

# PROTECTION OF THE ARCTIC MARINE ENVIRONMENT

*Working group of the Arctic Council*

**Hjalti Þór Hreinsson**

PAME Project Manager



# ARCTIC SHIP TRAFFIC DATA (ASTD)



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Protection of the Arctic Marine Environment



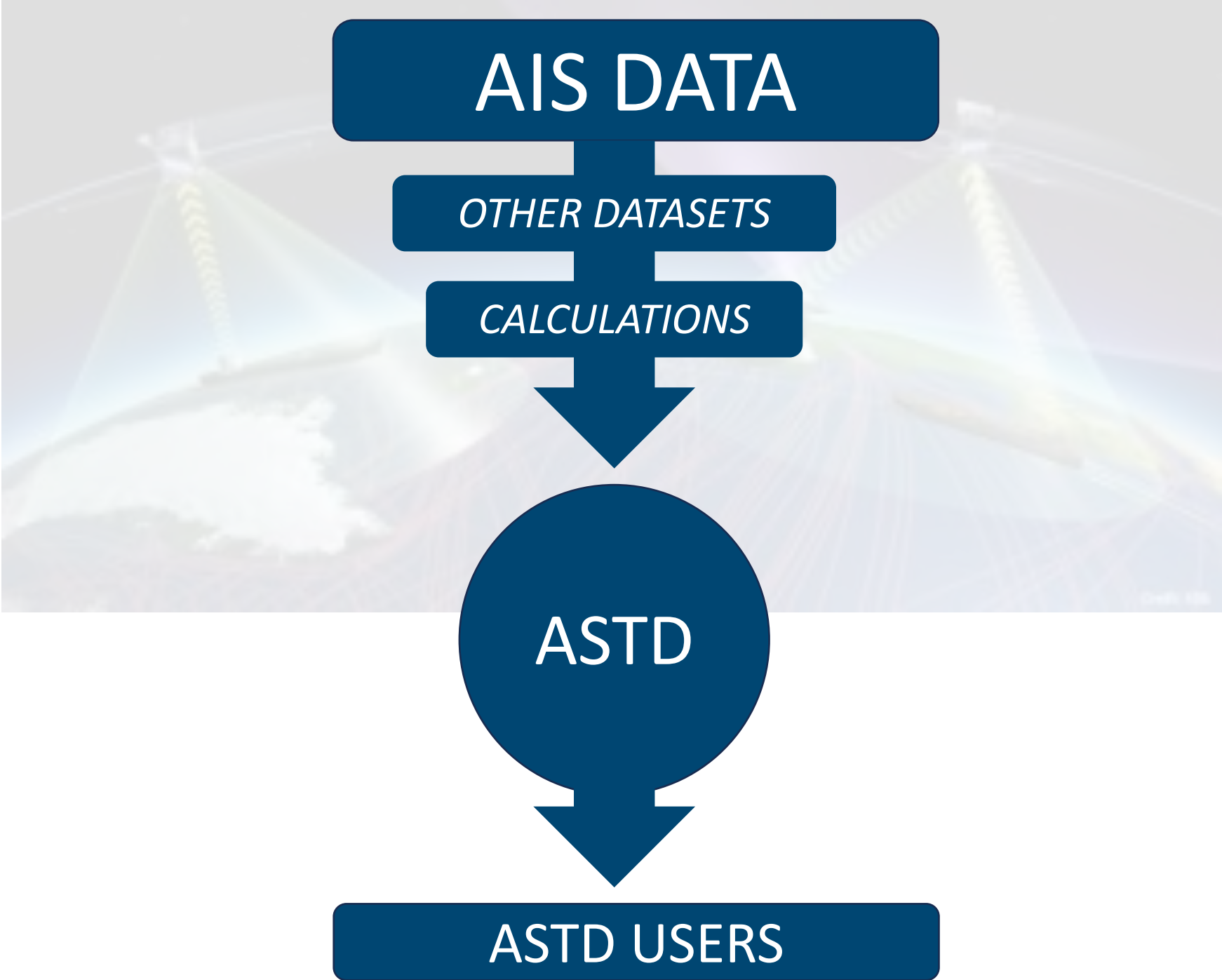
**AIS DATA**

**PROVIDED BY USA AND NORWAY**

# ARCTIC SHIP TRAFFIC DATA (ASTD)



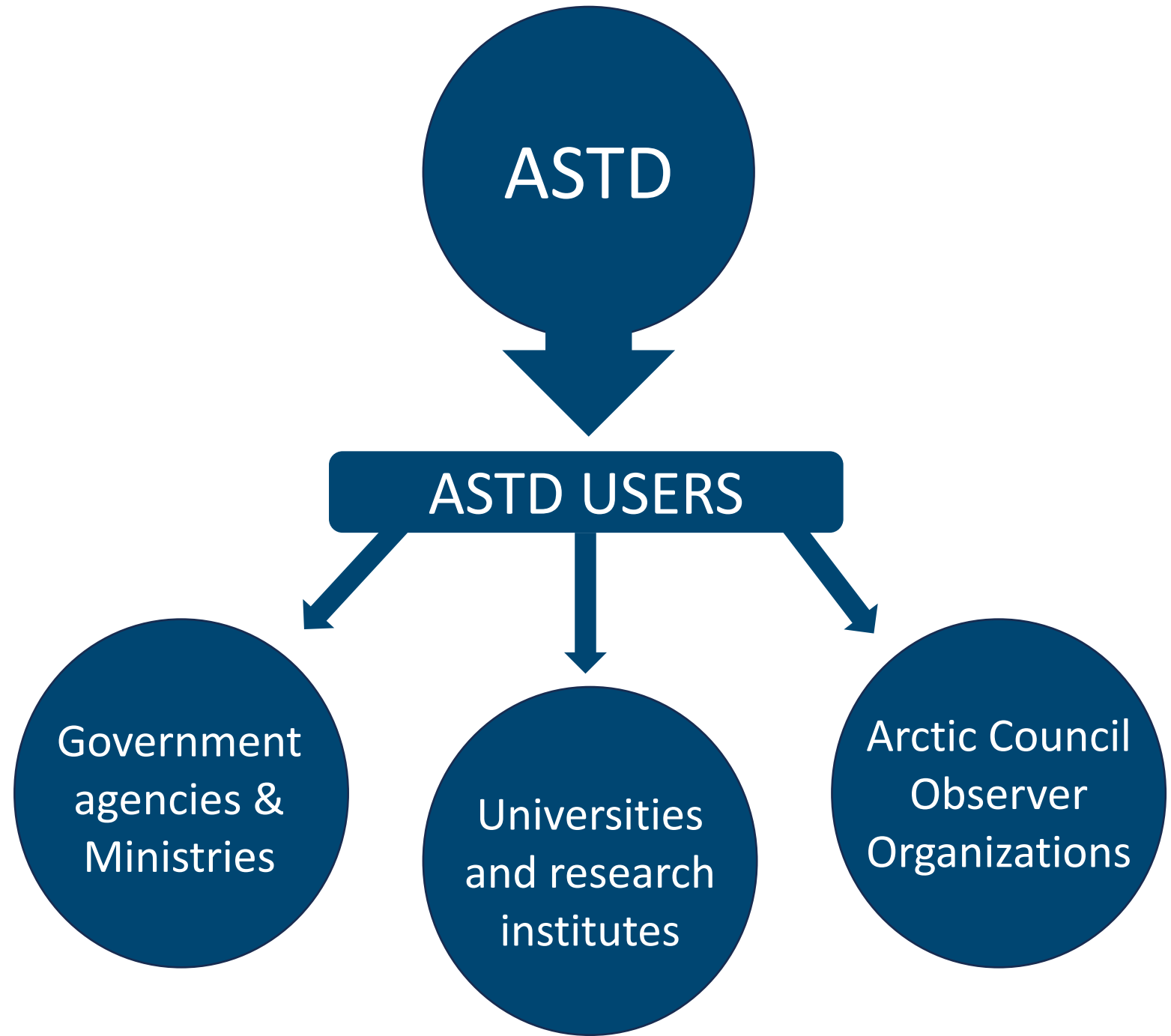
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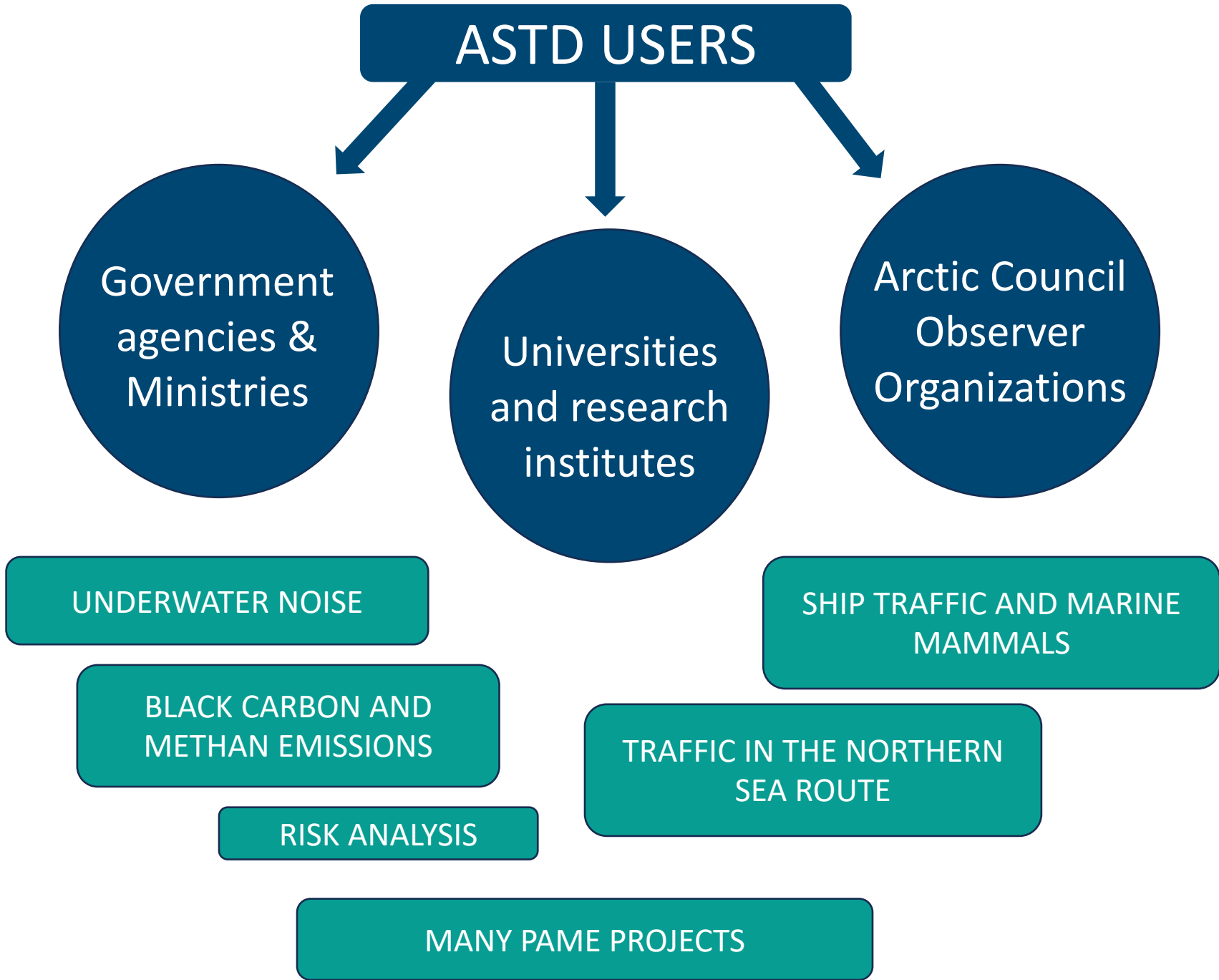
# ARCTIC SHIP TRAFFIC DATA (ASTD)



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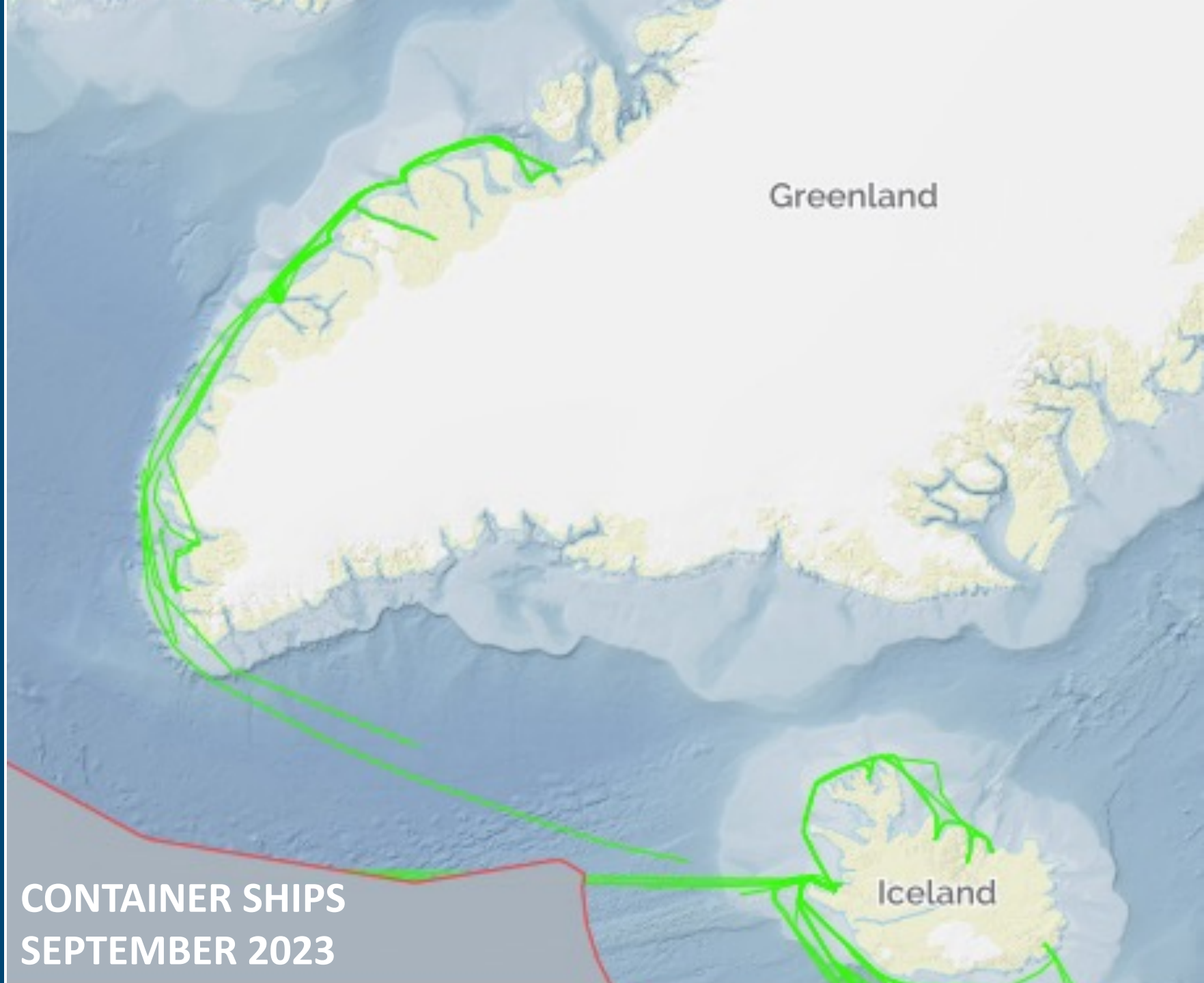


# ARCTIC SHIPPING



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CONTAINER SHIPS  
SEPTEMBER 2023



# ARCTIC SHIPPING



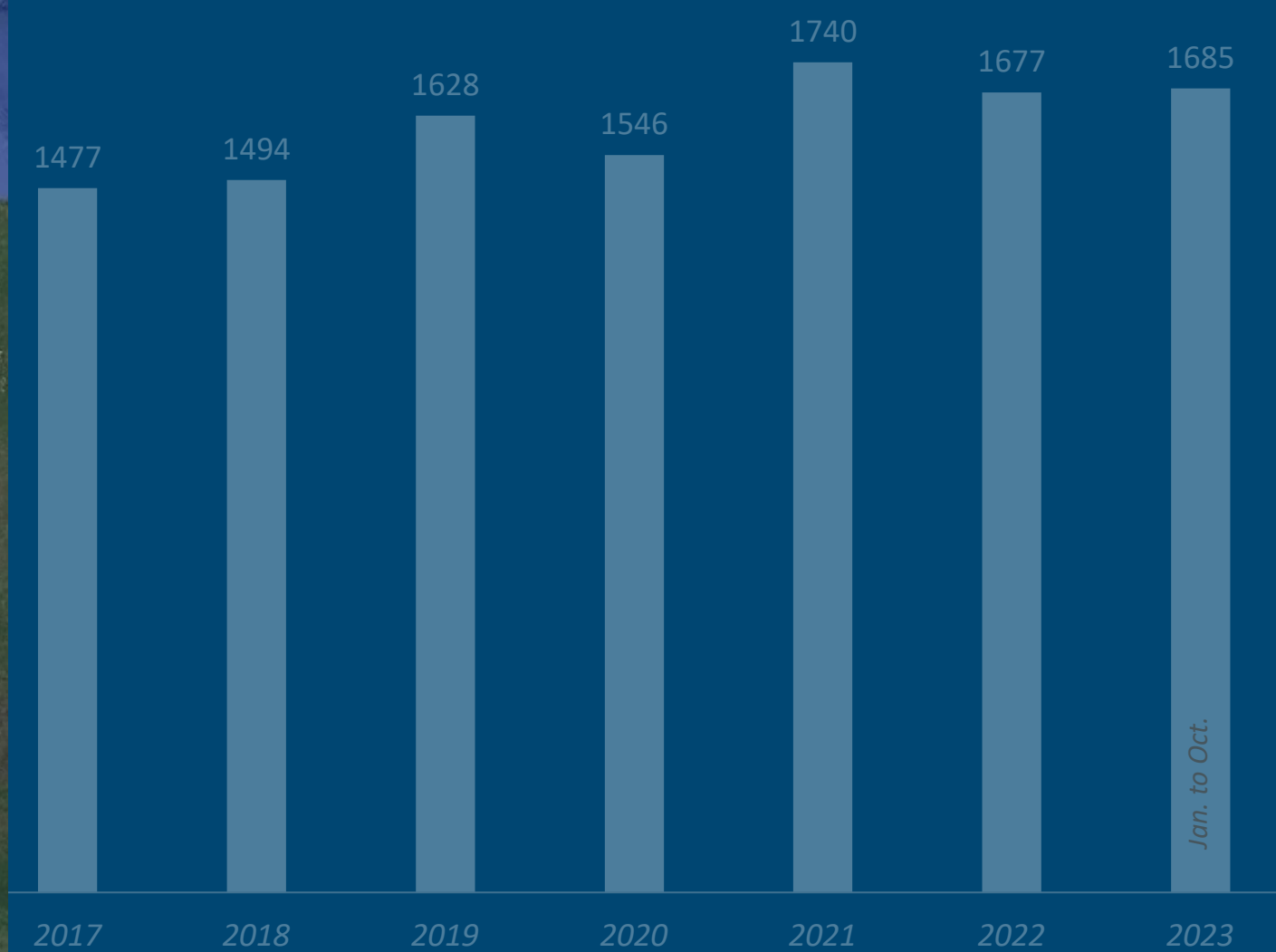
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GAS TANKERS  
SEPTEMBER 2023

# 10 YEAR TREND IN ARCTIC SHIPPING

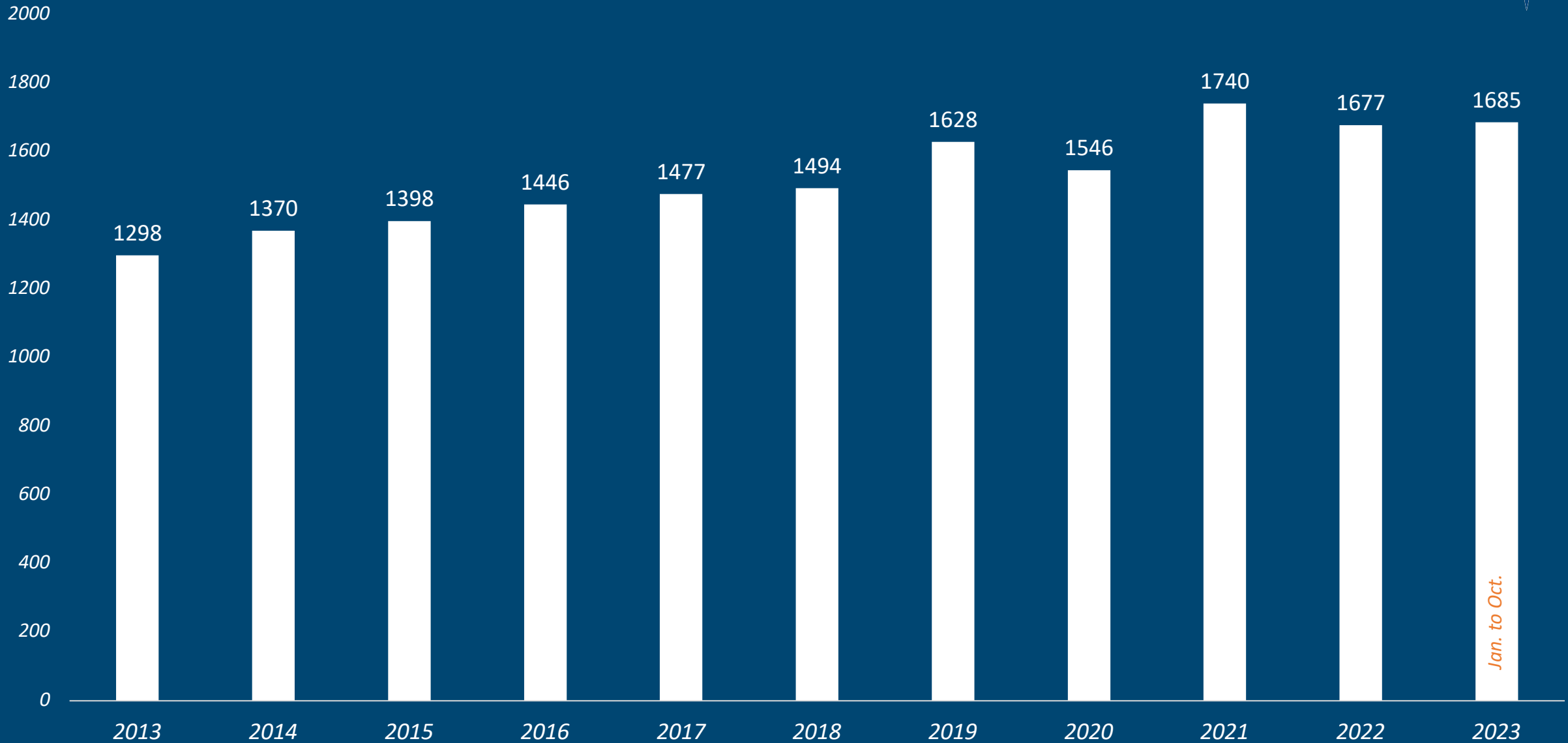
*Arctic Polar Code Area: Unique Ships*





# 10 YEAR TREND IN ARCTIC SHIPPING

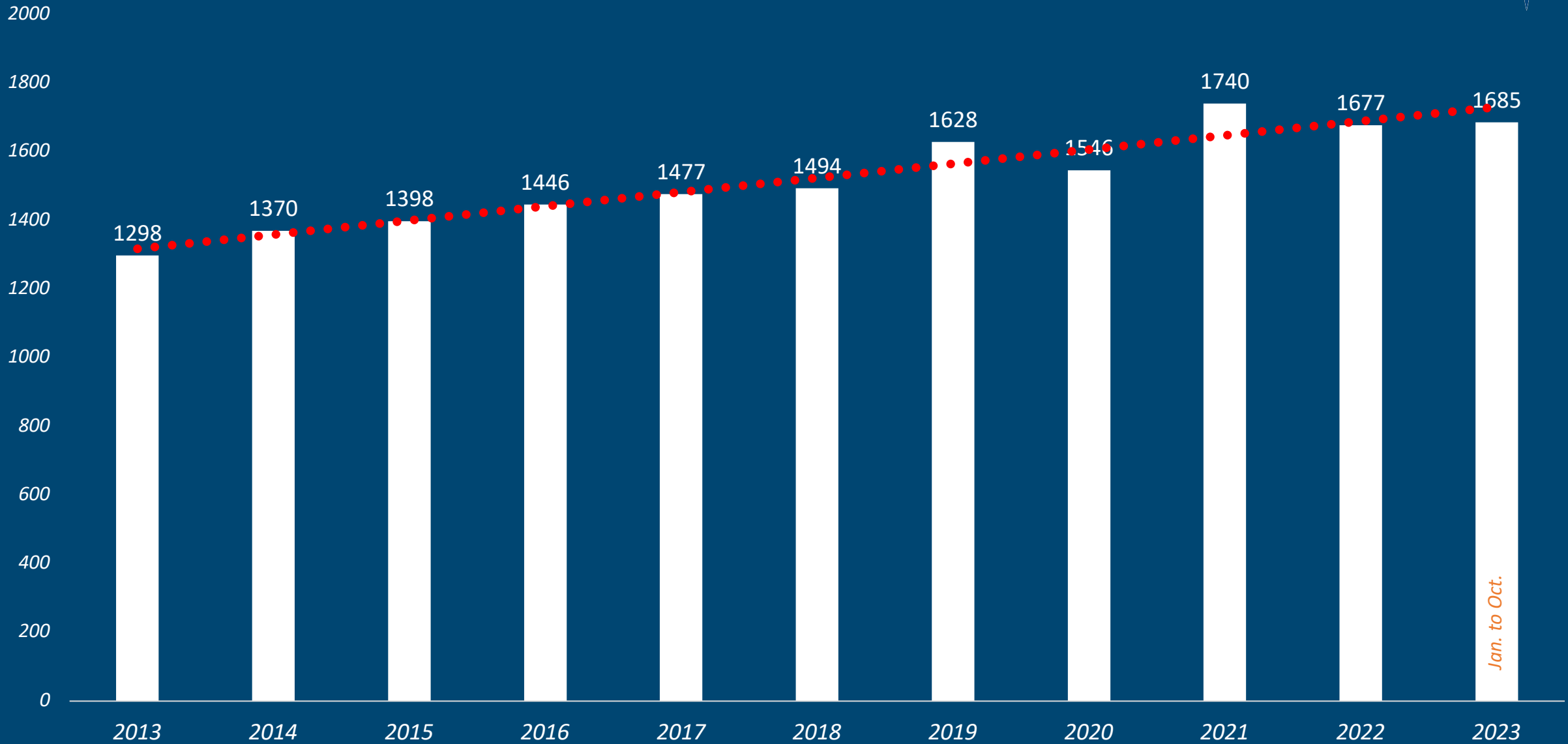
*Arctic Polar Code Area: Unique Ships*





# 10 YEAR TREND IN ARCTIC SHIPPING

*Arctic Polar Code Area: Unique Ships*





# 10 YEAR TREND IN ARCTIC SHIPPING

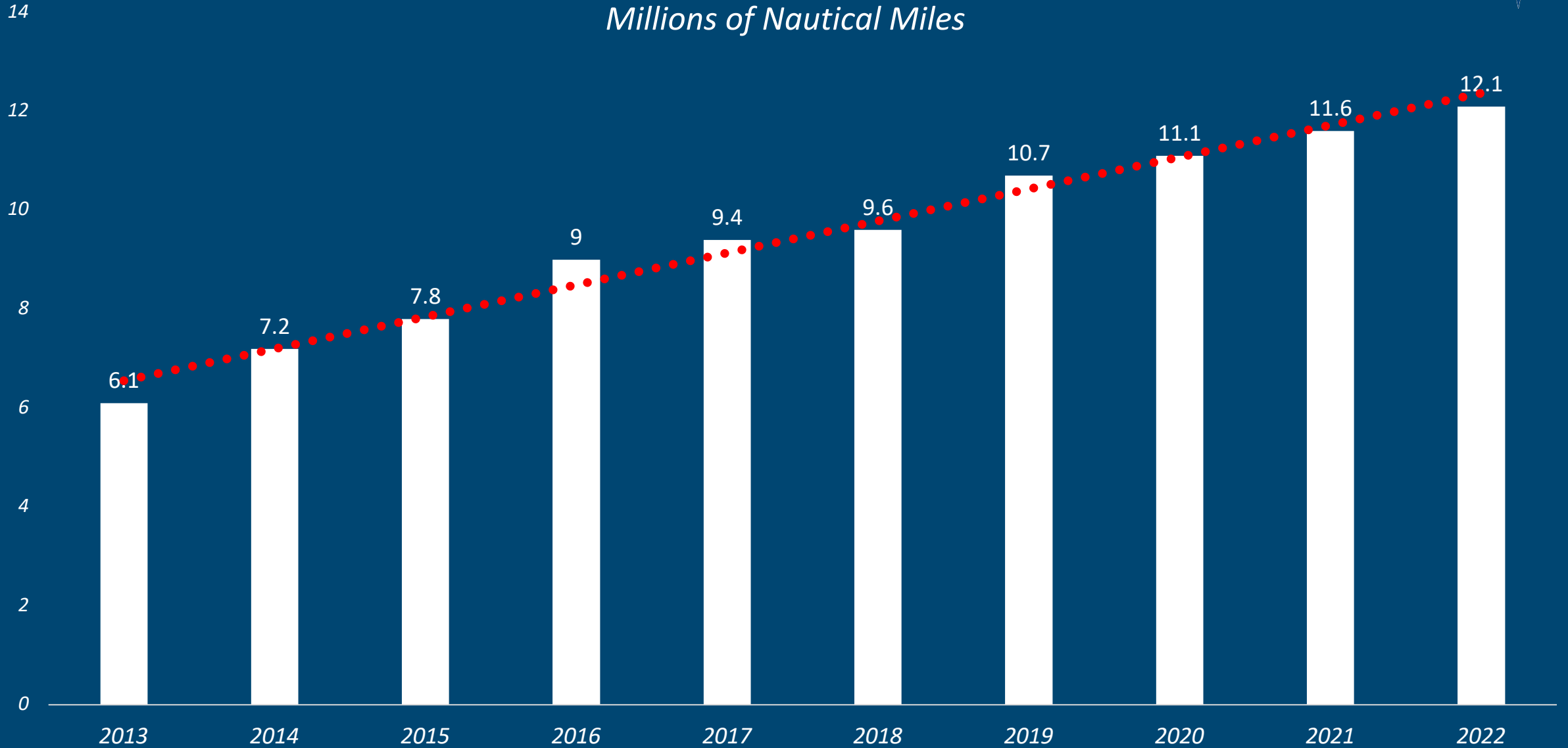
*Arctic Polar Code Area: Unique Ships*





# 10 YEAR TREND IN ARCTIC SHIPPING

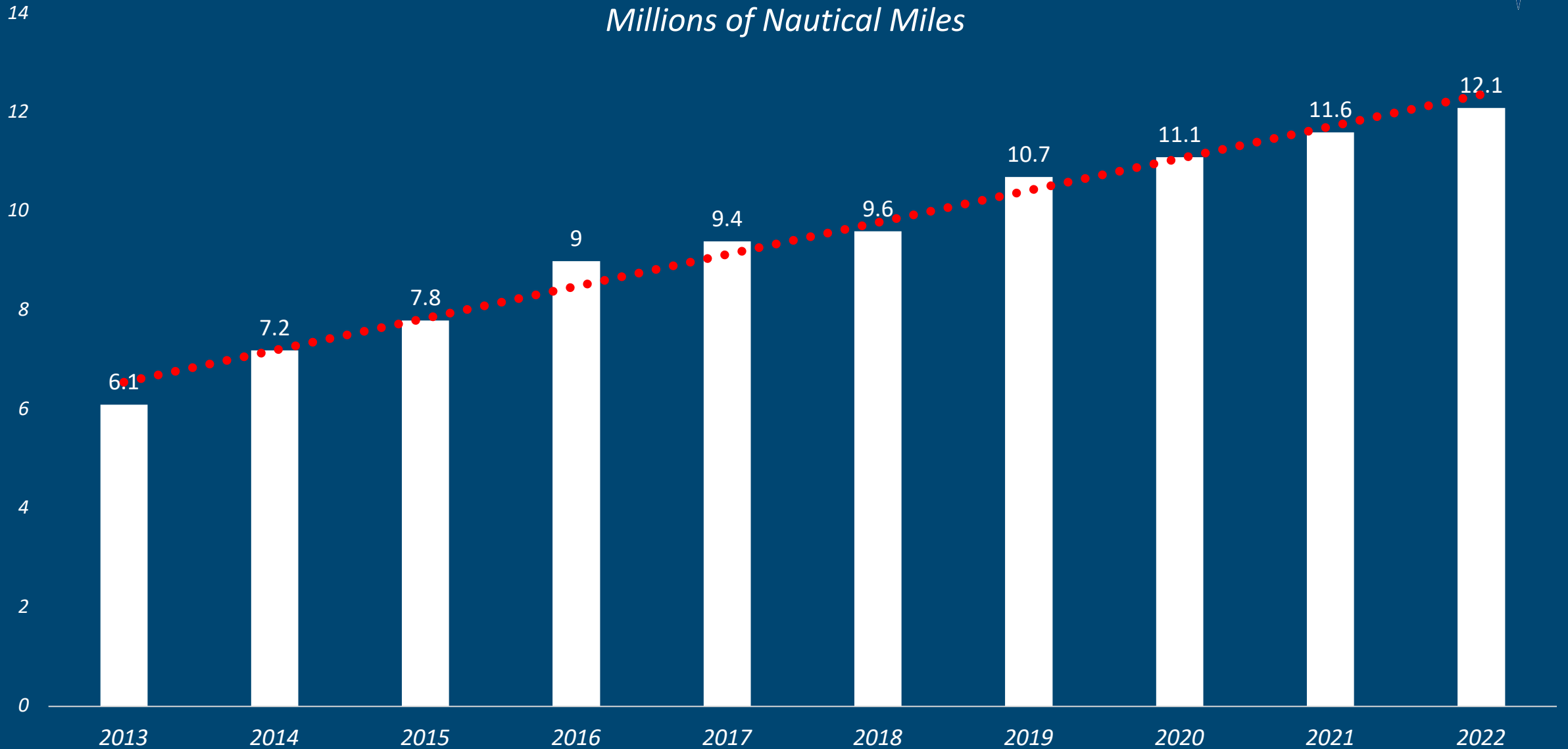
*Arctic Polar Code Area: Distance Sailed  
Millions of Nautical Miles*





# 10 YEAR TREND IN ARCTIC SHIPPING

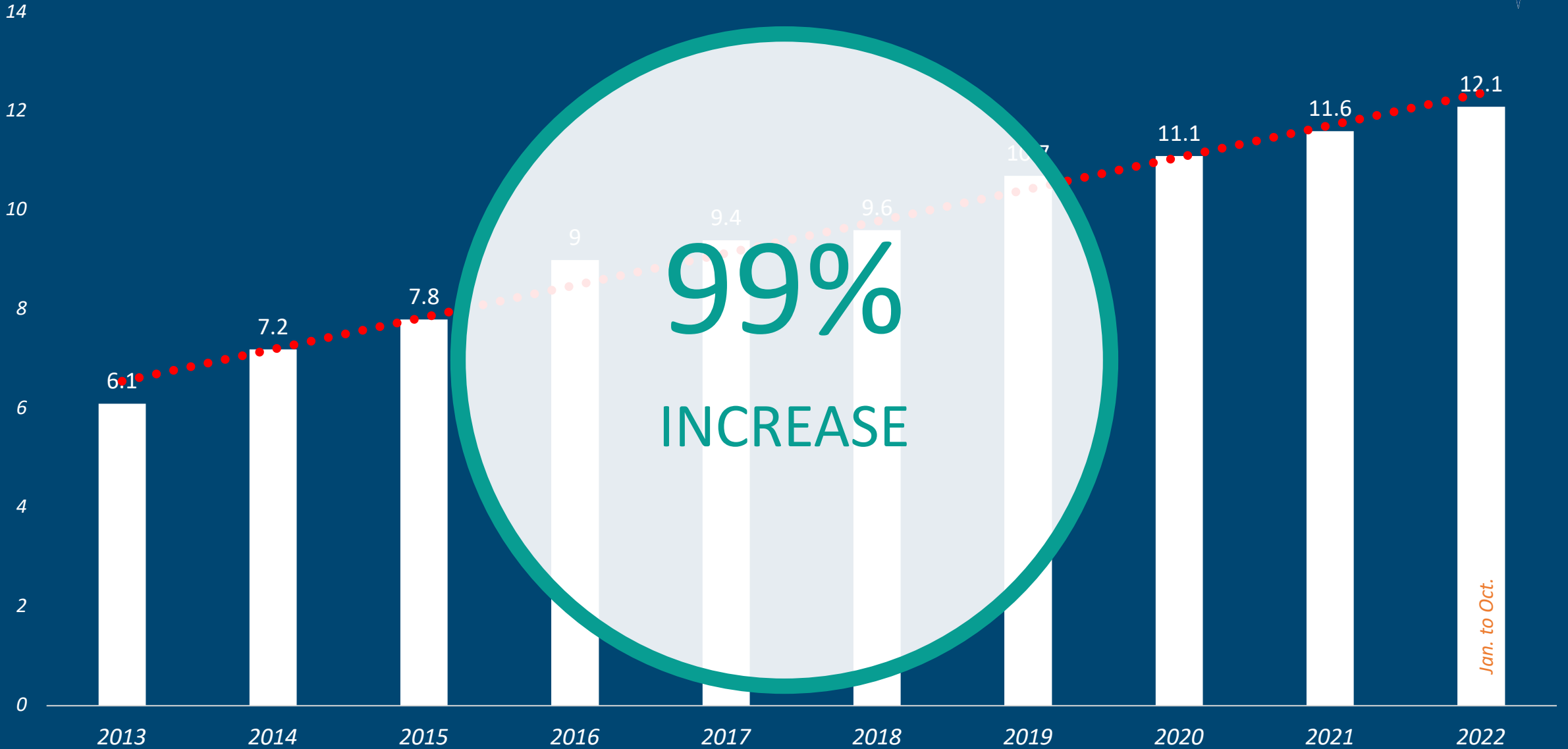
*Arctic Polar Code Area: Distance Sailed  
Millions of Nautical Miles*





# 10 YEAR TREND IN ARCTIC SHIPPING

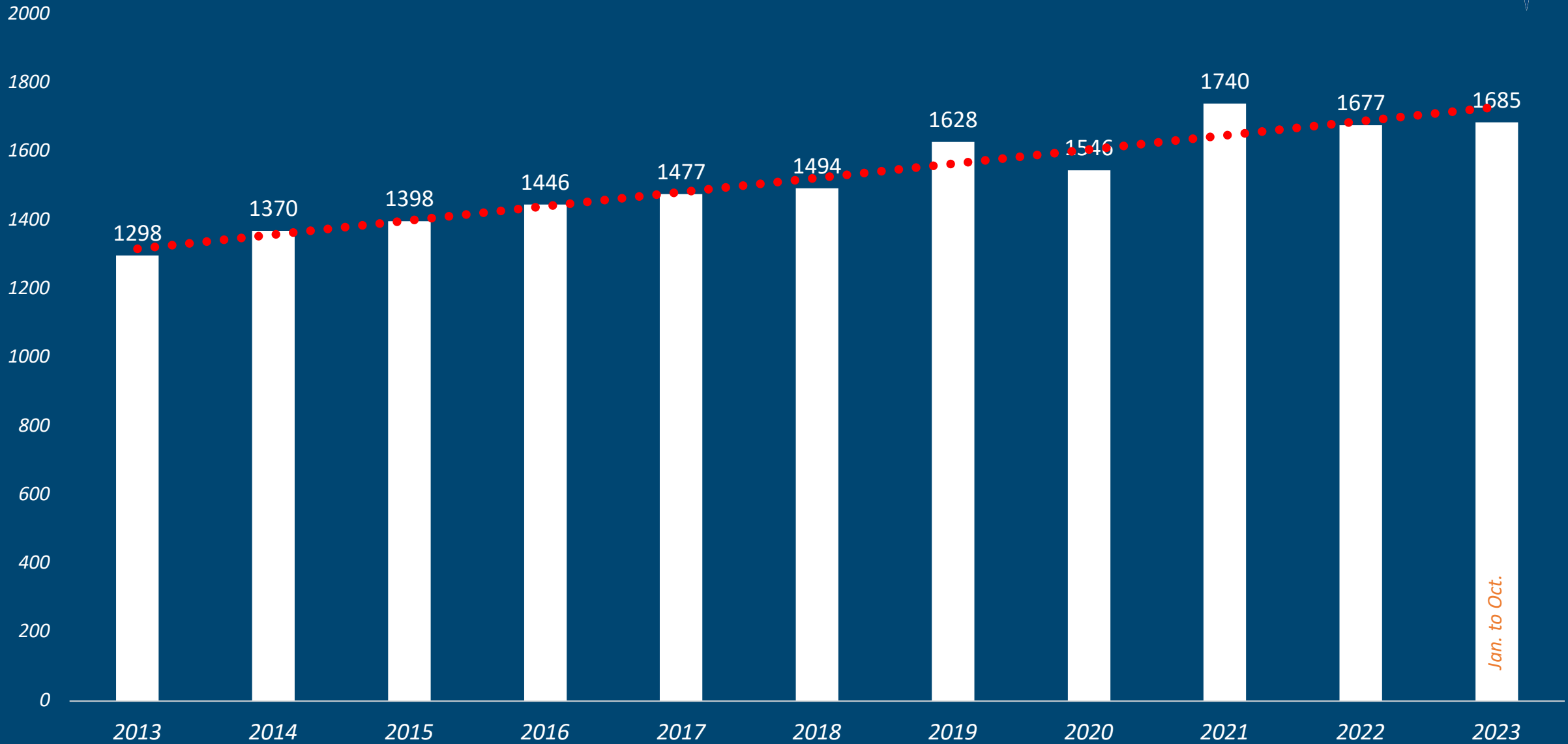
*Arctic Polar Code Area: Distance Sailed*





# 10 YEAR TREND IN ARCTIC SHIPPING

*Arctic Polar Code Area: Unique Ships*

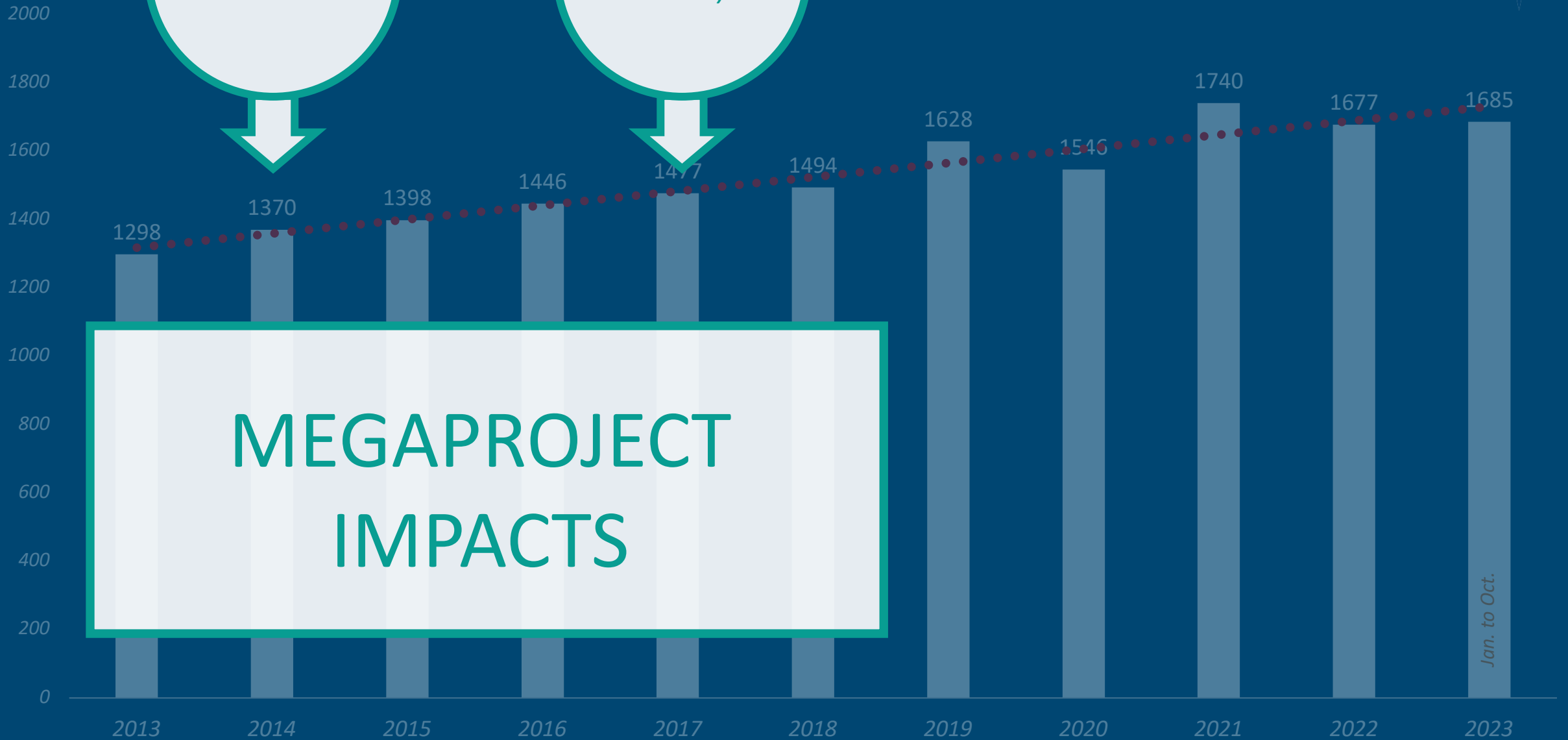




# 10 YEAR TRENDS IN ARCTIC SHIPPING

YAMAL LNG (Yamal Peninsula, Arctic Polar Code Area: Unique Ships)

MARY RIVER MINE (Nunavut)



MEGAPROJECT  
IMPACTS

Jan. to Oct.



# MARY RIVER MINE: BULK CARRIER TRAFFIC



# MARY RIVER MINE: BULK CARRIER TRAFFIC



71 SHIPS

139.000

NM SAILED

2013



144 SHIPS

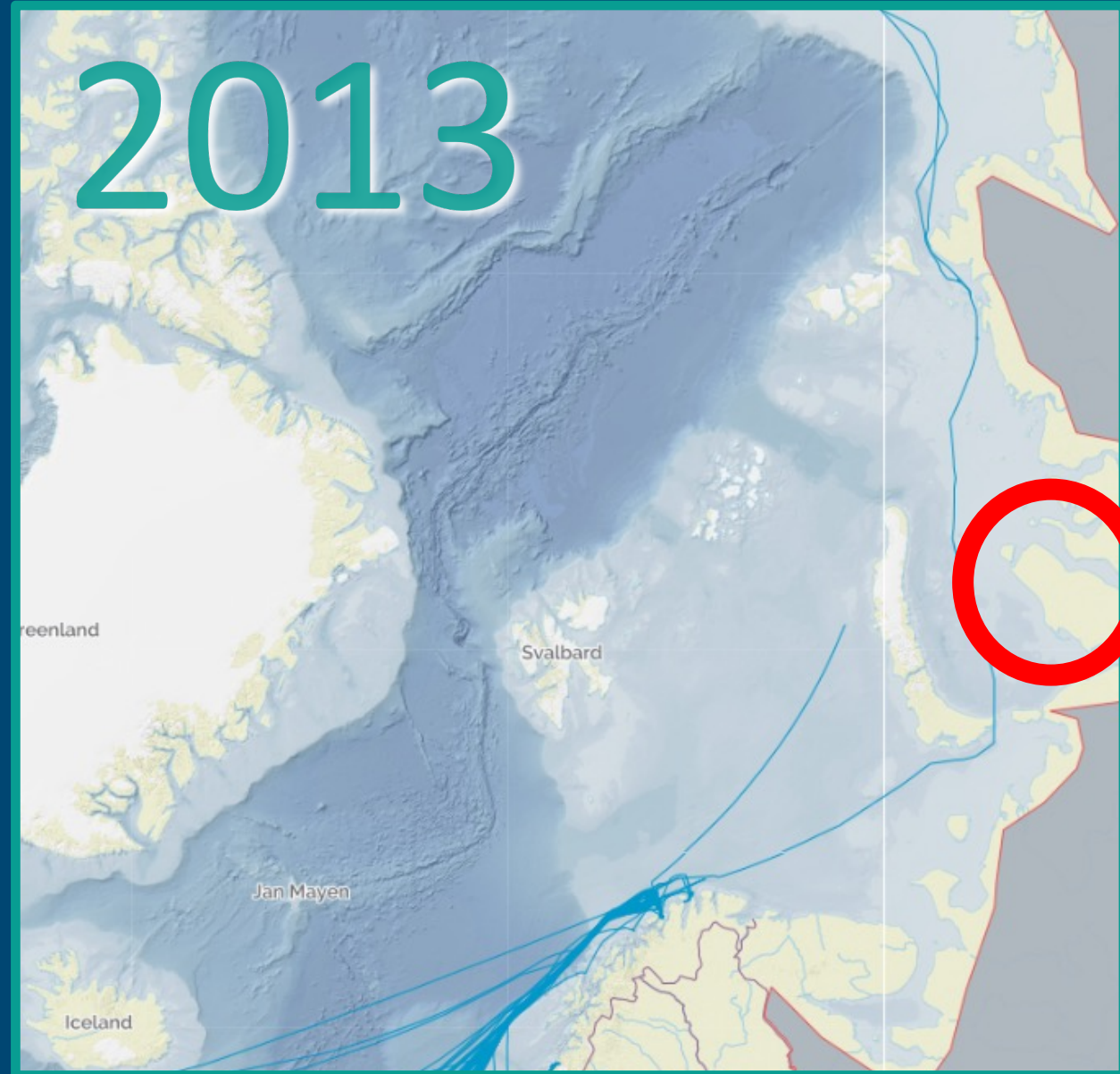
355.000

NM SAILED

2022

# YAMAL LNG PROJECT: GAS TANKER TRAFFIC

2013



2022



# YAMAL LNG PROJECT: GAS TANKER TRAFFIC

2013

1 SHIP

6.800

NM SAILED

2022

26 SHIPS

750.000

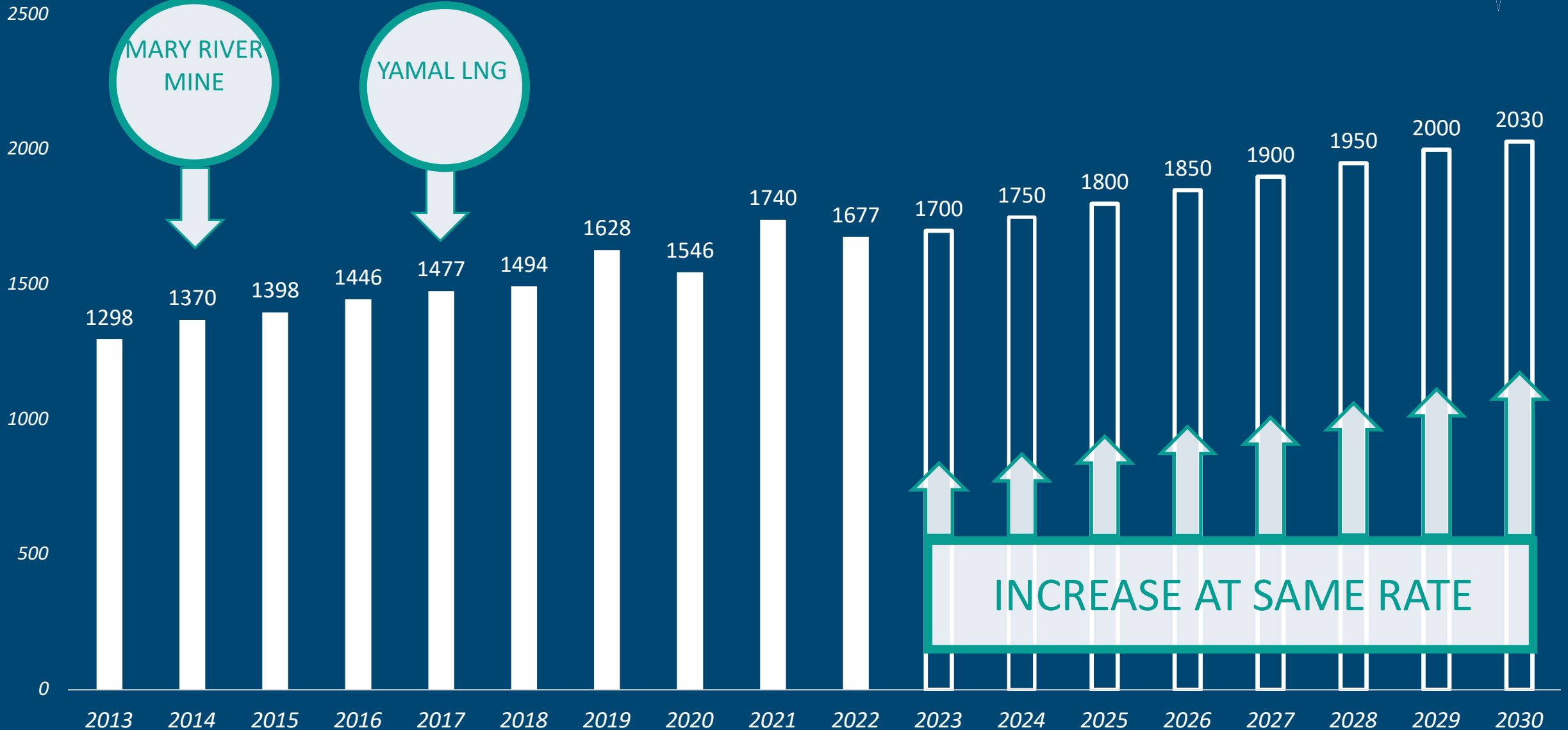
NM SAILED





# 10 YEAR TREND IN ARCTIC SHIPPING

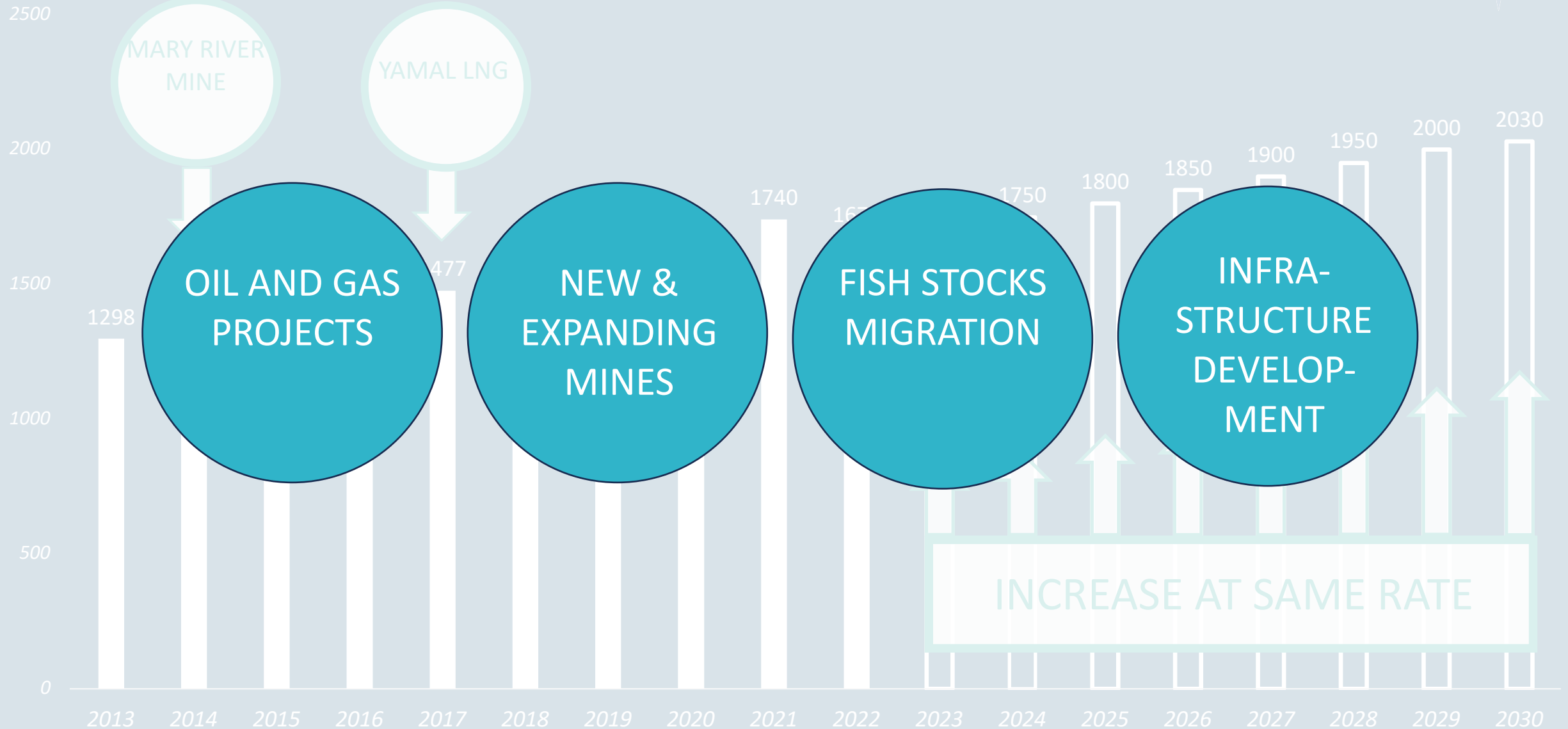
*Arctic Polar Code Area: Unique Ships*





# 10 YEAR TREND IN ARCTIC SHIPPING

*Arctic Polar Code Area: Unique Ships*



THANK YOU



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