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Research and Education in the Open Era

# TU Delft Open Science Programme 2024-2028

## Evaluation 2025 & Work Plan 2026

Frank van der Hoeven

Anke Versteeg

Tanya Yankelevich

Noopur Singh

Version 9-2-2026



## Colophon

**Title:** TU Delft Open Science Programme 2024-2028 Research and Education in the Open Era: Evaluation 2025 & Work Plan 2026

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# 1. Introduction

On 10 October 2023, the Executive Board adopted the TU Delft Strategic Plan Open Science 2024-2028 as the successor to the Strategic Plan Open Science 2020-2024. The Executive Board thereby recognised the strategic importance of the programme and endorsed the substantive design. However, the Executive Board also indicated that the level of ambition had to be determined in relation to the available financial scope in the current budget process with a multi-year perspective as a precondition. Based on this approval, an initial (significantly streamlined) annual work plan was drawn up. On 13 February 2024, the board approved the implementation of the first annual plan of the programme and requested and approved halfway through 2024 an additional programme for the years 2025, '26 and '27, as well as the budget for 2025. In summer 2025 the budget for both 2026 and '27 were approved. This document builds on the strategic choices as provided by Rob Mudde and as endorsed by his ad interim successor Hans Hellendoorn:

- Support and funding for Open Education, Open Hardware and Civic Engagement activities from the programme, with a clear focus on Open Education.
- An obligation to make an effort to obtain NWO funding for the full breadth of the programme and therefore also for Open Publishing, FAIR Data and FAIR Software.

Portfolio holder of the TU Delft Open Science programme is Hans Hellendoorn. The programme is coordinated by a steering committee and is managed by a small programme team. Chair of the steering committee is Irene Haslinger, director of TU Delft Library. The other steering committee members are Stefan Aarninkhof, Dean of the Faculty of Civil Engineering and Geosciences (representing all faculties); Sacha Kroonenberg, director of Education and Student Affairs (ESA; representing all university services), Peter Weijland, programme director Knowledge Security, and Frank van der Hoeven, who also chairs the Open Science programme team. This report consists of two main parts: Looking back on 2025 and showing the outline of actions and corresponding budget for 2026.

## 2. Evaluation 2025

### Context

In 2025, the foundation of the Open Science program was significantly broadened. Previously, the programme mainly involved staff from the Library and ICT. This year, more communities have become visibly active. A growing community is involved in projects in the Open Education Stimulation Fund (OESF), the Open Hardware Stimulation Fund, there is an active group developing Open Education Platforms (Interactive Open Textbooks + Teachbooks and Digipedia), and there is also the Open Science Community Delft (OSCD). It is important to build on this broadening in 2026.

### Focus

Over the past two years, the focus has been on:

- Open Education
- Citizen Science
- Open Hardware

Given developments in these domains and in the area of knowledge security (platform development, dataset creation), it makes sense to strengthen connections with FAIR Data and FAIR Software. Are all the Open Science and publishing platforms and systems being set up robust and secure? Does neglect of data management directly affect the risks faced by TU Delft?

### Core Team

The core team consists of Anke Versteeg, Tanya Yankelevich, and Frank van der Hoeven. Tanya Yankelevich will be on maternity leave (autumn 2025/spring 2026) and Anke Versteeg will retire (summer 2026). To ensure continuity in the day-to-day management of the program, a regular monthly meeting of key staff will be instated, starting off as the programme committee for the 2026 National Open Science Festival, that will take place in Delft on October the 14th.

### NWO – Open Science NL

The Open Science Program has taken responsibility for acquiring external funding. During the first OSP, we secured €250,000 for citizen science. We plan to continue this approach and obtain a substantial portion of the €20 million that NWO makes available annually.

### Recognition and Rewarding

The Recognition and Reward project in Delft includes a separate Open Science component, managed by the Open Science Program. The NWO Open Science program application to implement recognition and rewarding of open science activities was granted €50,000. This project will be carried out in 2025 and 2026.

## **UNL – Chiefs of Open Science (COS) Participation**

UNL organizes the so-called Chiefs of Open Science meetings, where managers of open science programs come together to discuss national policy matters. It is essential that TU Delft is represented at these meetings.

## **EUA/EGOS – European University Association / Expert Group Open Science**

Frank van der Hoeven represents UNL in the Expert Group Open Science of EUA.

## **Open Science Community Delft**

Work on the Delft Open Science Community continues and is strengthened through grassroots open calls and the establishment of a strong and diverse Community Board, ready to coordinate community efforts across all TU Delft faculties.

## **Open Education**

### **Digipedia**

The TOIPedia platform was used for several years until 2023 in the BSc and MSc programmes of the faculty of Architecture and Built Environment (BK). The aim of TOIPedia was to provide students with online tutorials to acquire skills in the use of software commonly employed in the professional field, which are also used extensively for course assignments. Having such a comprehensive reference database enables students in accessing materials at their own pace throughout their studies and beyond, and allows educators to focus on advanced instruction during classes. The technical solution (both backend and frontend) of the platform was becoming outdated, and thus a new solution was required.

As a collaboration between the BK faculty, the Open Science Programme and the Library, the new platform Digipedia was created. The platform is fully functional since the end of 2024 and has now completely replaced the former TOIPedia platform. Old content from TOIPedia has been migrated to Digipedia, and new content is continuously being added. The implementation of the technical solution within other faculties of TU Delft and beyond is considered amongst the plans for 2025, together with the enhancement of the platform with additional features.

Several groups at TU Delft recognised the potential of the new platform. The Digipedia platform was expanded in 2025 with support of the OSP to accommodate multiple faculties and groups beyond the BK Faculty.

### **Open Education Stimulation Fund (OESF)**

OESF is a grassroots fund that supports educator-led Open education innovations at TU Delft. The ambition of this fund is to lower the barriers to getting started in Open education, enable experimentation, and to turn local ideas into reusable learning resources that benefit students and educators across faculties. Through this approach, the fund also aims to grow the community of educators using open education practices and accelerate TU Delft's transition toward Open education.

In 2025, building on the momentum and outcomes of OESF 2024, TU Delft launched a new call for the **OESF** in late 2024. The call received **44 applications**, an increase of approximately 57% compared to the previous year. From these, **15 projects were funded**, with a total allocation of **€260,214**, supporting the involvement of **65 teaching and educational staff** in Open education projects across all faculties within TU Delft.

Below is the list of the expected outputs of OESF 2025. The selected projects can be classified into four thematic areas within Open education:

- Open technologies and tools for learning
  - Inclusive and sustainable education
  - Innovations in open pedagogy and methodology
  - Discipline-specific educational enhancements
1. *Flight Performance Analysis and Optimization: from Calculus to Computers-*  
 Carmine Variale (AE), Maarten van Hoven (EEMCS)  
 Development of interactive, openly accessible learning materials linking aircraft performance analysis with learnt mathematics. The outputs are designed to strengthen conceptual understanding, reduce reliance on black-box methods, and support long-term reuse and community-driven expansion by students and educators.
  2. *OREO: Open Robotics Education Online-*  
 Chris Pek (ME), Martijn Wisse (ME), Carlos Hernández Corbato (ME), Gillian Saunders (ME), Serdar Asut (ABE), Jordan Boyle (IDE)  
 Development of structured, open-access video modules and software tutorials for the MIRTE Master, an open-source educational robot platform, integrated into courses and an international summer school to enhance hands-on robotics learning and increase accessibility.
  3. *DelftTech Trials: Advancing Ethical Debate in Technology & Engineering Education-*  
 Fernando Secomandi, Florian Gerritsen, Patrick Van Delft (All IDE)  
 Development and dissemination of teaching materials supporting mock trials as an innovative pedagogical method for technology ethics in engineering education, integrated into TU Delft courses and shared for broader adoption in other institutions.
  4. *Open up the invisible: A collaborative, open, and interactive subsurface teaching laboratory for the geo-energy transition-*  
 Hemmo A. Abels, Philip J. Vardon, Auke Barnhoorn, Guy Dijkoningen, Alex Daniilidis, Joep E. A. Storms, Sebastian Geiger (All CEG).  
 Development of innovative, open-access teaching materials, combining a physical rock core display and an interactive digital platform, to teach subsurface properties, fluid flow, and modelling in TU Delft's campus geothermal system.
  5. *Embodied Engineering: Enhancing Learning and Well-Being Through Somatic Practices-*  
 Jagoda Cupac (CEG), Roel Schipper (CEG), Ilke Ercan (EEMCS)  
 Development of an open collection of somatic practice tools and exercises for

engineering students, designed to connect mind and body, foster holistic learning, enhance well-being and student engagement.

6. *Sourcery: A handbook of archival encounters-*

John Hanna, Carola Hein, Vicent Baptist, Léa Kayrouz (All ABE)

This project develops a living, evolving, and open-access platform and graphic-novel companion to teach architecture and urban history students archival research, guiding primary source use, creative exploration, and process-oriented learning within master's coursework.

7. *The Open Urban Analysis Guidebook: Morphology-*

Leo van den Burg (ABE), Claudiu Forgaci (ABE)

Development of the open Urban Analysis Guidebook, an interactive, open-access platform updating classic and contemporary urban analysis methods, enabling students to experiment with techniques, receive feedback, and share insights, integrated into multiple Bachelor and Master courses.

8. *Unlocking Robotics: An Open NLT Module for Tomorrow's Makers-*

Martin Klomp (ME), Cilia Claij (ME), Sander Haemers (AS)

Development of an open-access, modern NLT robotics module using the MIRTE open-source robot, including lesson materials, assignments, and videos. It is designed to provide hands-on STEM learning and strengthen the link between secondary and university robotics education.



Photo by Studio Oostrum

9. *Cross-faculty Alignment of Computational Design Education-*

Mehmet Ozdemir (IDE), Willemijn Elkhuisen (IDE), Zjenja Doubrovski (IDE), Wolf Song (IDE), Serdar Asut (ABE), Mariana Popescu (International stakeholder, MIT)

This project consolidates and upgrades computational design education across TU Delft faculties by aligning teaching approaches, expanding shared learning resources, and strengthening links between computational thinking, digital fabrication, and AI-supported design.

10. *Hands-on design of the energy transition-*

Natalia Romero (IDE), Abhigyan Singh (IDE), Razieh Torkiharchegani (IDE), Milos Cvetkovic (EEMCS), Jort Groen (EEMCS), Simon Tindemans (EEMCS), Despoina Georgiadi (EEMCS), Alex Neagu (Powerweb, cross-faculty), Remko Koorneef (EEMCS), Ingrid Mulder (IDE), David Keyson (IDE)

The project strengthens energy transition education by enabling students to analyse and evaluate realistic energy scenarios, including technical, societal, and justice aspects, through the enhanced open-access Illuminator kit, reaching learners across courses and MOOCs.

11. *Developing an open interactive book for Agent-based modelling using python-*

Omar Kammouh, Maria Nogal, Natalie van der Wal, Igor Nikolic, Jan Kwakkel, Martijn Warnier, Alexander Verbraeck (All TPM)

This project addresses the lack of a comprehensive Python-based agent-based modelling (ABM) resource by creating an open interactive textbook that combines ABM theory with hands-on Mesa examples.

12. *Developing a hybrid thesis preparation course for the TIL MSc program-*

Patrick Stokkink (TPM), Jan Anne Annema (TPM), Adam Pel (CEG), Bilge Atasoy (ME)  
Development of a hybrid thesis-preparation course, using open MOOCs and personal feedback sessions to make it flexible, personalised, and reduce staff workload.

13. *Bridging laboratory practice and mathematical modelling in Life Sciences and Technology-*

Rebeca Gonzalez-Cabaleiro, Cees Haringa, Rik Volger, Natalia Nadal-Aleman, Wessel de Kok (All AS)

Development of an open, interactive Jupyter textbook for Life Sciences & Technology BSc/MSc programme to address the challenges of low modelling skills, uneven programming skills, and inclusivity needs among students.

14. *Teaching Robotics in VR-*

Serdar Asut (ABE), Yke Bauke Eisma (ME), Alper Semih Alkan (ABE), Arno Freeke (XR Zone, Library)

Development of the open access, VR digital lab enabling accessible, self-paced robotics programming education with automated feedback, gamified exercises and course-based testing.

15. *Enhancing BuddyCheck: A Toolbox for Teachers to Analyze Student Peer Evaluation Data in BSc Electrical Engineering-*

Seyedmahdi Izadkhast (EEMCS), Ilke Ercan (EEMCS), Bahareh Abdi (EEMCS), Gillian Saunders (ME), Prem Sundaramoorthy (AE)

Development of shareable analysis tools and training materials for Buddy check at TU Delft to close data-analysis and reflection gaps, improving peer evaluation quality, group dynamics, student support, and more equitable teamwork.

## Other activities within OESF:

- Projects continued to receive active support throughout the year, coordinated by Project Lead, Marcell Varknoyi and Community Manager, Noopur Singh. Support included onboarding, check-ins, trouble shooting, community events, connecting with right support within university, and guidance on dissemination and reusability.
- To document and share the outcomes of the OESF 2024 cohort, a booklet was published compiling project stories and outputs: [OESF booklet 2024](#).
- Building on 2024 ambitions, OESF organised multiple community activities in 2025 to help OE practitioners within OESF to come together, share best practices, and learn from each other.

## Open Education Week 2025:

The Open Science Programme organised **Open Education Week 2025**, in collaboration with **Library Education Support** and the **Learning for Life** team. Across the week, workshops and events highlighted OE projects, achievements, strengthened awareness, and generated interest in Open Education among educators and students.



Photo by Robert Kroonen

## **Initiating an OE community:**

To broaden the community beyond existing initiatives (such as OESF and OIT), it was recognised that TU Delft would benefit from an umbrella Open education community for all educators who are curious about, are experimenting, or are actively advancing Open education. In response, an OE Community Kick-off event was organised towards the end of the year to bring together this wider group and understand their motivations and wishes for this community. There was a lot of Interest in the kick-off. In 2026, this OE community initiative will be taken forward.

## **Recognition and Rewards for Open Education:**

Within the broader Recognition & Rewards theme, the Open Science Programme contributed to efforts to ensure that Open Education and Open Science contributions are properly recognized and rewarded. A key milestone was the publication of the **Academic Development Guide (Academische Ontwikkelwijzer)** by the TU Delft Recognition & Rewards team that also includes Open science and Open education efforts.

In parallel, Noopur Singh and Franklin van der Hoeven continued work on an NWO-funded “Recognition & Rewards for Open Science” project focusing on generating awareness about recognition and rewards for Open science and Open education during hiring, promotion and annual evaluations; identifying staff needs, challenges, and institutional requirements to better recognize Open education and Open science contributions. This work aims to lower barriers for educators and researchers by strengthening the ecosystem of policies and practices that support engagement in Open education and Open science. The project findings will be published in a report that will be out after the first quarter of 2026.

# Open Hardware

## Open Hardware Stimulation Fund

The open hardware stimulation fund was created to support researchers and students in developing, documenting and publishing open hardware projects. The fund had a maximum grant of 5000 euros per project and could be used for material, personnel, manufacturing and documentation costs. The requirements for being a grantee was that the applicant be a researcher or student at TU Delft and the project must be documented and published openly. The projects could have a maximum length of 12 months. All the projects listed are not solely funded by the stimulation fund but rather utilize the fund for various open source hardware components that otherwise is not supported.

Researchers	Faculty	Position	Brief Description
Andres Hunt	ME	PI	Further development of 3D printed that employs a fine-resolution airbrush tool for material deposition. The stimulation fund will support in developing 3D print files, bills of materials and instructions that are required to replicate and use the system and make it widely available.
Benjamin Eimol Gonzalez Toledo	ME	PhD	Open-source and Open hardware modular bicycle data logger to study cycling situations that occur "in the wild".
Freek Pols	AS	PI	Educational escape room for TU Delft's teacher education programme.
C.J.M. Verhoeven	EEMCS	Associate Professor	Further development on visually appealing open-source swarm robot capable of primitive, animal like interaction with humans.
Stephanie Tan	EEMCS	PI	Collaborative project between EEMCS and ME on GelSight which are currently closed source to understand working principles and creating open source output.
Roberto Merino-Martinez	AE	PI	Low-cost wearable biometric sensors for use in PschoAcoustic Listening Laboratory and hardware design of low-frequency speakers to evaluate how the low-frequency noise emissions affect the human perception of sound.
Bas Flipsen	IDE	Associate Professor	Building multiple material determination stations to be used in courses, developed by graduate student at IDE.
Bart Horstman, Marco Rozendaal	IDE	Researcher, Associate Professor	Further development of soft, interactive robotic ball. Open source, easy to build robotic ball, built using only 3D printing and basic knowledge of electronics and programming.

Researchers	Faculty	Position	Brief Description
Bahareh Abdikivanani	EEMCS	PI	Developing an open source hardware toolkit for hands on module for NLT module for Dutch VWO students.
Amir Hossijn Mohammad, Charlotte Frenkel	AE, EEMCS	Student, PI	Development of more efficient control system algorithms for control of drones in specific flight patterns. The system will be developed via flight and control simulation systems.
Pedro de la Barra Luegmayer	ABE	PhD	Development of open source environmental monitoring systems for classroom settings. A low-power monitoring unit that transmits data wirelessly and a simple in-class display, together they provide accessible, real-time environmental feedback to teachers and students, while also providing structured high quality data for scientific research.
Rubin Phillipart, Jelle Joustra	IDE	Student, Assistant Professor	Open source wind turbine blade scanner that can be mounted on a blade and be able to provide a full – 3D picture of the internal structure of the blade. The project was developed by Rubin as part of his bachelor’s project and is undergoing further development.

## Open Science Festival 2025

Delft open hardware community member was part of the program committee of the open science festival and supported the decision making and selection of sessions and speakers.

Part of the “Market Place” at the open science festival showcasing the support offered and results obtained by Open Hardware as part of the Open Science Program.

## Enhance collaboration on Open Hardware

Delft open hardware joined a collaboration with TU Berlin and Valencia Polytechnic University (UPV) – under Enhance alliance of European universities – to adapt and further develop the Open Hardware Academy course work for a 10 week spring school on Open Source Hardware. The course is scheduled for May 2026, including a week of in person classes in Berlin. TU Berlin had previously adapted the Open Hardware Academy for an in house course at the university.

# Citizen Science & Civic Engagement

## Citizen Science for Water (CS4Water) Conference

From 3–5 June 2025, TU Delft hosted the first international Citizen Science for Water (CS4Water) Conference at the Aula, co-organized with IHE Delft Institute for Water Education, Puls aqua, Earthwatch Europe, Groundtruth SA, TU Delft Global, and Waterlab. As host, sponsor, and one of the main organizers, TU Delft played a central role in shaping the programme and convening researchers, practitioners, and community partners from across the globe, including significant representation from the Global South. The conference successfully fostered knowledge exchange and collaboration on citizen science in water research and reinforced TU Delft's position in this field.



Photo by Robèrt Kroonen

## Civic Engagement Training

In collaboration with Erasmus University Rotterdam (EUR), Erasmus Medical Center (ErasmusMC), and with the support of Resilient Delta, the training programme Civic Engagement in Action: Empowering Researchers and Educators to Make an Impact was successfully implemented in 2025. The programme provided early-career researchers and educators with hands-on tools, frameworks, and case-based learning to meaningfully engage with societal partners. Building on local partnerships with NGOs and civic initiatives, the training also strengthened the long-term collaboration between TU Delft, EUR, ErasmusMC, and Leiden University through the emerging HIER network.

## **HIER: Hub for Impactful and Engaged Research**

In 2025, the joint application to the NWO Open Science (OS NL) programme was successful. Together with Erasmus University Rotterdam, Erasmus Medical Center, Leiden University, and Leiden University Medical Center, TU Delft received four years of funding for the HIER: Hub for Impactful and Engaged Research. The initiative will officially begin implementation in February 2026, providing structural resources to strengthen civic engagement and citizen science support for researchers.

## **Community Lunches**

The Citizen Science Community Lunches continued throughout 2025, offering spaces for researchers and practitioners to share experiences, exchange best practices, and connect across disciplines. Attendance remained strong, confirming the demand for peer-to-peer learning opportunities in civic engagement and citizen science.

## **Team Expansion and Transitions**

The Citizen Science team welcomed Saskia Postema (Project Manager Challenge-Based Education, TU Delft), who brings expertise in collaborative and student-led approaches to research and learning. The Science Center saw the departure of long-standing team member Marit Bogert; she was succeeded by Daniëlle Dekker, appointed by the Science Center to continue its representation in the team. Overall team lead Tanya Yankelevich went on maternity leave in October 2025, succeeded by the team member Jelle Burger (Program Developer Living Labs at the Innovation & Impact Centre) in the team leadership. These transitions ensured continuity while broadening the expertise of the team.

## **Citizen Science Knowledge Exhibition**

Building on the framework for recognizing diverse types of knowledge generated in citizen science projects, a project team was established to develop a Citizen Science Exhibition. Partners include the Science Center, the Library Heritage Team, the Open Science Programme, the Innovation and Impact Centre, the Communications Department, and the Green Village. An external exhibition designer was hired to co-develop the exhibition with the team. The exhibition will raise awareness of the multiple forms of knowledge emerging from citizen science and will be launched in April 2026.

## **Support for Researchers**

The CS team provided tailored support to research teams applying citizen science and civic engagement methodologies. In 2025, Tanya Yankelevich supported the NWA application ABEL (Ab-initio Biowaste Loop) by guiding the consortium in developing a citizen engagement methodology and preparing project members for the interview process. The project was awarded €6.7 million in funding from the Dutch Research Agenda. This success highlights the importance of integrating societal perspectives into large-scale research and innovation initiatives and the need for methodological support for various research groups at TU Delft and beyond.

## **Citizen Science MOOC**

The TU Delft Citizen Science MOOC was successfully converted into a self-paced model, making it more accessible to a wider audience of learners globally. The new format ensures

sustained access to knowledge and training materials for researchers, educators, and practitioners interested in engaging citizens in science.

## National and European Networks

The TU Delft Citizen Science team remained an active contributor to both national and international networks. At the national level, the team continued to play a leading role in the CS NL network and the Embedding Citizen Science in Higher Education Institutions working group. At the European level, TU Delft actively participated in the European Citizen Science Association (ECSA), strengthening international exchange and visibility.

## Open Science Community Delft – 2025

### Open Science Week 2025

In September 2025, TU Delft hosted the second National Open Science Week, supported financially by the NWO-funded OSCD project and the TU Delft Open Science Programme. The event brought together researchers, students, and practitioners to highlight the essential role of open science in accelerating scientific discovery and innovation.

The central theme — “Bridging the Gap Between Vision and Practice” — emphasized how open science principles, while widely supported, often present practical challenges for researchers. Workshops and discussions touched on civic engagement, reproducible workflows, knowledge security and rewards & recognition - each showing how open science principles translate into daily research practice.



Photo by Robèrt Kroonen

**The programme featured a diverse set of activities, including:**

- A hands-on reproducible research workshop using code notebooks;
- A panel discussion on Knowledge Security and Open Science;
- A training session on Why Civic Engagement Matters and How to Do It Right, and
- A co-creation workshop on shaping future Recognition & Rewards systems for Open Science.

**The week also celebrated achievements and created spaces for recognition and exchange during the 2025 Open Science Annual Meetup:**

- The [2025 TU Delft Open Science Awards Ceremony](#) honored students and early-career researchers whose initiatives promote transparency, reproducibility, and inclusion.;
- Community pitches and a poster session provided a platform for cross-faculty projects and initiatives, further strengthening the network.

As biomedical scientist Diana Putavet reflected: *“I was delighted to find such a welcoming atmosphere in the Delft community... it was inspiring to see so many talented researchers recognised for their contributions to Open Science.”*



Photo by Robert Kroonen

The success of Open Science Week reinforced the importance of community in advancing open science culture, while underlining that progress depends not only on policy but also on the everyday choices of researchers, educators, and students.

### **Mainstreaming Open Science Fund 2024–2025**

The Mainstreaming Open Science Fund, supported financially by the TU Delft Open Science Programme, continued to play a pivotal role in fostering grassroots innovation within the Open Science Community Delft. The fund enables bottom-up pilot initiatives that fall outside traditional research funding, focusing on either building communities around open science practices or advancing open practices across TU Delft faculties.

### Projects supported during 2024–2025 include:

- CeeSAA (Accessibility Assessment and Tool Innovation for Buildings, with and for persons with disabilities) – Stella Boess (IDE), Thaleia Konstantinou (A+BE), Neil Yorke-Smith (EEMCS).
- Centralizing Maker Resources and Initiatives at TU Delft – Aadjan van der Helm (IDE), Jerry de Vos (IDE), Martin Havranek (IDE).
- Community Archive for Innovative Teaching (CAIT) – Bianca Giovanardi (AE), Tom Viering (EEMCS).
- CompleteRxn (FAIR chemical reaction datasets) – Jana Weber (EEMCS), Gabriel Vogel (EEMCS).
- Open Living Review of Andreev States – Antonio Manesco (AS), Anton Akhmerov (AS).
- Open Source Oxygen Generator – Maarten van der Elst (EEMCS), Thijs Vlugt (ME).
- Open your ears (open-source software for sound design and assessment) – Roberto Merino-Martínez (AE), Elif Özcan Vieira (IDE), Josephine S. Pockelé (AE), Renatto M. Yupa Villanueva (AE).
- ORCHARD (open-source robotic grippers for fruit picking) – Chris Pek (ME), James Byng (TU Delft Botanical Garden).

These initiatives demonstrate the creativity and breadth of TU Delft's open science community, ranging from accessibility and robotics to open educational platforms, sustainable technologies, and new models of scholarly communication.

A new round of funding (2025–2026) has been launched, with results and project announcements to follow in the coming year.

## Proposal support NWO Open Science Funding

In our annual plans for 2024 and 2025, the Core Team stated that one of the secondary goals of maintaining an Open Science program at TU Delft is to promote and facilitate the acquisition of external funding. This has resulted in a substantial (not even complete) list of funding opportunities, which is shown below:

### 2024:

#### Open Science Training

Funding: NWO grant of € 50.000 (12 months)

Start Date: September 2024

Contact: Paula Martinez Lavanchy

#### Rewarding and recognition & Open Science

Funding: NWO grant of € 50.000 (12 months)

Start Date: January 2025

Contact: Frank van der Hoeven

## **2025:**

### **Open Publishing (Diamond Publishing)**

Funding: NWO grant of €300,000 (24 months)

Lead: TU Delft

Partners: University-led publishers of Groningen, Radboud, Tilburg, Maastricht, TU Delft, and associated publisher Leiden

Start Date: December 2025

Contact: Just de Leeuwe

### **Open Science Life Language Models**

Funding: 2-year project

Lead: TU Delft (Santosh, Open Hardware), together with SURF, VU and Tilburg

Start Date: February–March 2026

Note: A dedicated session will be organized at the Open Science Festival

Contact: Santosh Ilamparuthi

### **Data Reuse**

Funding type: TDCC

Lead: Erasmus University

Partners: TU Delft

Focus: Reuse of research data

Contact: Santosh Ilamparuthi

### **Open Educational Resources Platform**

Type of funding: Npuls

Focus: to modify and expand the current OpenCourseWare platform

Lead: TUD Library

Contact: Roeland Loggen

### **Support Structure for OER Authors**

New funding to establish support for creating interactive textbooks and teaching materials, and to build publishing infrastructure

Lead: TUD Library

Contact: Roeland Loggen

### **DigiPedia**

Funding type: Convergence

Funding Recipient: Urbanism Department, TU Delft

Focus: Expanding the scope of DigiPedia

Contact: Department of Urbanism (BK)

### **Civic Engagement Training**

Funding type: Convergence

Funding amount: around €40.000 (2 years)

Focus: Civic Engagement in Action training – project kickstart funding

Lead: TU Delft (Tanya)

Partners: Erasmus University and Erasmus MC

Start date: April 2026

Contact: Tanya Yankelevich

### **HIER Hub: Hub for Impactful and Engaged Research**

Funding Type: NWO (OS NL)

Funding amount: €400.000 (4 years)

Focus: creation of a cross-university support hub for researchers and teachers who want to be more civically engaged in their work

Lead: Erasmus University

Partners: TU Delft, Erasmus MC, Leiden University, Leiden MC

Start date: 2 February 2026

Contact: Tanya Yankelevich

### **Citizen Voices in cLIimate Action (CIVILIAN)**

Citizen engagement is crucial for achieving climate goals in cities. Digital platforms have a role to play, but existing platforms are generally commercial and not citizen friendly. The CIVILIAN project addressed that gap by delivering an interactive interface for a citizen-engagement platform in climate action. Using an action-research approach, the work placed citizens at the centre of the process to ensure that the resulting interface met their needs. The interface was integrated into Citizen Voice, an open software platform for participatory mapping developed at TU Delft. The project also strengthened open-science practices by making software, documentation, and guidelines openly available.

Project leader: dr. J.E. Gonçalves

Time frame: 2024 - 2025

Research programme: Open Science Fund

Dossiernummer: OSF23.2.060

### **Open Archaeology Unconference**

Open Science offers the opportunity to make research more inclusive and transparent. Although many researchers are familiar with Open Science concepts, this awareness does not always lead to practical implementation. This event will bring together archaeologists from different subdisciplines to discuss the integration of Open Science into archaeological research and education. During the event, participants will collaboratively create resources to improve engagement with and adoption of Open Science in archaeology. The event will also explore how AI can be integrated into archaeological research in an ethically responsible way, ensuring that generated results are reproducible.

Project leader: dr. B.P. Bartholdy

Technische Universiteit Delft

Time frame: 2024

Research programme: Open Science Bijeenkomsten

Dossiernummer: 500.010.2412

### **Moisture Tracking for Climate Models: a Community Effort**

In this project, a research community collaborated to further develop several existing tools so they can track virtual water particles through the atmosphere within climate models. This has led to greater insight into the advantages and disadvantages of the different tools in terms of accuracy, computational speed, usability, and data storage. By applying Open Science principles, it is now easier to use each other's tools, learn from one another, and implement improvements. New users are now better able to assess which tool is most suitable for their specific research questions.

Project leader: dr. ir. R.J. van der Ent

Technische Universiteit Delft

Time frame: 2024 - 2025

Research programme: Open Science Fund

Dossiernummer: OSF23.1.02

### **Improved open-source sustainability of Pastas software through documentation, visualization, and AI-generated tests**

The open-source software Pastas is used to model groundwater level time series, for example, to determine the cause of low groundwater levels (whether due to extractions, lack of precipitation, or low river levels). The sustainable maintenance and application of Pastas have been improved by expanding the documentation, developing new examples of time series models in Europe and North America, implementing rigorous unit tests using artificial intelligence, and creating a new open-source visualization tool. These developments promote the use of open science in groundwater time series modeling worldwide while keeping the project manageable for the developers.

Project leader: prof. dr. ir. M. Bakker

Researchers: C Coccozza, C. Prins, I.E. Haagsma

Time frame: 2024 - 2025

Research programme: Open Science Fund

Dossiernummer: OSF23.2.024

### **Impuls Open Science Community Delft**

OS Week 2025: session on Why Civic Engagement Matters and How to Do It Right

Contact person: Tanya Yankelevich

Time frame: 2024 - 2027

Research programme: Open Science Communities

Dossiernummer: 500.050.202302

### **FAIR for AI**

**Enabling FAIR for AI: Infrastructure for Transparency and Reproducibility of Research Software**

Daniel Bangert, Technische Universiteit Delft

This project aims to make research data and software easier to reuse and reproduce, particularly in the field of AI. At present, shared software often lacks the necessary information to replicate results. The project enhances Djehuty, the repository platform of 4TU.ResearchData and Nikhef, to ensure transparency and long-term usability. It benefits researchers, data professionals, and policymakers by providing tools and guidelines for responsible sharing and use of software, especially AI models. It aligns with broader efforts to improve research practices and comply with regulations, making AI research more open, FAIR, ethical, and reproducible.

## **Integrating Successful Open Hardware Initiatives into Robust Infrastructure**

### **Open-source Hardware Infrastructure for The Netherlands (OSHNE)**

Isabelle Reymen, Technische Universiteit Eindhoven

Contact person: Frank van der Hoeven

Instrumentation and equipment are essential for scientific progress and are increasingly being developed as open-source hardware, in line with open science principles. This project aims to integrate successful Dutch open hardware initiatives into a robust infrastructure (OSHNE) through national coordination. This includes a centralized digital repository, training, and identification of existing open-source hardware. The project will have three phases: initiation, implementation and expansion, and long-term sustainability and refinement. In addition to making hardware more accessible for education, exploration, and reproducing scientific results, OSHNE could save money annually for scientific research.

## **More Openness in Software for Orbit Calculations**

### **The General Open Orbital Dynamics (GOOD) Platform**

Dominic Dirx, Technische Universiteit Delft

The GOOD platform addresses a critical problem in space research: the lack of openness in software for orbit calculations, which is often closed-source or application-specific. The rapid growth in data quality, quantity, and diversity is creating increasing bottlenecks across multiple fields, from space situational awareness and the safe operation of spacecraft to planetary science and the study of the origin and evolution of celestial bodies. By combining Tudat's open-source astrodynamics software with the scalable and traceable WISE system, GOOD enables a paradigm shift toward fully transparent, open, and reproducible archiving of data and solutions for diverse applications.

## **Better Alignment with Python**

### **OPynSim: A python-native library for interoperable biomechanical simulations**

Adam Kewley, Technische Universiteit Delft

OpenSim is the most widely used simulator for biomechanical research worldwide. Although it is free and open source, it does not integrate easily with the rapidly growing Python ecosystem, which is increasingly becoming the standard within open science. This project aims to simplify integration with Python by developing user-friendly, performance-oriented, and well-documented Python-native interfaces for OpenSim. In addition, a standardized "study" file format will be developed, enabling researchers to easily exchange models, input data, and analysis results within the community.

## **Thermisch comfort in Nederlandse en Italiaanse gebouwen**

### **ReACT: Replicating Adaptive Thermal Comfort Models Across European Climates**

Alessandra Luna Navarro, Technische Universiteit Delft

ReACT reproduces the groundbreaking 2002 study by McCartney and Nicol, which established the relationship between outdoor temperature and indoor thermal comfort in naturally ventilated buildings. In collaboration with TU Delft and the University of Perugia, researchers are examining whether adaptive thermal comfort models are applicable across different climates and ventilation strategies. Eighteen buildings in the Netherlands and Italy will be studied. The results will provide crucial insights for energy-efficient building design, contribute to revisions of thermal comfort standards, and support the development of climate-resilient indoor environments.

### **Strengthening the Dutch Research Portal and Institutional Repositories**

#### **DURF - Dutch Repository Federation**

Maurice Vanderfeesten, Vrije Universiteit Amsterdam

Contact: Alastair Dunning

The Dutch Repository Federation (DURF) will strengthen the existing Dutch Research Portal and institutional repositories/CRIS systems by making the availability of Dutch research more robust, thereby increasing academic resilience and sovereignty. Many article PDFs are currently missing from repositories. DURF will:

1. Integrate systems under shared governance
2. Enable enriched metadata feedback via the OpenAIRE Graph
3. Expand full-text collection
4. Preserve outputs via the National Library's eDepot
5. Maximize discoverability through channels such as OpenAlex, Google, and EOSC nodes
6. Improve expert/researcher search functionality via the Portal

This federation will form the backbone of open science in the Netherlands, ensuring FAIR Dutch research in a time of declining trust in science.

# 3. Year Plan 2026

## Context

In 2023, the Executive Board approved the TU Delft OS 2024–2028 program as the successor to the Strategic Plan Open Science 2020–2024. In doing so, the Executive Board recognized the strategic importance of the program and endorsed its substantive design. However, the Board also indicated that the level of ambition needed to be determined in relation to the available financial resources within the ongoing budget process, with a multi-year perspective as a precondition. In practice, this meant a significant scaling down of the program, with a particular emphasis on open education. As such, the program has operated with an annual expendable budget of around €1 million.

This document outlines the framework for the 2026 annual work plan of the Open Science Program. It has been prepared in connection with the budget process and indicates the financial scope available for the various program components.

It also incorporates several strategic recommendations from the steering group. Above all, it provides space for the TU Delft community to shape the content of the program. To this end, we issue specific open calls and strengthen the involvement of the open science community.

## Broader Base

In 2025, the foundation of the Open Science program was significantly broadened. Previously, the program mainly involved staff from the Library and ICT. This year, more communities have become visibly active. A growing community is involved in projects in the Open Education Stimulation Fund (OESF), the Open Hardware Stimulation Fund, there is an active group developing Open Education Platforms (Interactive Open Textbooks + Teachbooks and Digipedia), and there is also the Open Science Community Delft (OSCD). It is important to build on this broadening in 2026.

## Focus

Over the past two years, the focus has been on:

- Open Education
- Citizen Science
- Open Hardware

Given developments in these domains and in the area of knowledge security (platform development, dataset creation), it makes sense to strengthen connections with FAIR Data and FAIR Software. Are all the Open Science and publishing platforms and systems being set up robust and secure? Does neglect of data management directly affect the risks faced by TU Delft?

## **Core Team**

Given developments in these domains and in the area of knowledge security (platform development, dataset creation), it makes sense to strengthen connections with FAIR Data and FAIR Software. Are all the Open Science and publishing platforms and systems being set up robust and secure? Does neglect of data management directly affect the risks faced by TU Delft?

## **NWO – Open Science NL**

The Open Science Program has taken responsibility for acquiring external funding. During the first OSP, we secured €250,000 for citizen science. We plan to continue this approach and obtain a substantial portion of the €20 million that NWO makes available annually.

## **Recognition and Rewarding**

The Recognition and Reward project in Delft includes a separate Open Science component, managed by the Open Science Program. The NWO Open Science program application to implement recognition and rewarding of open science activities was granted €50,000. This project will be carried out in 2025 and 2026.

## **UNL – Chiefs of Open Science (COS) Participation)**

UNL organizes the so-called Chiefs of Open Science meetings, where managers of open science programs come together to discuss national policy matters. It is essential that TU Delft is represented at these meetings.

## **EUA/EGOS – European University Association / Expert Group Open Science**

Frank van der Hoeven represents UNL in the Expert Group Open Science of EUA.

## **Open Science Community Delft**

Work on the Delft Open Science Community continues and is strengthened through grassroots open calls and the establishment of a strong and diverse Community Board, ready to coordinate community efforts across all TU Delft faculties.

## **Open Education**

Over the past two years, dozens of initiatives have been launched in the field of Open Education. However, there are several policy blind spots that can be addressed:

- Where does substantive responsibility lie for creating and publishing Open Educational Resources (OER): lecturers, coordinators, Directors of Education, Library, publisher?
- Who ensures the quality of the material (content accuracy, copyright, plagiarism, proper use of CC licenses)?
- How much autonomy is allowed in the setup of new digital education systems within campus education?

## **Platform Consolidation**

Over the past two years, specific focus has been placed on the development of:

- Open Interactive Textbooks
- Teachbooks
- DigiPedia

How compatible and applicable are these? Are they unique to a group or faculty, or can they be used more broadly? What about security? Do they interact with other systems? What is required for maintenance and service?

## **Shifting Experimental OER to Curriculum**

The OESF has generated much positive energy, but we must ensure that the experience gained is not lost in dilution. In 2026, we will focus on opening (“flipping”) coherent parts of the curriculum, preferably full semesters or minors. Given a stable budget, opening semesters will lead to a more modest OESF call. These are interrelated processes.

## **Focus on Efficiency**

In the Open Education Stimulation Fund (OESF), we have seen projects where lecturers claim that students spend less time on assignments and progress further. Considering the efficiency gains TU Delft must achieve, efficiency will be a precondition for projects funded in 2026.

## **Better Safeguarding**

To better safeguard program activities, we will ensure connections between Open Education initiatives and TLS, the governance of digital strategy, and the knowledge security program.

## **Stimulation Fund**

In 2026, no call will be issued for the Open Education Stimulation Fund (OESF).

## **Open Courses**

The goal of the Open Course program component is simple. Instead of supporting individual educational materials (e.g., open textbooks), we aim to open coherent educational units: courses as part regular TU Delft Bachelor’s or Master’s programs or minors. This allows evaluation of experiences among both students and lecturers, identifying potential bottlenecks in implementation, opportunities, or cases where, for knowledge security reasons, it is better not to make the education open. The bigger picture aligns with the Npuls program goal: By 2032, all digital learning materials are accessible to everyone, always and everywhere, allowing everyone to use, reuse, and share knowledge.

Based on experiences with Open Courses, a clearer picture emerges of the effort required to make Open Education the norm in TU Delft campus education, supporting campus-wide rollout.

## **Interactive Textbooks and Platforms**

Separate from the aforementioned initiatives, the Open Science Program has been approached by lecturers for a variety of activities, ranging from creating open textbooks to further developing specific education platforms. This need will likely continue and may even grow as open education becomes mainstream.

Where platforms or systems are used, the OSP liaises with the lead for the education domain in digital strategy. We evaluate whether off-the-shelf open-source software can be used for open education.

Proposals for new platforms or systems are submitted to the governance of our digital strategy, which manages the education portfolio and sets priorities.

## Open Hardware / Community

We will seek in 2026 to link the DEMO department to the Open Science Programme as an 'natural owner' of the open hardware initiative.

### Open Hardware Stimulation Fund

The Open Hardware Stimulation Fund will, for the first time in 2024, provide a limited number of grants to researchers wishing to convert their projects into open hardware initiatives. The fund supports project development along open hardware lines, whether it is funding for building hardware, documentation support, or help maintaining research output. There is sufficient response to repeat the call annually.

### Mainstreaming Open Science Fund

The Mainstreaming Open Science Fund is an ad-hoc funding initiative for members of the Open Science Community Delft, made possible by financial support from the TU Delft Open Science Program. Its primary goal is to stimulate bottom-up pilot initiatives that fall outside traditional research funding and focus on one of two goals:

- Building community(ies) around Open Science Practices, or
- Promoting Open Science practices

### Open Design and Engineering (ODE)

TU Delft engages in Science, Engineering, and Design. The Open Science Program has focused largely on outputs typical for the Sciences. In 2026, we will explore (modest budget) whether Engineering and Design have characteristics requiring different policies, instruments, platforms, or frameworks. Are there gaps, or is everything covered? This exploratory study will result in a concise report.

## Civic Engagement and Citizen Science

In February 2026, the TU Delft Citizen Science team, consisting of Tanya Yankelevich (OSP, OSCD), Jelle Burger (I&C Center), Saskia Postema (Community Engagement, WijkUniversiteit), and Danielle Dekker (Science Center), will launch the Hub for Impactful and Engaged Research (HIER). This initiative, in collaboration with colleagues from Erasmus University, Erasmus Medical Center, Leiden University, and Leiden Medical Center, aims to strengthen citizen science across institutions.

While NWO has granted funding for four years, primarily for staff support and inter-university collaboration, the Open Science Program (OSP) budget is essential for carrying out activities at TU Delft. This funding will increase the local impact of the Hub and ensure alignment with OSP priorities in promoting and expanding citizen science initiatives.

Additionally, €20,000 has been obtained from Convergence to support the Training and Skills Development pillar, specifically for Kickstarter grants to finance participants in training.

Below is a detailed budget breakdown aligned with the main focus areas (FA's) of HIER's work.

Overall category	More detailed activity breakdown	Budget (in EUR)	Corresponding Focal Area within HIER
Implementation Support	Student Assistant	15.000	
Rewards & Recognition for Citizen Science	Citizen Science Exhibition	35.000	Institutionally Promoting & Embedding CE practices
	Data collection drive	5.000	Institutionally Promoting & Embedding CE practices
	Impact/CE day	5.000	Institutionally Promoting & Embedding CE practices
Training and skills development	Civic Engagement in Action training (TU Delft, Erasmus, Leiden)	2.000	Developing CE Capacity & Knowledge Exchange
Community Building	Community lunch sessions	1.000	Developing CE Capacity & Knowledge Exchange
Financing and Engaging student-led CS projects	Support grants, particularly in connection to CE and OH	17.000	Institutionally Promoting & Embedding CE practices

## Staff

Frank van der Hoeven	Programme manager
Anke Versteeg	Executive Programme secretary
Tanya Yankelevich	Citizen Science, OSCD
Noopur Singh	Open Education, Recognition & Rewarding
Marcell Várkonyi	Open Education
Reid Sczerba	Open Interactive Textbooks
Paige Folsom	Digital Literacy

# 4. Budget 2026

## Open Education

<b>Open Course</b>	<b>€ 40.000</b>
• Call for course to convert to open education	€ 40.000
<b>Interactive Textbooks and Open Systems</b>	<b>€ 50.000</b>
• DigiPedia	€ 50.000
<b>Subtotal</b>	<b>€ 90.000</b>

## Open Hardware / Open Community Grassroots

<b>Open Community Grassroot Fund</b>	<b>€ 120.000</b>
<b>Open Hardware Stimulation Fund</b>	<b>€ 80.000</b>
<b>Subtotal</b>	<b>€ 200.000</b>

## Civic Engagement

<b>Implementation Support (student assistant)</b>	<b>€ 15.000</b>
<b>Rewards &amp; Recognition for Citizen Science</b> (Exhibition, Data collection drive, Impact/CE day)	<b>€ 45.000</b>
<b>Training and skills development</b> (Civic Engagement in Action training)	<b>€ 2.000</b>
<b>Community Building</b>	<b>€ 1.000</b>

Student-led CS projects (Support grants)	€ 17.000
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<b>Subtotal</b>	<b>€ 80.000</b>
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## Team

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Programme Manager	€ 75.000
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Other(Communications, Meetings, Travel)	€ 20.000
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Staff	€ 495.000
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<b>Subtotal</b>	<b>€ 590.000</b>
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## Open Science Programme 2026

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Open Education	€ 90.000
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Open Community Grassroots	€ 120.000
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Civic Engagement	€ 80.000
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Open Hardware	€ 80.000
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Team	€ 590.000
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<b>Total</b>	<b>€ 960.000</b>
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