

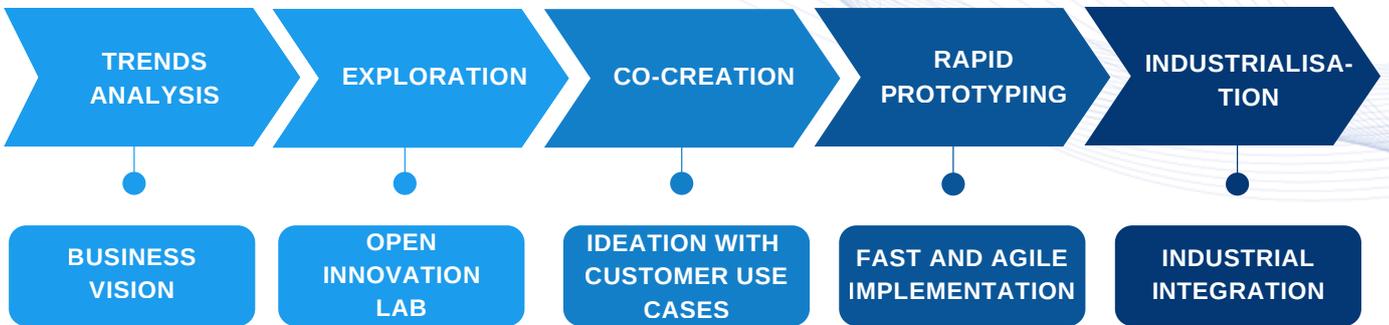


R&D

Innovation At GDTEch

FROM CONCEPT TO MARKET

Drawing on robust **scientific and industrial expertise**, GDTEch navigates the full innovation cycle to address the complex challenges of a **multi-sector, multi-physics** environment.



COLLABORATE WITH GDTECH

More than **50 publications** over the last 10 years !

- GDTEch is involved in **academic collaborations**, such as internships for students, thesis supervision, and participation in **conferences**.
- GDTEch participates in **numerous funded projects**, including regional, national, and European funding initiatives.

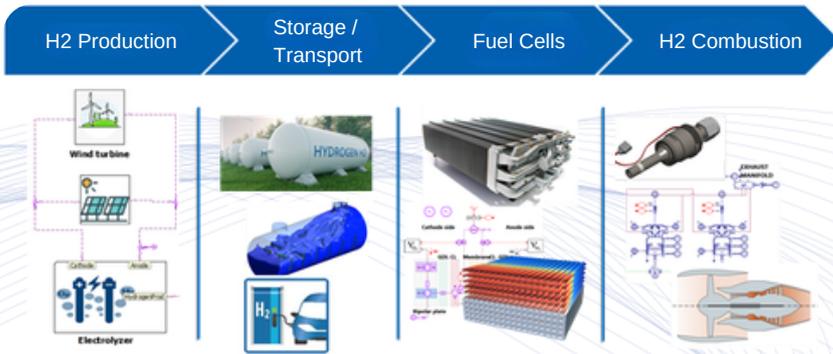


- GDTEch takes part in **numerous industrial collaborations, academic partnership**, and also provide **university-level instruction**.



Innovation at GDTech

OUR AREAS OF EXPERTISE



SCALE OP (2024-2028)

Audition du projet, 11 décembre 2023 à 11h30



GREEN ENERGY

SAF & GH2/LH2, Wind energy, Hydrokinetic energy

ECOLOGY

Integration of Electrical and Thermal Systems – Assessing Infrastructure Impact on Microclimate

INDUSTRIAL DIGITALIZATION

Digital twin and Advanced Simulation for real-time optimization in Industry 4.0

SAFETY

Explosion analysis, fire spread and suppression, hazardous fluid propagation

MATERIALS AND PROCESS

Manufacturability and mechanical properties of composites, including crash behavior, welding, and additive manufacturing

AEROSPACES TECHNOLOGIES

Clean Aviation, drones, and emerging air mobility technologies for sustainable flight



EXAMPLES OF R&D PROJECTS



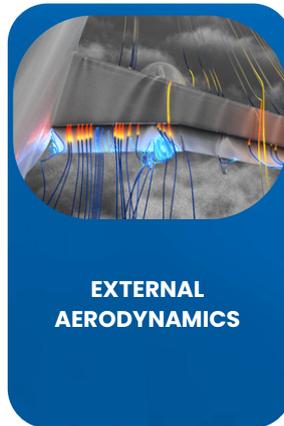
ADDITIVE MANUFACTURING AND TOPOLOGY OPTIMIZATION



DAMAGE IN COMPOSITE MATERIALS



AIRSHIP DESIGN AND SIZING



EXTERNAL AERODYNAMICS



PROCESS SIMULATION



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