



Delft University of Technology

TU Delft Open Science Programme 2020-2024 Research and Education in the Open Era Work Plan 2024

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Research and Education in the Open Era

TU Delft Open Science Programme 2020-2024

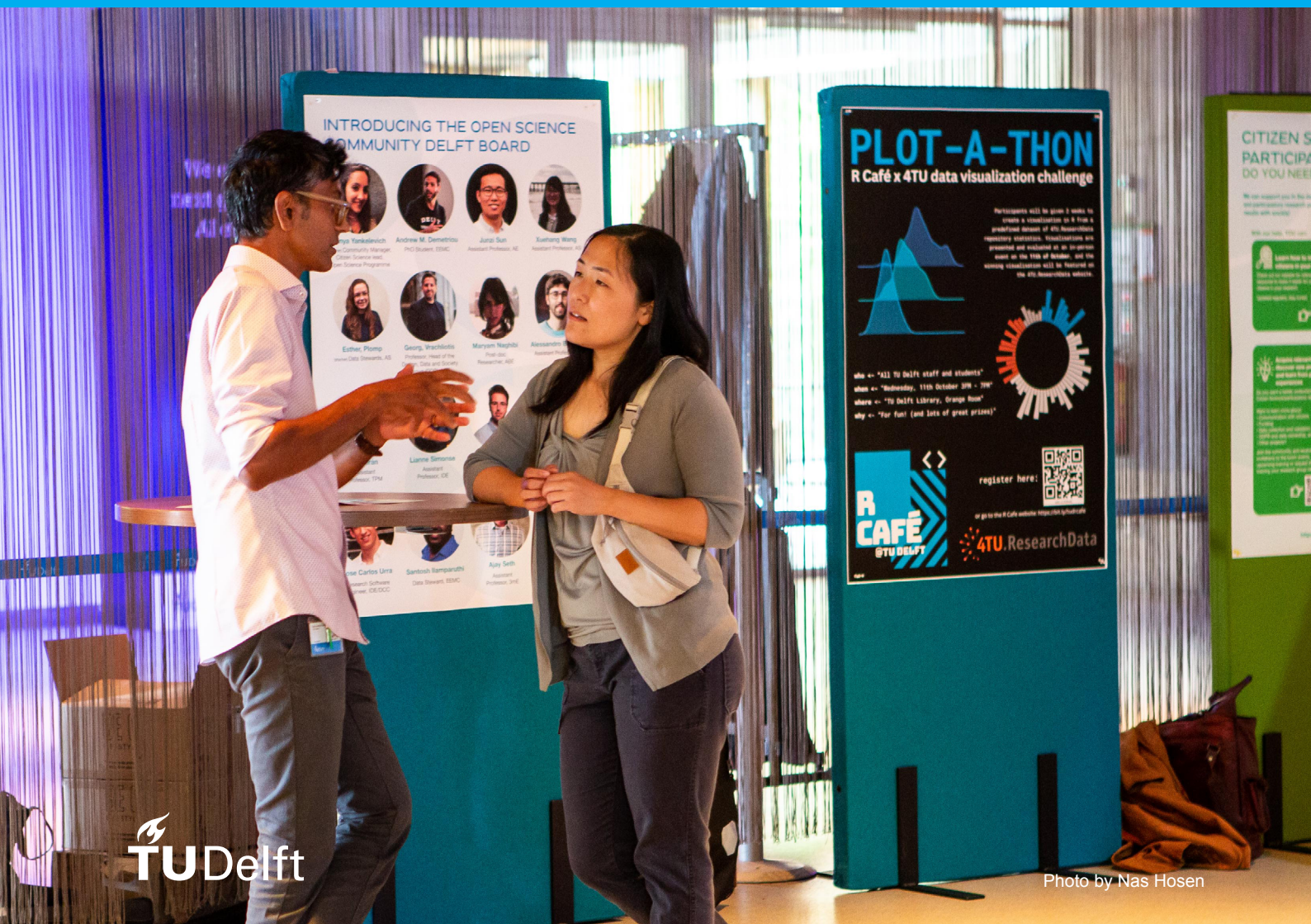
Work Plan 2024

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Colophon

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Work Plan 2024

TU Delft successfully ran the first iteration of the Open Science Program from 2020 to 2024. In 2023, the board agreed to prepare a follow-up to this strategic program. In the collaborative efforts of the Open Science team, the Steering Group, and the Board, a new setup was developed: TU Delft Open Science, abbreviated as TU Delft OS. The Executive Board approved this framework for the next four years, covering the period from 2024 to 2028, on October 10, 2023. The new program is structured into two branches: **Open Education** and **Open Science**. Each branch encompasses several initiatives.

Open Education: **Open Educational Resources, Open Pedagogy, Open Systems;**

Open Science: **Open Scholarly Publishing, FAIR Data & Software, Civic Engagement, Open Hardware.**

Due to financial constraints faced by TU Delft regarding the 2024 budget, the program was tasked with formulating scenarios on how the program's execution could be phased over time.

Upon the explicit suggestion of the vice-chair of the board, Rob Mudde, the program decided to focus on Open Education, Open Hardware, and Civic Engagement in 2024. The rationale for this choice is that Publishing, Data & Software have made significant progress over the past decade and appear to be maturing, while the other initiatives clearly need an extra boost.

In the light of the financial constraints, it is noteworthy that since NWO provides funding for Open Science, TU Delft OS will extend support to all initiatives, not just those prioritized for 2024.

Concurrently, the team will work on preparing an outlook for 2025–2028 this year, recognizing that a multi-annual perspective is essential for attracting qualified staff to support the efforts leading to a cultural shift in the way research and education are conducted at TU Delft: the transition to 'open' as default.

This annual workplan outlines the course for 2024 along with the corresponding budget, addressing:

- **Governance;**
- **Policy Alignment;**
- **Open Education;**
- **Civic Engagement;**
- **Open Hardware;**
- **Open Science NL;**
- **Budget.**

Governance

Steering Group

The composition of the steering group included so far:

- **Faculty Dean** Jan-Dirk Jansen;
- **Director Services** Sasha Kroonenberg;
- **Director Library** Irene Haslinger;
- **Project Manager OS** Frank van der Hoeven.

Jan-Dirk Jansen completed his term as dean and will be replaced in the steering group by Stefan Aarninkhof, the new dean of the Faculty of Civil Engineering and Geosciences.

According to the new Open Science Program, approved by the board, we will onboard new steering group members. In 2024 we will include a representation of:

- **Rewarding & Recognition;**
- **Knowledge Security.**

Chiefs of Open Science

TU Delft was and will be represented in the regular meeting of the Universities of the Netherlands (UNL). This meeting is called the Chiefs of Open Science meeting or COS in short. TU Delft is represented by:

- **Programme Manager OS** Frank van der Hoeven;
- **Director Library** Irene Haslinger.

TU Delft was and will be represented in the regular meetings of the [International Network of Open Science & Scholarship Communities](#) (INOSC) as well as its [Dutch chapter, Open Science Communities in the Netherlands](#) (OSC NL). TU Delft is represented by:

- **Engagement Manager (OSCD)** Tanya Yankelevich.

The same Community Engagement Manager represents TU Delft in the National Citizen Science Network (CS NL), that meets twice annually and holds ad-hoc meetings throughout the year.

TU Delft is also represented in the [Dutch Association for Science Museums](#) (VSC network) by:

- **Director of the TU Delft Science Centre** Michael Van Der Meer;
- **Content Manager, Coordinator WaterLab, TU Delft Science Centre** Marit Bogert.

Policy Alignment

The team will schedule regular meetings with programs and initiatives in and outside TU Delft that are essential for making Open Science mainstream at TU Delft, specifically:

- Rewarding & Recognition;
- Knowledge Security;
- UNL;
- Open Science NL;
- OSC NL;
- CS NL;
- VSC.

Open Education

The new TU Delft OS outlines three open education initiatives and one action:

Open Educational Resources

- *Open Interactive textbooks*

- Community & project manager: 12 h/week for 36 weeks – **€ 30.420** (€ 70 /h ex. VAT)
- Hiring of TA support: **€ 30.000**

Open Systems

- DigiPedia – **€ 20.000** (+ **€ 30.000 optional**)
- Follow-up commission to developer – **€ 50.000**
- Edusources / SURF – **No additional costs**
- TLS collaboration (Brightspace exploration – replacement 2026)

Open Pedagogy

- TLS collaboration – **No additional costs**
- *Grassroots / Open Education Stimulation Fund:*
 - Project grants: Projected – **€ 250.000**
 - Project management: 12 h/week for 40 weeks – **€ 40.700** (€ 70 /h ex. VAT)

Action: Facilitating grassroots initiatives

The 2023 Open Education Stimulation Fund is proving to be a success for the program. There are currently eleven projects halfway through their project term. The projects show that by organizing a good selection process, we can fund projects that are almost completely self-sufficient. We will therefore organize a yearly Open Education Stimulation Fund call during the entire program term of OSP Next. To facilitate this process, the advisory board members of the open education program pillar will serve as reviewers. To facilitate the grassroots call, we require a project manager (0,4 FTE), to manage the following tasks:

- Organizing the yearly call;
- Putting together a review board;
- Organizing the promotion of the call for proposals;
- Organizing the review process;
- Organize kick-off sessions, mid-term evaluations, final evaluations for the projects;
- Create and manage a community around the projects;
- Yearly evaluation of the Open Education Stimulation Fund.

The project manager will manage these activities together with a project team including an OE specialist and a communications expert.

Open Hardware

Open Hardware includes eight initiatives in the TU Delft OS:

- **Open Hardware Academy;**
- **Open DEMO;**
- **Open Dreamhall;**
- **Faculty Support;**
- **The Open Hardware Uncompetition;**
- **Open Hardware Stimulation Fund;**
- **Open Hardware Masters and PhD;**
- **(Inter)National Knowledge Exchange.**

Open Hardware will focus on three initiatives/actions in 2024:

Action 1. Open Hardware Academy

The academy will run once in the fall of 2024. The aim is to embed the existing open hardware academy training within the doctoral education of the TU Delft Graduate School with appropriate GS credits assigned to it.

For 2024, we initiate the process of engagement to convert the open hardware academy to an elective available as part of the curriculum for Masters and PhDs. This work is laying the foundation for reaching that goal.

Funding: € 10.000, for development of curriculum and external open hardware experts to teach and mentor.

Action 2. Open Hardware Stimulation Fund

Stimulation of open hardware projects through funding in various ways. This has three different tracks, they are

- Funding for projects looking to convert to open hardware from their current state, similar to the open hardware funding support provided for the Schistoscope project previously.
- Funding for replication of open hardware projects and support for education, involving funding for replication of existing open hardware projects and updated documentation for the same.
- Support for Masters thesis projects and internships but providing funding to students and to mentors to support the students in their projects.

Funding:

Track 1 - € 5.000 per project, maximum ten projects: € 50.000.

Track 2 - € 2.000 per project, maximum ten projects: € 20.000.

Track 3 - € 5.000 per thesis, maximum three thesis projects: € 15.000.

Action 3. (Inter)National Knowledge Exchange

Follow up on the position paper written last year and continue collaboration with national and international open hardware communities. Continue the current community engagement and enrichment activities around open hardware at TU Delft.

Funding: € 5.000 for travel and organizing events and talks.

Civic Engagement

TU Delft hosts several initiatives designed to engage local and international communities in research, education and/or collaboration. These include:

TU Delft Science Centre, TU Delft Global, TU Delft OS, TU Delft Library, Green Village, Climate Action Program, Studium Generale, WaterLab, Delft X, Botanical Garden, Open Hardware.

In order to coordinate the efforts of these initiatives and align the agenda to guide TU Delft towards a more civic university model, we proposed creating a Civic Engagement Hub. The Hub will serve as a connecting space (both online and offline) for researchers, teachers, students, support staff, and society, facilitating collaboration and co-creation for impact and mutual benefit. As such, the Hub will not only include TU Delft initiatives, but also partners such as the local municipality, public library and civil society organisations.

The concept of hubs to foster Citizen Science and societal participation in research is closely tied to the idea of Science Shops in various parts of the Netherlands. This model has also been discussed with NWO, which is currently developing a funding model for Citizen Science and has received positive feedback. However, the tools and resources needed to effectively engage in Citizen Science and participatory research are pertinent to other initiatives beyond Citizen Science.

The Civic Engagement Hub will focus on the following areas:

- Citizen Science and Participatory Research;
- Public Engagement;
- Science Education & Science Communication.

FOCUS 1: Civic Engagement Hub activities

- **Co-Creation – No additional costs**
Sessions will be organised with all TU Delft and external partners to set up the scope of cooperation, coordinate initiatives and establish a working mode for effective collaboration.
- **Civic Engagement Training - €36.000**
A training programme on different aspects of Civic Engagement will be designed in coordination with the extension school, as well as other relevant CE Hub partners. Other partners are expected to contribute to this training financially and/or in-kind. Participants may be expected to pay a small fee to secure attendance. This budget will be used to hire an expert to support content design and training delivery.
- **Content and Administrative support - € 33.700**
A content expert(s) will be hired on an ad-hoc basis to provide Civic Engagement support to the Hub and the researchers whenever needed.
2 student assistants will be hired to provide communications and administrative support for the Citizen Science community, CE Hub and training development.
- **Civic Engagement Champions roster – No additional costs**
A database of specialists in Civic Engagement topics willing to support researchers will be created.

- **NWO funding application support – No additional costs**

Upon request support for researchers who apply for NWO funding with projects related to Civic Engagement will be provided to facilitate funding acquisition and effective implementation.

FOCUS 2: Citizen Science-specific activities

- **Guidelines for Citizen Science – No additional costs**

Citizen Science-specific guidelines for researchers at TU Delft will be co-designed in consultation with all relevant partners.

- **CS service 1 prototype: collaborative problem statement development**

This service is the result of co-creation sessions with CS researchers at TU Delft and will be developed in 2024.

- **CS service 2 prototype: showcasing Citizens Science projects for their recognition and researchers' rewards - € 5.000**

This service is the result of co-creation sessions with CS researchers at TU Delft and will be developed in 2024. Costs will include infrastructure support and hiring a consultant.

- **CS services roadmap – No additional costs**

A comprehensive roadmap that encompasses a wishlist of services, derived from the collaborative co-creation sessions held with researchers in 2023 will be developed.

Open Science NL

Open Science NL (a NWO Regieraad) has published its work program for 2024 and 2025. The TU Delft OS team will actively support proposal development by members of the TU Delft community, but will also submit proposals itself.

We have already obtained a €100.000 grant to support the Open Science Community Delft (OSCD) for the period 2024-2027.

Currently we are in talks with the Erasmus University to jointly bid for a Citizens Science Hub in the corresponding call that is coming up in 2024.

In a similar fashion we plan to respond to all relevant calls for the full scope of the TU Delft OS program, including publishing, data and software.

Open Science Community Delft

The OSCD is supported by NWO with a € 100.000 grant for three years.

In addition, the OSCD has issued a grass roots call in the framework of its Mainstreaming Open Science Fund for the amount of € 50.000.

Budget

Open Education

Open Educational Resources

Open Interactive textbooks

- | | |
|-------------------------------|----------|
| • Community & project manager | € 30.420 |
| • TA support | € 30.000 |

Open Systems

- | | |
|--|----------|
| • DigiPedia | € 20.000 |
| • Optional | € 30.000 |
| • Follow-up commission to developer (optional) | € 50.000 |

Open Pedagogy

Grassroots / Open Education Stimulation Fund:

- | | |
|-----------------------------|-----------|
| • Project grants: Projected | € 250.000 |
| • Project management | € 40.700 |

Open education support

- | | |
|-------------------|----------|
| • Faculty support | € 86.839 |
| • Skills training | € 77.314 |

Subtotal € 565.273

Open Hardware

Open Hardware Academy	€ 10.000
------------------------------	-----------------

Open Hardware Stimulation Fund

- | | |
|-----------|----------|
| • Track 1 | € 50.000 |
| • Track 2 | € 20.000 |
| • Track 3 | € 15.000 |

(Inter)National Knowledge Exchange	€ 5.000
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Subtotal € 100.000

Civic Engagement

Civic Engagement Training	€ 36.000
Service 2 prototype	€ 5.000
Content and Administrative Support	€ 33.700
Subtotal	€ 74.700

Open Science Community

Mainstreaming Open Science Fund	€ 50.000
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Team

Program Manager	€ 61.000
Community Engagement Manager	€ 98.838
- OPUSH NWO (income)	- € 17.419
Communication	€ 19.269
Secretarial Support	€ 20.186
Grant Support	€ 20.487
Subtotal	€ 202.361

Total	€ 992.334
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OS Team

Project Manager
Executive Secretary
Community Manager
Communication Manager
Open Education
Civic Engagement
Open Hardware

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