

VALENTIA ISLAND

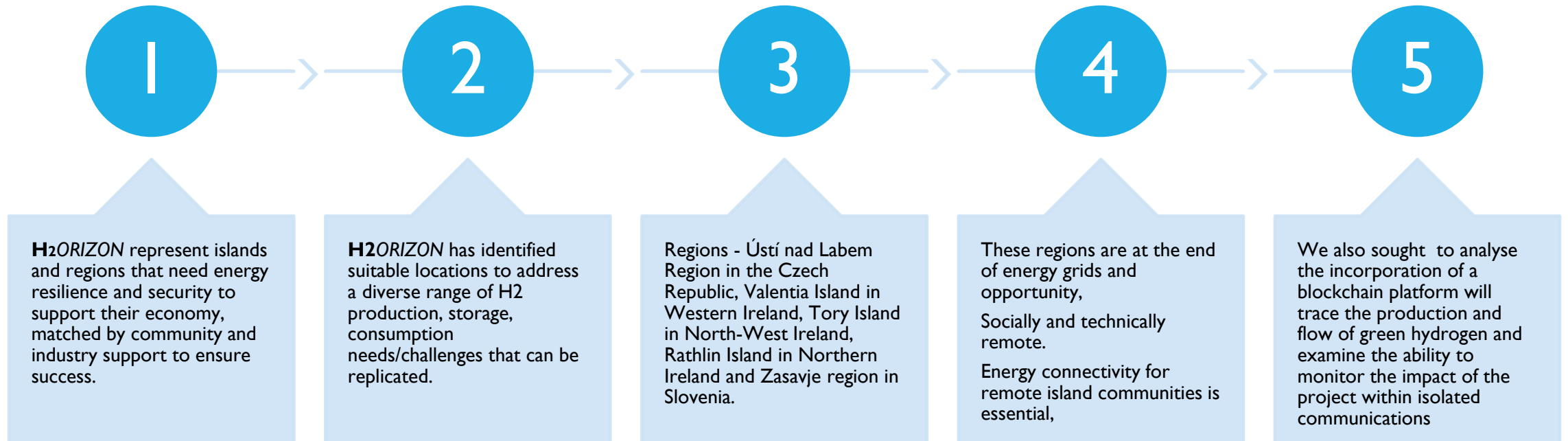
DAIRBHRE

'OAK ISLE'

H₂ORIZON



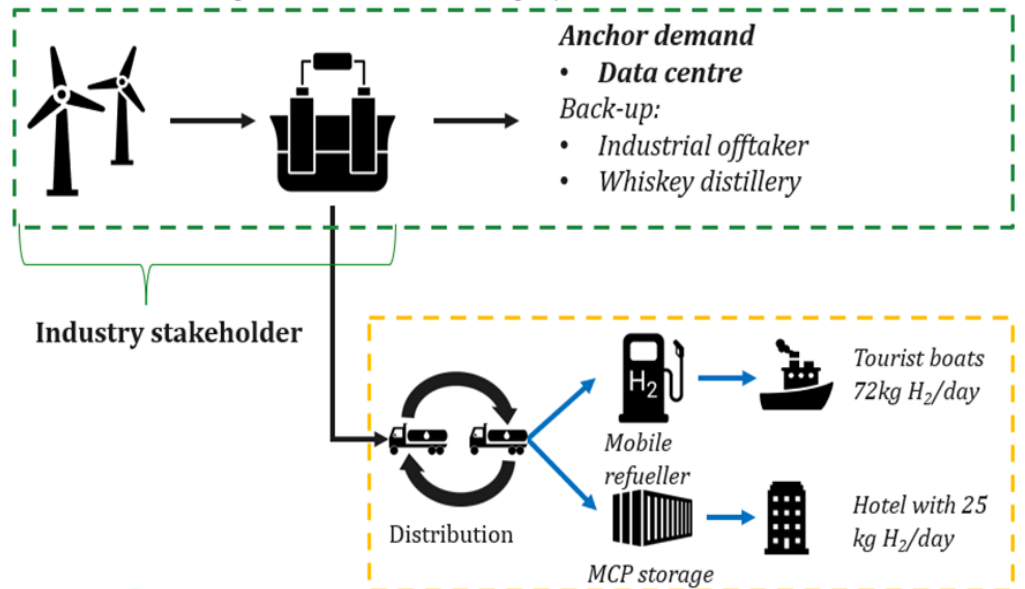
CONTEXT



VISION

- Centred around developing a replicable model, to be first demonstrated in Ireland, which can then be transplanted across Europe to provide benefits at multiple levels, including:
 - **Energy supply resilience**
 - **Development of renewable energy**
 - **Addressing grid constraint issues**
 - **Regenerating rural and remote communities**
 - **Decarbonising multiple sectors, including transport and industry**

New off-island scope needed for bankable project



VI Energy
cooperative

On island small scale demonstration to build interest ahead of demand growth once conditions more favourable (i.e. electrolyser cost reductions, local renewable supply, grid capacity upgrades)

OUTCOMES – VISION IS AHEAD OF H2 REALITY

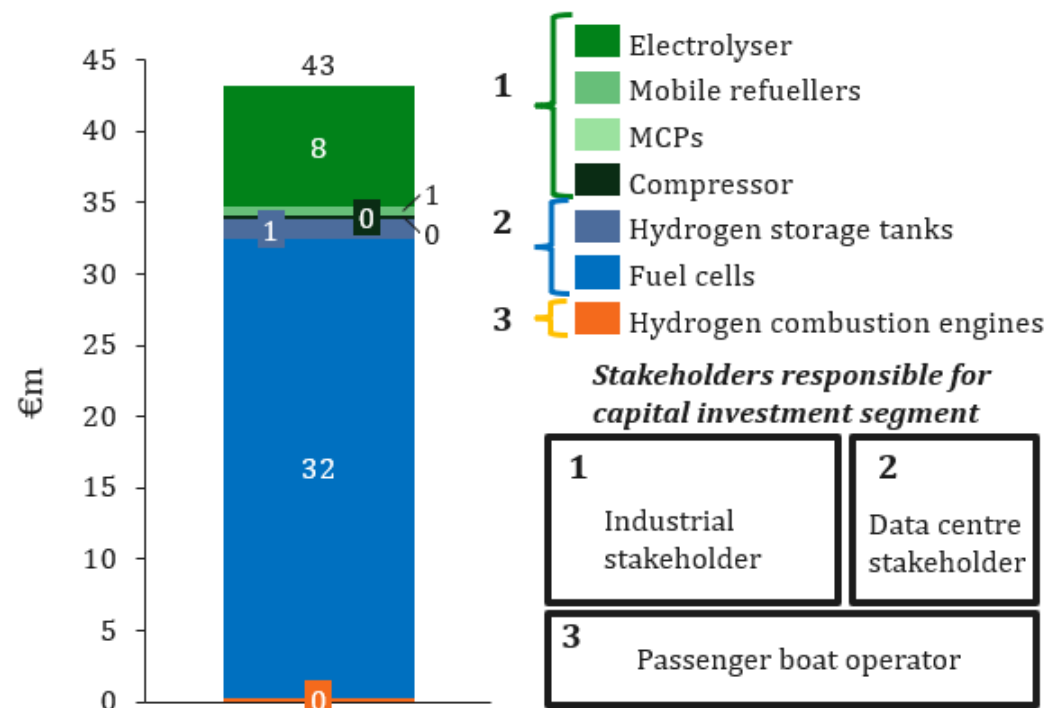
Developing an anchor demand

This is critical to enabling further hydrogen deployments outlined earlier. A data centre concept has been identified as the most promising anchor demand for the project. Several next steps will be required to develop this anchor demand.

- Development and conversation of data centre concept with data centre stakeholder
- Development of business case and feasibility
- Integration of data centre into project
- Further development of project scope

Discussions were held with other potential hydrogen offtakers, such as the ferry, a group of demands were identified to support the deployment of a large-scale anchor demand in the region.

Overview of project budget breakdown by equipment and stakeholder responsible



- GenComm Website nweurope.eu/gencomm
- LinkedIn – GenComm
- Twitter - [@GenComm_CH2F](https://twitter.com/GenComm_CH2F)
- Community Hydrogen Forum – CH2F - communityh2.eu
- Hydrogen Ireland website - hydrogenireland.org

Hydrogen Project Animation

- ▶ [GenComm main animation-2023 | Interreg NWE \(nweurope.eu\)](https://nweurope.eu/gencomm-main-animation-2023)