



FUEL CELLS AND HYDROGEN
JOINT UNDERTAKING

**Information Sharing
Platform**
preliminary concept

Mirela Atanasiu
Head of Unit



‘Platform for exchanges between worldwide initiatives on H2 valleys’



Global Information Sharing Platform within MI-IC8, to facilitate the emergence and implementation of large-scale hydrogen projects and leveraging the knowledge (where IPR issues are less sensitive)

“Hydrogen Valleys /hydrogen ecosystems/hydrogen clusters/hydrogen economies” – that brings together various hydrogen applications in one place, develops local hydrogen infrastructure and builds-up local/regional value chains, or their critical components

- in industrial clusters, or be city- or region-driven;

EU interest: increased international cooperation of EU Member States and Associated Countries in the context of Mission Innovation within the FCH 2 JU activities:

- projects/grants collaboration with similar worldwide activities and
- dedicated activities for exchanges between different worldwide initiatives on H2 Valleys;

Duration: 18-24 months



Main objectives of the Platform



Consolidation of the existing material of interest from across the globe to offer a “one-stop-shop” service for “Hydrogen Valley” developers and governments interested in expanding their engagement in hydrogen technologies.

- To facilitate sharing of the lessons learned and collaboration between projects. In particular, the tenderer should liaise with the various projects and identify the areas where the projects feel info sharing/discussion is needed/of value;
- To coordinate stakeholder efforts (especially where similar barriers exist) in order to align the resources and/or to avoid duplications;
- To support forming of possible collaborations/consortia for MI-IC 8;
- To ultimately enlarge the scope of existing FCH JU’s activities by adding the global dimension.



Task 1: Mapping of the existing “Hydrogen Valleys” (including projects in advanced stages of development/planning) incl.

- *Mapping R&I programmes at National/regional/local level;*
- *Mapping/harmonize KPIs?*
- *Identify success stories?*
- *Regulations, certification (guarantees of origin) etc;*

Task 2: Identify and collect related data (at macro and micro level) on each H2 Valley

- Project development scheme (incl. rationales, business and financing model), collaborations, public engagement etc - most promising approaches and concepts for replication (including best practices/guidance for generic topics);***
- Achievements, key issues for the applications that are susceptible to constitute the main pillars of future “Hydrogen Valleys ” and propose and initiate the steps towards finding solutions at a global level;***
- Establish dossiers with available tech solutions/products (‘living’ document) – see already 24 dossiers/business cases of FCH JU regions;***

Task 3: Identify main showstoppers (issues)/barriers for larger-scale hydrogen deployments, propose the way forward and initiate actions to overcome these issues

- *Analyse data in task 2 + possible other R&I projects in support of MI-IC8's objectives;*
- *Challenges in each location, links to similar regions/countries for link/replication possibilities;*
- *Common research interests; centers of excellence for characterization, testing etc;*
- *Other research areas for H2 use than FC? (gas turbines, H2 for flexible power generation/grid-services);*
- *Mechanism to facilitate formation of cross-border consortia (common funding, twining of similar projects)*

Task 4: H₂ carriers at global level

- *Desk research to establish an inventory of key studies? Working/expert group at global level?*
- *Liquid H₂ or LOCH/MeOH ?*

Task 5: Communication and dissemination of results

- **Success stories for public outreach/acceptance;**
- **Advocacy;**
- **Work/act together as customers?**
- **Workshops/thematic meetings (on dedicated research topics) etc; list of events?**

Task 6. Project management and coordination



'Info-sharing Platform between worldwide initiatives on H2 valleys' (18-24 months)



Task 1: **Mapping** of “Hydrogen Valleys” (including projects in advanced stages of development or planning, funding programmes/topics etc)

Task 2: **Identify and collect related data** (at macro and micro level) on each H2 Valley

Task 3: **Analyse data and identify main showstoppers** (issues)/barriers for larger-scale hydrogen deployments, propose the way forward and initiate actions to overcome these issues

Task 4: **H2 carriers at global level**

Task 5: **Communication** of results, public outreach

Task 6. Project management and coordination





FUEL CELLS AND HYDROGEN JOINT UNDERTAKING

Mirela Atanasiu

HoU Operations and Communication
Mirela.Atanasiu@fch.europa.eu

For further information

www.fch.europa.eu
www.hydrogeneurope.eu
www.hydrogeneurope.eu/research



@fch_ju



Fch-ju@fch.europa.eu



FCH JU