

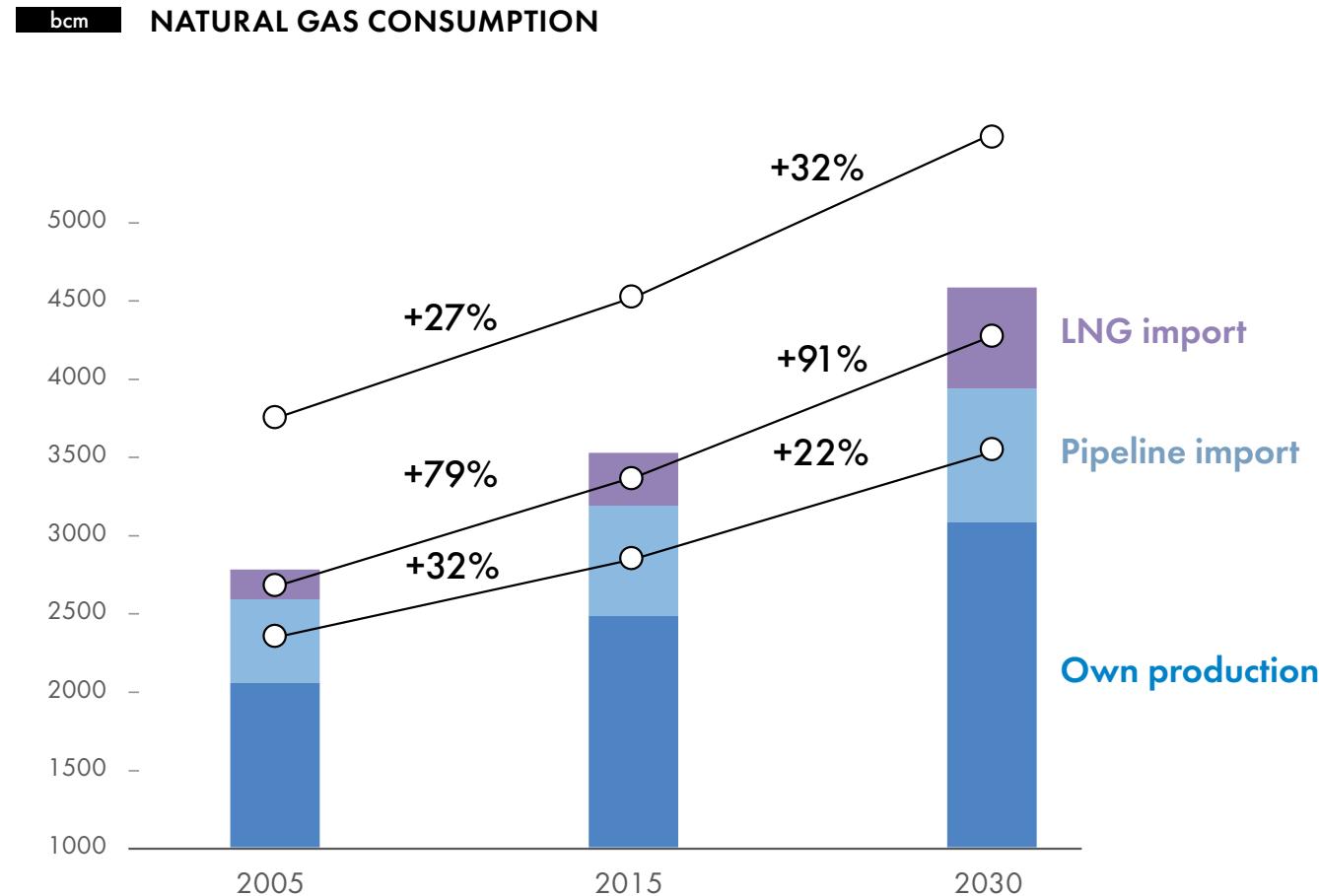


**NOVATEK**

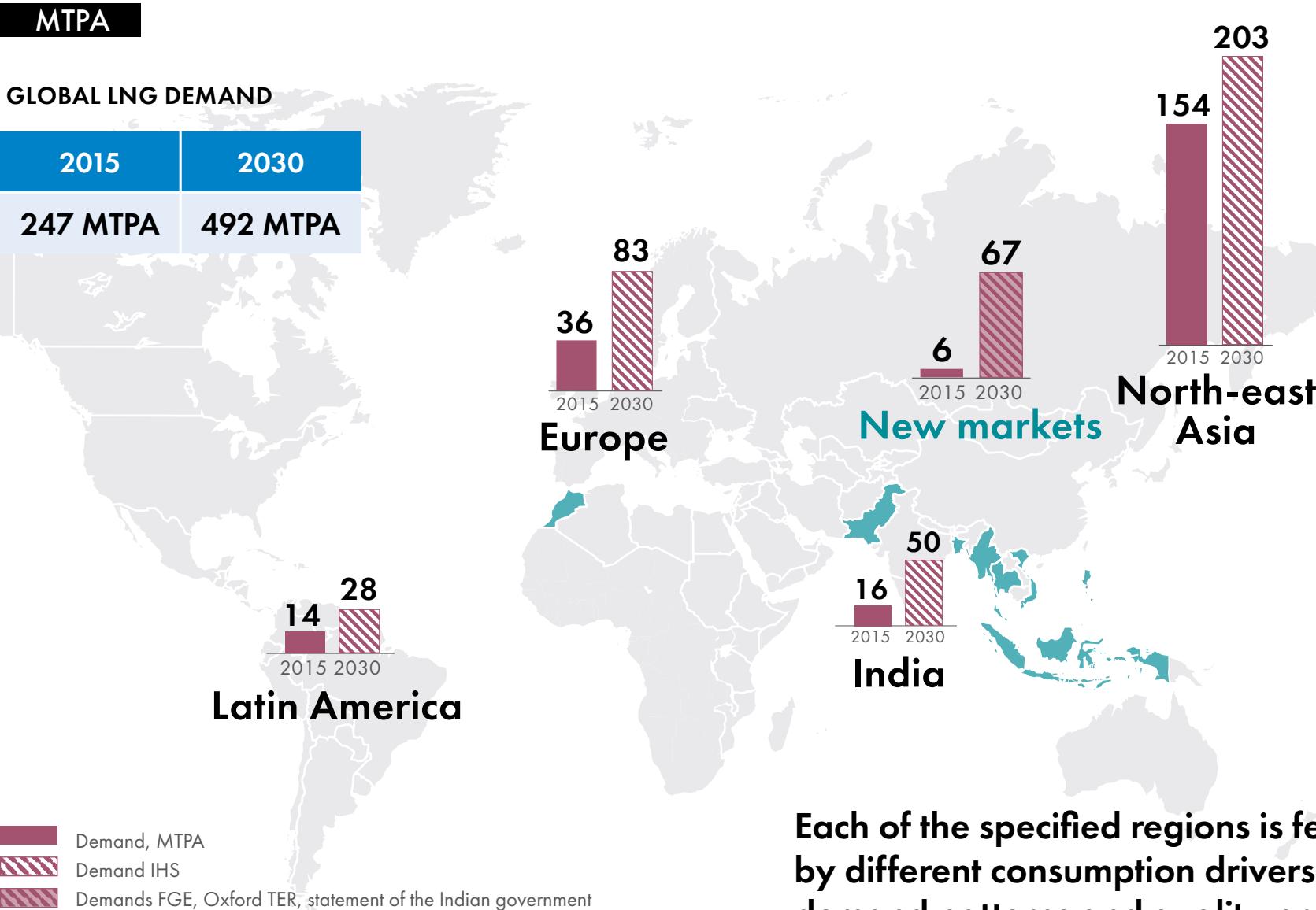
# LNG PRODUCER-CONSUMER CONFERENCE

TOKYO, JAPAN

NOVEMBER 2016



**We expect LNG market to double between 2015 and 2030**



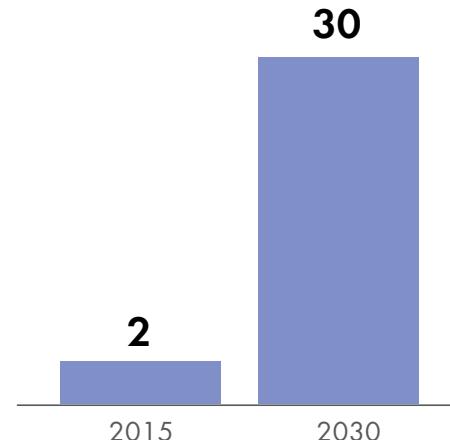
**Each of the specified regions is featured by different consumption drivers and different demand patterns and quality properties**

# PRICING IN THE OLD AND NEW ENERGY PARADIGMS



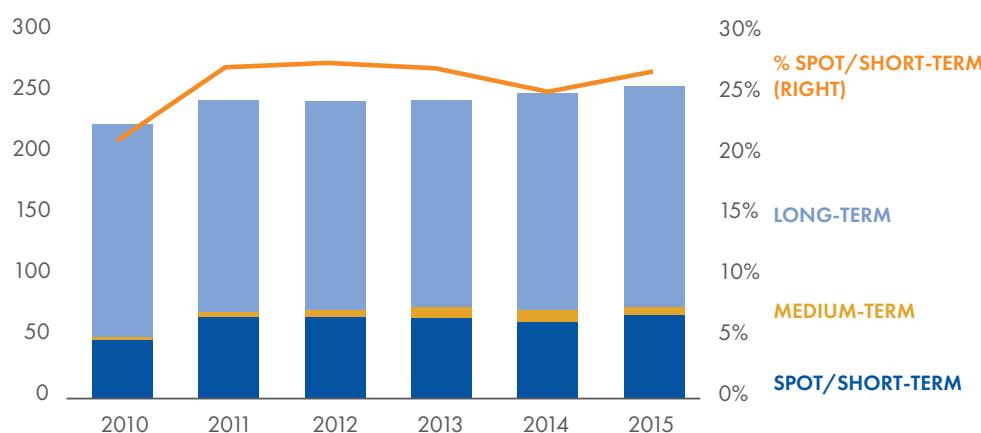
	OLD	NEW
PERIOD	20 years on average	10 years on average
FORMULAS AND INDICES	Oil indexed	Mix: gas, oil, hubs
FLEXIBILITY	Limited	By take-off, re-direction, destination
VOLUMES	Large (2~3 mmt)	Small (0.5-1.5 mmt)
PRICE LEVELS	Arbitrage between Asia and Europe	No arbitrage

MMtpa LNG IN BUNKERING AND



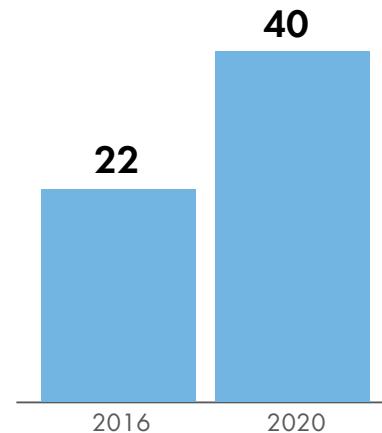
Source: IHS, Lloyds

MMtpa LNG TRADE BY CONTRACTUAL LENGTH



Source: IHS Energy, 2015

Unit GROWTH IN USE OF FSRU

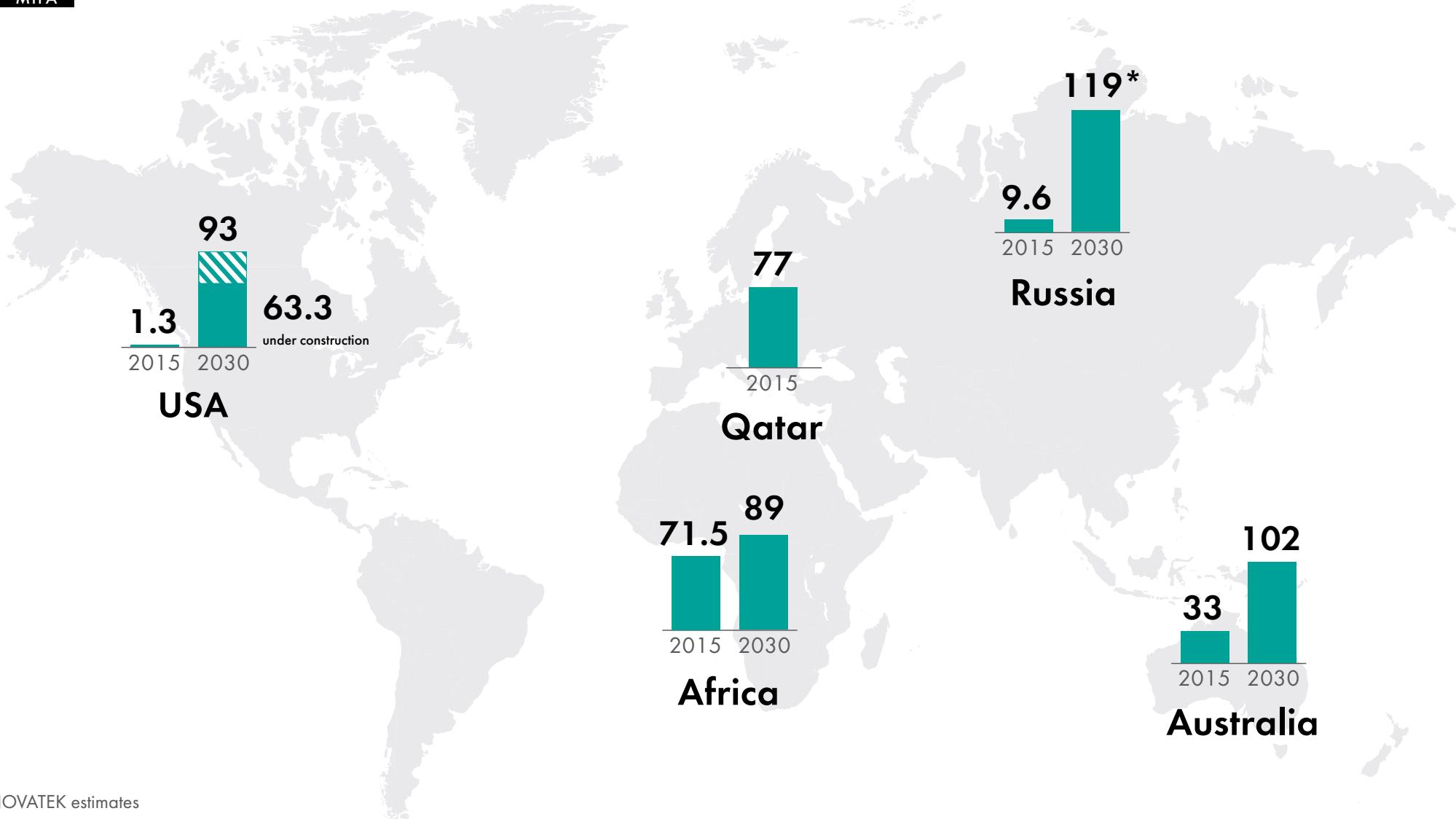


Source: Energy Maritime association

## SUPPLY – KEY POINTS OF LNG GROWTH



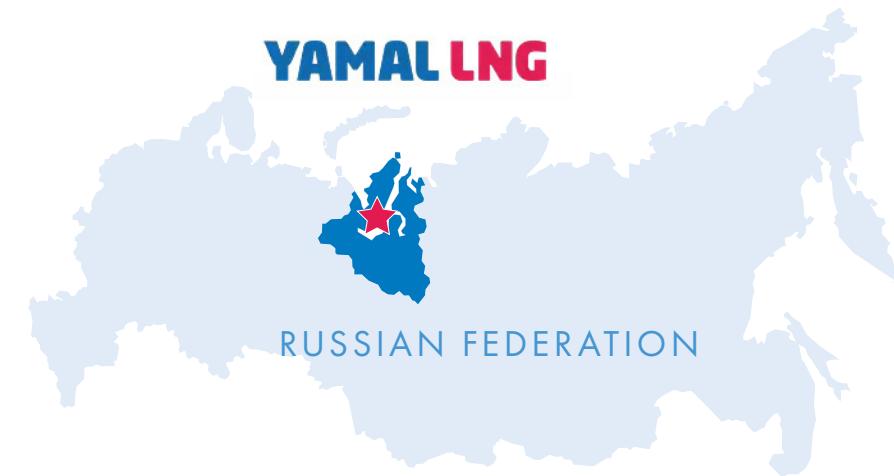
MTPA



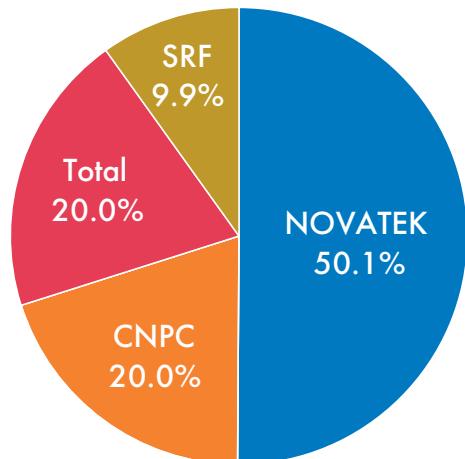
\* NOVATEK estimates

Source: IHS

- LNG Plant located in Sabetta, north-east of the Yamal Peninsula, Russia
- South Tambey Gas-Condensate Field: exploration and development license until 2045
- 2P PRMS reserves: 926 bcm of gas and 30 mmt of condensate
- Liquefaction capacity: 16.5 mmt of LNG (3 trains) and 1.2 mmt of stable gas condensate pa



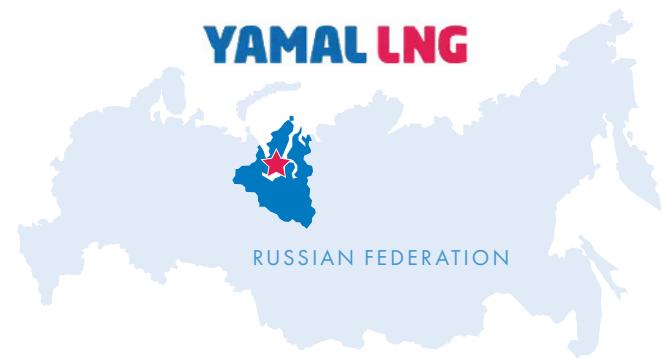
#### SHAREHOLDERS



KEY FIGURES	YAMAL LNG
Volume p.a.	>16.5mmt / 21bcm
Status	Overall completion status – 71%, including 86 % for train 1
Total Capex	US\$27bln
Destination	Asia
Country project participants	Russia, China, France, Italy, Sweden, USA, Japan

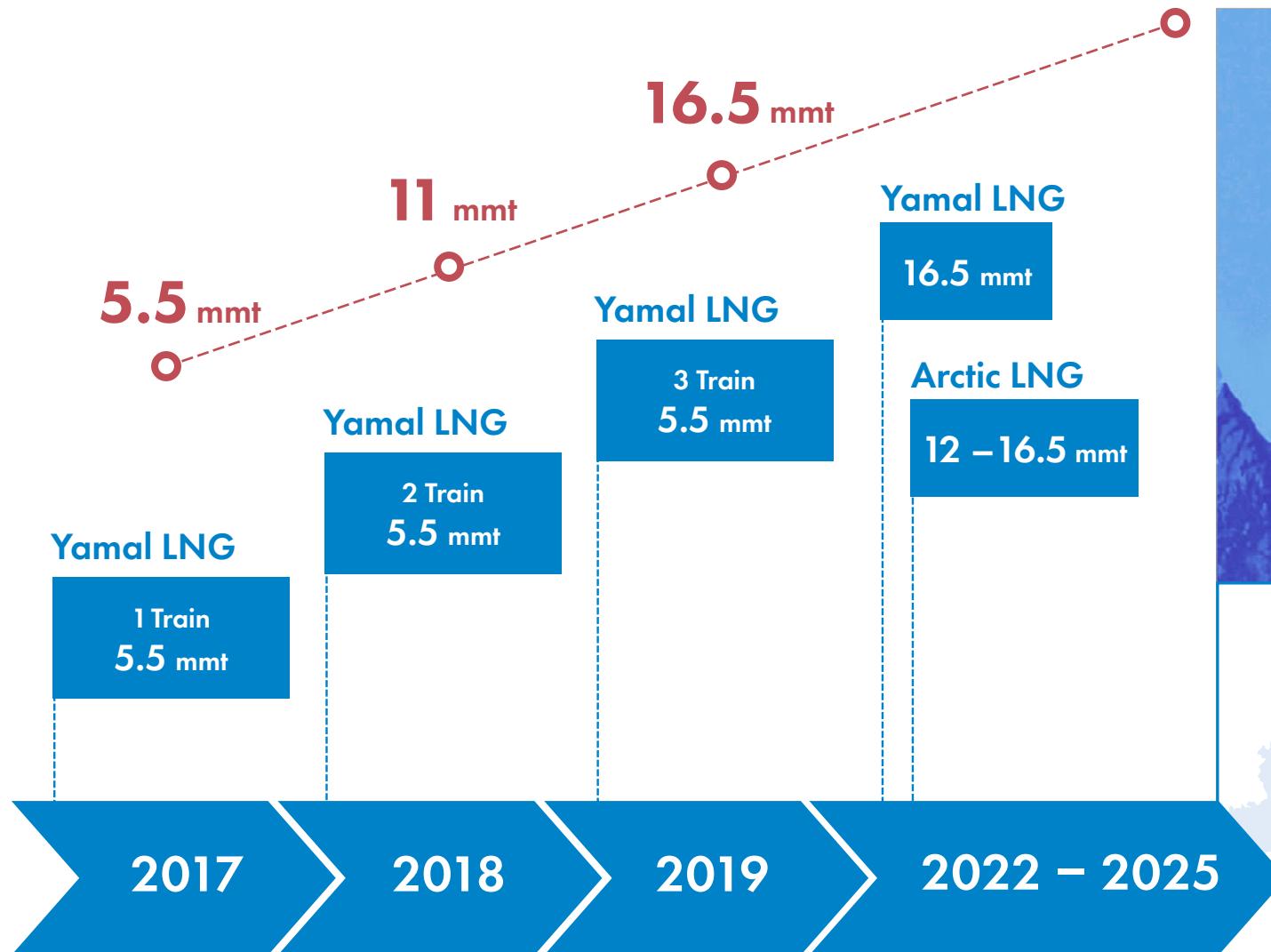
Source: NOVATEK



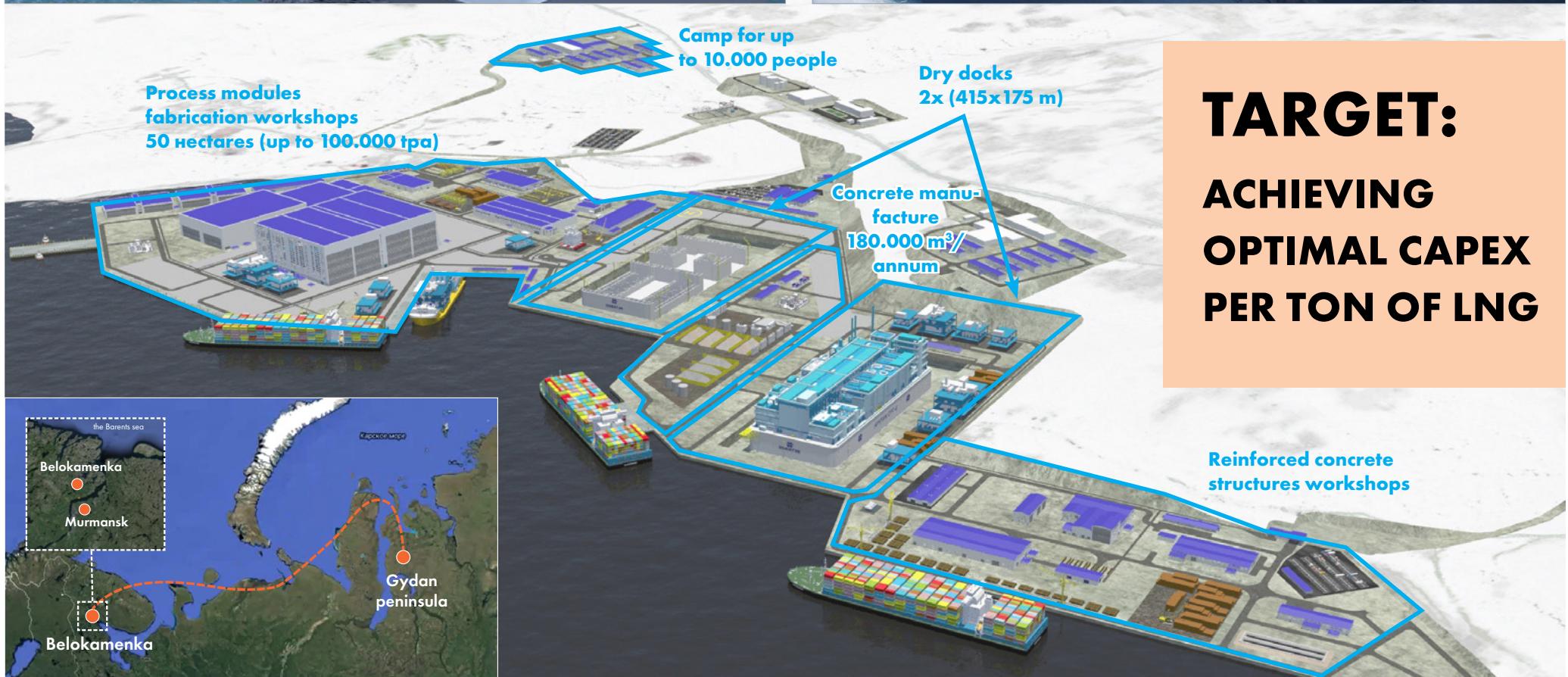




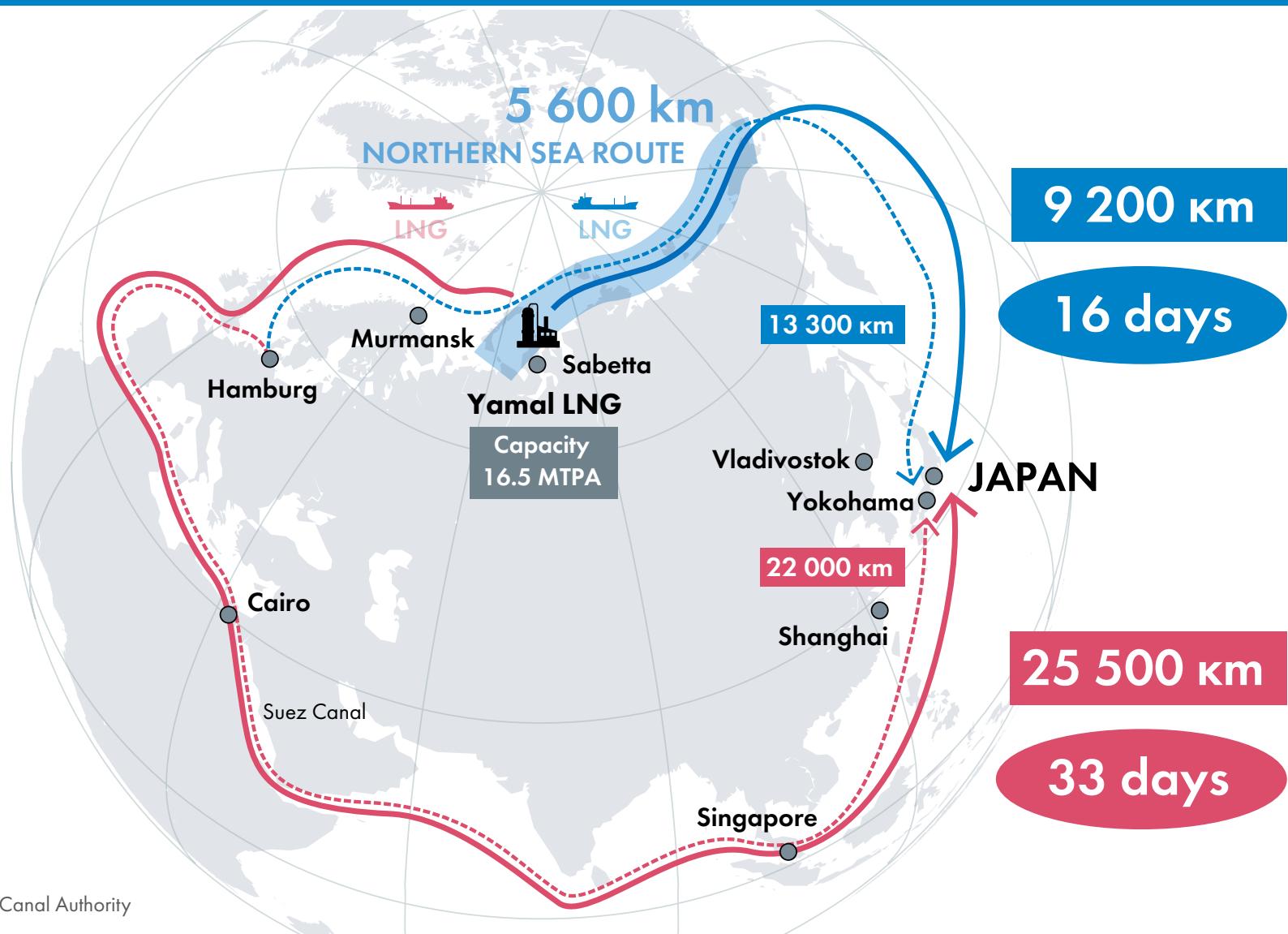
**28.7 – 33 mmt**



## KOLAR YARD – A YARD TO PRODUCE GBS-BASED LNG PLANTS



**TARGET:**  
**ACHIEVING**  
**OPTIMAL CAPEX**  
**PER TON OF LNG**



Source: NOVATEK, Suez Canal Authority

## EFFICIENT ALTERNATIVE TO THE SUEZ CANAL

FIRST LNG TANKER (ARC7) FOR YAMAL LNG COMMENCED OPERATIONS  
IN NOVEMBER 2016



# NOW

1 new atomic icebreaker  
«Arctic» (60 MWt) launched

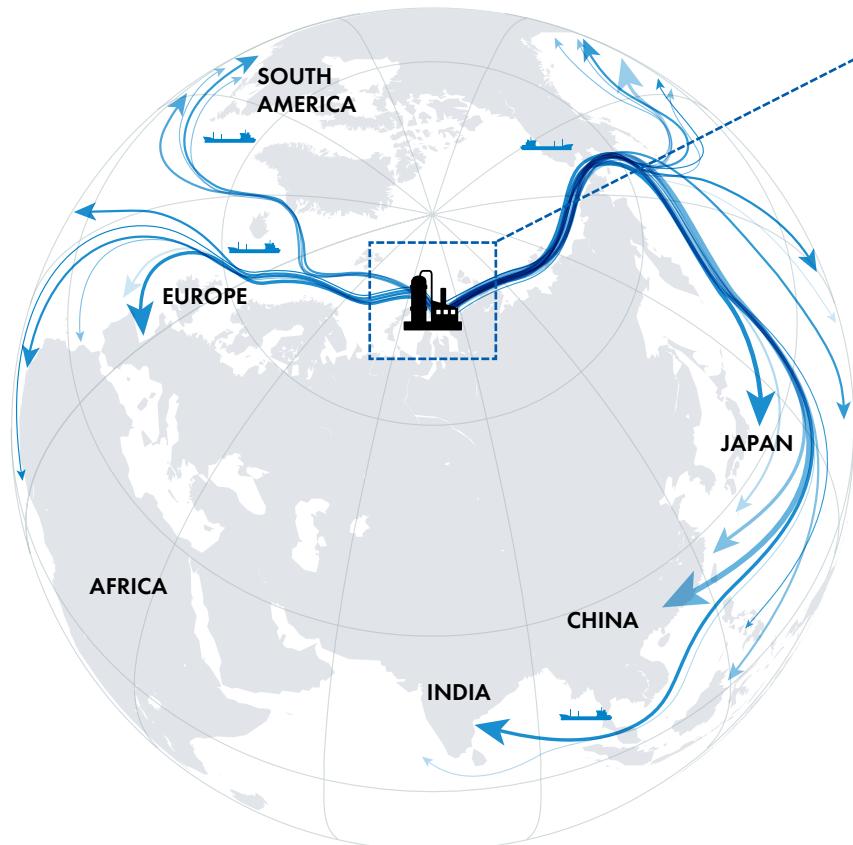


# COMING

2 more

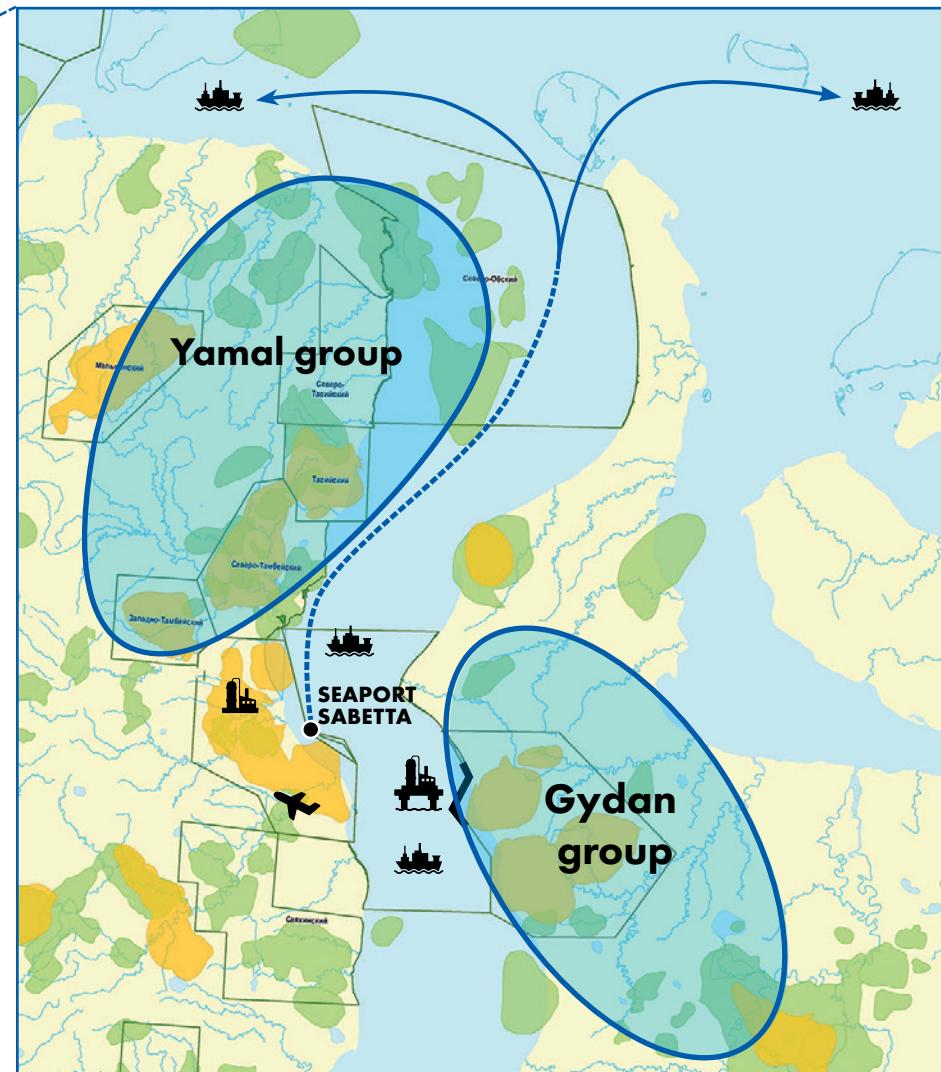


## FUTURE OF LNG AT YAMAL AND GYDAN PENINSULA



**NOVATEK**

- 1ST LNG project start-up in 2017
- 2ND LNG project start-up in 2022 – 2025



LNG PRODUCTION POTENTIAL IN THE YAMAL AND GYDAN PENINSULAS IS OVER **78 MTPA**