

Supporting Transdisciplinary Work in CBL

How can students be effectively supported in acquiring transdisciplinary competences within the context of challenge-based education?

Research Method

Preparation & Analysis

- Study of literature
- Analysis of past student reports
- Interviews with teachers and students

Design & Development

- Co-creation sessions, involving teachers and students
- Consultation with educational experts

Implementation & Evaluation

- Use of tools by teachers
- Evaluate usability and effectiveness
- Adapt tools

Parliament of Challenges

Goals

- Scaffold co-perspective taking and searching common ground related to stakeholders' positions in society.
- Scaffold co-framing by integrating value mapping to co-define societal challenges.



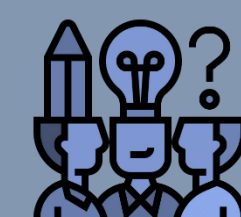
Format

- A workshop to scaffold the engagement of multiple stakeholders in defining and framing a set of societal challenges. Through a practical pretense exercise, participants nurture awareness of the complexity and interconnection of their position in society.
- Follow-up tutoring and feedback meetings

Transdisciplinary Working

Goals

- Understand how students, teachers, and external stakeholders experience transdisciplinary collaboration.
- Inform the design of a transdisciplinary learning community.
- Help establish effective life-long learning strategies.



Format

- A workshop in which metaphors are used to reflect on (in-class) experiences, disciplinary values, and individual learning goals.

Co-construction of Assessment Rubrics

Goals

- Create better understanding of core concepts and challenge features, such as transdisciplinarity.
- Provide more useful feedback in formative and summative assessments.
- Foster shared ownership of the challenge.



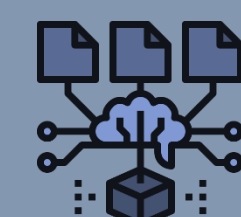
Format

- A workshop in which students and teachers co-construct single-point rubrics for assessing products of a transdisciplinary CBL project.
- Follow-up tutoring and feedback meetings

Conceptual Modeling

Goals

- Support students and stakeholders to systematically build individual and collective conceptual models of problems and solutions.



Format

- A series of activities including a lecture (awareness and vocabulary), workshop (theory and example), usage of the methods (usage and implementation), and individual and collective reflection.

Team

Klaasjan Visscher, Cristina Zaga, Robert-Jan den Haan, Deger Özkaramanli-Leerkes, Mieke Boon, Mariana Orozco, Adina Imanbayeva.