

Genogoa International Open Access Week 25 - 29 october 2021 Week

Data & Software roles of the future: Data stewardship and the Digital Competence Centre at TU Delft Marta Teperek – TU Delft

> Open Science e capacity building venerdì 29 ottobre 2021

DATA & SOFTWARE ROLES OF THE FUTURE: DATA STEWARDSHIP AND THE DIGITAL COMPETENCE CENTRE AT TU DELFT

29 October 2021 GenOA Week 2021

I am the Head of Research Data Services at TU Delft in the Netherlands

& Director of 4TU.ResearchData

@martateperek



WHY SHOULD WE CARE ABOUT GOOD DATA MANAGEMENT?

THERE ARE NUMEROUS BENEFITS!

- x Time saved (less time struggling => more time on research)
- × Increased research reproducibility, less errors

- × Easier to patent
- × More visibility, impact, citations
- × More trust
- × Compliance, no data loss



GOOD DATA MANAGEMENT IS CLEARLY BENEFICIAL AND IMPORTANT



BUT GOOD DATA MANAGEMENT IS NOT YET COMMON PRACTICE

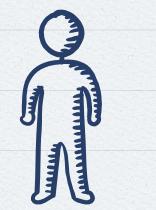
SURVEY OF 4,500 RESEARCHERS IN 2020

24% ARE FAMILIAR WITH THE FAIR PRINCIPLES

The State of Open Data Report 2020. Digital Science. Report. https://doi.org/10.6084/m9.figshare.13227875

GOOD DATA MANAGEMENT TAKES TIME AND EFFORT, REQUIRES KNOWLEDGE AND SKILLS.

RESEARCHERS SHOULD NOT BE DOING THIS ALONE.



Researching Teaching Supervising Applying for grants Reading papers Writing papers Going to conferences Networking...

Doing excellent data and software management?

TU DELFT CASE STUDY



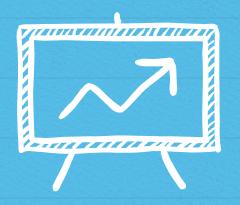


TU Delft = Delft University of Technology









STARTING POINT

Central Data Support team: repository, training, advocacy, website, tools policy...

CENTRAL SUPPORT IS NOT ENOUGH!



WE DON'T EVENT FIND THESE SERVICES... WE DON'T KNOW HOW TO USE THEM

DATA STEWARDS PILOT

2017/2018

Central University funding

1 Disciplinary data steward at every faculty for 3 years

Then the faculty decides what to do

Coordination at the Library

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Data stewards support researchers in data management

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They are the contact point for data questions

They report to faculty senior executives

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All data stewards appointed as permanent members of faculty

2020/2021

More data stewards appointed

Job profile for data stewards

PROBLEM: Insufficient capacity

DIGITAL COMPETENCE CENTRE PILOT (STARTED SEPTEMBER 2020)

HANDS-ON SUPPORT WITH DATA AND SOFTWARE MANAGEMENT: LEARNING BY DOING

DIGITAL COMPETENCE CENTRE (DCC)

INITIATIVE OF THE LIBRARY, ICT AND HPC

(FUNDED BY THE OPEN SCIENCE PROGRAMME AND A GRANT FROM THE DUTCH FUNDING AGENCY)

- \circ 2 Data Managers
- 4 RESEARCH SOFTWARE ENGINEERS (RSES)
- \circ 1 HPC CONSULTANT, 1 COORDINATOR



PLUS: MORE SUPPORT HIRED AT FACULTIES

DATA MANAGERS & RSES AT DEPARTMENTAL/RESEARCH GROUP LEVEL

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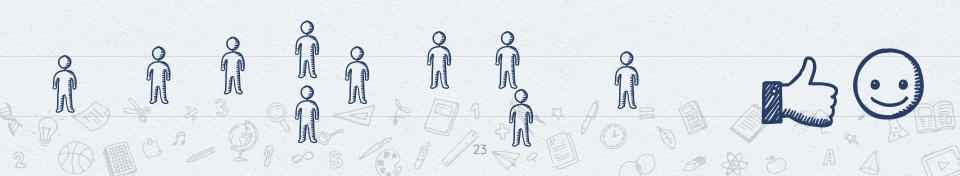




PLUS: MORE SUPPORT HIRED AT FACULTIES



• MOST EFFECTIVE TEAMS COMBINE VARIOUS TYPES OF PROFESSIONALS AND SKILLS



THREE LEVELS OF DATA SUPPORT @TU DELFT

Central Support

Repository Training Communications

=> Central (library) funding

Faculty level support

Data Stewards

Data Managers, RSEs

=> Faculty & research group budget **DCC** support

Data Managers

Research Software Engineers

=> Central & grant-based funding

National collaboration (4TU.ResearchData)



Any questions?

THANKSI

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Presentation template by <u>SlidesCarnival</u>