



**Hydrogen Europe
Research**

Fuel Cells & Hydrogen Research in Europe

Hydrogen as Enabler for a Low-Carbon Society

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Our vision and mission

Hydrogen Europe Research aims to contribute to the achievement of carbon neutrality by accelerating the European hydrogen industry and ensuring high-level research in Europe. We actively support Research Institutes and Universities involved in the development of a new industrial ecosystem based on hydrogen.

Our mission is based on **4 pillars**:

RESEARCH

Supporting the excellence of European research on hydrogen and fuel cells

INFRASTRUCTURES

Enabling research & technology infrastructures to scale up and speed up innovation

SUSTAINABLE DEVELOPMENT

Ensuring sustainable development standards for a clean hydrogen ecosystem

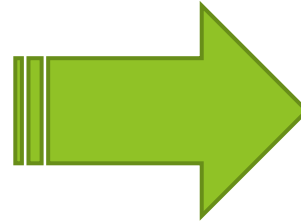
EDUCATION

Developing education and trainings to provide a skilled workforce for the European hydrogen economy

- **Hydrogen Europe Research in a nutshell**
 - 122 member organisations from 27 countries
 - 500+ scientists involved

Clean Hydrogen Partnership

In collaboration with the public and private members of the Clean Hydrogen Partnership, Hydrogen Europe Research participates to the identification of annual and multi-annual research & innovation priorities and the elaboration of research topics included in yearly Annual Work Plans.

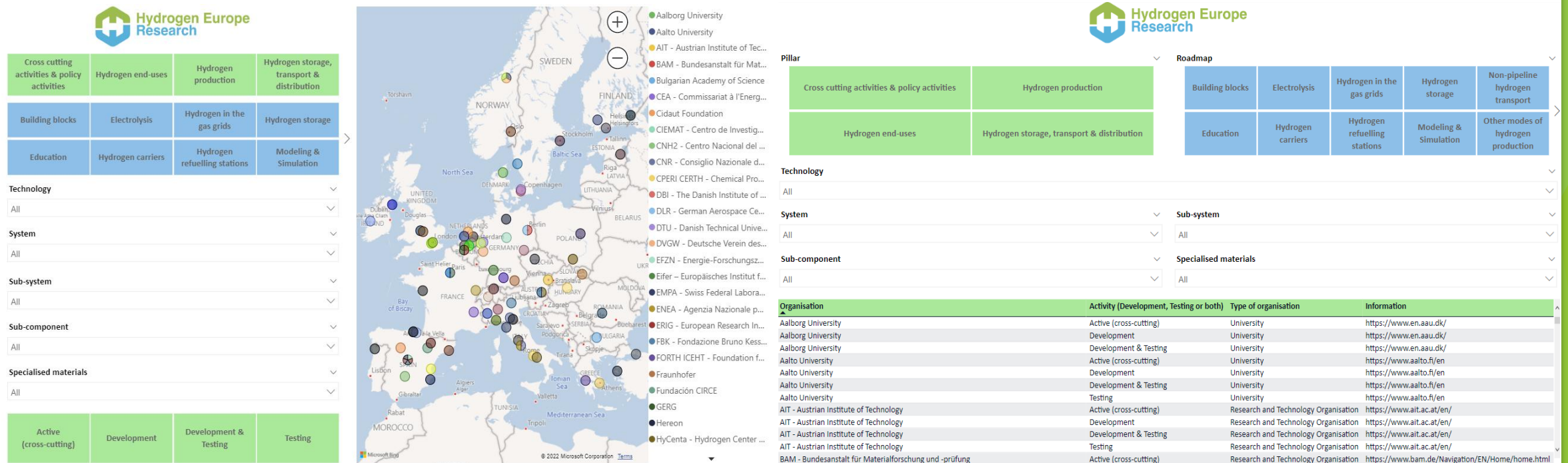



- **EC representation** – DG R&I, DG ENER and DG MOVE
- Total EU financial contribution to the Clean Hydrogen JU: 1 Billion €
- The **Strategic Research and Innovation Agenda (SRIA)** outlines the Research and Innovation activities that will be covered during the course of the Partnership

Other activities: Mapping of HER members' research activities and infrastructures

In 2022, HER launched two mapping exercises:

- A mapping on **the research activities** undertaken within each member organisation (beta version below)
 - A mapping of the **research and technology infrastructures** available within our membership (currently ongoing)
- Source of information for our members but also for discussions within the Clean Hydrogen Partnership and beyond





Cross cutting activities & policy activities	Hydrogen end-uses	Hydrogen production	Hydrogen storage, transport & distribution
Building blocks	Electrolysis	Hydrogen in the gas grids	Hydrogen storage
Education	Hydrogen carriers	Hydrogen refuelling stations	Modeling & Simulation

Technology

All

System

All

Sub-system

All


Sub-component


All

Specialised materials

All

Active (cross-cutting)	Development	Development & Testing	Testing
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Cross cutting activities & policy activities	Hydrogen production
Hydrogen end-uses	Hydrogen storage, transport & distribution

Technology

All

System

All

Sub-component

All

Organisation	Activity (Development, Testing or both)	Type of organisation	Information
Aalborg University	Active (cross-cutting)	University	https://www.en.aau.dk/
Aalborg University	Development	University	https://www.en.aau.dk/
Aalborg University	Development & Testing	University	https://www.en.aau.dk/
Aalto University	Active (cross-cutting)	University	https://www.aalto.fi/en
Aalto University	Development	University	https://www.aalto.fi/en
Aalto University	Development & Testing	University	https://www.aalto.fi/en
Aalto University	Testing	University	https://www.aalto.fi/en
AIT - Austrian Institute of Technology	Active (cross-cutting)	Research and Technology Organisation	https://www.ait.ac.at/en/
AIT - Austrian Institute of Technology	Development	Research and Technology Organisation	https://www.ait.ac.at/en/
AIT - Austrian Institute of Technology	Development & Testing	Research and Technology Organisation	https://www.ait.ac.at/en/
AIT - Austrian Institute of Technology	Testing	Research and Technology Organisation	https://www.ait.ac.at/en/
BAM - Bundesanstalt für Materialforschung und -prüfung	Active (cross-cutting)	Research and Technology Organisation	https://www.bam.de/Navigation/EN/Home/home.html



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Thank you
for your
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