



# Hydrogen Europe Research

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## Towards an EU roadmap for Hydrogen Valleys

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*Collaboration of H2 Valleys. Successful engagement of public and private stakeholders*

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# Hydrogen Valleys: a multi-level approach

REPowerEU and further policies/initiatives are requiring a **paradigm change** in the way we are facing the present situation, in terms of **timing, magnitude and actions**.

## EUROPEAN LEVEL



- **Strategic approach** for a continental plan;
- Common objectives in terms of **impact**;
- Support to **key enabling** factors.

## NATIONAL LEVEL



- **Coordinated** policy actions;
- **Development** of the hydrogen value chain;
- Industrial and territorial assets.

## REGIONAL LEVEL



- **Implementation** of policies;
- Kick off hydrogen valleys;
- **Support** to key infrastructures and local initiatives.

# EU Hydrogen ambition: how the scientific community can support

1

## Accelerate technology development

- Novel technologies, codesign & co-development;
- Open/joint/large technology infrastructures;
- Industrial relevance.

2

## Integration of learnt lessons into new projects

- Territorial support;
- Onboarding of learnt lessons, striving for scale-up of technologies.

3

## Next generation at the forefront

- Support the incremental development of hydrogen technologies.

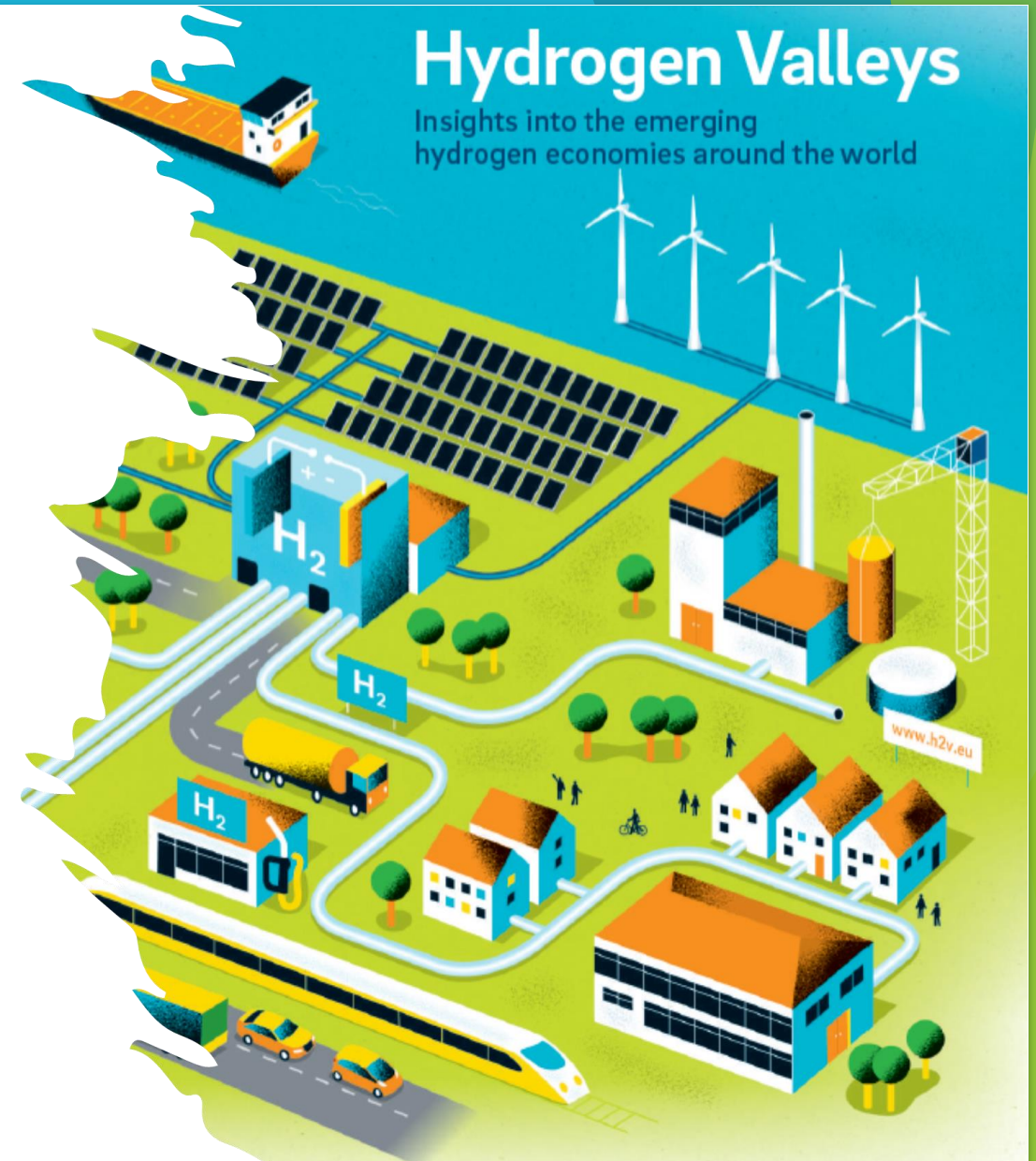
4

## Training of the future workforce

- Train the workforce of the European hydrogen sector;
- Engineers, technicians, chemists...

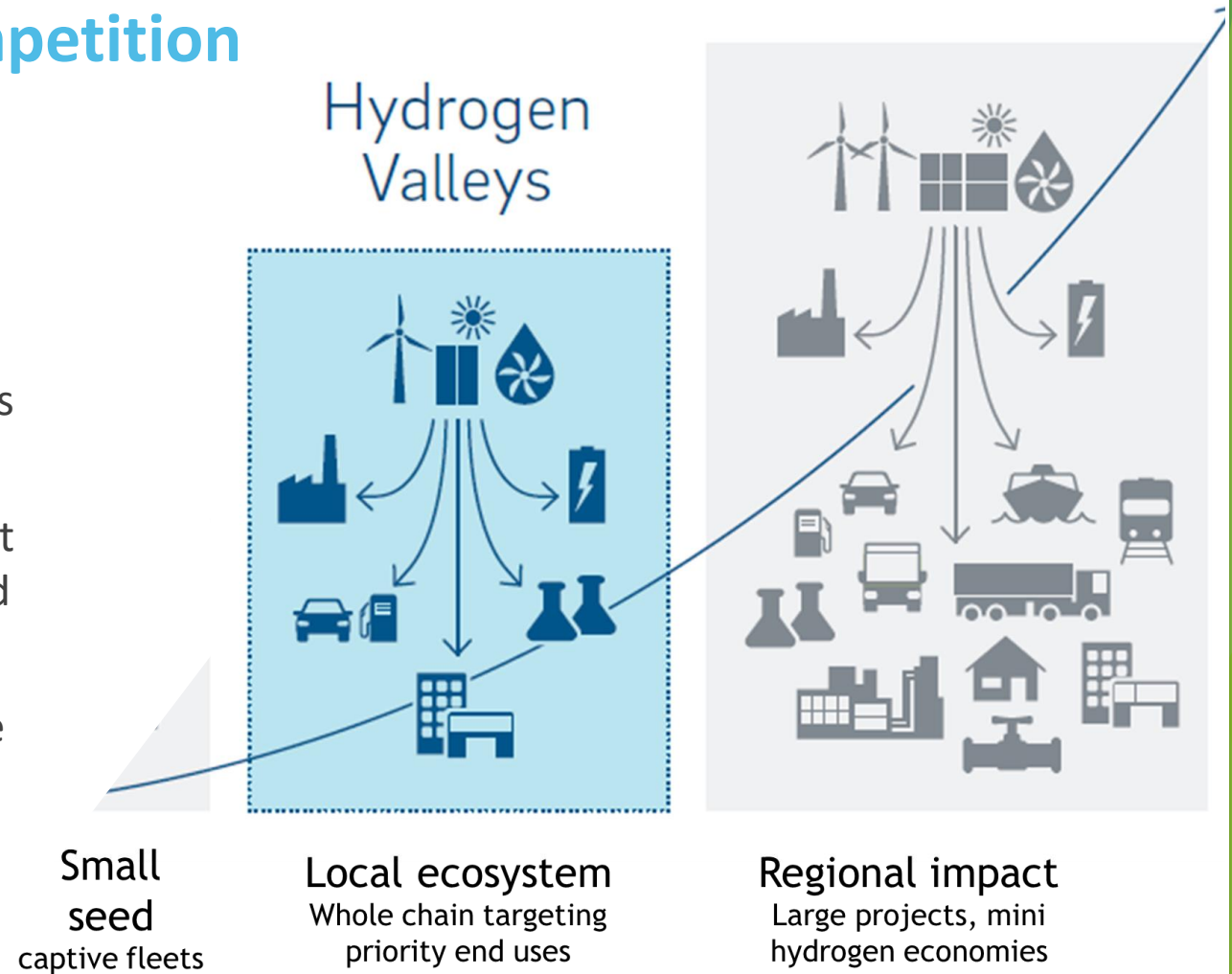
## Hydrogen Valleys: the role of research at regional-level

- Research as a key enabling factor for local industrial clusters;
- Support to the development and demonstration of Hydrogen Valleys in hard-to-abate sectors;
- Models and tools to support initiatives at multi-scale and multi-purpose territorial implementation;
- Advice to policy-makers in adopting strategic territorial and industrial plans;
- Support to industries in their decarbonisation plans, deploying hydrogen at the lowest cost and highest impact with multi-objective optimisation tools;
- **Lessons learnt are crucial**: research can carry out the scientific, technical and economic monitoring of regional initiatives.



## Hydrogen Valleys: catalysts for collaboration and competition

- Lessons learnt can enable the collection of techno-economic values on performance, availability and costs;
- This will create confidence on hydrogen solutions for investors and decision-makers;
- Awareness on what is working properly and what should be improved with additional research and development efforts;
- Hydrogen Valleys will provide information on the required workforce, advising on the training efforts for skilled workers.





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