On a (cultural) journey towards FAIR data: some Dos and a few don'ts

Alessandra Soro 4TU.ResearchData Community Manager





Get in touch with us

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Invited Forum: Challenges in Making Data Available Empirical Article

Data Sharing in Psychology: A Survey on Barriers and Preconditions

🕕 🙄 🔮

Bobby Lee Houtkoop¹, Chris Chambers², Malcolm Macleod³, Dorothy V. M. Bishop⁴, Thomas E. Nichols^{5,6,7}, and Eric-Jan Wagenmakers¹

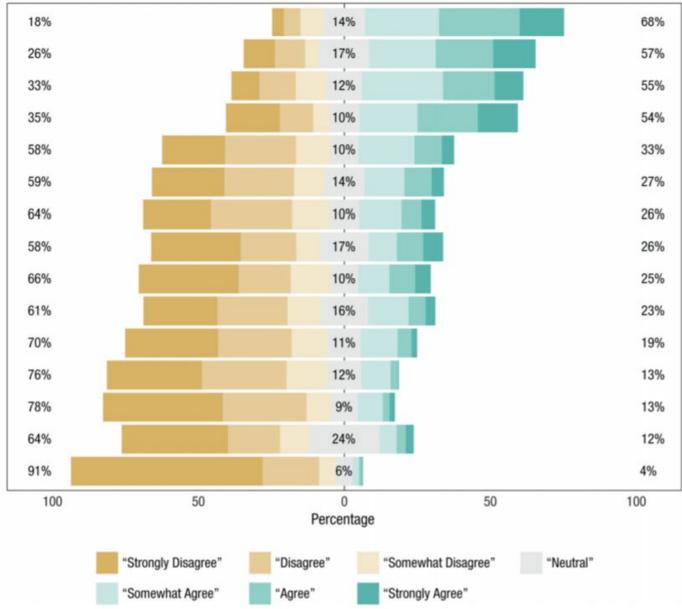
¹Psychological Methods Programme Group, University of Amsterdam; ²Brain Research Imaging Centre (CUBRIC), School of Psychology, Cardiff University; ³Centre for Clinical Brain Sciences, University of Edinburgh; ⁴Department of Experimental Psychology, University of Oxford; ⁵Oxford Big Data Institute, Li Ka Shing Centre for Health Information and Discovery, Nuffield Department of Population Health, University of Oxford; ⁶Wellcome Centre for Integrative Neuroimaging, FMRIB, Nuffield Department of Clinical Neurosciences, University of Oxford; and ⁷Department of Statistics, University of Warwick



Advances in Methods and Practices in Psychological Science 2018, Vol. 1(1) 70–85 © The Author(s) 2018 Reprints and permissions: sagepub.com/journalsPermissions.nav DOI: 10.1177/2515245917751886 www.psychologicalscience.org/AMPPS **©SAGE**

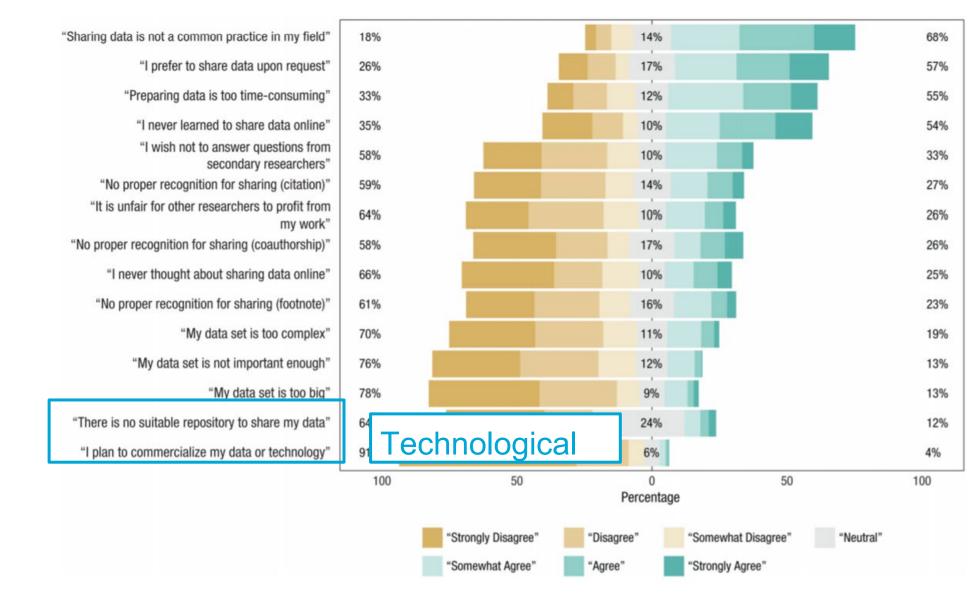
https://doi.org/10.1177/ 2515245917751886











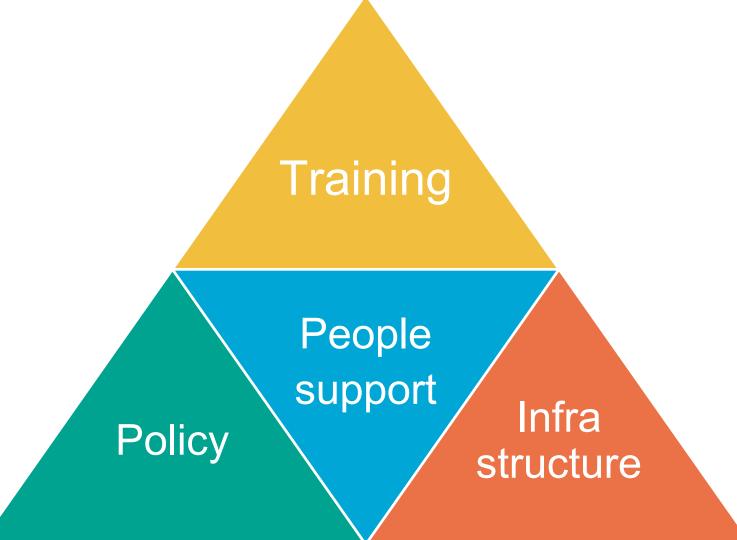
https://doi.org/10.1177/2515245917751886

TUDelft

Developing a community enables cultural change



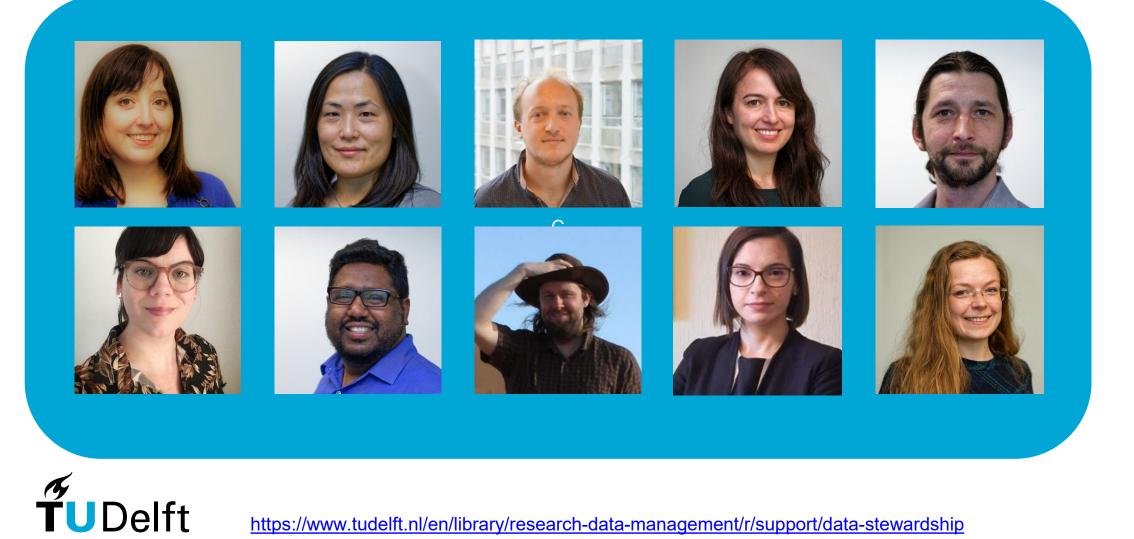
Key elements of Research Data support services





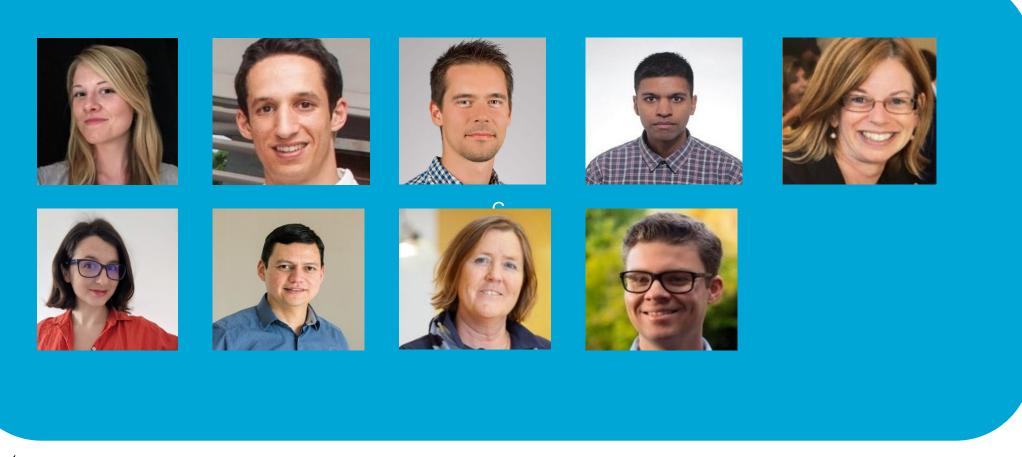
1. People support for research data

Data Stewards Team



https://www.tudelft.nl/en/library/research-data-management/r/support/data-stewardship

Digital Competence Centre Team: Data Managers and RSEs





https://www.tudelft.nl/en/library/library-for-researchers/library-forresearchers/setting-up-research/dcc

Data Champions



This is the point hardest to explain to colleagues that

never published their research data.

Publishing data protocol:

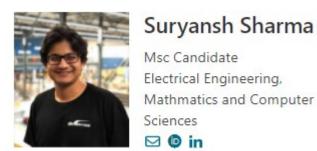
1. zip 2. upload

That's it.



Eva Kalmar

Lecturer **Applied Science Department: Science Education** and Communication 🌐 🖂 📵 in



Feijia Yin

Assistant Professor Aerospace Engineering Department: Control and Operations (i) I (ii) I (iii) I (iii)

Msc Candidate Electrical Engineering, Mathmatics and Computer Sciences 🖂 🙆 in



https://www.tudelft.nl/en/library/research-data-management/r/support/datachampions

...

09-10-2020

Open Science Community Delft





Nergis Tömen



Jacky Bourgeois

Assistant Professor Industrial Design Engineering



Delft Open Hardware





José Carlos Urra Llanusa



Jerry de Vos



https://www.tudelft.nl/library/over-de-library/tu-delft-librarypresenteert/open-hardware-community-delft

09-10-2020



Key players









Karel Luyben ex-Rector Magnificus

Anke Versteeg, Policy Advisor Alastair Dunning, Head of Research Services Paula Martinez Lavanchy Research Data Officer

TU Delft Research Data Framework Policy and faculty policies

Faculty of 3mE

Research Data

Management Policy

TUDelft

3mE





https://www.tudelft.nl/en/library/research-datamanagement/r/policies/tu-delft-faculty-policies

Faculty of Architecture and the Built Environment Research Data Management Policy

TUDelft

Data Management



ABE

TUDelft

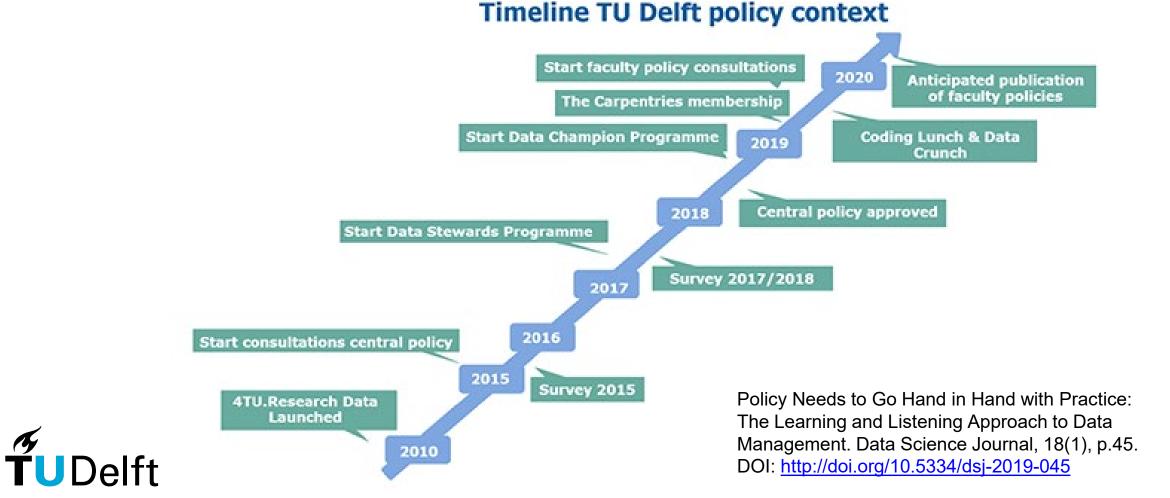
Faculty of Aerospace

Engineering Research

Policy

AE

TU Delft Research Data Framework Policy and faculty policies



TU Delft Research Software Policy



TU Delft Guidelines on Research Software

Licensing, Registration and Commercialisation





How did software policy came about?

"If can't publish my software open source, I will develop a script that will send a new invention disclosure form with every Github commit!"



Anton Akhmerov Associate Professor at TU Delft and Data Champion



TU Delft Research Software Policy main goals

- Encourage open-source software development
- Recognize and reward software development



3. Training

Key players



Eirini Zormpa Ex-Trainer



Ashley Cryan Data Manager



Aleksandra Wilczynska Data Manager



Paula Martinez Lavanchy Research Data Officer



Meta Keijzer de Ruyter Project Manager

Introduce vision on training (2019) - to deliver, we need to work together

Delft Library

Ad-hoc RDM training

RDM elements and reproducible Geospatial Social Genomics* workflows, data analysis and data Research* Sciences* publication applied within a specific field/discipline. **RDM** workflows Hands-on sessions exploring tools and Tabular Research Qualitative RDM best practices applied to research Data* Software* Data* workflows when working with specific data types. Basics Working with RDM Software Essential knowledge on different aspects Personal Data Essentials Carpentry within RDM which are necessary when in Research commencing a research project. Introduction The Informed **Open Science** Research Data Management is researcher MOOC presented in a general context such as information skills and open science.

Content Specificity

Vision for RD & Software Management training – TU

Vision for Research Data & Software management training at TU Delft (2.0). Zenodo. <u>https://doi.org/10.5281/zenodo.5615099</u>

TUDelft

Genomics Data Carpentry

Led by researchers

supported by Data Stewards enabled by the University.



Victor Koppejan



Raul Ortiz Merino



Marcel van den Broek



https://openworking.wordpress.com/2019/08/01/ carve-your-niche-with-the-carpentries/

4. Infrastructure

Thank you:



Iulia Popescu Communications Advisor



Alessandra Soro, Community Manager



Kees den Heijer Technical Team Lead



Madeleine de Smaele Repository Manager



Roel Janssen Lead Developer



Egbert Gramsbergen Data Engineer



Marta Teperek Data Stewardship Coordinator



Repository for science, engineering, and design 250+members



Explore the repository (why and how to upload)

Check it out

Join our community

Join us



TUDelft

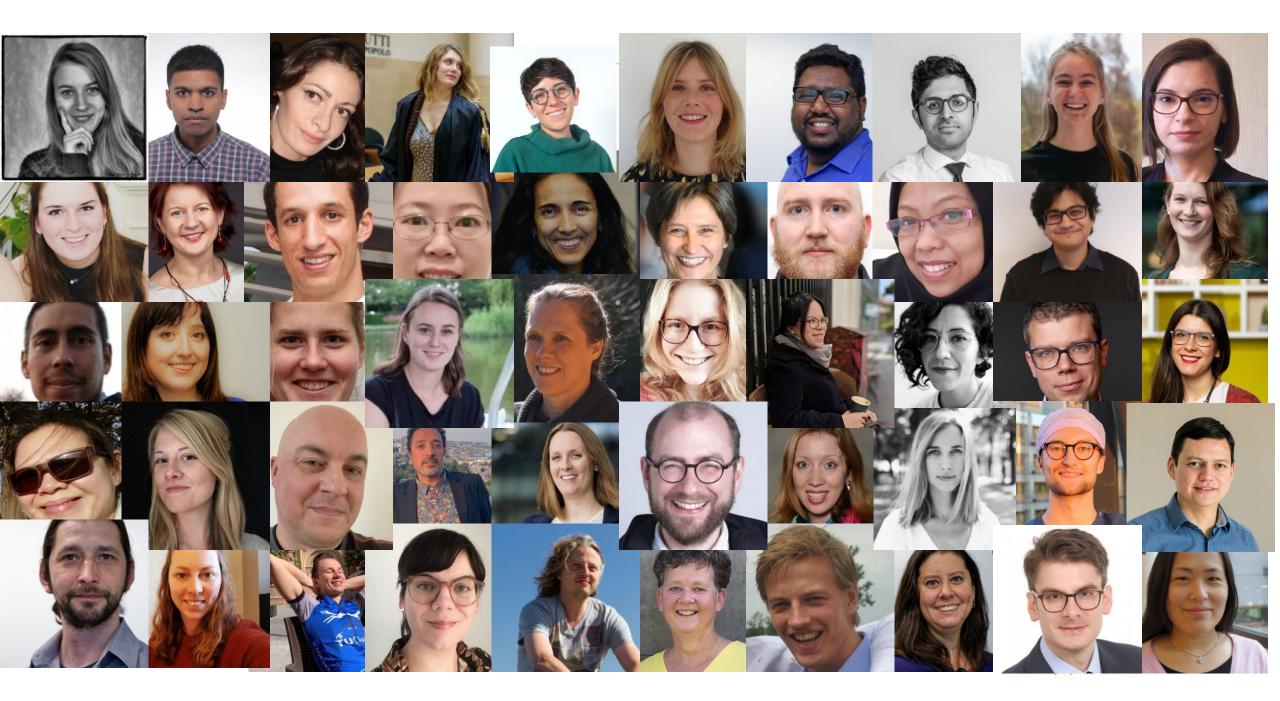


4TU.Federation

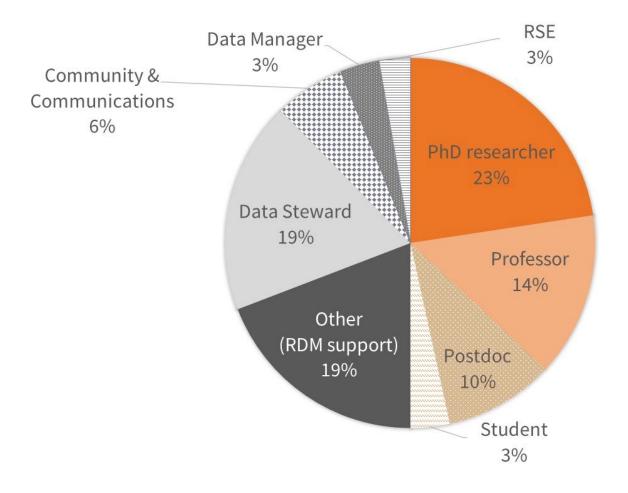








Who are our community members?

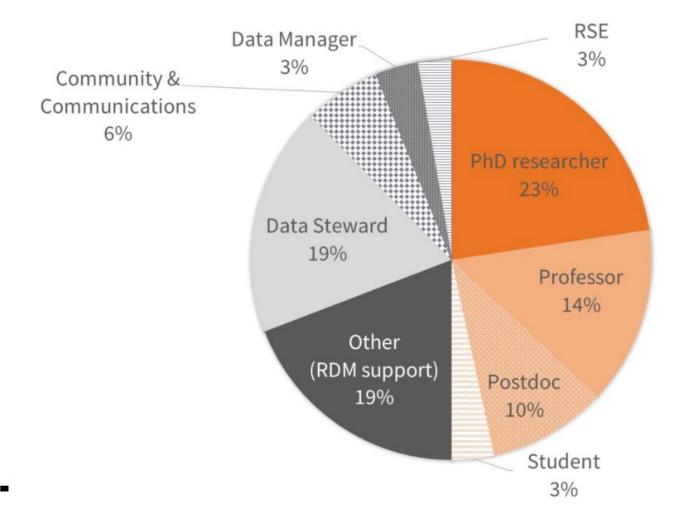




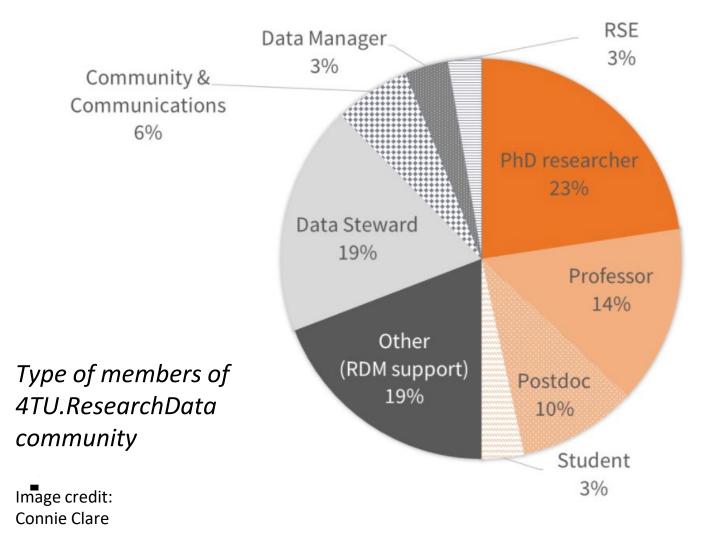
The role of the community in in frastructure development



Our members' expertise



Community can drive innovation



Partnership with the research community helps to achieve sustainability and an infrastructure which is agile and able to respond to changing needs.

Examples of community -driven in frastructure in novation



Jupyter FAIR project (NWO-funded proposal)

"With JupyterFAIR we aim to provide a simple and easy to use tool for researchers to implement FAIR data sharing practices throughout the entire research lifecycle"



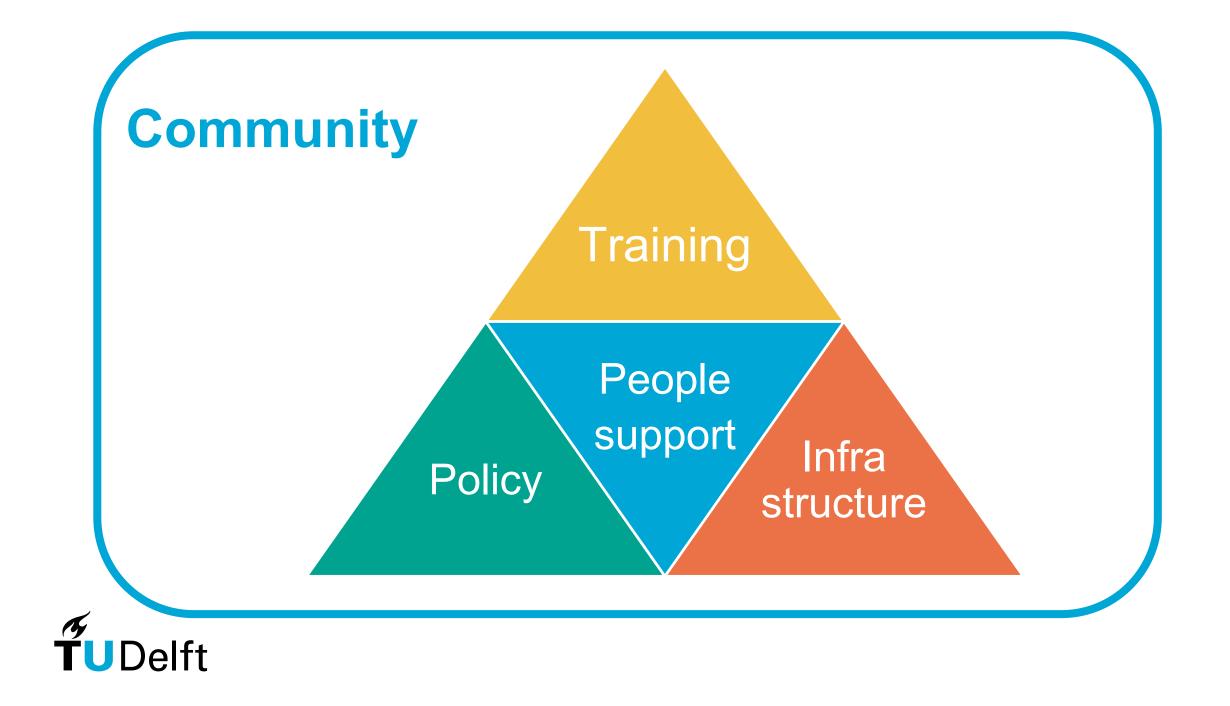
Professor Serkan Girgin, University of Twente



https://community.data.4tu.nl/2021/11/04/jupyterfair-integrating-researchenvironments-with-data-repositories-for-fair-research-data-management/

But community cannot effectively contribute to a proprietary software.





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Thank you for your attention