

Smart Specialisation Platform for Industrial Modernisation

Thematic S3 Partnership

European Hydrogen Valleys Partnership

Start Date May 22nd 2019

MONITORING PROGRESS REPORT

Reporting Period: from January 2019 to June 2019

This Report is presented to the relevant Working/Steering Committee.
It contains three parts:

- I. Management Report prepared by the Lead Region(s)***
- II. Progress Report prepared by the Lead Region(s)***

The report is updated every six months.

Confidentiality: this document (part I) will be made available to the public via your Partnership's web page except for chapter *II.E. Self evaluation*.

Based on the monitoring results, the European Commission will decide on the following term's support.

Executive summary (max. 250 words):

Decarbonisation of the global economy is one of the essential challenges of the 21st century. The reduction of GHG emissions is key to mitigate global warming and its effects on human societies and ecosystems. In this framework, the EU set up an ambitious objective: to be the first climate neutral economy by 2050.

The European Hydrogen Valleys Partnership falls within this context. Fuel cells and hydrogen (FCH) technologies have the potential to play a key role in this energy transition process. Indeed, fuel cells and hydrogen provide a safe and competitive zero-emission solution for a growing number of applications, when produced as “green hydrogen” with renewable energy sources. By providing means of storage, hydrogen solves, in conjunction with other technologies like batteries for instance, the imbalance between energy supply and demand, therefore avoiding energy waste and facilitating the integration of renewable energies within the energy grid. To achieve the decarbonization of the EU economy, FCH technologies are, thus, a promising solution which needs to be further deployed.

The key objectives of the partnership are the following:

- o Develop the technological readiness and the commercial availability of FCH applications*
- o Overcome the lack of access to information and expertise in the field hydrogen*
- o Facilitate match-making and co-investment between European regions*
- o Strengthen the value chain for FCH technologies via interregional cooperation*
- o Contribute to the decarbonization of the EU's economy*
- o Green the production of hydrogen*
- o Be an active stakeholder on EU policy making on hydrogen*

I. Management Report prepared by the Thematic Platform/Lead Region(s)

I.A. Partnership Action Fact Sheet

- **Partnership:** *European Hydrogen Valleys Partnership*
- **Partnership's web-page:** *<https://s3platform.jrc.ec.europa.eu/hydrogen-valleys>*
- **S3 Thematic Platform:** *Industrial Modernisation*
- **Objectives:** *Support the development of the fuel cells and hydrogen value chain in Europe and the deployment of these technologies*
- **Lead Region(s):** *list of regions/countries leading this partnership*

<i>Normandie + Auvergne Rhône Alpes + the Northern Netherlands + Aragon</i>
<i>Please enter here...</i>
<i>Any other comments</i>

- **Official partner regions:** *list of regions/countries that have officially committed to follow this partnership and have been active in the last six months.*

<i>Castilla la Mancha</i>	<i>Please enter here...</i>	<i>Please enter here...</i>
<i>Please enter here...</i>	<i>Please enter here...</i>	<i>Please enter here...</i>
<i>Please enter here...</i>	<i>Please enter here...</i>	<i>Please enter here...</i>
<i>Please enter here...</i>	<i>Please enter here...</i>	<i>Please enter here...</i>
<i>Please enter here...</i>	<i>Please enter here...</i>	<i>Please enter here...</i>
<i>Please enter here...</i>	<i>Please enter here...</i>	<i>Please enter here...</i>
<i>We expect to receive the commitment letters by the 24th of June, before the kick-off meeting of the partnership</i>		

- **Other regions:** *list of regions/countries that have expressed their interest in this partnership but have not signed a commitment letter).*

<i>Entwicklungsagentur Region Heide</i>	<i>Nouvelle-Aquitaine Régional Council</i>	<i>Region Grand Est</i>
<i>Castilla y Leon</i>	<i>Arnhem Nijmegen City Region</i>	<i>Région SUD – Provence-Alpes-Côte d'Azur</i>
<i>North Rhine-Westphalia</i>	<i>Pays de la Loire Region</i>	<i>Please enter here...</i>
<i>Baden-Württemberg</i>	<i>Brittany Region</i>	<i>Please enter here...</i>
<i>Bourgogne Franche-Comté</i>	<i>Region Hauts-de-France</i>	<i>Please enter here...</i>
<i>Emilia Romagna Region</i>	<i>Occitanie Region</i>	<i>Please enter here...</i>
<i>Any other comments</i>		

- **Intentions to join:** *list any regional/national authorities*
(Please list here all other regions that have expressed their interest to join the partnership)

- **Other participants (other than national/regional authorities):**
(Please list here all other (non-region) participants (clusters, institutes, RTOs, etc.))

<i>Sogn og Fjordane County Municipality</i>	<i>Provinciale Ontwikkelingsmaatschappij West-Vlaanderen</i>	<i>Sandviken Municipality</i>
<i>CITY OF IERAPETRA</i>	<i>City of Kozani</i>	<i>SPILAMBERTO MUNICIPALITY</i>
<i>CITY OF HERAKLION</i>	<i>Stara Zagora Municipality</i>	<i>Orkney Islands Council</i>
<i>Scottish Hydrogen & Fuel Cell</i>	<i>Marigerfjord Municipality</i>	<i>Swindon and Wiltshire Local</i>

Association	Enterprise partnership
And also: "Tay Eco-Valley" Hydrogen Partnership; Torres Vedras Municipality	

<p>Representative of Lead Region 1: (name, institution, address, phone, e-mail) Zoé BUYLE-BODIN, Normandy Region - +33 (0)2 31 06 78 87 - zoe.buylebodin@normandie.fr</p>	<p>Representative of Lead Region 2 (if applicable): (name, institution, address, phone, e-mail) Mathilde CADIC, Auvergne Rhône Alpes Region - +33 (0)4 26 73 61 01 - mathilde.cadic@auvergnerhonealpes.fr</p>
<p>European Commission Coordinator: (name, e-mail) Nikos Pantalos, nikos.pantalos@ec.europa.eu</p>	<p>Any other relevant information: Representative for the Northern Netherlands: Karlijn VAN BREE - vanbree@snn.nl Representative for Aragon: Francisco VIGALONDO - francisco.vigalondo@aragonexterior.es</p>

I.B. Thematic Working Areas (WA)

- **Thematic Working Areas** (if any, please list of WAs, region(s) in charge of it, names and affiliations of involved regional/national authorities, and other actors)

Working Area	Region in Charge	Involved regions	Other actors
Sectoral integration	TBD	TBD	Other actors
Zero-emission mobility	TBD	TBD	Other actors
Hydrogen for heating and cooling applications	TBD	TBD	Other actors
Hydrogen as industry feedstock	TBD	TBD	Other actors
These areas still have to be confirmed depending on the results of the mapping exercise which will take place from July to September 2019			

I.C. Overview of past activities (past six months, the 1st half of 2019)

Past Meetings

Title	Date	Place
European Hydrogen Valleys Partnership launching event	May 22 nd 2019	Lyon, EVS32 conference
Please enter title here...	Please enter date here...	Please enter place here...
Please enter title here...	Please enter date here...	Please enter place here...
Any other comments		

Past Workshops

Title	Date	Place
Please enter title here...	Please enter date here...	Please enter place here...

<i>Please enter title here...</i>	<i>Please enter date here...</i>	<i>Please enter place here...</i>
<i>Any other comments</i>		

Past Dissemination Activities

<i>Title</i>	<i>Date</i>	<i>Place</i>
<i>Please enter title here...</i>	<i>Please enter date here...</i>	<i>Please enter place here...</i>
<i>Please enter title here...</i>	<i>Please enter date here...</i>	<i>Please enter place here...</i>
<i>Any other comments</i>		

I.C. Overview of future activities (the next 6 months – the 2nd half of 2019)

Future Meetings

<i>Title</i>	<i>Date</i>	<i>Place</i>
<i>European Hydrogen Valleys Partnership kick-off meeting</i>	<i>June 25th 2019</i>	<i>Brussels</i>
<i>Analysis of the mapping results and launch of the thematic working groups.</i>	<i>October 2019</i>	<i>Brussels (tbc)</i>
<i>Please enter title here...</i>	<i>Please enter date here...</i>	<i>Please enter place here...</i>
<i>Any other comments</i>		

Future Workshops

<i>Title</i>	<i>Date</i>	<i>Place</i>
<i>1st meetings of the thematic working groups</i>	<i>October - December 2019</i>	<i>TBD</i>
<i>Please enter title here...</i>	<i>Please enter date here...</i>	<i>Please enter place here...</i>
<i>Any other comments</i>		

Future Dissemination Activities

<i>Title</i>	<i>Date</i>	<i>Place</i>
<i>Please enter title here...</i>	<i>Please enter date here...</i>	<i>Please enter place here...</i>
<i>Please enter title here...</i>	<i>Please enter date here...</i>	<i>Please enter place here...</i>
<i>Any other comments</i>		

II. Progress Report prepared by the Lead Region(s) of the partnership, describing **results achieved during this period**, in no more than 3 pages (the report is “cumulative”). All items listed in Sections A, B, and C, below, must be addressed.

Additional documentation such as extended technical reports and/or proceedings of workshops may be provided separately as an annex to this report (and should be referenced in the report).

II.A. Innovative results

- Innovative results and achievements that could be attributed to the Partnership. (Specific examples of Results vs. Objectives).

NA

- Tangible short- and medium-term socio-economic impacts achieved or expected. (Specific examples).

NA

II.B. Inter-regional and inter-partnership collaborative results

- Additional results obtained from working *with other partnerships* under the thematic S3 Platforms. (Specific examples).

NA

- Evaluation of the involvement of relevant business sector (clusters, SMEs, business associations, chambers of commerce, Digital Innovation Hubs (DIHs), etcetera) in the Partnership activities. (Specific examples)

NA

- Evaluation of whether **the level of inter-regional cooperation is sufficient** to potentially provide *practical and relevant socio-economic impacts*. (Specific examples)

NA

II.C. New activities

- Involvement of regions from EU13 Member States in the Partnership, in particular with respect to scoping, mapping and/or matchmaking. *In addition, justification should be provided if no EU13 regions are involved.*

NA

- Involvement of regions/countries from outside of EU28 Countries. (Number of participants from non-EU countries. Specify their contribution).

NA

- Advancement and promotion of the Partnership through publications and other communication/outreach activities. (Number of outreach activities that resulted from the Partnership. A complete list with references and web-links should be given in an annex).

NA

- Activities and projects with partnerships working under other S3 Thematic Platforms (Agri-Food, Energy and Industrial Modernisation).

Future activities with partnerships under the Energy S3 Platform will be considered after the kick-off meeting.