

WEBINAR

What do Europeans know about hydrogen technologies? State of play of public awareness

7 July 2023, 9:30 – 12:00 am CEST

Alberto J. Garcia Hombrados

Project Officer - Clean Hydrogen Joint Undertaking





To gain a better understanding and knowledge of public opinion on fuel cells and hydrogen technologies

- Provide insights on the state of play of public opinion (survey undertaken in 2022)
- Present a new JU initiative to increase public awareness and acceptance
- Discuss the current status and potential action plans to raise public awareness, acceptance, and uptake of hydrogen technologies

Clean Hydrogen JU webinar

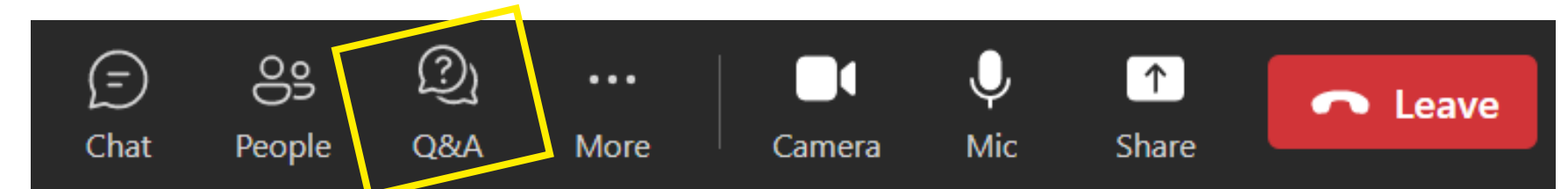
State of play of public awareness – Agenda & Info.



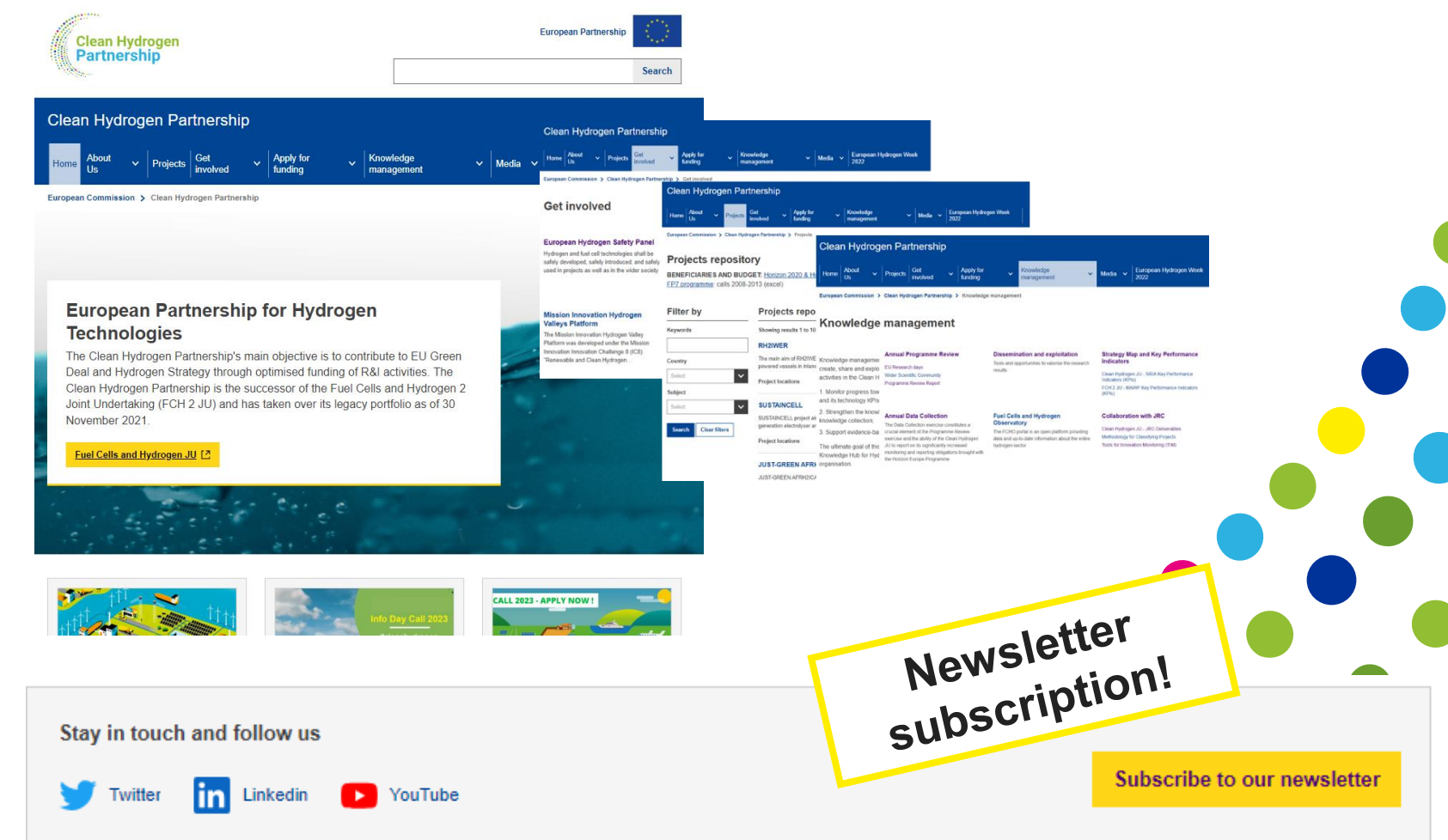
AGENDA

09:30 – 09:45 am	Welcome and introduction
09:45 – 10:15 am	Public opinion survey Methodology – Results – Key findings
10:15 – 10:25 am	Q&A Exchange with the audience on the public opinion survey
10:25 – 10:45 am	HYdrogen Public Opinion and accePtance (HYPOP) Project presentation
10:45 – 11:45 am	Panel discussion Discussion on current status and potential action plans to increase public awareness, acceptance and uptake of hydrogen technologies
11:45 – 12:00 pm	Closing Clean Hydrogen Partnership

Questions from the participants?
Type your questions using the Q&A app

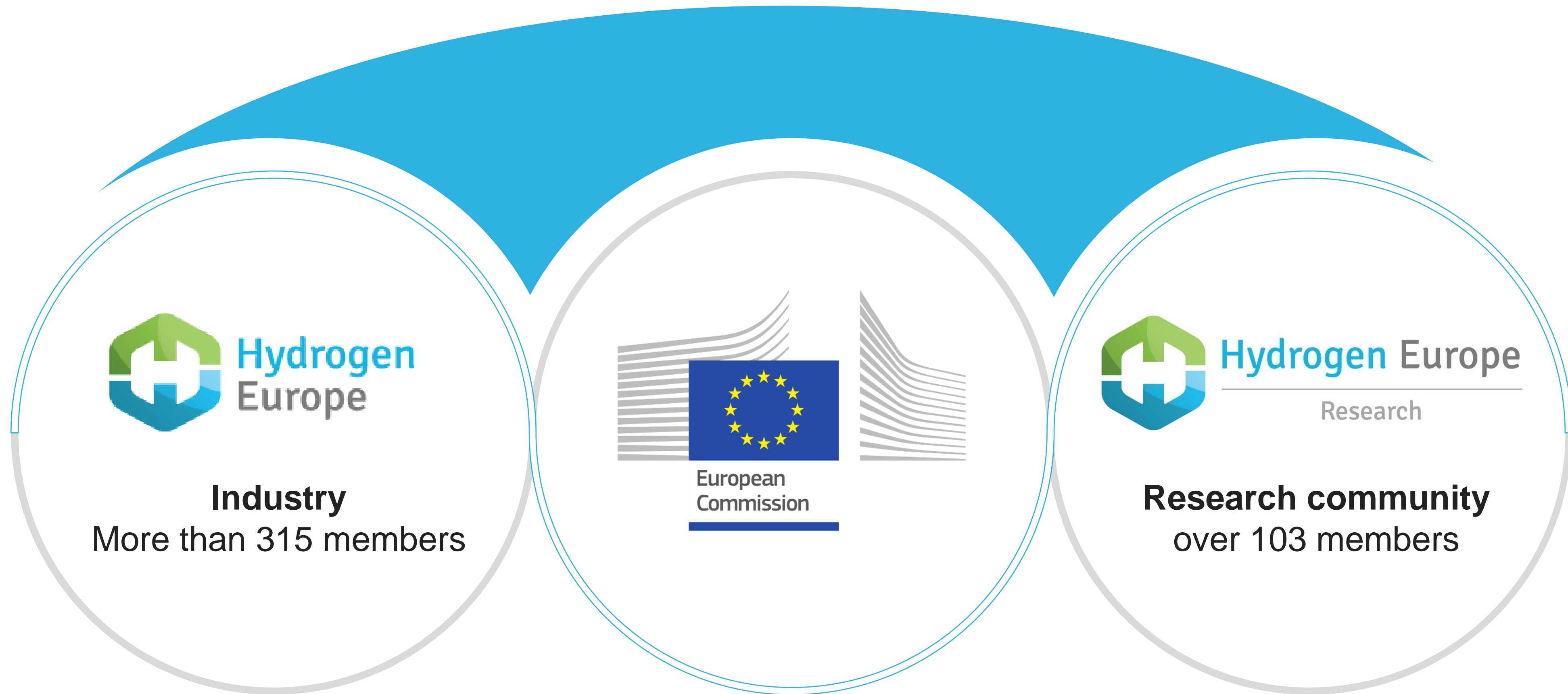


Presentations and recording will be publicly available on the Clean Hydrogen JU website



Clean Hydrogen Partnership Overview

EU Institutional Public-Private Partnership (IPPP)



Mission: To facilitate the transition to a greener EU society through the development of hydrogen technologies

Budget: 1 billion EURO from Horizon Europe*

* additional 200 million EURO for Hydrogen valleys (under REPowerEU plan)

General



Support the implementation of the Commission's **Hydrogen Strategy**



Stimulate **research and innovation on clean hydrogen** production, distribution, storage and end use applications



Strengthen the **competitiveness of the EU clean hydrogen value chain**



Contribute to the EU ambitious **2030 and 2050 climate ambition**

Specific



Improve the **cost-effectiveness, efficiency, reliability,** quantity and quality of clean hydrogen solutions across **entire value chain**



Strengthen the **knowledge/capacity of scientific and industrial actors** along the Union's hydrogen value chain while supporting the **uptake of skills**



Demonstrations of clean hydrogen solutions with a view to **local, regional and Union-wide deployment,** aiming to involve stakeholders in all Member States and across **entire value chain**



Increase **public and private awareness, acceptance** and uptake of clean hydrogen solutions



Clean Hydrogen Partnership Strategic Research and Innovation Agenda (SRIA) 2021-2027

- Strategic document identifying key **priorities** and the essential **technologies and innovations** required to achieve the objectives of the JU

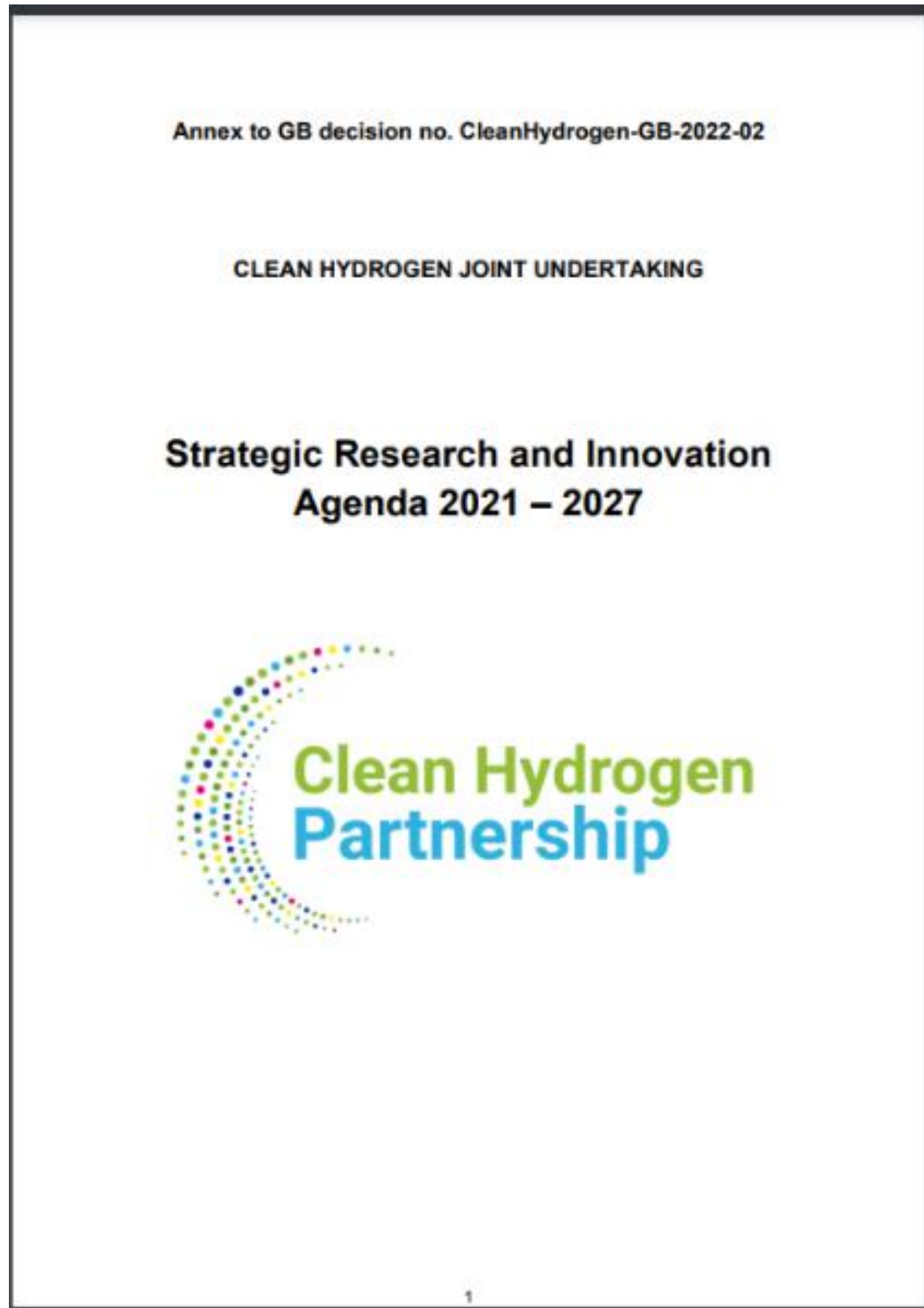
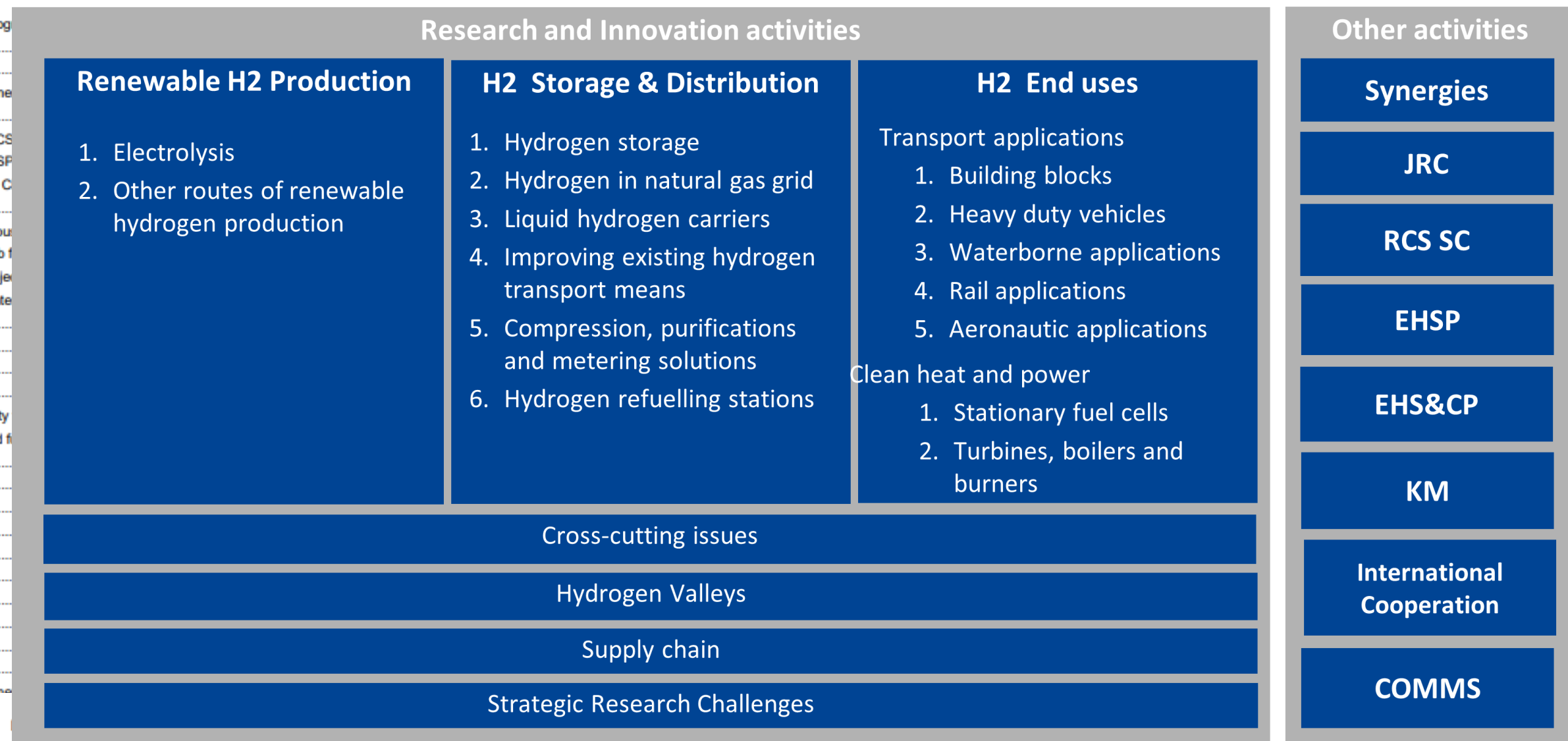
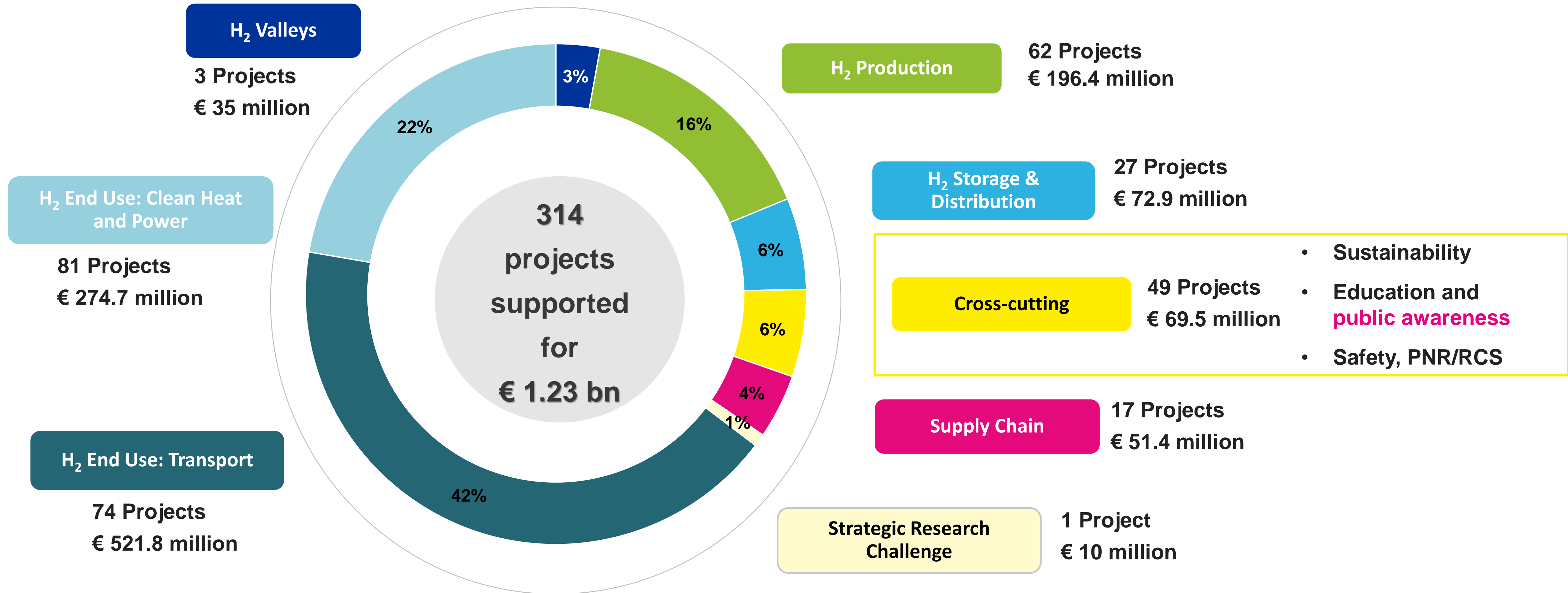


Table of contents

Executive summary.....	11
1. Introduction.....	17
1.1. The European Green Deal and the climate neutrality ambition of Europe.....	17
1.1.1. The role of hydrogen technologies	18
1.1.2. The EU hydrogen strategy for a climate-neutral Europe	20
1.2. The R&I support of hydrogen activities of the European Union	23
2. Clean Hydrogen.....	
2.1. Mission and vision.....	4.1. Interface with EU policies and other programmes.....
2.2. Objectives of the Clean Hydrogen Partnership.....	4.1.1. Need to reinforce synergies.....
3. Research and Innovation.....	4.1.2. Toolbox to generate funding synergies.....
3.1. Structure of the Clean Hydrogen Partnership.....	4.1.3. Cooperation mechanisms to deliver synergies.....
3.2. Renewable Hydrogen.....	4.2. Cooperation with JRC.....
3.2.1. Electrolysis.....	4.3. Regulations, Codes and Standards (RCS).....
3.2.2. Other routes of production.....	4.4. European Hydrogen Safety Panel (EHSP).....
3.3. Hydrogen storage.....	4.5. European Hydrogen Sustainability and Security.....
3.3.1. Hydrogen storage in the gas grid.....	4.6. Knowledge management.....
3.3.2. Hydrogen in transport.....	4.6.1. (Current) Knowledge activities in previous programmes.....
3.3.3. Liquid Hydrogen.....	4.6.2. Clean Hydrogen as the Knowledge Hub for Europe.....
3.3.4. Improving existing hydrogen transport means.....	4.6.3. Dissemination & Exploitation of the project.....
3.3.5. Compression.....	4.7. The role of small and medium-sized enterprises.....
3.3.6. Hydrogen refuelling stations.....	4.8. International cooperation strategy
3.4. Hydrogen end uses.....	4.9. Communication.....
3.4.1. Building Blocks.....	5. Programme implementation.....
3.4.2. Heavy-duty vehicles.....	5.1. Budget.....
3.4.3. Waterborne applications.....	5.2. Conditions for participation and eligibility.....
3.4.4. Rail applications.....	5.3. Types of action: specific provisions and funding.....
3.4.5. Aeronautics.....	5.4. Rules for participation.....
3.5. Hydrogen end uses.....	6. Governance.....
3.5.1. Stationary Fuel Cells.....	6.1. Main actors: roles and representation
3.5.2. Turbines, boilers and burners.....	6.2. Governing Board.....
3.6. Cross-cutting issues.....	6.3. Executive Director.....
3.6.1. Sustainability.....	6.3.1. Programme Office.....
3.6.2. Education and training.....	6.4. States Representatives Group.....
3.6.3. Safety, Pre-Norms.....	6.5. Stakeholders' Group.....
3.7. Hydrogen valleys.....	7. Programme monitoring and reporting.....
3.8. Supply chain.....	8. Modern Administration.....
3.9. Strategic Research and Innovation.....	8.1. Objective of human resource management.....
4. Additional acts.....	8.2. Main principles of the human resource management.....
	8.3. Staff establishment plan and sound financial management.....
	8.4. Sound financial management.....
	8.4.1. Assurance and audit
	8.4.2. Financial management.....
	8.4.3. Internal control and risk management.....
	8.5. Fraud risk management.....
	8.6. Document Management, digital information management.....
	8.6.1. Information Management.....
	8.6.2. Digital Transformation.....
	8.6.3. Sound environmental management.....
	8.7. Annex 1 – Programme Level Key Performance Indicators for the Clean Hydrogen for Europe Joint Undertaking.....
	Annex 2 - State-of-the-art and future targets – Renewable Hydrogen production
	Annex 3 - State-of-the-art and future targets – Hydrogen storage and distribution
	Annex 4 - State-of-the-art and future targets – Hydrogen end use: transport applications
	Annex 5 - State-of-the-art and future targets – Hydrogen end use: stationary applications.....
	Annex 6 - State-of-the-art and future targets – Cross-cutting issues.....
	Annex 7 – Common R&I Roadmaps



Universal successor of the Fuel Cells and Hydrogen 2 Joint Undertaking (FCH 2 JU)



Break down according to the Clean Hydrogen JU Programme structure

(It excludes the results of call 2022-2)

Clean Hydrogen Partnership Public awareness – a project example

HYACINTH Project: HYdrogen ACceptance IN the Transition pHase

Biggest exercise ever on social research around FCH in Europe !

Project Information

HYACINTH
Grant agreement ID: 621228

Closed project

Start date
1 September 2014


End date
31 May 2017

Funded under
Specific Programme "Cooperation": Joint Technology Initiatives

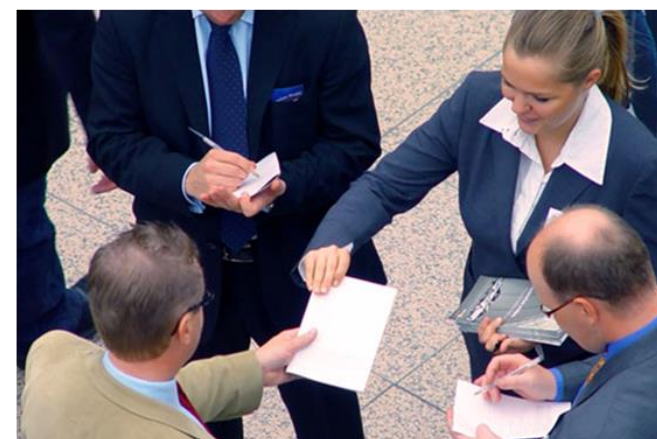
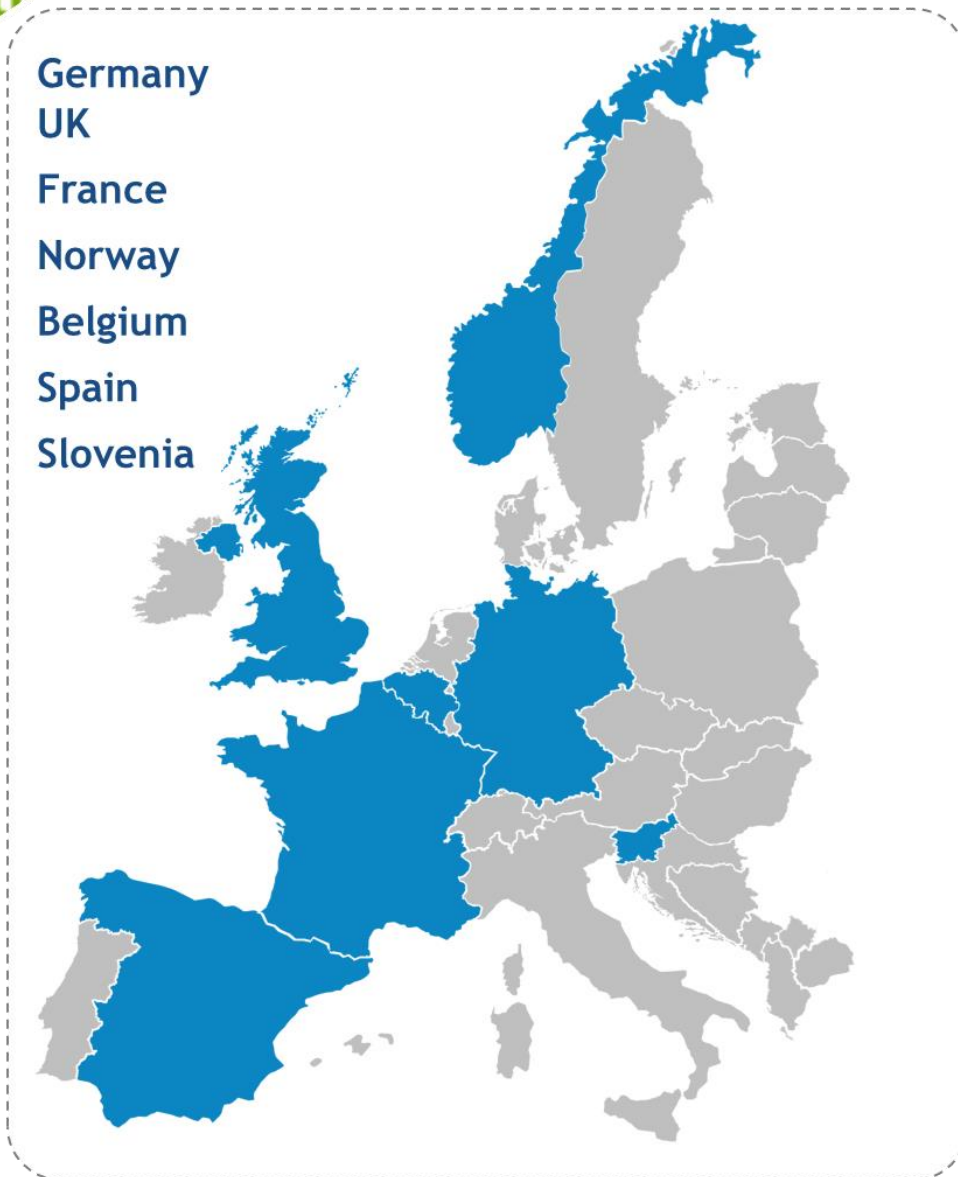
Total cost
€ 999 383,00

EU contribution
€ 661 584,00

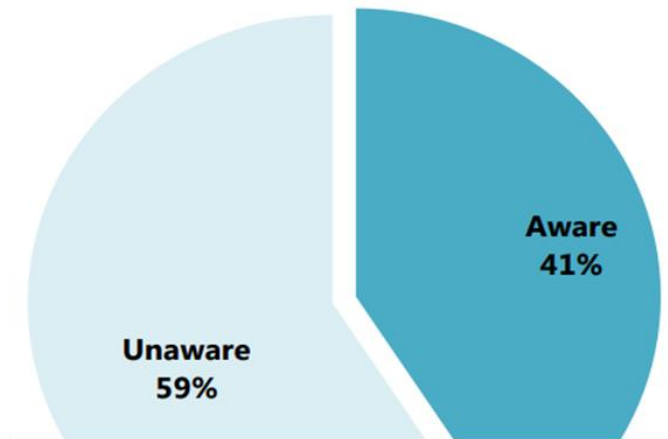
Coordinated by
CENTRO NACIONAL DE EXPERIMENTACION DE TECNOLOGIAS DE HIDROGENO Y PILAS DE COMBUSTIBLE CONSORCIO
Spain




Understand awareness and acceptance across Europe
Identify the main drivers of social awareness and acceptance -> recommendations



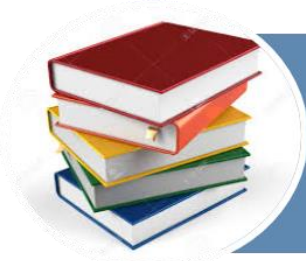
General public survey
7000 participants
7 European countries



FCH stakeholders survey
300+ participants
5 European countries



FCH stakeholders interviews
100+ participants
5 European countries



Study 1. Public awareness and acceptance
Study 2. Stakeholder acceptance

Publicly available!

Clean Hydrogen Partnership Public awareness – Public opinion survey



To analyse the public opinion on the potential for hydrogen technologies in industry, mobility and energy sectors

- To understand perceptions on the use of FCH tech.
 - Overall awareness, acceptance and uptake of FCH tech.
 - Perceptions on the safety and sustainability of FCH tech.
- To create a benchmark metric (baseline) for tracking changing perceptions in Europe over time
- To provide a basis for further analysis and recommendations on how to raise awareness and build confidence for further use of FCH tech. in the public



Ref. Ares(2020)7667936 - 16/12/2020

ANNEX to GB decision no FCH-GB-2020-11

FUEL CELLS and HYDROGEN 2 JOINT UNDERTAKING
(FCH 2 JU)

2021
ANNUAL WORK PLAN and BUDGET

Annex to GB decision FCH-GB-2021-04

An official website of the European Union How do you know? ▾

 Calls for tenders from the European Institutions

Europa > TED home > eTendering home > Call for tenders' main page > Data

TED TED SIMAP TED eNotices TED eTendering

My account
Log in

Call for tenders
Search for calls for tenders
Search for a document
FAQ

Call for tenders' details

Title: Public Opinion Survey
Contracting authority: Clean Hydrogen Joint Undertaking (CHJU)
TED publication date: 16/07/2021
Time limit for receipt of tenders: 01/10/2021 Status: Closed

Data Document Library Questions & answers

Information

Tender reference number	FCH / OP / Contract / 307
Title	Public Opinion Survey
Description	The subject matter of the contract is the provision of a public opinion survey to gain insights into perceptions on the use of fuel cells and hydrogen (FCH) technologies.
Contract type	Services
Procedure type	Open procedure
Status	Closed
Published on TED	
Submission Method	Electronic
Information about a public contract, a framework agreement or a dynamic purchasing system (DPS)	Public contract
Address of the buyer profile: (URL)	fch.europa.eu/page/procurements
Award method	Best price-quality ratio
Estimated total value	450,000.00 EUR
Estimated value	450,000.00 EUR
Main CPV	79320000
NUTS	BE

 EU solidarity with Ukraine

 **prozorro+**
Ukrainian public procurement platform

WEBINAR

AGENDA

09:30 – 09:45 am	Welcome and introduction
09:45 – 10:15 am	Public opinion survey Methodology – Results – Key findings
10:15 – 10:25 am	Q&A Exchange with the audience on the public opinion survey
10:25 – 10:45 am	HYdrogen Public Opinion and accePtance (HYPOP) Project presentation
10:45 – 11:45 am	Panel discussion Discussion on current status and potential action plans to increase public awareness, acceptance and uptake of hydrogen technologies
11:45 – 12:00 pm	Closing Clean Hydrogen Partnership



WEBINAR

AGENDA

09:30 – 09:45 am	Welcome and introduction
09:45 – 10:15 am	Public opinion survey Methodology – Results – Key findings
10:15 – 10:25 am	Q&A Exchange with the audience on the public opinion survey
10:25 – 10:45 am	HYdrogen Public Opinion and accePtance (HYPOP) Project presentation
10:45 – 11:45 am	Panel discussion Discussion on current status and potential action plans to increase public awareness, acceptance and uptake of hydrogen technologies
11:45 – 12:00 pm	Closing Clean Hydrogen Partnership



WEBINAR

AGENDA

09:30 – 09:45 am	Welcome and introduction
09:45 – 10:15 am	Public opinion survey Methodology – Results – Key findings
10:15 – 10:25 am	Q&A Exchange with the audience on the public opinion survey
10:25 – 10:45 am	HYdrogen Public Opinion and accePtance (HYPOP) Project presentation
10:45 – 11:45 am	Panel discussion Discussion on current status and potential action plans to increase public awareness, acceptance and uptake of hydrogen technologies
11:45 – 12:00 pm	Closing Clean Hydrogen Partnership



Clean Hydrogen JU webinar Panel discussion/ Q&A session

Helene Chraye

Head of Clean Energy Transition Unit – DG Research and Innovation, European Commission

Michael Diderich

Innovation, Director at Hydrogen Europe

Luigi Crema

President Hydrogen Europe Research

Pascal Chelala

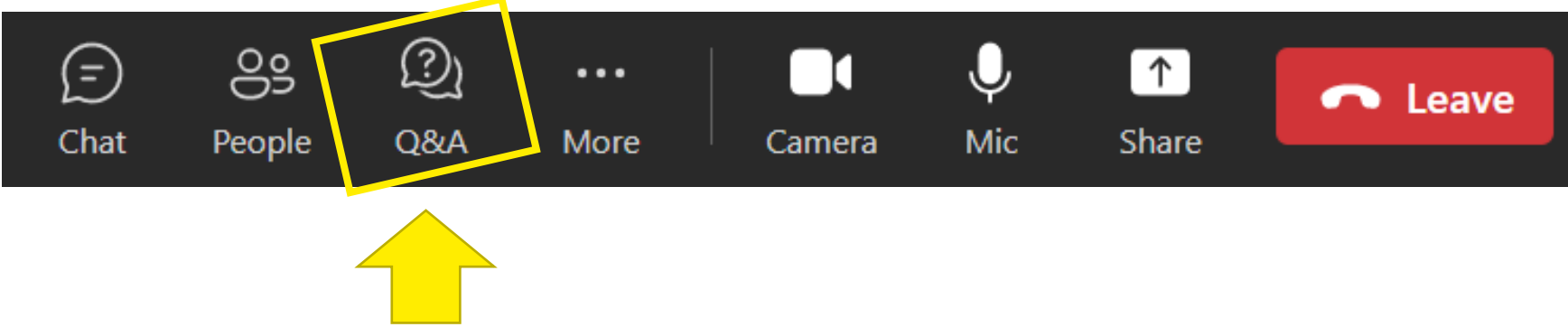
Managing Director European Region, Gallup International GmbH

Ilaria Schiavi

Parco Scientifico Tecnologico Per L'Ambiente - Environment Park Torino SPA. Project coordinator HyPOP



Type your questions using the Q&A app!



WEBINAR

AGENDA

09:30 – 09:45 am	Welcome and introduction
09:45 – 10:15 am	Public opinion survey Methodology – Results – Key findings
10:15 – 10:25 am	Q&A Exchange with the audience on the public opinion survey
10:25 – 10:45 am	HYdrogen Public Opinion and accePtance (HYPOP) Project presentation
10:45 – 11:45 am	Panel discussion Discussion on current status and potential action plans to increase public awareness, acceptance and uptake of hydrogen technologies
11:45 – 12:00 pm	Closing Clean Hydrogen Partnership

Executive Director ad Interim



Mirela Atanasiu is the Executive Director ad interim of the Clean Hydrogen Partnership, taking over from Bart Biebuyck whose mandate finished on 15.05.2023.

She is also the Head of Unit of Operations and Communication since 2016.

Previously, for more than 12 years she was a Senior Project Manager and Research Programme Officer in the Fuel Cells and Hydrogen Joint Undertaking (FCH JU) and the European Commission (Directorate Research and Innovation/Energy), following on a background experience as researcher in the Energy sector in Romania.

She holds an M.Sc. in Chemical Engineering/Materials Science and an M.Sc. in Economics/Cybernetics and Economic Analysis.

Thank you/ Keep in touch

WEBINAR

What do Europeans know about
hydrogen technologies?
State of play of public awareness

7 July 2023, 9:30 – 12:00 am CEST

For further information

<https://www.clean-hydrogen.europa.eu/>

