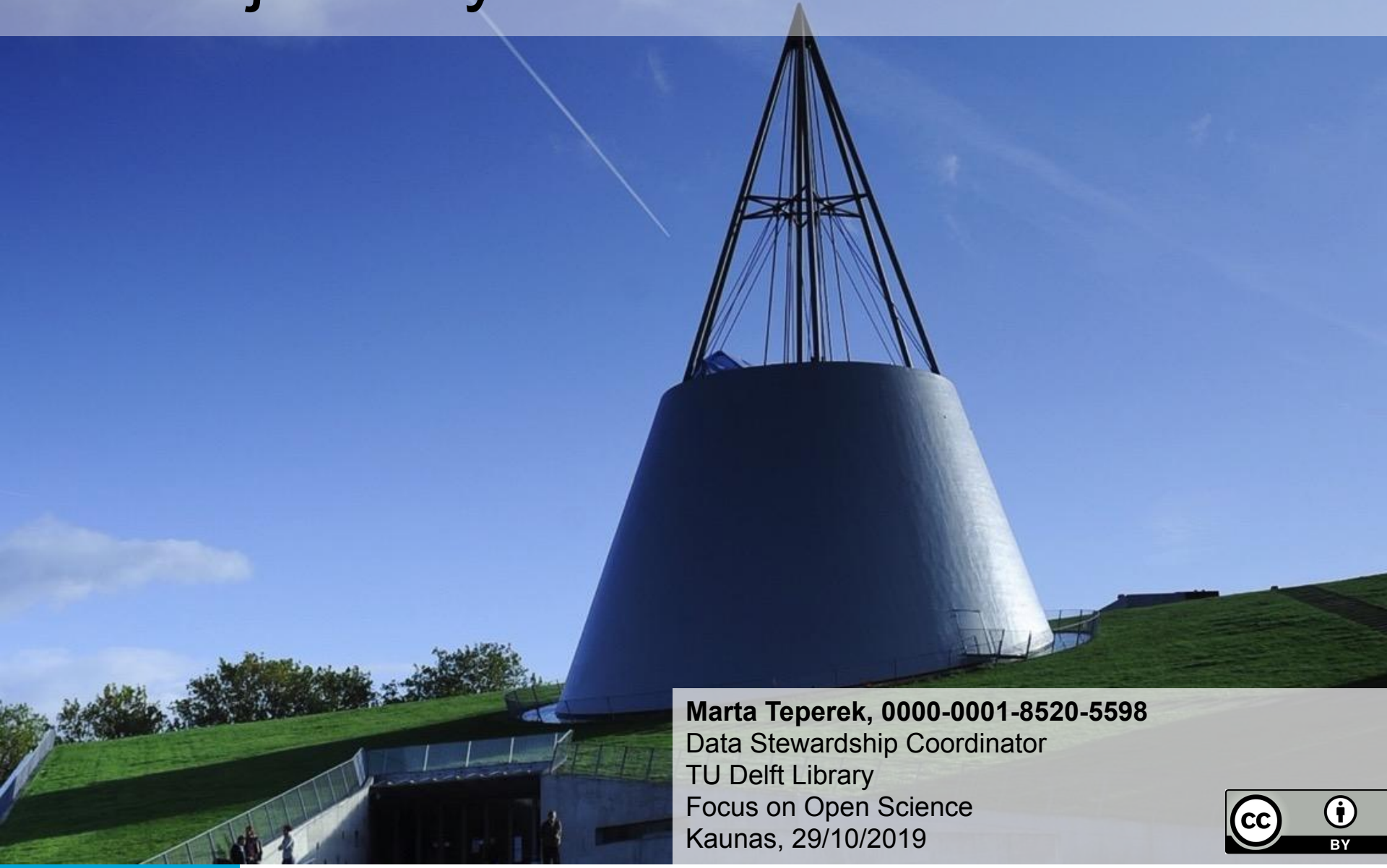


6 tips to take researchers along on the journey to FAIR



Marta Teperek, 0000-0001-8520-5598

Data Stewardship Coordinator
TU Delft Library

Focus on Open Science
Kaunas, 29/10/2019



Slides

<https://doi.org/10.5281/zenodo.3520965>

Questions?

www.slido.com

#F1029

Disclaimers

- Aim is not to tell you about things we do at TU Delft to support Open Science/FAIR data (boring?)
- Instead: entirely biased selection of 6 (hopefully interesting?) things/reflections
- This work is (almost exclusively) done by others
 - I will *try* to attribute everyone appropriately
- I am not an expert



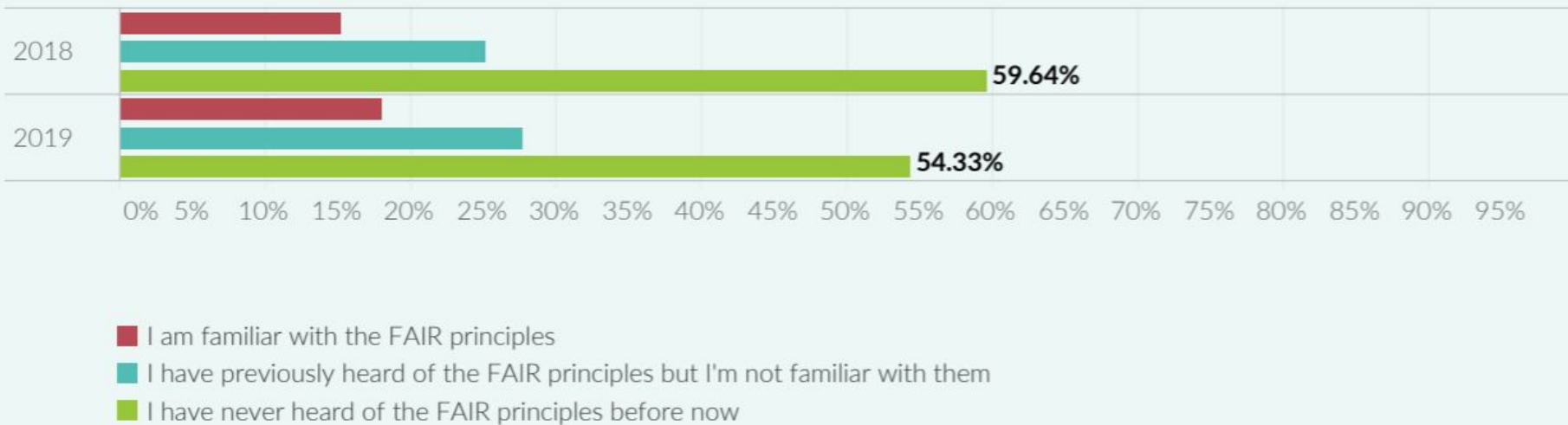
Alastair Dunning

Who is familiar with the
FAIR principles?

Who feels comfortable
to explain what FAIR
data really means in
practice?

Reality check: The State of Open Data Report 2019

How familiar are you with the FAIR principles?



1. Policies are useful when they go hand in hand with practice

It is *unFAIR* (and not useful) to simply expect researchers to make their research FAIR, without providing appropriate support

2. Research and researchers are central

eua EUROPEAN
UNIVERSITY
ASSOCIATION

2019 SURVEY RESULTS

Research Assessment in the Transition to Open Science

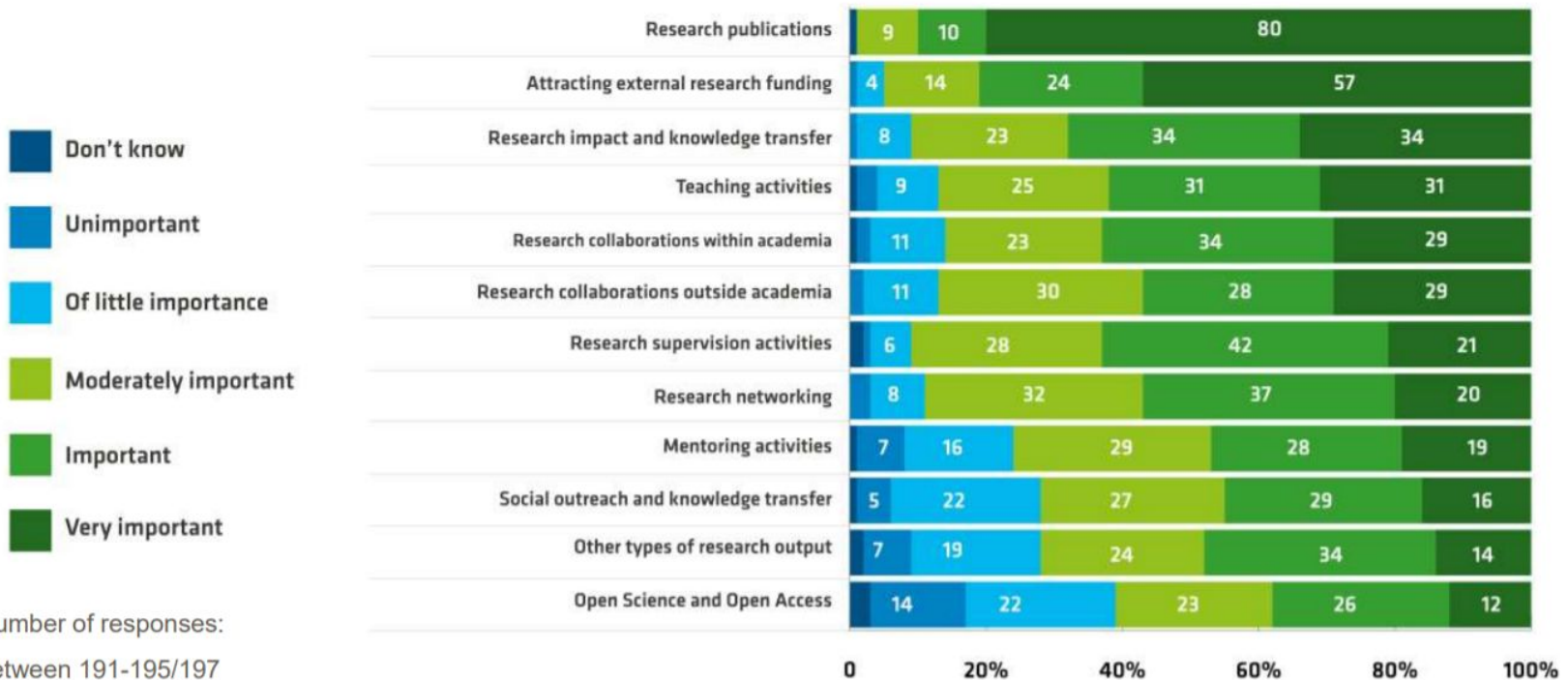
#OpenScience
#ResearchAssessment

September 2019

Researchers are under various types of pressures

Which types of academic work matter most for research careers?

eua EUROPEAN UNIVERSITY ASSOCIATION



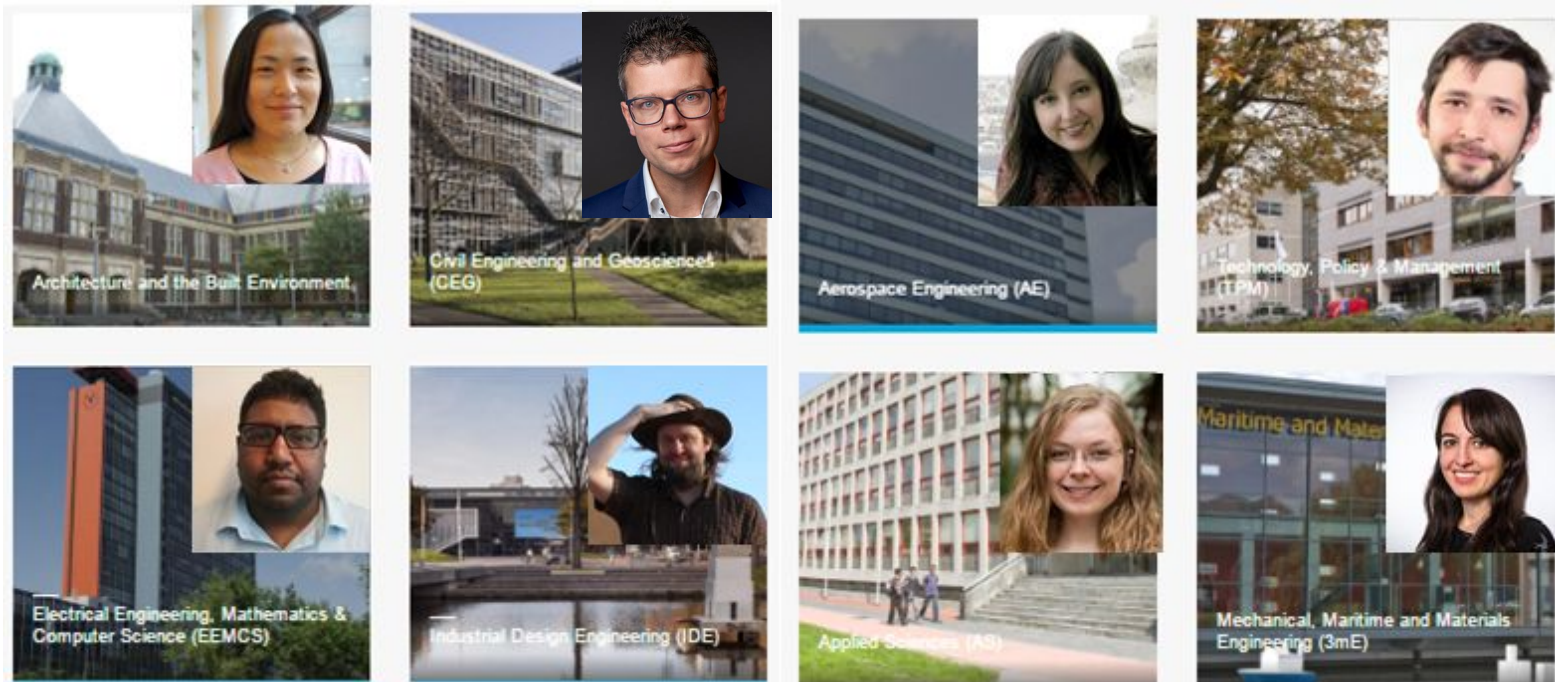
Bregt Saenen,

<https://www.slideshare.net/EurUniversityAssociation/2019-research-assessment-in-the-transition-to-open-science>

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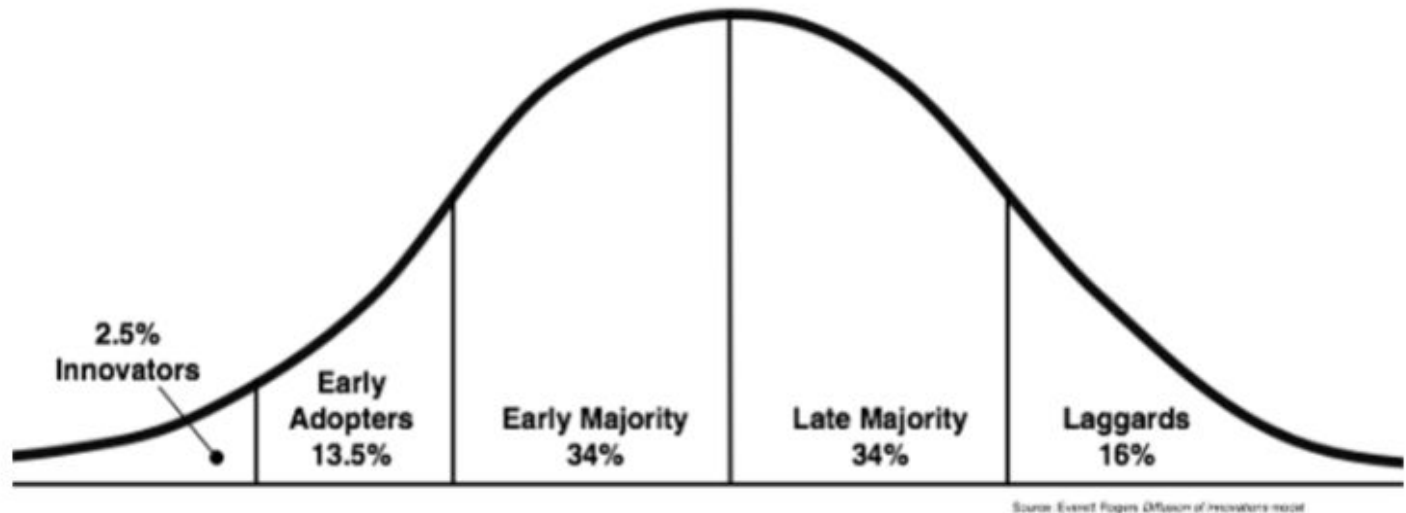
19

Investing in people: Data Steward with a PhD experience at every TU Delft faculty



- Understanding researchers
- Providing discipline-specific advice on Open Science and FAIR data

3. Small, incremental (realistic!) steps can make a big difference



Diffusion of Innovations; Rogers, 1963

Objective: improve daily practice,
not compliance



“Change happens one person at a time”

“To a large extent, researchers are not interested in data management planning. Apart from the fact that they have to do it for grant proposals, they’re generally not interested in sharing data. They want their problems to be solved (...) So our aim (...) is to help researchers where they want help. While helping them we have the opportunity to talk to them about data management planning and data sharing”



Jonathan Petters,
Virginia Tech

What do the Data Stewards do?



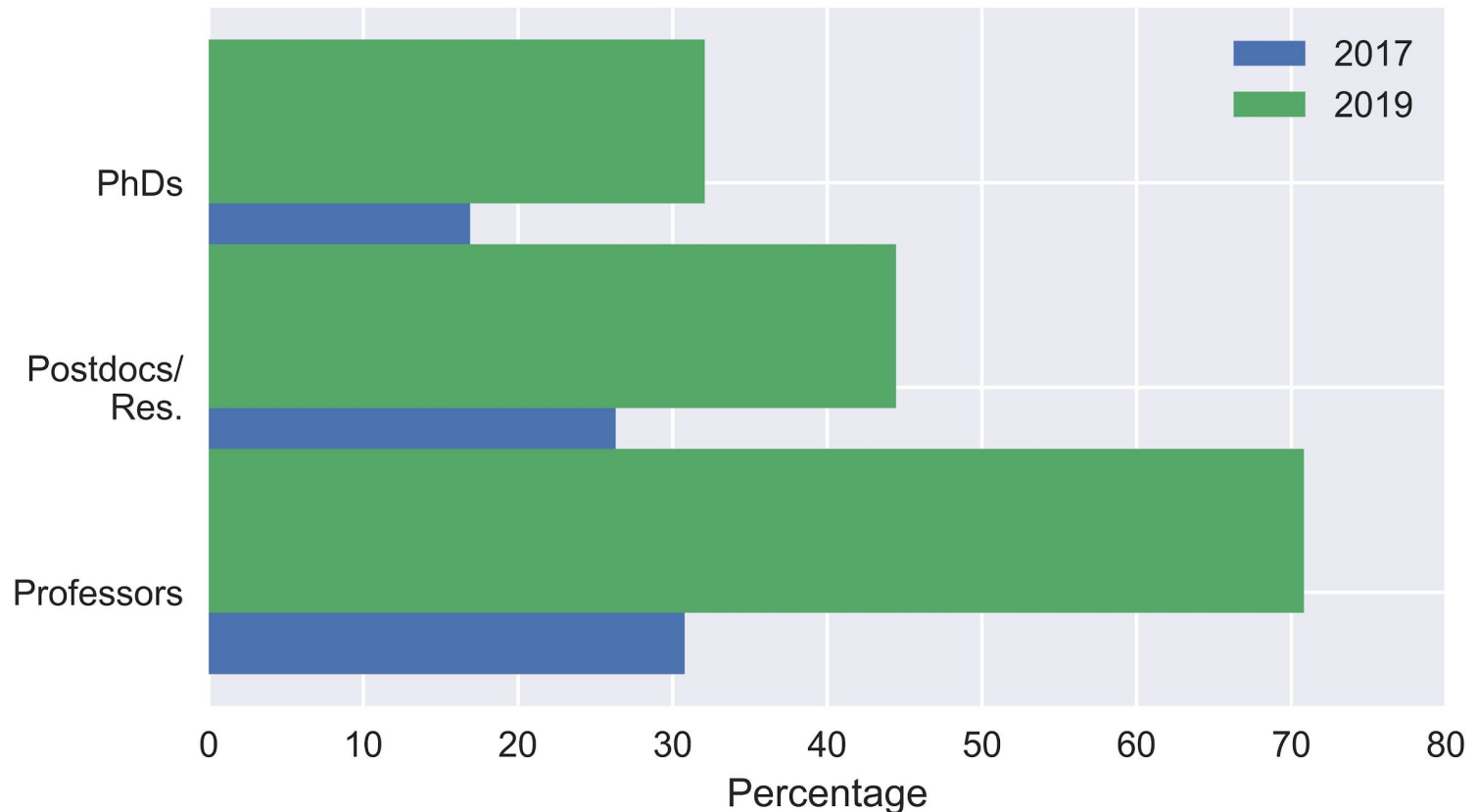
Personal approach:

- They are there for any data questions
- Help researchers who “don’t have data” and who “don’t have problems”
- Places: coffee machine, canteen, lift, doorway...
- Every occasion is good!

Change happens one person at a time

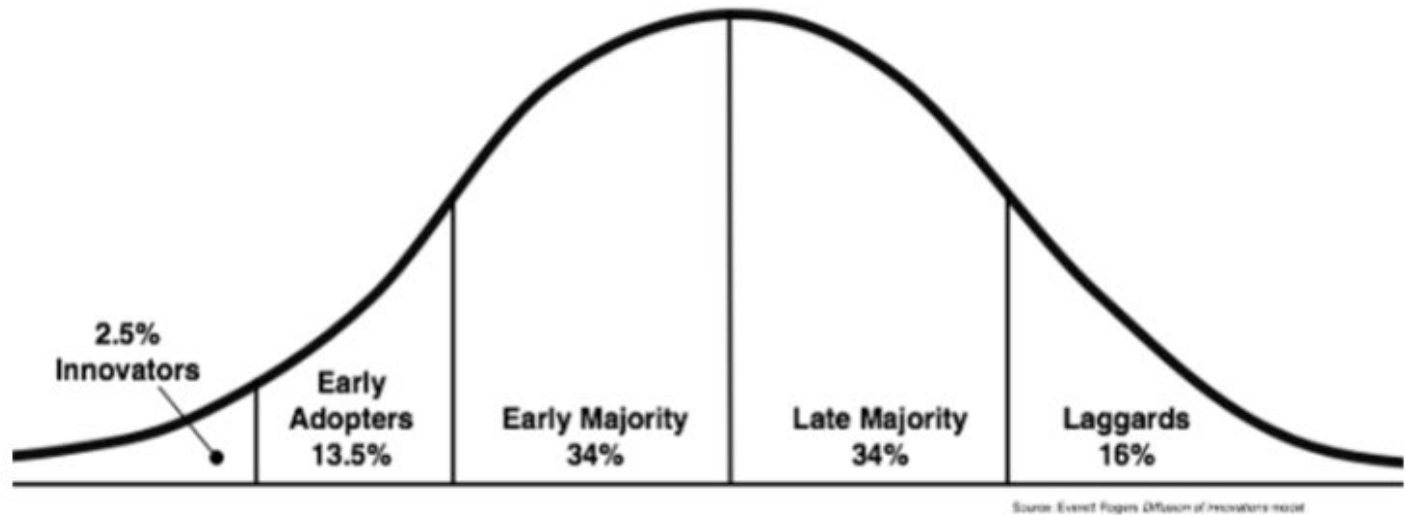
Does it make a difference to have a Data Steward?

Are you aware of funders' expectations for Findable, Accessible, Interoperable and Reusable (FAIR) data?
Results 2017 & 2019

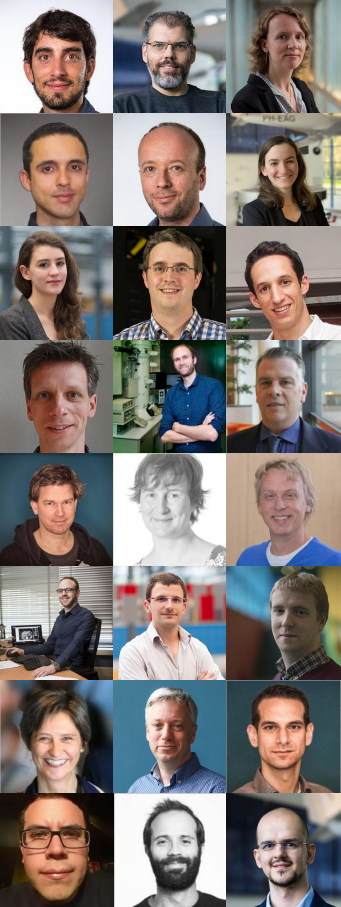


Heather Andrews

4. Champions are powerful allies



Diffusion of Innovations; Rogers, 1963



Data Champions

- Local advocates of good data management and Open Science
- **No requirements:** everyone who wishes to join is the right person
- Principle: Recognition for the work done anyway

...and more!
50+ at the
moment



Yasemin
Turkyilmaz-van der
Velden



<https://www.tudelft.nl/en/library/current-topics/research-data-management/research-data-management/data-stewardship/data-champions/>

What do the Data Champions do?

Launch of TU Delft Open Hardware Community


















José Carlos Urra
Llanusa

 **DelftOpenHardware** 
Group ID: 6229781

People at TU Delft interested and working on open hardware projects.

Subgroups and projects Shared projects Archived projects

  Open-source-Centrifuge-for-WetLab 	★ 0	4 days ago
  Fume Sensor for Precious Plastic Machines  A project to give an indication of the amount of fumes in the air and v	★ 0	4 days ago
  community-website 	★ 0	3 days ago
  hardocs 	★ 0	4 days ago
  Biogas  Mesothermic bio-digester for small farms	★ 0	2 days ago

What do the Data Champions do?

Champions the use of new tools

**Keep calm and go paperless:
Electronic lab notebooks can improve
your research.**



Sian Jones



<https://openworking.wordpress.com/2019/07/05/keep-calm-and-go-paperless-electronic-lab-notebooks-can-improve-your-research/>



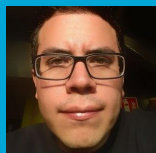
Paula Martinez
Lavanchy

What do the Data Champions do?

Deliver discipline-specific carpentry workshops:
Genomic Data Carpentry



Marcel



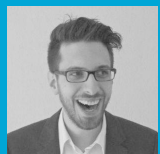
Raul



Esther



Santosh



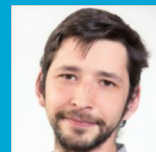
Mario



Barbara



Kees



Nicolas



Raúl teaching the participants about data wrangling and processing on the second day.

<https://openworking.wordpress.com/2019/06/07/tu-delfts-first-genomics-data-carpentry/> 20

What do the Data Champions do?

Talk about their experience with Open Science
(and inspire each other)



Connie Clare,
University of
Nottingham



5. Both central and disciplinary efforts are essential



Source:

<https://kaunas.kasvyksta.lt/2019/09/12/miestas/paaiskejo-kurias-europos-sostines-plotu-aplenks-triskart-issipleteszkaunas/>

Policy Development

TU Delft Research Data Framework Policy

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



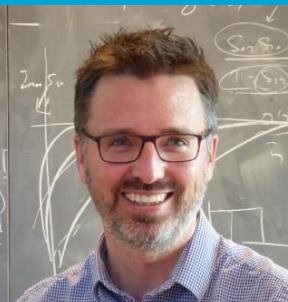
8 separate Faculty Data Policies

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

Bottom-up departmental policies



Anton Akhmerov

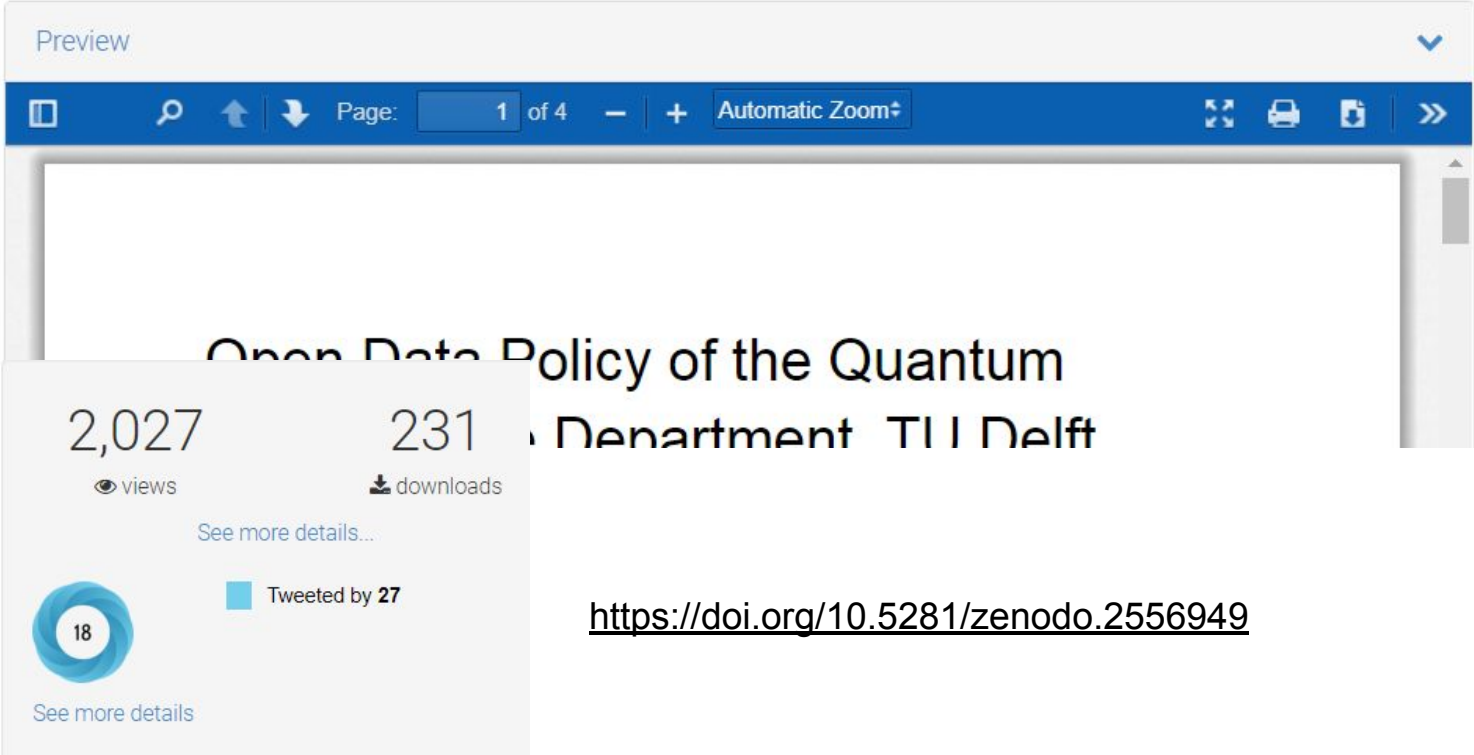


Gary Steele

Open Data Policy of the Quantum Nanoscience Department, TU Delft

 Akhmerov, Anton; Steele, Gary

The text of the open data policy and a brief guideline on preparing and publishing datasets.



Preview

Page: 1 of 4 Automatic Zoom+

Open Data Policy of the Quantum
Nanoscience Department TU Delft

2,027 views
231 downloads

See more details...

18 Tweeted by 27

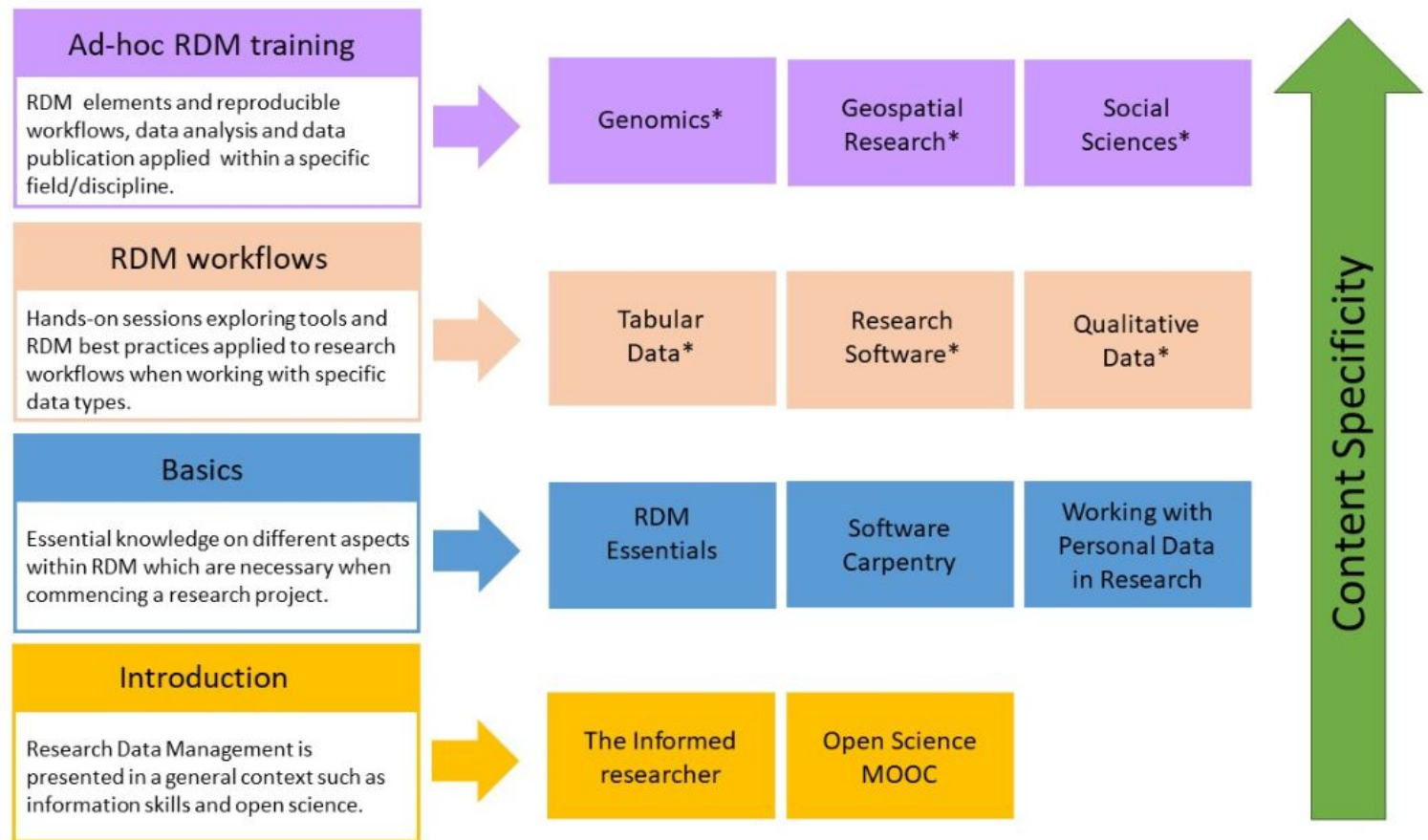
See more details

<https://doi.org/10.5281/zenodo.2556949>

Vision for training



Paula Martinez Lavanchy

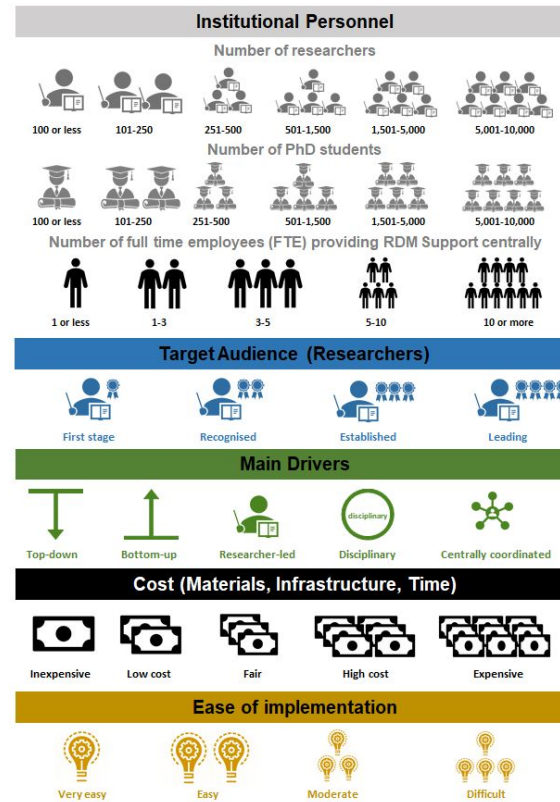


6. No need to reinvent the wheel (and ask for help)

There is so much out there!



5 pages of contributorship



6 tips to take researchers along on the journey to FAIR:

1. Policies are useful when they go hand in hand with practice
2. Research and researchers are central
3. Small, incremental steps can make a big difference
4. Champions are powerful allies
5. Both central & disciplinary efforts are essential
6. No need to reinvent the wheel

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m.teperek@tudelft.nl; @martateperek

Slides

<https://doi.org/10.5281/zenodo.3520965>

Questions?

www.slido.com

#F1029