01

Giuseppe Tringali Jan 2021

LEADSHIP

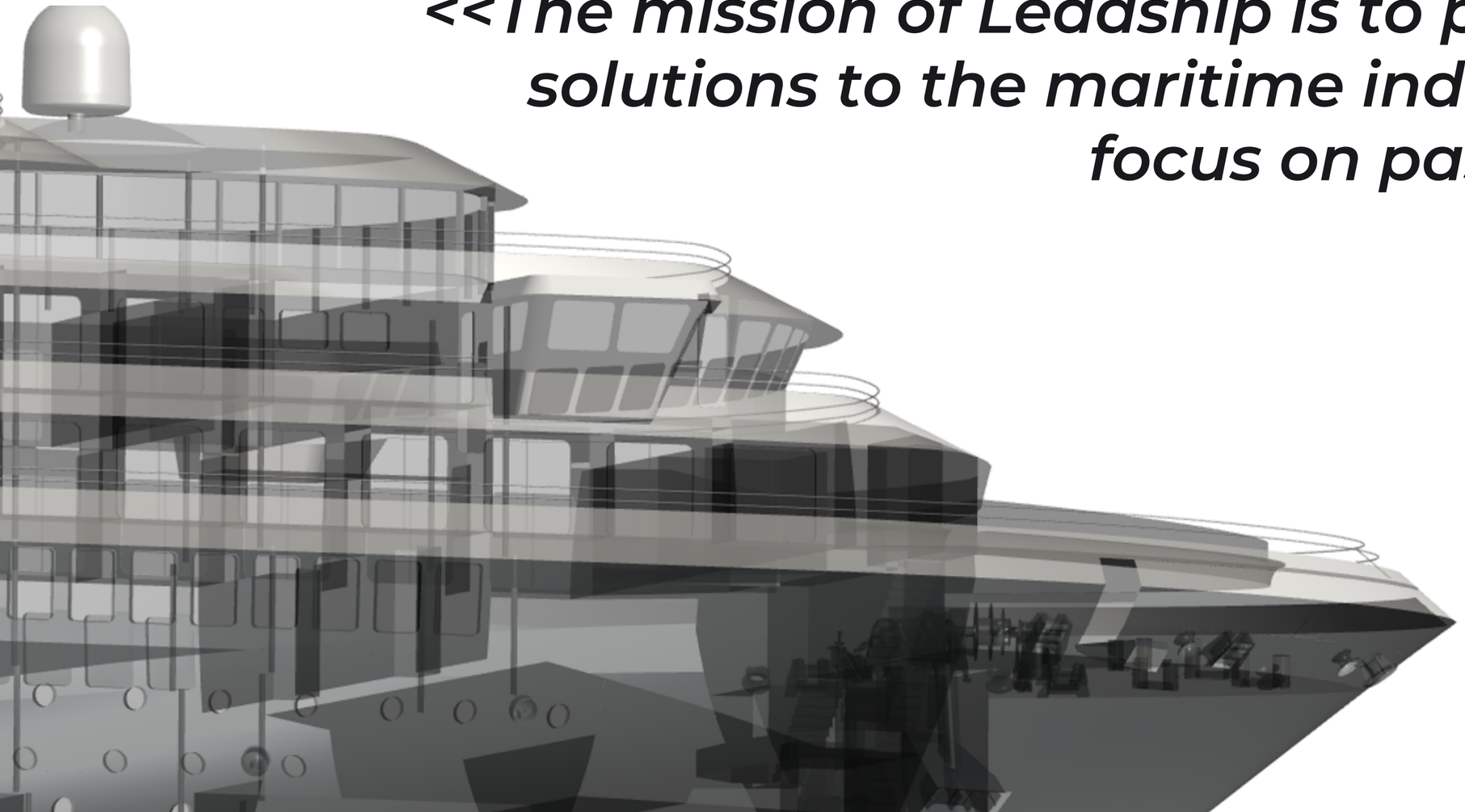
BESPOKE SHIP DESIGNS

Naval Architects and Engineers | leadship.com

COMPANY INTRODUCTION

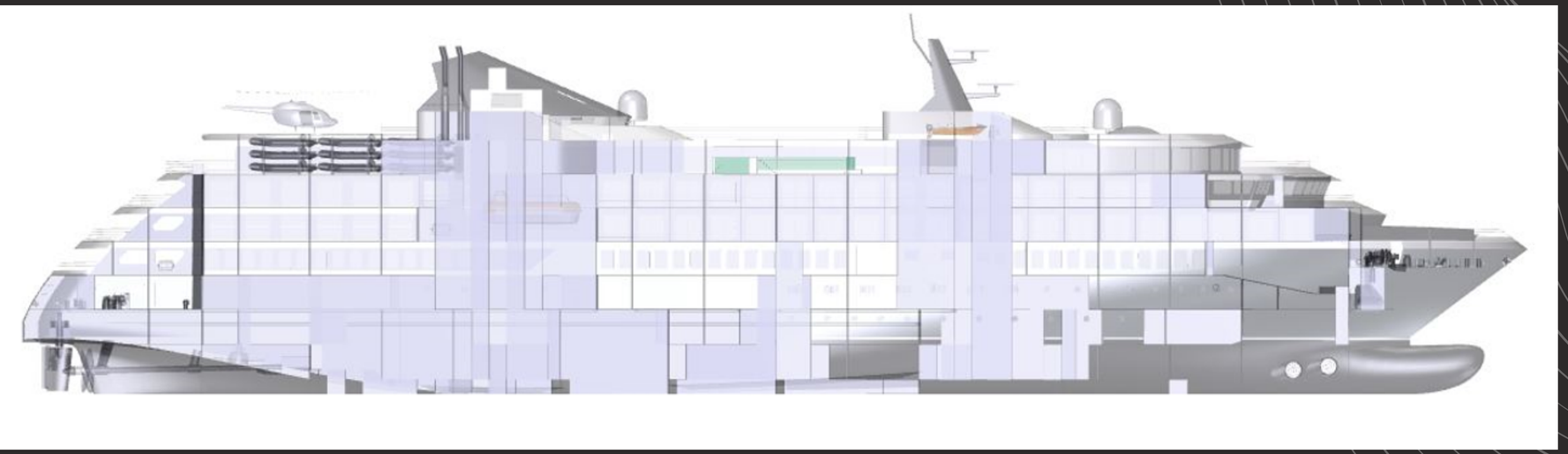
OUR FOCUS

<<The mission of Leadship is to provide bespoke solutions to the maritime industry with main focus on passenger ships>>



ABOUT LEADSHIP

Our services go beyond design to offer total support from our consultants and on-site team, ensuring the smoothest outcome for even the most demanding projects and partners



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SOME INTERESTING FACTS

01 • FORMED: JANUARY 2017

02 • OFFICES: NICOSIA (CYPRUS), PIRAEUS(GREECE), GENOVA (ITALY) & LONDON (UK)

03 • TOTAL NUMBER OF ONGOING *NEW DESIGN* PROJECT: 6

04 • TOTAL NUMBER OF ONGOING *CONVERSION* PROJECT: 3

05 • NUMBER OF NATIONALITIES: 3 (BRITISH, ITALIAN, GREEK)

06 • AVERAGE YEARS OF EXPERIENCE: 17

07 • TIME ELAPSED FROM OPENING OF COMPANY TO SIGNATURE OF FIRST FULL BASIC DESIGN FOR CRUISER: 1 WEEK

08 • TIME FROM CONCEPT TO SEA TRIALS (MS WORLD EXPLORER):27 MONTHS

STAFF

A GROUP OF EXPERTS IN SHIP DESIGN AND CONSULTANCY COMING FROM NORTHERN EUROPEAN LEADING DESIGN COMPANIES

- NAVAL ARCHITECTS
- MECHANICAL ENGINEERS
- MARINE ENGINEERS
- STRUCTURAL ENGINEERS
- PROJECT MANAGER
- ONSITE SUPERVISION MANAGERS
- INTERIOR DESIGNERS AND OUTFITTERS

AT THE FOREFRONT

- LEADSHIP ARE INTEFERRY MEMBERS,AND INVOLVED IN THEIR TECHNICAL COMMITTEES (INTERNATIONAL FERRY ASSOCIATION)
- A STAFF MEMBER IS CHAIR OF I.M.O. COMMITTEE OF R.I.N.A. (ROYAL INSTITUTE OF NAVAL ARCHITECTS) INVOLVED WITH MSC, MEPC, AND ALL RELEVANT SUB-COMMITTEES
- LONG HISTORY OF ENGAGEMENT IN I.M.O.

07

OUR PEDIGREE IN OPERATIONS

LSH staff relies on our strong mix of legislation-design-operation knowledge.

Most of our staff has a vast operational experience on passenger ships which is transmitted in all our design activities

TYPES OF PROJECTS

- NEW BUILDINGS
- ENERGY OPTIMIZATION ANALYSIS
- FEASABILITY STUDIES
- TECHNICAL EXPERT SERVICES FOR LEGAL CASES
- RETROFIT AND CONVERSIONS
- SURVEYS

HIGH END HYDRODYNAMICS ANALYSIS

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SUPPORT FOR INTERIOR DESIGN

LEADSHIP

- DEVELOPMENT OF LAYOUTS AND SMART ARRANGEMENTS
- DESIGN INTEGRATION FROM INTERIOR DESIGNER
- SUPPORT TO MAJOR TURN-KEY CONTRACTORS FOR FLAG AND CLASS RELATED MATTERS
- ON-SITE SUPPORT

Polar Design is relatively new
to cruise industry
(owners/operators/shipyards)

POLAR DESIGN

EXPEDITION MARKET IS ATTRACTING NEW OWNERS

MORE REMOTE AREAS WILL BE ADDED IN THE FUTURE

PARTS OF POLAR CODE ARE OPEN FOR INTERPRETATION
AND FURTHER DEVELOPMENT (e.g. LSA)

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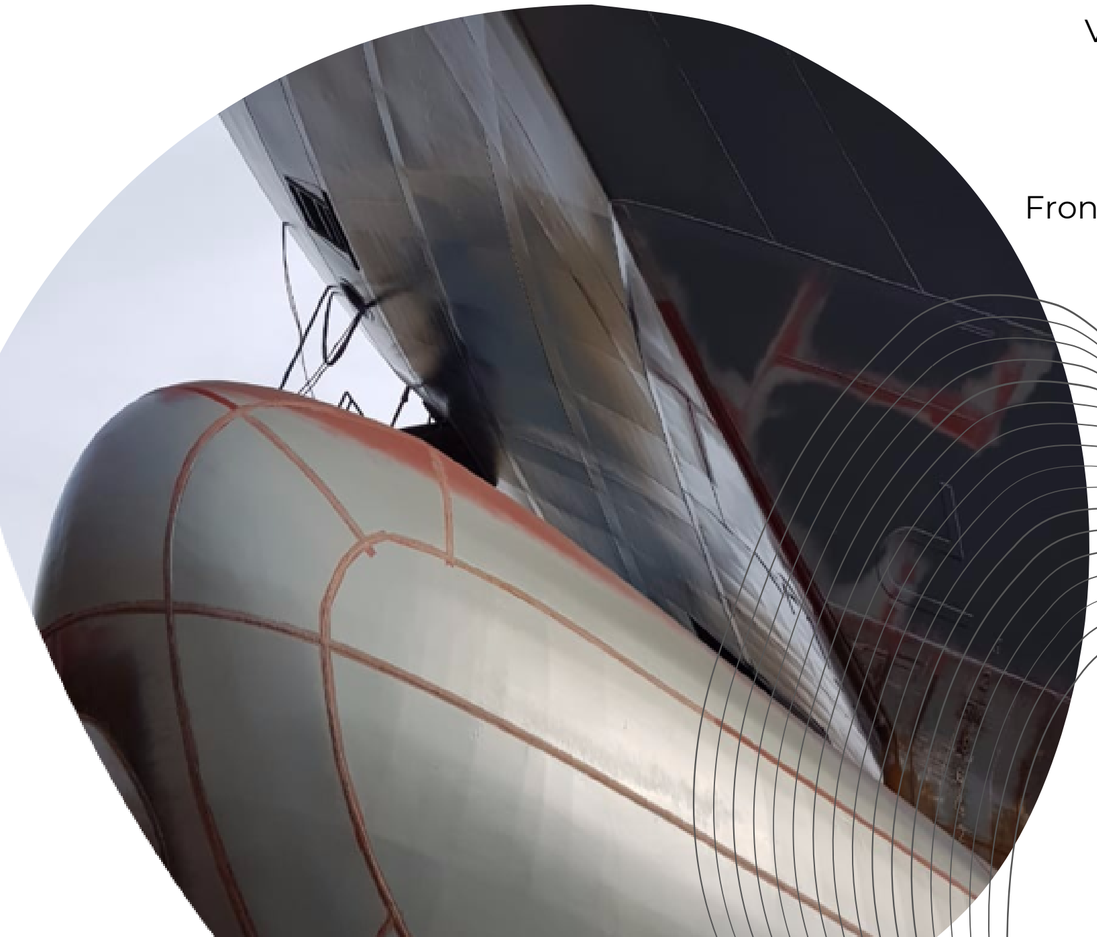
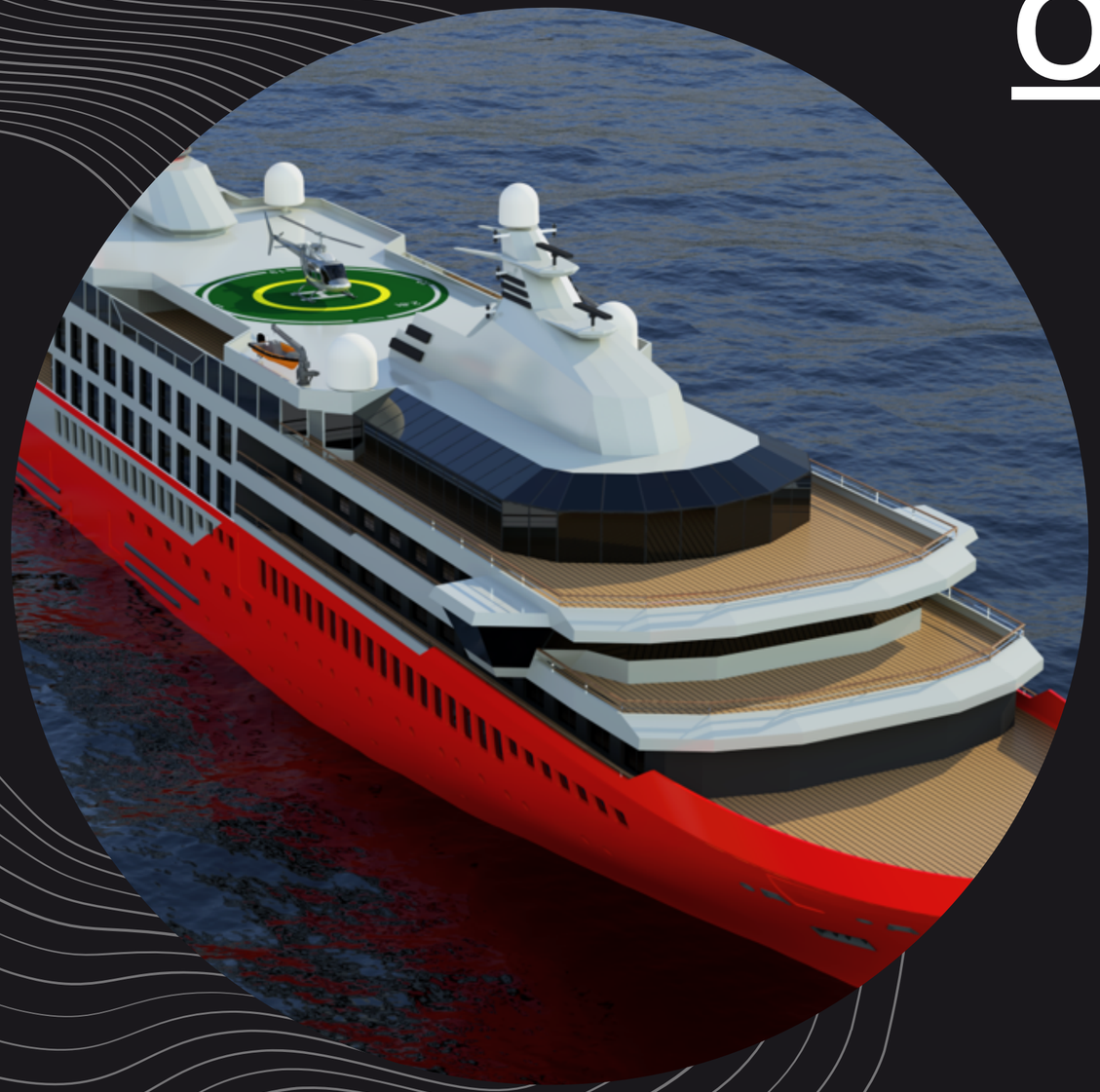
ENERGY OPTIMISATION

- Lights/hvac/Electric load optimisation - Increasing efficiency and asset value, lowering cost of ownership
- Vessel optimisation - Life extension and increasing asset value
- Vessel Upgrades - for compliance with new regulation or a new operating profile
- Troubleshooting and inspections
- Front-end analysis services - Identifying the best vessel solution for each application
- Vessel surveys and valuations
- Vessel procurement services





OUR CUSTOMERS

SHIPOWNERS AND SHIP OPERATORS

SHIPYARDS

EQUIPMENENT MANUFACTURERS

GOVERNMENT BODIES

FINANCIAL INSTITUTIONS

LAW FIRMS

SOME RECENT NEWBUILDING PROJECTS

MYSTIC CRUISES FIRST GENERATION

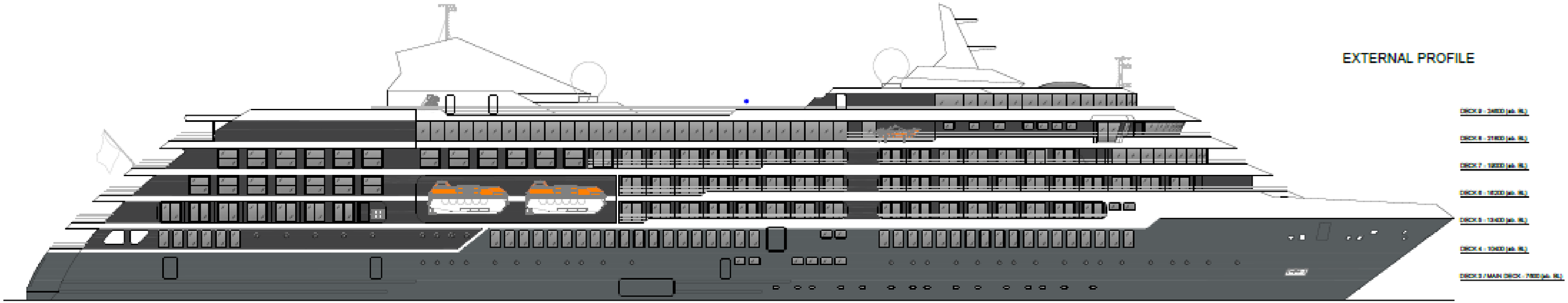
MYSTIC CRUISES

WORLD EXPLORER	2019
WORLD VOYAGER	2020
WORLD NAVIGATOR	2021
WORLD TRAVELLER	2022
WORLD SEEKER	2022
WORLD ADVENTURER	2023
WORLD DISCOVERER	2023

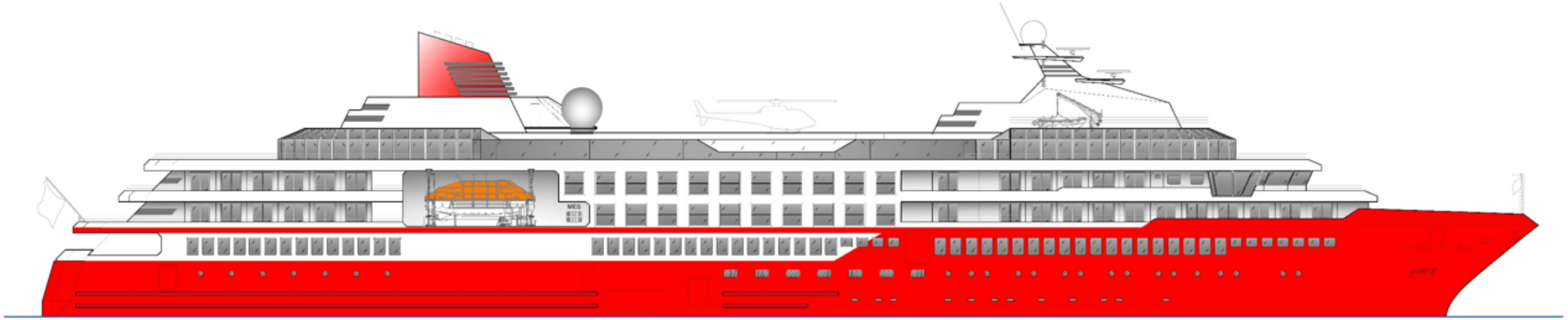
MYSTIC CRUISES - WESTSEA - LEADSHIP

- INITIAL DESIGN FOR MYSTIC
- TANK TESTING ACTIVITIES
- FULL BASIC DESIGN FOR MYSTIC
- PROCUREMENT TECHNICAL SUPPORT MYSTIC/WESTSEA
- INTERFACE WITH OWNER TEAM AND COMMUNICATION WITH MAJOR SUPPLIES
- INTERFACE WITH SHIPYARD DETAIL DESIGN CONTRACTOR FOR DESIGN STAGE TRANSITION
- TECHNICAL SUPPORT AND TROUBLE SHOOTING WITH MYSTIC

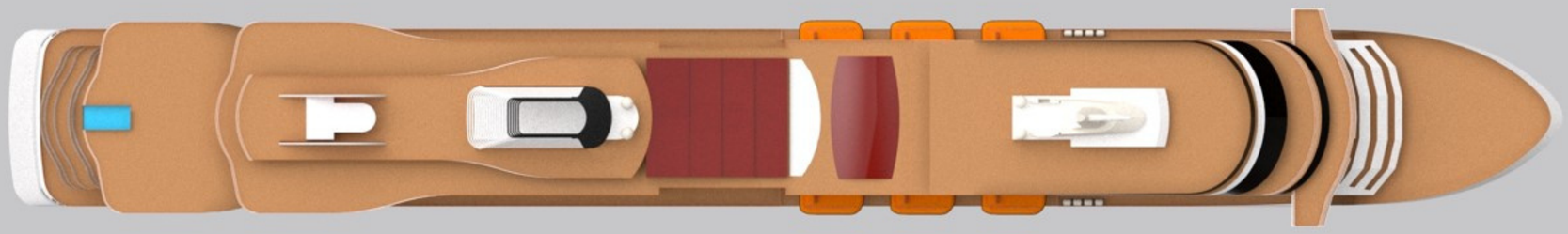
MYSTIC CRUISES SECOND GENERATION 235 PAX



235 PAX LUXURY EXPLORER
[EUROPEAN OWNER - LOI SIGNED WITH GSI CHINA]

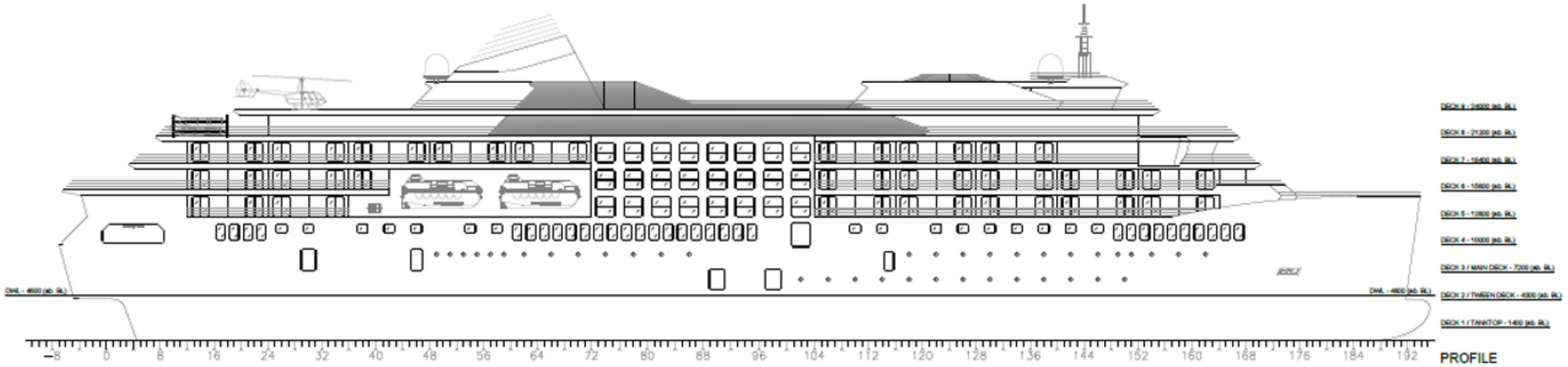


2000 PAX LUXURY CRUISER - ALL OUTSIDE CABINS
[EUROPEAN OWNER]

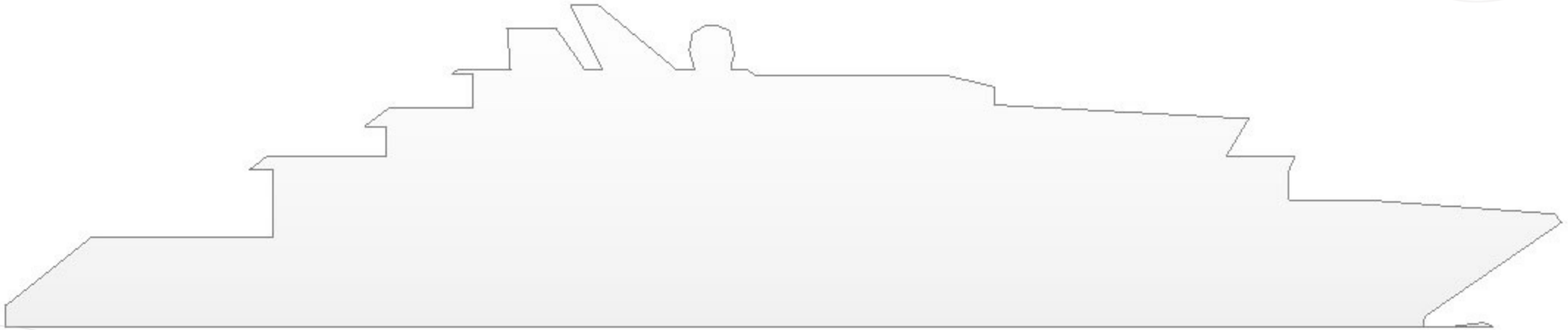


LUXURY RIVER CRUISER [130 PAX]

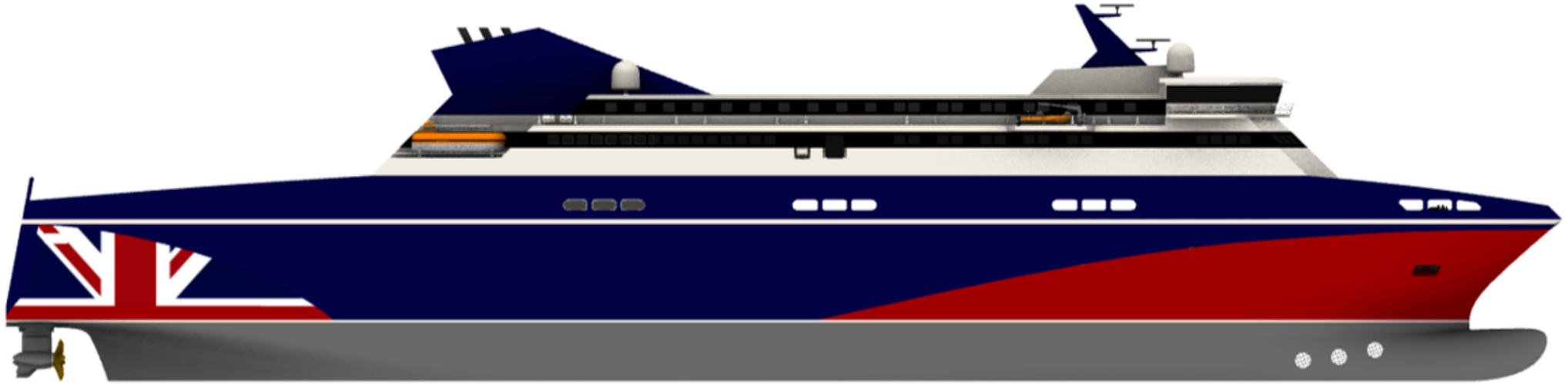
300 PAX LUXURY CRUISER
[US/UK OWNER]



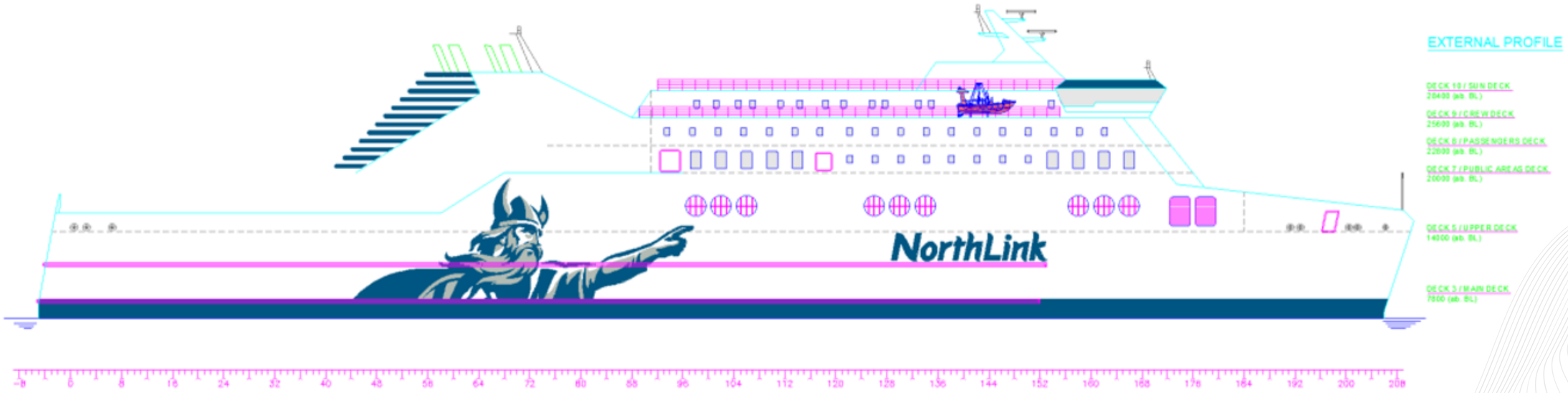
GALAPAGOS CRUISER
[US UNDISC OWNER]



DISASTER RELEAF VESSEL
[BMA - UK]



NEW RO-PAX FOR CMAL / NORTHLINK OF SCOTLAND



PROJECT MONA - 960PAX AND 1300LM ROPAX [CAMMEL LAIRD UK]

OPERATIONAL JOBS AND LIFE EXTENSION

EXTENSIVE DATABASE OF CRUISE VESSELS DESIGN AND OPERATIONAL DATA

[LSH TEAM INVOLVED IN TOTAL ENGINEERING, STATUTORY ASPECTS]

MAJOR CRUISERS REFITS

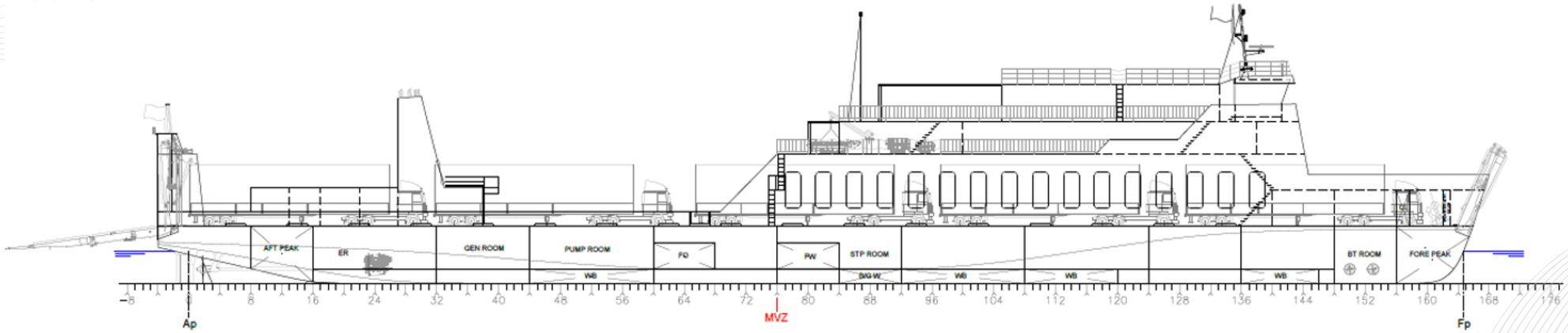
	VESSEL	OWNER	DESCRIPTION	VALUE
	SAGA RUBY	SAGA	Major refit tin Malta, including steel renewal, public spaces and accommodation	15M EUR
	SPIRIT OF ADVENTURE	SAGA	Acquisition support and refit in Genova for modification of public spaces, passenger cabins. Steel work and asbestos removal.	8.5M EUR
	SAGA SAPPHIRE	SAGA	Pre-purchase support, total refit of public and accommodation spaces. Addition of lift towers and balcony suites. Replacement of generator, and updating of other major systems	30M EUR
	SPITSBERGEN	HURTIGRUTEN	Conversion from Ro-Pax to explorer vessel. Insertion of duck tail, rebulbing, total transformation of cabins, public spaces and crew accommodation	38M EUR
	FRAM	HURTIGRUTEN	Ongoing, total rebuilt of public spaces and pax cabins, update of window areas, addition of SCR system, other system modifications.	ND

JGH GROUP - ELEQTRA FERRY V8

ELEQTRA JGH LSH

EARLY 2020	- ELEQTRA FLOATED TENDER IN FOR THE CONSTRUCTION OF A RO-PAX FOR THE LAKE VICTORIA
SEPT 2020	- LEADSHIP (LSH) CHOSE AS DESIGNER FOR THE FERRY CLASS BY ONE OF PREFERRED BIDDERS JGH OF DENMARK
OCT 2020	- LSH CARRIES OUT DESIGN REVIEW AND SUBMITS COMMENTS
DEC 2020	- JGH AND ELEQTRA CARRY OUT FINAL NEGOTIATIONS

VESSEL CHARACTERISTICS



PRINCIPAL CHARACTERISTICS:

Length over all	104.00	m
Length between pp	98.90m	
Breadth mld.	17.30m	
Depth to Deck 2 (Bhd deck)	4.40 m	
Design Draught	2.50 m	
Scantling Draught	2.60 m	
Design Speed	10.00kt	
Lane meters	408.60	m
Number of Passengers	60	
Number of Crew	18	

DECK 5 / BRIDGE DECK
12550 (ab. BL)

DECK 4 / ACC. DECK
10000 (ab. BL)

DECK 3 / FWD MOORING DECK
7200 (ab. BL)

DECK 2 / MAIN DECK
4400 (ab. BL)

DECK 1 / TANKTOP
1100 (ab. BL)

VESSEL STATUTORY FRAMEWORK

SOLAS COMPLIANCY WITH INLAND RULES

FLAG STATE

CLASSIFICATION SOCIETY

CURRENTLY BE CHOSEN

Lloyd's Register

RINA

CURRENT PROJECTS

CARNIVAL UK

P&O FERRIES

CAMMELL LAIRD
SHIPREPAIRERS & SHIPBUILDERS LIMITED

Fjordland Cruise

DOURO AZUL

MYSTIC CRUISES

methanex
the power of agility

HURTIGRUTEN

CMAL
Caledonian Maritime Assets Ltd
Stóras Mara Caillleannach Eta

ECOSPRAY TECHNOLOGIES

SPIRIT OF TASMANIA

OUR TOOLS

STAR-CCM+

Simlab Soft

Microsoft Office

Rhinoceros
NURBS modeling for Windows

Nauticus Hull
Rule strength analysis of hull structures
DNV Software

smartsheet

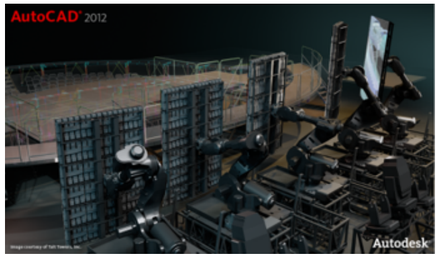
MathWorks

Adams 2012
The Multibody Dynamics Simulation Solution
Learn more about Adams at
adams.mscsoftware.com

RulesCalc July 2011

MSC Nastran 2012
Advanced Nonlinear and Multidiscipline Capabilities

PolyCAD



LEADSHIP

NAVAL ARCHITECTS & ENGINEERS

TAILORED AND INDEPENDENT APPROACH TO EACH PROJECT AND CUSTOMER

COMBINE DESIGN AND FUNCTIONALITY

MIXING TRADITIONAL NAVAL ARCHITECTURAL EXPERIENCE WITH ADVANCED TOOLS

FULFIL REQUIREMENTS WHILE MAKING THE PROJECT REALISTIC & ECONOMICALLY VIABLE

EXTENSIVE COOPERATION (GAINED TRUST) WITH MAJOR CLASSIFICATION SOCIETIES AND FLAGS

COOPERATION

SUPPORT IN THE DEFINITION OF KEY DESIGN PARAMETER, COMMERCIAL TARGETS

PREPARE QUICK CONCEPT DESIGN

EXECUTE TENDER DESIGN TO FINALISE AGREEMENT FOR CONTRACT CONSOLIDATION

FULL BASIC DESIGN ACTIVITIES - TRANSITION OF DESIGN SERVICES TO YARD

SUPPORT THE CONNECTION BETWEEN BASIC DESIGN - DETAIL (COORDINATION)

ON-SITE SUPERVISION (TAKE THE PROJECT ALL THE WAY TO DELIVERY

LEADSHIP
NAVAL ARCHITECTS & ENGINEERS

LEADSHIP

NAVAL ARCHITECTS &
ENGINEERS

THANK YOU FOR YOUR TIME