



HYDROGEN IS TEAMWORK



**THE EUROPEAN
HYDROGEN HUB FOR
START-UPS, COMPANIES
AND RESEARCH**

A PROJECT FUNDED BY THE

Ministry of Economic Affairs,
Innovation, Digitalization and Energy of the
State of North Rhine-Westphalia



A PARTNER PROJECT OF



To enable the market ramp-up of the hydrogen economy, it is necessary to...

- Consider the entire **value chain**
- Turn the strategy of pilot projects in to an **ecosystem of solutions**
- **Connect** the entire the value chain both physically and digitally
- **Cooperate** across industries and sectors
- **Coordinate** investments and funding in a reasonable way

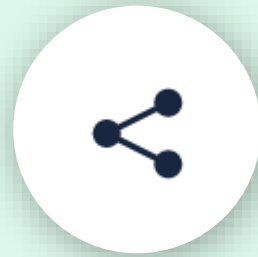


Use all available sources for innovation!

Which role do start-ups take on for the hydrogen economy?



To connect all parts of the H2 value chain, it is necessary to develop digital and innovative solutions next to developing hardware hydrogen technologies.



Start-ups are fast and agile and give important impulses for the industry. They are open for collaboration and provide disruptive ideas and concepts.



The H2UB connects stakeholders, provides start-ups with support to build their businesses, promotes cooperation, thinks and acts across industry and sector boundaries

H2UB IS ...



MATCHMAKER



STARTUP ACCELERATOR



LAB NET



THINK TANK



ECOSYSTEM BUILDER



SERVICE DESK

We are the **central platform** for hydrogen innovation. We **connect** start-ups with corporates and research institutions, and by this create a **cooperative, productive ecosystem.**

VISION

By focusing on start-ups, we **identify and unlock critical resources** for our H2UB partners to make an **innovative contribution** to the hydrogen economy.

USP

WHAT DOES H2UB OFFER FOR **START-UPS**?



Financing options by corporate partners, VCs and public funding



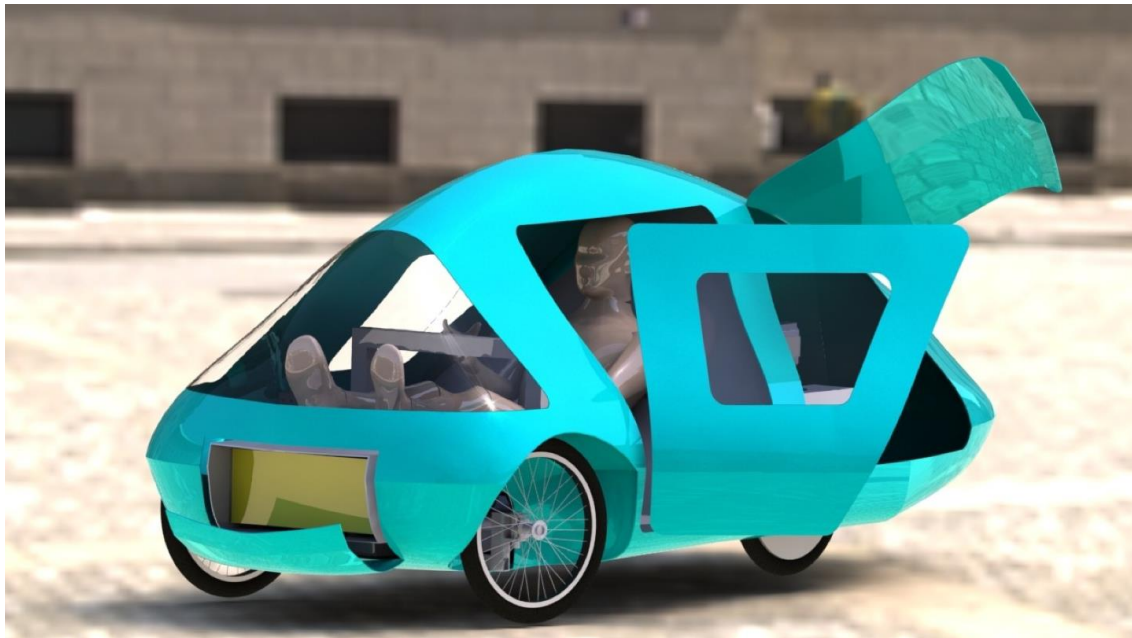
Incubation & acceleration until your idea is marketable



Comprehensive support along the entire innovation process



Support for building new competencies and a business network



”Ecogenium gives students the opportunity to learn about the hydrogen value chain, immerse themselves in mobility and storage, and get a feel for the industry and the challenges of a stable hydrogen economy.

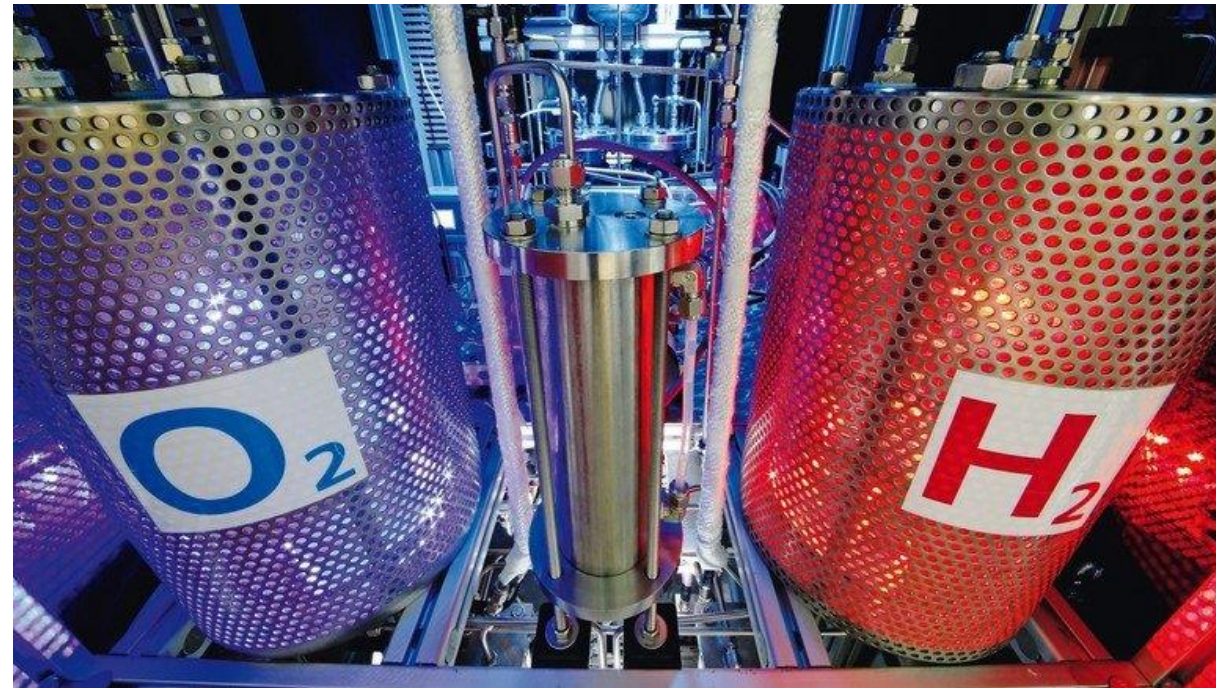
- Team of **40 students and researchers** from RWTH and FH Aachen University
- Development and production of an **H2 vehicle prototype**
- The goal is to participate in the international **Shell Eco-marathon**

“ mfc Micro Fuel Cells is one of a few companies and start-ups in the field of hydrogen technology that coordinates and markets the entire value chain, from the production of hydrogen and its storage to the exhaust-free combustion or oxidation of this gas to water in the fuel cell.

mfc develops, produces and markets individual components such as:

- H2 generators and H2 storage systems
- fuel cells for power generation
- battery-buffered hybrid systems
- turnkey, off-grid and complete power generators

$E = mfc^2$
Micro Fuel Cells
Brennstoffzellentechnologie



H2FLY



air taxi

4-6 passengers with ranges well over 500km



business aircraft

19 seat aircraft with ranges up to 1500km



regional aircraft

40 seat aircraft with ranges up to 2000km

”

H2FLY was founded in 2015 by five engineers from the German Aerospace Center (Deutsches Zentrum für Luft- und Raumfahrt; DLR) in Stuttgart and the University of Ulm and is paving the way for emission-free flying as a pioneer. The company develops hydrogen-electric propulsion systems for aircraft and is a global leader in the development and testing of such systems. With the test aircraft "HY4", H2FLY has already successfully demonstrated the applicability of hydrogen-electric propulsion solutions for aviation in several flight campaigns. The company is currently working on scaling the technology.

- In 2016, they completed the **maiden flight with the HY4**
- In the meantime, more than 40 employees and pioneers are working at the start-up, researching and developing **emission-free aviation**
- In 2020 the sixth generation of their powertrain was tested in-flight leading to long-endurance flights because of the highly redundant powertrain architecture

WHAT DOES H2UB OFFER FOR INTERNATIONAL STARTUPS?



Meet the European Startup Ecosystem of those dealing with the hydrogen economy



Get insight by joining our DeepDive Sessions and learn about the European Market and it's challenges



Peer to peer exchange with our startups



Join the network of corporates and scientific institutions and learn about cooperation opportunities

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ACCELERATION

BOOTCAMPS & SPRINTS

Planning of the Accelerator Program for Start-ups 2022

START-UP PROGRAMME

EARLY STAGE FOUNDERS

Early Founder Bootcamps

Intensive 5-day bootcamps for future founders to realize their own ideas.

From May

2x

EARLY STAGE START-UPS

Start-up Sprints

Intensive 10-week support sprints for early-stage startups from an selected industry sector with tailored support packages.

From April

2x

Entrepreneurs Club

Later Stage Club Evenings

Club evenings for later stage founders, innovators and start-up team members.

From June

2x

WHAT ADDED VALUE DOES H2UB OFFER FOR CORPORATES?



Early and exclusive access to innovation potential & new technologies



Investment opportunities in joint projects or directly in startups



Exchange of knowledge with other players in the industry



Building up a regional as well as an European hydrogen network



... and some more to join us soon!

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GET ACCESS TO THE
HYDROGEN ECONOMY
IN EUROPE AND
ACCELERATE YOUR
STARTUP!



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