



**Securing European energy supply:  
LH2 as the bridge for international corridors**

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# The port of Amsterdam is a major European port and energy distributor



> 7 million tonnes of steel per year



78.6 million tonnes transshipment

45.0 million tonnes liquid bulk

6.1 million m3 storage capacity

> 400,000 aircraft movements per year

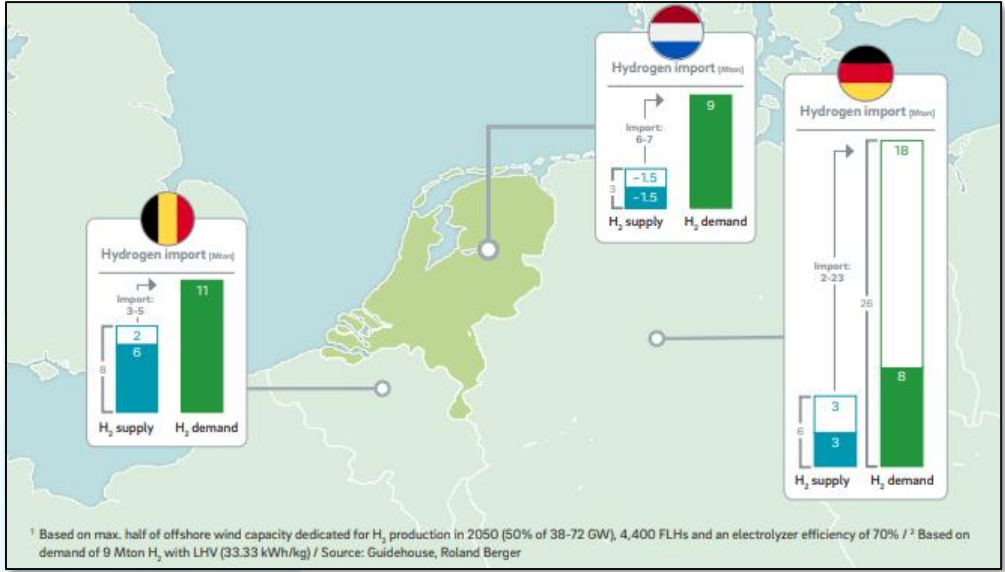
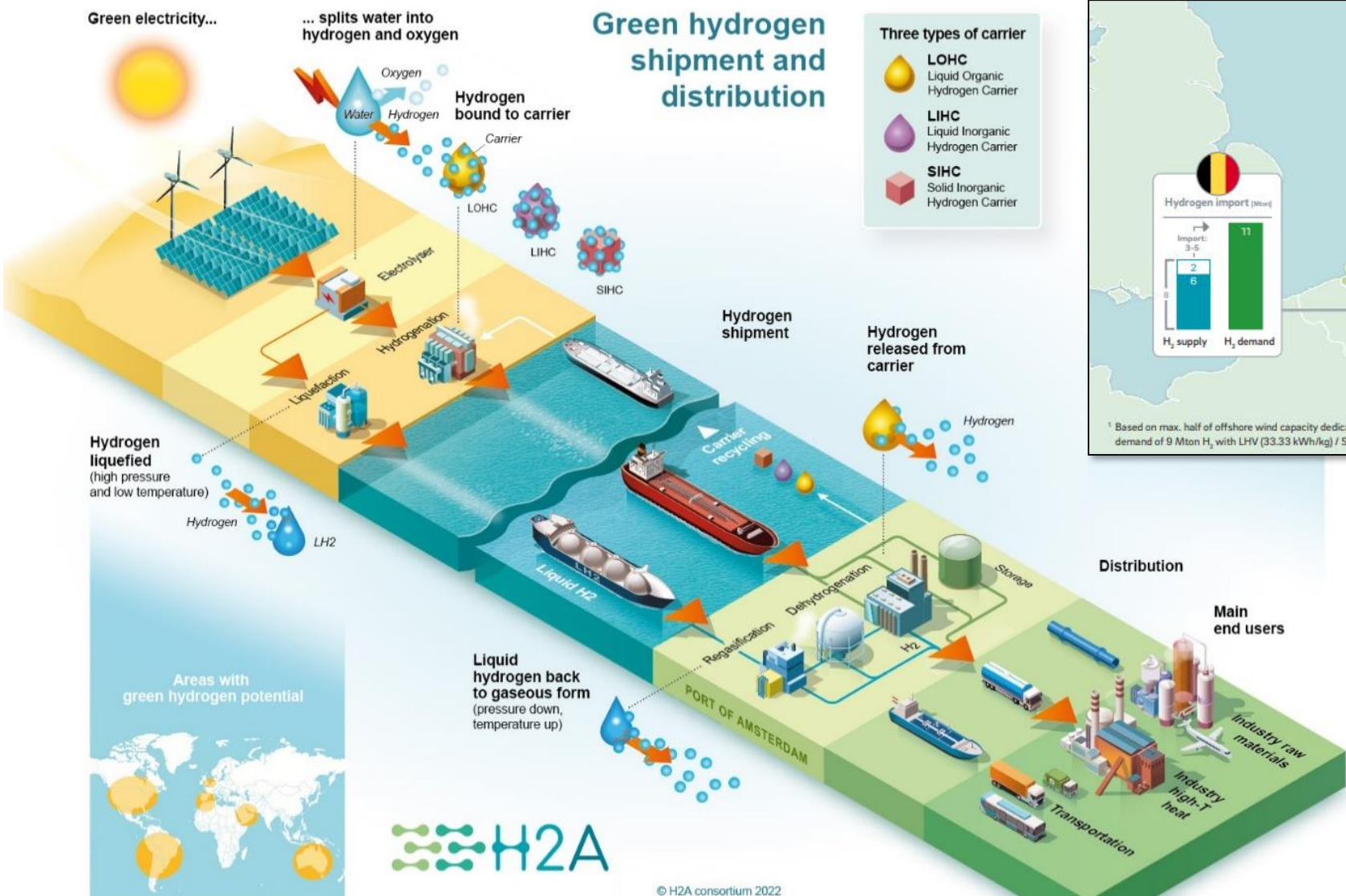


2.5 million residents

684 MWe electricity capacity



# The import of green hydrogen is crucial to meet both national and European demand



# Focus on development of both intra-European and intercontinental corridors

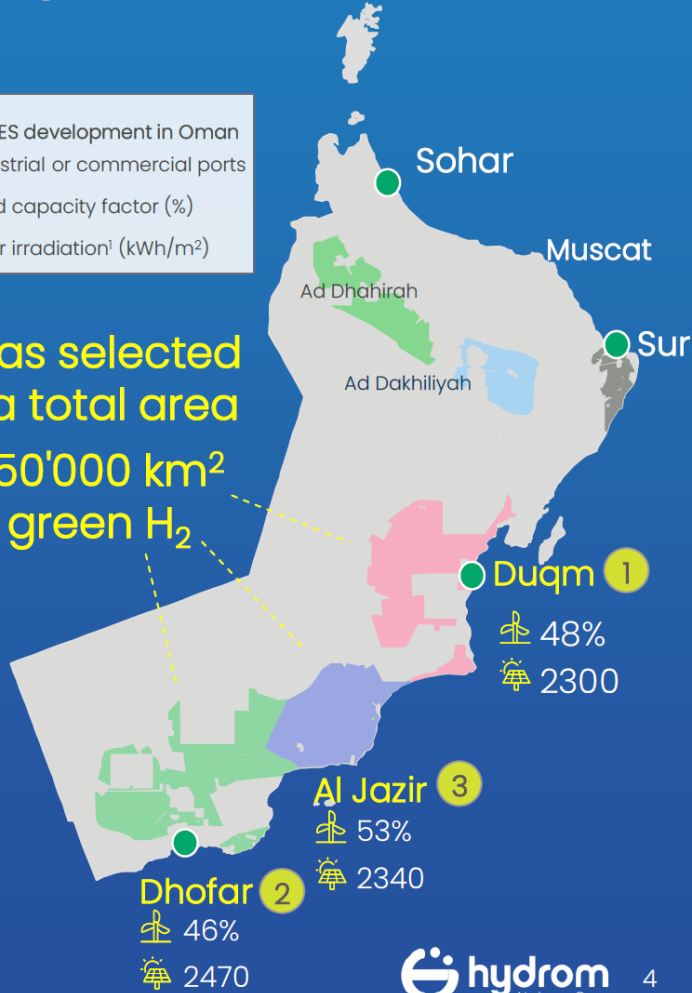


# Oman is well placed to be a key producer and supplier for the European market

50,000 km<sup>2</sup> allocated for green H<sub>2</sub> projects

- Areas for RES development in Oman
- Industrial or commercial ports
  - 🌿 Wind capacity factor (%)
  - ☀️ Solar irradiation<sup>1</sup> (kWh/m<sup>2</sup>)

3 areas selected with a total area of ~50'000 km<sup>2</sup> for green H<sub>2</sub>



# Three studies aimed at third party verification of critical assumptions

## Technical evaluation



- Independent evaluation of feasibility and readiness of Duqm-Amsterdam corridor

## Life-cycle environmental and socio-economic impacts



- Ensuring that no significant risks exist regarding sustainability and compliance

## Commercial and financial feasibility

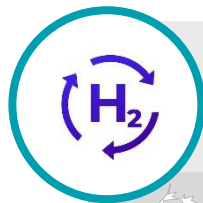


- Evaluation of feasibility of commercial scale LH2-corridor

# LH2-vessel has a big impact on the overall cost of the LH2 chain



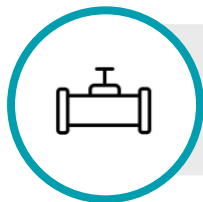
# The Oman-Amsterdam LH2-corridor offers tangible economic and societal advantages



200,000 tonnes of RFNBO-compliant hydrogen delivered to vital European industries before 2030



Price competitive in comparison to hydrogen produced in NW-Europe



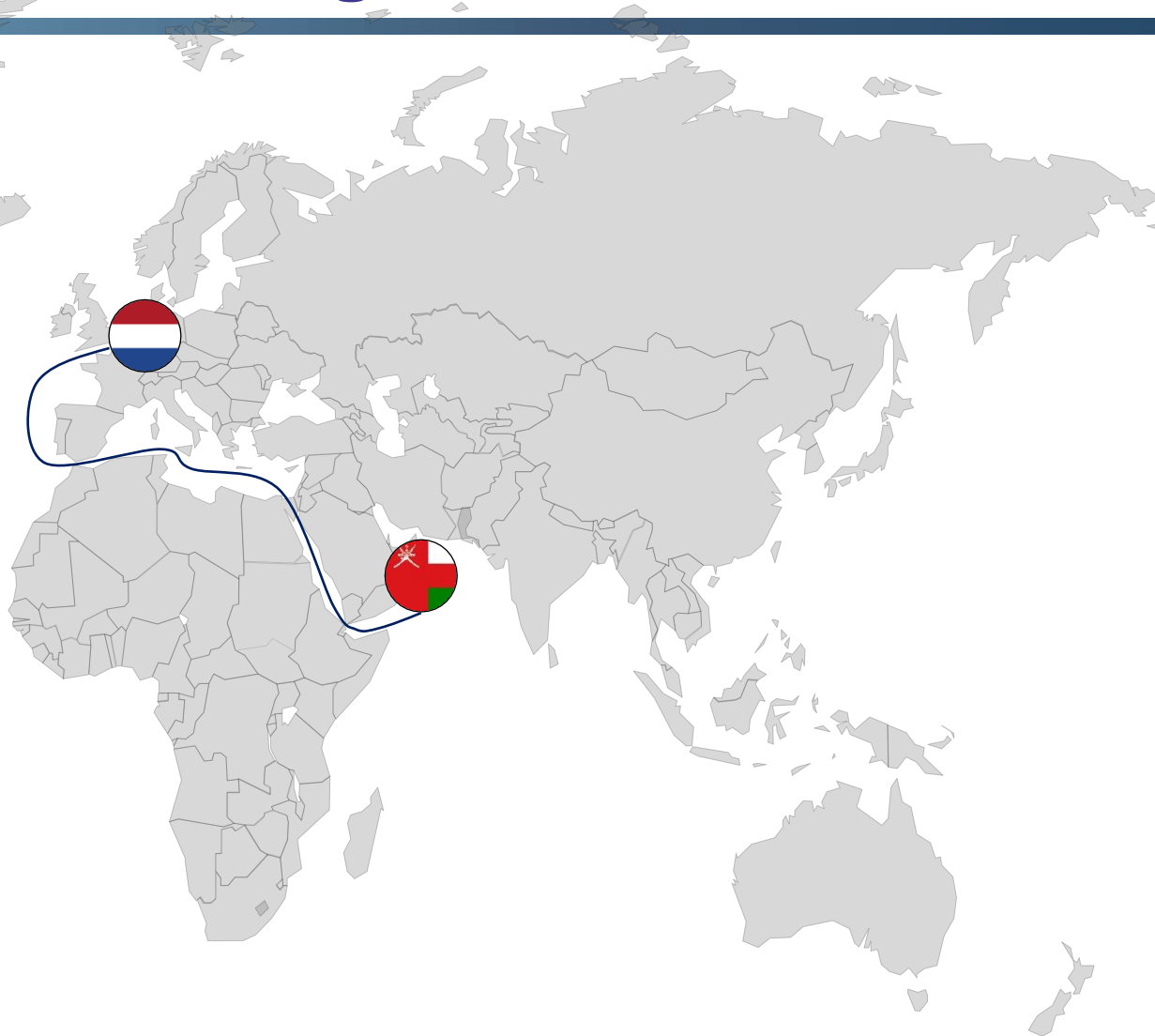
Distribution opportunities through miscellaneous modalities



High TRL, with parties ready to start implementation



Clear contribution to European decarbonisation targets







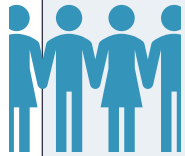
# ECOLOG Eos Project: World's First Liquid Hydrogen Import Terminal in the port of Amsterdam

Ellen van der Veer, ECOLOG Eos Terminal Netherlands Lead  
LH2 kennis community, 29-1-2025

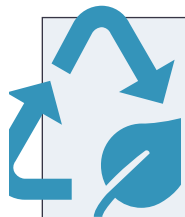
# Who is ECOLOG?



Leading Independent owner & operator of 39 LNG vessels & LNG regas units



Over 2,400 employees focused on safe operations



World's first developer of midstream solutions for CO<sub>2</sub> and H<sub>2</sub>



**Livanos Family**  
Shipowners since 1824



# ECOLOG's LH<sub>2</sub> Midstream Solution

## LH<sub>2</sub>

Bringing low carbon hydrogen from low cost producers to high value markets with ships and terminals.



**ECOLOG**

1  
LOW CARBON  
HYDROGEN  
PRODUCTION



2  
LIQUEFACTION AND  
EXPORT TERMINAL



3  
LOW CARBON SHIPPING



4  
IMPORT TERMINAL



5  
MULTIMODAL  
ONWARD  
TRANSPORTATION



6  
HYDROGEN  
CUSTOMERS



# ECOLOG Eos Terminal Amsterdam

- Phase 1: Liquid Hydrogen & CO<sub>2</sub> Handling in 2029
- 200,000 mt LH<sub>2</sub>/yr
- 1.8 million mt LCO<sub>2</sub>/yr
- Phased development to 600,000 mt/year

# "Last Mile Distribution of Hydrogen to Europe

Pipeline



H<sub>2</sub>avennet network (< 20 bar)



Hynetwork (< 63 bar)

Shipping



Seagoing vessels  
30,000 m<sup>3</sup> / 2,000 ton

Road & Rail



LH<sub>2</sub> trucks  
4 ton



Tube trailers  
0.8 ton



isotainers  
3 ton / isotainer  
120 ton / train



# Contact

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Vertrouwelijk