

Towards a community-centric approach to designing institutional support for open science

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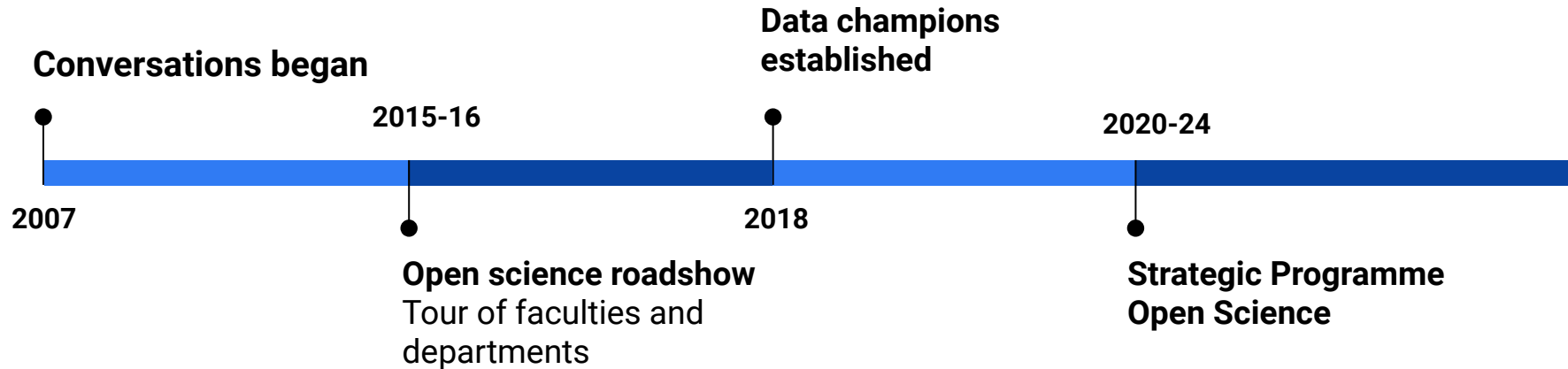
June 8, 2021

The Technical University of Delft

- 6000+ personnel
 - ~1100 FTE Faculty
 - ~2000 PhD candidates
 - ~1100 FTE other scientific staff
- 8 Faculties:
 - **4 x Engineering** (Aerospace; Civil; Electronic, maths & computation; Maritime, mechanical & materials)
 - **2 x Design** (Architecture & Built Environment; Industrial design engineering)
 - **2 x Science** (Applied Sciences; Technology, Policy & Management)
- 44 departments



A brief history of Open Science at TU Delft



Open Science Strategic Programme 2020-24



Programme outputs

Together with:

- ICT
- Research integrity & ethics
- Legal
- HR
- Communications
- Graduate school
- Faculty staff

- Processes
 - Policies & guidelines
 - Training
- Organisation Structure
 - Support personnel
 - Partnerships
- Technology
 - Infrastructures (tool, platforms & networks)
 - Services
- Information
 - Know-how & resources
 - Research
 - (success) stories

Example 1: Policies

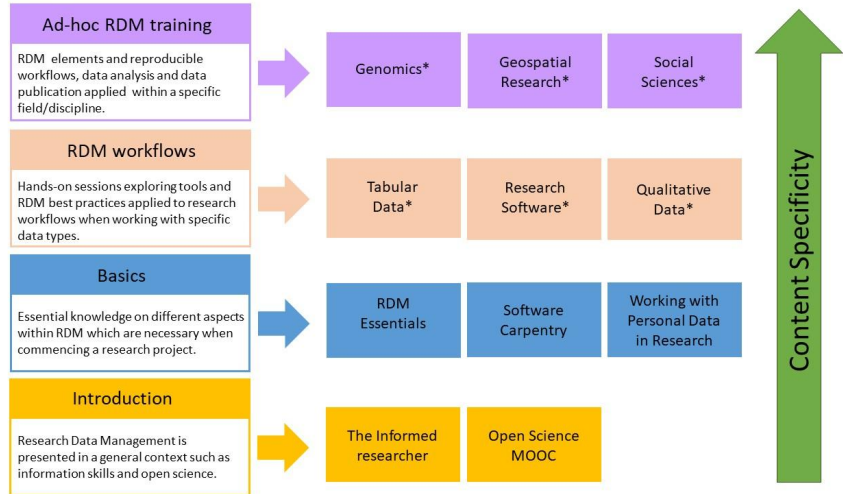
- Open Access
 - Also funders' mandate and national developments
- Faculty-specific research data policy
- Research software policy
- Open Education Resource Policy (coming soon)



Example 2: Training

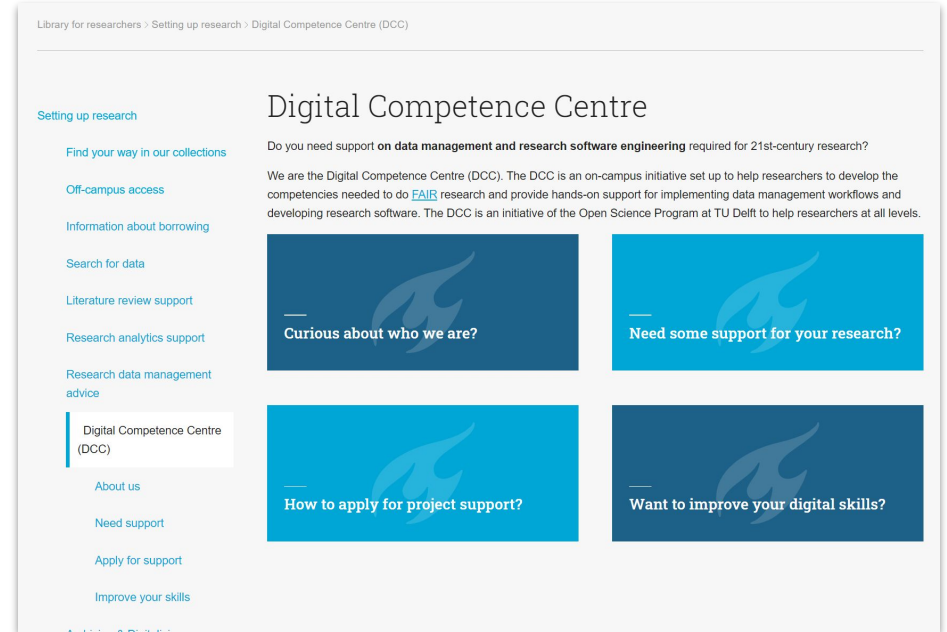
- Software & Data Carpentries Workshops
- Research Data Management:
 - Faculty-specific training
 - Research Data Management 101
- Open Science MOOC
- Informed researcher
- Open hardware mentorship programme

Vision for RD & Software Management training – TU Delft Library



Example 3: Support personnel

- ([Faculty Data Stewards](#))
- [Digital Competence Center \(DCC\)](#)
- [Copyright Helpdesk](#)
- [Publishing Team](#)



Challenges & Opportunities

“Lack of awareness”?

- How do we know how much awareness there is currently?
- What type(s) of engagement are we looking for?
- Who should be aware, and to what extent?
- Where do they usually get their information from?
- What is our goal, and how do we know if we have reached it?

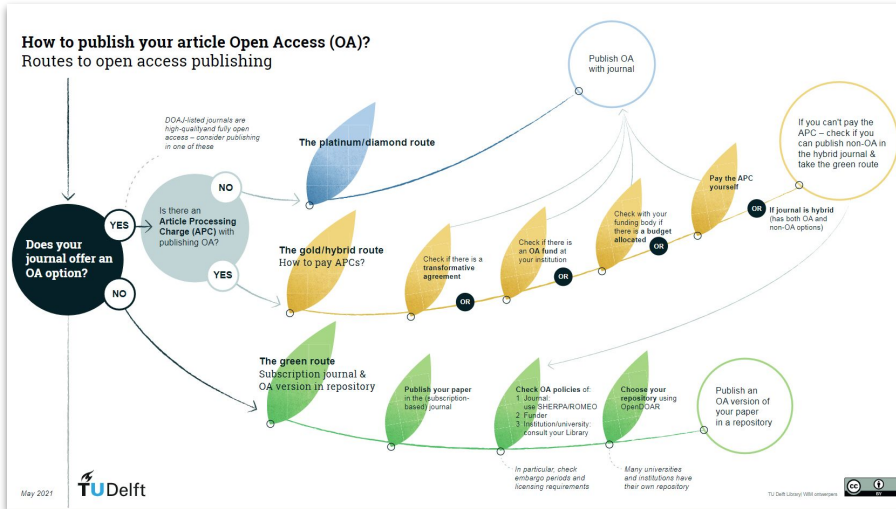
“This project ‘You share, we take care’ sounds like a good idea... I think my colleagues will be interested to join as well. **Would it be possible to get some additional info?**”

Researcher, Faculty of Civil Engineering and Geosciences

“It was clear that the process is new - **sometimes it takes 3-4 emails before there’s an actual answer.**”

Student assistant, Faculty of Aerospace Engineering

Make it easy to be open



Research Funding Weeks
25 January – 5 February 2021

Overview of the session

- Discipline specific data management support
- 4TU.ResearchData
- Digital Competence Center
- Open access funding & support
- TU Delft OPEN Publishing
- New Media Centre

Questions?

Please ask in MS Teams chat – or upvote (thumbs up) other questions!

4

TU Delft

Competing priorities

“Writing and publishing papers is still the most important - **it's hard to find time** to tidy up code and share software.”

Final year PhD candidate, Faculty of Aerospace Engineering

“Our dean just started and at the moment **she is very busy** with education arrangements for the next academic year. ”

Faculty secretary

Influencing leadership



Jan-Dirk Jansen

Dean, the Faculty of Civil Engineering
and Geosciences

OS Programme Steering Committee



Franklin van der Hoeven

Director of Research, Faculty of
Architecture and the Built Environment

OS Programme Manager

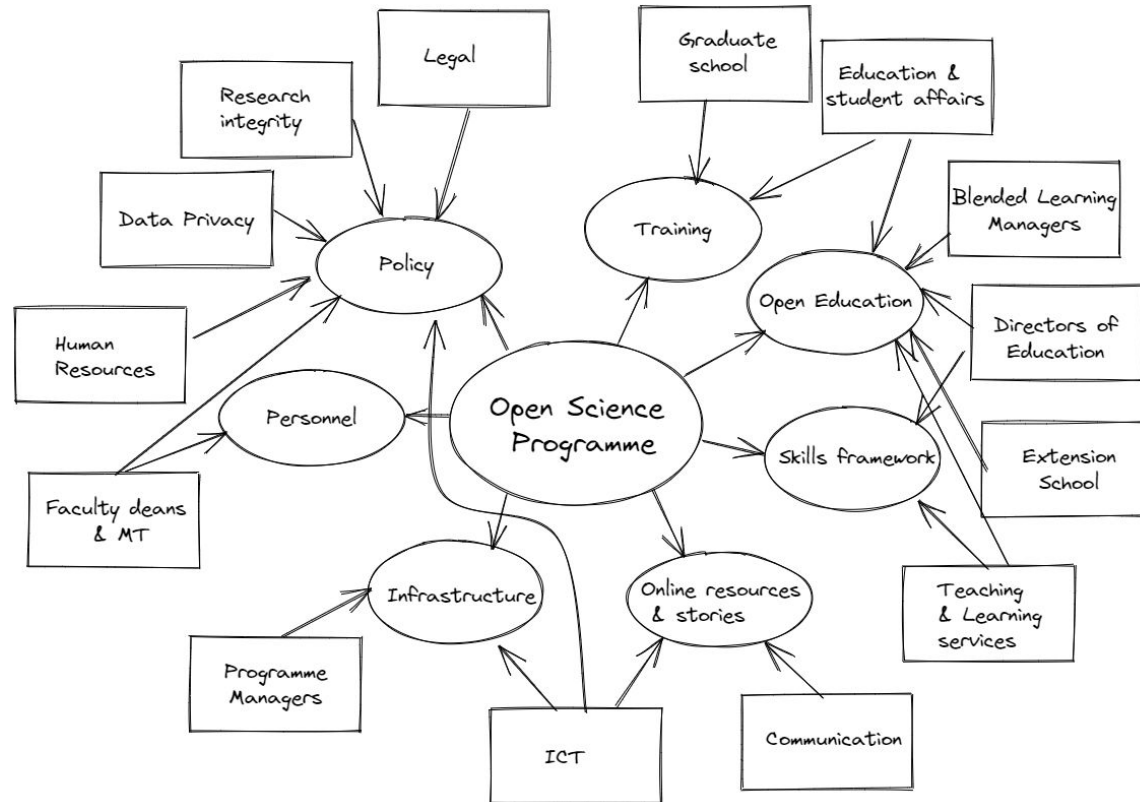


Rob Mudde

Vice Rector Magnificus/ Vice-President
Education

OS Programme Portfolio Holder

Support & equip change managers



Support & equip change managers

“The news bulletin could then focus on a particular topic and also tie it back to the developments at the national (maybe international) level.”

Faculty secretary

“... they publish monographs (books), which may not be covered by the Taverne amendment.”

Data steward

Empowering individuals

“I strongly believe that democratization of knowledge is a key enabler for empowerment development. However, some of the forefront scientific production remains inaccessible to many worldwide. That must change.

Open science has the power to change it.”

Juan Carlo Intriago Zambrano

Open Science Community Delft member and TU Delft Global Fellow, Faculty of Civil Engineering and Geosciences

Co-create open initiatives & tools



osc-delft.github.io | @OSCDelft
startyourosc.com



Anton Akhmerov

@AkhmerovAnton

Thanks to the new policy (tudelft.nl/2021/library/r...), any [@tudelft](#) employee may author open source research software without red tape. Excited to do so legally :)

It was a long road—my personal involvement in discussions started in July 2015 with an email to our legal office.



Sharing research software for maximum impact
[tudelft.nl](#)

10:15 PM · Apr 7, 2021 · Twitter Web App

21 Retweets · 6 Quote Tweets · 75 Likes

Recognise & rewards efforts towards open

The screenshot displays the TU Delft website. The top navigation bar includes links for Home, Contributors, Open Publishing, and Contact. A featured article titled "Author Spotlight: Contextualising 80 years of aerospace engineering education in the Netherlands" is shown, posted on March 30, 2021, by Emmy Tsang. Below this, a section titled "Board of Editors" describes the role of the TU Delft OPEN Publishing Board of Editors, which includes experts in research fields and publishing. It lists board members: Amin Askarinejad (Faculty of Civil Engineering and Geosciences), Bruno de Andrade (Faculty of Architecture and the Built Environment), Chiara Bisagni (Faculty of AEI), and Maartje van den Bogaard (Faculty of Applied Sciences). A "Interested in joining?" section provides a form for potential members to submit their details, including title and name, affiliation, email address, research portal link, areas of expertise, and editorial experience.



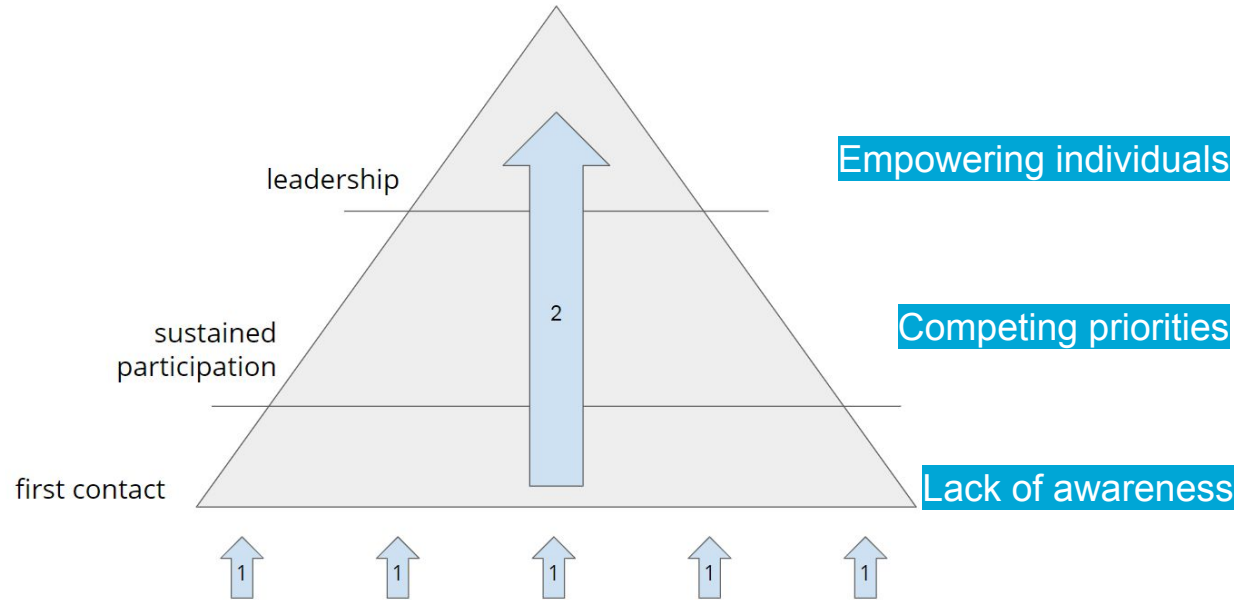
built by eragon, Data by arjuszka, code by ProSymbols, people by Humantech, Brain by Sergey Demushkin, write by hayastudio10, all from the Noun Project

Putting it together

Building an architecture for participation

Design principles:

- Tailored
- Rewarding -> Sustainable



Open Science Community Engagement Strategy

Empowering individuals

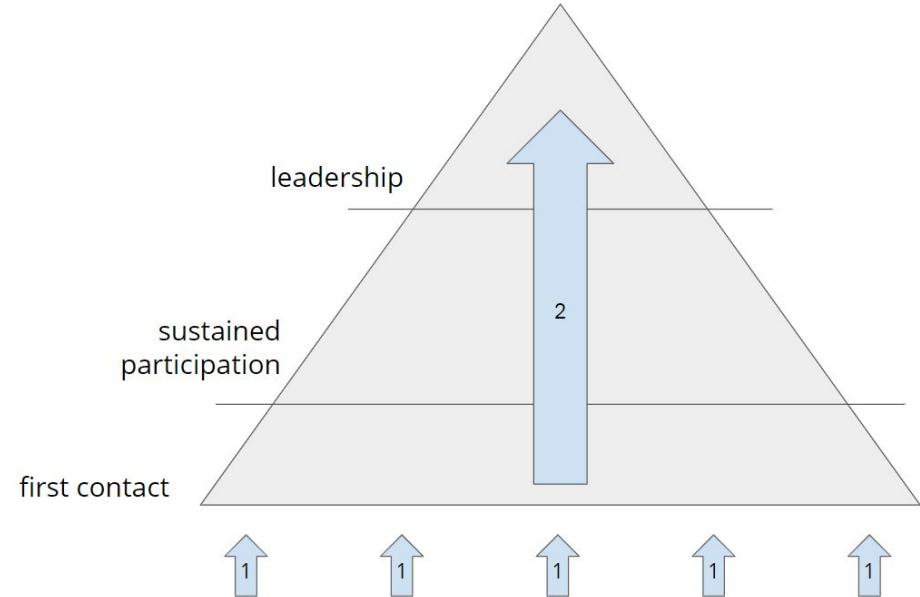
Co-creation
Recognition & reward

Competing priorities

Influence leadership
Equip change managers

Lack of awareness

Make it easy
Meet them where they are



Future plans

- Service optimisation
- Discipline-specific engagement
- Recognition & rewards
- Impact valuation

Thank you!

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