

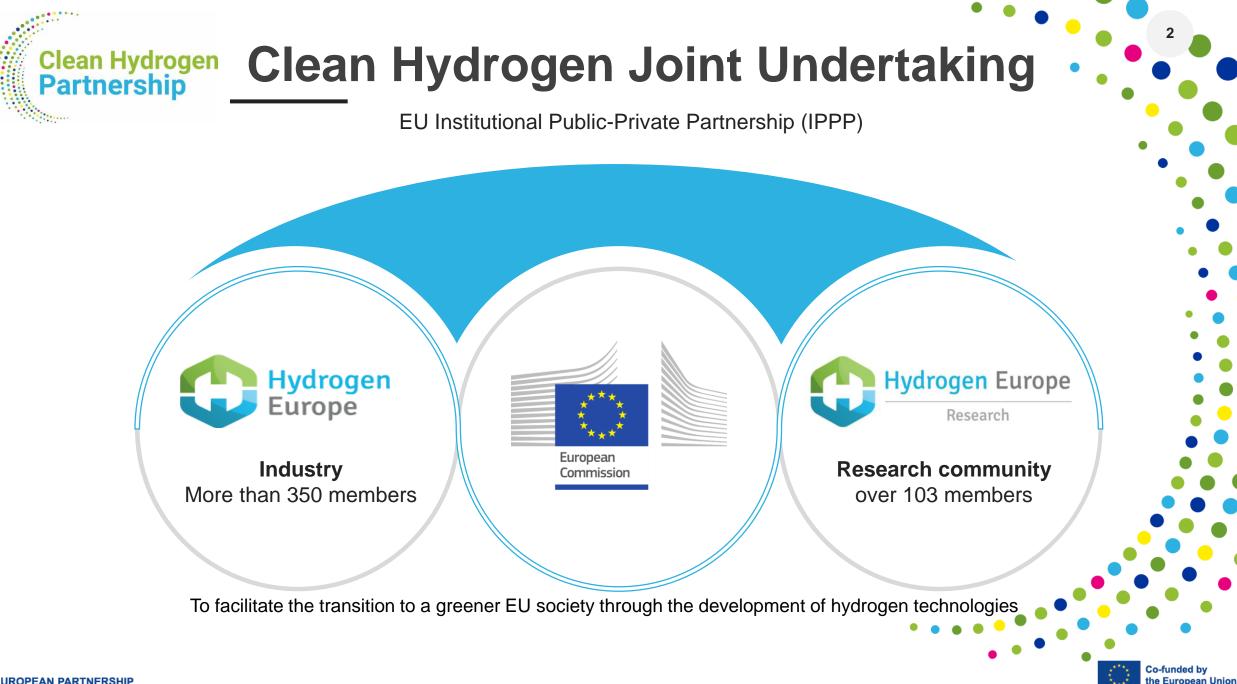
Clean Hydrogen JU General Presentation

Slides provided to Dr. A. Stubos for Greek-Bavarian collaboration in EU frameworks in the field of Hydrogen energy technologies

June 2022

EUROPEAN PARTNERSHIP

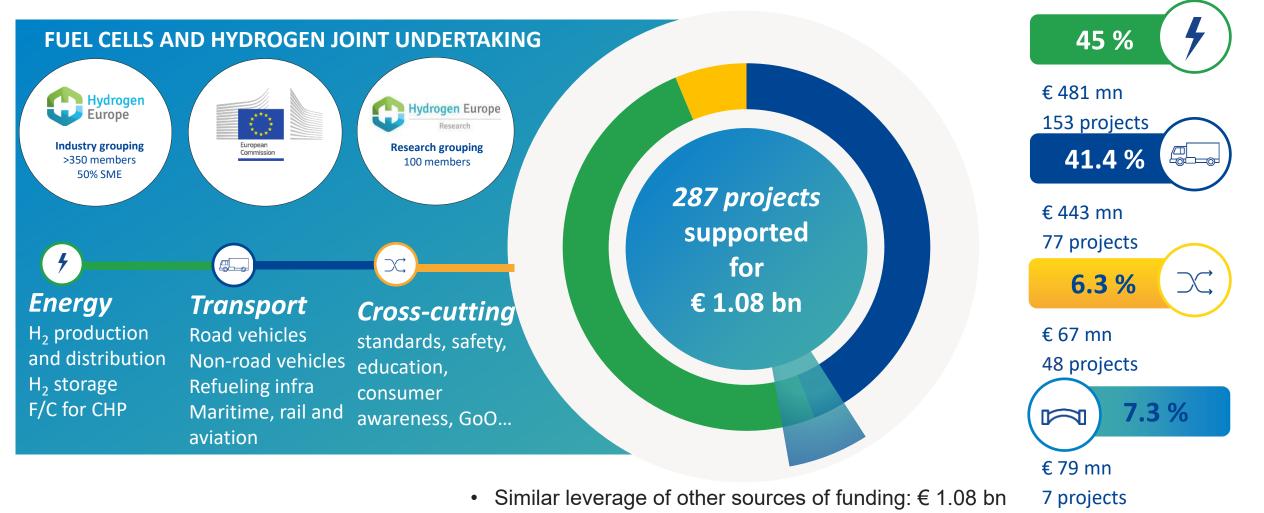






Legacy Fuel Cells and Hydrogen JU

A combined private-public of **more than 2 billion Euro** has been invested from 2008 to 2020 to bring products to market readiness



Co-funded by the European Union



Clean Hydrogen JU

Council Regulation establishing the Joint Undertakings under Horizon Europe (adopted 19 November 2021 & into force 30 November 2021)

- Budget: **1 billion EURO** from Horizon Europe (to commit until 2027 and implement until 2031)
- Governance: Governing Board (three members: Commission, HE, HER) + advisory bodies (SRG, SG)
- Need also to collect independent opinions of the wider scientific community, through a scientific advisory workshop (during H2Week/H2Forum)

Research & Innovation Activities (SRIA multi-annual doc)

- Renewable hydrogen production
- Hydrogen transmission, distribution and storage
- End-use technologies in transport, buildings and industry (incl. fuel cells, burners, boilers, etc.)



Clean Hydrogen JU Objectives

Support a sustainable hydrogen economy, contributing to EU's climate goals

Support the implementation of the Commission's Hydrogen Strategy

> Stimulate research and innovation on clean hydrogen production, distribution, storage and end use applications

A Contraction

Strengthen the competitiveness of the EU clean hydrogen value chain Contribute to the EU ambitious 2030 and 2050 climate ambition



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EU Hydrogen Strategy launched on 8th July 2020

Objectives in 3 phases with the Hydrogen Alliance to support the investment agenda

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Clean Hydrogen Alliance to support the EU investment agenda



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What is the Clean Hydrogen Alliance?

- Launched on 8th July 2020
- Mission to create a project pipeline for a massive role-out of EU Clean Hydrogen technology
 - Involving all active stakeholders in the clean hydrogen ecosystem, bringing together supply and demand

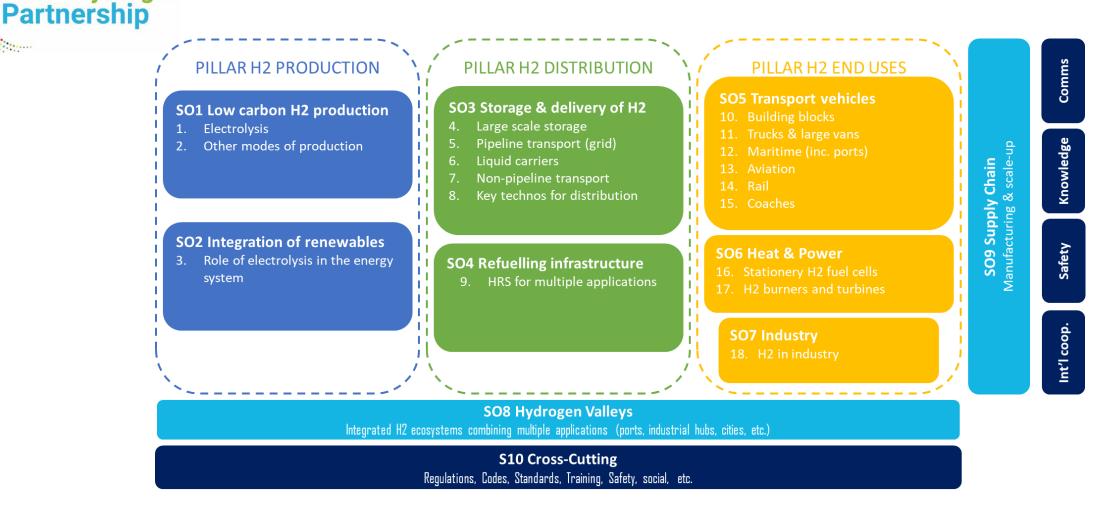
The blueprint estimates investments of €430 billion by 2030



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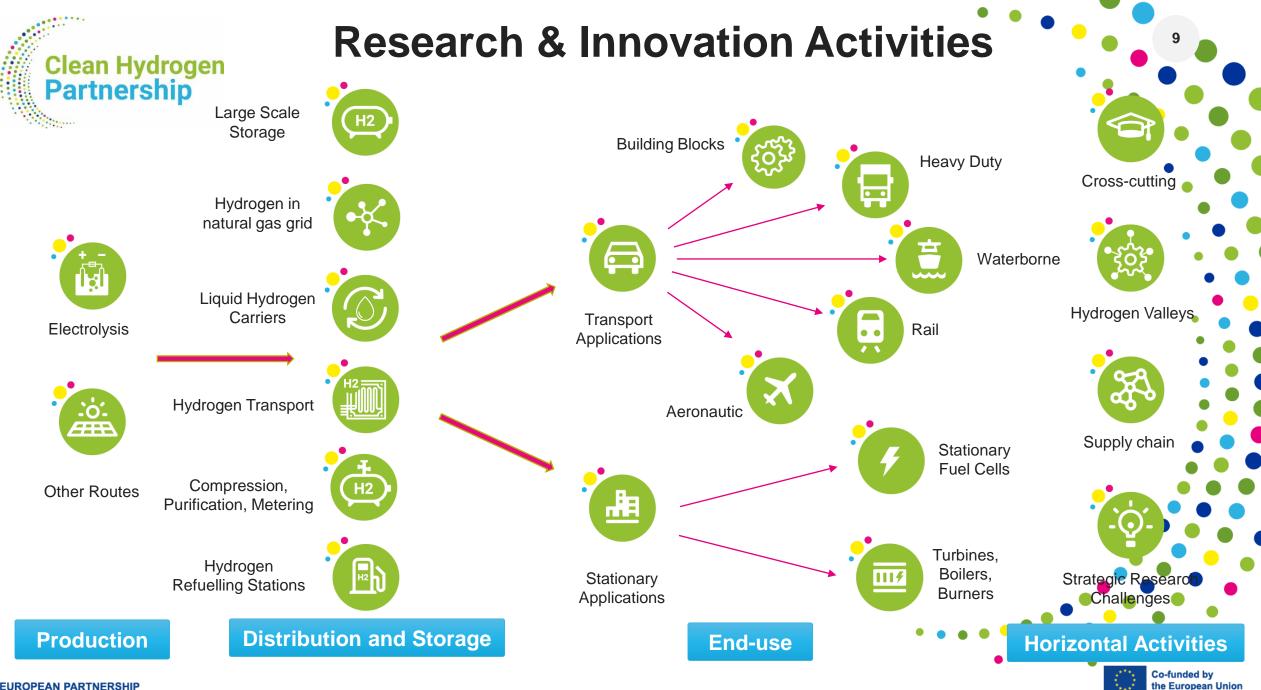
Research and Innovation priorities in Clean Hydrogen JU





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Clean Hydrogen

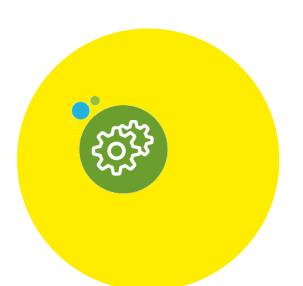


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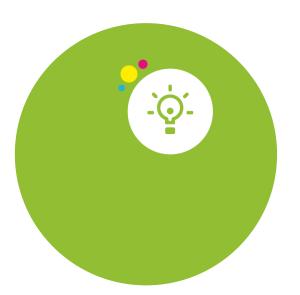


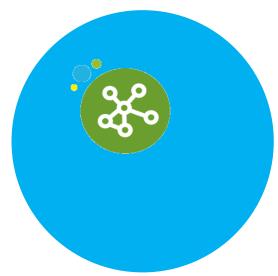
Scientific Priorities

Reaching out to the wider scientific community



The research and innovation activities of the Clean Hydrogen Partnership range from early research actions to large scale demonstrations.





Its independent opinions and advice will be gathered annually during H2 Week/Stakeholders Forum therefore further explored in the upcoming partnership.

The Clean Hydrogen Partnership relies on the wider scientific community (in addition to its member, Hydrogen Europe Research) to provide its expertise and suggestions on its research and innovation agenda.

