

TECHNO-ECONOMIC ANALYSIS OF CARBON MITIGATION TECHNOLOGIES CA21127

TrANsMIT COST Action Science Communication Plan 2026

We are happy to share our goals and activities planned for 2026. We would be delighted to see as much contribution as possible to the activities in the Science Communication Plan in 2026.

Meetings/Workshops

In the final year of the TrANsMIT Cost Action, we plan to organize a workshop on the open-access database on the CCUS technologies and prepare a report on the subjects. The workshop will be held at the KTH Royal Institute of Technology, Stockholm, Sweden, on the 3rd and 4th of March, 2026.

We plan to organize an online workshop on modelling methods in July 2026. The workshop will create an opportunity to present and discuss the state of the art regarding the modelling methods and strategies used in academia, industry, and within existing research projects.

Another online workshop is planned in September 2026, in which modeling practices and needs will be covered by process engineers from academia and industry (utilities, oil & gas, chemical, and cement), considering the various applications and systems involved in CCUS processes.

Conference

A conference will be organized to sum up the international studies, projects, and developments on the CCUS value chain. Hence, it will provide a wider network and collaboration opportunities within the CCUS community. The conference will be held in Warsaw, Poland, in September 2026.

Training School

We are planning a Training School that will be hosted by Politecnico di Milano (Milan, Italy) between 7 and 9 June, 2026. In the final training school of the TrANsMIT, the focus will be on advanced topics in CCUS and Carbon Dioxide Removal (CDR) technology assessment, including process modelling, TEA, and LCA.

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Webinar

Webinars are crucial for the dissemination of the activities and the studies related to the COST Action. Several webinars will be organized during the coming year focusing on process modelling, TEA, and LCA of the CCUS value chain.

Regarding LCA, two webinars are expected dealing with aspects still understudied for CCUS processes. One will concern the application of prospective and/or anticipatory LCA to CCUS processes, relevant as many are still under development. This webinar is planned for late April or the beginning of May. The other webinar that will be about the application of Social LCA to CCUS processes is planned for late February or early March, 2026.

STSM / VM / ITC

The call for short-term scientific mission (STSM), virtual mobility (VM), and inclusiveness target countries (ITC) grants will be announced throughout 2026 in the context of aims and deliverables of the TrANsMIT Cost Action.

TrANsMIT Database

The Open Access CCUS Database is a collaborative digital data repository for the global Carbon Capture, Utilization, and Storage community. Developed under the TrANsMIT COST Action, it moves beyond simple spreadsheets to create a shared space where researchers can obtain, store, validate, and compare complex data directly related to CCUS processes, covering everything from environmental footprints (LCA) to economic feasibility (TEA).

This database is a true community effort. It has evolved significantly through the dedication of TrANsMIT members and key collaborative workshops held in Zagreb and Dublin. While it is currently under active development, supported by the success of previous Virtual Mobility missions and fueled by upcoming rounds of funding, the project is moving steadily toward its goal. We are working hard to refine the platform and consolidate our shared knowledge, intending to officially release the database in Q2 2026 to help accelerate the global transition toward real-world climate solutions.