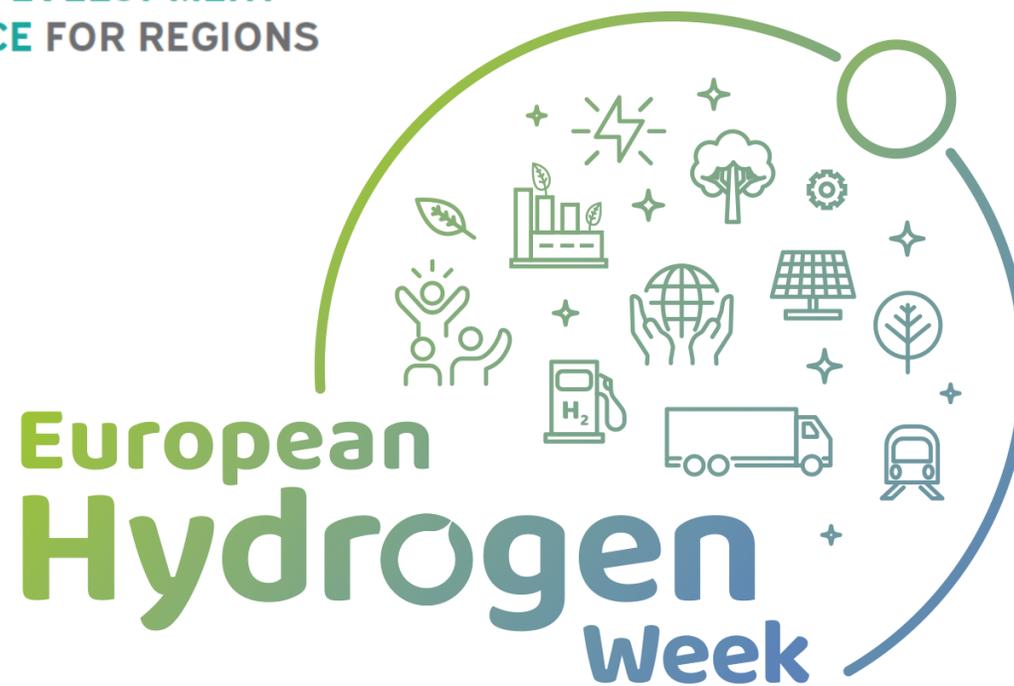




PROJECT DEVELOPMENT
ASSISTANCE FOR REGIONS

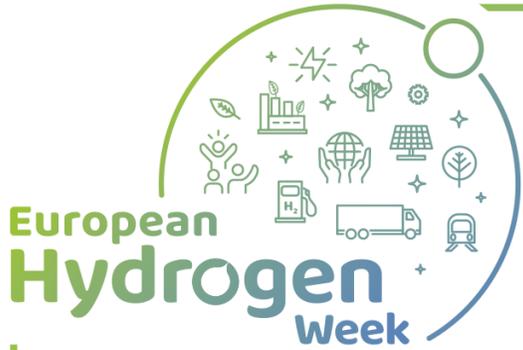


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<https://www.fch.europa.eu/page/going-fch-ju-pda-regions>
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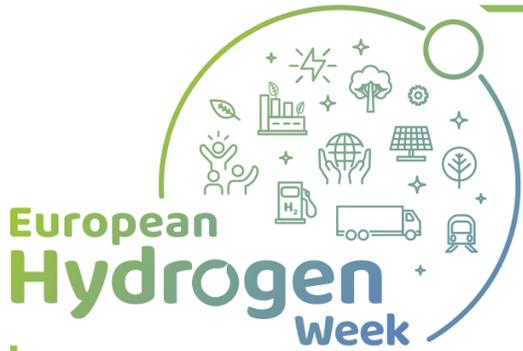
#PRD2020
#CleanHydrogen





Project Overview

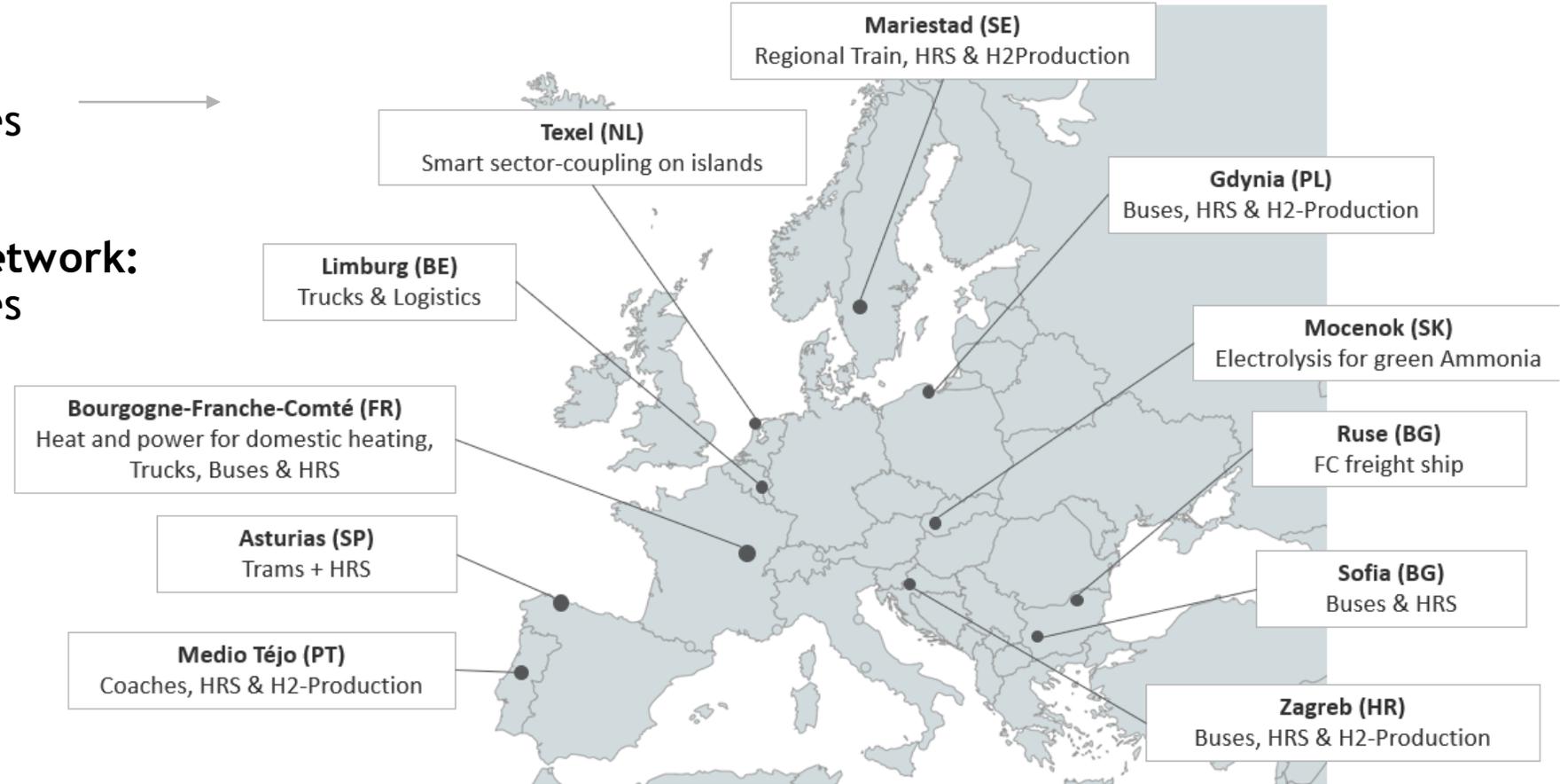
- Procurement year: 2019
- Procurement topic: FCH / OP / CONTRACT 242 “Project development assistance for regions”
- Project dates: 08.10.2019 - 07.06.2021 (selection of regions: 15.05.2020)
- % stage of implementation 01/11/2020: 30 %
- Total project budget: 742.080,00 €
- FCH JU max. contribution: 742.080,00 €
- Other financial contribution: 0 €
- Partners: Spilett n/t, Element Energy SARL, WaterstofNet, Trezors, Wise Europa



PDA supported regions and focus

Regions receiving support
11 regions from 10 countries
(45% EU13)

Regions in the observer network:
35 regions from 18 countries
(37% EU13)



PDA aim and support activities



The total level of investment in local or regional fuel cell and hydrogen projects is expected to total €1.8 billion over the next 5 years. The Project Development Assistance (PDA) for Cities and Regions programme aims to support regions to develop **detailed deployment plans for their hydrogen projects** with a planned total budget of 336 Mio € (12 - 90 Mio € per region).



Support provided through PDA will enable 11 European regions to develop:

- Project delivery groups & working groups
- Project business cases for a defined system setting
- Budgets, funding and financing plans
- Procurement strategies

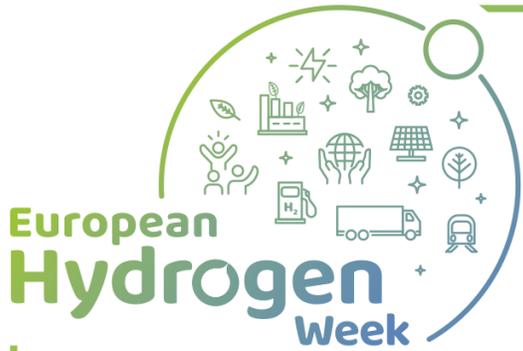
PDA observer network focus

Provide general information on

-  Technology characteristics and potential
-  Technology and market readiness
-  Experiences and best practice (technologies, projects)
-  Procurement and financing strategies
-  Project development, application for grants, business case development, joint activities (pooling)

Initiate

-  Exchange and networking between regions with similar interests
-  Exchange and networking with FCH experts and industry
-  Awareness on implications to daily operation / existing processes
-  Collaboration in neighbouring regions to set up cross-border hydrogen supply chains

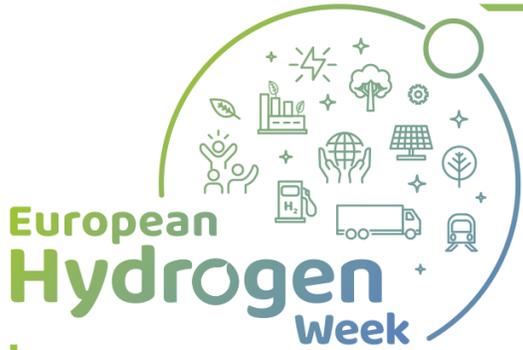


PDA project progress

Supported regions



- Project delivery groups have successfully been established in all regions and started work
- Definition of technology system and context for the business case in most regions finalised
- Ongoing: Research and validation of information to establish the business case
- Next steps: Establish the business case, identify roles and responsibilities, financing scheme and risk mitigation strategies



PDA project progress

Observer network

Application process

Commitment of 35 regions to participate in the ON

Kick off meeting

1st survey to define focus of support & processes

Technology and funding web-seminars

Supplier database

Peer review sessions

- Kick-off meeting (03.09.20)
- Set-up of a supplier database with information on technologies and market availabilities (update ongoing)
- First observer network seminar realised with focus on a technology review on HDV and buses (15.10.20)
- Second observer network seminar realised with focus on a peer review of existing project ideas (17.11.20)
- Third observer network seminar planned with focus on financing schemes (16.12.)

Challenges and lessons learned

Focus of regional interest



All PDA projects are part of a broader regional strategy (innovation / industry, climate/sustainability).



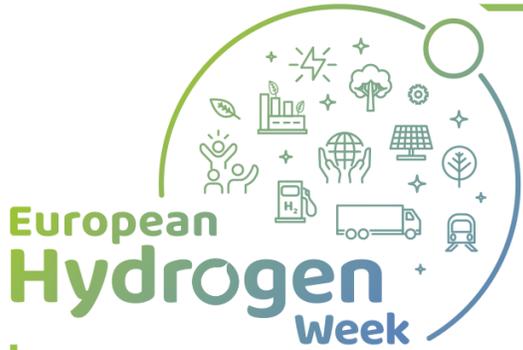
A strategic approach of many regions is to scale up demand by using hydrogen in HDV applications and regional sector-coupling (transport, heating, industry).



A lack of market availability of vehicles and expected market demand lead to an interest for retrofitting activities in many regions.



Regions aim to invest in regional green hydrogen capacities with the challenge to compete with cheaper grey or imported hydrogen.



Exploitation Plan / Expected Impact

Exploitation

The established regional delivery groups will be qualified to apply for demonstration project, having

- agreed on and detailed the technology system to implement,
- understood cost structures, risks, and benefits,
- defined roles and responsibilities,
- developed action plans and timelines,
- related the project activities to regional strategies and other activities.

Impact

The expected impact of the PDA will be a leverage effect to other regions, by

- increasing awareness and understanding the potential of FCH technologies for the regional energy transition and economy,
- learning about different regional FCH project approaches (“blueprints”),
- providing feedback to industry on needs, expectations, and use cases for FCH technologies in the regions.