



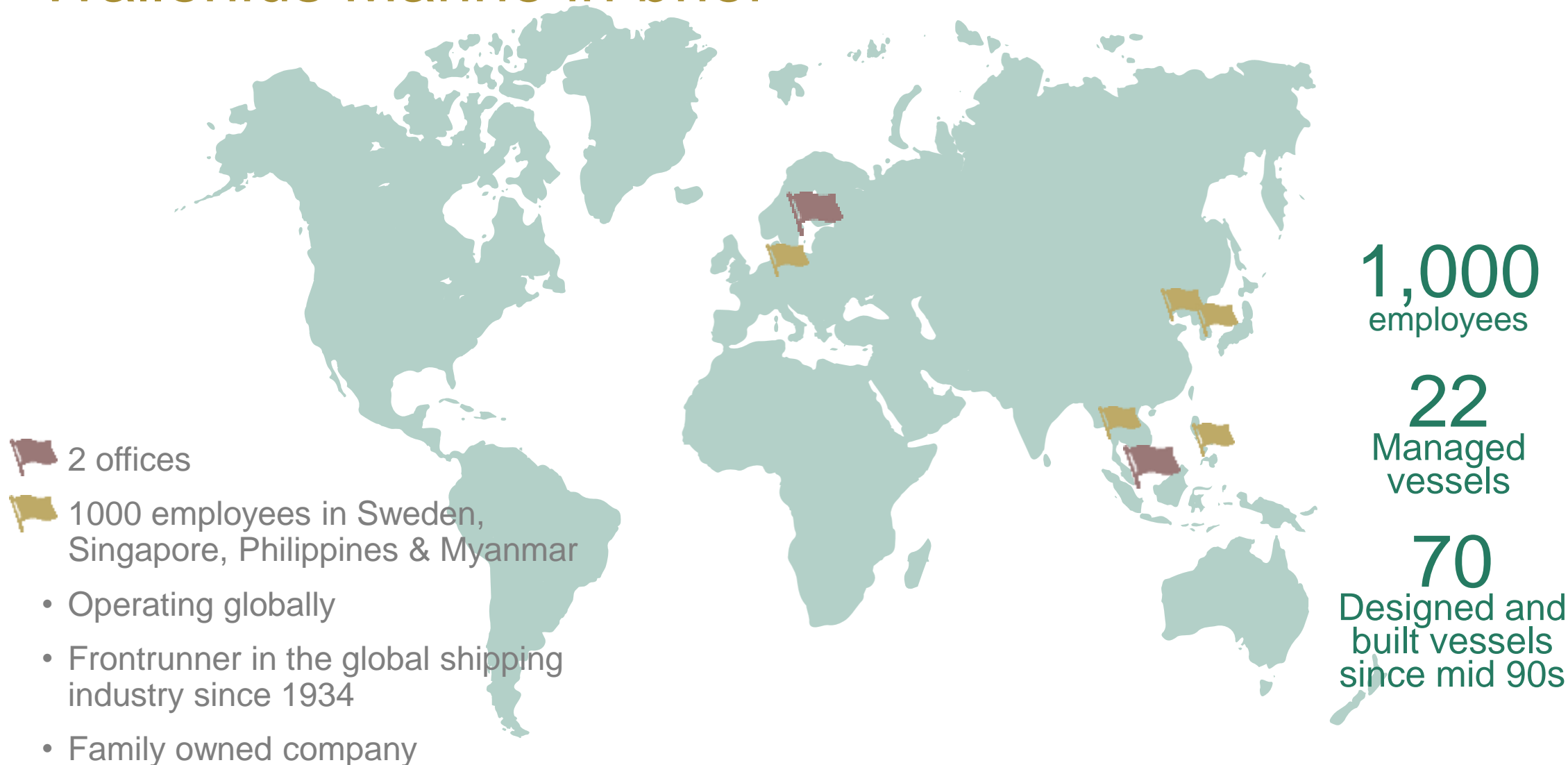
# Wallenius Marine

Leading the way towards truly sustainable shipping

Fairway Forward,  
Towards truly sustainable shipping

Per Tunell   
COO, Wallenius Marine

# Wallenius Marine in brief



Our vision:

“Leading the way towards truly sustainable shipping”





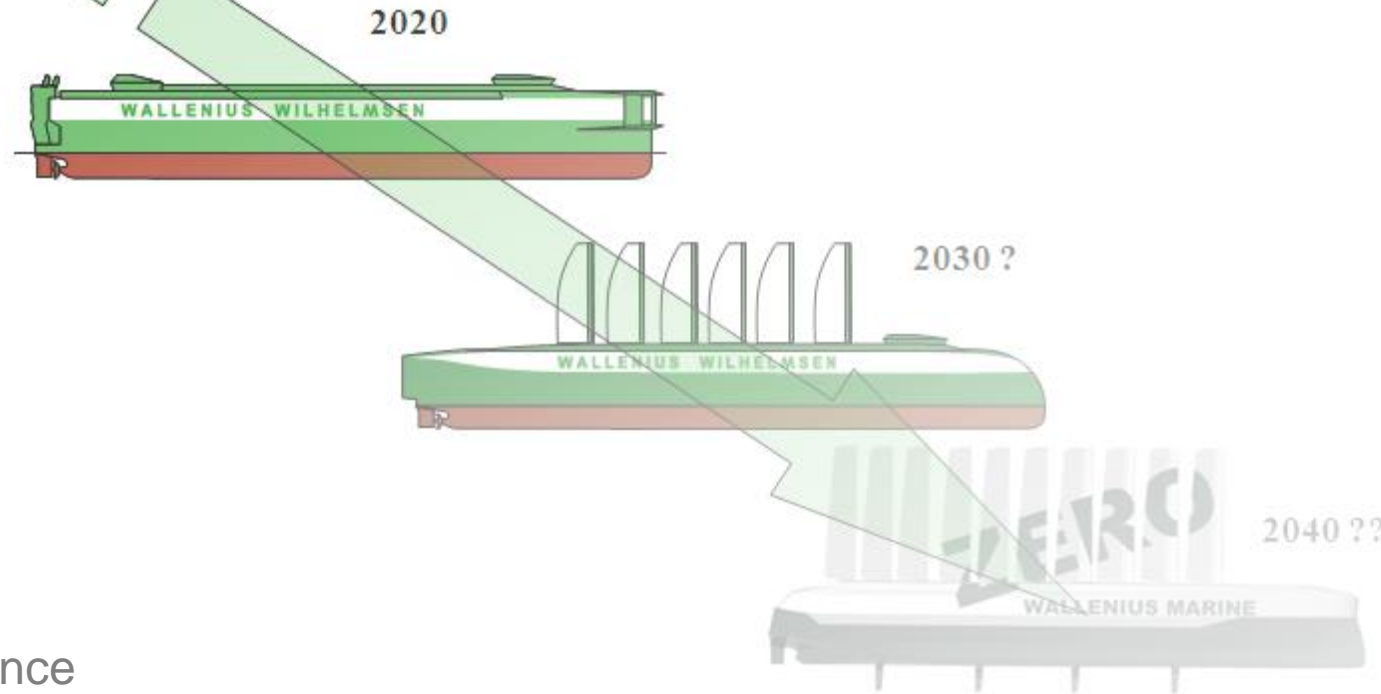
# ZERO (Zero Emission ROro)



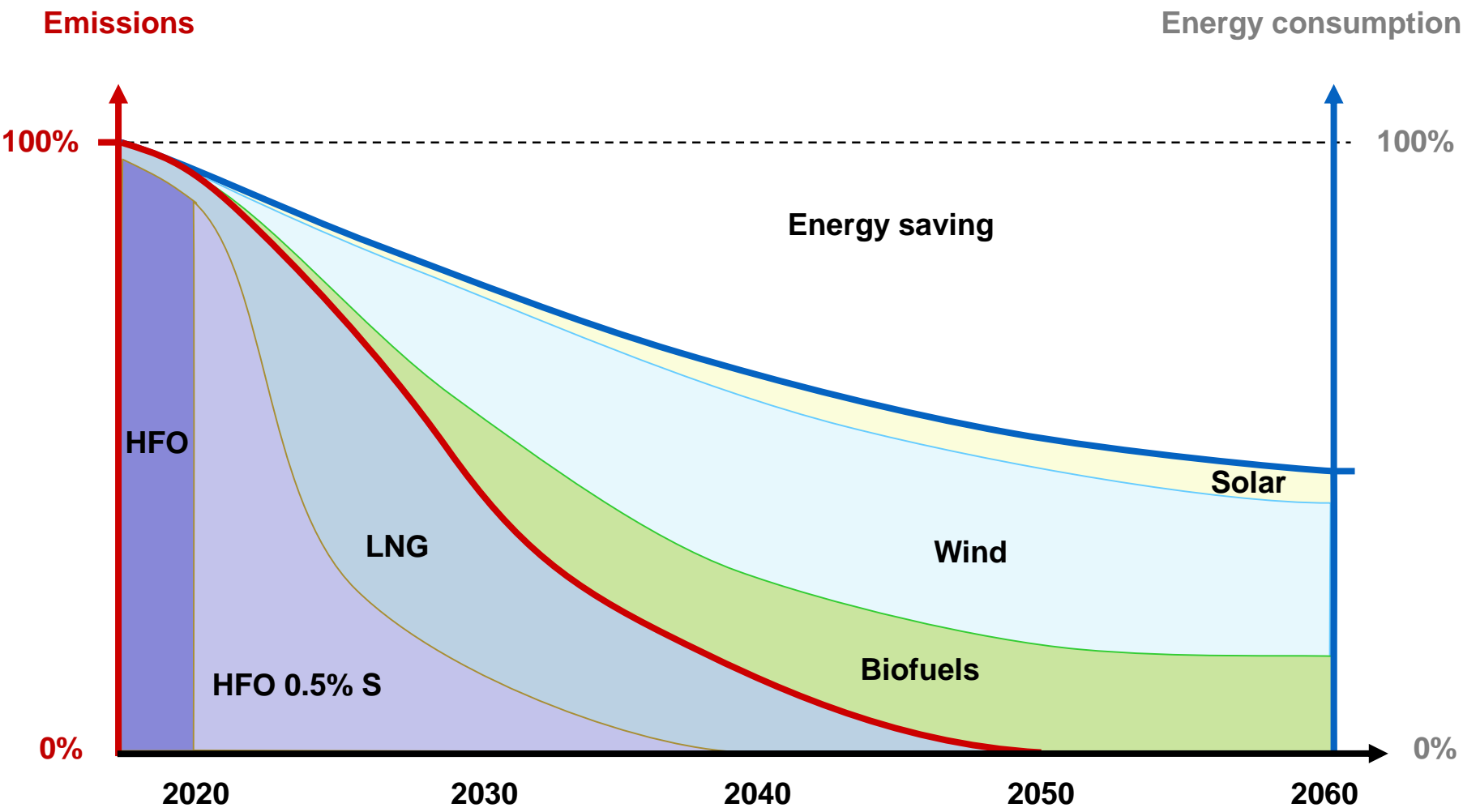
Roadmap towards the zero emission vision  
Basis for our future ship designs

Road map for....:

- operation
- energy carriers
- technology
- Wallenius' ship designs
- energy consumption
- emissions
- Wallenius Marine's competence



# Energy and emissions roadmap – our scenario

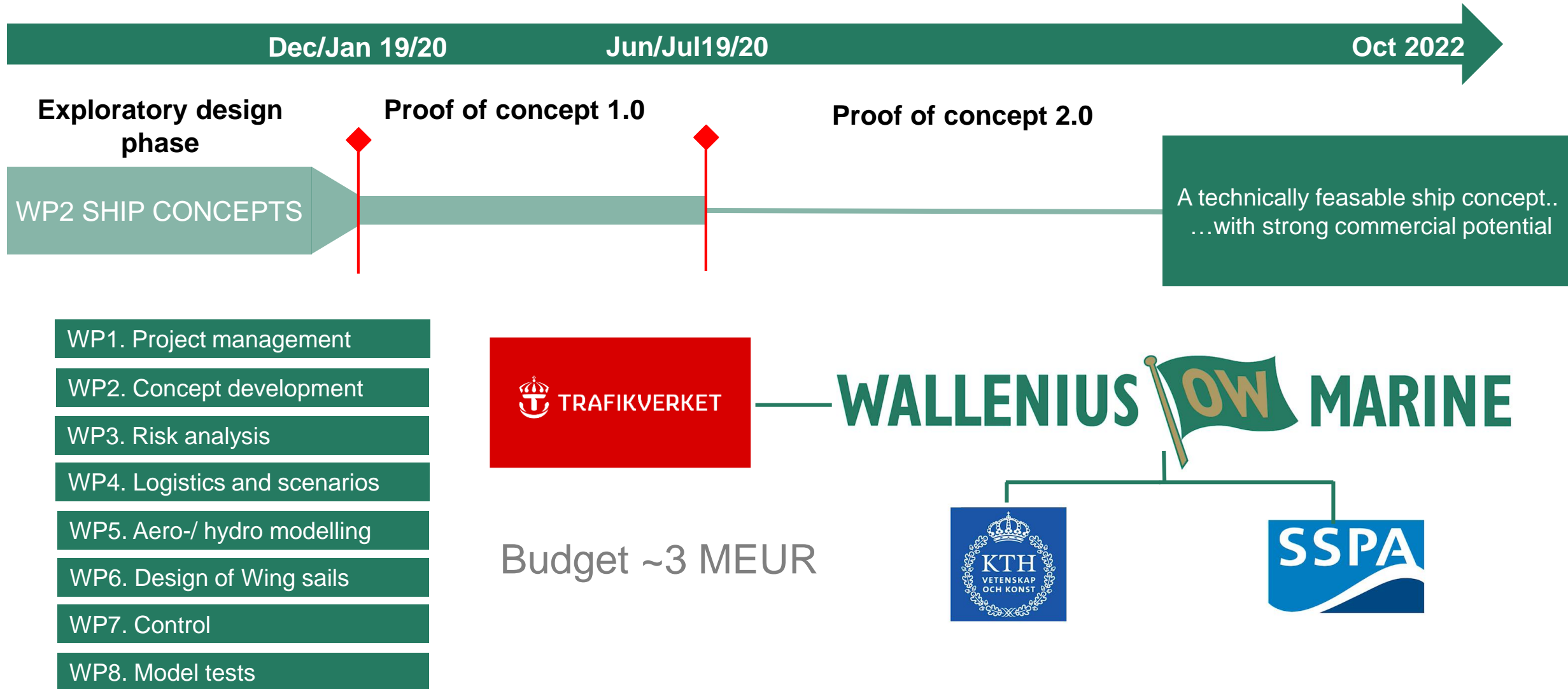


# Challenging the orthodoxies – Changing the game

- Wind as main propulsion
- 10 knots average speed
- 90% less emissions
- Concept development
- R&D-funding from Swedish Transportation Administration
- Ready to order by 2021/22



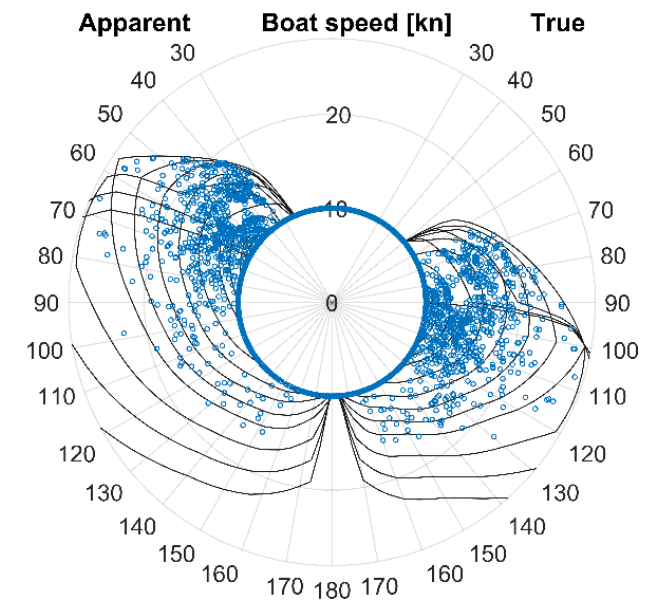
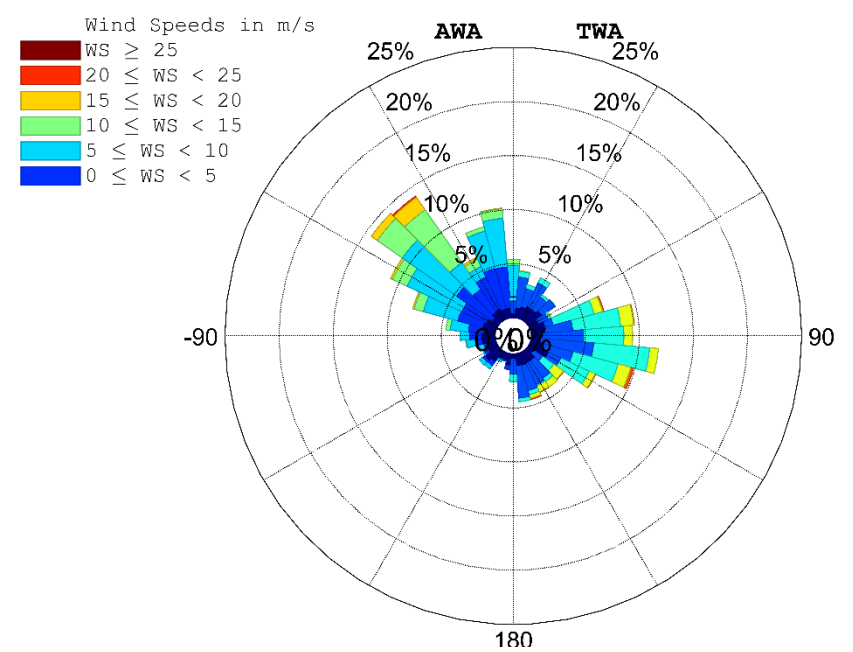
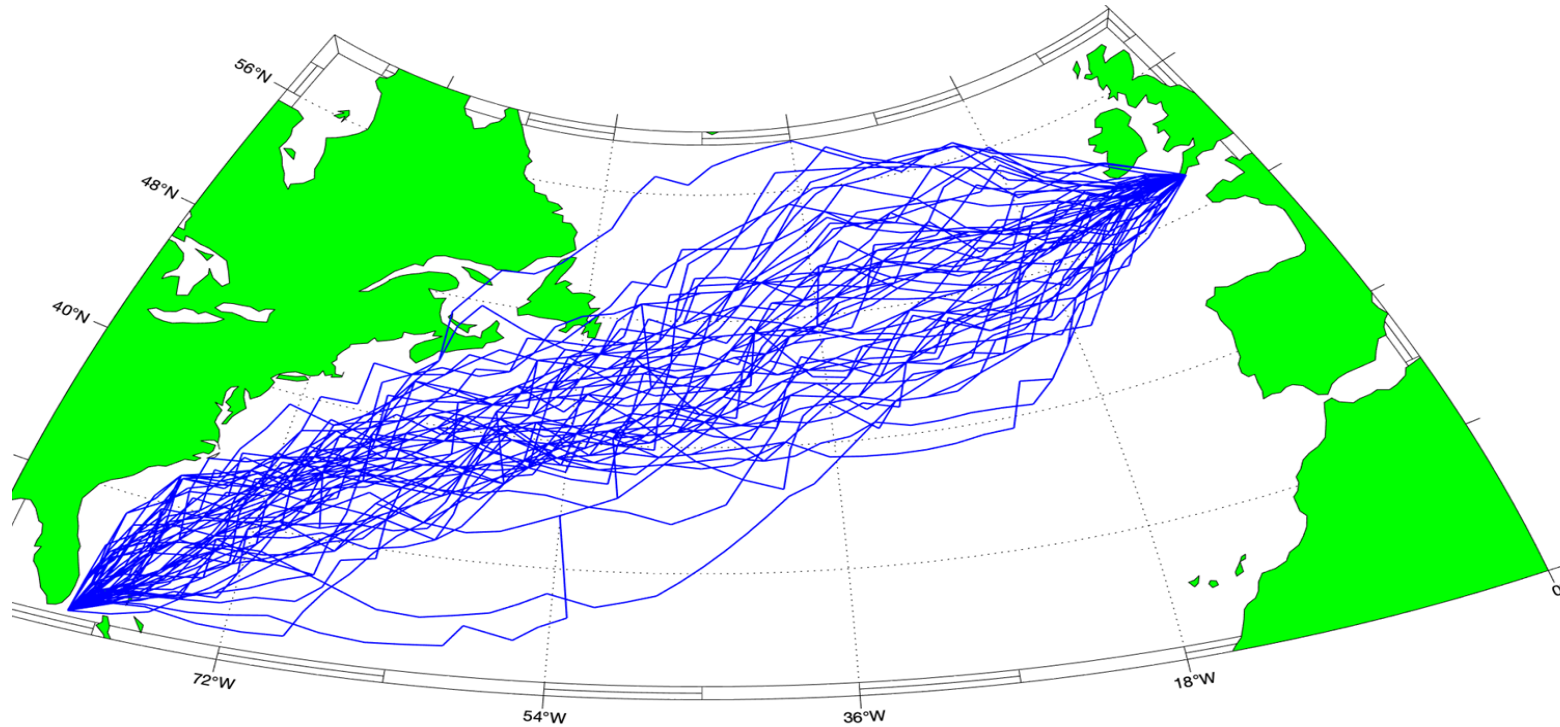
# Process wPCC research project





# Aero modelling

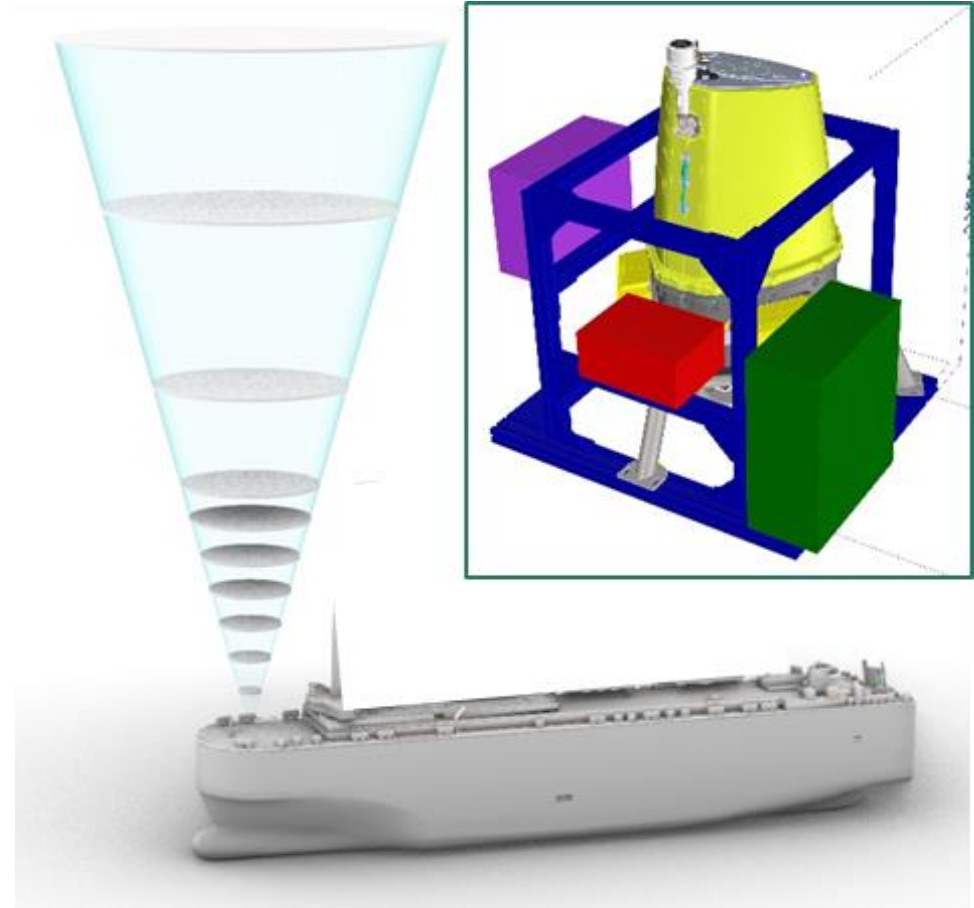
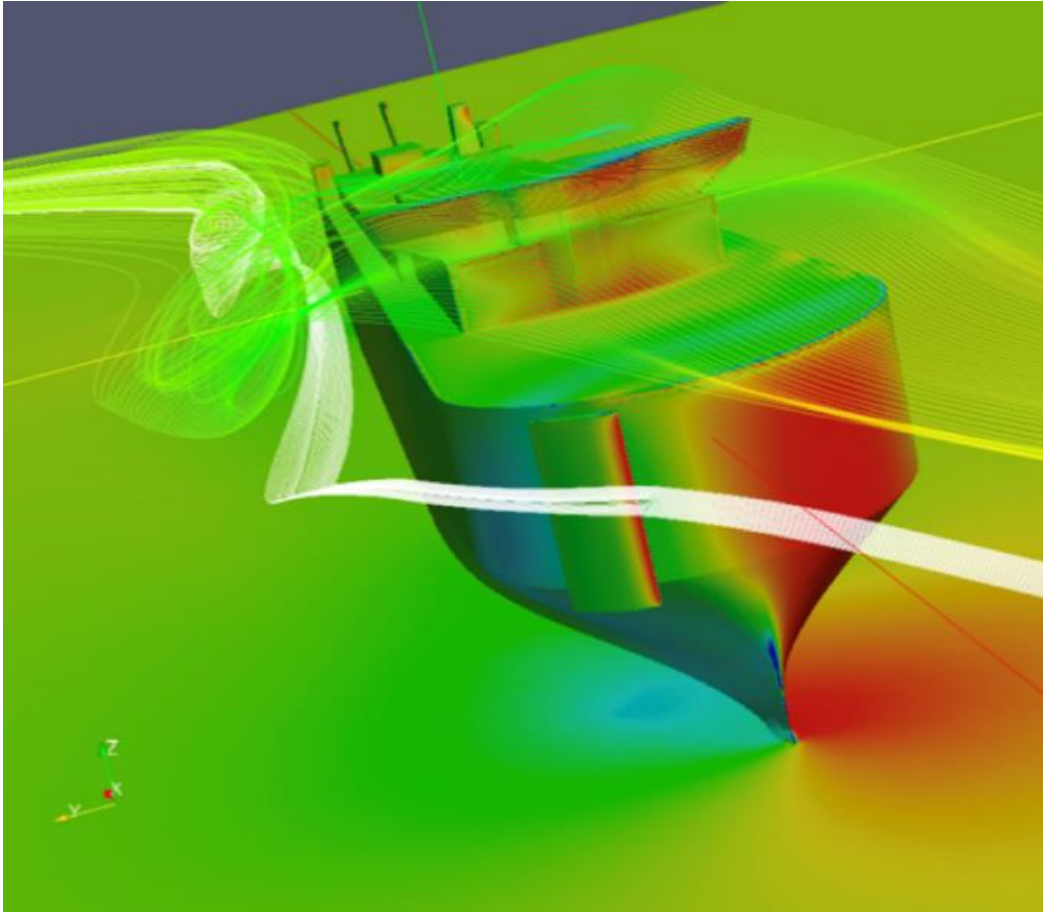
- Based on historical data





# Aero modelling

- Gathering more information



# Challenging the orthodoxies

- What happens after the research project?

- Plans for realization
- Commercial discussions
- Ambitions to have a vessel in operation by 2025







Leading the way towards truly sustainable shipping

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