



Waterborne Transport



HORIZON EUROPE

Workshop:

“Horizon 2020 Research and Innovation delivering smart, green, safe and competitive waterborne transport”

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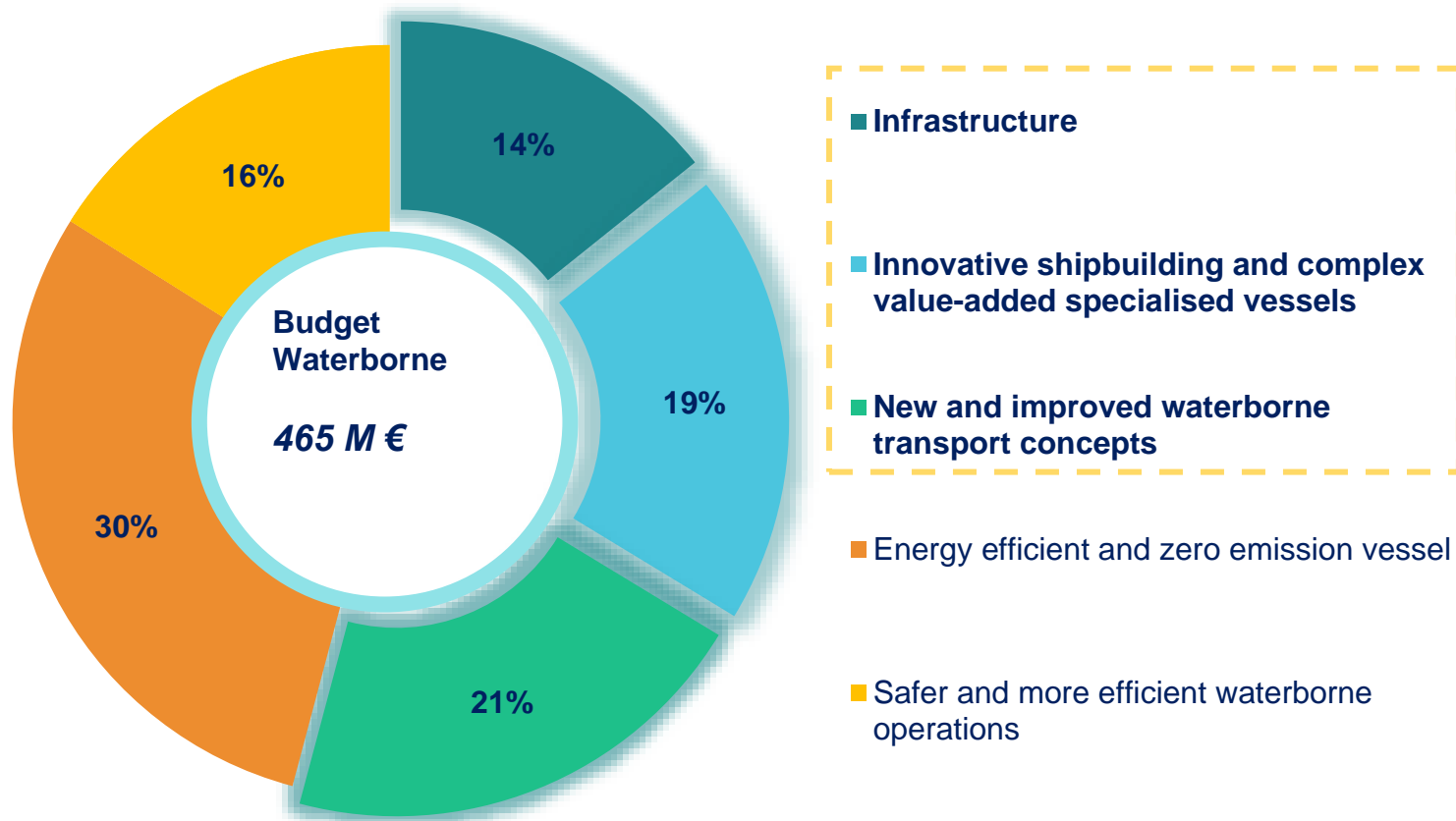
Competitive, Connected and Automated Waterborne Transport

Overview of the projects in the portfolio

07/02/2022 | 13:30—14:15

H2020 Waterborne Portfolio (2014-2021)

Competitive, Connected and Automated Waterborne Transport



- ✓ 29 projects
- ✓ 252 M€
- ✓ 475 beneficiaries

Infrastructure

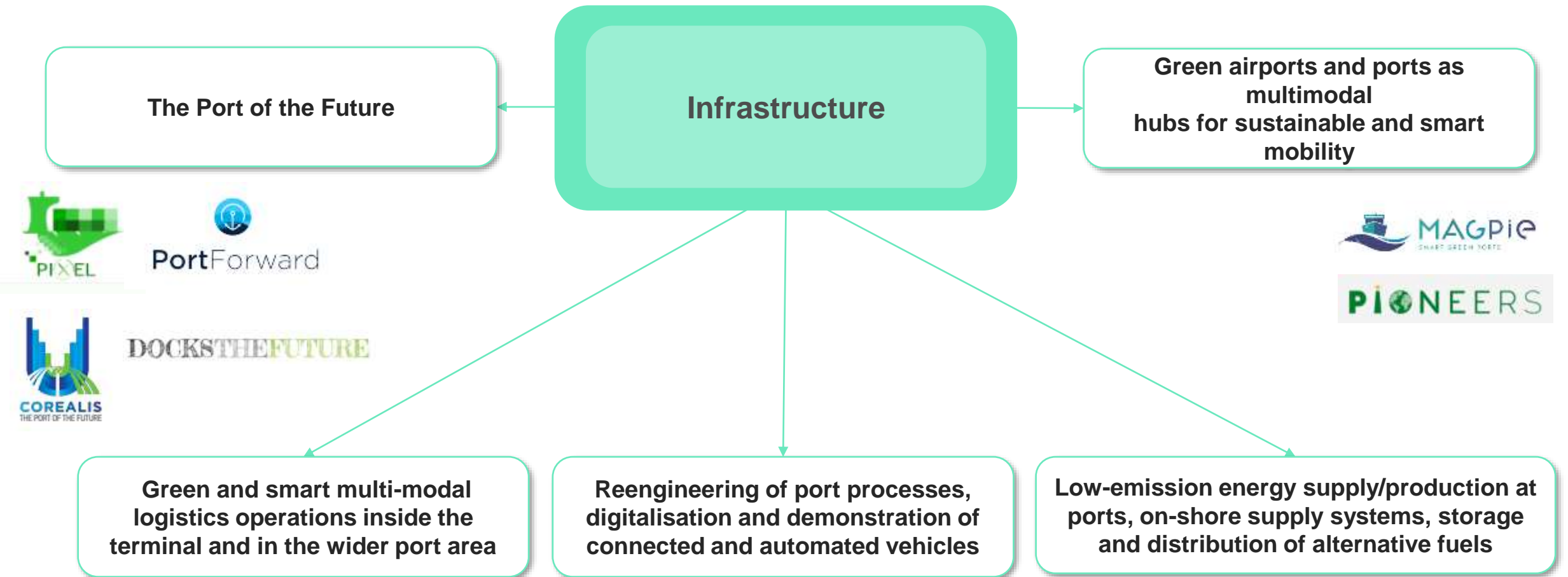
Key challenges addressed under Horizon 2020

Autonomous
Sustainable Ship
Infrastructure
Underwater Vehicles digital Smart Shipyards
Connected Ports Automation and control systems
Inland waterway Robots Intermodality

- ✓ To improve logistics efficiency and **integration of the port** in the surrounding socio-economic area
- ✓ To **optimise passenger and freight flows** for low emission mobility
- ✓ To accelerate the **deployment of sustainable alternative fuels and electromobility**
- ✓ To commit and contribute to a **Europe-wide take up** of technological, non-technological and socially innovative solutions

Infrastructure

H2020 Waterborne Portfolio



New and improved waterborne transport concepts

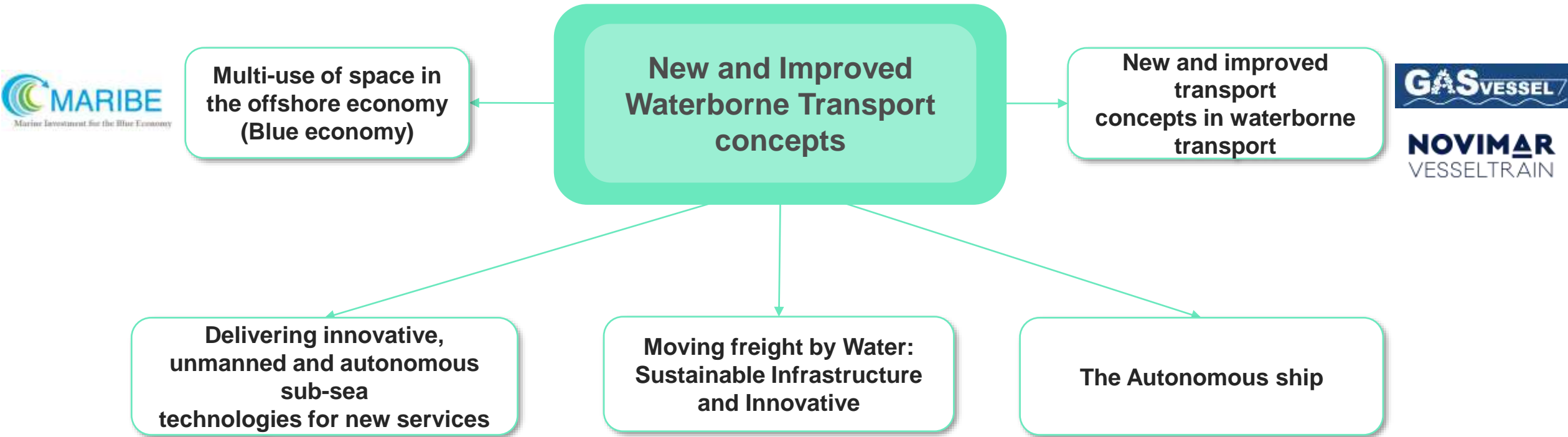
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- ✓ To develop validation, certification and safety assessment methodologies and tools to support **autonomous ships**
- ✓ To improve maritime and inland waterways **logistics operations** and enhancing modal shift concepts for freight transport.
- ✓ To **deliver improved systems for waterborne operations**, feeding and short sea vessels, with regard to **smart connections**
- ✓ To develop and demonstrate **autonomous vehicles** for under-sea services and surveillance

New and improved waterborne transport concepts

H2020 Waterborne Portfolio



Innovative Shipbuilding and complex value-added specialised vessels

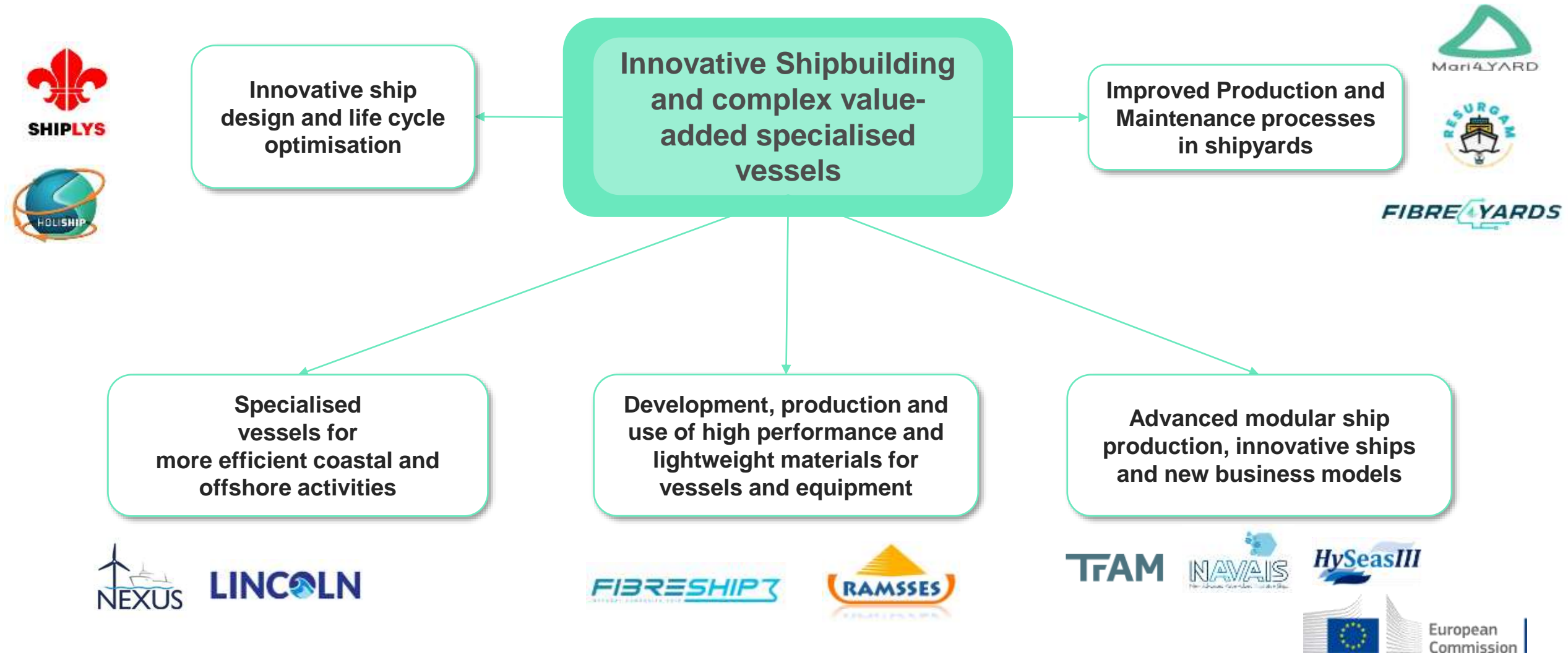
Key challenges addressed under Horizon 2020

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- ✓ To provide a comprehensive performance analysis and simulation for **new advanced materials** and entire constructions
- ✓ To develop and validate **advanced modular standardised shipbuilding** concepts for European waters (urban, inland waterways and short sea)
- ✓ To increase the **professional skills** of workers and the capability of European shipbuilding industry to **develop and commercialise specialised vessels** and related technology
- ✓ To explore and validate low impact cruise and passenger **ship designs and operations**

Innovative Shipbuilding and complex value-added specialised vessels

H2020 Waterborne Portfolio



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Thank you



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