

**Inland
Navigation
Week**



EU PROJECT: RH2IWER

ramping up the deployment of
zero emission vessels

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RH2IWER

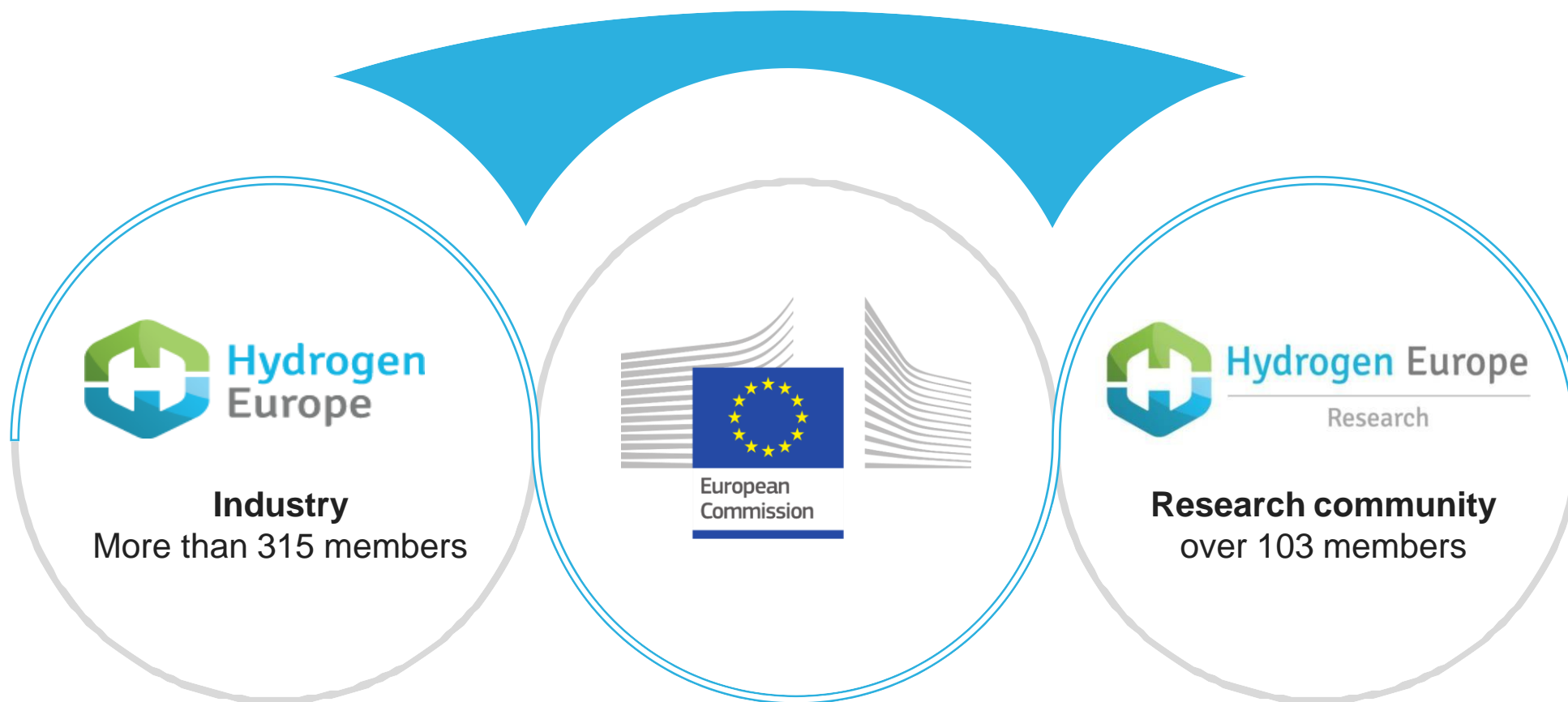
Renewable hydrogen (H₂) for Inland Waterway Emission Reduction

A project to create a basis for zero-emission shipping industry in Europe with 14 partners from shipowners, fuel cell manufacturers, H₂ gas supplier and knowledge institutions

- 1st of March 2023 – 31st of August 2027
- 20.5 million euro total costs of which 15 mln euro EU contribution from Horizon Europe Clean Hydrogen Joint Undertaking
- Project coordination by VTT
- Official information: <https://cordis.europa.eu/project/id/101101358>

Clean Hydrogen Joint Undertaking

EU Institutional Public-Private Partnership (IPPP)



1 billion EURO from Horizon Europe* to implement R&I activities and facilitate the transition to a greener EU society through the development of hydrogen technologies

*** additional 200 million EURO for Hydrogen valleys (under RePowerEU)**

Ships: towards larger vessels and better H₂ supply / storage

Building the pilots and experiments to speed up standards for waterborne applications



RH2IWER

The main aim: to create a solid basis for the **acceleration of hydrogen fuel cell powered vessels** in inland waterway shipping by **demonstrating six commercially operated vessels**:

- 86m, 110m and 135m
- Container, bulk and tanker vessels
- Power ranging from 600 kW to 2 MW.

The project will also work with **standardization** of containerized **fuel cell** and **hydrogen storage** solutions for easy integration and replication.

Market potential assessments will be made and an overall **plan for deployment** is foreseen including needs of support for later stages. This in view of closing the funding gap in a dynamic environment where hydrogen shipping becomes increasingly competitive with incumbent technologies.

A detailed **data monitoring strategy** enables evaluating the overall financial, environmental and technical performances.

RH2IWER consortium partners



Air Liquide



UNIVERSITÀ DEGLI STUDI
DI GENOVA

RH2IWER – vessels and routes

Dry Cargo vessels Tanker Container vessels

2MW
New built



0.6MW
New built



1.5 MW
Retrofit



0.6 MW
New built



1.8 MW
Retrofit



1 MW
Retrofit

Thanks for your attention

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