

# Austrian Hydrogen Valley

HI2 – Hydrogen Industrial Inland Valley Austria

15/12/2025 – Margherita Matzer (WIVA P&G)



**HI2**  
VALLEY



Clean Hydrogen  
Partnership



Co-funded by  
the European Union

# How it all started

## The Energy Model Region WIVA P&G



# WIVA P&G

Hydrogen Initiative Energy Model Region Austria Power and Gas

- WIVA P&G is a research association
- Competence network for hydrogen - research and innovation:
  - Austria-wide, transregional, thematically focused
- Experience of more than 30 completed and ongoing projects
- Projects:
  - Sectorally integrated, multidisciplinary
  - Implementing an innovation structure
  - Demonstration and testing of intelligent system solutions in practice
- Goal:
  - Support transition to a sustainable energy system

# WIVA P&G Members

21 industry and 7 research





# With single projects to an Hydrogen Valley



## ENERGY FLAGSHIP REGION FUNDED



Electrolyzer



Mobility



Industry



Storage



Pipeline



Power Plant

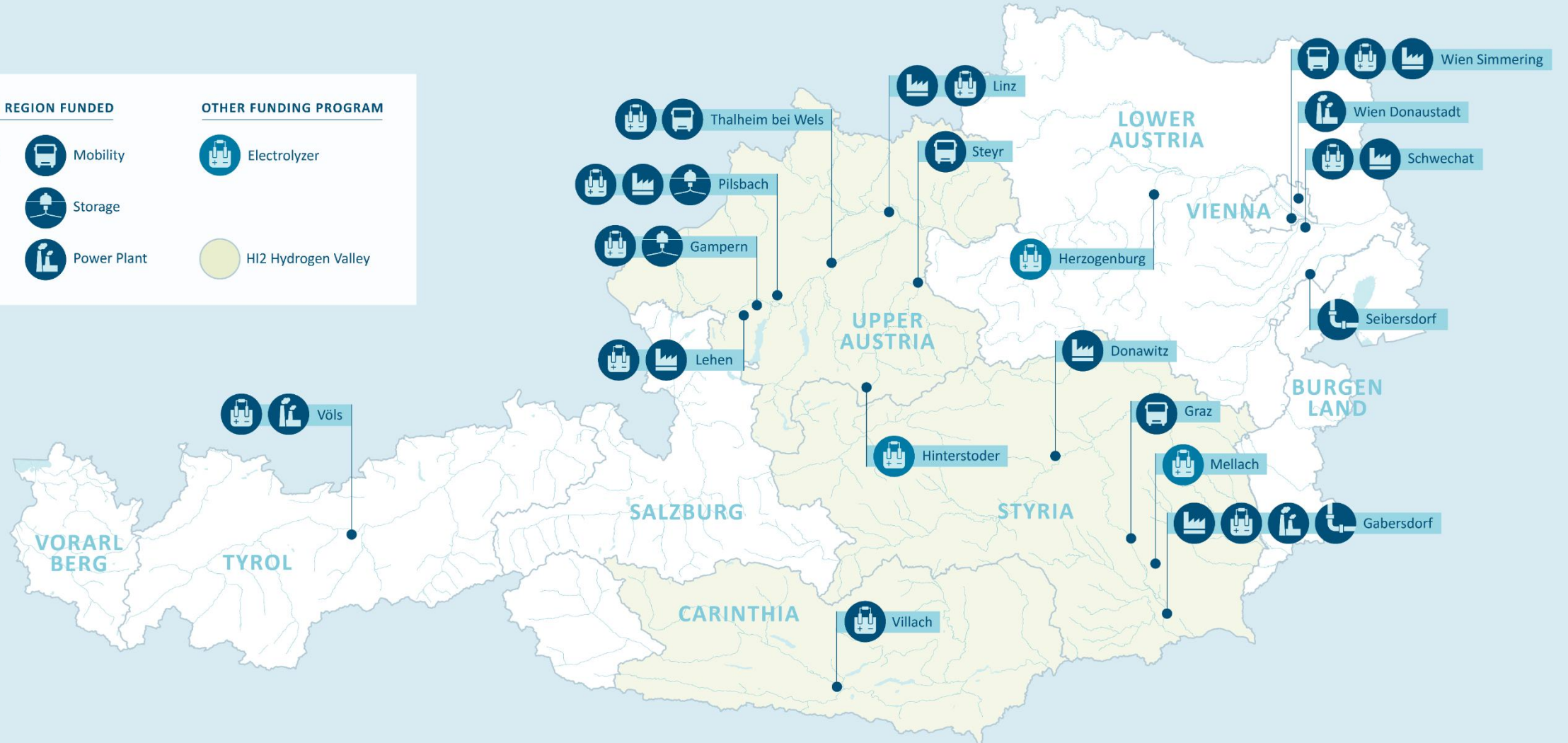
## OTHER FUNDING PROGRAM



Electrolyzer



HI2 Hydrogen Valley



# The H<sub>2</sub> Valley in Numbers

Building Europe's Hydrogen Future

**€588 Mio**

Total Project Volume\*

**€20 Mio**

\*of which are granted by the EU

**44**

Partners

**2,000**

Jobs

**6**

Year Timeframe

**101**

MW new electrolyzer

**10,000**

tonnes/year planned H<sub>2</sub> production

**200,000**

CO<sub>2</sub>-equivalent saved by 2030

# What Will We Do?

## Focus Areas



- Strengthening the entire hydrogen value chain from production, storage, and distribution to end use
- Each region will integrate open-access hydrogen pipelines, and a centrally managed tube trailer network, ensuring coordinated and efficient distribution
- H<sub>2</sub> Valley partners are committed to lowering emissions for the mobility sector but especially in some of the most energy-intensive industries, including steel, chemicals and cement



# Consortium Partners

44 Austrian and international companies and institutions drive the H<sub>2</sub> Valley



# Consortium

Consortiummeeting



February 2025, Graz



September 2025, Linz

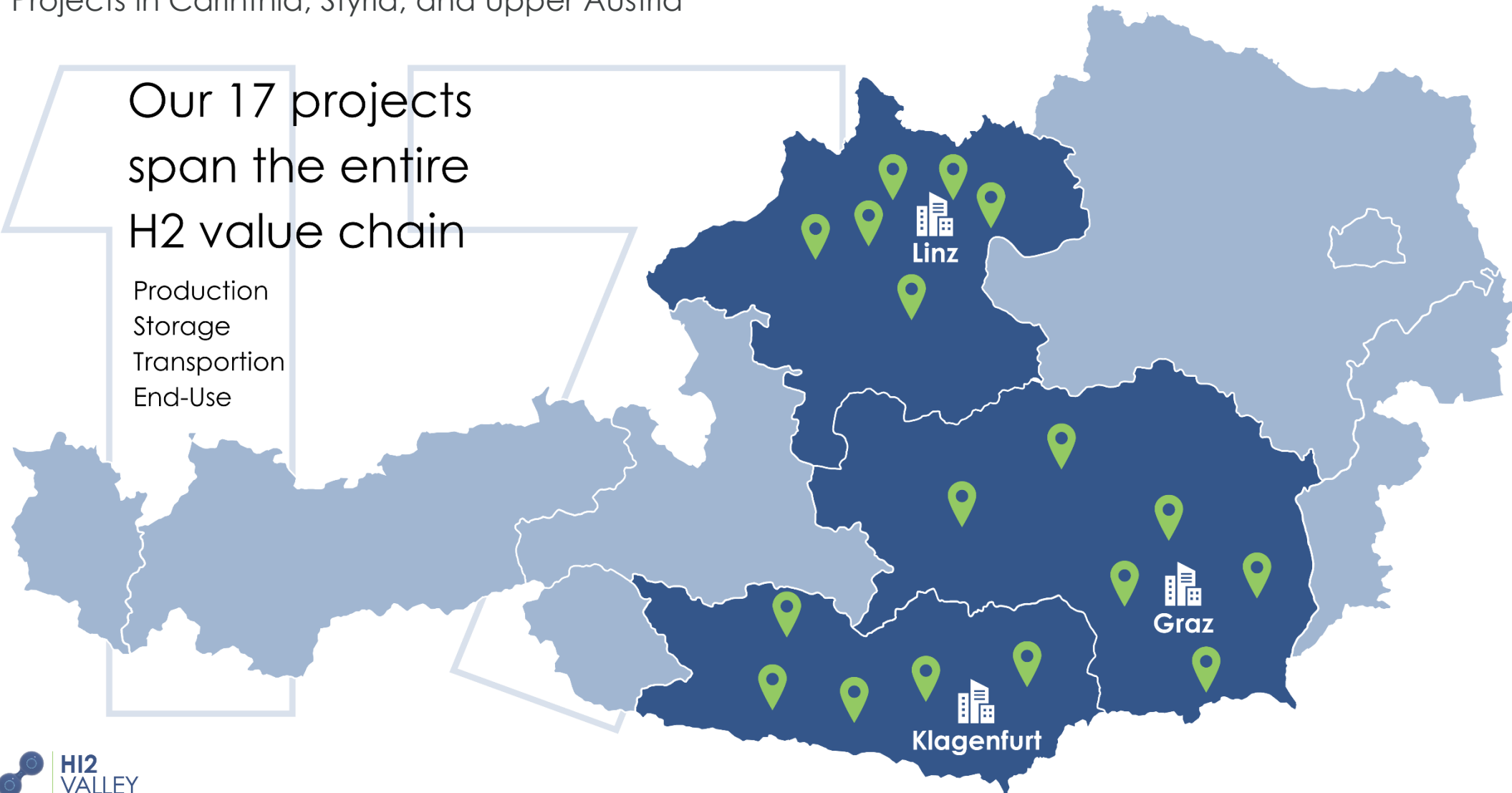
Public day of the next meeting: 2nd of March 2026, Carinthia  
Excursion: DeCarB Project

# Welcome to the Valley

Projects in Carinthia, Styria, and Upper Austria

Our 17 projects  
span the entire  
H2 value chain

Production  
Storage  
Transportation  
End-Use



# Hydrogen Production

Some H2 Valley Examples

## H2Park Asten and Energiewerk Graz

- Project partner: Municipal energy supplier, approx. 5 MW electrolyzer next to a waste recycling plant. Hydrogen feed-in to the gas grid, oxygen utilization in the waste recycling plant, waste heat utilization for the district heating system.

## H2UPSTAGE

- Project partners: Austrian gas storage service provider, several electrolyzers in the range of 10 to 30 MW in neighbouring municipalities, direct connection to the H2Startnetwork hydrogen pipeline system, underground storage in porous rock from old gas storage facilities.

## Green Refractory and CemChem

- Consortium: Composed of several industrial companies and the gas network operator, electrolysis plant on the premises of an industrial partner, distribution via pipeline to other industrial companies in the area.



# Hydrogen Use

Some H<sub>2</sub> Valley Examples

## Hy4Smelt

- **Sector:** Steel production, already in the final pilot phase, after which it can be used conventionally.  
**Status:** Plant currently under construction

## Green Lime

- **Sector:** Cement production, test whether a mixture of hydrogen and natural gas can provide the heat needed for cement production.  
**Status:** still in planning

## DeCarB

- **Sector:** Mobility, electrolysis and refuelling station to be built on the premises of a bus operator and 30 new hydrogen buses to be purchased.  
**Status:** Electrolysis currently being set up, two test buses already in operation.

# Whats with the other projects?

## Barriers

### Technical barriers:

- **Technical readiness:** There is a lack of experience with the systems/technologies, so a plug-and-play approach is not possible
- **Power grid:** The size of electrolyzers is often limited by the power grid

### Legal barriers:

- **Regulations:** Changes and withdrawals of legal requirements
- **Safety requirements:** Some are still being developed
- **Certification:** Long-term planning not possible

### Financial barriers:

- **Funding:** Planning uncertainty for existing and upcoming funding programmes
- **Price:** Price expectations of consumers and producers often vary widely

# What's Next?

## Timeline

- 2025 & 2026 – Planning Phase
- 2027 & 2028 – Implementation Phase
- 2029 & 2030 – Operational Phase



# THANK YOU

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