Towards an EU roadmap for Hydrogen Valleys

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

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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**.

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

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

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

**Hydrogen Valleys: a multi-level approach**

**EUROPEAN LEVEL**

**NATIONAL LEVEL**

**REGIONAL LEVEL**
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.

Source: Roland Berger for FCH JU
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.

Hydrogen Valleys: catalysts for collaboration and competition
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Thank you for your support!