



# Call for Interest Webinar

November 7<sup>th</sup>, 2024



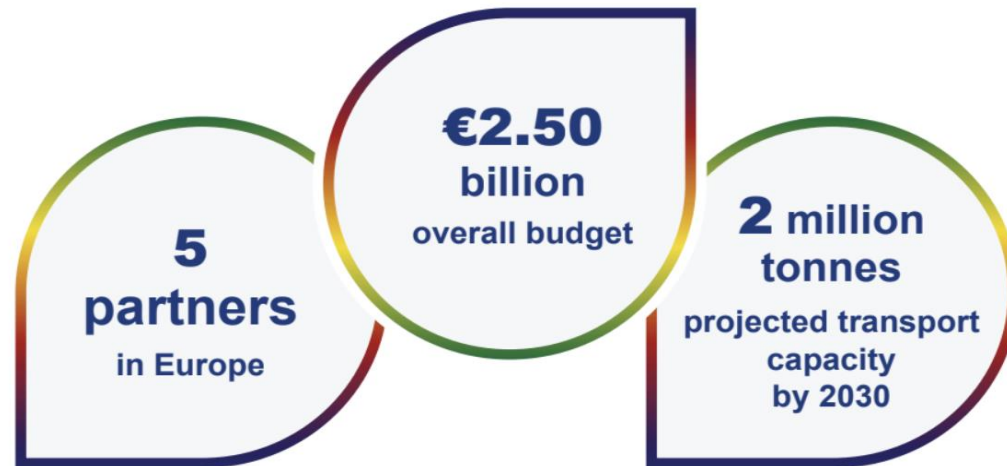


OGE

REN



TEREGA



December 9, 2022 at the Euromed Summit in Alicante

# Corridor at a glance

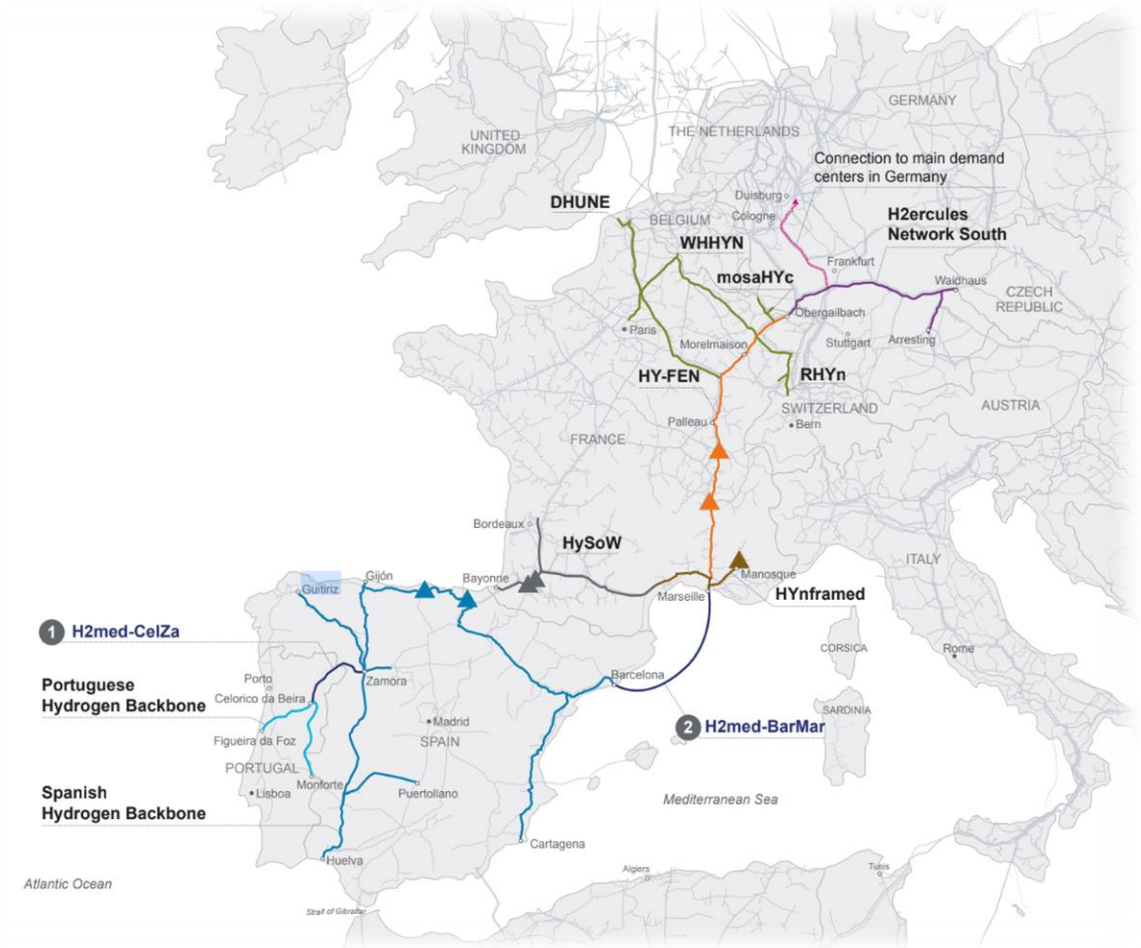
**~5,500 km of pipelines of which 35% are repurposed natural gas pipelines**

**2 MTPA (million tonnes per annum) of transmission capacity**

**3 international connections: CelZa, BarMar and Medelsheim**

**Connecting national hydrogen backbones in Europe**

**10% of expected H2 consumption in Europe by 2030**



# H2med potential and benefits

## Energy, Industrial and Environmental



Transport 10% of the expected hydrogen consumption in Europe by 2030



Supply Europe with carbon-free hydrogen produced at competitive costs



Accelerate Europe's decarbonization roadmap and net-zero objectives



Ensure the flexibility and resilience of the energy network through access to underground hydrogen storage capacities



Contribute to European and national objectives for the development of the hydrogen sector



Enable the development of hydrogen valleys and high-value European industry competitiveness



Facilitate the creation of decarbonization ecosystems and value chain development

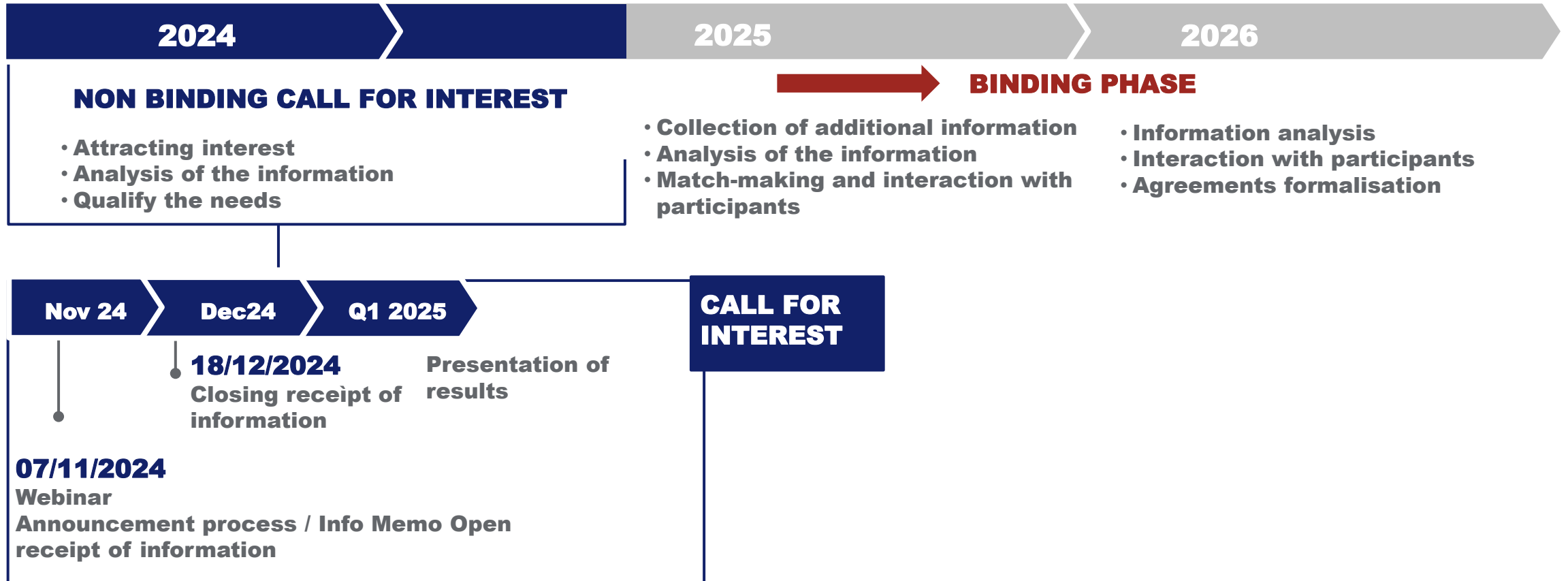
# CelZa and BarMar

	CelZa	BarMar
<b>Pipeline</b>		
Length	248 km	450 km
Diameter	28"	28" or 42"
Maximum depth	/	2,600 m
Operating pressure	up to 100 bar	Up to 210 bar
<b>Compressor station</b>		
Power	24.6 MW	Up to 140 MW
Maximum transmission capacity	0.75 Mt	2 Mt
Budget	≈ €350 million	≈ €2,135 million



Alternative maritime route under consideration

# Overall commercial process

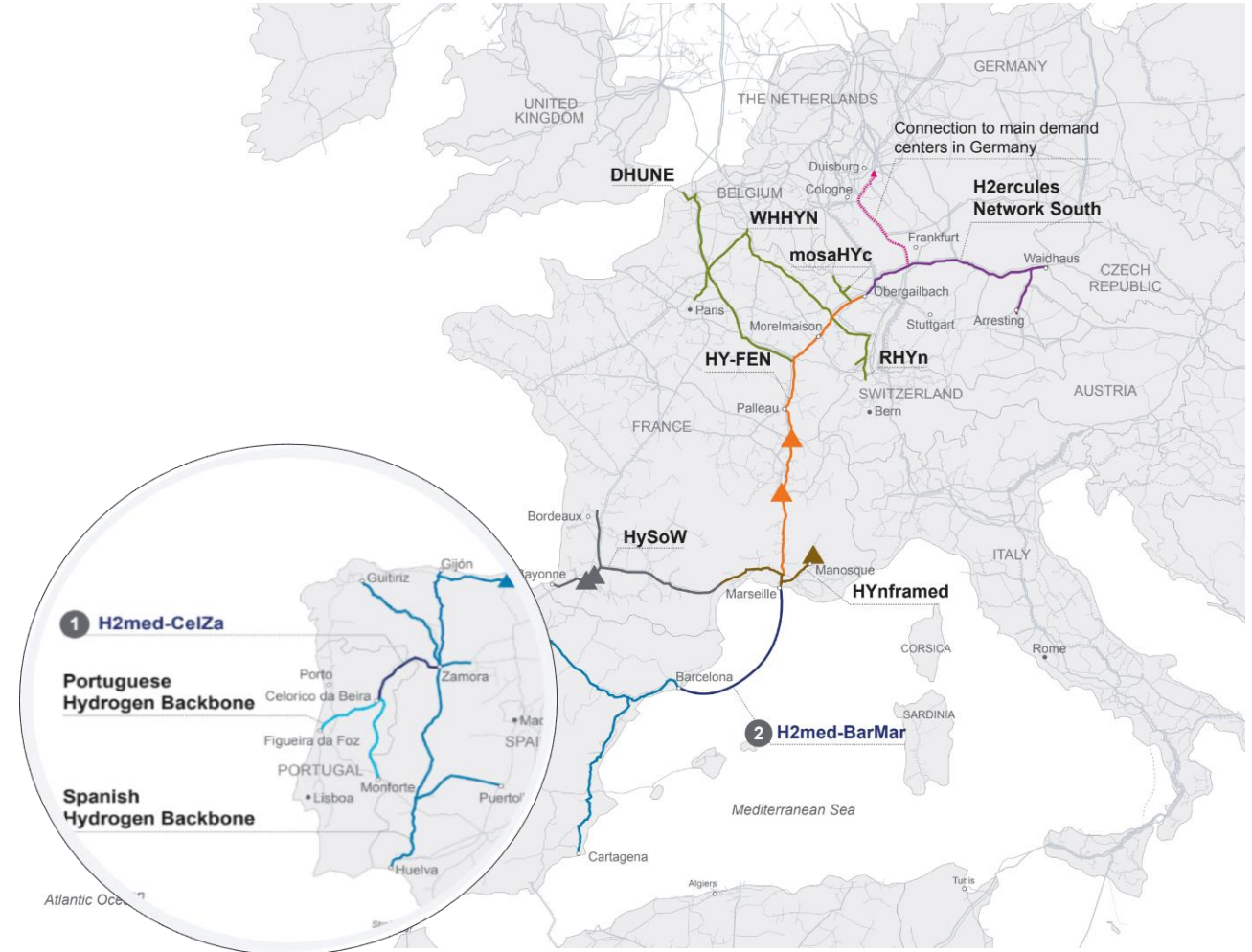


# The corridor, an example of transnational cooperation

# Iberian peninsula: Portugal

an area conducive to hydrogen  
production at competitive costs

All consumers, producers and  
traders are invited to participate

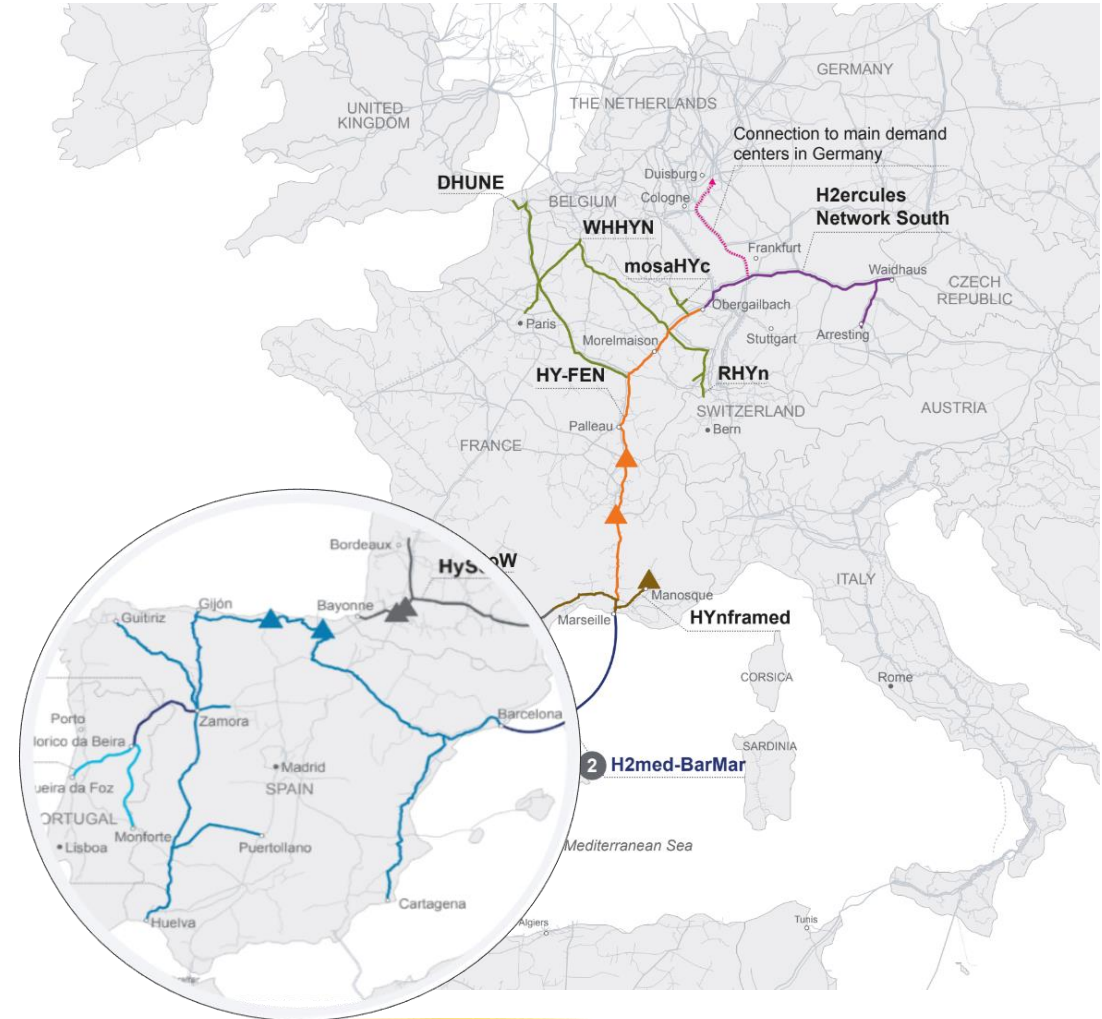




# Iberian peninsula: Spain

an area conducive to hydrogen  
production at competitive costs

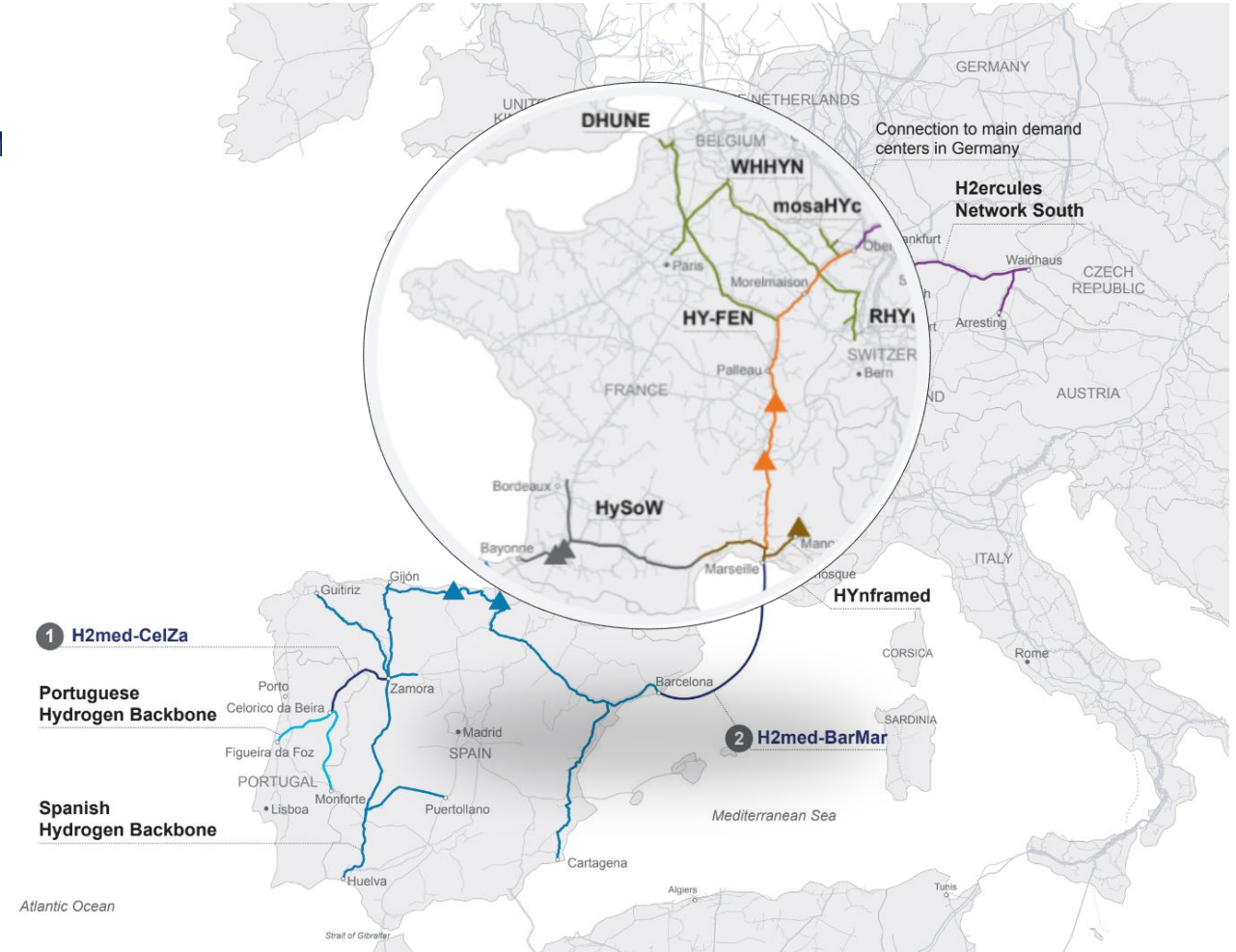
All consumers, producers and  
traders are invited to participate.  
Special focus in the production for  
exportation of hydrogen.



# France

Hydrogen, a lever for the decarbonization and reindustrialization of territories

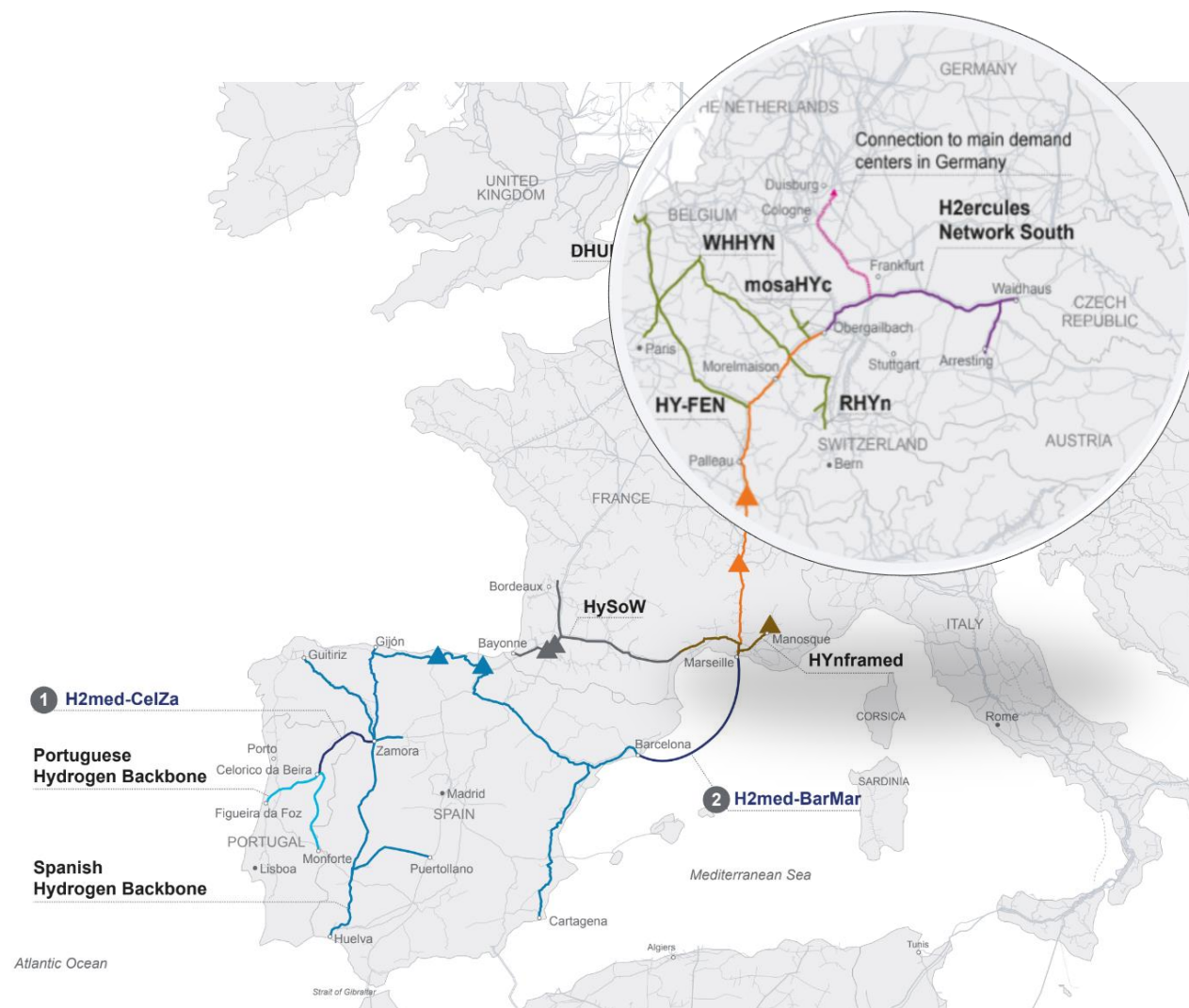
All consumers, producers and traders are invited to participate. All types of answers will be needed to assess the sizing of HY-FEN but also connection points with hubs in France.



# Germany

## German industrial transformation and consumption needs

*All consumers and traders are invited to participate who consider to supply themselves via H2med or to deliver consumers via H2med.*  
**Special focus will consist in the assessment of importation and consumption of hydrogen.**



# Why a Call for Interest process?

To confirm, in a non-binding process, the **needs of H2 infrastructure** from actors along the hydrogen value chain and its **interest in H2med**

Boost the **development of the needed hydrogen network to achieve Europe's goals**

Dynamize the H2 market by **connecting supply and demand**




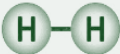
Ensure an **open, transparent, and non-discriminatory process**

**A process in coordination with the key stakeholders of the sector to...**

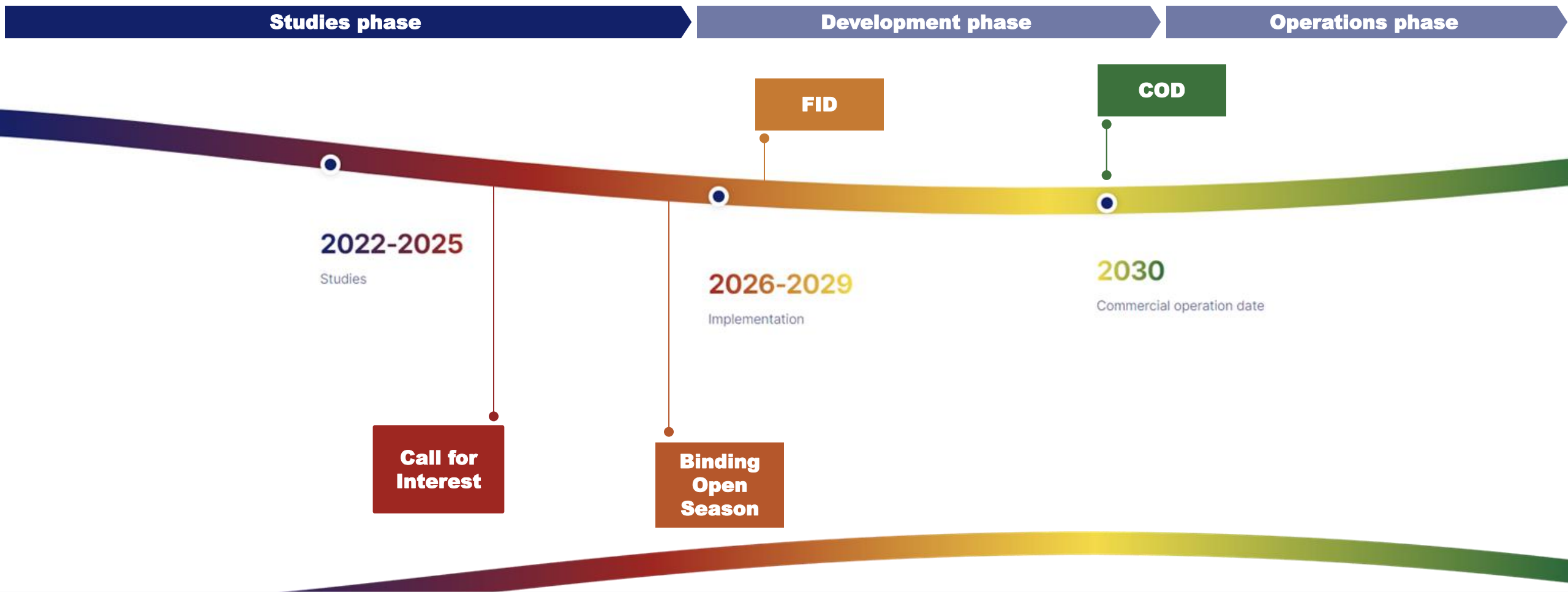
**... contextualise hydrogen supply and demand and obtain direct market information to qualify the needs from now on to 2050**

*+ a matchmaking optional functionality*

# What information will be requested?

Categories	Information to be analysed
 <b>User characterisation</b>	<ul style="list-style-type: none"><li>Fundamental aspects such as <b>positioning in the hydrogen market value chain (producer, consumer, trader / shipper)</b> and key contact details for each project or company will be identified.</li></ul>
 <b>Producer characterisation</b>	<ul style="list-style-type: none"><li>The <b>location and capacity</b> of the plants, <b>production pathway</b> and other aspects such as the <b>start date of operations or maturity of the project</b> are some of the points to consider when characterising the producer.</li><li><b>The intent to book capacity on the H2med infrastructure</b> will be analysed, with only aggregated booking capacity data for each interconnection point being shared between TSOs.</li></ul>
 <b>Consumer characterisation</b>	<ul style="list-style-type: none"><li><b>The type and sector of use</b> of hydrogen, <b>consumption volume, location of the plants</b> as well as the <b>start date or contractual period</b> of use of the infrastructure and prior <b>identification of hydrogen suppliers</b> are some of the points to consider.</li></ul>
 <b>Trader characterisation</b>	<ul style="list-style-type: none"><li>The type of <b>activity to be carried out</b>, the <b>volume of agreements made</b> as well as the <b>contractual period</b> for the use of the infrastructure are some of the variables to be considered</li></ul>

# H2med timeline



# Technical aspects

# How to participate?

**Call for  
interest**



Visit the H2med **website** to access the web form: [h2medproject.com](https://h2medproject.com) and register on the platform dedicated to the CFI.

**The web form will be available from November 7<sup>th</sup> until December 18<sup>th</sup>, 2024.**

We would appreciate if you could provide us the corresponding information regarding your needs or expectations for renewable hydrogen consumption, production and/or commercialization.

The **webinar** and the **presentation will be available after the Webinar** on the H2med project website.



# Registration Request - New users

- Open the H2med registration form via [www.h2-digital.com/h2med/join](http://www.h2-digital.com/h2med/join)
- To register as a new user, complete the registration form and provide details about the project you want to register.
  - *Key project fields:* Project Name, Project Address and Commissioning Date.
  - *Key user information:* Name, Company and Contact details.
- To participate in the Match-Making process, please select the tick box: *“I’d like to see the above-mentioned data and my contact details visible on H2med platform.”*
- **Submit the form to complete the registration process.** An email confirming receipt of the registration request will be sent.

**Register now for H2med!**  
You're just a few clicks away from being part of Europe's first major green hydrogen corridor.

Describe your H2 project and add details to your project profile.

Project Name \* Go Live Date

Project Address \* How are you interested in H2med today

Project Description

Your website Your LinkedIn

Project image: Project Logo:

**Fill in contact information of the representative for your project**

First Name \* Last Name \*

E-mail \*

Company/Organisation \* Company Type

Position Phone Number

Company Address

Additional information to us

I'd like to see the above-mentioned data and my contact details visible on H2med platform.

By submitting this registration, I agree to the terms and conditions of H2 Digital which can be found on [https://www.h2-digital.com/terms.\\*](https://www.h2-digital.com/terms.*)

I'm not a Robot \*

SUBMIT >>

# Activate new user account

- Once the account has been verified by the relevant TSO, the user receives an email indicating their new credentials to register on the platform: [www.h2-digital.com/h2med](http://www.h2-digital.com/h2med).
- Upon activating the account, the user will need to change the default password.
- If you encounter any issues while logging in, you can contact the technical support team at [contact@h2-digital.com](mailto:contact@h2-digital.com).

Welcome to H2med – You are ready to go!



<H2 Digital> <contact@h2-digital.com>  
An contact@h2-digital.com



Mo 23.09.2024 11:10

Dear user,

Congratulations! We are delighted to inform you that your account has been successfully activated on H2 Digital, the digitalization platform for the developing hydrogen ecosystem. You can now log in and start exploring the exciting opportunities that await you.

To access your account, please follow these simple steps:

1. Visit our website at [www.h2-digital.com/h2med](http://www.h2-digital.com/h2med)
2. Enter your credentials in the designated fields:
  - o Username
  - o Password
3. Set a new password which will be used for your personal login to H2med
4. Click on the "Log In" button to access your personalized platform view

Should you encounter any issues while logging in or have any questions, our support team is ready to assist you. Please reach out to us at [contact@h2-digital.com](mailto:contact@h2-digital.com), and we will be happy to help.

Thank you for joining us in shaping the energy system of the future!

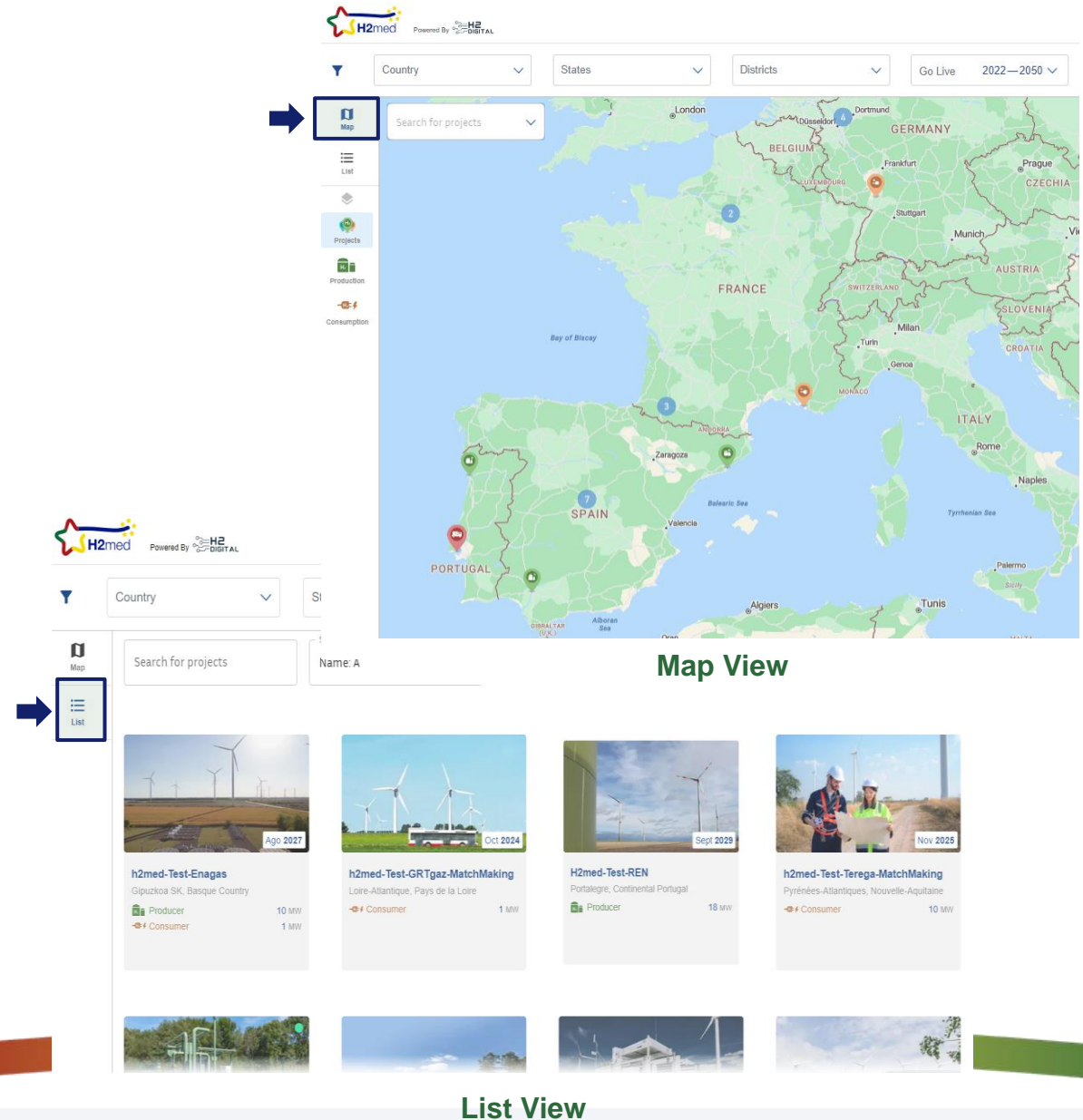
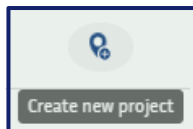
Best regards

H2med Team

Customer Support

# Platform Navigation

- Once the account is activated, the user will be able to see the data of the rest of the registered projects that have enabled the “Match-Making” function (*optional*).
- Projects can be viewed using a **map view**, or a **list view**, by selecting the mode in the left panel of the platform.
- Views have filters to support easier navigation through the platform.
- Projects which you have editing rights over, will appear marked with a star. ★
- After the user is registered in the platform, **new projects developed by the same company can be added directly within the portal** by selecting “Create new project” at the top right of the website.



The screenshot displays the H2med platform interface, which is powered by H2 Digital. The top navigation bar includes filters for Country, States, and Districts, along with a 'Go Live' button and a date range selector set to '2022—2020'. The main content area is split into two views: 'Map View' and 'List View'.

**Map View:** This view shows a map of Europe with various countries labeled (e.g., France, Germany, Italy, Spain, Portugal). Numbered markers (1-7) are placed on the map to indicate project locations. A search bar for projects is visible at the top left of the map area.

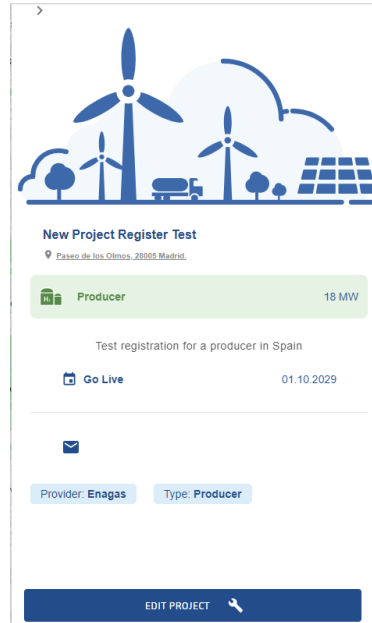
**List View:** This view displays a grid of project cards. Each card includes a thumbnail image, a project name, location, and capacity. The first four cards are:

- h2med-Test-Enagas:** Gipuzkoa SK, Basque Country, 10 MW Producer, 1 MW Consumer (Ago 2027).
- h2med-Test-GRTgaz-MatchMaking:** Loire-Atlantique, Pays de la Loire, 1 MW Consumer (Oct 2024).
- H2med-Test-REN:** Portalegre, Continental Portugal, 18 MW Producer (Sept 2029).
- h2med-Test-Terega-MatchMaking:** Pyrénées-Atlantiques, Nouvelle-Aquitaine, 10 MW Consumer (Nov 2025).

Below these are four more project cards, each with a different thumbnail image. The interface also features a left-hand navigation menu with icons for Map, List, Projects, Production, and Consumption. A 'Create new project' button is highlighted in the top right corner of the interface.

# Access & Edit project data

- From the platform, you can select your project(s) and edit the data associated with it by selecting “Edit Project”. This will take you to the page with all of your project data, **including the Match-Making and Call for Interest data.**
- Once the changes have been introduced, they will be approved by the TSO administrator before being reflected for other users.



Phase name	Start date	Type	Amount
Phase 1	10/10/2024	Producer (per hour)	10 MW

Start date	Type	Amount
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Match-Making Interface

Call for Interest

# Edit Match-Making project data

### Edit Project

#### Project Details

Project Name \*  Project Go Live Date \*

Address \*

Description

Project Image:

Project Logo:

#### Tags

Category  Value

Selected tags

Provider: Enagas

General project data

Tags associated with the project, assigned at registration

#### Region

Country  State  District

#### Project Dimensions for Match-Making Profile

If you participate in Match-Making on the H2med platform, the information below will be visible to all other participants.

Project participates in Match-Making

Start date  Type  Amount

#### Contact Information

Information for the project profile

Contact person

E-mail  Website  LinkedIn

Contact

First Name  Last Name  E-mail \*

Company Name  Company Type  Position

Phone Number  Company Address

Project location, assigned based on project address

Enable other users to view the project by participating in "Match-Making"

Add project phases: Dates, type and dimensions

Project contact details, for Match-Making display

Lead user contact details, for TSO contact

DELETE PROJECT

CLOSE

SAVE

Save changes

# Completing the Call for Interest

- To access the Call for Interest, navigate to the bottom of the project page.
- **The Call for Interest has two stages:**
  - 1. Network booking intention**

Indicate the required interconnection capacity along the H2med corridor and national exit capacities.
  - 2. Questionnaires**

Select the one relevant to your project and complete accordingly (Producer/Consumer/Shipper).
- Once you submit the questionnaire, you will receive a PDF copy with all your answers to the Call for Interest (Part 1 and Part 2).

The screenshot displays the H2med platform interface for completing a Call for Interest. The form is organized into several sections:

- Project Details:** Includes fields for Project Name, Project Go Live Date, Address (Madrid), and Description.
- Region:** Includes fields for Country (Spain), State (Community of Madrid), and Municipality (Madrid).
- Project Dimensions for Match-Making Profile:** Includes a checkbox for 'Project participates in Match-Making' and fields for Start date, Type, and Amount.
- Contact Information:** Includes fields for Contact person, Email, Website, and LinkedIn.

A yellow arrow points to the 'Call for Interest' button at the bottom of the form. Below the form, there are instructions and a selection of questionnaire types: Producer, Consumer, and Trader/Shipper.

# Call for Interest – Part 1

## Network booking intention

**CALL FOR INTEREST BOOKING INTENTION**

To assure that all your information will be evaluated correctly, please consider the following:

- Please choose a type of project capacity booking from the dropdown (e.g. "Producer - Entry capacity to BarMar").
- Please insert a start date to indicate when this capacity should be available. NOTE: capacities are not cumulative per type.
- EXAMPLE: hydrogen production with 10 MW from 2025 and ramp-up of production to a total of 20 MW in 2030.  
--> One entry "Producer" with 10 MW and start date in 2025 + another entry "Producer" with 20 MW and start date in 2030

Type \*

Start date \*

Amount \*

Please enter decimal numbers with a comma, for example 3.5

CLOSE
ADD

To submit the network booking requirements, add the **capacity volumes (tonnes)** and **start date required** through each interconnection point and national exit capacity that will be required for the project.

### Examples: What capacity needs booking?

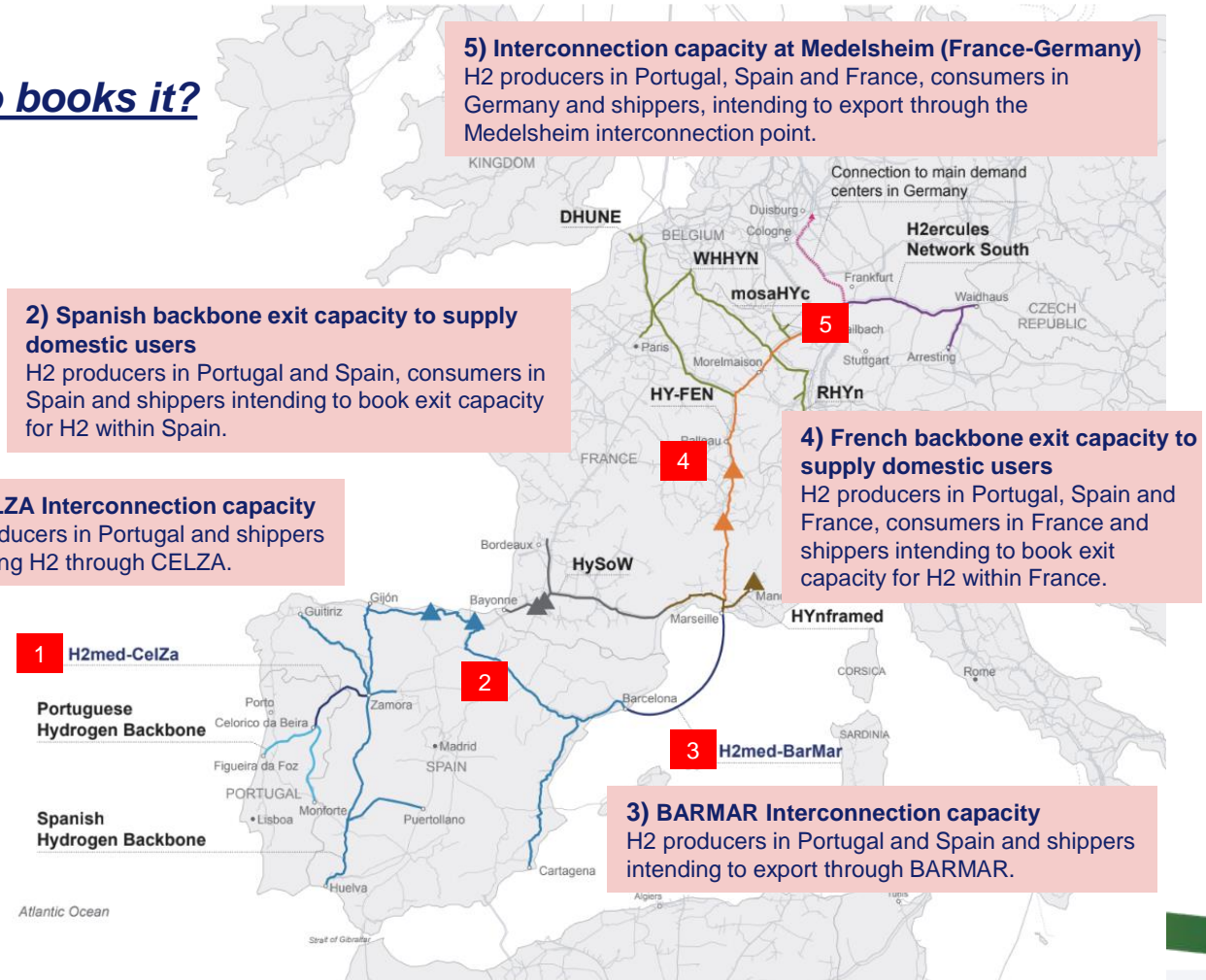
#### A) Portuguese H2 producer, exporting H2 to Germany

Booking interconnection points CELZA (1) + BARMAR (3) + France-Germany IP (5)

#### B) Spanish H2 producer, exporting H2 to France

Booking interconnection point BARMAR (3) + France national exit point (4)

### Who books it?



# Call for Interest – Part 2 Questionnaires

- To access the “Call for Interest” questionnaire, select the one relevant to your project and complete accordingly (Producer/Consumer/Shipper). The questionnaire will open in a new window.
- After completing each relevant questionnaire, you will receive an email with a summary of the data provided.
- You can complete the questionnaire again if you wish to modify any information.

Questionnaire

Producer > Consumer > Trader/Shipper >

H2med

### H2 Producer | H2med Call for Interest

Questionnaire to express interest in participating in the H2med initiative as Hydrogen Producer

Hola, register.test@h2-digital.com. Cuando envíe este formulario, el propietario verá su nombre y dirección de correo electrónico.

\* Obligatorio

Project Status and Permits

1. Where is your hydrogen produced?

Portugal

Spain

France

Germany

Otras

2. Project Progress \*

What is the current stage of your hydrogen project?

Pre-Feasibility



# Contacts



[h2medcfi@enagas.es](mailto:h2medcfi@enagas.es)



[h2ren@ren.pt](mailto:h2ren@ren.pt)



[blg-grt-h2medcfi@grtgaz.com](mailto:blg-grt-h2medcfi@grtgaz.com)



[h2medcfi@terega.fr](mailto:h2medcfi@terega.fr)



[h2-international@oge.net](mailto:h2-international@oge.net)



# Thank you!

