



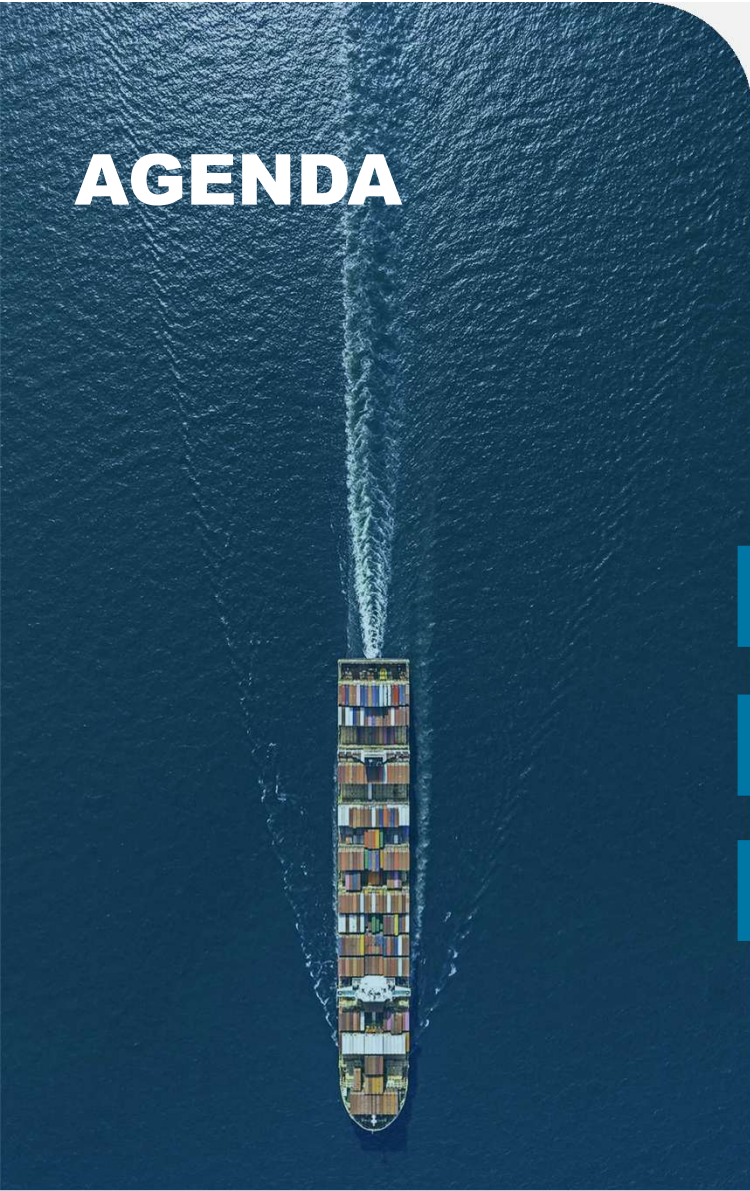
Energy Efficient Design for a Changing Market

October 2026

Our experience. Your growth.



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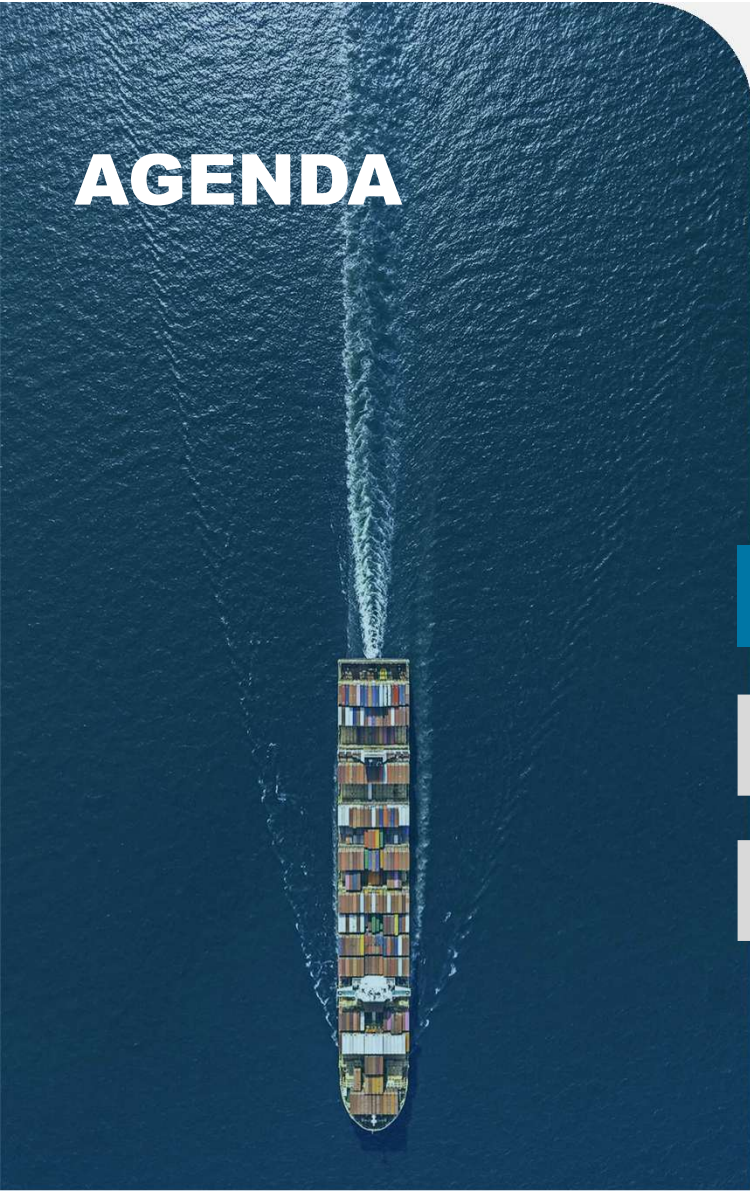


Greek market today and pressure points

New ferry concept

Foreship overview

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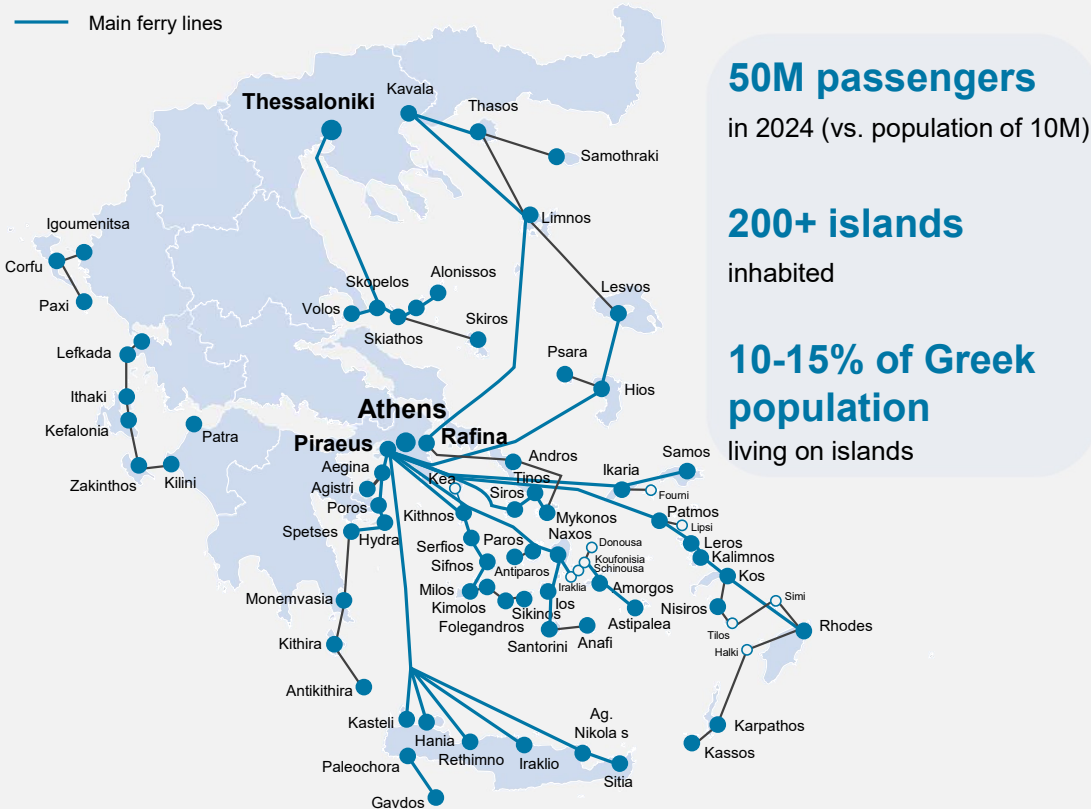
Foreship overview

Ferries are key to connect the Greek country, but an ongoing transformation must be confronted



Greek ferry market has huge scale and strategic importance in connecting the country...

...but faces key challenges on demand and supply



• Demand

- Passengers increasingly expect **modern, high-comfort and sustainable** vessels
- **Rising vehicle traffic** on island routes characterized by short to medium routes
- High **seasonality** with fluctuating demand



• Supply and regulatory push

- **Aging fleet** (avg. age of ~30 years)
- **Increasing and uncertain Opex** from emission cost and fuel-price volatility

Fleet renewal required with a modern concept addressing key pressure points

A grant plan will be available in Greece for new green ferries



Greek Pax Fleet Renewal Masterplan

What it is

- Greek **national decarbonization plan** for the **passenger ferry** sector
- Aim to **renew the ferry fleet** and **reduce emission**
- Provide **grants** for **new green ferries** construction and retrofits

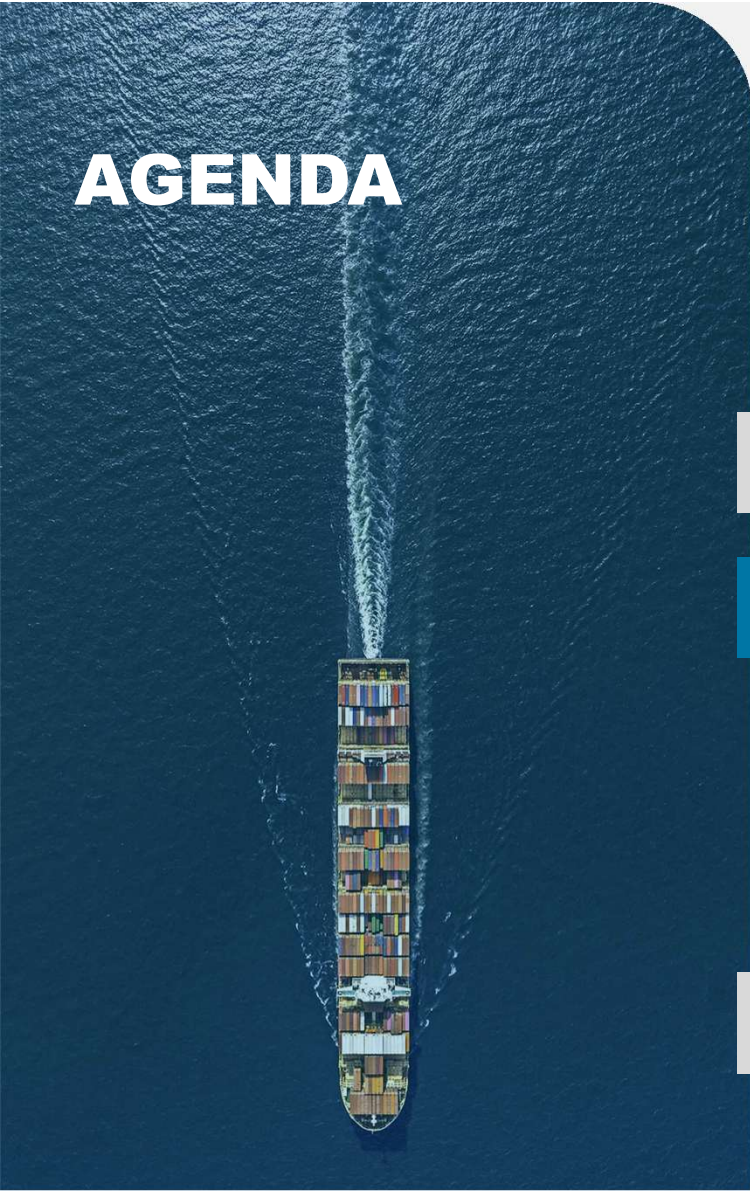
Status

- Master Plan **approved** by the Ministry
- Funding scheme **deployment under development** – First calls expected from 2027

Foreship end to end support

Foreship can be the **trusted partner** in navigating the **Greek Fleet Renewal Master Plan** – Support from grant approval to vessel design, construction and delivery

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Greek market today and pressure points

New ferry concept

– Highlights

– Technical deep dive

Foreship overview

A new Ro-Ro Pax concept maximizes owner returns through efficient OpEx and higher occupancy



Segment:

- Ro-Pax

Ferry specifics

- 11,500 GT
- Up to 1,540 passengers
- Up to 331 cars



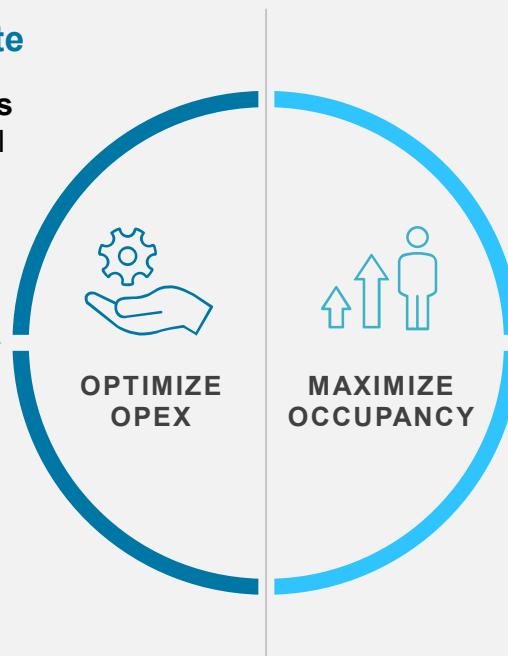
New concept highlights—Benefits for the owner (tailored to the Greek market)

Efficiency on typical Greek route

Optimized for **short-to-medium routes** and **high-frequency port calls**, typical of the Greek market

Low emission cost

Hybrid power plant (e.g. methanol, BESS as option) cuts emissions and fuel costs



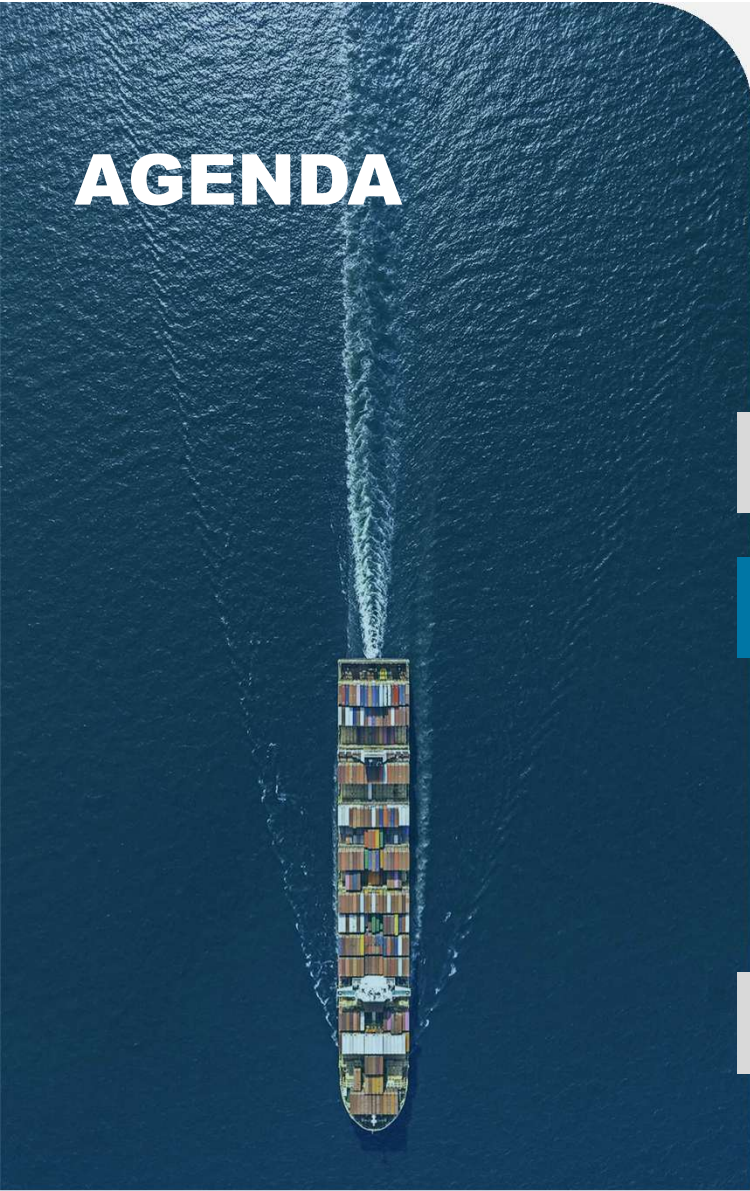
Optimized sellable space

High General Arrangement **flexibility**, with space destination to be **personalized based on route** (e.g. day option with more vehicle capacity, night option with more cabin)

Vessel of choice for customer

Passenger-centric layout enhances flow, comfort, and accessibility, positioning it as the preferred vessel

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Baseline General Arrangement



Main dimensions

- LoA – 124 m
- Beam, moulded – 20.5 m
- Design draught – 4.90 m
- GT – 11,500
- Service speed – 19 kn
- Max cap. (LSA) - 1,580

Safety

- SOLAS 2020 Damage stability
- Euro SOLAS class A



MAIN DIMENSIONS	
Loa	124.00 m
Lpp	112.90 m
Beam, moulded	20.50 m
Draught, design	4.90 m
Draught, subdivision	4.95 m
Depth to bulkhead deck	7.20 m
Depth to Deck 5	12.90 m
Gross tonnage	11,500
Deadweight, design	1,800 t
Service Speed	19.0 kn
Max. persons (LSA)	1,580
Damage Stability	SOLAS 2020
Class (Euro-SOLAS)	A
Safe Return to Port (SRtP)	yes

LSA EQUIPMENT (Short International)	
Marine Evacuation System	2 x 500 p
Semi-enclosed lifeboats	4 x 150 p
Fast rescue boats	1
Combined life / rescue boat	1

PASSENGER SPACES & CABINS	
Forward lounge, deck 6	670 seats
Restaurant, deck 6	70 seats
Aft Café lounge, deck 6	200 seats
Shaded outside area, deck 6	150 seats
Shaded outside area, deck 7	450 seats
TOTAL SEATS	1,540 seats
Passenger cabins, std. (option)	11 (128)
Crew Cabins	
Captain class cabin, 17 m ²	2 cabins
Owner's cabin, 15 m ²	1 cabin
1 berth cabins 12 m ² & 7.5 m ²	1 + 6 cabins
2 berth cabins 7.5 m ²	15 cabins
TOTAL BERTHS	40 berths

PASSENGER AND CREW GEAR	
Aft passenger escalators	
One passenger / service lift	
Stern ramp for passengers	

CARGO CAPACITY	
Trailer lanes, deck 3	466 m
Trailers (17m), deck 3	23 pcs
Car lanes / cars, deck 3	639 m / 121
Car lanes / cars, deck 5	588 m / 112
Car lanes / cars, total	1,227 m / 233
With hoistable car deck (option)	
Car lanes / cars, deck 4	+523 m / +98
Cars, total	233 → 331
With full cabin deck (option)	
Car lanes / cars, deck 5	-588 m / -112
Cars	233 → 121
Cars, with hoistable	121 → 219

CARGO GEAR	
Stern ramp	9.8 m x 11 m
Stern ramp to deck 5	9.8 m x 2.7 m
Fixed ramp to deck 5	8', width 2.7 m
Applied car length	5 m

MACHINERY	
Main Engines	2 x 4,400 kW
Auxiliary Engines	2 x 1,000 kW
Shaft gen. (PTI ready)	2 x 1,000 kW
CP propellers	2 x Ø3.5 m
Oil Fired Boilers	2
RO for technical water	1
Fin stabilizers	1 pair
Bow thrusters	2 x 900 kW
Anti-Heeling System	1
Rudders	2 x TLE + flap
Dual-Fuel (MeOH) readiness (space res.)	
BESS readiness (space reservation)	
PTI readiness	

OPTIONAL FEATURES	
Bow door with tiltable ramp	
Hoistable car deck (deck 4)	
Full passenger cabin deck 5	
Category B + redundant propulsion (no SRP)	

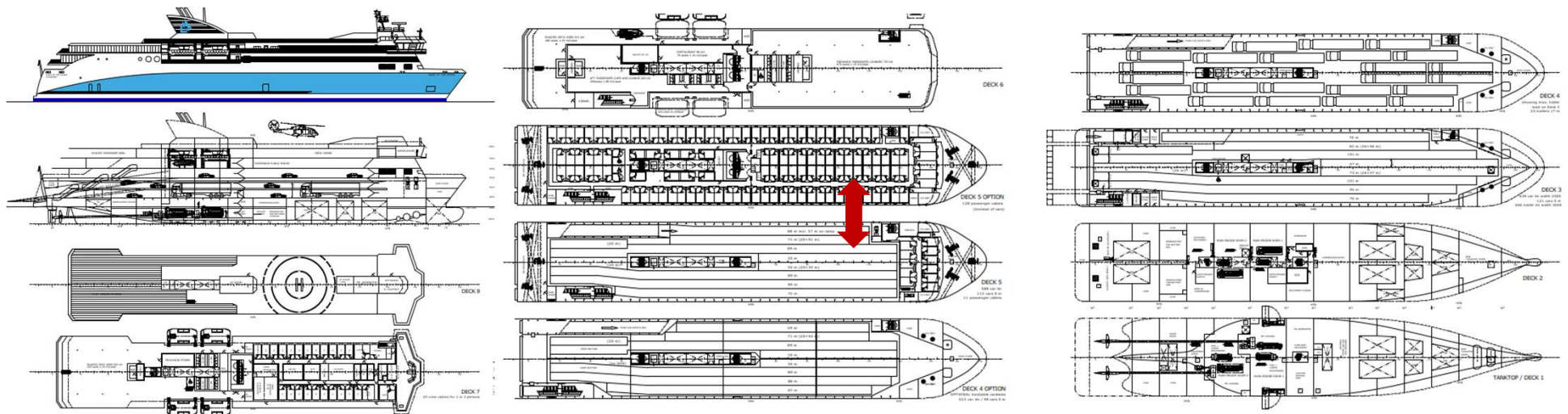
Passenger spaces

- Forward lounge
- Restaurant
- Aft café lounge
- Shaded outside area on deck 6 and deck 7
- Cabins 11 (128)

Cargo capacity (std)

- Trailers – 23 pcs and 112 cars
- Stern ramp
- Stern ramp to deck 5

Baseline General Arrangement

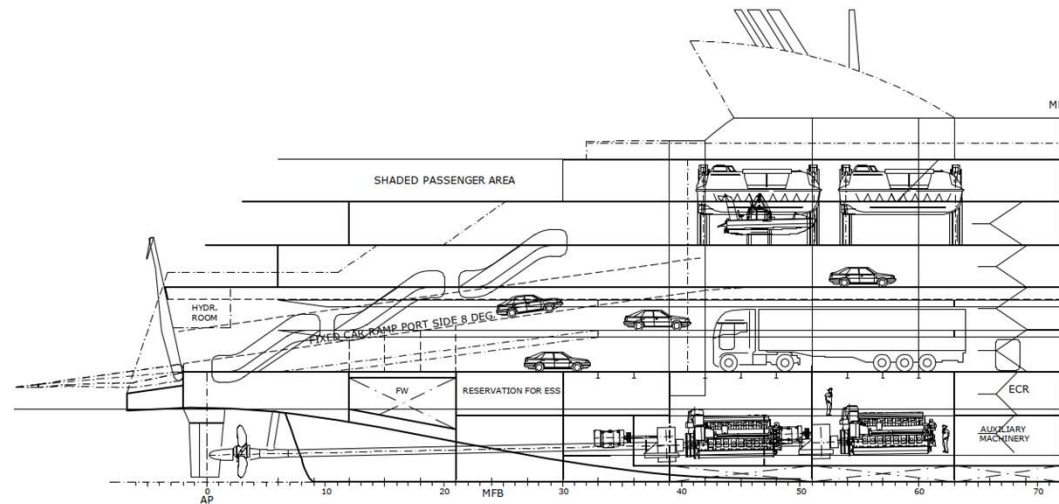


Baseline General Arrangement



PAX and crew gear

- Aft passenger escalators
- One passenger/service lift
- Stern ramp for passengers



Machinery

- M/E – 2 x 4,400 kW
- Aux. eng. – 2 x 1,000 kW
- PTO – 2 x 1,000 kW
- CPP - 2 x Ø3.5 m

The concept is characterized by high flexibility and design options



1

Deck arrangement & access



- Deck 5 configurable for day option (additional car spaces) or night option (additional passenger cabins) *Focus next*
- Hoistable car deck (233 → 331 car capacity)
- Bow door with tiltable ramp

2

Propulsion & fuel



- MeOH dual-fuel readiness (methanol tanks reservation as standard)
- Hybrid propulsion with increased installed power as option
- Optional engines for higher service speed

3

Energy & safety

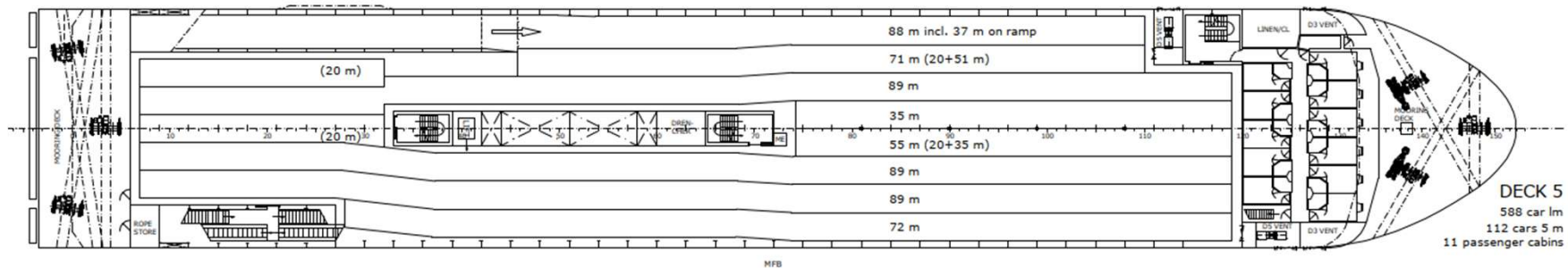


- Scalable battery energy storage with PTI/PTO for peak shaving and zero-emission operation as option
- Category B with redundant propulsion (no SRtP) with reduced CapEx

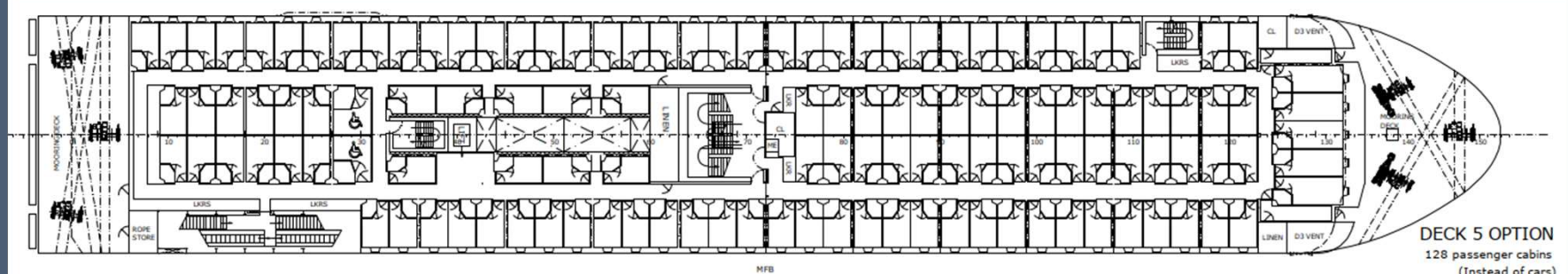
Deck 5 option: Passenger Cabins or Car Deck



A Day option: 112 cars + 11 passenger cabins



B Night option: 128 passenger cabins



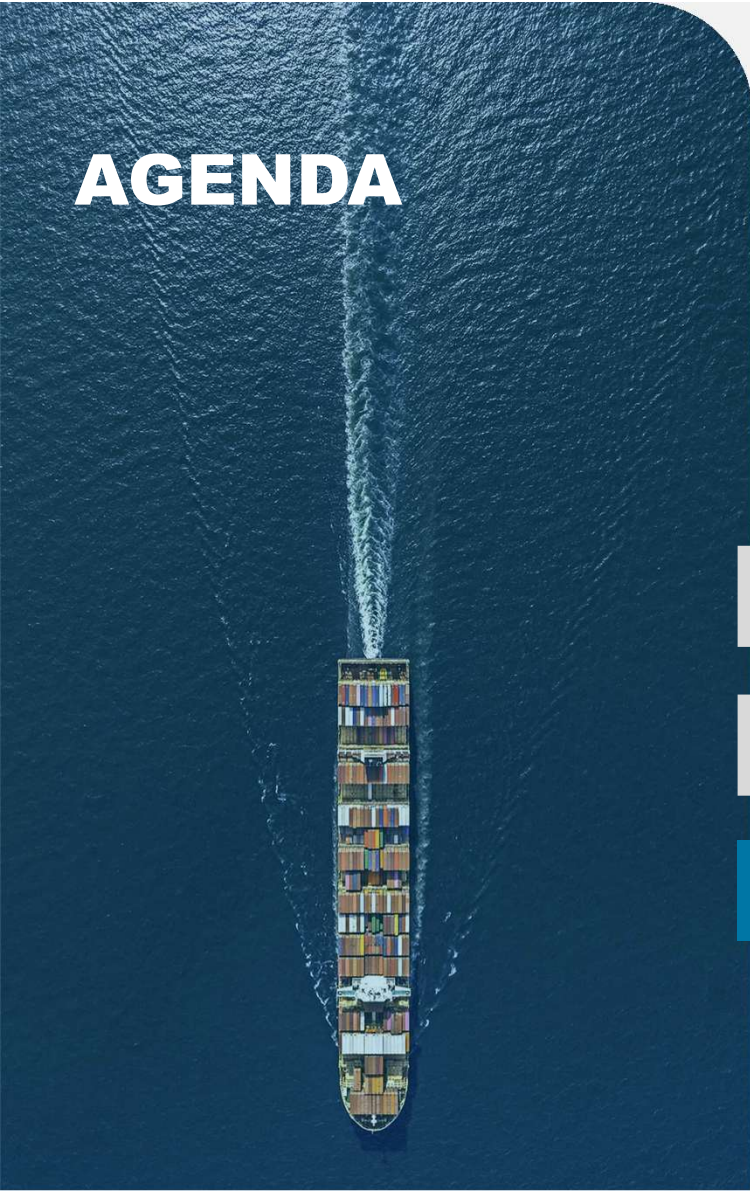
Renderings



Renderings



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Foreship overview

Naval architects, marine engineers & decarbonisation specialists



— FORESHIP WORLDWIDE PRESENCE —

Independent naval architecture, marine engineering & decarbonisation consultant

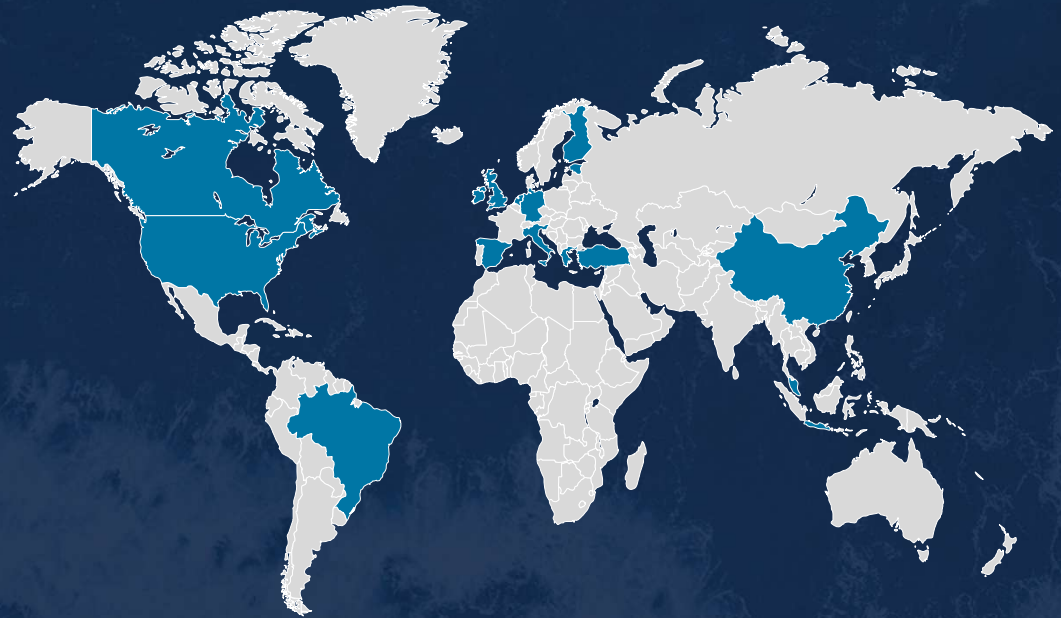
Founded in 2002 ~200 employees

Our clients are Ship Owners & Operators,
Shipyards, & Maritime Suppliers

Know-how and experience in all vessel types,
leader in passenger vessel consulting services

Energy efficiency, future technologies,
and alternative fuels solutions

From feasibility to delivery, we cover it all



More than
5,000
completed
projects



NEWBUILDING



CONVERSIONS



SUSTAINABILITY



CONSULTING

Foreship services in a nutshell



1

**Newbuilding
Concept Design
& Consultancy**



Early-stage vessel concepts and owner support, including outline concept design, energy efficiency studies, yard selection, negotiations, and design review for major cruise, ferry, and special vessels

2

**Conversion
Engineering & Project
Management**



End-to-end **engineering** and **project management** for **refits** and **complex vessel conversions**

From feasibility and planning through dry-dock execution, stability updates, and class approval (**2,000+ conversion projects** delivered)

3

**Classification
Design**



Design fully **compliant** with **class** and **regulatory requirements**

Full **basic design** across all disciplines (naval architecture, machinery, HVAC, structures, electrical, interiors), plus **detail design** focused on retrofit and conversion scopes

4

**Energy Transition
& Decarbonization**



Decarbonization strategies addressing **regulatory compliance** – IMO, EU ETS, FuelEU

Energy efficiency optimization, alternative fuels (LNG, methanol, ammonia), battery energy storage systems (BESS), shore power, and emissions solutions

5

**Ship
Theory**



Advanced naval architecture expertise covering stability, weight control, and damage analysis

Inclining tests, lightweight surveys, regulatory assessments, and safety-driven design decisions

6

**Hydrodynamics
& Performance**



Performance optimization using CFD, model testing, and full-scale simulations

Hull form optimization, propulsion efficiency, maneuvering, and fuel consumption reduction

A woman with long dark hair, wearing a light-colored cable-knit sweater, is seated and looking down at an open book. The background is a blurred bookshelf. Overlaid on the right side of the image is a vibrant, futuristic cityscape at night, featuring several tall, illuminated skyscrapers and a large, modern ship on the water. The scene is bathed in a cool blue light, with some digital particle effects floating around the city.

 **FORESHIP**
BY RINA

RINA

Thank you!