

# Nordic Roadmap For Future Fuels

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**DNV**

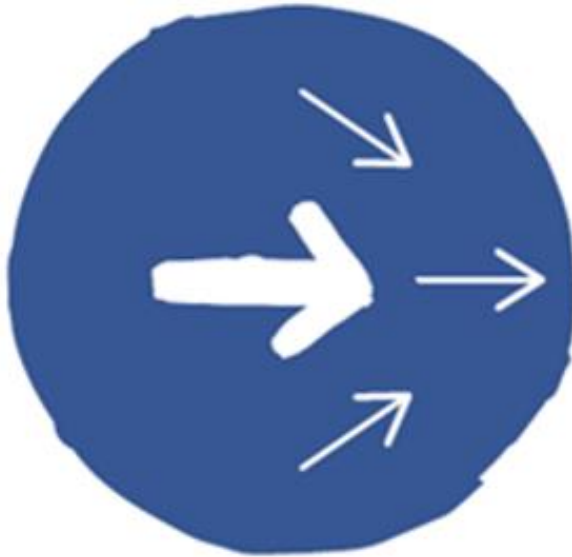
WHEN TRUST MATTERS

# The Nordic commitment

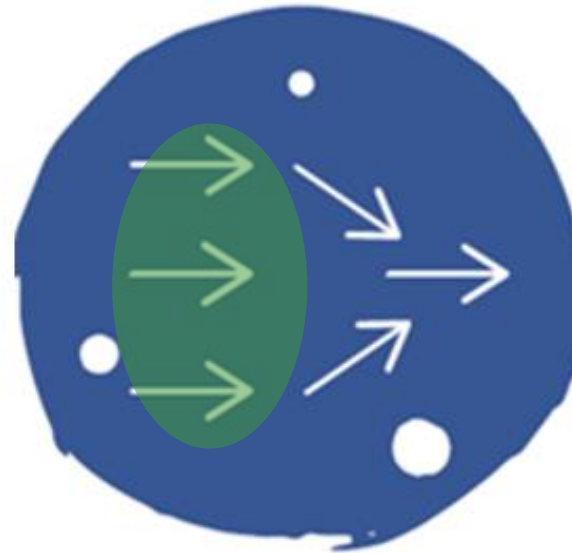
- ❖ **Declaration on Zero Emission Shipping by 2050** (COP26, November 2021)
- ❖ **Clydebank Declaration for green shipping corridors** (COP26, November 2021)
- ❖ **Ministerial Declaration on zero emission shipping routes between the Nordic countries** (May 2022)

# Three potential pathways for a global fuel transition in shipping

## The Nordics



1) Spread from a strong first mover country to other, and eventually globally



2) Independent national-level spread  
– *Multiple countries in parallel*



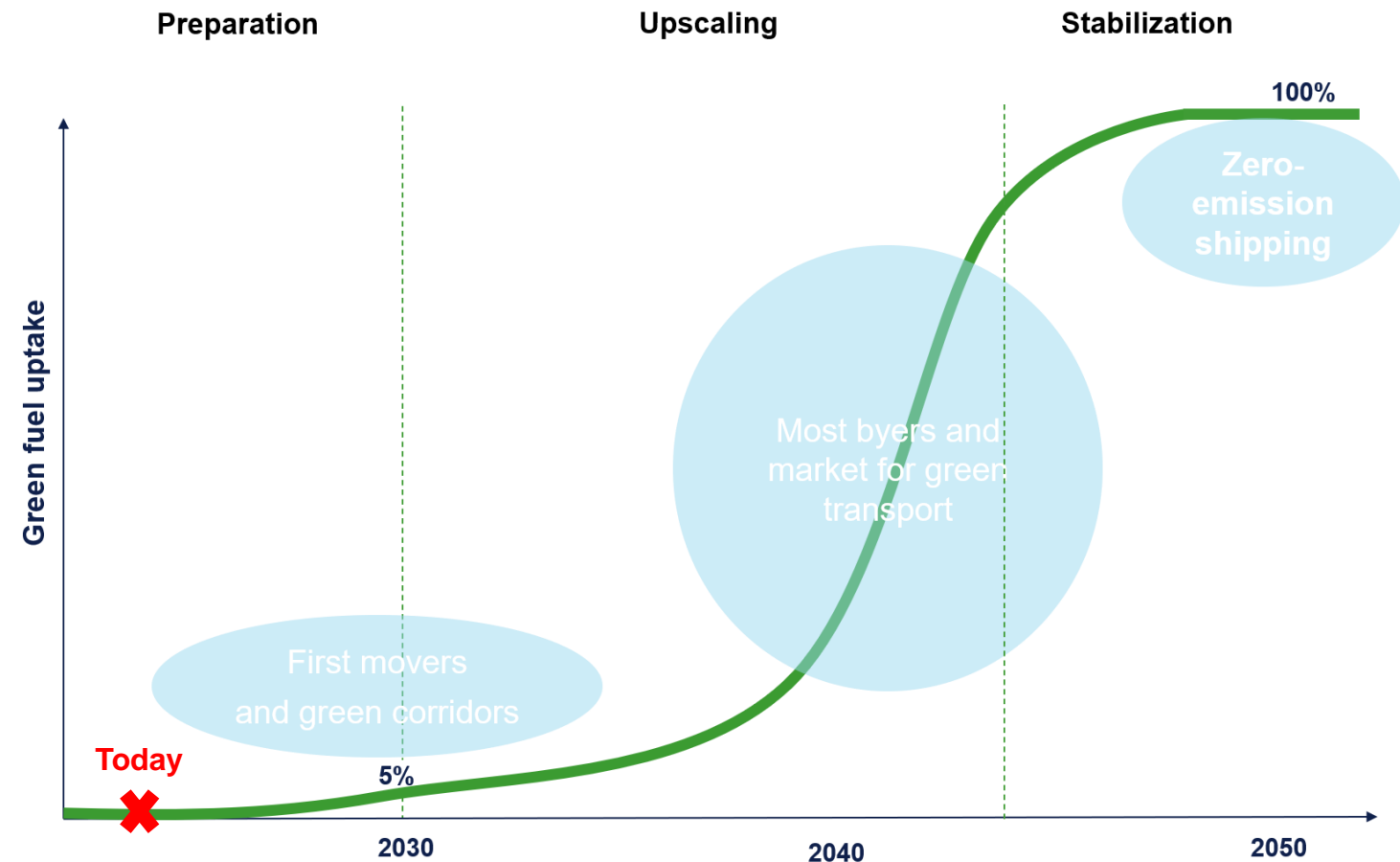
3) Global actions drive international spread

# The uptake of zero-emission fuels is assumed to follow an S-curve

**Fuel transition plan** aiming to accelerate the uptake of green fuels

- Stakeholder actions to overcome barriers
- Assumes that the fuel transition follows an **S-curve**
- Green shipping corridors will be key enablers for acceleration

Critical for success to get input from all players in the maritime value chain



The S-curve can describe the market development of many new technologies, including up-take of LNG and battery powered ships

# Roadmap content

DRAFT

Zero-emission by 2050

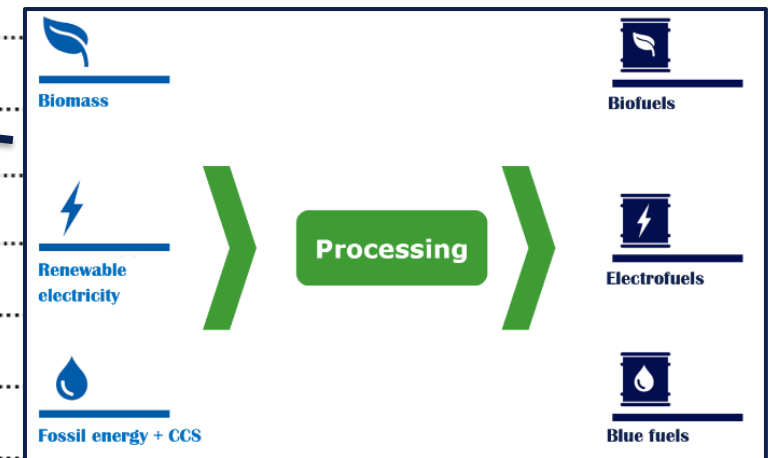
Barrier focus – what are the key challenges?



Actions by stakeholders

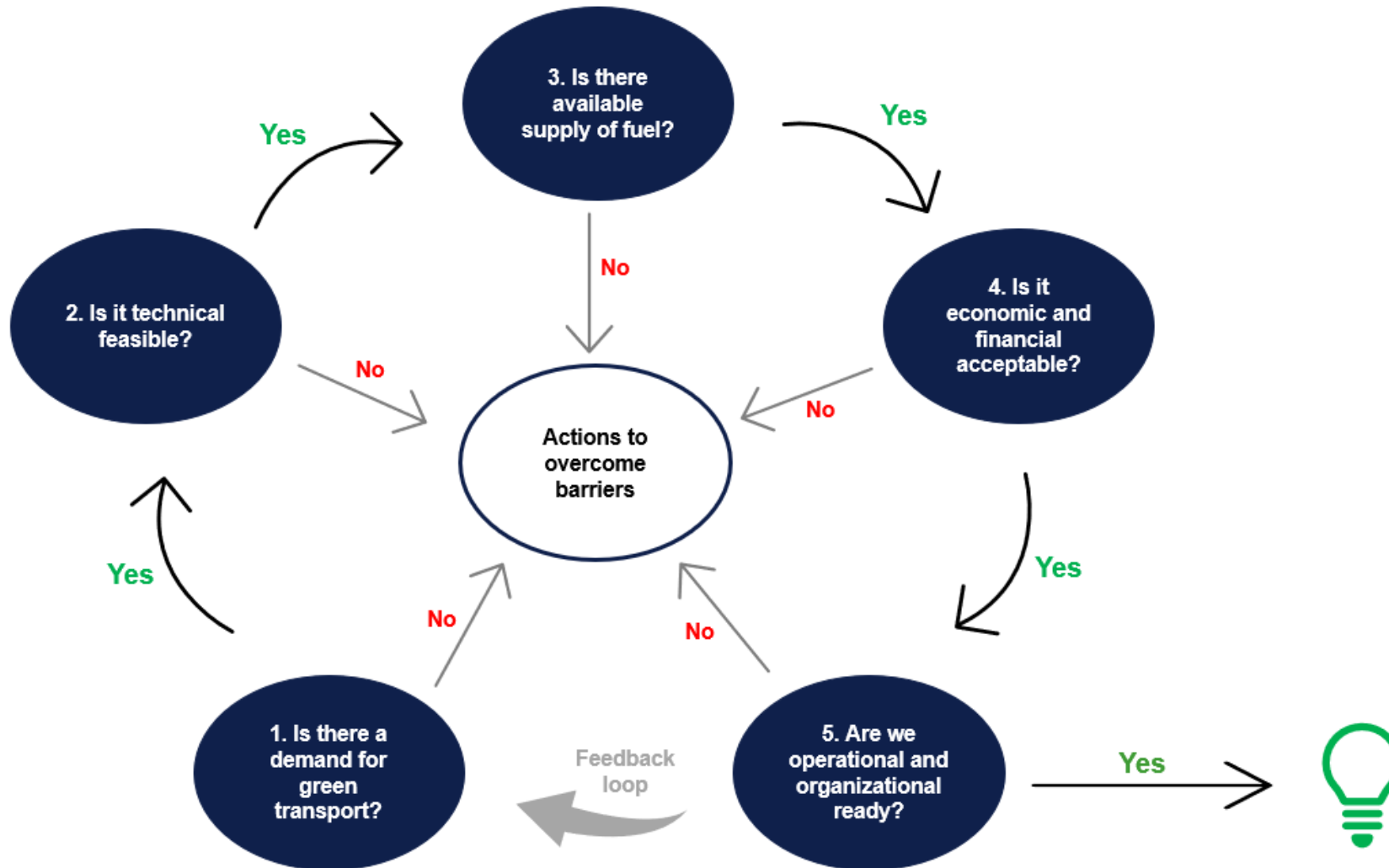


- Summary.....
- Foreword.....
- Contributing and supporting partners.....
- 1 Introduction.....
- 2 The current situation for Nordic shipping.....
  - 2.1 What is Nordic shipping today?.....
  - 2.2 What is the status of the green transition in Nordic shipping?.....
  - 2.3 Status on financing green ships and associated infrastructure.....
- 3 Fuel candidates for zero-emission Nordic shipping.....
  - 3.1 Candidates for zero-emission shipping.....
  - 3.2 Barriers for the fuel candidates.....
- 4 Goals and vision.....
- 5 This must happen.....
- 6 Milestones.....



# The barrier wheel

– *The process of overcoming barriers*



# Nordic Roadmap Workshop



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