MARIN

BETTER SHIPS, BLUE OCEANS

Floating energy and Green FPSOs

Jaap de Wilde

Green FPSOs?

Synthetic Fuel
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H-FPSO
Green Elf
Daewoo

P2X

Ammonia
NYK

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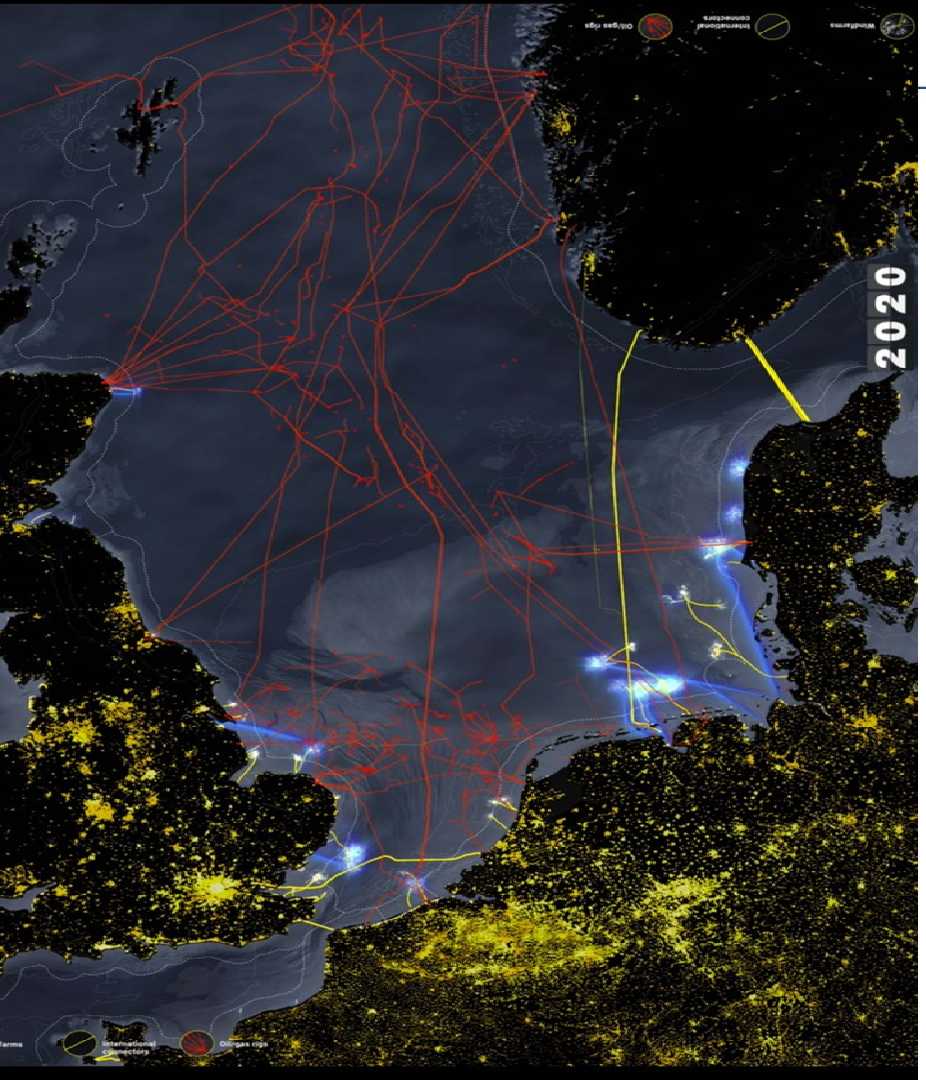
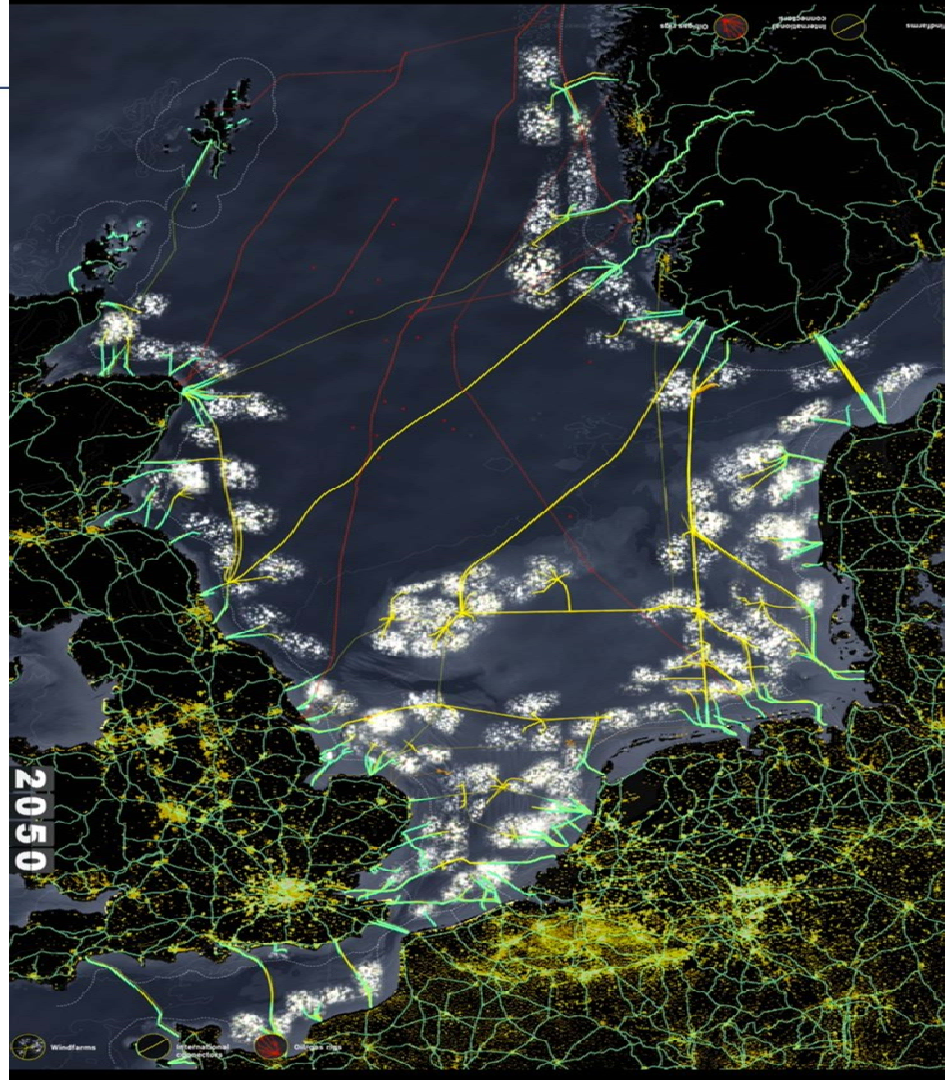
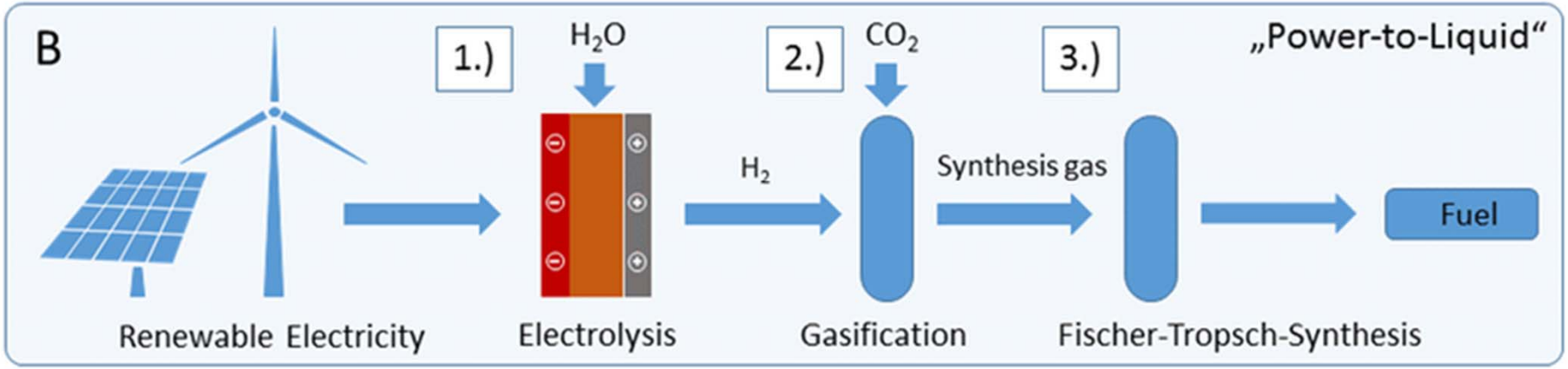

2020

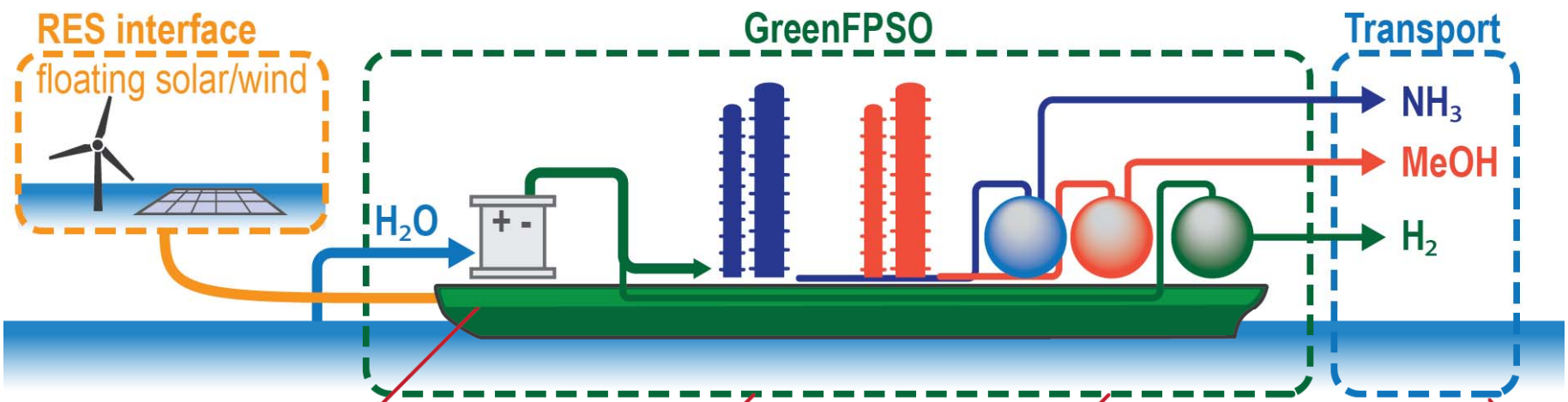

2050

150 FPSO's delivering 5% of energy mix in 2050

Power to liquid



Green FPSO JIP (new)



GreenFPSO Design
(WP1)
- H_2-FPSO
- NH_3-FPSO
- MeOH-FPSO

Concept validation
(WP2)
- CAPEX/OPEX
- Logistics
- Benchmarking

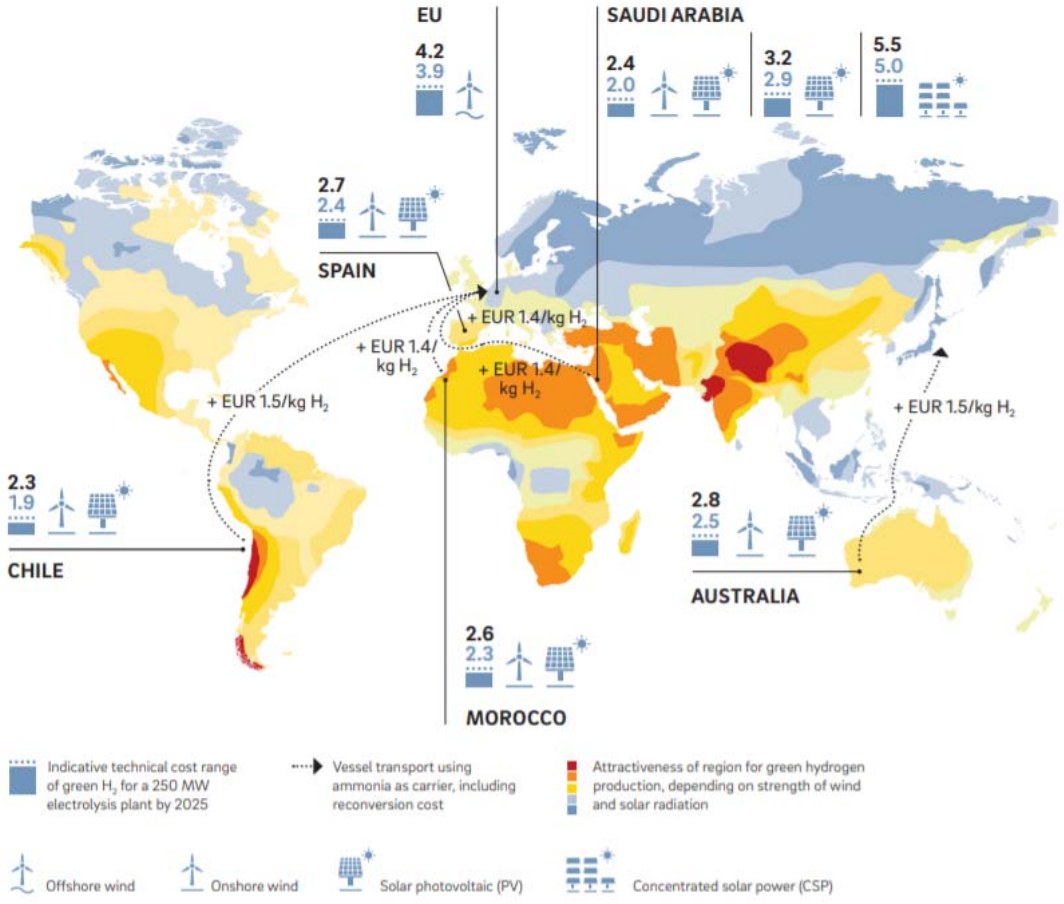
Impact evaluation
(WP3)
- Int. jurisdiction
- Environmental impact

Stakeholder engagement
(WP4)
- H_2/NH_3/MeOH demand
- Market uptake roadmap

Hydrogen market in 2025 (Roland Berger, 2021)

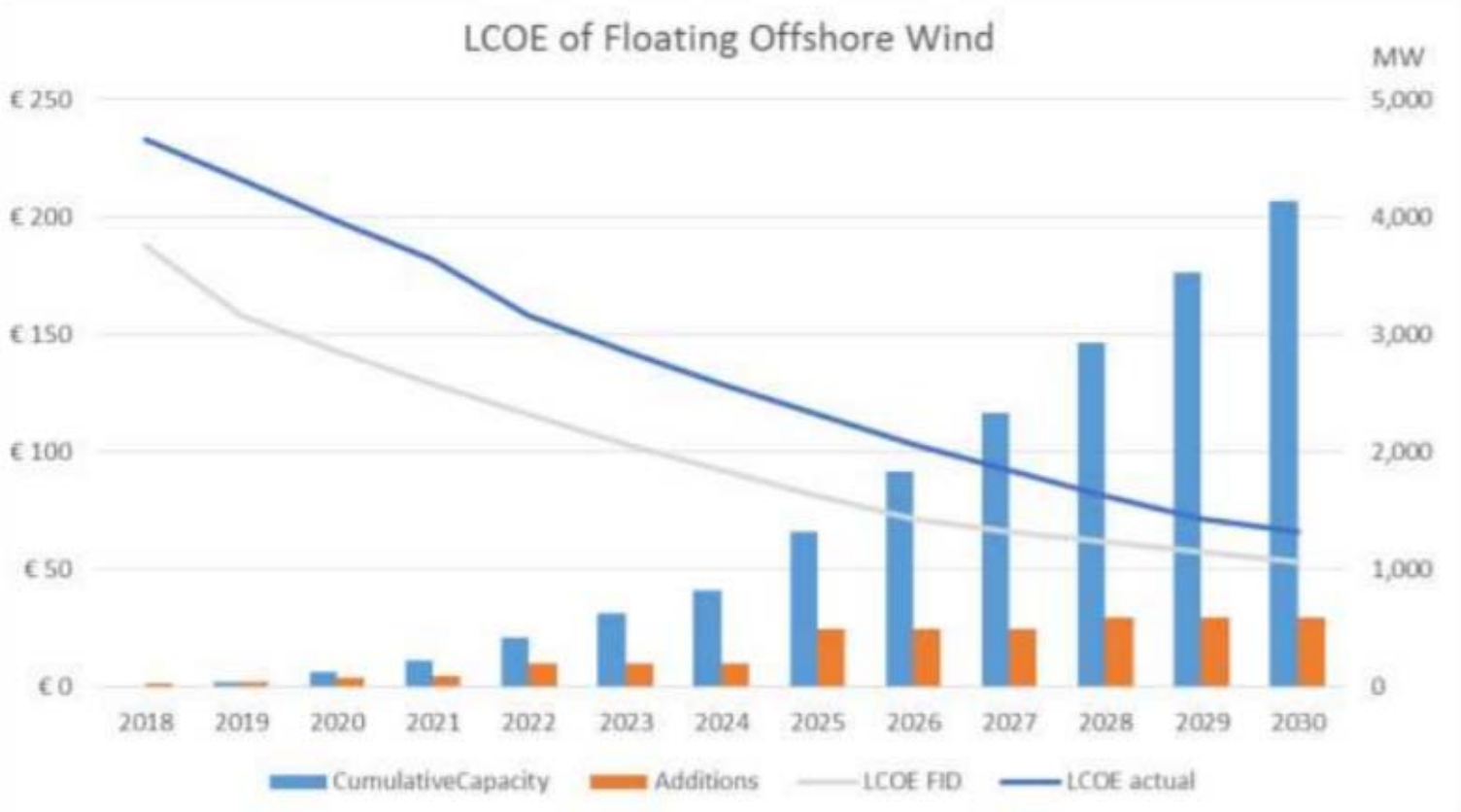
Expected Green Hydrogen Cost onshore:

But what about offshore?

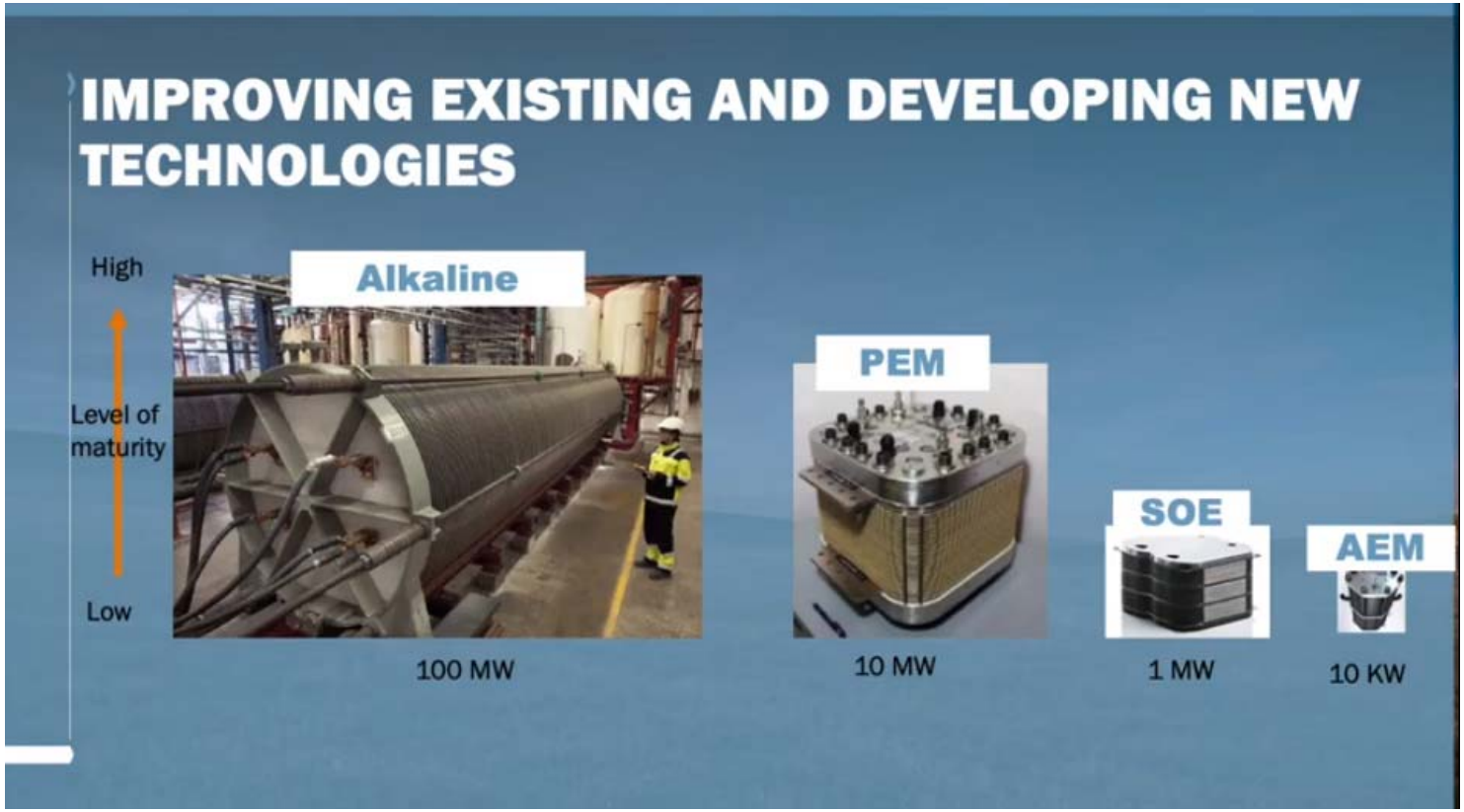


Source: IEA, Roland Berger

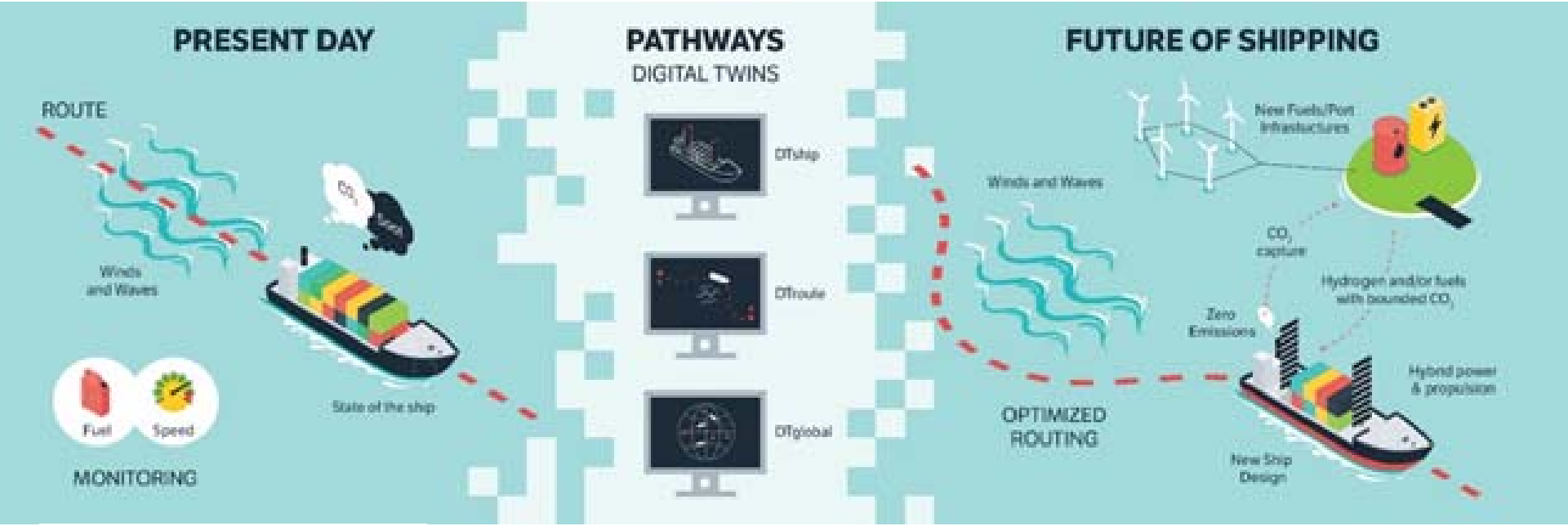
Projected LCOE Floating Wind (Source: WindEurope)



Innovation in electrolyser technology



Zero emission JIP



Thank you for your attention!