



Norwegian Ministry  
of Climate and Environment

# **Nordic roadmap for the introduction of sustainable zero-carbon fuels in shipping – Workshop 15 November 2022**

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Specialist Director

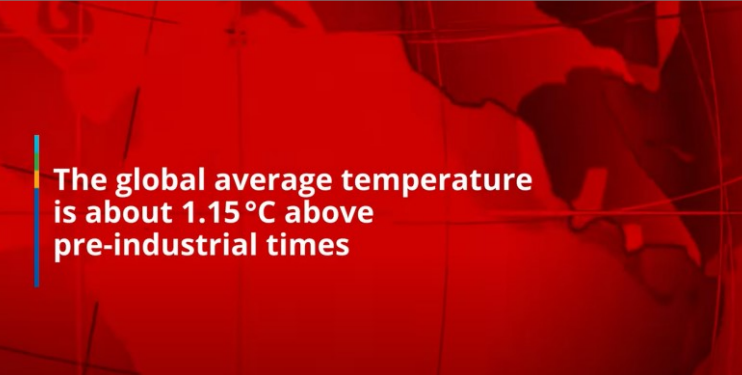


# 06 November 2022

## At the opening of COP 27

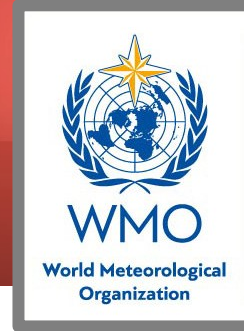


2022 saw unprecedented melt in Europe's glaciers



The global average temperature is about 1.15°C above pre-industrial times

Earth just had the eight warmest years on record

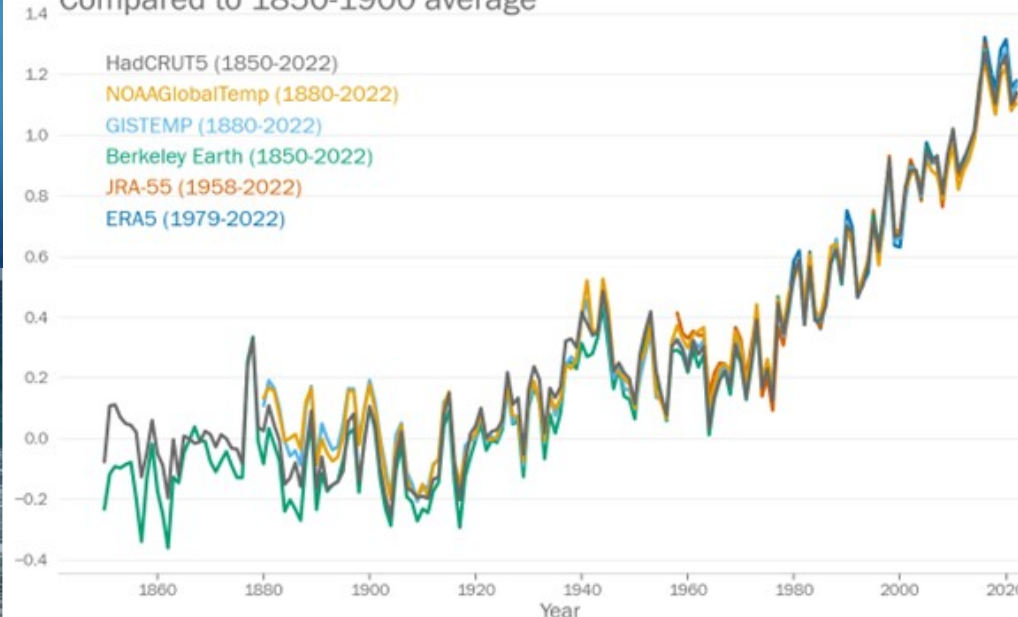


and flooding affected millions and cost billions



Ocean heat is at record levels

Global mean temperature  
Compared to 1850-1900 average



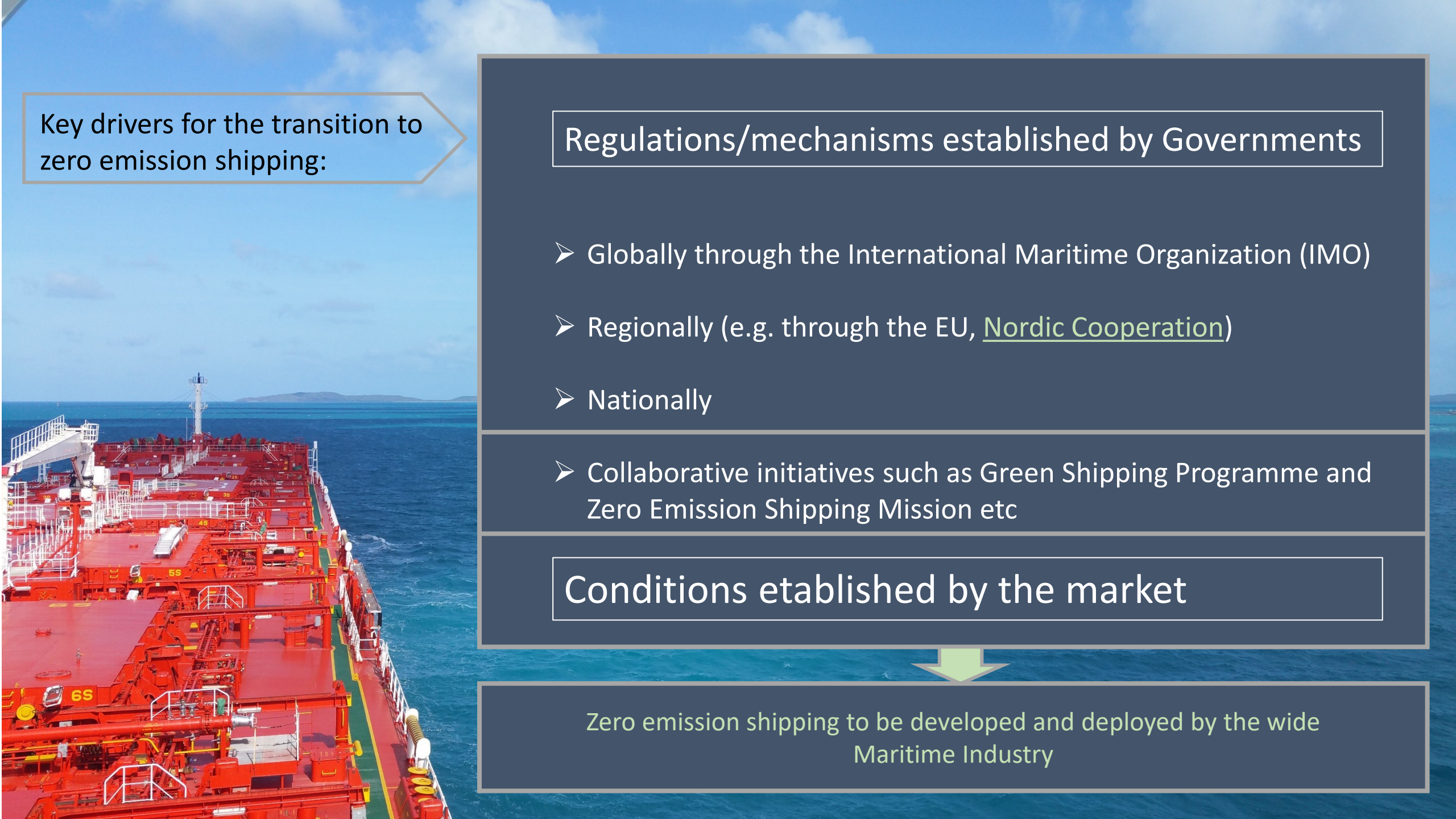
This will affect everyone and everything on the planet



The rate of sea level rise has doubled since 1993



For hundreds and thousands of years




Key drivers for the transition to zero emission shipping:

## Regulations/mechanisms established by Governments

- Globally through the International Maritime Organization (IMO)
- Regionally (e.g. through the EU, Nordic Cooperation)
- Nationally
- Collaborative initiatives such as Green Shipping Programme and Zero Emission Shipping Mission etc

## Conditions established by the market

Zero emission shipping to be developed and deployed by the wide Maritime Industry



The importance of strengthened Nordic Cooperation to enable decarbonization of shipping

- A long and stable tradition on green policies
- A complete and innovative maritime cluster
- Strong technical and environmental scientific knowledge hubs
- High capacity in relevant government agencies
- Financial capacities

*Meaning that we will achieve more by cooperating, and it will be beneficial for our maritime industry.*

*...if we can't do it, who can?*



*"Nordic Roadmap for the introduction of sustainable zero-carbon fuels in shipping"*

**Three Goals:**

1. The Nordic countries have gained a technical knowledge base and provided a framework for regulatory development of promising alternative fuels.
2. The Nordic countries have established a strategy for infrastructure development and for the use of harbours as green energy hubs.
3. The Nordic countries have established a platform for improved cooperation between Nordic industries and companies, and can promote the high level of competence and competitiveness of Nordic companies and institutions when use of carbon sustainable zero-carbon picks up globally.



Oslo 3 May 2022: The Nordic Ministers for the Environment and Climate approved a Declaration on zero emission shipping routes



***I'm very pleased with the agreement for the Nordic Region to pioneer the green transition of shipping.  
Espen Barth Eide***

*Agree* that a global availability of clean maritime fuels, zero-emission vessels, alternative propulsion systems, and the availability of landside infrastructure to support these, is imperative for a rapid transition to clean international shipping;

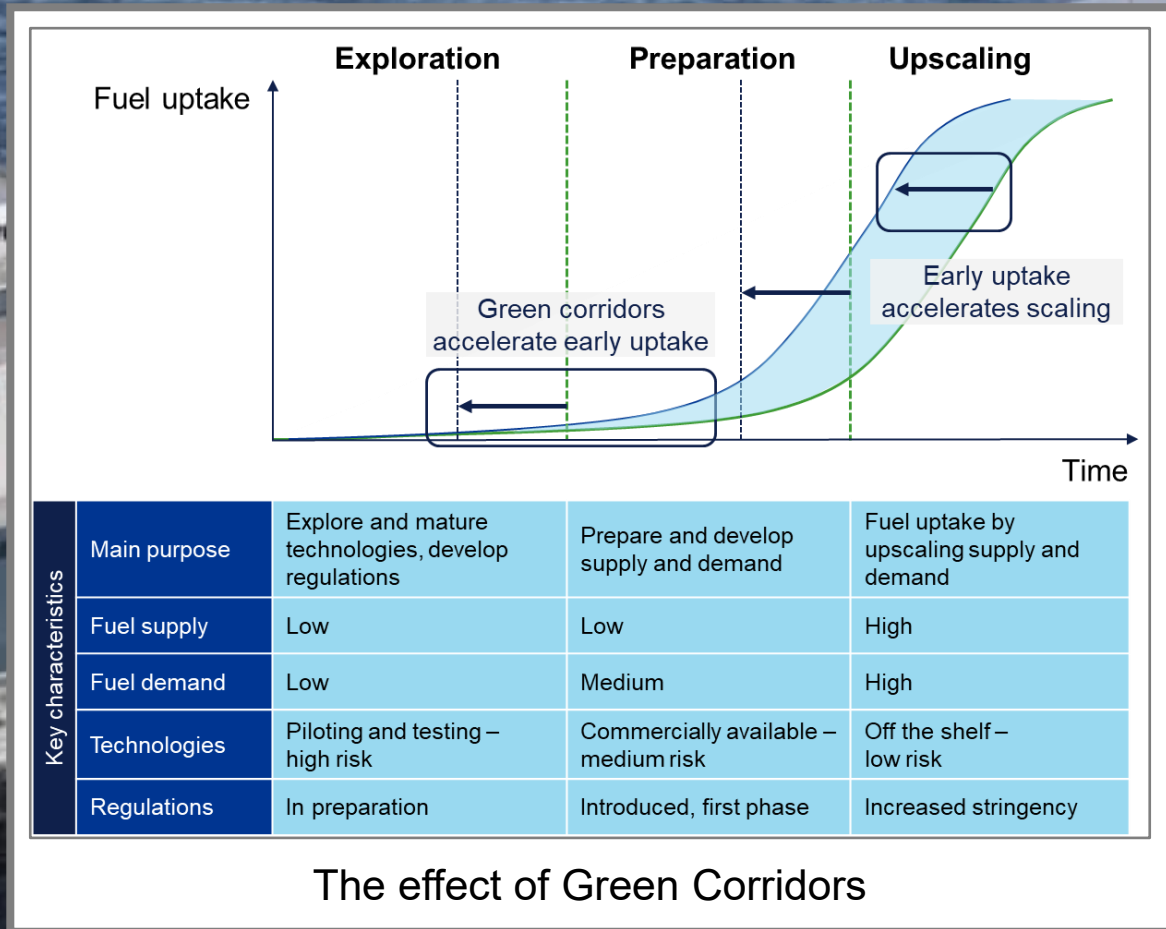
*Agree also* on the benefits of Nordic cooperation taking a leading role in transitioning the shipping sector inter alia through supporting decarbonizing most of the extensive Nordic ferry transport by 2030;


*Further agree* to support the establishment of zero emission shipping routes for ferry transport between the Nordic countries, and

*Decide* to establish a pilot project to identify such routes and interested actors from the shipping industry to enter into partnerships to realize zero emission shipping on the identified routes. The pilot project should create conducive conditions for gaining experience with clean maritime fuels.

# The Roadmap Project

# The Green Corridors Pilot Project



A photograph of a sea with a sailboat and a cargo ship on the horizon, and large rocks in the foreground. The sky is blue with some clouds. The text is centered in the upper half of the image, enclosed in a thin brown border.

Nordic cooperation  
will lead  
and will forster  
decarbonization of shipping

*Thank you for your attention!*