



BalticSeaH2

Demonstrating hydrogen economy with the largest cross-border Hydrogen Valley in Europe

The project is supported by the Clean Hydrogen Partnership and its members.

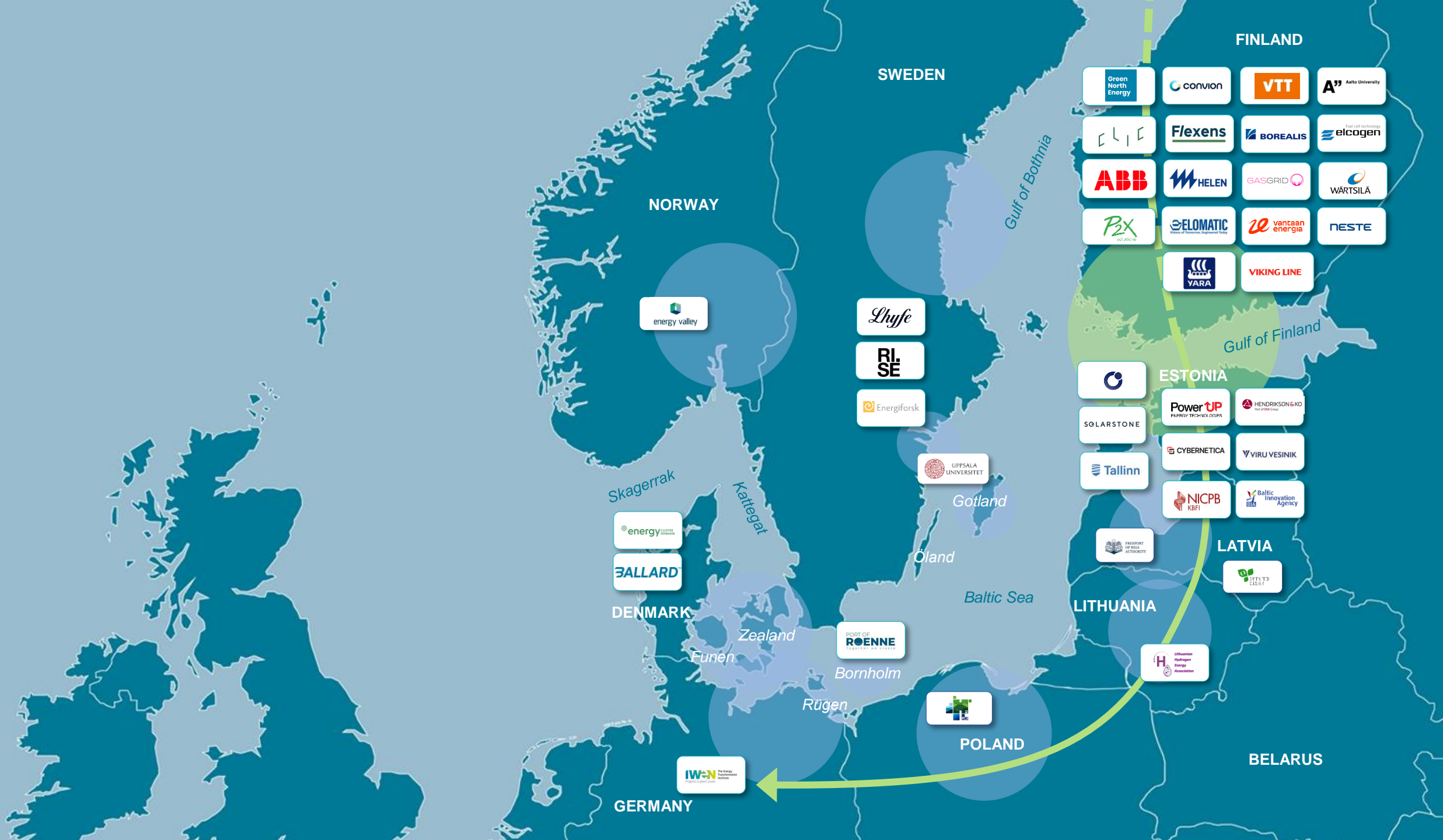


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BalticSeaH2 objective

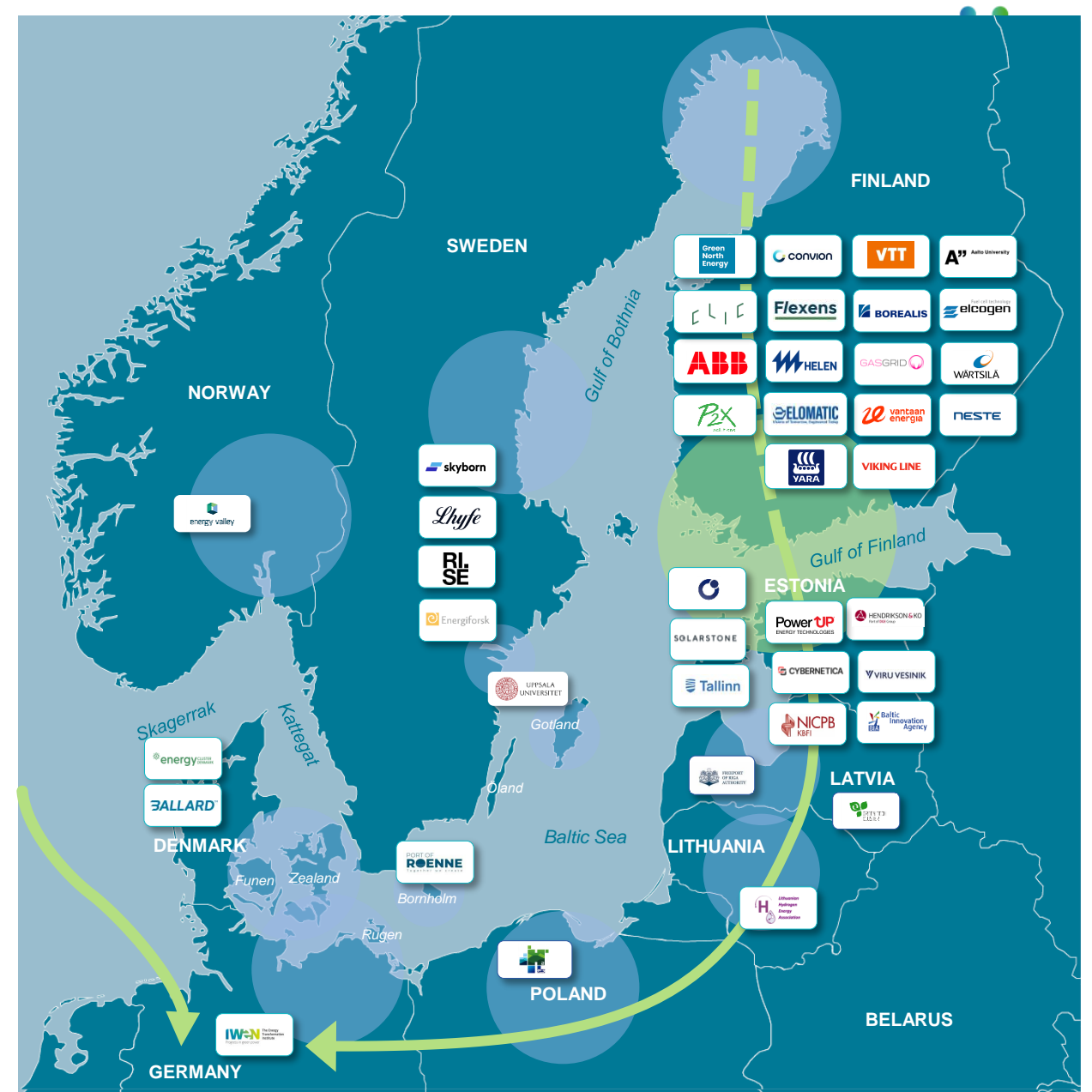
BalticSeaH2 pioneers an innovative initiative, establishing a significant **hydrogen valley** spanning across the Baltic Sea region. Focused on main valley in southern Finland and Estonia, the project aims to revolutionize the energy landscape, fostering self-sufficiency and minimizing carbon emissions in various industries. Results from the main valley will be replicated in other regions of the project.

With a consortium of 40 partners from nine Baltic Sea area countries and several different industries, BalticSeaH2 strives to build **an integrated, interregional hydrogen economy on an unprecedented scale in Europe.**



About BalticSeaH2

- 40 partners in 9 countries
- Coordinated by CLIC Innovation and Gasgrid Finland
- Main valley between Finland and Estonia: replication valleys in Norway, Sweden, Denmark, Latvia, Lithuania, Poland and Northern Germany
- Total budget 33 M€, EU funding for 25 M€



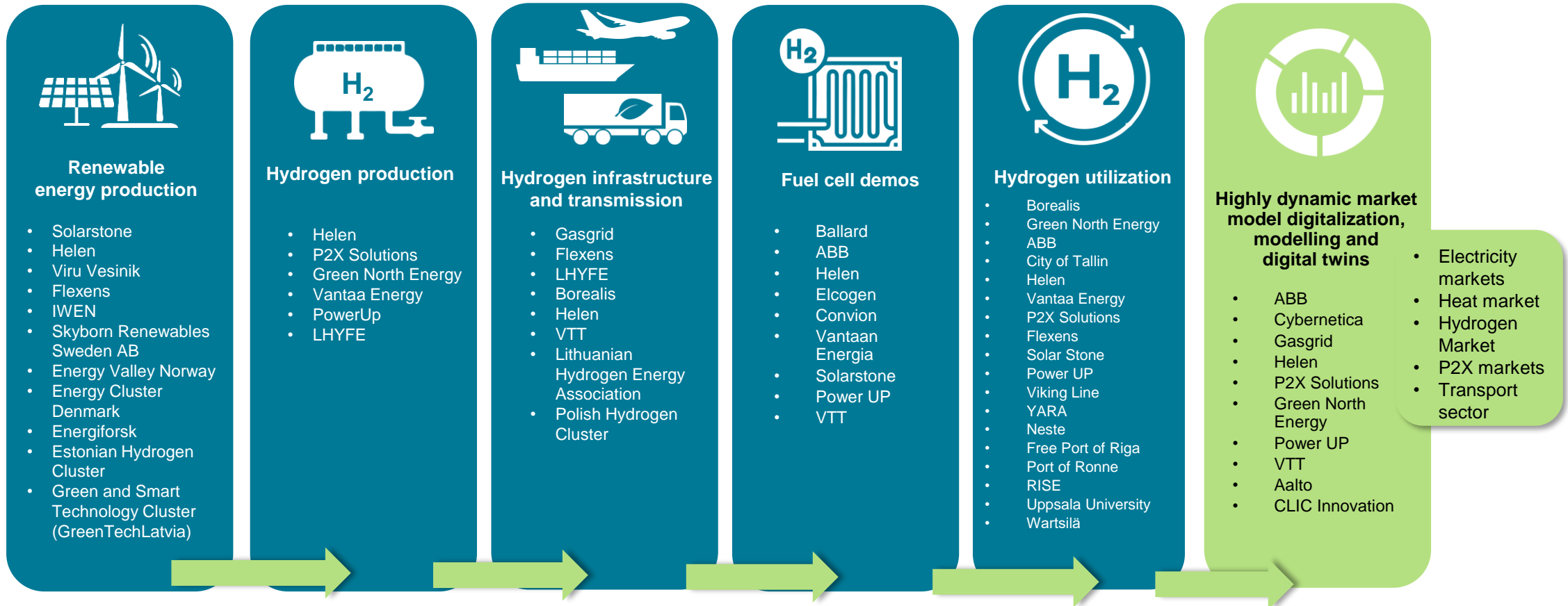
BalticSeaH2 Main Valley

Special features:

- Cross-border main Valley Estonia - Southern Finland with pipeline connection
- Included end-use sectors in the main Valley:
 - Traffic (direct use and e-fuels)
 - Chemical industry
 - Energy industry (P2X with X=different products)
 - Maritime: usage and hydrogen transport
- 7 connected Valleys via pipeline and maritime connections support build-up of a full Baltic Hydrogen Economy



Hydrogen value chain and infrastructure



Work Package structure

OUR MISSION: To establish a sector-coupled interregional hydrogen economy

WP1
Project Management and Coordination

WP8
Communication, Dissemination and Exploitation

WP6 Hydrogen Marketplace

WP7 Impact creation and Replication

WP2
Vision, social acceptance
and Stakeholder Engagement

WP3
Green Hydrogen Production, Storage,
Transmission and Distribution

WP4
Hydrogen consumption
Use Cases

P2X
Case

Vantaa
Energy
Case

Green
North
Case

Helen
Case

Industrial
demo

Marine
sector
demo

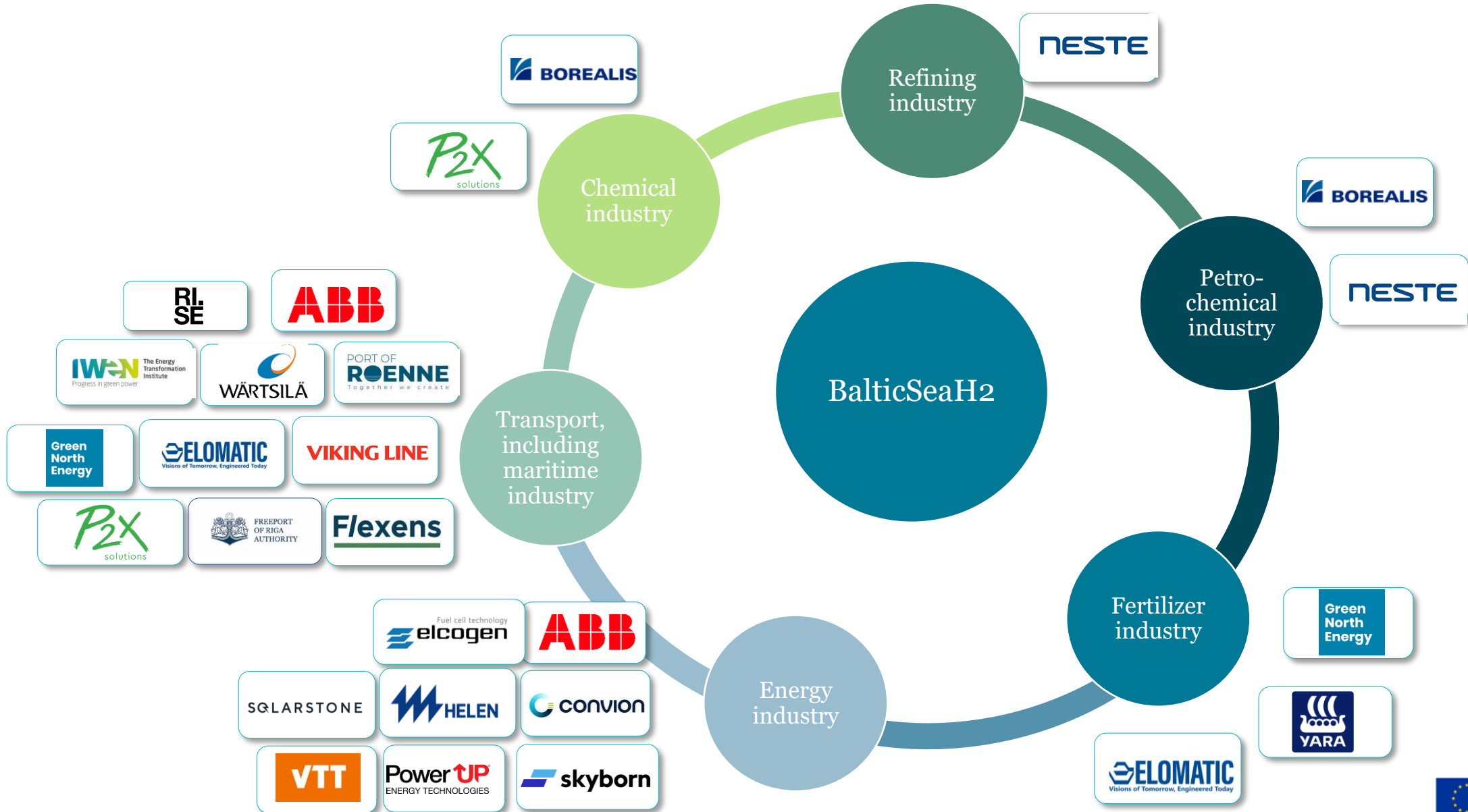
Road
transport
demo

Energy
demo

Built
environment
demo

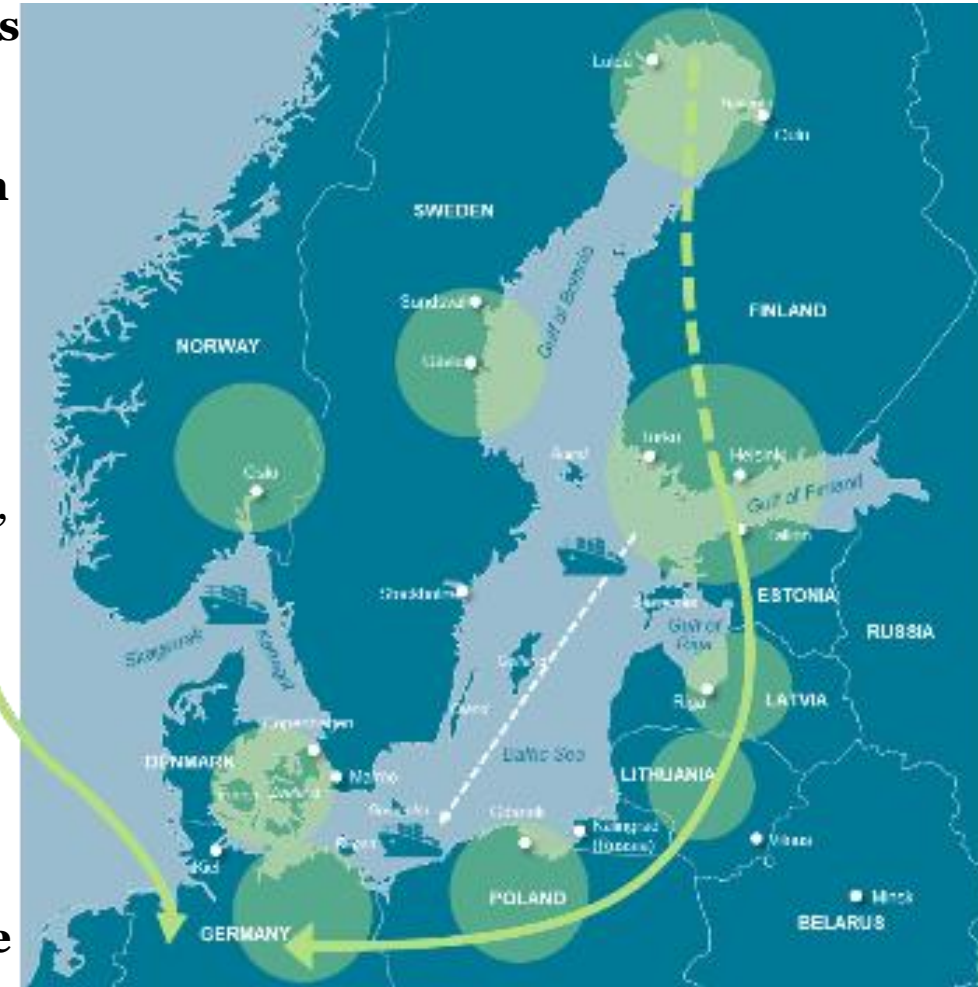
WP5
Maximising the Value of
Sector Integration

Use cases and industries involved in BalticSeaH2



The Lower Silesia Hydrogen Valley participation

- 1. Develop cooperation between the Baltic Hydrogen Valley partners and LSHV members** in the field of hydrogen harvesting and hydrogen technology development;
- 2. Creating an industrial base in the LSHV interiors for a blue ocean strategy** by building a sectoral innovation ecosystem model of floating hydrogen generating units for Offshore Wind Energy
- 3. Coordination of activities in the creation of a low-cost hydrogen supply chain** providing energy supply in various forms to a large industry
- 4. Co-operation of the interior LSHV companies with the Baltic Hydrogen Valley** in the logistics of non-carbon energy carriers (hydrogen, methanol, ammonia, NSG)
- 5. Preparation of a concept for an energy motorway** based on tube transport, linking the Baltic coast with the tri-border region (Poland, Czech Republic, Germany)
- 6. Utilisation of the Oder waterway and routes S3 and S5, S8 in Poland for the decarbonisation of transport** and LSHV communication with the Baltic region
- 7. Development of concepts for cavernous and underground storage facilities** for the stabilisation of onshore and offshore energy systems.



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BalticSeaH2valley.eu



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Thank you for your attention!

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