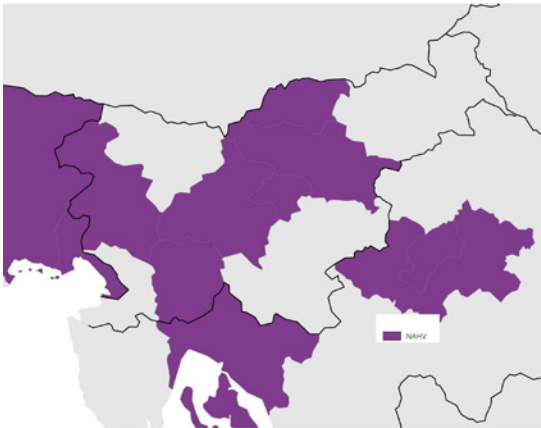


# NAHV



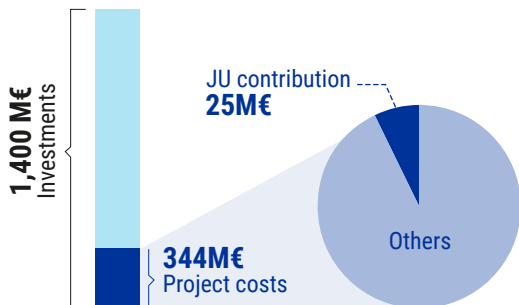
## NORTH ADRIATIC HYDROGEN VALLEY

<b>Project ID</b>	101111927
<b>PRR 2025</b>	Pillar 6 – H <sub>2</sub> Valleys
<b>Call Topic</b>	HORIZON-JTI-CLEANH2-2022-06-01
<b>Coordinator Beneficiary</b>	HOLDING SLOVENSKE ELEKTRARNE (HSE), SI
<b>Project Period</b>	01-09-2023 - 31-08-2029
<b>Location</b>	Crossborder Italy – Croatia – Slovenia



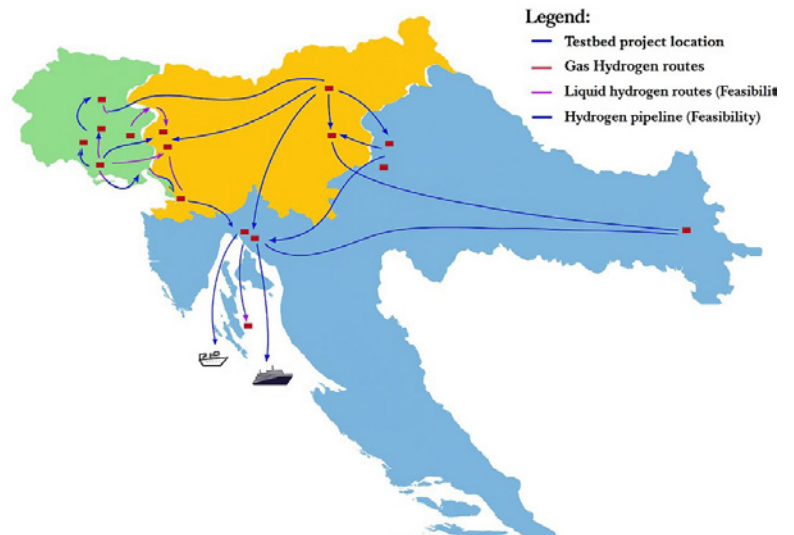
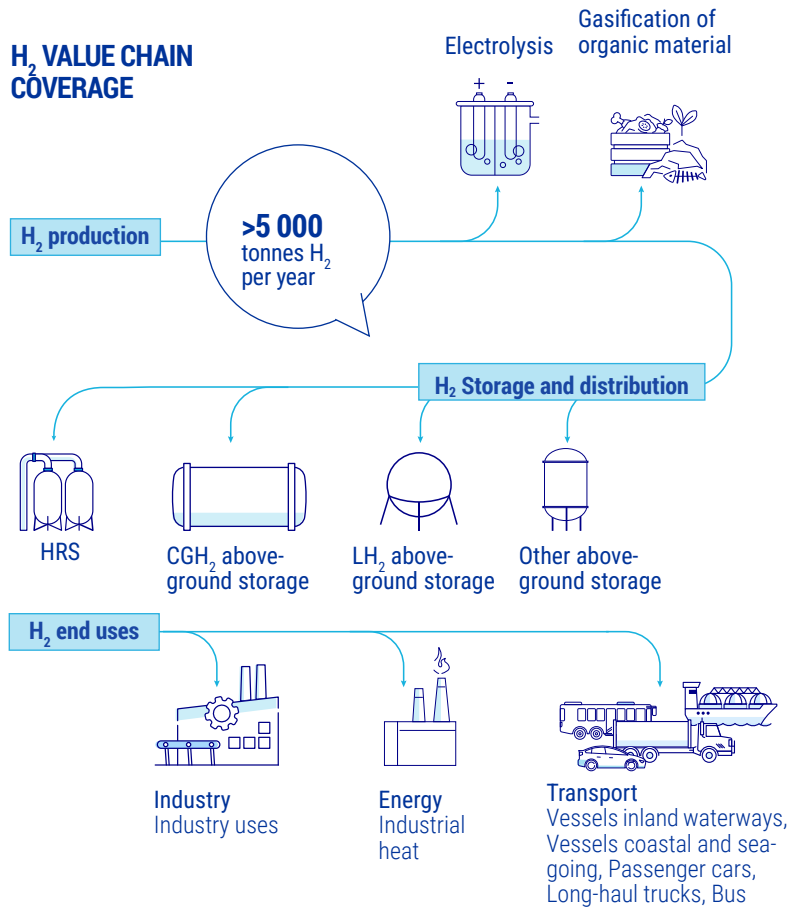
Administrative boundaries: © EuroGeographics © UN-FAO © Turstat  
Cartography: Eurostat - IMAGE, 03/2025

### Finances

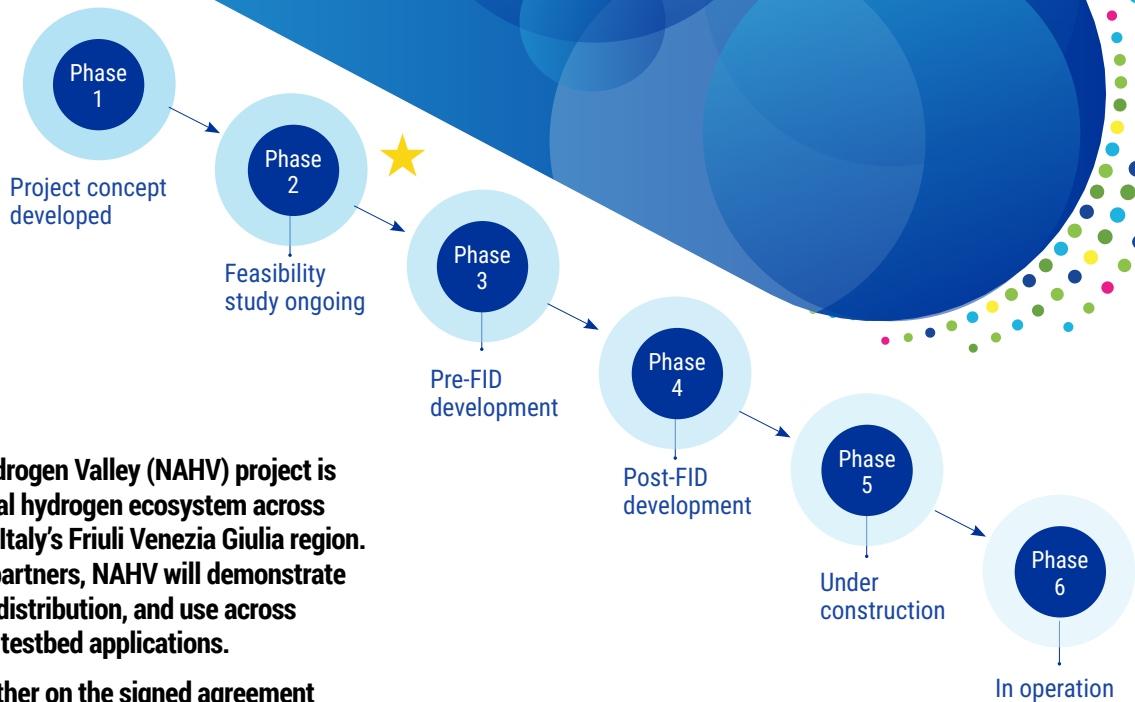


<https://www.nahv.eu/>

### H<sub>2</sub> VALUE CHAIN COVERAGE



## PROJECT TIMELINE



**The North Adriatic Hydrogen Valley (NAHV) project is building a transnational hydrogen ecosystem across Slovenia, Croatia, and Italy's Friuli Venezia Giulia region. Bringing together 37 partners, NAHV will demonstrate hydrogen production, distribution, and use across industries, piloting 17 testbed applications.**

**This project builds further on the signed agreement between the Slovenian State Secretary of the Ministry of Infrastructure, the Croatian State Secretary of the Ministry of Economy and Sustainable Development, and the President of the Friuli Venezia Giulia Autonomous Region, recognizing the relevance of regional cooperation and a cross-border hydrogen valley in boosting energy transition and promoting sectorial integration between transport, hard-to-abate industries, and end users in an integrated ecosystem.**

initiative for logistics and public transport, with an expected annual output of 370 tonnes.

- ▶ In Slovenia, the cement industry in Anhovo is utilizing hydrogen to fuel transport trucks, with an estimated production of 50 tonnes per year.
- ▶ HSE in Ljubljana has deployed a 3 MW PEM electrolyser with an initial hydrogen production capacity of 300 tonnes per year, with plans to scale up to 30 MW and 3 000 tonnes annually.

## PROGRESS, MAIN ACHIEVEMENTS AND RESULTS

### PROJECT MANAGEMENT AND FINANCING

- The establishment of an Association Internationale Sans But Lucratif (AISBL) under Belgian Law is underway, including preparing the formal documentation, definition of the business plan and organizational model, and determination of financial needs and ways to source for additional funding. The NAHV AISBL will be supported by the 3 involved countries, and it will become the governing body of the NAHV ecosystem, going far beyond the NAHV project.
- A Stakeholders Advisory Forum (SAF), including over 47 organizations from business, academia, civil society, and policy institutions, has been formed to ensure local voices influence the project. This participatory model strengthens transparency, equity, and local engagement.
- 17 pilot projects to demonstrate hydrogen applications across different sectors have been launched. These projects serve as real-world testbeds, helping to increase the technology readiness level of the technologies involved in the project:
  - ▶ In Croatia, a hydrogen-powered kiln in Dilj, Vinkovci, is expected to reduce CO<sub>2</sub> emissions by more than 20% and energy consumption by over 10%.
  - ▶ In Trieste, Italy, ACEGAS has launched a hydrogen production

### FUTURE STEPS AND PLANS

Future steps will focus on:

- Scaling up hydrogen production.
- Finalizing regulatory frameworks, by tackling the challenge of regulatory fragmentation in hydrogen policy in the participation countries: the project is piloting regulatory sandboxes, developing certification schemes, and proposing roadmaps for policy alignment.
- Encouraging further private sector investment: The established AISBL will help particular beneficiaries to find missing public funding and/or try to allocate a particular testbed or project task within the territory to allow for further funding.
- Developing and testing a model for mutualization of hydrogen production, distribution and storage that can be replicated in other hydrogen valleys.