

Roadmap workshop – Helsinki 3. mai

13:45 Introduction to the Nordic Roadmap (15 min, Dorthe)

14:00 Workshop (facilitated by Erik)

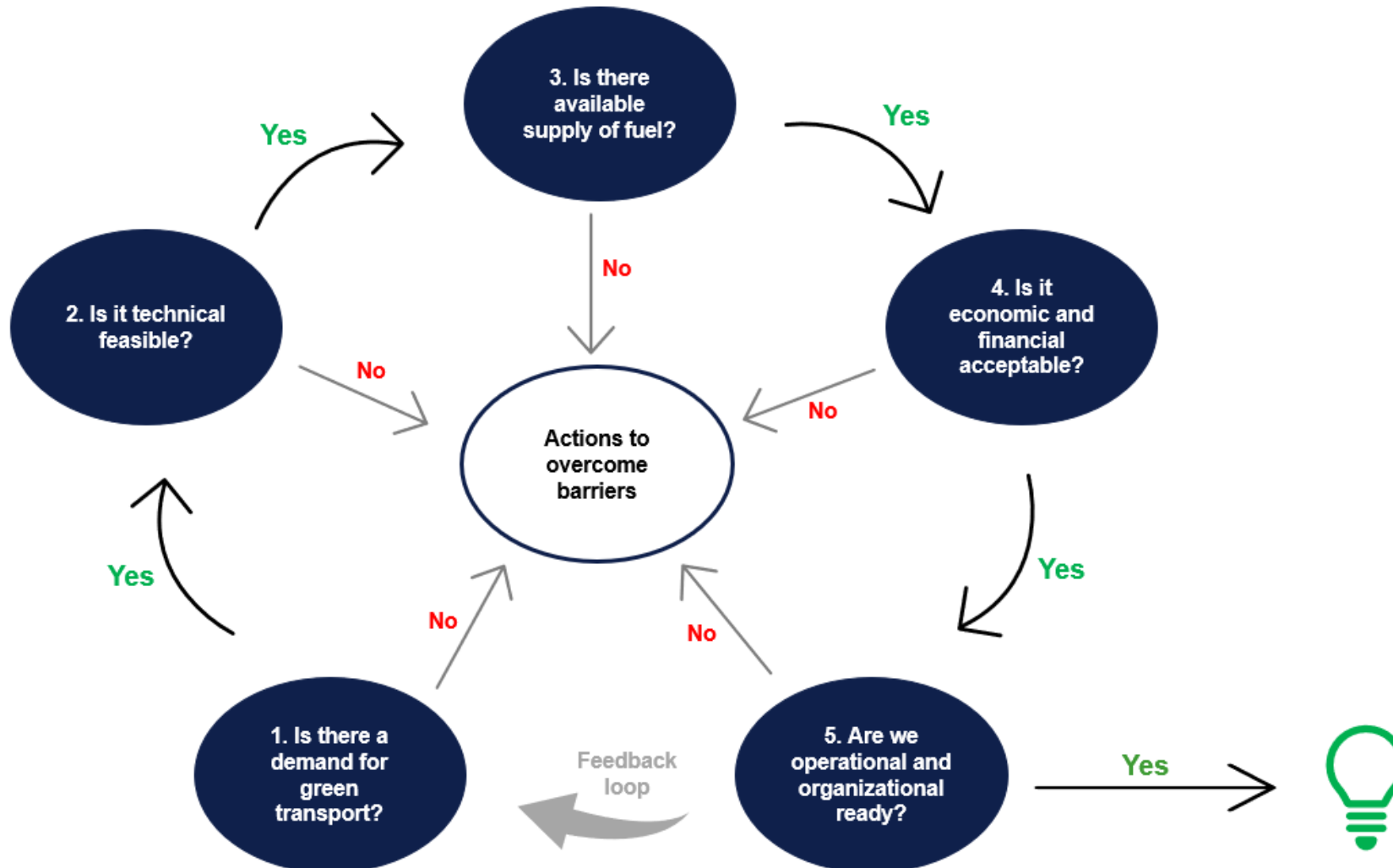
- 14:00 Introduction to workshop, (15 min)
- 14:15 Breakout session in groups, 50 min
 - 1 digital group, 3 physical
- 15:05 Report back, 20 min

15:25 Overall wrap-up (5 min)

15:30 End of conference

The barrier wheel

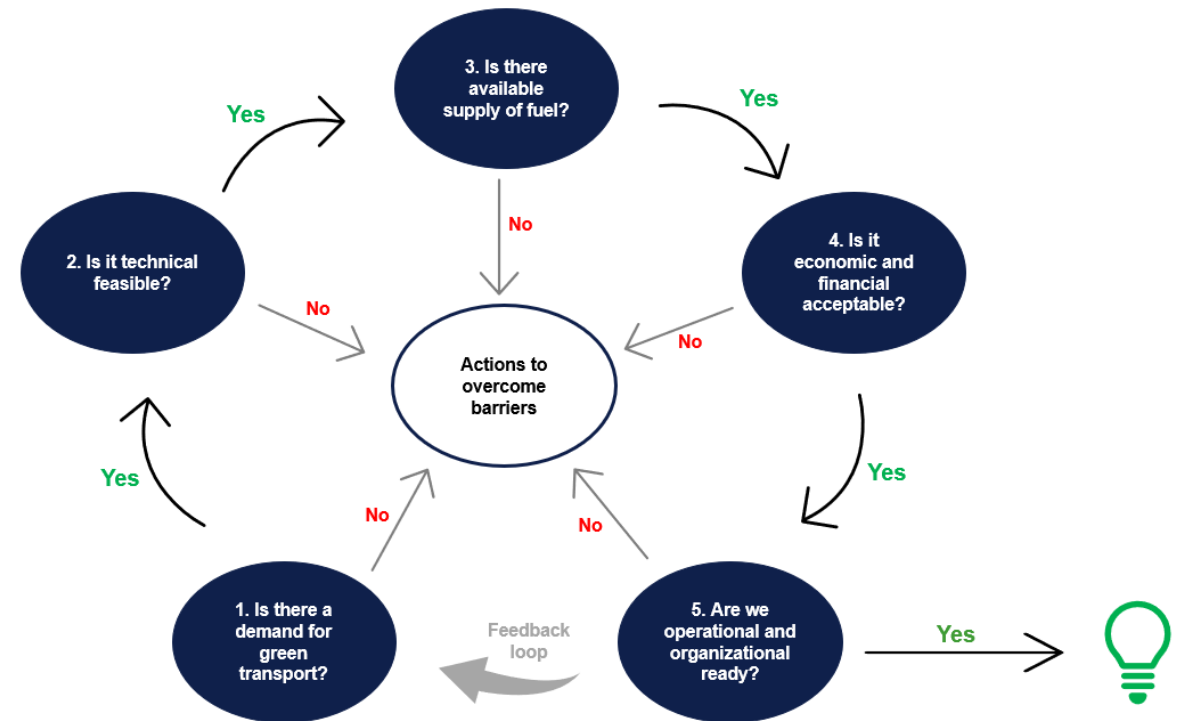
– *The process of overcoming barriers*



Roadmap workshop

Apply the barrier wheel on intra-Nordic ropax routes

- Five groups physically present + 2 digital groups
- Each group chooses one case from the selected 9 intra-Nordic ropax routes
- Go through the questions in the barrier wheel
 - If yes, go to next question
 - If partly or no, identify solutions and specify actors
- Use the template – either on pc or by hand
- Send the case summary to Dorthe (or hand it over if written by hand)
- If important information/judgements are left out, feel free to elaborate and send it to Dorthe after the workshop



Intra-Nordic routes

Nr	Route	Voyage distance [nm]	Energy demand per trip [MWh]	Fuel feasibility	Total fuel consumption [tonnes]	Annual number of trips	Annual number of vessels	Spin-off potential
1	Åbo (Turku) – Stockholm	160	100-500	Level 2	40 500	2768	4	High
2	Helsinki – Stockholm	260	100-500	Level 2	40 000	1462	5	High
3	Copenhagen – Oslo	270	100-500	Level 2	19 000	692	2	Medium
4	Hirtshals – Kristiansand/Larvik	70-90	100-500	Level 2	9 000	775 / 343	3 / 2	High
5	Sandefjord – Strömstad	40	10-50	Level 1	3 700	1648	4	Low
9	Rønne – Ystad	70	50-100	Level 2	600	2105	4	Low
10	Frederikshavn – Gothenburg	50	10-50	Level 1	2 200	1141	2	High
12	Kapellskar – Mariehamn	40	10-50	Level 1	1 200	409	1	Low
15	Vaasa – Umeå	50	10-50	Level 1	3 300	765	1	Low

Groups 1-4

Group 1		
Name		Company
1 Nathaniel	Frithiof	DNV
2 Sofie	Vold	Ministry of Climate and Environment
3 Magnus	Hellström	Åbo Akademi University
4 Heidi	Kilemo	Norwegian Shipowners' Association
5 Dinis	Reis Oliveira	Stena Teknik - Stena Rederi AB
6 Isabella	Forsgren	Port of Umeå/ Infrastructure in Umeå AB
7 Klas	Ljungberg	Flexens
8 Paavo	Kojonen	Arctia Oy

Group 2		
Name		Company
<i>Eirill</i>		
1 Bachmann	Mehammer	DNV
2 Sveinung	Oftedal	Ministry of Climate and Environment
3 Anna	Virolainen-Hynna	Biokierto
4 Kent	Åstrand	Wärtsilä Finland
5 Klas	Blomqvist	PBI Research Institute
6 Riku	Mäkelä	Business Finland
7 Timo	Suistio	Rauma Marine Constructions Oy

Group 3		
Name		Company
1 Ingeranne	Nakstad	DNV
2 Emma	Ravnø	Danish Maritime Authority
3 Kim	Kronlund	Norges Ambassad, Helsingfors
4 Johanna	Luoma	Finnlines
5 Sten	Sundberg	Finnish Transport and Communications Agency
6 Kjell	Stokvik	Center for High North Logistics /Nord Univeristy
7 Mikko	Niini	Navidom Oy
8 Denis John	Cederholm-Larsen	MAN Energy Solutions

Group 4		
Name		Company
1 Dorthe	Slotvik	DNV
2 Mårten	Schei-Nilsson	DNV
3 Carolus	Ramsay	Finnish Shipowners Association
		Government of Finland, Ministry of Transport and Communications
4 Eero	Hokkanen	
5 Harald	Rokke	Nordic Investment Bank
6 Håkan	Jonsson	Flexens Oy Ab
7 Magnus	Gustafsson	PBI Research Institute

Group 5 + 2 digital groups

Group 5		
	Name	Company
1	Frank	Stuer-Lauridsen LITEHAUZ
2	Tua	Takasu Nofi
3	Satu	Kuurma Finnish Transport and Communications Agency Traficom
4	Andreas	Slotte Port of Helsinki
5	Robert	Ericson DNV
6	Peter	Stahlberg Wasaline/NLC Ferry/Kvarken Link
7	Anastasia	Tsvetkova Åbo Akademi University

Digital Group 1		
	Name	Company
1	Erik	Jakobsen Menon Economics
2	Anders	Jungar PBI Research Institute
3	Andrea	Ahlberg Swedish Transport Agency
4	Cecilia	Gabriellii SINTEF Energy Research
5	Ines	Peixoto Aalto University School of Business
6	Jonas	Ericson Transport Agency Sweden
7	Katja	Eriksen Business Finland

Digital Group 2		
	Name	Company
1	Henrik	Foseid Menon Economics
2	Niina	Honkasalo Ministry of Transport and Communications
3	Paal Erik	Vang Pevatech AS
4	Riitta	Bjørkenheim Vasek
5	Sarianna	Lundan University of Bremen, Faculty of Business Studies and Economics
6	Szilvia	Haide Flexens Oy Ab
7	Ulla	Tapaninen Tallinn technical university

Case: ...

Five questions – the barrier wheel	Yes/partly/no – please elaborate	Actions to overcome barriers	Actors involved – describe roles and responsibilities
Is there a (sufficient) demand for green transport?			
Is it technically feasible?			
Is there available supply of fuel?			
Is it economically acceptable, and are financial resources available?			
Are we operationally and organisationally ready?			

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