

European Project Semester

PROJECT OUTLINE

Project dates: March – June 2027

Title: MobHyDiq – design the future of mobility

Project activity areas: 3D mechanical design, electrotechnology, definition of communication medium.

Keywords: Mechanical design, communication, public attractivity

Tutor's name and coordinates

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Project origin

UTTOP

Project technical background:

With the aim of promoting sustainable mobility by enabling its employees to travel from one university site to another while reducing the carbon footprint of these journeys, UTTOP has invested in a hybrid vehicle (human-powered + battery-powered) called MobHyDiq. MobHyDiq can carry two people as well as cargo. Its battery can be recharged from the electrical grid or using a photovoltaic solar panel installed on the vehicle's roof. MobHyDiq is also a demonstration vehicle that enables UTTOP to showcase and communicate its ambitions in the field of energy transition.

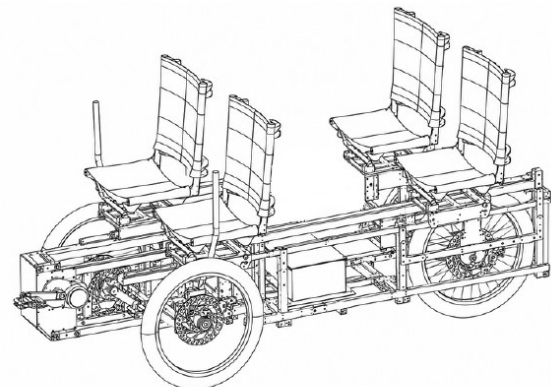
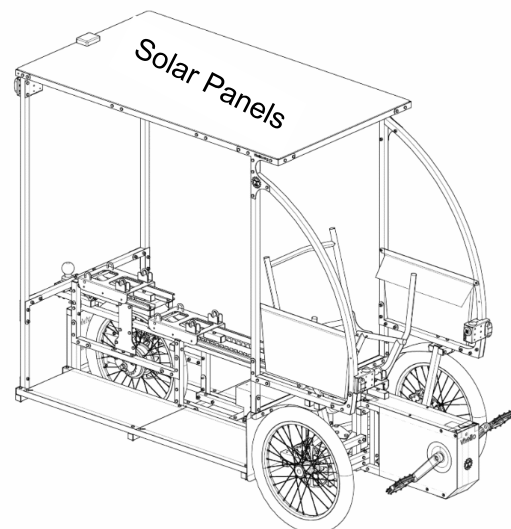


Figure 15 : véhicule à 4 places

UTTOP students have already worked on redesigning the vehicle so that it can carry up to four people. It is now time to envision the future of this vehicle so that it can be modular serve as both a promotional tool and a regional symbol of public engagement regarding new forms of mobility. The main focus of this project is to investigate how to publicly communicate and engage in public debate through MobHyDiq's circulation in the streets of Tarbes, and therefore the visual design of the communication media. The project should therefore make it possible to define the communication media to be added to MobHyDiq, their locations, their impact on the mechanical design, as well as their impact on vehicle handling and driving. The project could also assess the impact of the visual communication media on the public.

Studied topics:

- Definition of communication media.
- Analysis of the impact of communication media on mechanical design and on vehicle handling.
- Sourcing and procurement of the materials required to produce communication media
- Assessment of the impact on the public.
- Environmental analysis of this communication.