

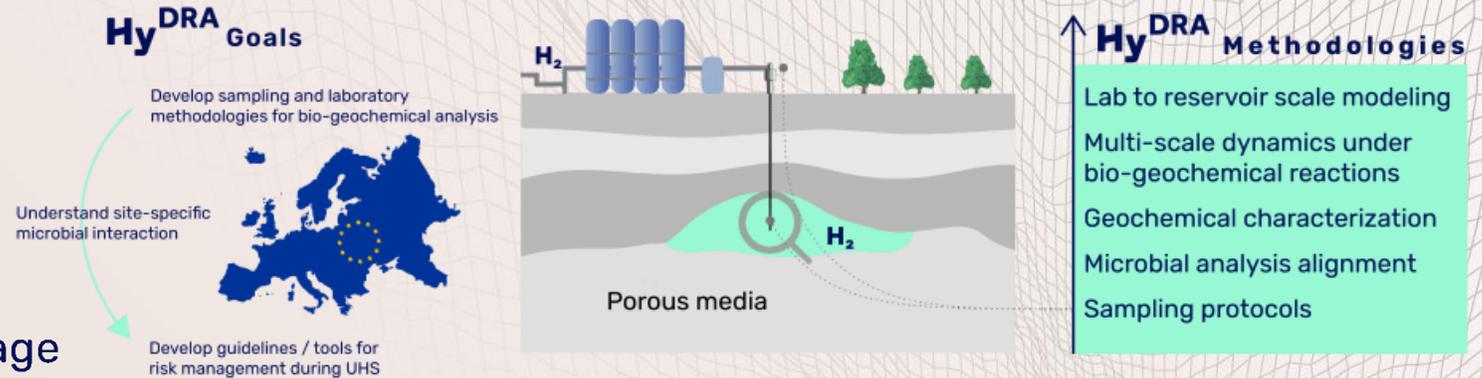
HyDRA

diagnostic tools and risk protocols to accelerate underground hydrogen storage

We aim to make sure that European underground hydrogen porous media storage is safe and effective

The project is supported by the Clean Hydrogen Partnership and its members. Co-funded by the European Union under Grant Agreement No. 101192337 – HyDRA. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the Clean Hydrogen Partnership. Neither the European Union nor the granting authority can be held responsible for them.

Underground hydrogen porous media storage

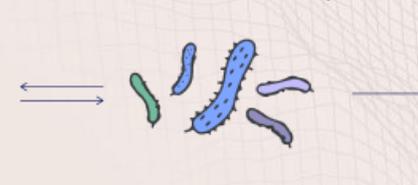


I Geochemical reactions



Fluid-rock interactions in different settings
Various geological environments

II Microbial activity



Diverse microbial community consuming H₂
Interplay of various microbes in UHS

III Bio-geochemical reactions



Realistic microbial activity in porous rocks
Impact on reservoir flow dynamics and mechanical integrity



Co-funded by
the European Union

Hy^{DRA}



Research Partners:

Objective

Characterisation of hydrogen-consuming microbial activity and interaction with the storage formation to determine guiding principles that mitigate risk and enable fast-tracking of porous media underground storage as part of the European hydrogen ecosystem.



THE UNIVERSITY
of EDINBURGH



UNIVERSITY
OF BERGEN



contacthydra@uib.no | <https://hydrahydrogen.eu>