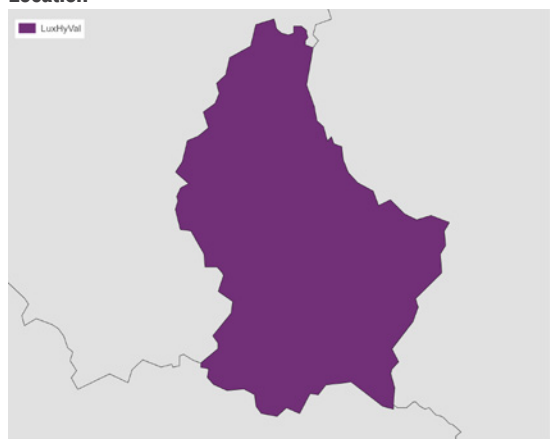


LuxHyVal

Luxembourg Hydrogen Valley delivering integrated full-chain sustainable hydrogen ecosystem with technical, economic, social and environmental benefits and superior replicability.

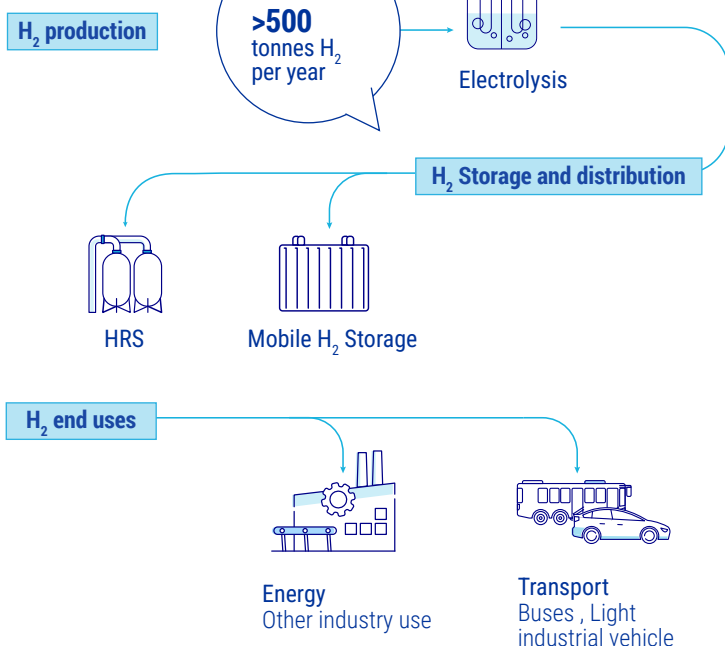
Luxembourg Hydrogen Valley

Project ID	101111984
PRR 2025	Pillar 6 – H ₂ Valleys
Call Topic	HORIZON-JTI-CLEANH2-2022-06-02
Coordinator Beneficiary	UNIVERSITE DU LUXEMBOURG, LU
Project Period	01-11-2023 - 31-01-2029
Location	Luxembourg

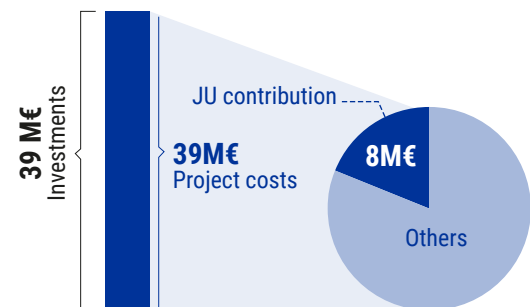


Administrative boundaries: © EuroGeographics © OpenStreetMap
Cartography: Eurostat – MAGE, 06/2023

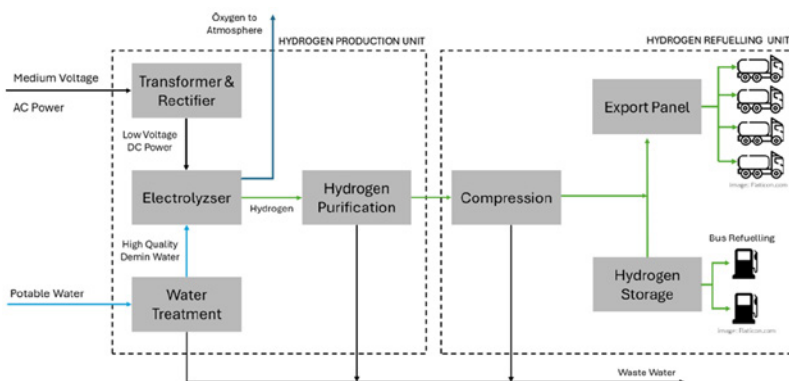
H₂ VALUE CHAIN COVERAGE



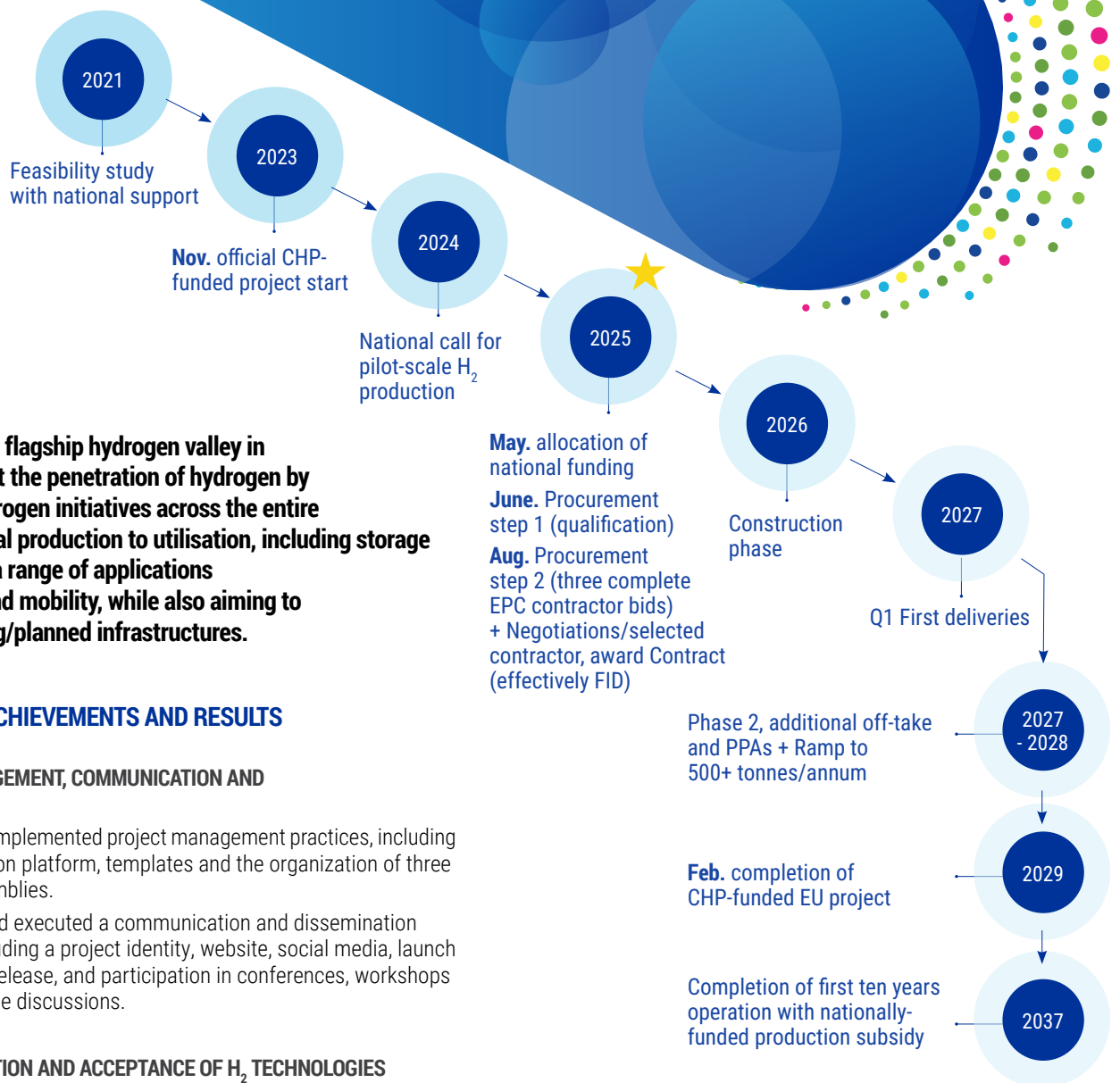
Finances



<https://luxhyval.eu/>



PROJECT TIMELINE



LuxHyVal launches a flagship hydrogen valley in Luxembourg to boost the penetration of hydrogen by deploying green hydrogen initiatives across the entire value chain from local production to utilisation, including storage and distribution for a range of applications targeting industry and mobility, while also aiming to connect with existing/planned infrastructures.

PROGRESS, MAIN ACHIEVEMENTS AND RESULTS

PROJECT MANAGEMENT, COMMUNICATION AND DISSEMINATION

- Tailored and implemented project management practices, including communication platform, templates and the organization of three general assemblies.
- Developed and executed a communication and dissemination strategy, including a project identity, website, social media, launch event, press release, and participation in conferences, workshops and roundtable discussions.

PUBLIC PERCEPTION AND ACCEPTANCE OF H₂ TECHNOLOGIES

- Ongoing analysis of hydrogen technologies perception and acceptance, to establish baseline understanding and identify gaps in H₂ technology perception:
 - Stakeholder analysis was conducted, and results are being analysed.
 - Social assessment and perception analysis for H₂ technologies are in progress.
 - Methodology for data collection through a national survey in 4 languages (for Luxembourgish residents) has been developed.

BUSINESS MODELS

- Tailored business models for key products and services are completed, focusing on electrolyser, storage, and HRS (Hydrogen Refuelling Station), CAPEX, OPEX and electricity procurement.

PLANNING AND DESIGN OF INFRASTRUCTURE

- Detailed technical design and safety plan are under development.

FUTURE STEPS

- Continued focus on enhancing project communication and visibility.
- Ongoing work on planning and technical design of the infrastructure.
- Start deployment and commissioning of the plant and related infrastructure.
- Focus on the production, storage, distribution, and use-cases of the system.
- Evaluate the project's life cycle (Project Life Cycle Assessment (LCA)) and overall performance.
- Conduct an assessment to extract lessons learned and areas for improvement.
- Develop a digital twin for optimizing, replicating, and scaling the valley project.
- Continue to work on exploitation of ERs (Energy Resources or related elements).