North Adriatic cross-border Hydrogen Valley (NAHV)

Holding Slovenske elektrarne, d.o.o. April 2023





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)



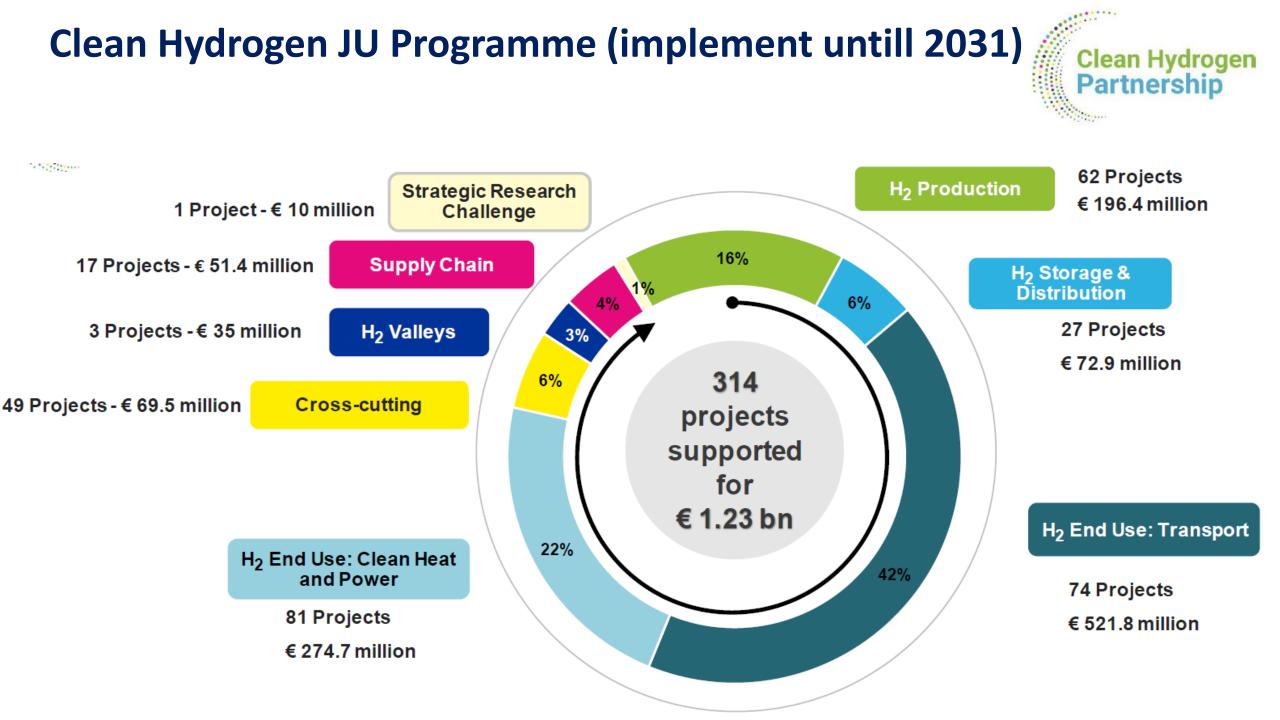




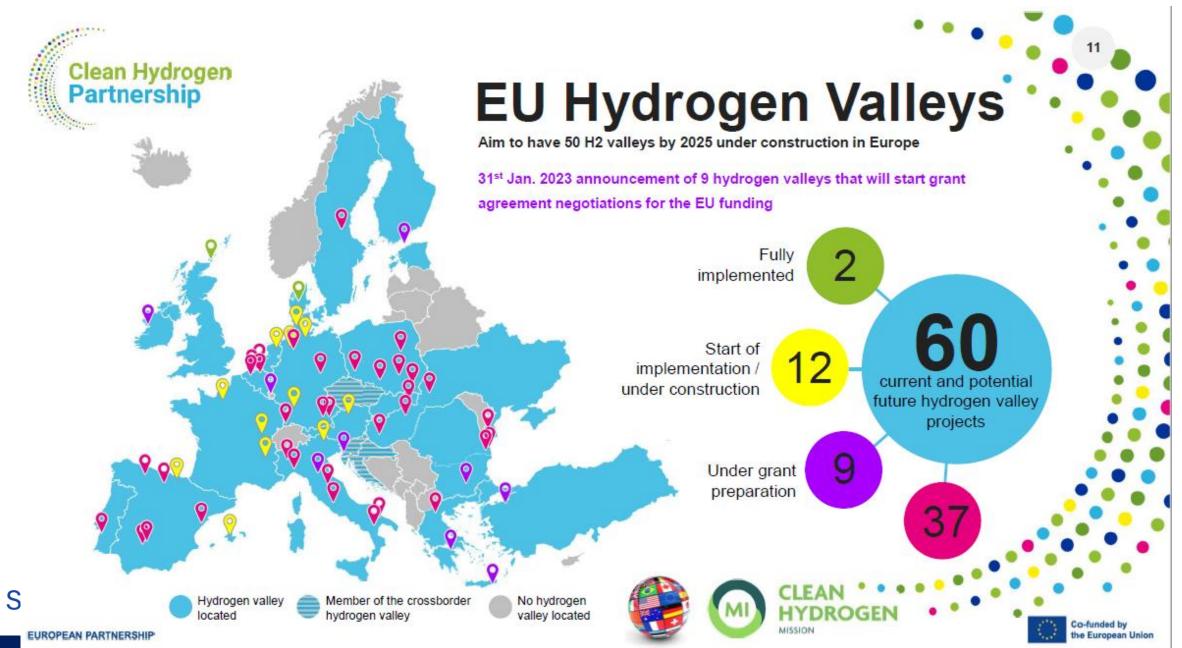








Hydrogen Valleys



Path passed till today and Current position

- 24.11.2021 Hydrogen Ecosystem North Adriatic 2021, 1st Conference
- 14.03.2022 Letter of intent, MzI (SLO), MGiOR (CRO), Reg.Council (FVG) and formation of JWG
- 31.03.2022 Call HORIZON-JTI-CLEANH2-2022

11.04.2022

18.05.2022

08.06.2022

Current

- Formation of JWGs in each of three regions
 - JWG has appointed AREA Science park as technical assistance

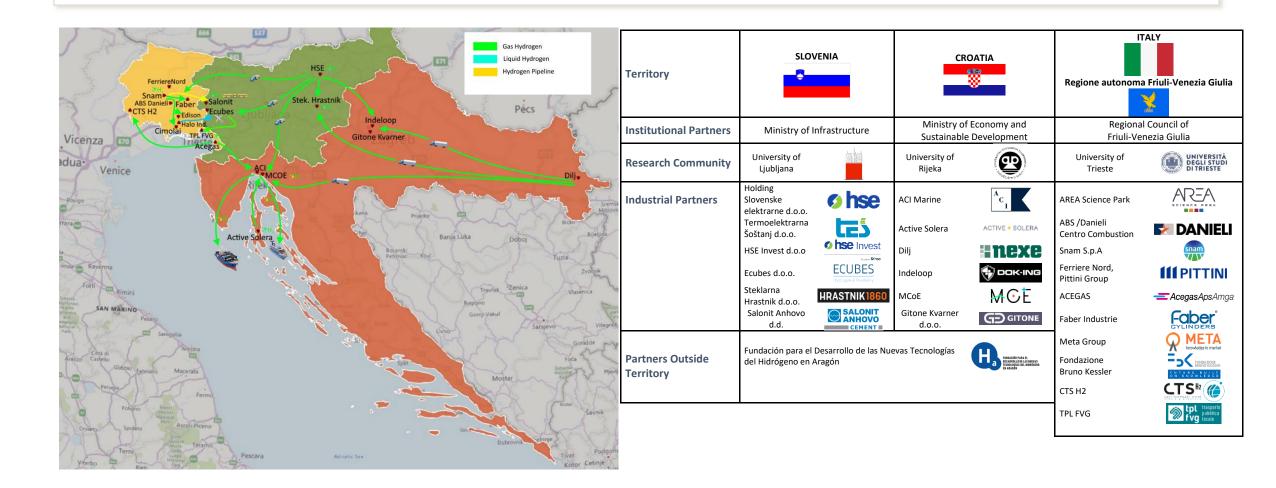


- MoU, President of the Italian Government and the President of the Region Friuli Venezia Giulia, financing of the Hydrogen Valley
- 04.08.2022 JWG has appointed HSE as Lead partner 💋 hse
- 20.09.2022 Application submission date
- 27.09.2022 Hydrogen Ecosystem North Adriatic 2022, 2nd Conference
- 13.01.2023 Evaluation Summary
 - Grant Agreement / Consortium Agreement Preparation phase
- 23.05.2023 Grant Agreement signature

North Adriatic Hydrogen Valley

- A **Hydrogen Valley** is a defined geographical area where hydrogen serves more than one end sector or application in **mobility, industry** and **energy**.
- Hydrogen Valleys are starting to form **first regional "hydrogen economies".**
- **Develop, deploy and demonstrate** a large-scale hydrogen valley with interlinkages to other places of hydrogen production and/or consumptions outside its boundaries.
- Showcase the ability of hydrogen and its associated technologies **to decarbonise different sectors** in EU through this renewable hydrogen flagship project;

North Adriatic Hydrogen Valley - Consortium Partners





	Territory	Company		Supply Chain	Sector	H2 Production (t/a)	H2 Consumption (t/a)		
				position			Industry	Energy	Transport
	SLOVENIA	Holding Slovenske elektrarne	ø hse	producer/end user/distribution	energy/transport/ grid balance	3.000	1.000	1.000	1.000
		Steklarna Hrastnik	HRASTNIK 1860	producer/end user/distribution	hard to abate/ industry	608	608		
		Salonit Anhovo		end user/ producer	hard to abate/ industry	50	50		
Hydrogen production and consumption		Ecubes	ECUBES Hydrogen & Flexibility	Producer/distribution	Energy/transport	50			50
		ACI Marine	A C I	end user/ producer/ distributor	transport	22			22
		Active Solera		producer	energy	900	500		400
		Dilj	inexe	end user	hard to abate/ industry	/			
		Indeloop	DOK-ING	producer	hard to abate/ industry	80			80
		MCoE	MCE	end user	transport	/			
	ITALY	Danieli Centro Combustion	DANIELI	end user	hard to abate/ industry	/			
		SNAM/ Halo Industry SpA		end user/producer	hard to abate/industry	850	850		
		Ferriere Nord, Pittini Group		end user/producer	hard to abate/industry	/			
	Regione	ACEGAS		producer/distributor	energy	300	100		200
	autonoma	CTS H2		distributor	energy	2			2
	Friuli-Venezia Giulia	Cimolai	CIMOLAI	producer/end user	energy/transport	72		72	
		Faber Industrie	Faber	producer/distributor	energy				
		TPL FVG	tpl trasporto fvg locale	distributor	transport	55			55
				•	L				
	TOTAL					5989	3108	1.072	1809

Conclusions

- Project NAHV is first cross-border regional hydrogen valley with 34 partners
- GA and CA agreement preparation phase \rightarrow take into consideration approval process at every partner
- 17 testbeds were selected for the proposal with bottom-up approach
- Institutional partners have a huge role in finding additional funds for NAHV



Thank you!

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