



Hydrogen Europe

An overview of Hydrogen trucks industry and EU (future) funding

REVIVE workshop

Friday 6th December 2019, Lommel



Several heavy-duty trucks in Europe are at the prototype / small-scale demo phase

Selection of fuel cell heavy-duty vehicles in Europe (non-exhaustive):

Project / product	Coop FC truck demo	ASKO FC truck demo	H2-Share	Hydrogen region 2.0	REVIVE	HECTOR	GOH! (Generation of Hydrogen)	MAN & Shell demo	HV Systems	Hyundai	Nikola
Vehicle supplier	MAN (ESORO)	Scania	VDL	VDL	E Trucks Europe	Etrucks/FAUN/Holthausen/VKD - MOL	GreenGT/(Kamaz)	MAN	HV Systems	Hyundai	Nikola
GVW	34t	27t	28t	40t	Refuse trucks	Refuse trucks	40t	40t	44t	18t (34t with trailer)	40t
No. of trucks	1	4	1	1	15	7	1	1	TBC	1,600	TBC
Demo location	CH	NO	BE, DE, FR, NL	BE	7 sites	7 sites	CH	DE	TBC	CH – others potentially	TBC
Dates	2016/17	From 2019	2017–20	From 2016	2018–21	2019-2023	2019	2022	From 2019 (prototype)	From 2020	2023



Source: [Netinform](#)



Source: [fuelcellworks](#)



Source: [Waterstofnet](#)



Source: [Waterstofnet](#)



Source: [FCH JU](#)



Source: [NWE](#)



Source: [fuelcellworks](#)



Source: [BMVI](#) and [LinkedIn](#)



Source: [HV Systems](#)



Source: [Hyundai](#)



Source: [Nikola](#)

Hydrogen trucks momentum of the week



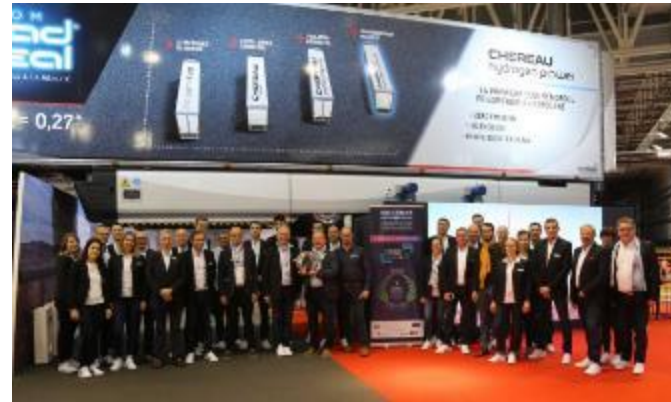
- Unveiled on Monday 2 December 2019
- Truck based on the IVECO S-WAY heavy-duty truck
- Available in 2023

Additionally...

Daimler Trucks & Buses targets completely CO₂-neutral fleet of new vehicles by 2039 in key regions



La remorque frigorifique à hydrogène de Chereau récompensée à Solutrans



Hyundai XCient fuel-cell all-electric heavy-duty project wins Truck Innovation Award 2020



IVECO, FPT Industrial and VDL ETS to develop fuel cell electric heavy-duty trucks for European markets as part of the H2Haul project



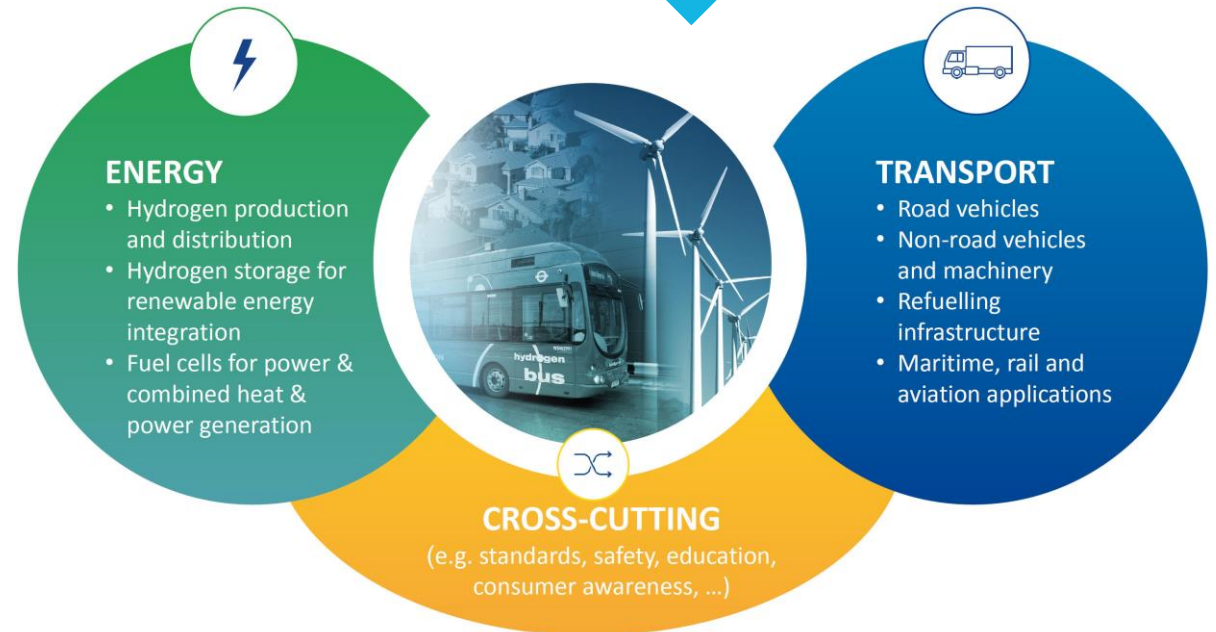
Current structure of the PPP: FCH-JU



&



**FUEL CELLS AND HYDROGEN
JOINT UNDERTAKING**



A portfolio of clean, efficient and competitive solutions based on fuel cells and hydrogen technologies in energy and transport.

Next Institutionalised PPP: 7 roles of Hydrogen

Enable the renewable energy system —————> Decarbonize end uses

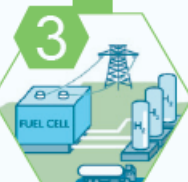
Enable **large-scale renewables integration** and **power generation**



Distribute energy across sectors and regions



Act as a **buffer** to increase system resilience



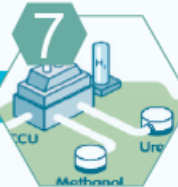
Help decarbonize **transportation**



Help decarbonize **industrial energy use**



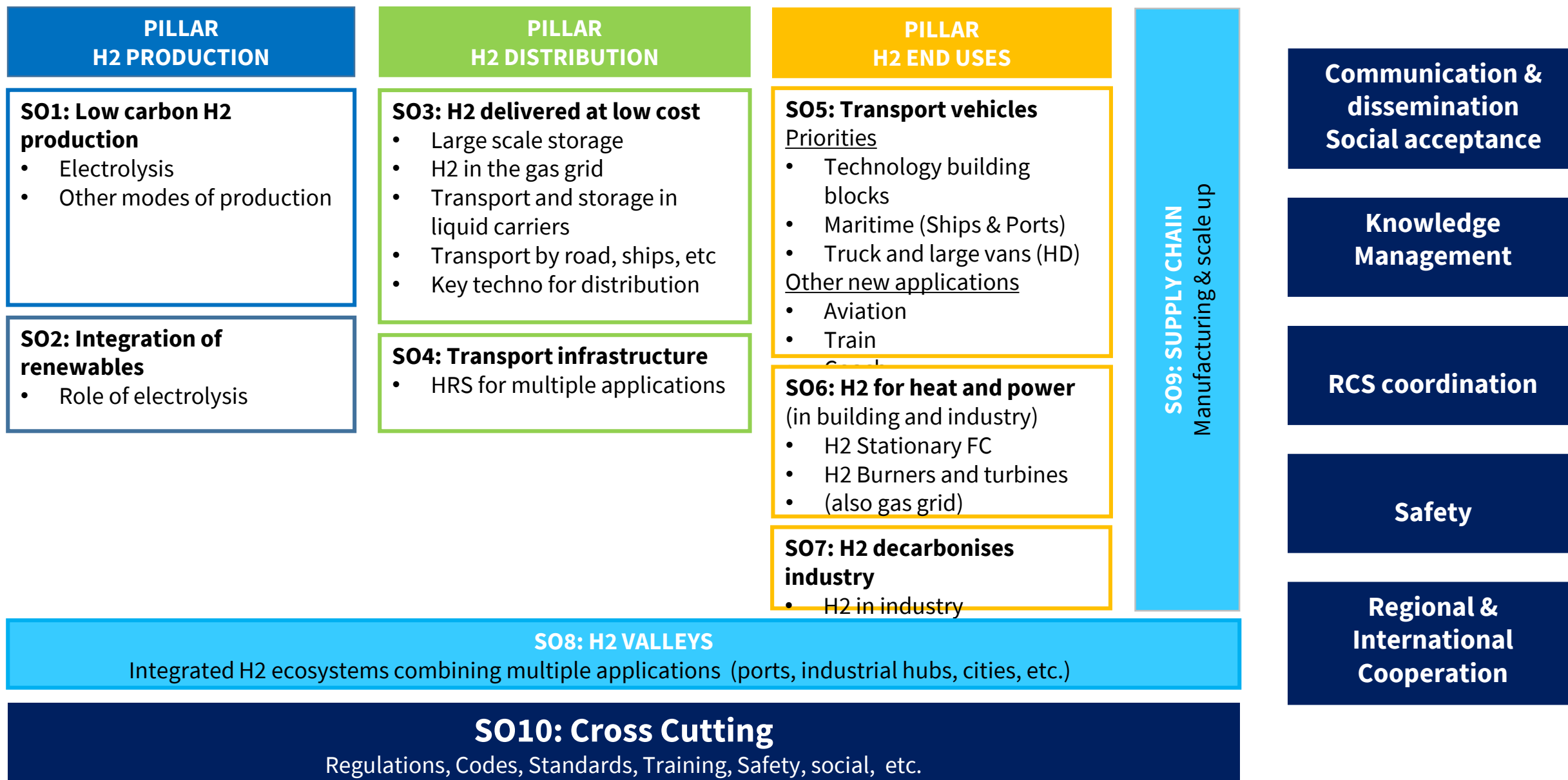
Help decarbonize **building heat and power**



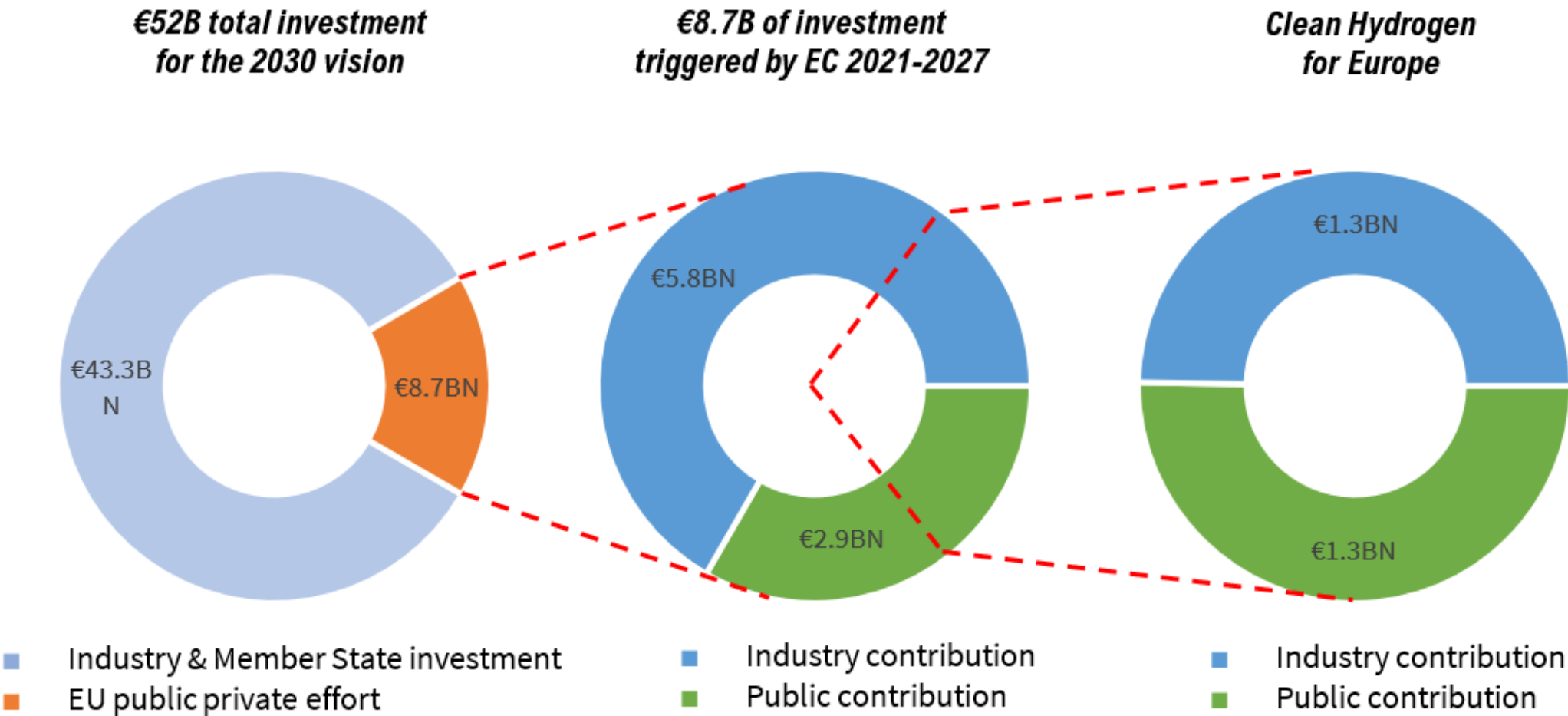
Serve as renewable **feedstock** : steel, refineries, chemicals

SOURCE: Hydrogen Council

Next IPPP: 3 pillars + 2 horizontal + cross-cutting ensuring a frictionless deployment



Next IPPP: Budget, impact and private contribution



Next IPPP: Consultation on SRIA open

- Draft Strategic Research innovation Agenda is online
www.cleanhydrogenforeurope.eu



- Available until 20th December for input



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Coordination of of several funding and financing streams will be vital to maximise the impact of this funding programme

