.com/

**OSC/e**: https://osceindhoven.github.io/

**OSCL**: https://www.universiteitleiden.nl/open-science-community-leiden

**Poster - Keep the wheels turning 2017**: https://zenodo.org/record/1210211

**Case Study related to keep the wheels turning 2019**: https://insights.uksg.org/articles/10.1629/uksg.484/

‘The role and value of data stewards in Universities: a TU Delft case study on data stewardship’: https://zenodo.org/record/2684278

**DAMA Book of Knowledge – Data Governance**: https://dama.org/content/body-knowledge

‘Towards a community-endorsed data steward profession description for Life Science research’ Zenodo Community with all outputs: https://zenodo.org/communities/nl-ds-pd-ls

‘Data stewards function landscape and its stakeholders’: https://doi.org/10.5281/zenodo.3243909

[all links last accessed 15.11.2019]