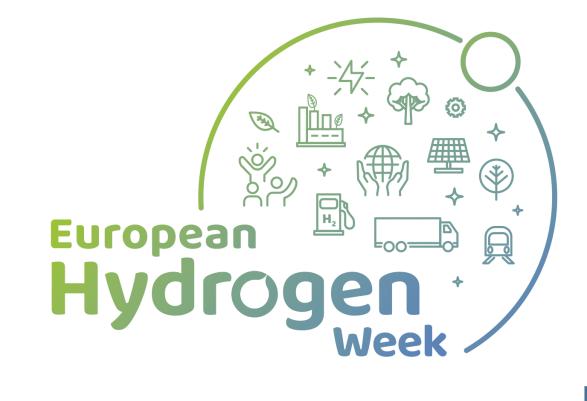
Working with Regions on Hydrogen Solutions - H2Valley and H2Island

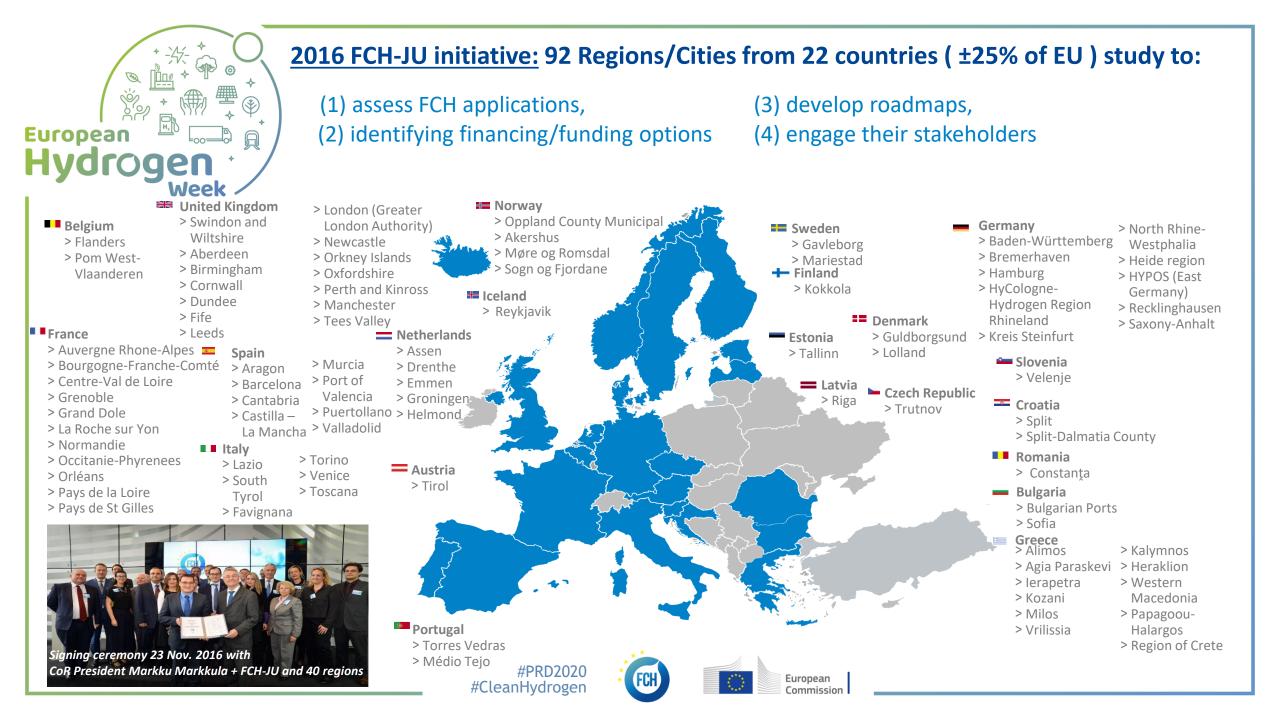


Bart Biebuyck

Executive Director, Fuel Cells and Hydrogen Joint Undertaking





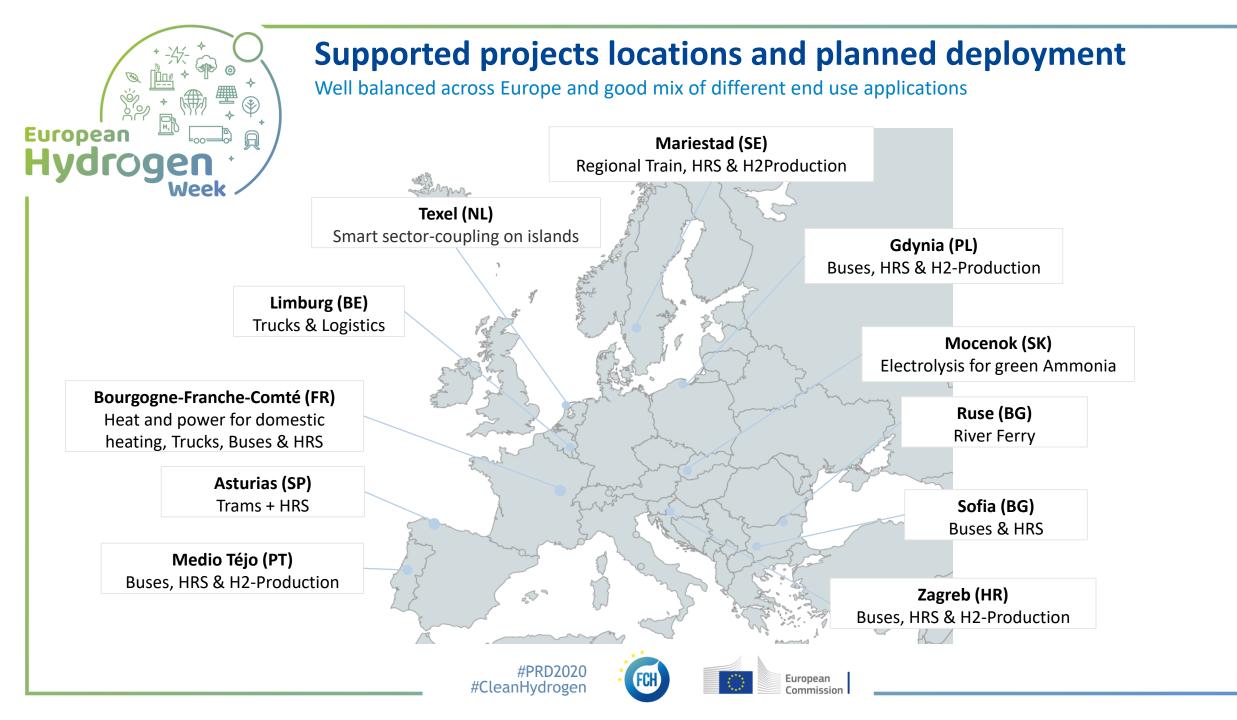




#PRD2020 #CleanHydrogen







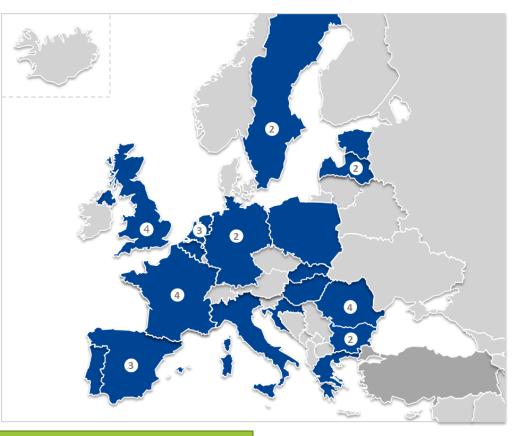


## **The Observer network**

### To share lessons learned and solutions from the supported projects

- 35 unique, eligible applications for PDA were received from regions across Europe
- Each of these regions has agreed to participate in the Observer Network

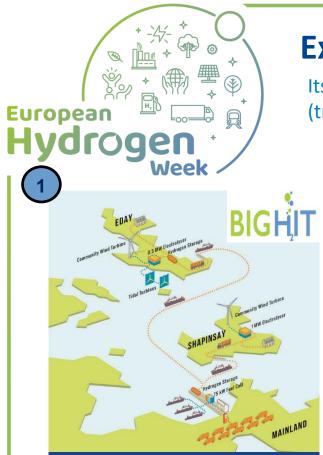
Country	Regions
Belgium	Limburg
Bulgaria	Ruse, Sofia
Croatia	Zagreb
Estonia	Tartu
France	Bourgogne-Franche-Comté, Normandie, Région Grand Est, Région
	Hauts de France
Germany	Dahme-Spreewald, Stadt Aschaffenburg
Greece	Western Macedonia
Hungary	Szentendre
Italy	Emilia-Romagna
Latvia	Jelgava, Riga
Netherlands	Brainport Eindhoven, Midden Noord-Brabant, Texel
Poland	Gdynia
Portugal	Medio Téjo
Romania	Cluj-Napoca, Giurgiu, Iasi, Ramnicu Valcea
Slovakia	Mocenok
Spain	Aragón, Asturias, Cantabria
Sweden	Gävleborg, Mariestad
UK	England: Coventry, Swindon
	Scotland: Aberdeen, Orkney Islands



#### PDA was very successful and another PDA call for proposals is being prepared !







Orkney's Island (Scotland):

- H2 production by wind on Islands
- Storage and transportation by truck
- Use: heat (school), power (ferries) & mobility (municipality cars)

# **Examples of hydrogen Valleys today supported by FCH**

Its scope is system integration: production of renewable H<sub>2</sub>, storage, distribution and end use (transport, stationary, industry...)



- Domestic Heat applications
- Underground H2 storage (Hystock)



#### Hydrogen Island (Spain)\*

- H2 production from solar
- H2 injection in gas-grid
- Use: heat (hotel, municipality buildings), power (port of Palma), mobility (buses)

(\*) Subject of successful signing the grant by Dec 2020

#### Future Possible H<sub>2</sub> valleys: Ports, Airports, Industrial hubs, Logistical hubs, A H<sub>2</sub> city (or area)





European

Commission



Vallevs

 $\rightarrow$  15 countries + EU

#### → Objective:

"To accelerate the development of a global hydrogen market by identifying & overcoming key technology barriers to the production, distribution, storage, and use of hydrogen at GW scale"

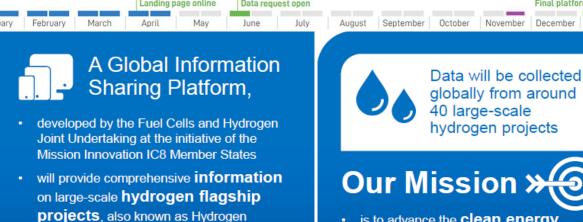
#### → Scope:

- focused multinational research & large scale demonstration efforts
- from both public & private sectors
- industry-directed breakthroughs within the next 3 years
- renewable & clean hydrogen
- 4 activity streams: making, sharing, using hydrogen & cross-cutting issues

→ Co-lead `countries': Australia, EU & Germany

### The Hydrogen Valley Platform





- is to advance the clean energy transition
- · is to promote the emergence and the implementation of hydrogen projects
- is to raise awareness among policy makers





www.h2v.eu. Have a look at it right now!

SIGN UP HERE FOR UPDATES

The platform can be accessed at:

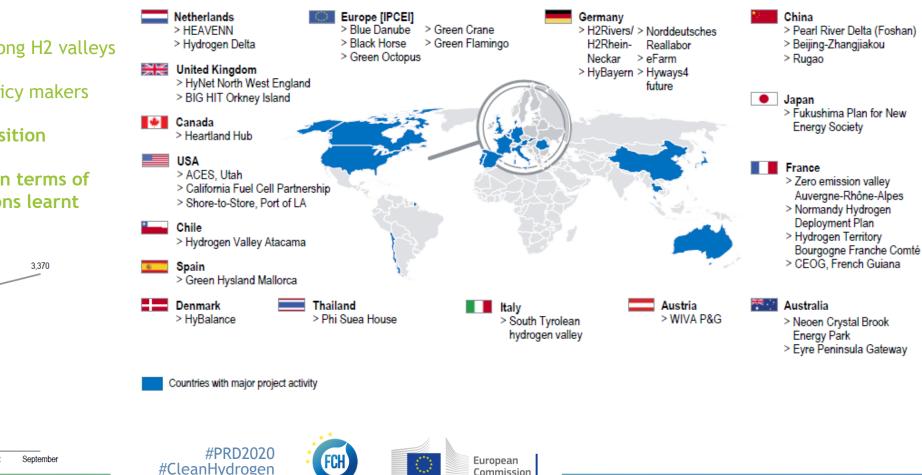




# Hydrogen Valleys to accelerate the energy transition

H2 Valleys' concept picked up worldwide to build Regional H2 economies

### Global Hydrogen Valley projects on the platform

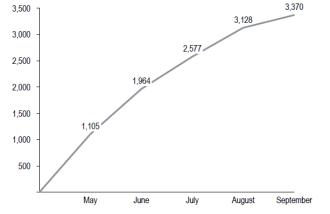


### Goal:

- ✓ Peer-to-peer exchange among H2 valleys
- ✓ Raise awareness among policy makers
- ✓ Advance clean energy transition

# ✓ EU/EC/FCH JU in the lead in terms of gathering and sharing lessons learnt

Overview of the number of platform visits



8

As of 6 October



### **Bart Biebuyck**

Executive Director Bart.Biebuyck@fch.europa.eu @bart.biebuyck Bart Biebuyck

## For further information

www.fch.europa.eu www.hydrogeneurope.eu www.hydrogeneurope.eu/research

> #PRD2020 #CleanHydrogen

Hydrogen

European



**—** H<sub>2</sub>

F00-

Week

✦

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**Fch-ju@fch.europa.eu** 

in FCH JU