

POWERING EUROPE'S CLEAN HYDROGEN FUTURE: Clean Hydrogen Partnership funding opportunities

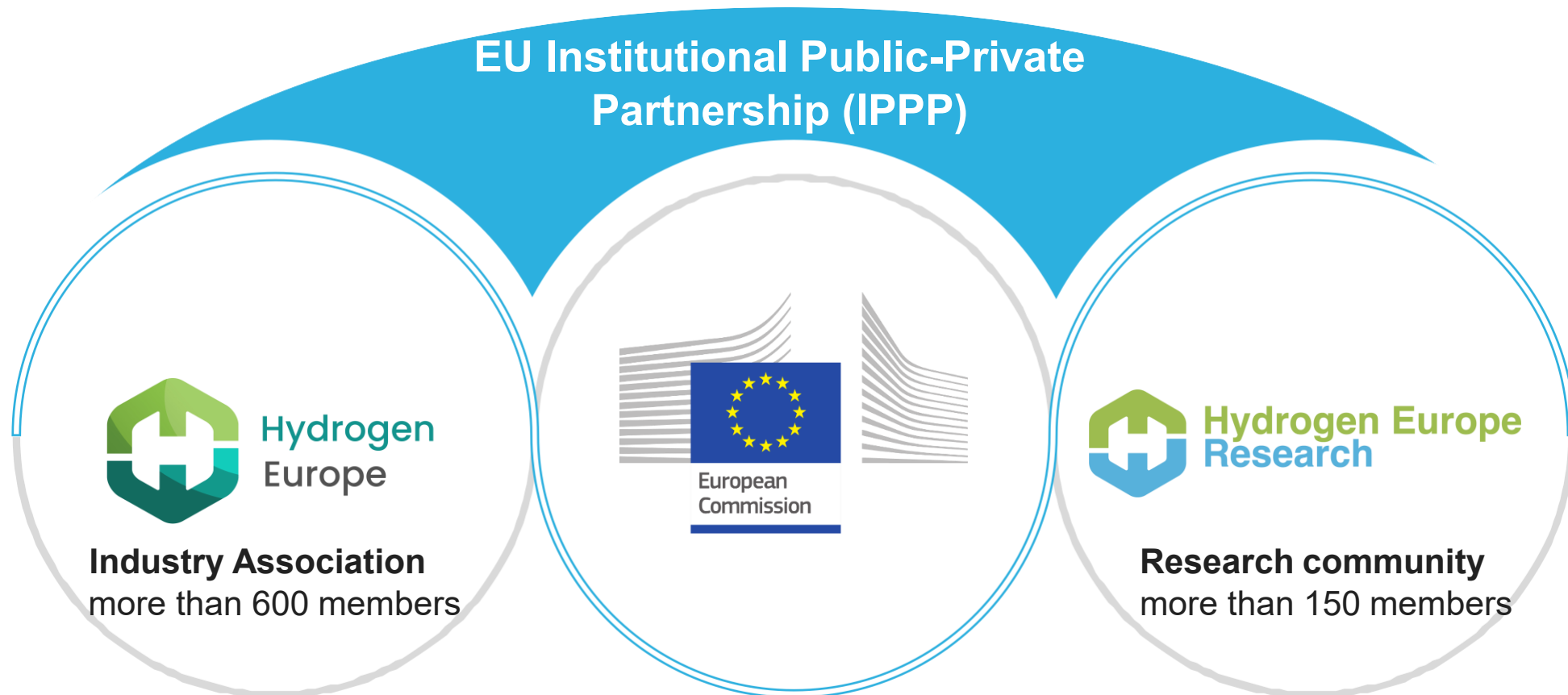
15 January 2026, Hydrogen Summit & Expo, Tampere

Valerie BOUILLON-DELPORTE
Executive Director



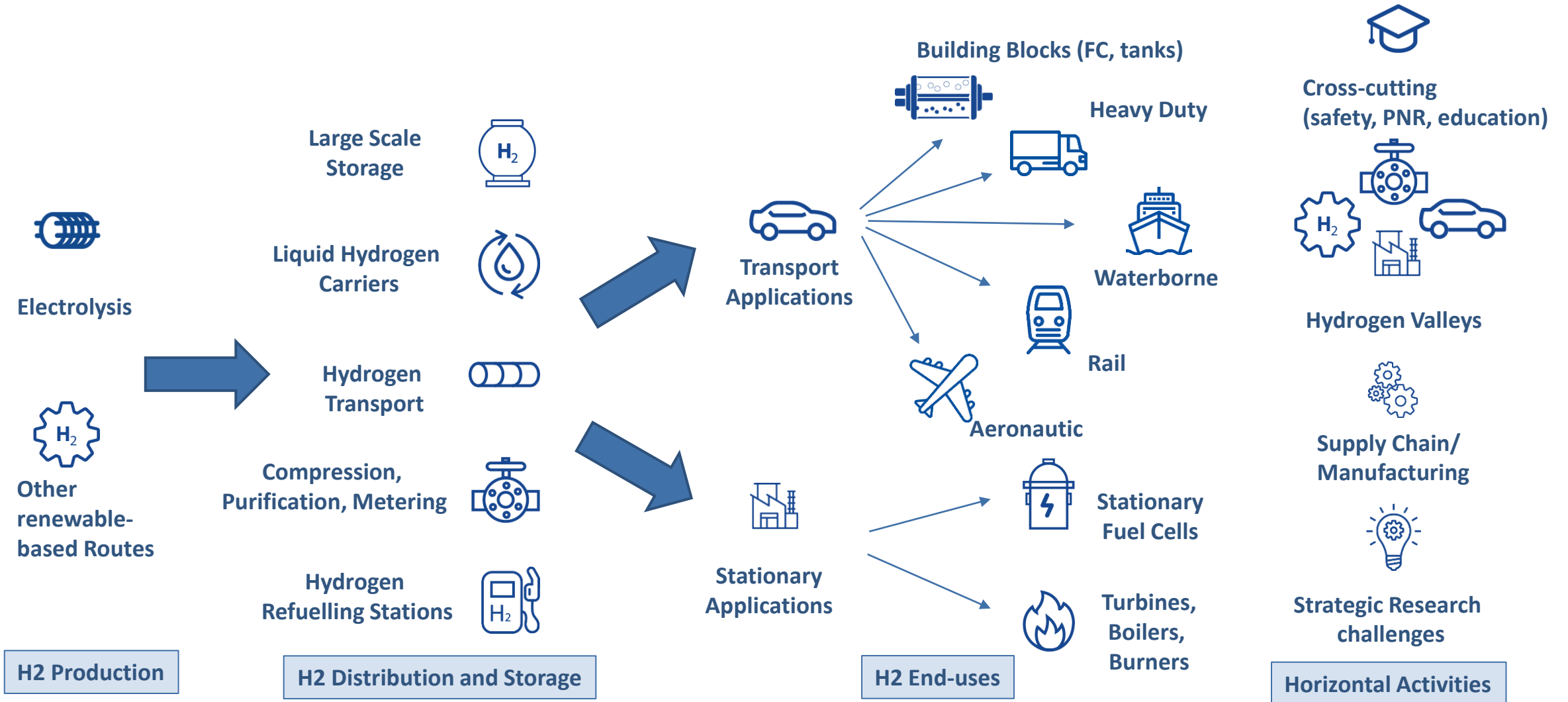
Overview and Strategic priorities





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)**

Strategic Research & Innovation Agenda (SRIA) 2021 – 2027

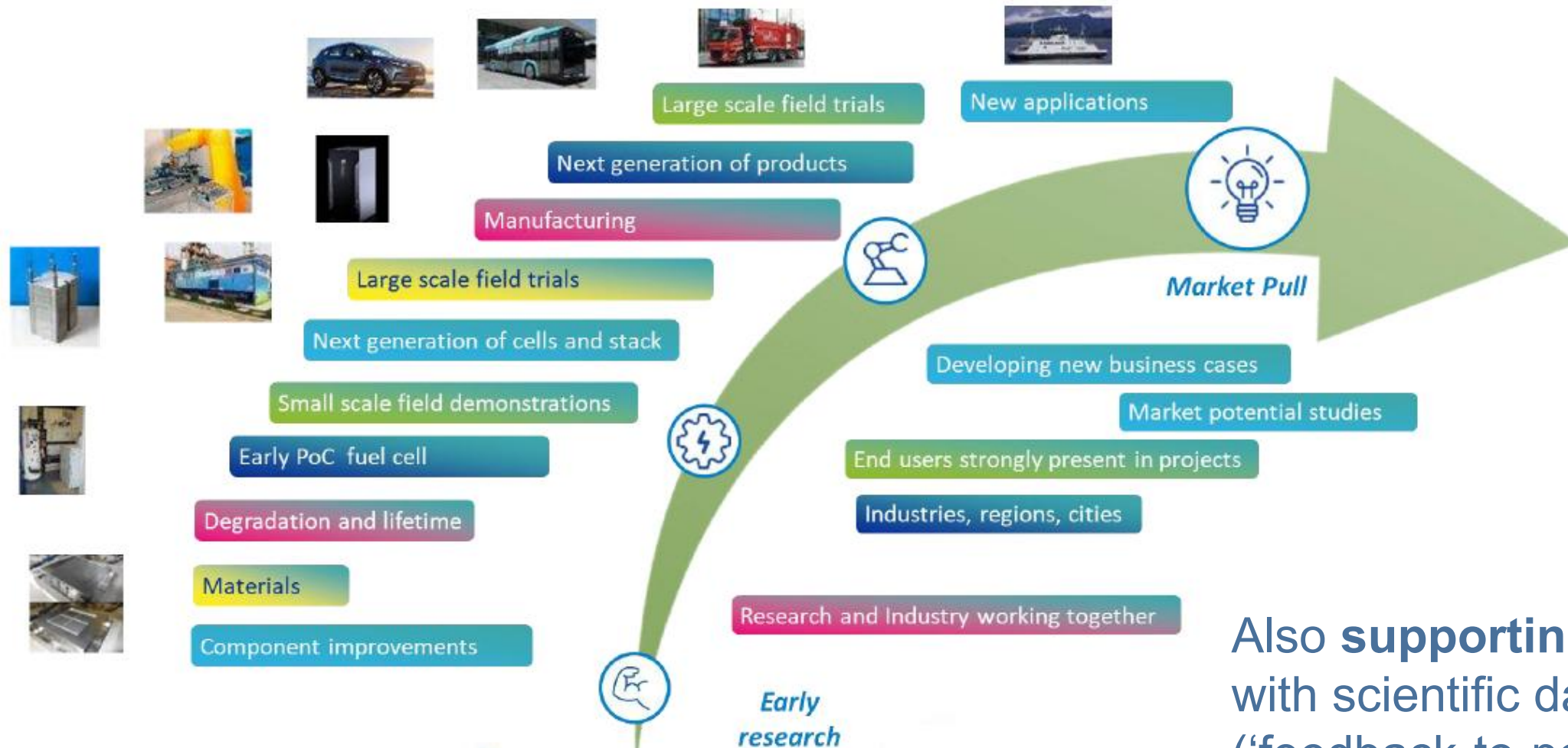


What we do ... in Europe



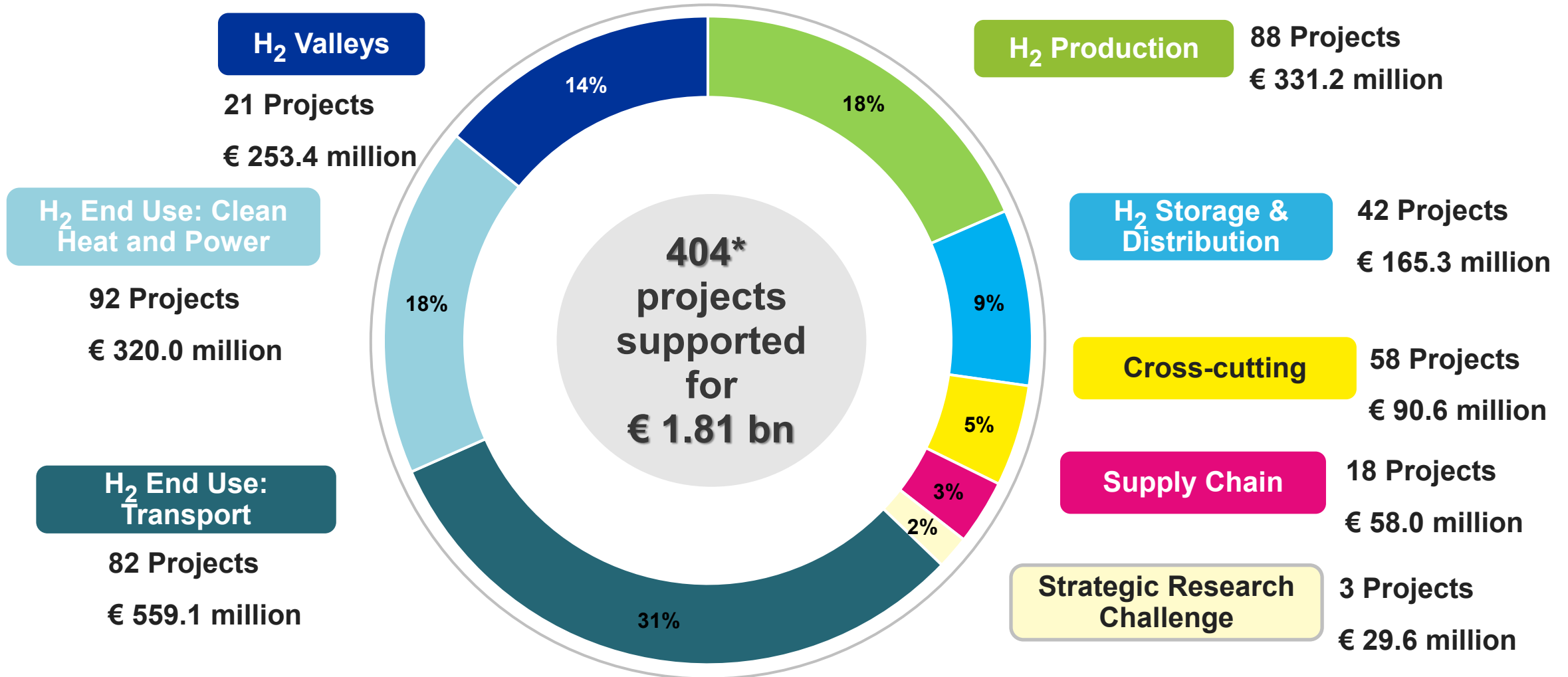
17 years of the Joint Undertaking

From research to delivering hydrogen solutions/innovations in the market



Also supporting policy with scientific data ('feedback-to-policy')

Clean Hydrogen JU Programme (over last 17 years)



**Additional 30 grants/projects under preparation from call 2025 for more than 180 mill EURO*

Transforming R&I into real projects and growth through integrated support to regions

(2008 – 2027)
Facilitate transition to a greener EU through development of H2 technologies

EU Institutional Public-Private Partnership (IPPP)

EUROPEAN PARTNERSHIP

R&I programme to bring FCH technologies to market readiness

Funding

1.79 BEUR

790 MEUR RIA*
1,000 MEUR IA

*Includes 32 MEUR funding for CSA

Number projects

401

298 RIA

103 IA

Regions initiative (2016-2018)

To support cities and regions with an interest in FCH technologies

Engagement

Report

MOU

- 89 European Regions;
- 22 countries
- 1/4 of Europe's population, surface & GDP;

Hydrogen Valley S3P Platform

Project Development Assistance (2021-onwards)

From idea to project plan

<https://europa.eu/IMcW9JP>

JU Annual Work Plans

Support to investments: H2 projects including H2 Valleys

<https://europa.eu/!WYcrfy>

Synergies with Managing Authorities

Leveraging funding

<https://europa.eu/lhkcmdP>

25 Regions supported
€ 1.4 bn CAPEX
500+ MW Electrolysers
30+ HRS

Support to investments: H2 projects including H2 Valleys

Hydrogen Valleys Facility

Leveraging funding

Memorandum of Cooperation with Managing Authorities



March 2023

“Hydrogen Valleys are key for the creation of a European research and innovation area for hydrogen.”

Comm. Mariya Gabriel



STATE OF THE UNION 2020

September 2020

“I want NextGenerationEU to create new European Hydrogen Valleys to modernise our industries, power our vehicles.”

Ursula von der Leyen.

July 2020

European Hydrogen
Strategy

May 2022

REPowerEU Plan

200 MEUR top-up for the Clean Hydrogen partnership to double the number of Hydrogen Valleys

June 2024

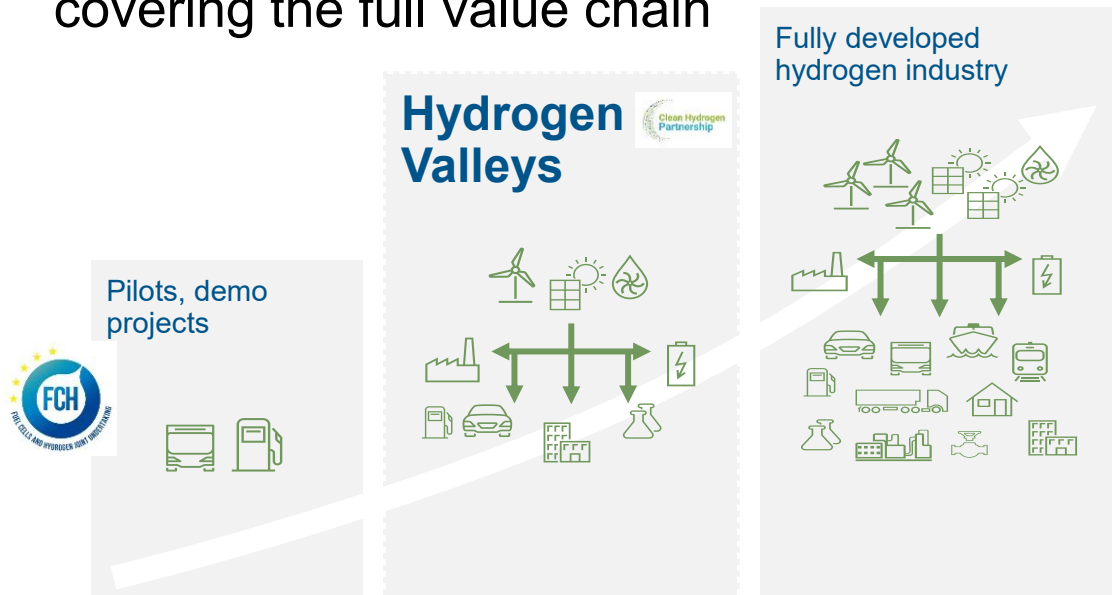
European Hydrogen
Valley Roadmap

*European Commission’s inspirational target of **50 Hydrogen Valleys under construction or operational by 2030** across the entire EU*

“Hydrogen Valleys” are local market makers for clean hydrogen – Integrated infrastructure projects along the whole value chain

Bottom-up contribution to market development

- Next-generation H2 market development
- Integrated (and larger-scale) projects covering the full value chain



What they're made of

- **Large-scale joint investment** (x10 m EUR and up to multi-bn EUR)
- **Full hydrogen value chain coverage**
 - Centralized clean hydrogen production (*de facto* mostly green H2)
 - Shared infrastructure (e.g., pipelines, refueling stations)
 - Multiple end-uses (e.g., petrochemical industry, hydrogen road mobility)
- **Geographically defined scope** (from local, regional to international/cross border)

Hydrogen Valleys – multipliers and enablers of socio-economic synergies



21 Hydrogen Valleys supported to date – 5 additional grants being prepared

Investments
+1,300 million €

JU Funding
+250 million €



Hydrogen Valleys deployed across
19 European countries



+450 beneficiaries from 40
countries



STEP Seal

Hyceland
Iceland

BIG-HIT Orkney Islands, UK (ended)

CONVEY Hirtshals Port Denmark

HEAVENN Northern Netherlands

BalticSeaH2 Cross-border, Hydrogen corridor across South Finland & Estonia

HySPARK Mazovian Region, Poland

EASTGATEH2V Kosice Region

SH2AMROCK Galway, Ireland

LuxHyVal LuxHyVal

AdvancedH2Valley Pays de la Loire region, France

HI2 Valley Region of Carinthia, Styria, Upper Austria, Austria

NAHV Cross-border, Hydrogen valley covering North Italy, Slovenia, and Croatia

IMAGHyNE Region of Auvergne-Rhône-Alpes

ZAHYR Stara Zagora, Bulgaria

CyLH2Valley Region of Castilla Y León, Spain

HYSouthMarmara South Marmara Region, Türkiye

H2tALENT Alentejo Region, Portugal

TRIERES Corinthia, Greece

CRAVE-H2 Crete, Greece

TH2ICINO Lombardy region, Italy

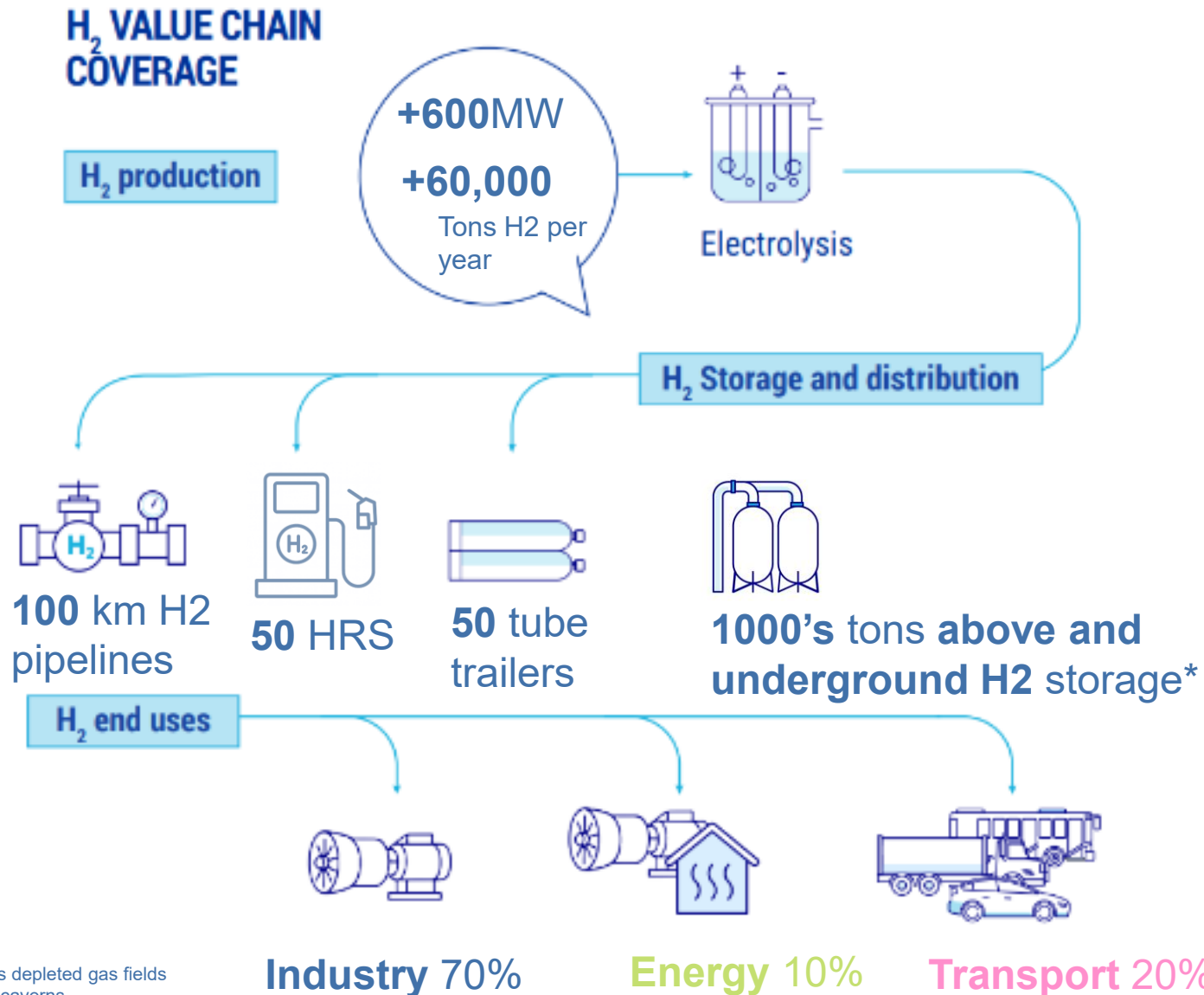
GreenHysland Mallorca, Spain

- Call 2024 - Large Valley
- Call 2024 - Small Valley
- Call 2023 - Large Valley
- Call 2023 - Small Valley
- Call 2022 - Large Valley
- Call 2022 - Small Valley
- Call 2020 - Small Valley
- Call 2019 - Large Valley
- Call 2015 - Small Valley

Administrative boundaries: © EuroGeographics © OpenStreetMap
Cartography: Eurostat – IMAGE, 09/2025

Hydrogen Valleys Value Chain Coverage

Indicative plans (exc. PDA support)



Energy

100 MW fuel cell for heat & power
 Gas/H₂ turbines
H₂ blending gas grid
Heat only (domestic, commercial, industry)

Industry

Ammonia production
Refineries
Steel making
Other chemical industry

Transport

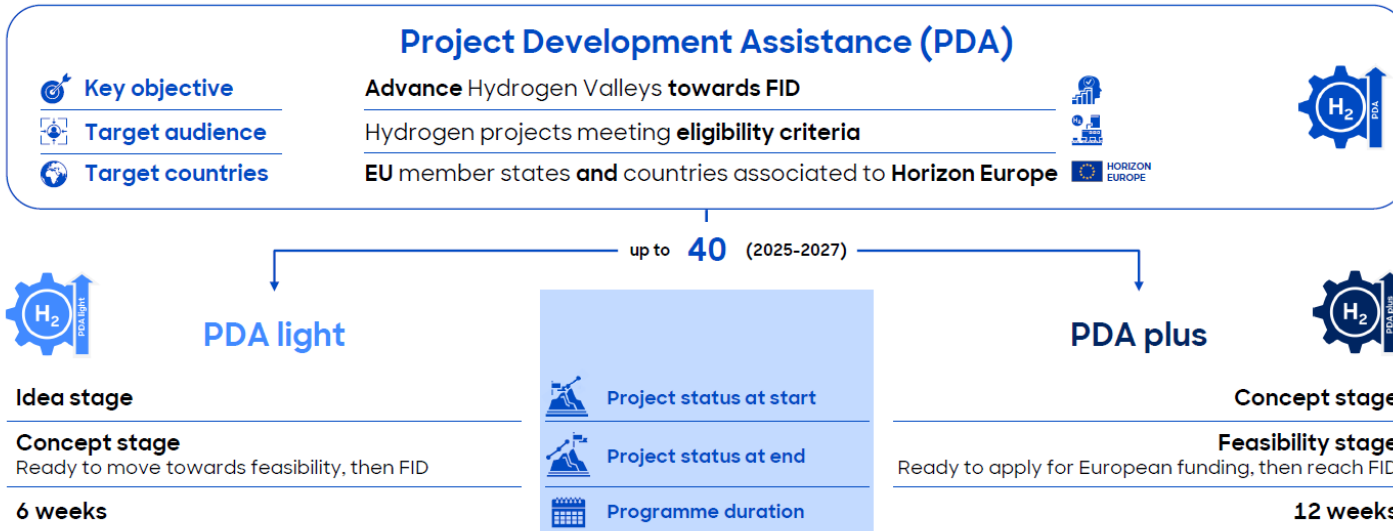
+150 buses
 ~**200** Long-Haul trucks
 ~**7** garbage trucks
 ~**4** vessels
+150 vans
Light duty vehicles (taxis)
 non-road-mobile machinery (forklifts, tractors, etc.),
Others

*Includes depleted gas fields and salt caverns

Project Development Assistance Services

With the Project Development Assistance, the Clean Hydrogen Partnership supports Hydrogen Valleys to mature towards feasibility stage & FID

PDA light and PDA plus programmes



Source: Roland Berger

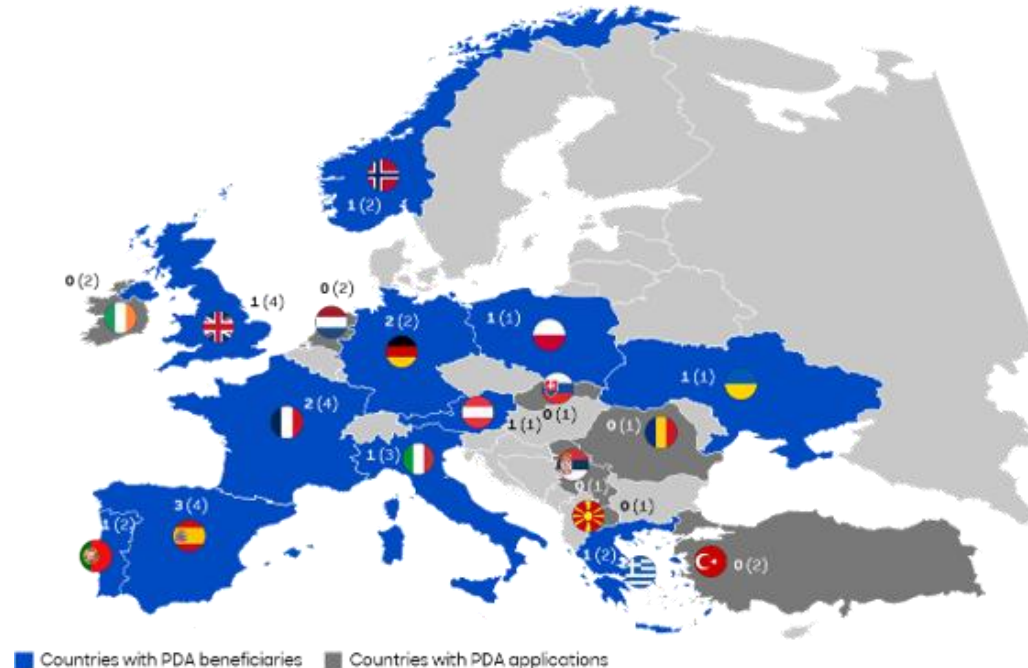
Roland Berger | 11

1st call for applications closed on 29/09/2025

36 PDA applications received, from 18 countries, 12 EU Member States, 6 Horizon Europe associated countries

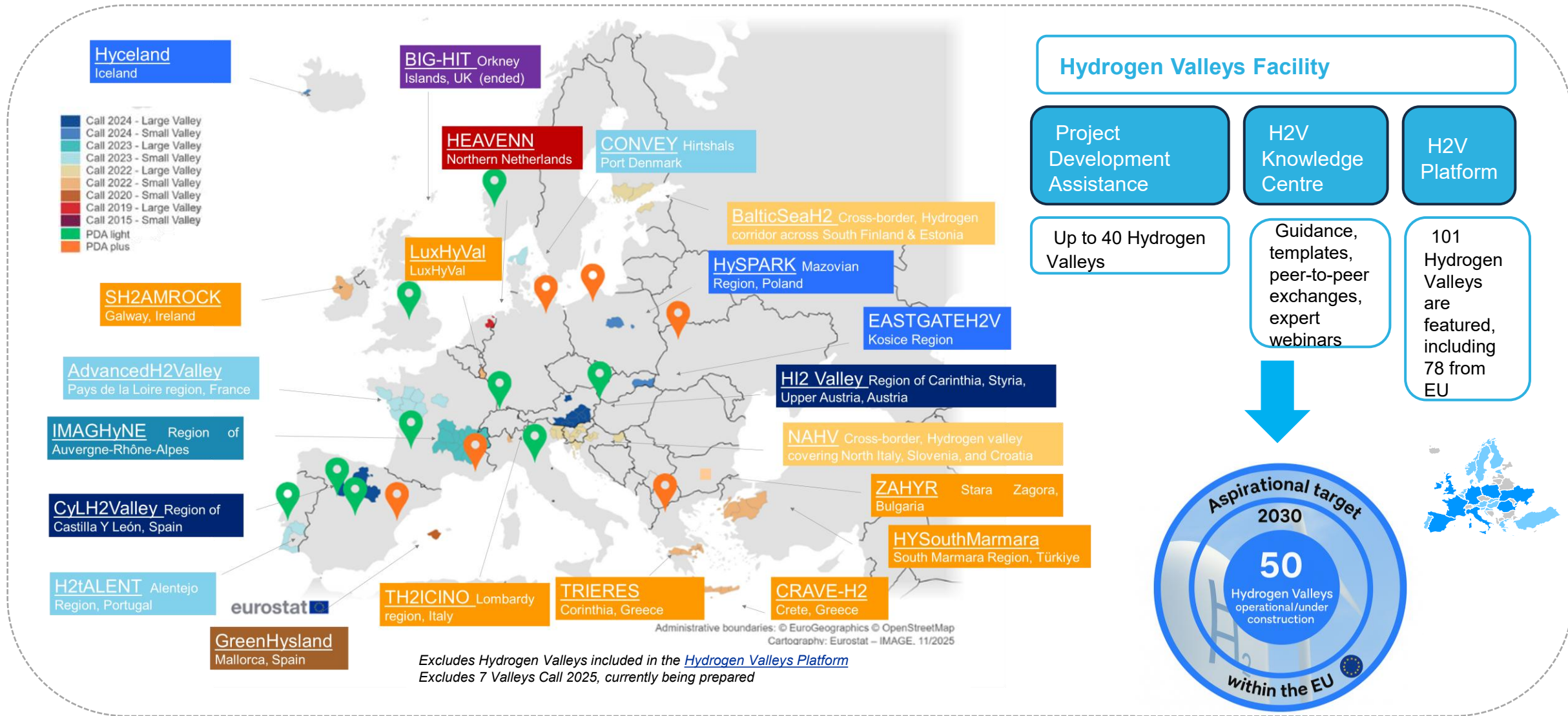
9 applications awarded with PDA light

6 applications awarded with PDA Plus



Accelerating deployment

Support for Hydrogen Valleys on their way to FID via a dedicated Hydrogen Valleys Facility

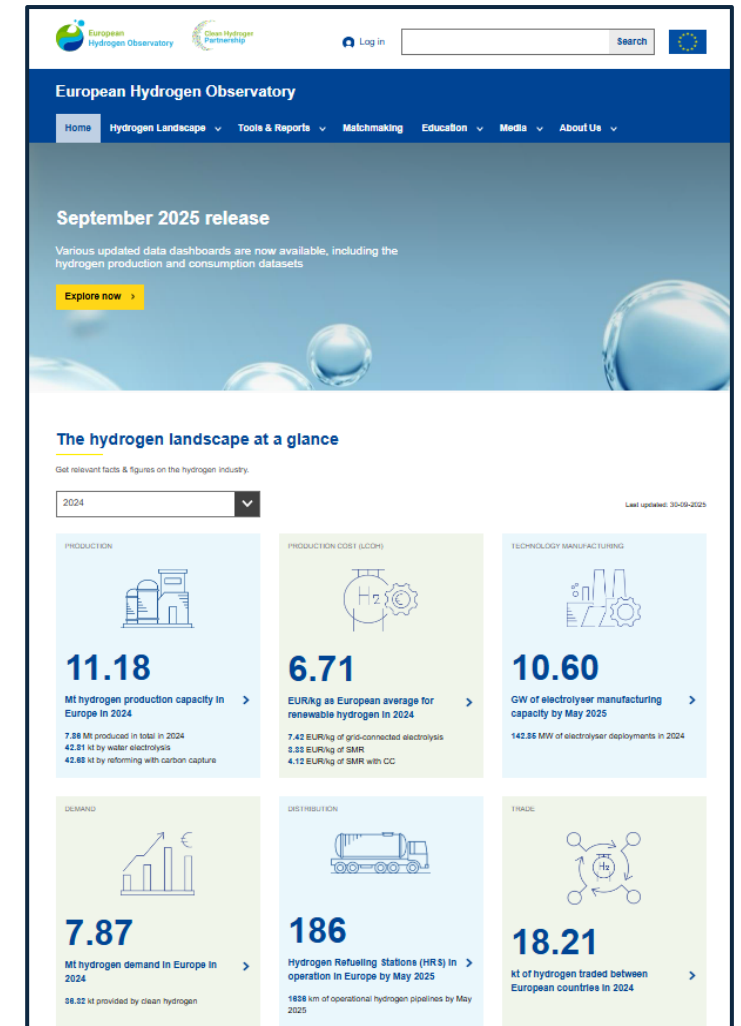


Highlights

- Many new data sets regarding all the steps in the hydrogen value chain;
- Geomap
- Levelised Cost of Hydrogen Calculator
- Observatory Reports
- News and events interface
- Learn about hydrogen
- Internal Portal

Target Audience

- Industry
- Policy makers
- Academics
- Opinion leaders
- Citizens



Success Stories – spotlight on our projects

Bringing hydrogen buses to new cities across Europe



Building the standards to power Europe's hydrogen economy



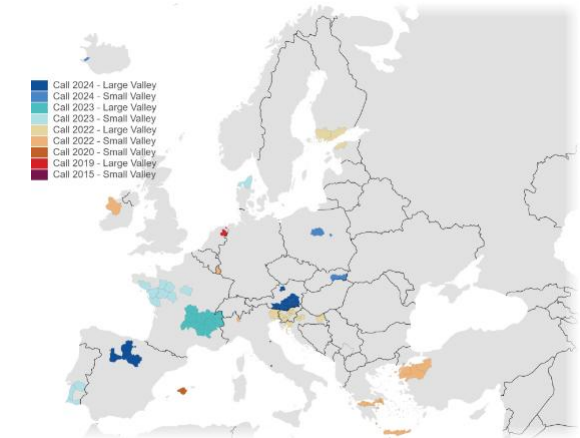
Hydrogen Valleys: Powering innovation and regional growth across Europe



Pushing the boundaries of hydrogen combustion in gas turbines



On the road to zero emissions: Advancing MEA performance for fuel cell vehicles



Success Stories 2025 – a new focus (start-ups and competitiveness)



H2SITE – start-up born in Bilbao as a spin-off from TECNALIA and TUE, focusing on process intensification. Owns two patent applications coming from projects FERRET and HYGRID.





"Building on over a decade of European research, H2SITE has transformed cutting-edge innovation into a market-ready solution, delivering clean and cost-competitive hydrogen exactly where it's needed efficiently, sustainably, and locally."
H2SITE CEO Andrés Galnares

"By funding each step of the innovation pathway, we've helped turn promising technologies into bankable industrial solutions and European start-ups into global players."
Valérie Bouillon-Delporte, Executive Director of the Clean Hydrogen Partnership



MW level PEM



10MW PEM



100MW PEM



150kW SOEC



720kW SOEC



2.4 MW SOEC

What we do In Finland



JU Contribution in Finland

59.48M

JU Contribution

62

Number of Projects

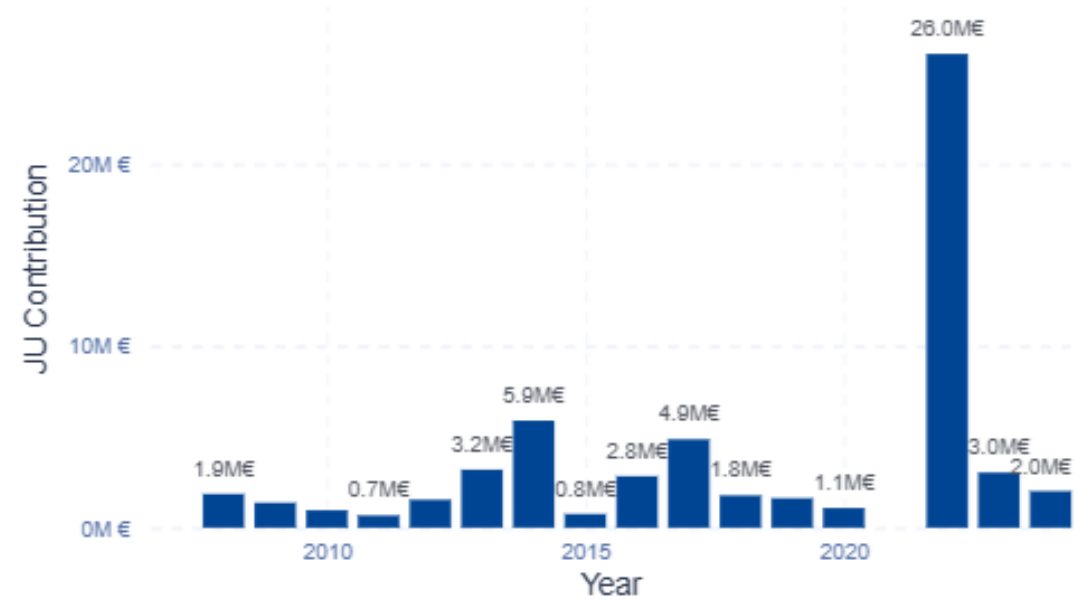
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Number of Unique Beneficiaries

Number of projects by year

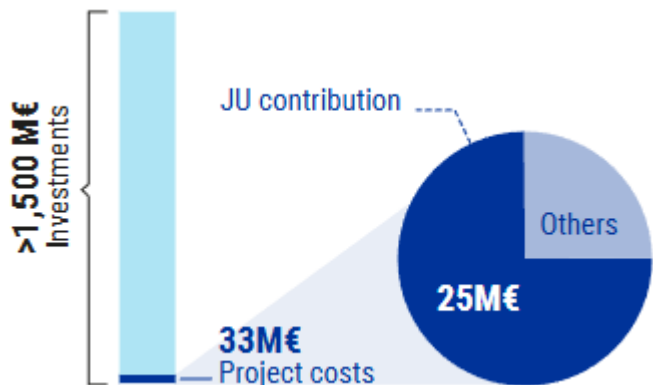


JU contribution by year



BalticSeaH2

CROSS-BORDER HYDROGEN VALLEY AROUND THE BALTIC SEA



BalticSeaH₂ is building the largest cross-border hydrogen valley in Europe, between Finland and Estonia. The goal is to create an integrated hydrogen economy around the Baltic Sea to enable self-sufficiency of energy and minimise carbon emissions from different industries. Combining local areas into a broader valley supports creating a genuinely integrated, interregional hydrogen economy.

CROSS-BORDER HYDROGEN VALLEY AROUND THE BALTIC SEA

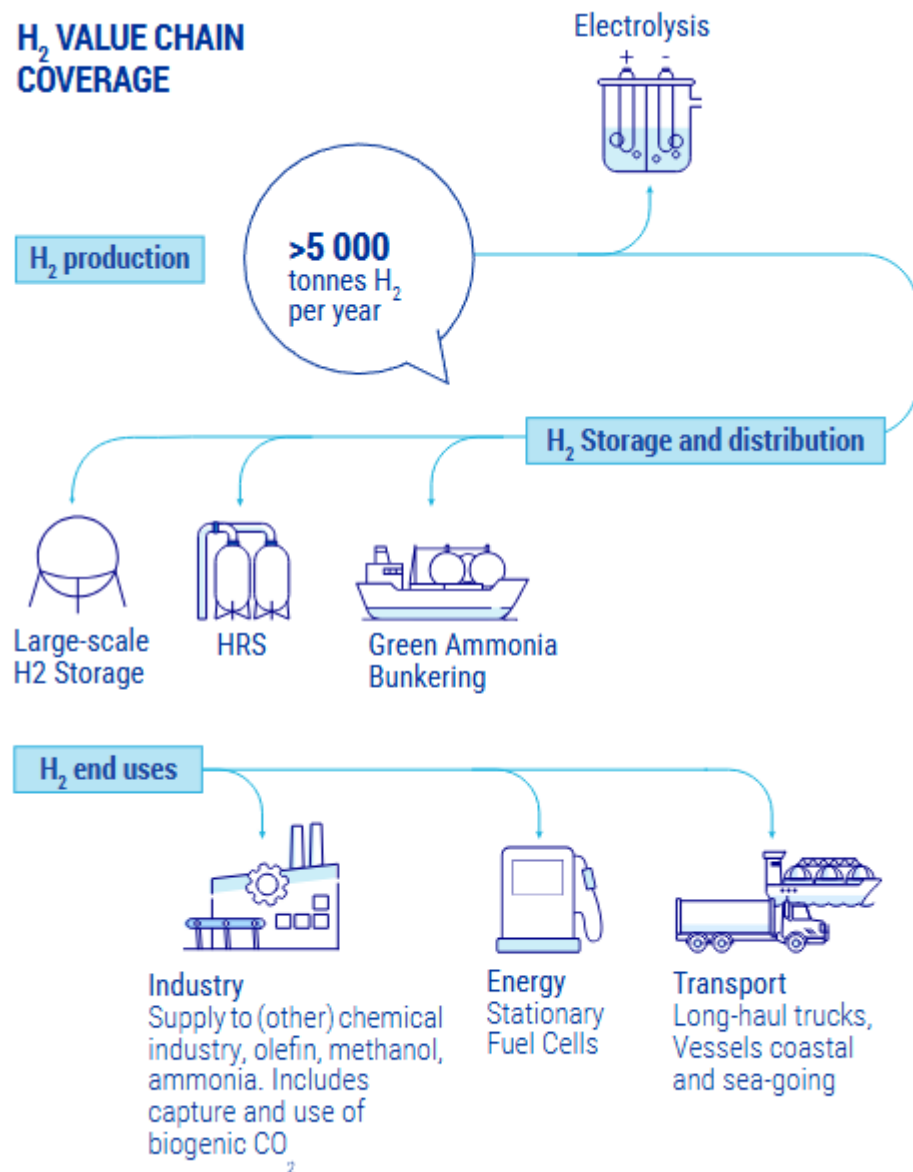
Project ID	101112047
PRR 2025	Pillar 6 – H ₂ Valleys
Call Topic	HORIZON-JTI-CLEANH2-2022-06-01
Coordinator Beneficiary	CLIC INNOVATION OY, FI
Project Period	01-06-2023 - 31-05-2028
Location	Crossborder Finland – Estonia



Administrative boundaries © EuroGeographics © UN-FAO © Turstat Cartography Estonia - IMAG, 11/2023

<https://balticseah2valley.eu/>

H₂ VALUE CHAIN COVERAGE



Coming up ...





- Showcasing **2026 call topics** across key areas such as hydrogen production, storage, end uses.
- Participants will also receive practical, concise **guidance on proposal preparation** and how to strengthen impact, supporting consortium building and successful submissions.
- Dedicated brokerage / project pitching session
- Date: **21 January 2026**
Location: Charlemagne Building, Rue de la Loi 170, 1040 **Brussels**
- **More information:** www.clean-hydrogen.europa.eu