

Ports as enablers for **green** transition

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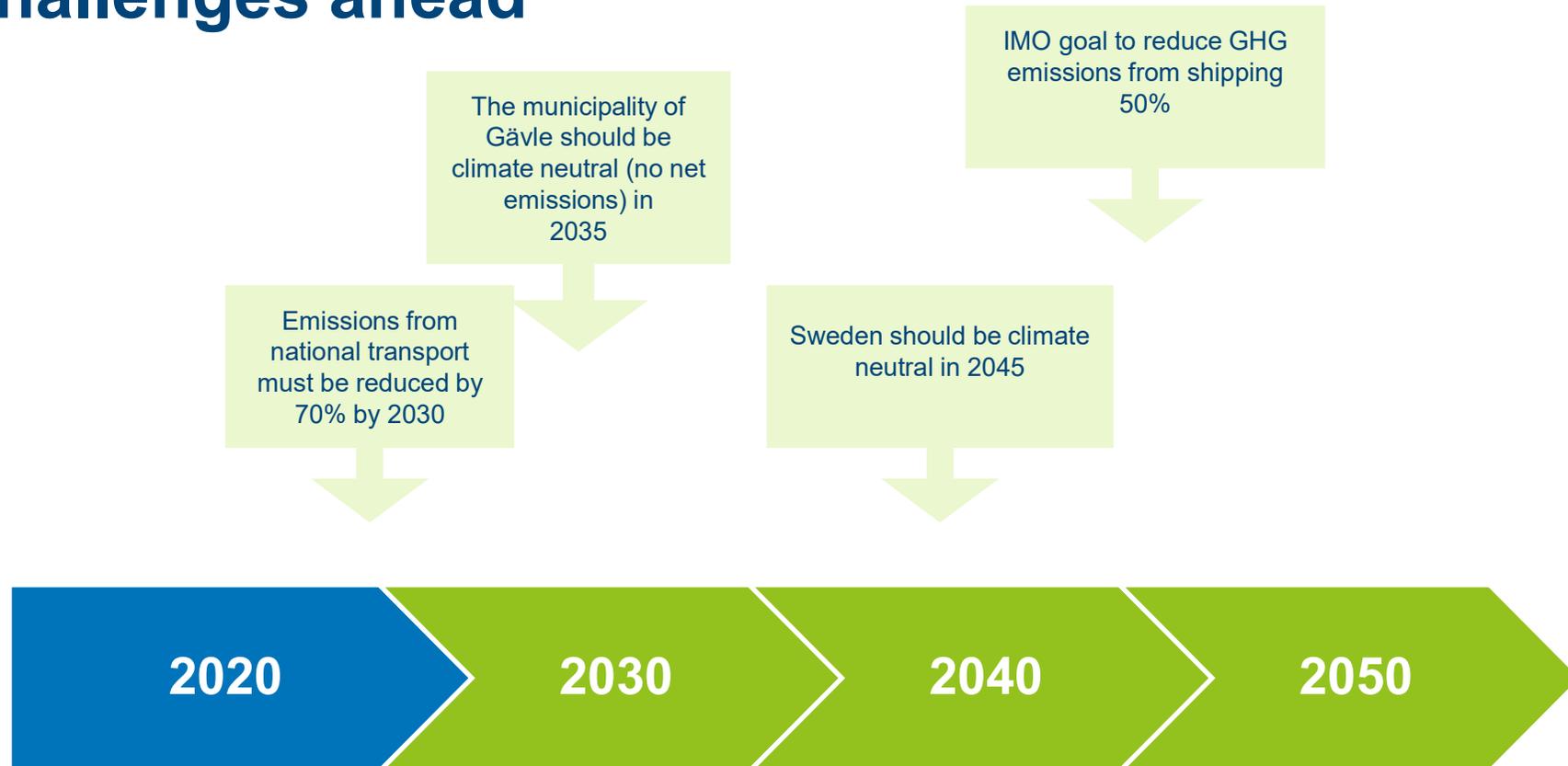


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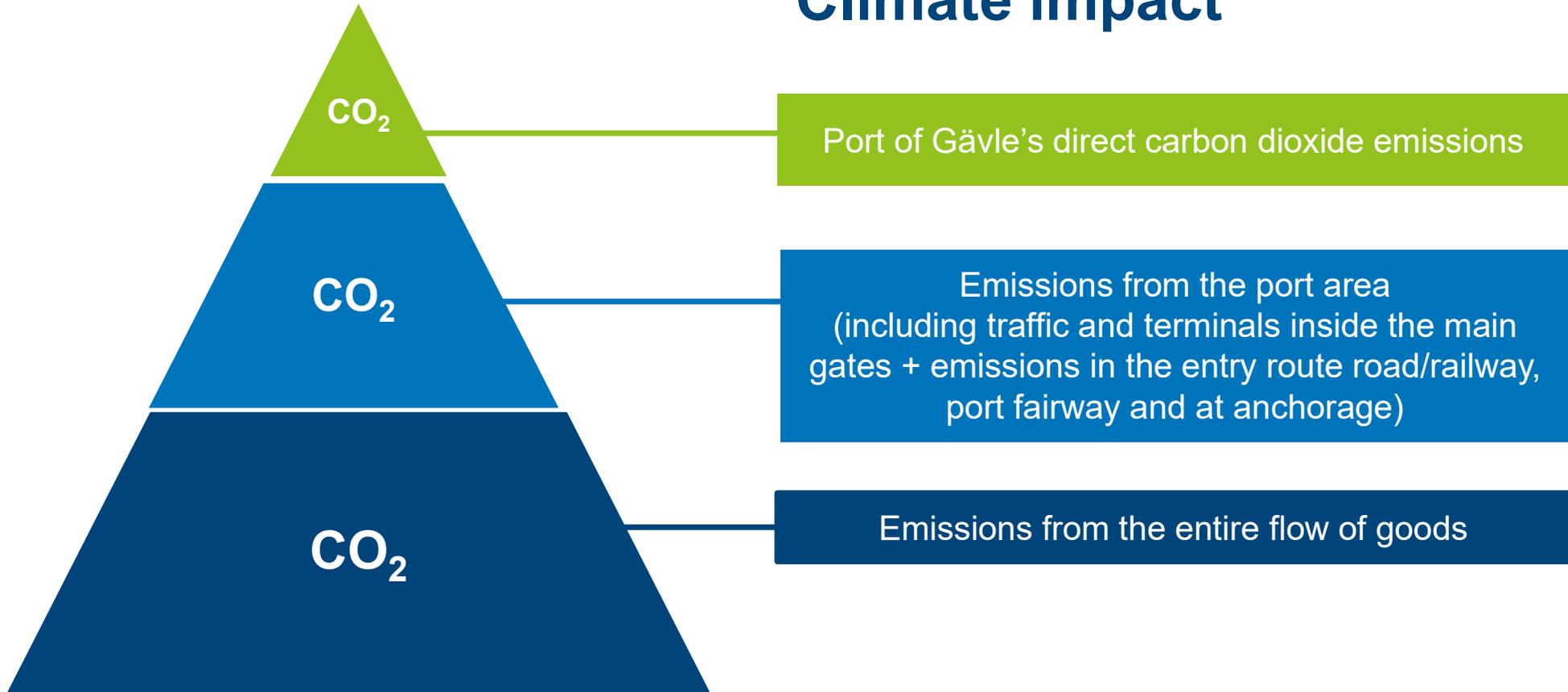


- Largest logistics hub in Central Sweden and largest container terminal on the east coast
- Owner: The municipality of Gavle
- Main operator: Yilport
- 6 milion tonnes of goods/year
- Environmental permit to tripple volumes

Challenges ahead

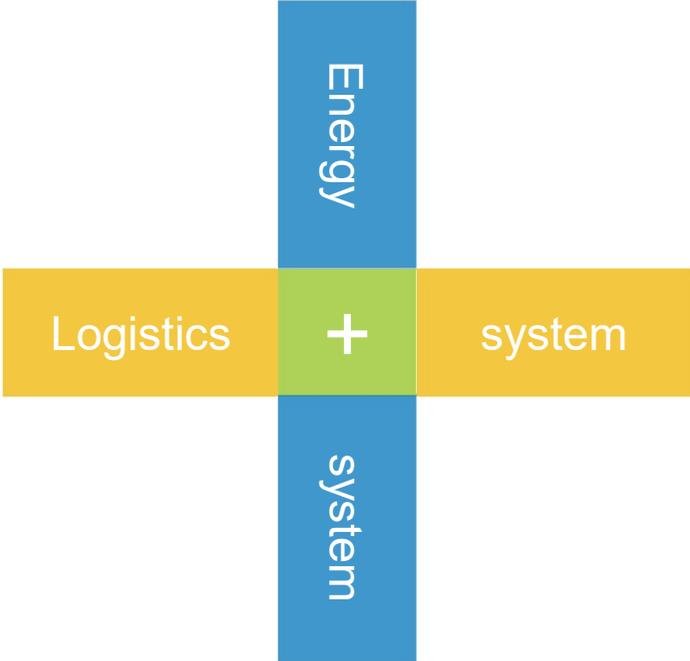


Climate impact





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Energy-optimised port cluster 2030

Main goals:

- Meeting the **CO2 reduction** and **energy efficiency** requirements in line with the Paris agreement (-80 % CO2 in 2030)
- Developing the port as an **energy hub** with sustainable system solutions

Continuous dialogue with cluster actors, who are invited to share initiatives and deliveries in published road-maps 3 t/y.

+ 4 major focus areas for the Port Authority.



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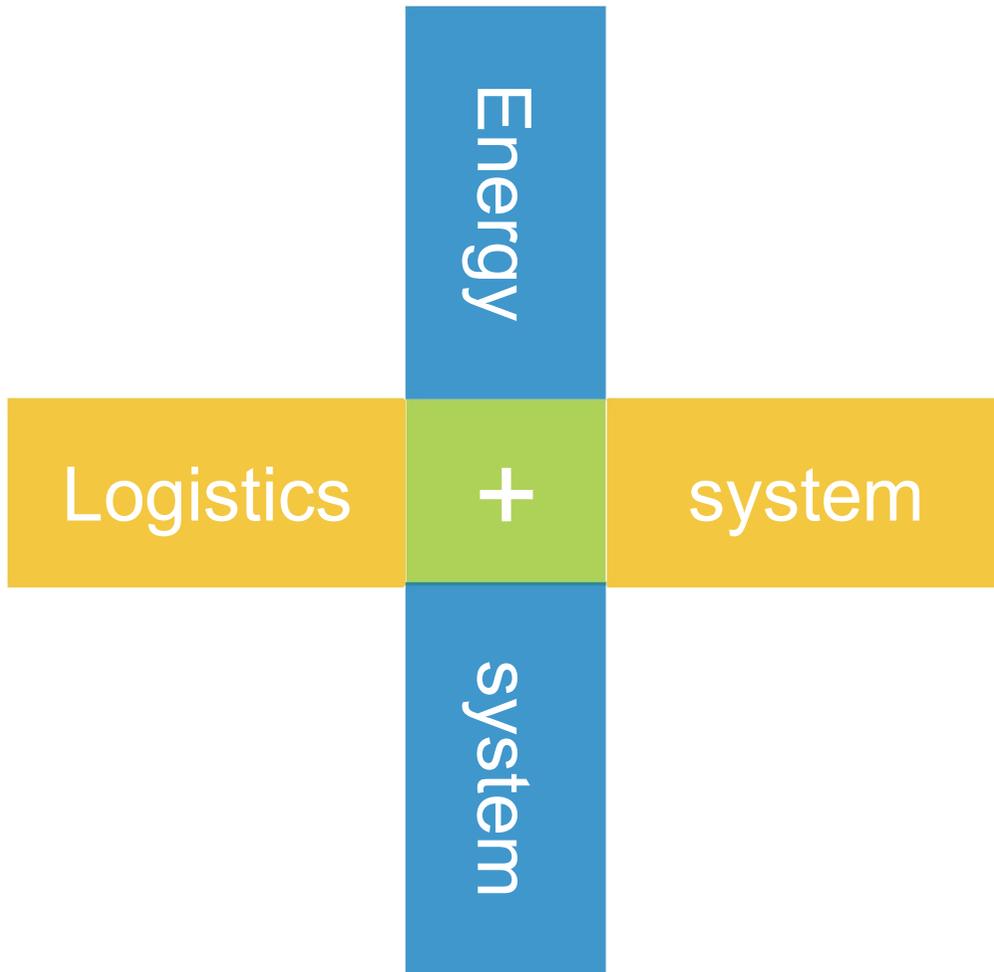


1. Secure physical infrastructure

- Capacity for electrification and new businesses (grid management)
- Shoreside & landside power supply
- Green fuels for lorries, trucks, trains and vessels
- Terminal, road and railway adjustments for long and heavy vehicles
- Quays for future sea levels and weather conditions



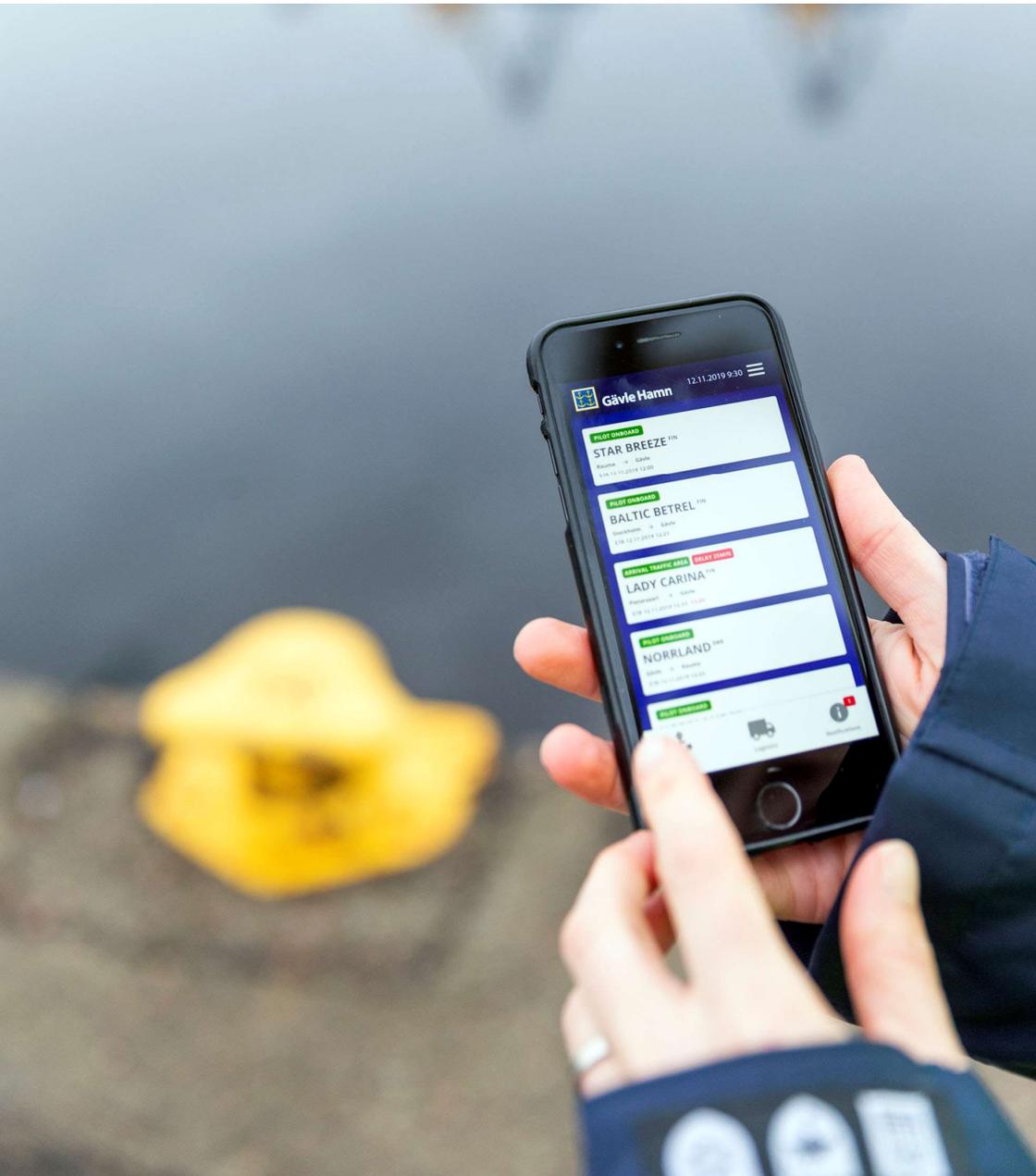
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2. Develop the port as a hub for renewable energy

- Smart energy systems to save and reuse energy
- Energy production
- Energy storage
- The port as a hub for hydrogen in a regional system





3. Develop efficient port processes for sustainability

- Digital tools for information sharing (vessel call process)
- Port traffic management (time slots, queue management etc.)
- Digital fairway and digital land infrastructure
- Develop port regulations and agreements
- Nudging with port tariffs
- Procurements and purchase
- Moving cargo from road to sea



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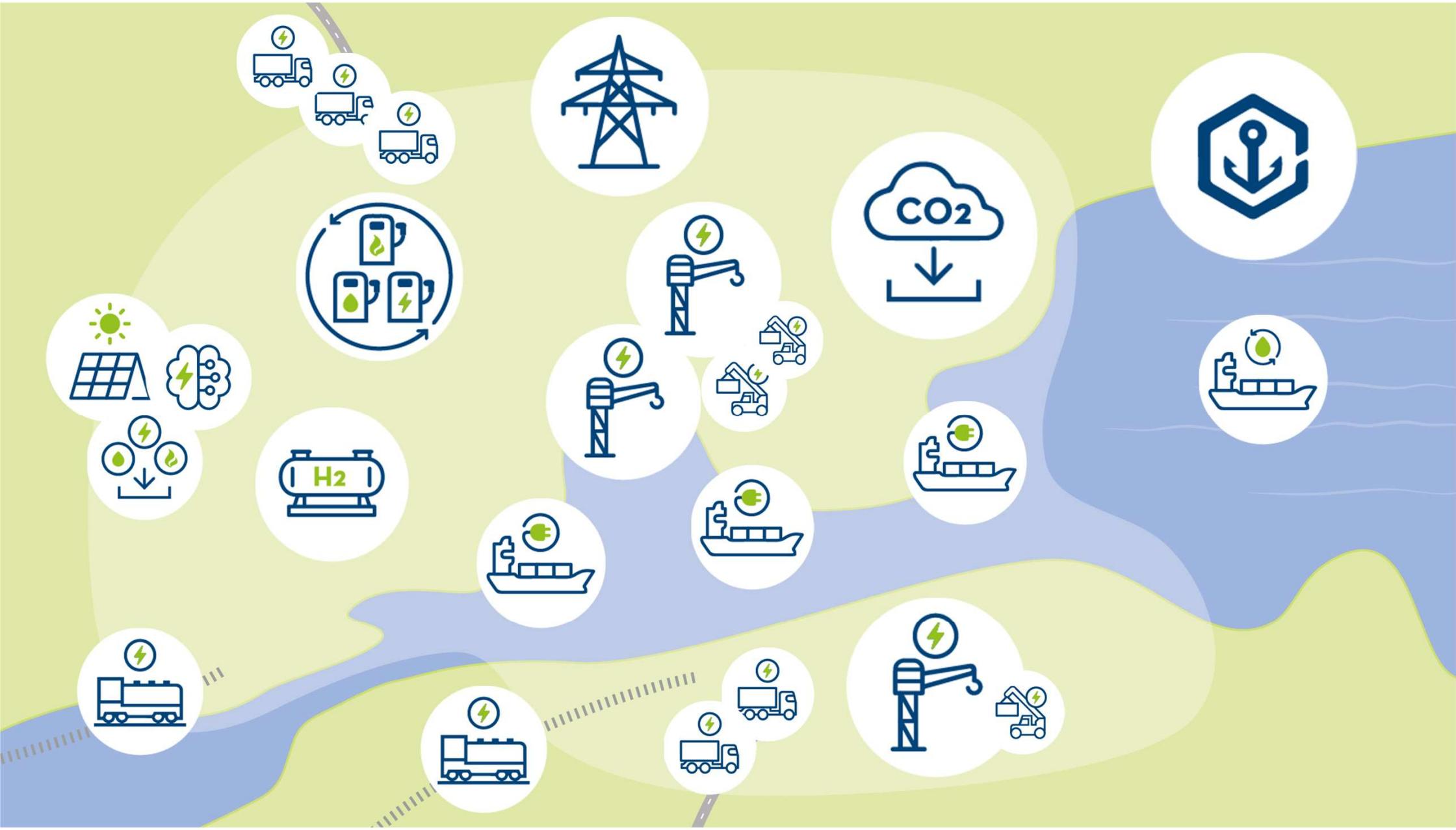


4. Port transformation

- Focus and strategy for tomorrow's logistic hub (role, perspectives, core business etc.)
- Overall governance with processes for KPI's and follow-up
- Future products in the Energy Port (liquid/gas)
- The port's role for Carbon Capture Use & Storage (CCUS)
- Partnerships and new business models



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A satellite night view of Europe, showing city lights in yellow and orange. A dashed white circle highlights the Scandinavian region. A small icon of three anchors is located within this circle.

THANK YOU!



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