

**Interreg**  
Baltic Sea Region



Co-funded by  
the European Union



SMART GREEN MOBILITY

HyTruck

# HyTruck Breakfast Briefing

# LATVIAN HYDROGEN ASSOCIATION

January 8<sup>th</sup> 2025





**Latvian Hydrogen Association** is an NGO established in 2005 with an aim of hydrogen application development and implementation in Latvian and the Baltic States region as also to support development of Hydrogen economics by using only local renewable resources and hydrogen as energy carrier to provide energetics, transportation and manufacturing industries with the least negative effect to nature, and to support environment friendly energy source for production and consumption.

**H2LV** mission is to unite scientist and businessman societies, who work with technologies and materials while exploring renewable resources and their potential, to solve questions that hold importance to society as whole.

Member of **Hydrogen Europe**



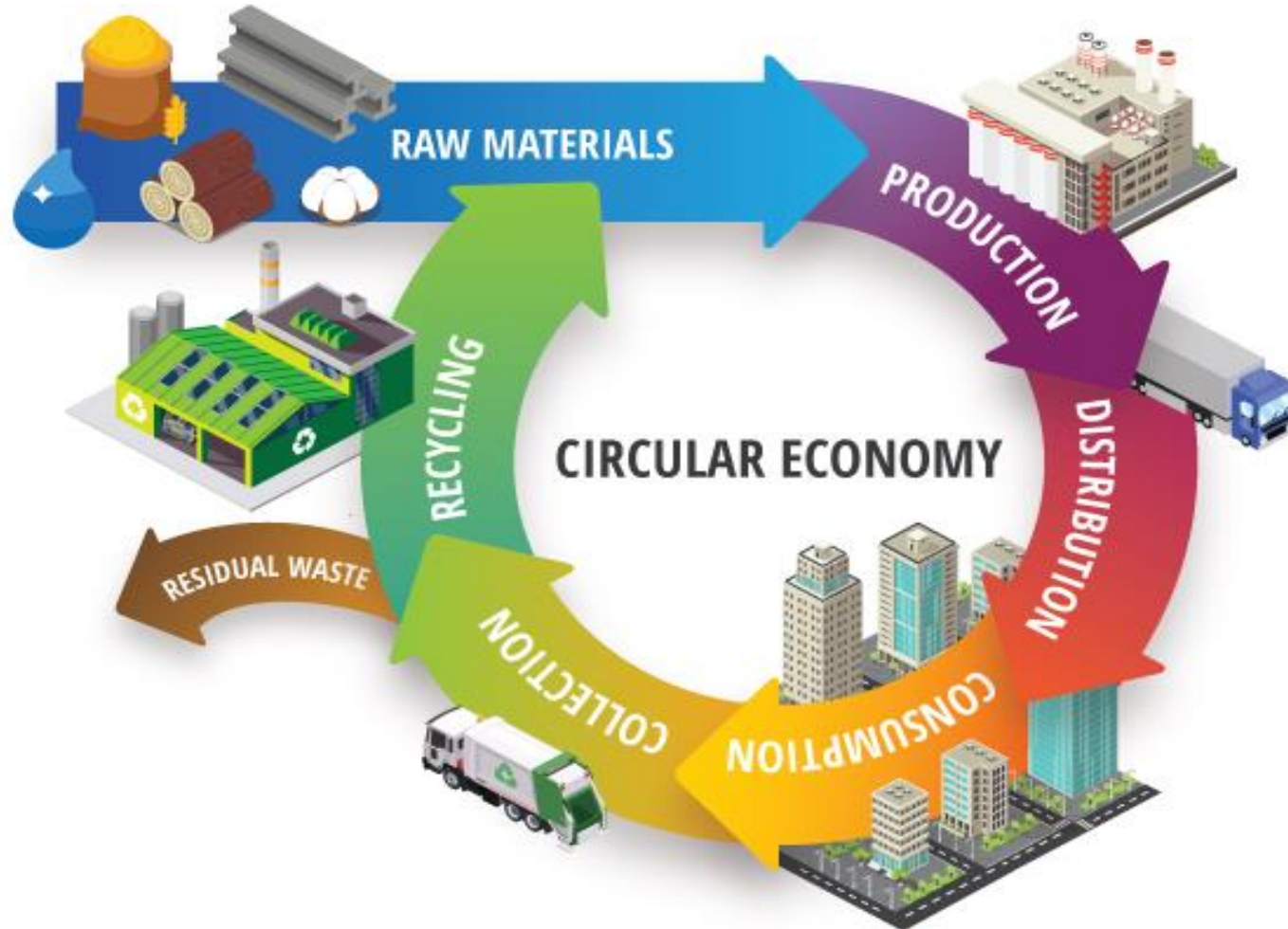
The Circular Economy for Riga and Tartu Waste Management Facilities CERITA aims to promote a circular economy approach in managing waste. The CERITA seeks to utilize the potential of hydrogen and its derivatives to improve the value chain of waste management facilities in the region.

## Circular Economy for Riga and Tartu Waste Management Facilities

The traditional method of disposing of waste in landfills is no longer sustainable due to the impact it has on the environment.

Waste management facilities need to move towards a more sustainable and circular approach to reduce the amount of waste that is landfilled and to minimize the environmental impact of waste management.

There is a need for innovative solutions that utilize new technologies and business models to create a more sustainable waste management system.

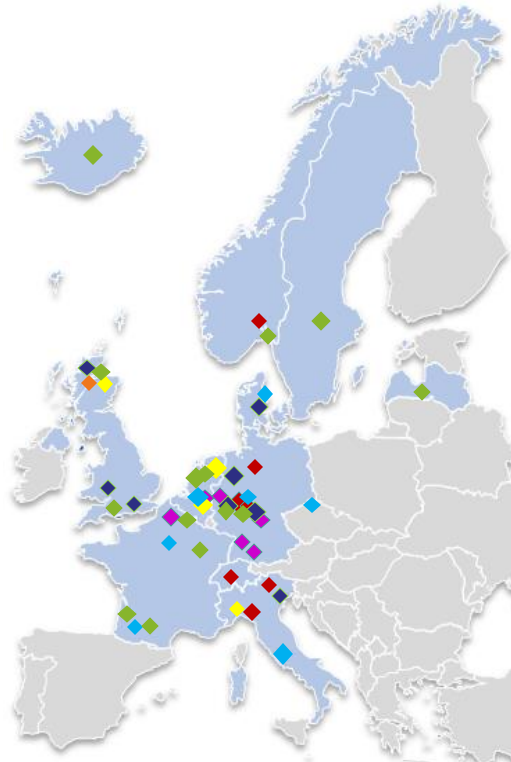


# Clean Hydrogen Joint Undertaking



## EU-funded projects

- ◆ **CHIC**  
(36 buses, plus 20 in Canada)
  - ✓ Aargau, CH;
  - ✓ Bolzano, IT; London, UK;
  - ✓ Milan, IT; Oslo, NO;
  - ✓ Cologne, DE\*; Hamburg, DE\*
- ◆ **High V.LO-City**  
(14 buses)
  - ✓ Antwerp, BE; Aberdeen, UK;
  - ✓ Groningen, NL; San Remo, IT
- ◆ **HyTransit**  
(6 buses)
  - ✓ Aberdeen, UK
- ◆ **3Emotion**  
(21 buses)
  - ✓ London, UK
  - ✓ Aalborg, DK; Pau, FR;
  - ✓ Rome, IT; South Rotterdam, NL;
  - ✓ South Holland; Versailles, FR



■ Countries with (up coming) FC buses  
✓ In operation  
✓ Planned or operation ended  
\* National funding

## National/regional-funded projects

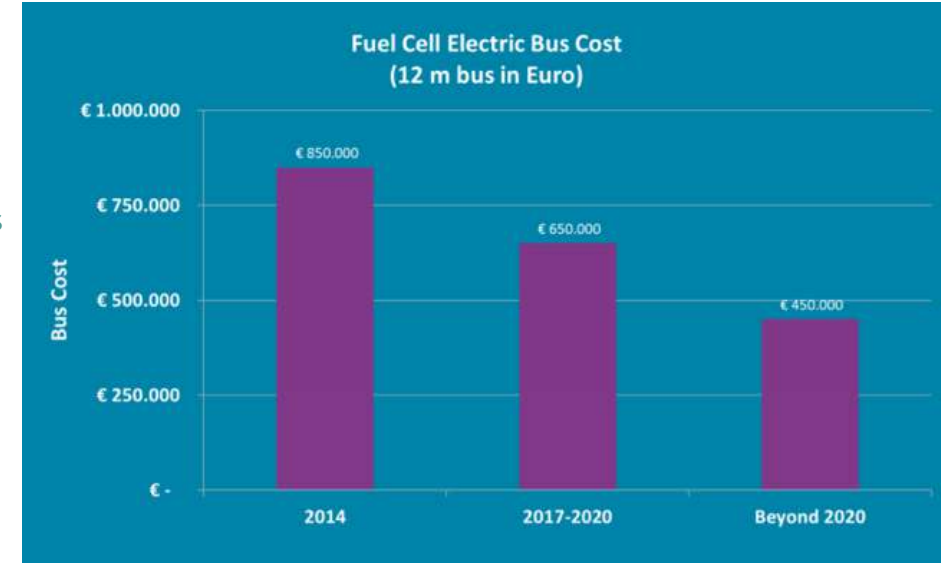
- ✓ Karlsruhe, DE; Stuttgart, DE;
- ✓ Frankfurt, DE;
- ✓ Arnhem, NL; North Brabant, NL;
- ✓ Artois Gohelle, FR

## JIVE (142 buses)

- ✓ Aberdeen, UK – 25 buses
- ✓ Birmingham, UK – 20 buses
- ✓ Bolzano, IT – 12 buses
- ✓ Cologne region, DE – 35 buses
- ✓ Gelderland, NL – 10 buses
- ✓ London, UK – 26 buses
- ✓ Wiesbaden, DE – 10 buses
- ✓ Wuppertal, DE – 10 buses

## JIVE 2 (156 buses)

- ✓ Auxerre, FR – 5 buses
- ✓ Barcelona, ES – 8 buses
- ✓ Brighton, UK – 20 buses
- ✓ Cologne region, DE – 15 buses
- ✓ Emmen, NL – 10 buses
- ✓ Groningen, NL – 20 buses
- ✓ South Holland, NL – 20 buses
- ✓ Pau, FR – 9 buses
- ✓ Toulouse, FR – 5 buses
- ✓ Wuppertal, DE – 10 buses
- ✓ Jelgava LV



**EvoBus**

**SOLARIS**

**VAN HOO**

**VDL**

**TOYOTA**

**Safra**

next steps tbc

Non European OEMs

Source : Element Energy/JIVE. Note: this list is not exhaustive.



**JIVE CEE Bus Roadshow** aims to organize FCE bus test drives on public transport routes across cities interested in the technology but cannot access the infrastructures due to their location. The objective is to have the relevant local actors test a demonstration bus to build regional capacity to deploy fuel cell bus technology to **expand the sector in the short/medium term**.

- 1<sup>st</sup> Roadshow - mid-November 2022 till end of January 2023
- Countries – Slovenia, Croatia, Czech Republic, Slovakia, Hungary



# PLANNING OF 4<sup>TH</sup> ROADSHOW IN SWEDEN



Overall and technical roadshow coordinator



National coordinator for Sweden



Coordinator of JIVE / Link to CHP JU



Supporting partner



Infrastructure provider - Bus



Clean Hydrogen Partnership



Municipality of Ljungby



Municipality of Oskarshamn



Airport of Gothenburg



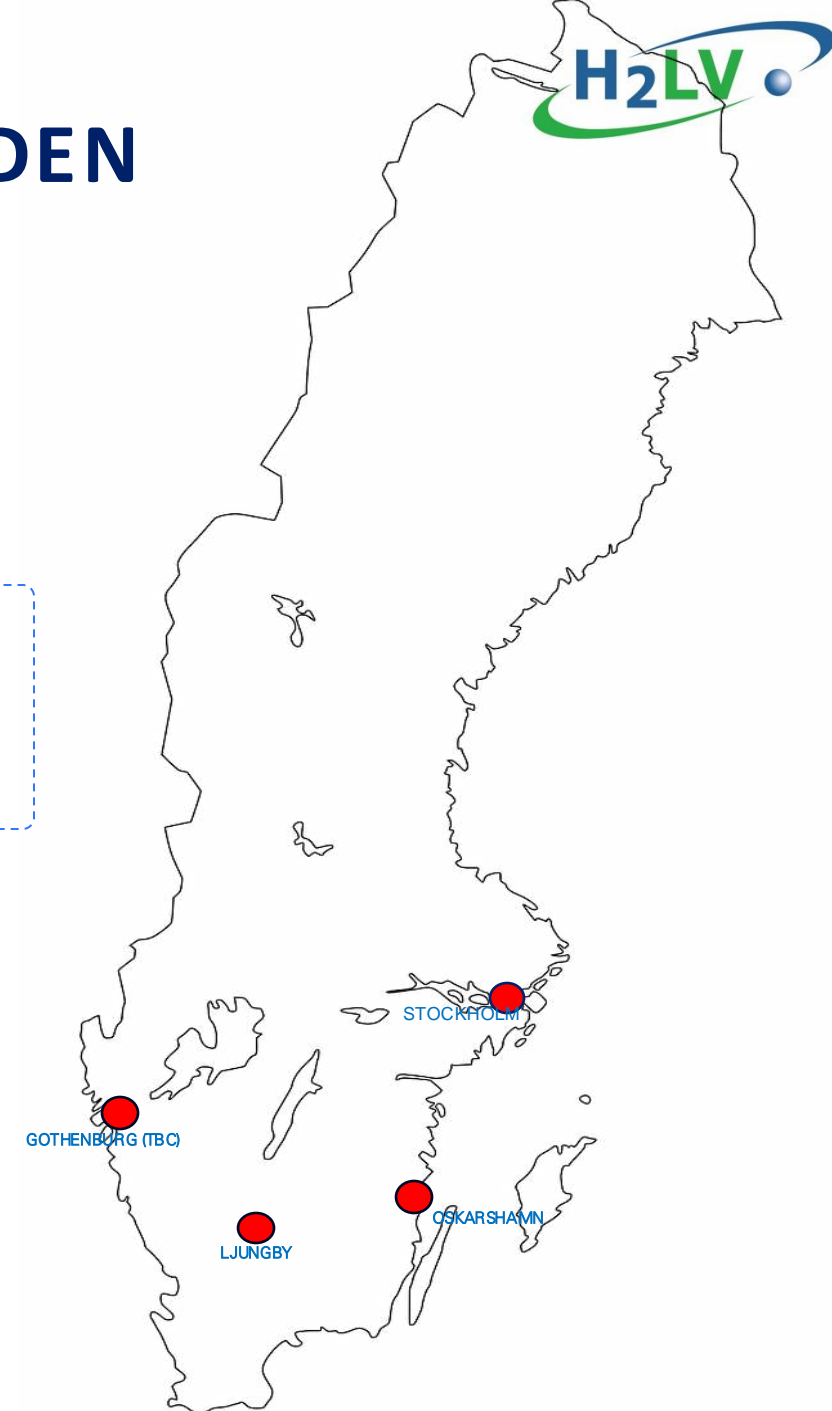
Infrastructure provider – Hydrogen Refuelling



Infrastructure provider – Hydrogen Supply



Infrastructure development support – Hydrogen Refuelling



# PLANNING OF 4<sup>TH</sup> ROADSHOW IN FINLAND

Partners: **FINAVIA**, **Cefmof**  
Finavia operates 20 airports in Finland, ensuring the best Nordic connections from Finland to the world.

- |                         |             |
|-------------------------|-------------|
| <b>Helsinki Airport</b> | Ivalo       |
| Joensuu                 | Kemi-Tornio |
| <b>Jyväskylä</b>        | Kittilä     |
| Kajaani                 | Kuusamo     |
| Kokkola-Pietarsaari     | Rovaniemi   |
| Kuopio                  |             |
| Mariehamn               |             |
| Oulu                    |             |
| Pori                    |             |
| Savonlinna              |             |
| <b>Tampere-Pirkkala</b> |             |
| Turku                   |             |
| Vaasa                   |             |
| Halli                   |             |
| Utti                    |             |



# H2Value Steps



1

## Hydrogen production

Set up a small-scale green hydrogen production plant based on solar energy.

2

## Hydrogen distribution

Establish a green hydrogen refueling station and test the transportation of green hydrogen via road.

3

## Hydrogen consumption

Use hydrogen as a zero-emissions source of fuel for transport.

4

## Analysis & strategic development

Support the development of the interregional green hydrogen value chain in Estonia and Latvia.





# Thank you!

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