

# MOL's initiatives for Japan's Arctic Research Vessel "MIRAI II"

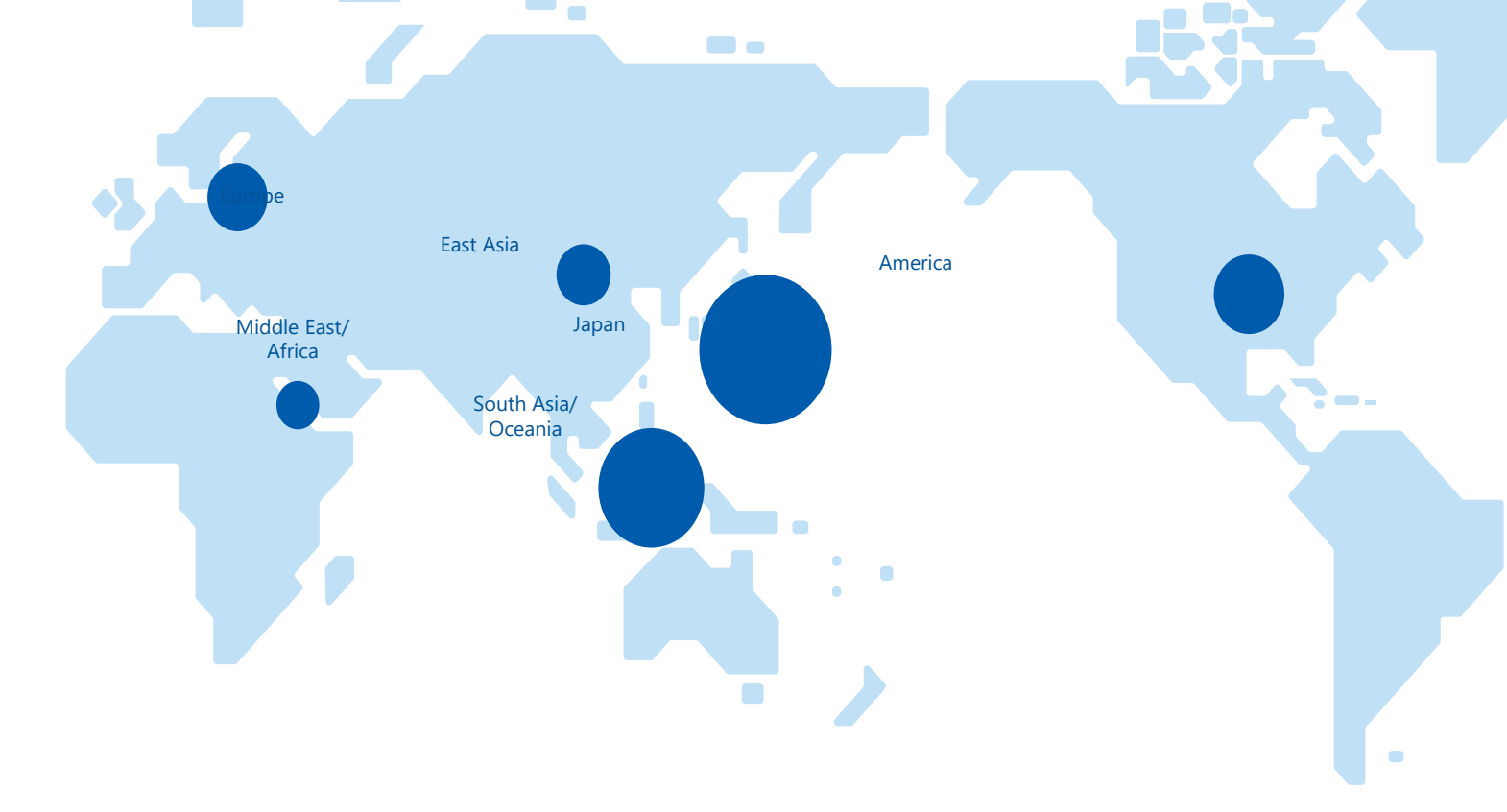
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## MOL Business (as of March 2025)

MOL was founded in 1884 in Tokyo, Japan. We offer a wide range of transport services, all based on safe and reliable operation.

### Global presence

\*The size of the circles indicates the scale of business in each region

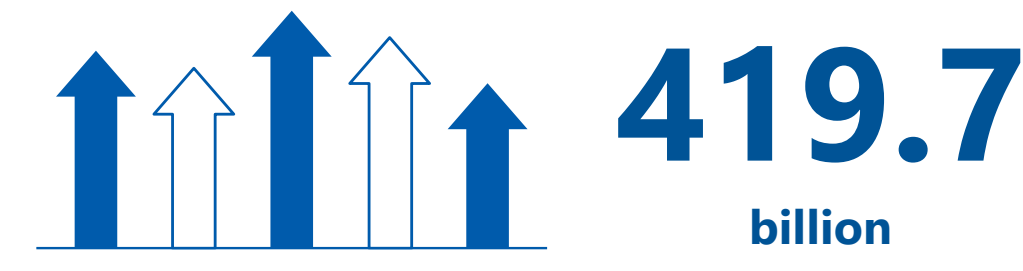


### Number of MOL Group employees

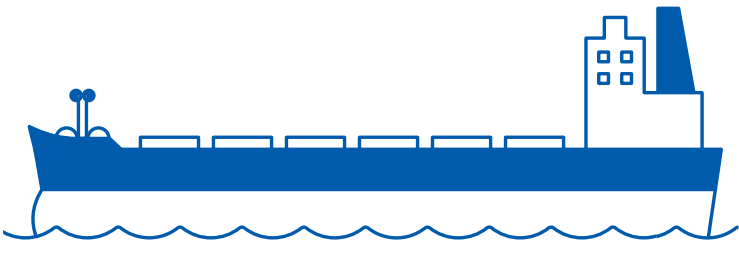


27 countries

### Consolidated ordinary profit



### MOL Fleet Scale



World's Second largest  
**935** vessels

Dry Bulk Business	Dry Bulkers	
	Tankers	
Energy Business	LNG Carriers	
	Offshore Business	

Product Transport Business	Car Carriers	
	Containerships	
Wellbeing Lifestyle Business	Real Property Business	
	Ferries and Coastal RoRo ships	
	Cruise Business	
Associated Businesses	Tugboats, Trading etc.	

## Main Specifications

Shipowner: **Japan Agency for Marine-Earth Science and Technology (JAMSTEC)**

Ship Builder: **Japan Marine United Corporation (JMU)**

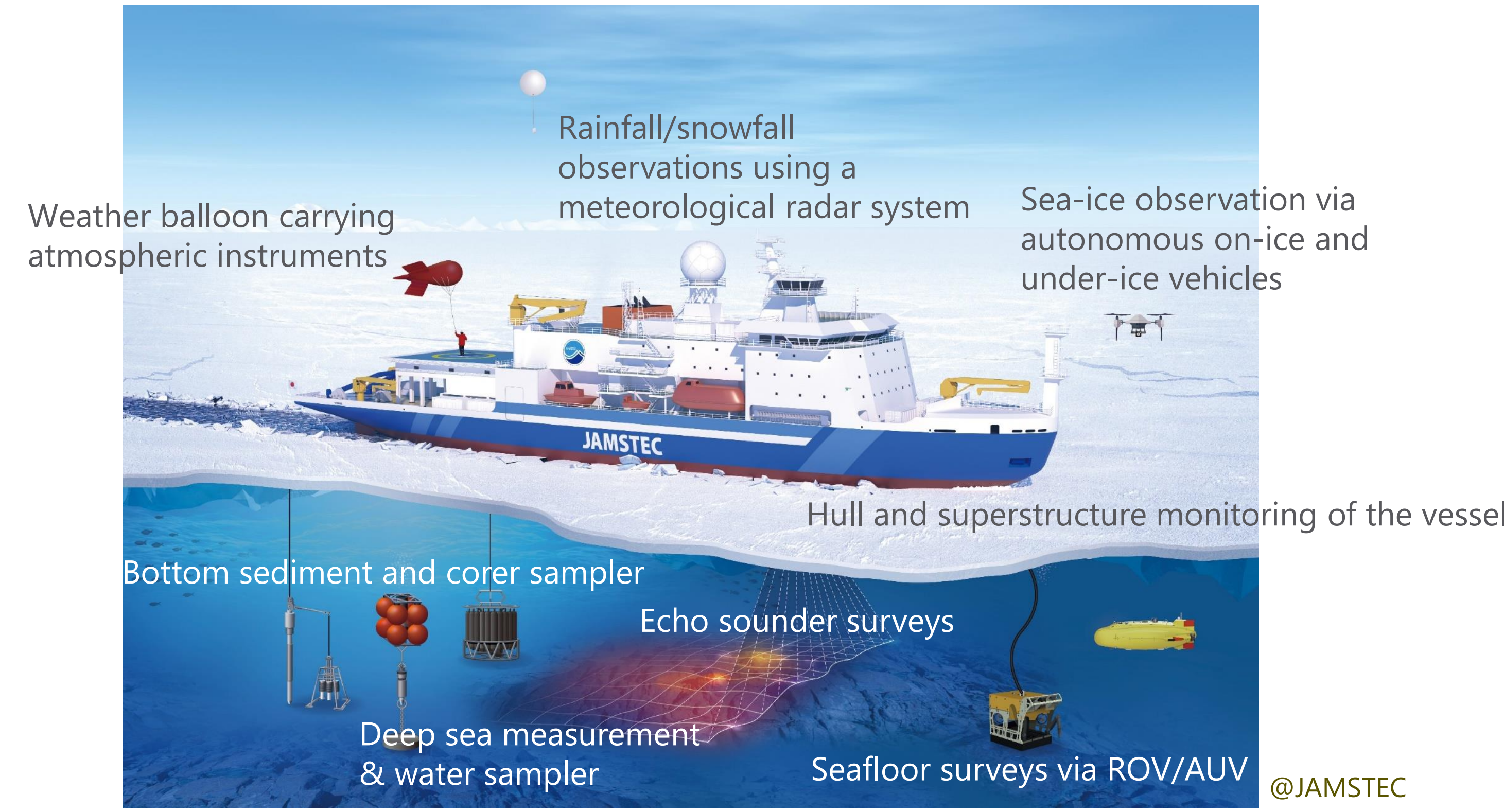
Construction Supervisor /Expected Operator: **Mitsui O.S.K. Lines, Ltd. (MOL)**

Preparation for research observation support/Expected research observation supporter: **Marine Works Japan Ltd. (MWJ)**

Length	128m
Beam	23m
Depth	12.5m
Draft	8.0m
Gross tonnage	13,000 tons
Ice-breaking capacity	capable of continuously breaking 1.2 m of flat, one-year ice at a speed of 3.0 knots
Polar class	PC4
Generator Diesel	Approx. 5,600kw×3, Approx. 2,600kw×1 (Dual fuel diesel)
Propulsion	Controllable pitch propeller
Accommodation	97

## Functions and Facilities

All-round observation and research functions in various sea areas including sea ice areas



## MOL Group Corporate Mission and Value

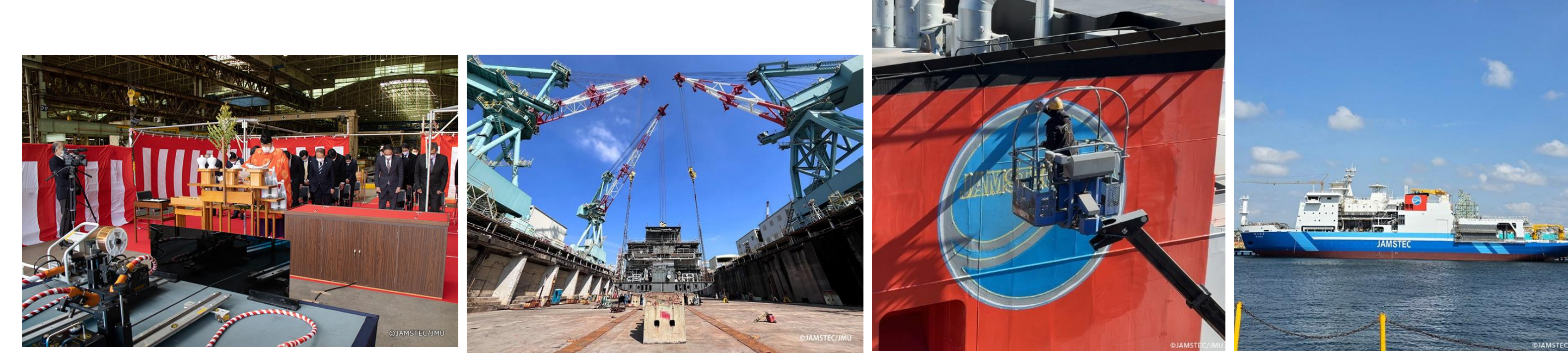
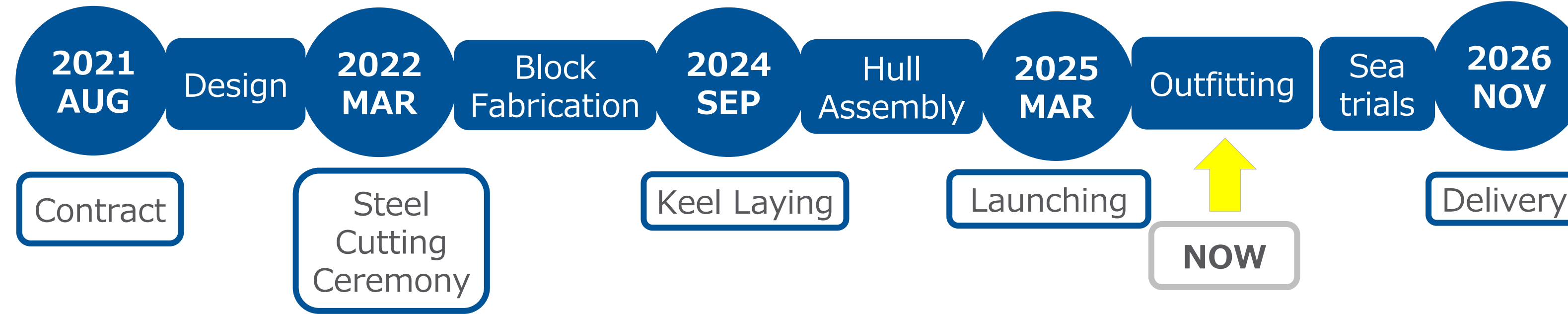
### MOL Group Corporate Mission

From the blue oceans, we sustain people's lives and ensure a prosperous future.

### MOL Group Vision

We will develop a variety of social infrastructure businesses in addition to traditional shipping businesses, and will meet the evolving social needs including environmental conservation, with innovative technology and services. MOL group aims to be a strong and resilient corporate group that provides new value to all stakeholders and grows globally.

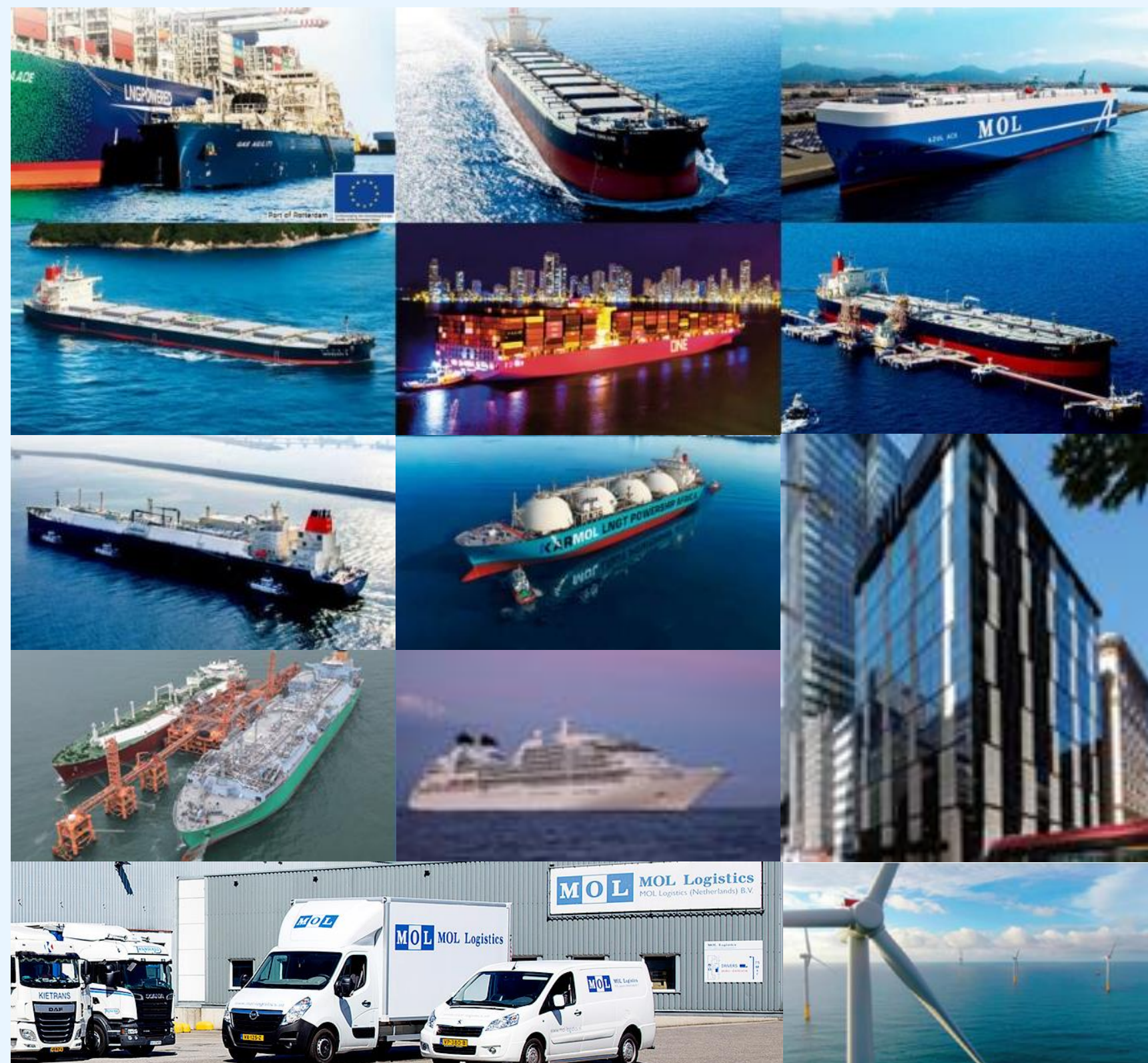
## Schedule



## Toward the Creation of New Value

Environmental changes in the Arctic Ocean have a significant impact on global climate change and biodiversity. Japan has a responsibility to form a commitment to scientific investigations into the changing environment of the Arctic as a nation affected by these changes, and as a world leader in scientific research.

MOL is making the most of the know-how in operational quality and safe operation through long history by the MOL Group as a whole, including its operational experience in Northern Sea Route, and will contribute to the future of the Earth through the operation of the Arctic research vessel as international research platform.



## Operation Preparation

In preparation for the Mirai II's delivery in November 2026, MOL has considered about training for its crew members. Training for crew members is scheduled to be conducted up to November 2026.

Dispatch of captains and officers to research vessel

Attend icebreaking simulation training and manufacturer training



@JAMSTEC



## International Efforts

In order to operate MIRAI II as an international research platform, also to enhance our recognition within the research vessel and icebreaker network, we are committed to international research projects and fostering domestic and foreign early-career scientists.

