

Hystories - introduction to the project

Arnaud Réveillère¹

1: Geostock, France

+ ALL THE HYSTORIES TEAM !

25/05/2023



Acknowledgment



1

Introduction to the project work plan

2

Introduction to the project consortium

1

Introduction to the project work plan

Hystories, a Clean Hydrogen Partnership project



Vision

Support a sustainable hydrogen economy, contributing to EU's climate goals

Mission

Facilitate the transition to a greener EU society through the development of hydrogen technologies

EUROPEAN PARTNERSHIP



Co-funded by
the European Union

It is closely related to several other FCH2-JU/CHP projects:



<https://hyunder.eu/>



<https://hypster-project.eu/>



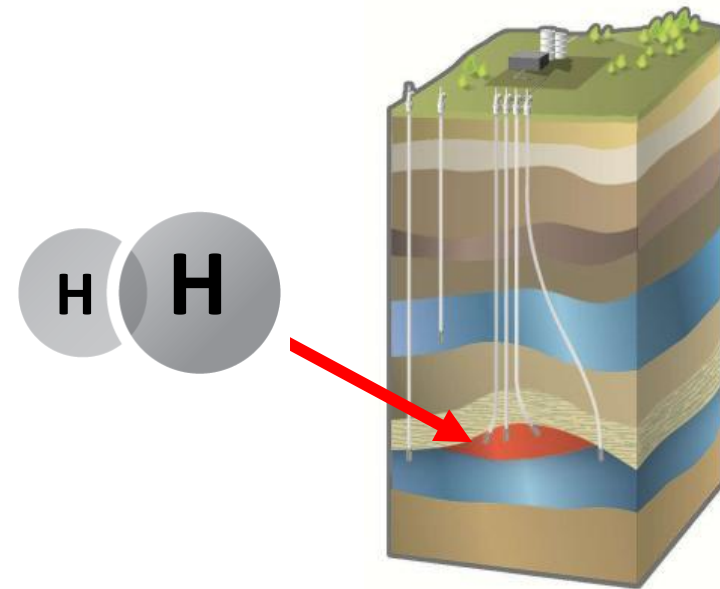
<https://www.hyuspre.eu/>

Context of the 2020 call for research proposals and Hystories' work proposition

Context



Solution considered in this project



Pure hydrogen storage in porous media has never been done. Technical developments are needed

→ **Hystories**

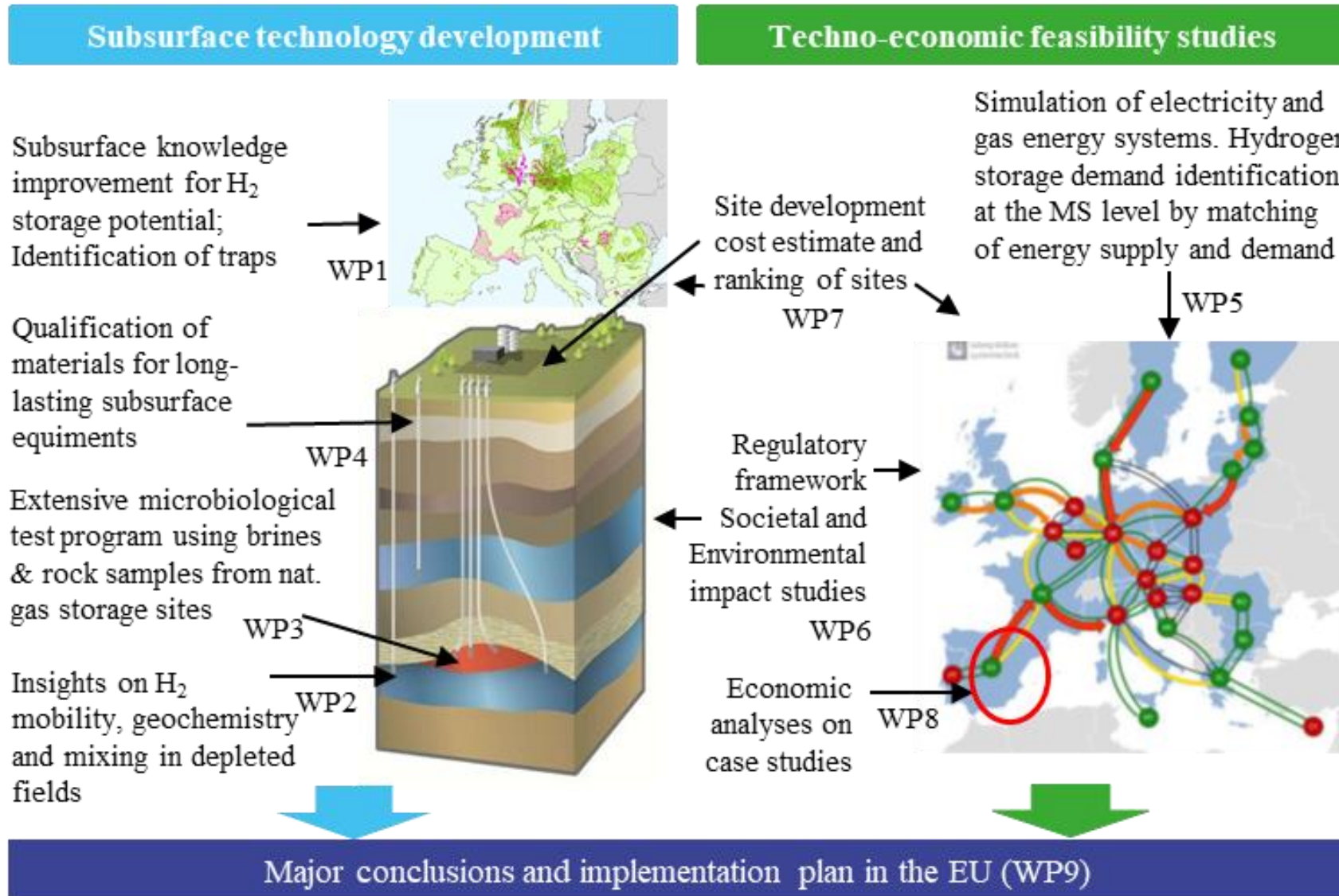
Decision makers need insights. Storage demand, environmental/societal impacts studies, case studies are needed

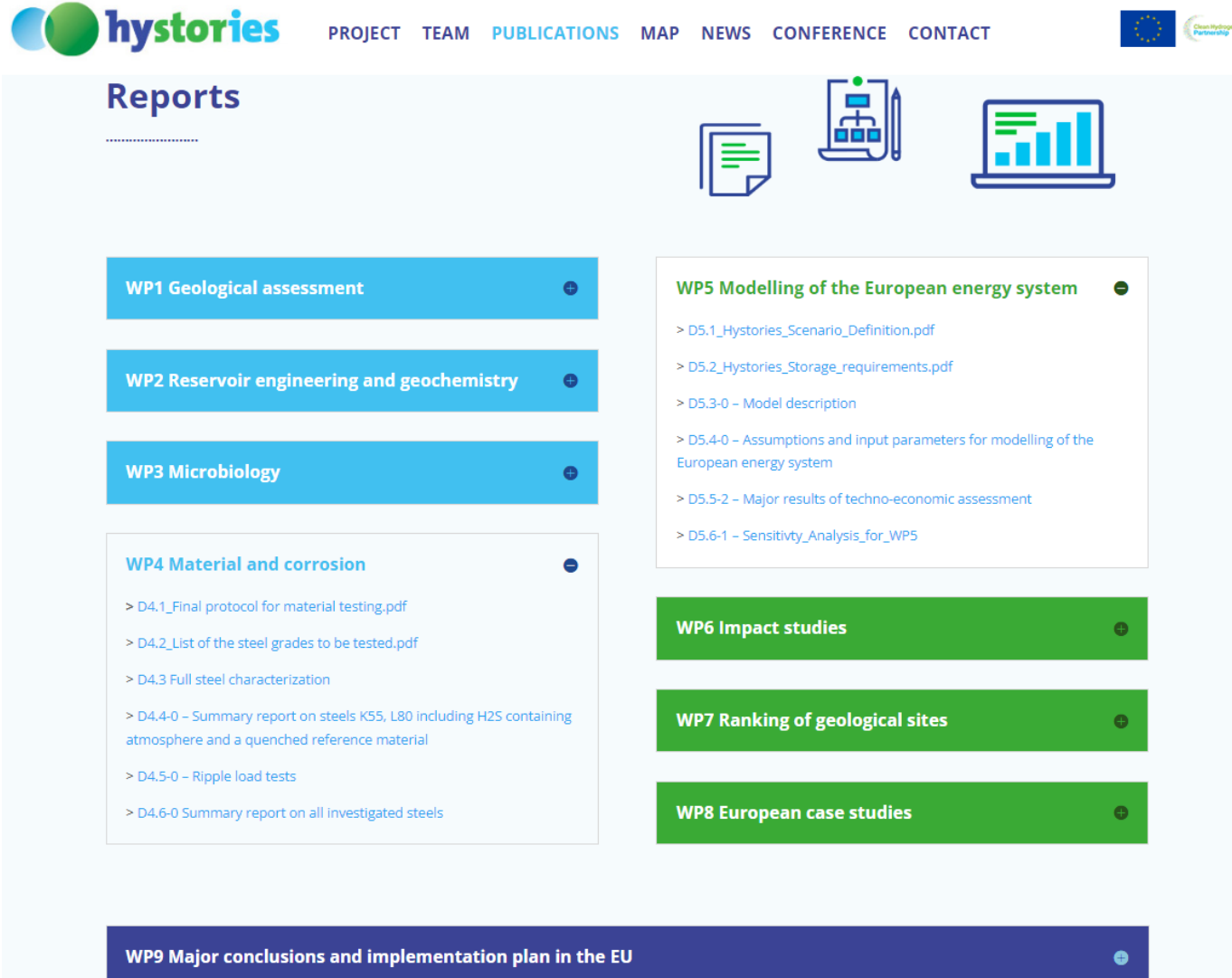
→ **Hystories**

Hystories work program

Start Jan 2021

End June 2023





The screenshot shows the 'Reports' section of the Hystories website. It features a navigation bar with 'PROJECT', 'TEAM', 'PUBLICATIONS', 'MAP', 'NEWS', 'CONFERENCE', and 'CONTACT'. Below the navigation, there are three icons representing documents, a flowchart, and a bar chart. The main content area lists nine work packages (WP1 to WP9) with expandable details. WP1, WP2, and WP3 are in blue bars with minus signs. WP4, WP5, and WP9 are in white bars with plus signs. WP6, WP7, and WP8 are in green bars with plus signs. The details for WP4 and WP5 are expanded, showing a list of documents.

hystories PROJECT TEAM PUBLICATIONS MAP NEWS CONFERENCE CONTACT

Reports

WP1 Geological assessment

WP2 Reservoir engineering and geochemistry

WP3 Microbiology

WP4 Material and corrosion

- > D4.1_Final protocol for material testing.pdf
- > D4.2_List of the steel grades to be tested.pdf
- > D4.3 Full steel characterization
- > D4.4-0 - Summary report on steels K55, L80 including H2S containing atmosphere and a quenched reference material
- > D4.5-0 - Ripple load tests
- > D4.6-0 Summary report on all investigated steels

WP5 Modelling of the European energy system

- > D5.1_Hystories_Scenario_Definition.pdf
- > D5.2_Hystories_Storage_requirements.pdf
- > D5.3-0 - Model description
- > D5.4-0 - Assumptions and input parameters for modelling of the European energy system
- > D5.5-2 - Major results of techno-economic assessment
- > D5.6-1 - Sensitivity_Analysis_for_WP5

WP6 Impact studies

WP7 Ranking of geological sites

WP8 European case studies

WP9 Major conclusions and implementation plan in the EU

- Nearly all Hystories reports are public
- 2021 reports are accepted by CHP
- 2022 -2023 reports are under preliminary approval (waiting for the review in Fall 2023)

2

Introduction to the project consortium

Project consortium from 17 European countries

Project Partners:



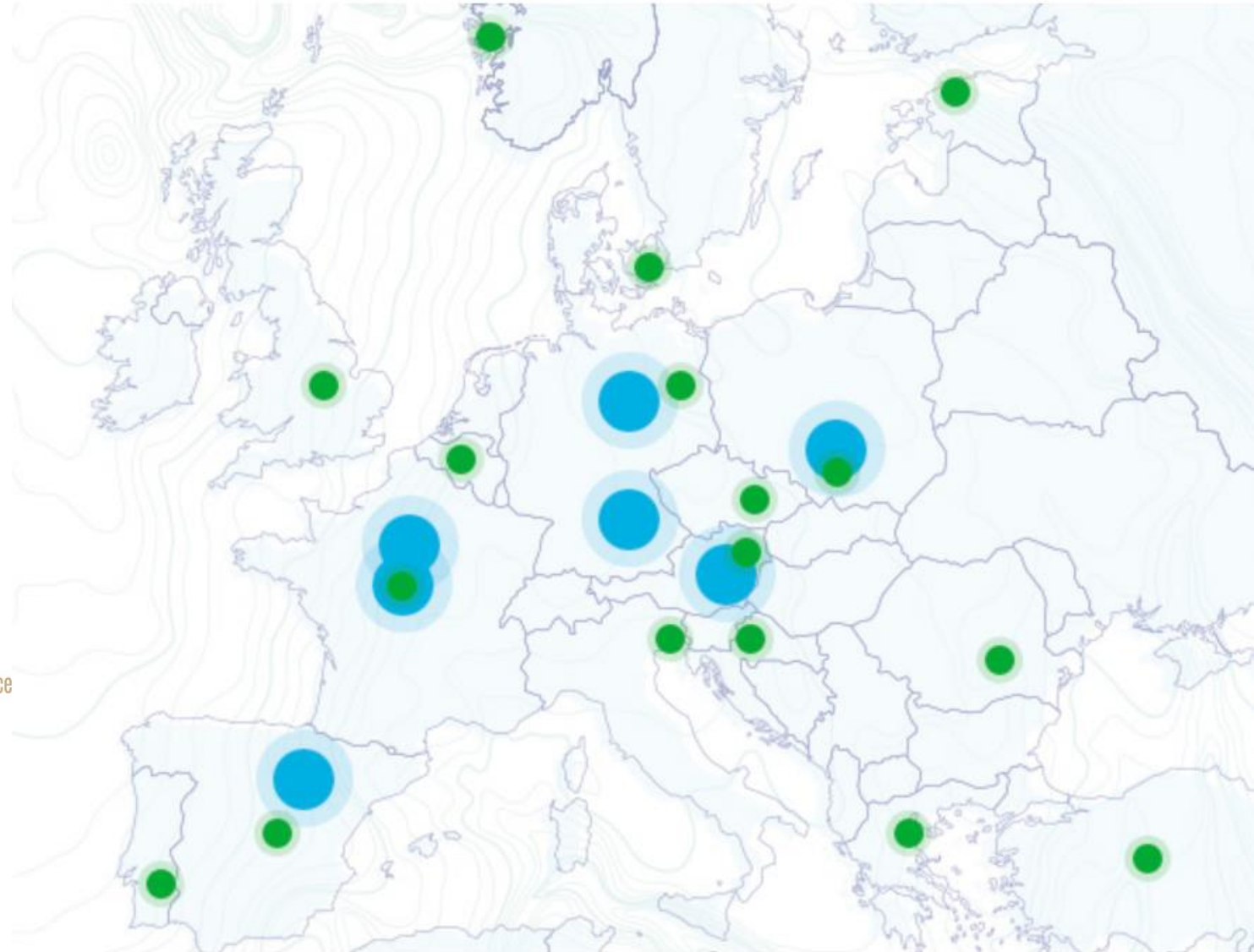
FUNDACIÓN PARA EL
DESARROLLO DE LAS NUEVAS
TECNOLOGÍAS DEL HIDRÓGENO
EN ARAGÓN



Mineral and Energy
Economy Research
Institute
Polish Academy of Science



ludwig bölkow
systemtechnik



Hystories Third parties and Advisory Board

Project Third parties from



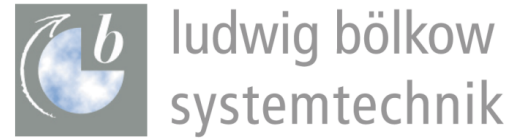
Project Advisory Board



Thank you ! Questions ?

Contact: arnaud.reveillere@geostock.fr

Hystories project consortium



Mineral and Energy
Economy Research
Institute
Polish Academy of Sciences

Acknowledgment

This project has received funding from the Fuel Cells and Hydrogen 2 Joint Undertaking (now Clean Hydrogen Partnership) under Grant Agreement No 101007176. This Joint Undertaking receives support from the European Union's Horizon 2020 Research and Innovation program, Hydrogen Europe and Hydrogen Europe Research.



The Project is co-funded by European Union

