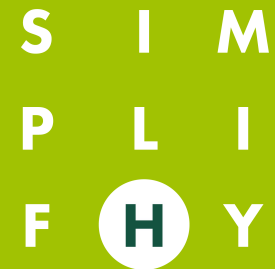




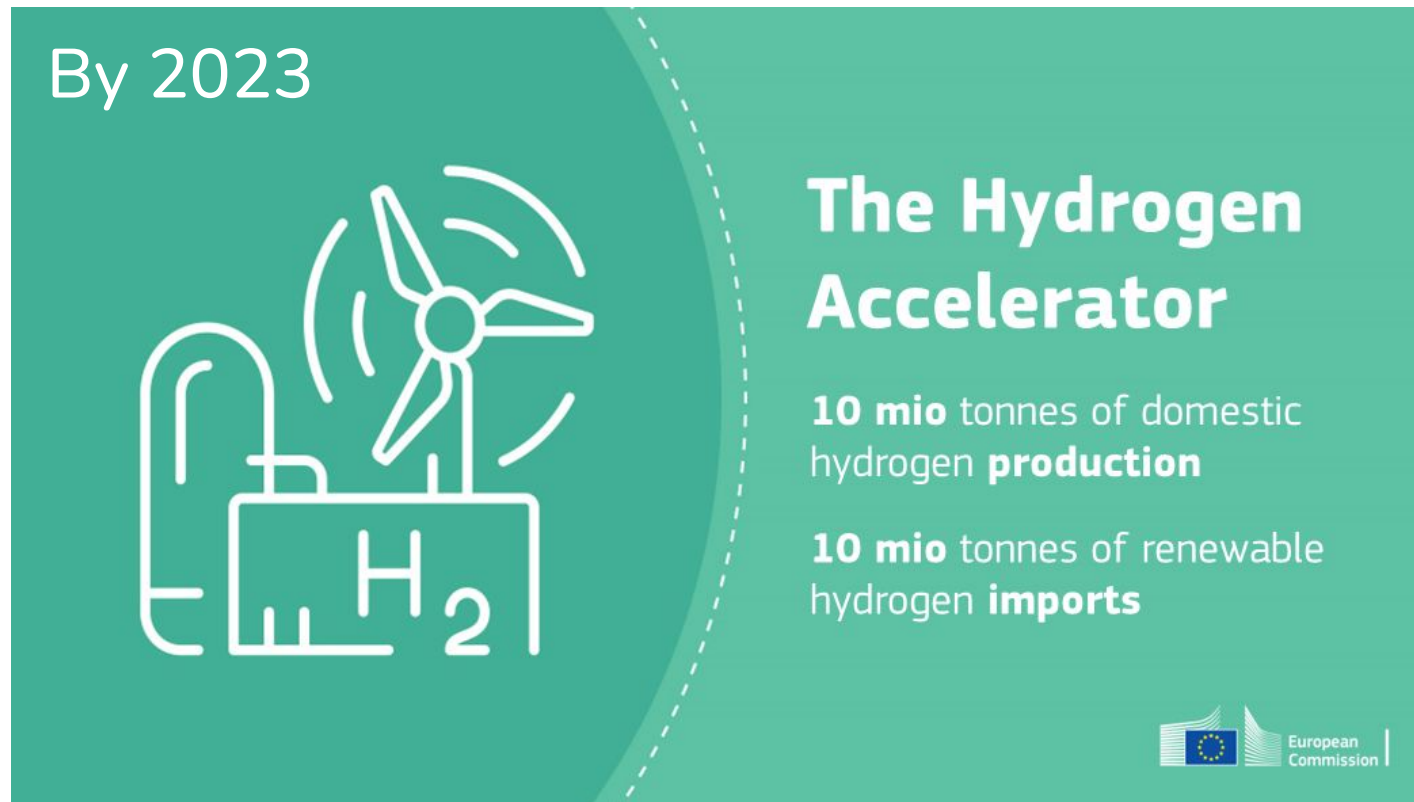
In cooperation with



Fast Track to Innovation | H2 Ready

Did you know?

European Union has a key priority in scaling up the development of **hydrogen infrastructure and facilitating investments in H₂**, supporting production and demand and fostering international cooperation through concrete initiatives already in place:



Source: https://energy.ec.europa.eu/topics/energy-systems-integration/hydrogen_en

- EU's hydrogen strategy (2020)
- European Clean Hydrogen Alliance (2020)
- Hydrogen and gas markets decarbonization package (2021)
- Fit-for-55 package (2021)
- Recovery plan NextGenerationEU (2021)
- Clean Hydrogen Partnership (2021)
- REPowerEU plan (2022)
- Hydrogen accelerator (2022)
- Important Projects of Common European Interest (IPCEIs) (2022)
- European Hydrogen Bank (Autumn 2023)

You are the beneficiaries, we can ease the access

The implementation of concrete **EU funding measures** to accelerate the **energy transition** and the **decarbonization** of the EU's energy system has already started.

Ports, Transport and **Logistics** operators are at the heart of these incentives.

We offer our expertise to the players that want to **develop or complete a H2 based decarbonization strategy**, profiting of the **EU funding opportunities NOW** available.



H2 Ready

Magellan Circle, with more than 20 years of experience in the EU Consultancy in Transport, Logistics, Mobility, Environment and Circular Economy, and **Simplifhy** with its strong know-how in designing and implementing H2 based decarbonization strategies, combine their expertise to offer you:



SCENARIO ANALYSIS

in keeping with your specific ecosystem, we present opportunities and risks related to the suitable H2 solutions



SUPPORT IN THE SELECTION OF THE BEST OPTIONS

in accordance with your key strategic priorities (i.e. efficiency, distinctiveness, stakeholders' management etc.)



ABSTRACT PRESENTATION

provision of a high-level description of the necessary interventions



EU FUNDING ACCELERATOR

Continuous monitoring of the EU funding opportunities suitable for the identified best scenario



EU FUNDING OPPORTUNITIES PRESENTATION

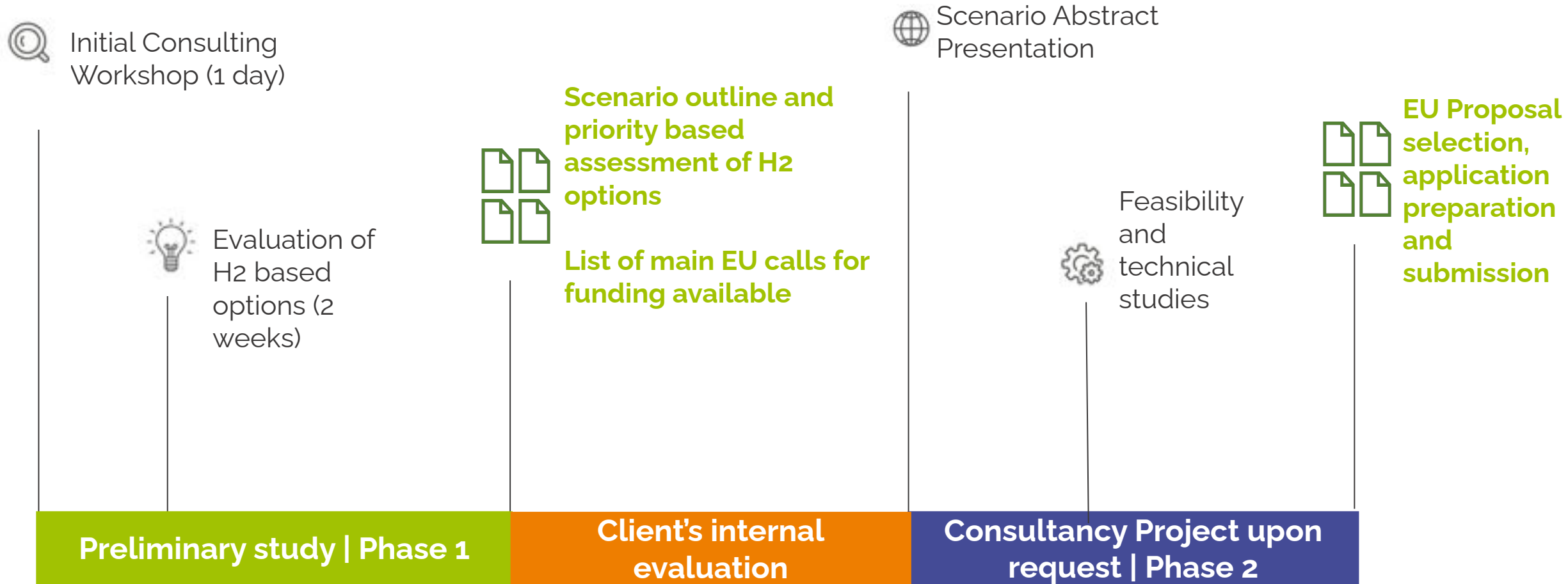
Provision of a comprehensive list of open calls for application to EU Funding programmes



SUPPORT IN THE IDENTIFICATION OF THE BEST CALL FOR FUNDING

According to the outcomes of the scenario analysis and the potential consortia under development, identification of the most suitable option for funding

The approach

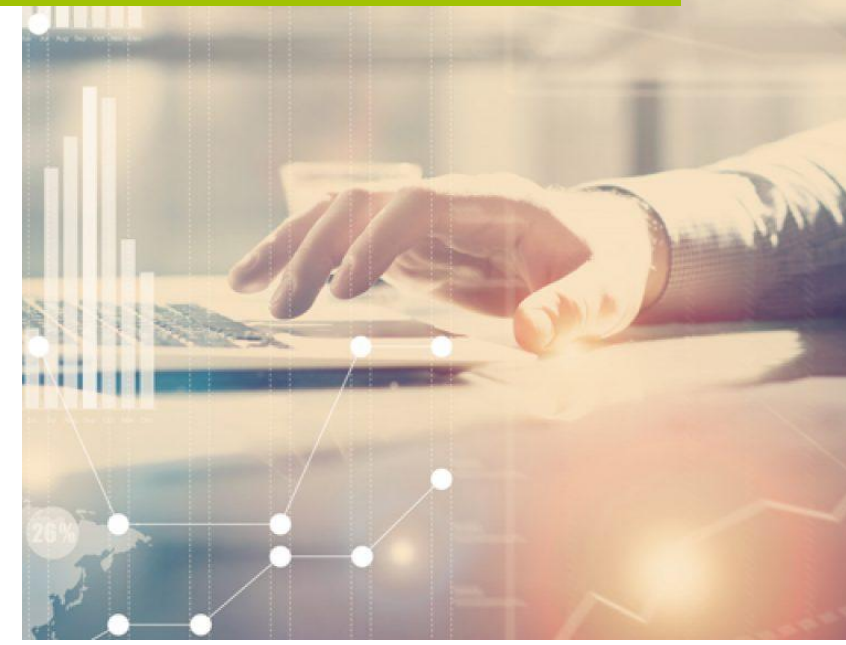


Benefits



- Single point of contact for a complex process both on the consultancy and technical level
- Technical leadership of experienced experts on Hydrogen, able to identify the H2 most adequate technologies according to the context and the market readiness
- Decades-long and specialized knowledge of the port and logistics market and dynamics of financing with European funds.
- Extensive experience in Hydrogen Ecosystems (hydrogen valleys, industry, logistic) allow easy multidisciplinary synergies to get best options available on local territories.

SUCCESS CASES in EU Funding for H2 and renewable gases



Identification of funding opportunities for adaptation & digitalisation of natural gas storage and transport and conversion of industrial processes to biomass

Preparation of funding proposal under the EU Innovation Fund programme for green hydrogen projects

Development of financial models for a new “hydrogen valley” project, to be applied under the national resilience plan (NextGenerationEU funds)

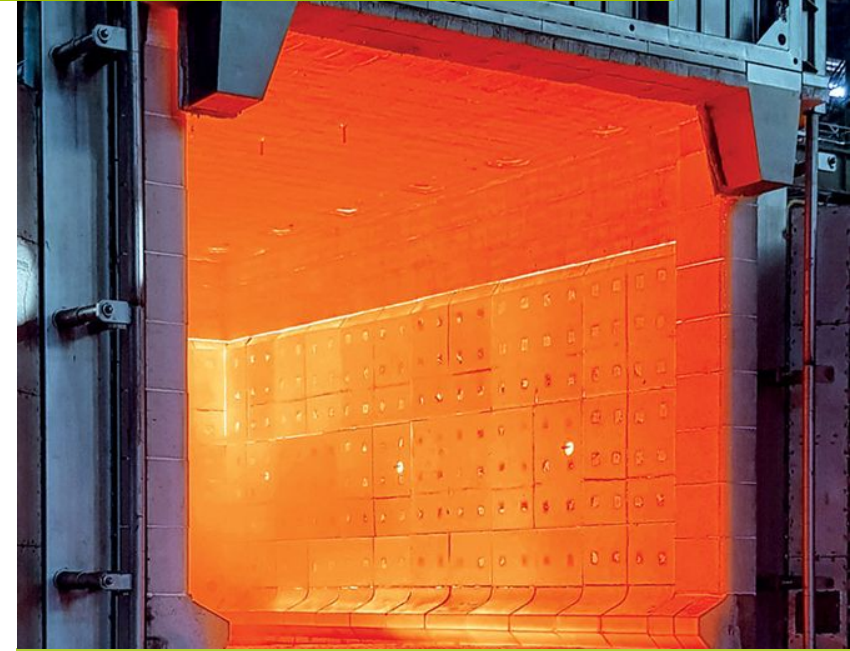
SUCCESS CASES H2 solutions design and implementations



Cogeneration plants using solid oxide fuel cells in airports and industry



Recovery plant - hydrogen purification and subsequent use for industrial decarbonization



Production and mixing plant for furnace feeding at different hydrogen percentages

Focus - H2 Implementation in Ports



Goods handling

Use as a **primary energy source** for goods handling vehicles. **Increasing autonomy** and **reducing charging times** compared to battery systems.

- Hydrogen is particularly effective in all vehicles that require high availability during the day and reduced downtime.
- Charging times comparable to those of commercially available vehicles can be achieved, thus decarbonizing the wheeled transport sector.



Industrial Decarbonization

Distribution of hydrogen as an **energy carrier for large and small-scale shipping**. Use in both inland and coastal areas.

- Shipping is currently 99.6% fossil-fuelled with emissions of about 1 billion tonnes of CO2 each year.
- Hydrogen can be a solution as it can be used directly in gas/liquid form, or as a raw material for the generation and distribution of other clean fuel.



Ship Transport

Direct use for **chemical processes**, **high-temperature heat generation** and **high-efficiency power generation** via fuel cells.

- As a substitute or through mixing with methane gas to generate high temperature heat.
- In the chemical sector, hydrogen can be used for the production of green ammonia or methanol.
- Used for energy production through cogeneration with very high electrical efficiency.

Contacts



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