



Fishing For Litter

Circular Ocean Conference 2018



Erlend Standal

Facts about Salt Lofoten AS (SALT)

- An **independent consultancy company** with knowledge about and for the coast
 - Research
 - Dissemination, public outreach, teaching (from kindergarten to PhD)
 - Advice to government, municipalities and private companies
 - Marine biology, fisheries, aquaculture, coastal culture++
 - Marine litter has become a huge part of our portfolio
- 16 employees
- EU Small Medium Enterprise



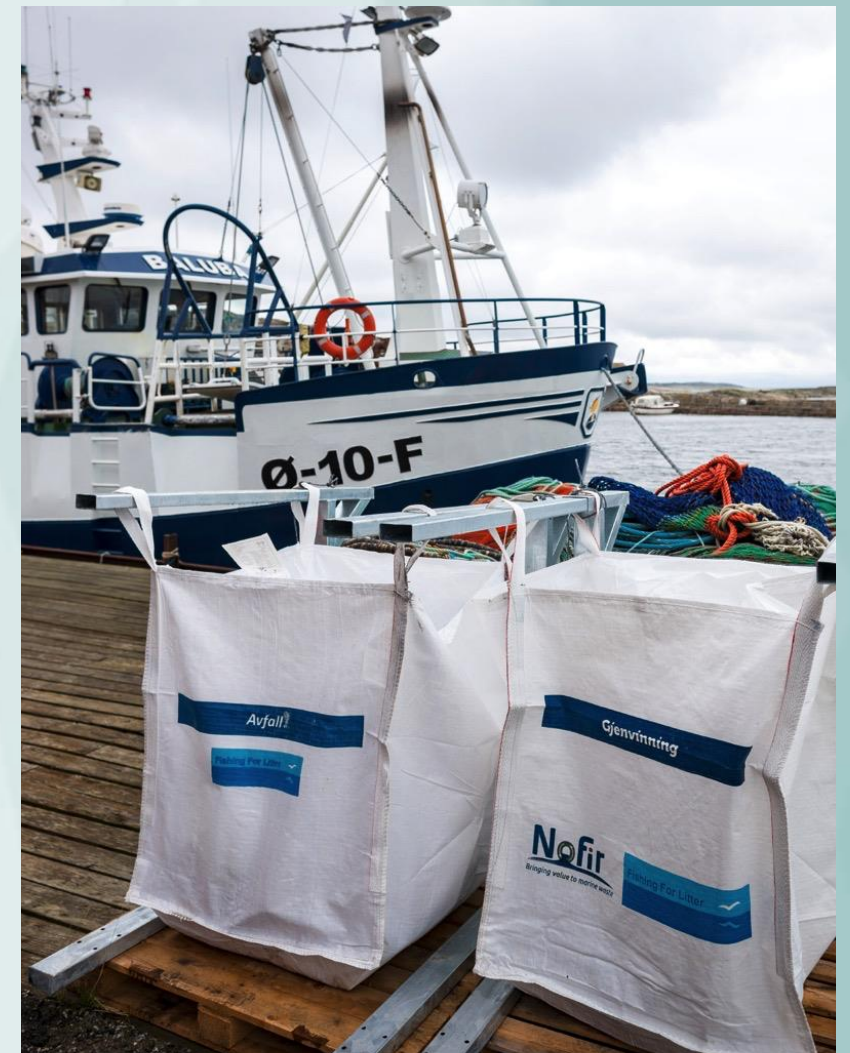


Fishing For Litter

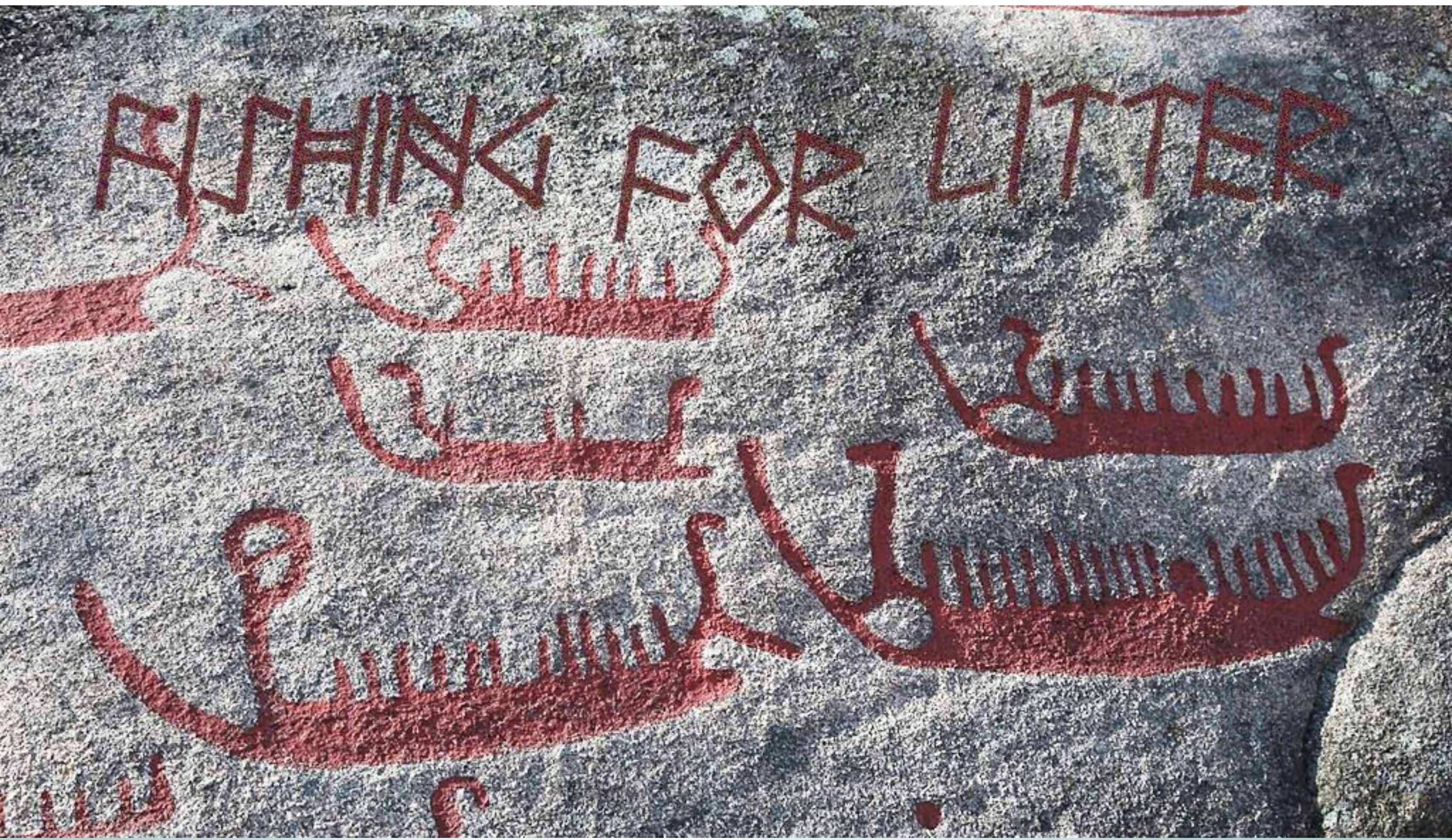


Fishing For Litter

- Involves one of the key stakeholders, **the fishing industry**, in the clean-up of marine waste
- Provide fishing boats with large bags to collect marine litter **during their normal operations** at sea
- Free delivery at port
- **Voluntary effort** from the fishermen – no economic compensation
- Does not cover waste produced on board, only marine litter caught in the gear used for fishing



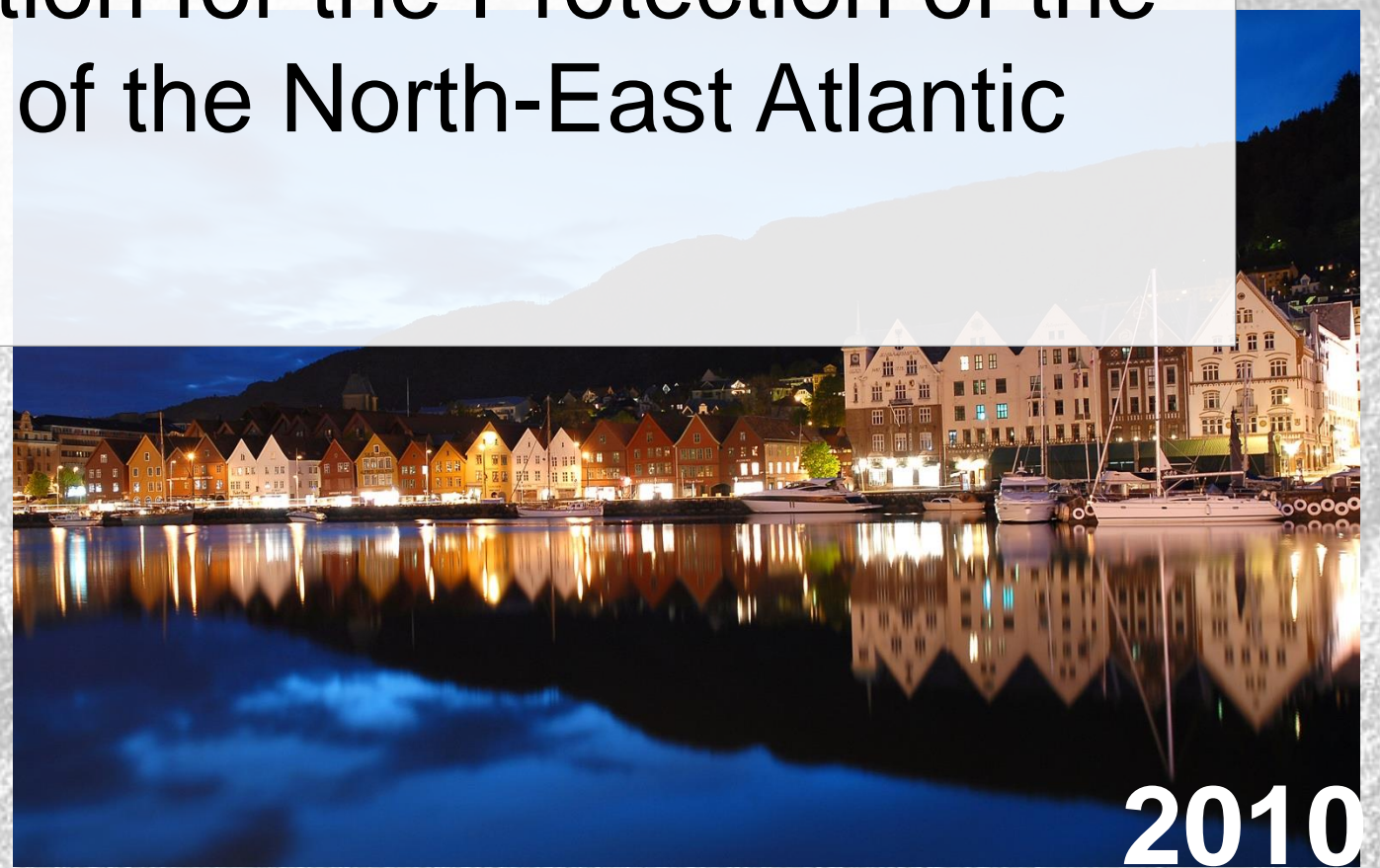
A short **history** lesson



A short **history** lesson



OSlo **PAR**is Convention for the Protection of the Marine Environment of the North-East Atlantic



Fishing For Litter in **Norway**

- Directorate for Nature Management (DN)
 - Started working after the OSPAR Ministerial meeting in 2010
 - DN => Norwegian Environment Agency
 - Set out a tender in 2015, which was won by **SALT**
- Planning and start-up, last part of 2015
- Pilot scheme from Jan 2016 to Dec 2017



From unwanted «by-catch» to recycling

4 main goals:

- **Remove** marine litter from the sea
- Increase fishermen's **awareness** of their own contribution to waste into the environment
- **Monitor** regional trends within marine litter (report to OSPAR)
- Examine the possibilities to **recycle** resources found in the sea



TO SHIP

Big-bags and information material delivered to participating vessels in harbour

INFRASTRUCTURE

Containers for FFL-waste
1. Recyclable fishery waste (Nofir)
2. Other waste

AT SEA

- Ordinary fishing
- By-catch of marine waste
- Sorting in the 2 categories
- Procedures for dangerous waste

AT HARBOUR

- Collection points run by fisheries, local harbour, etc.
- Delivery
- Registration

WASTE MANAGEMENT

1. «Recyclable fishery waste»
=> **Nofir**
2. «Other waste» => **local solid waste companies**

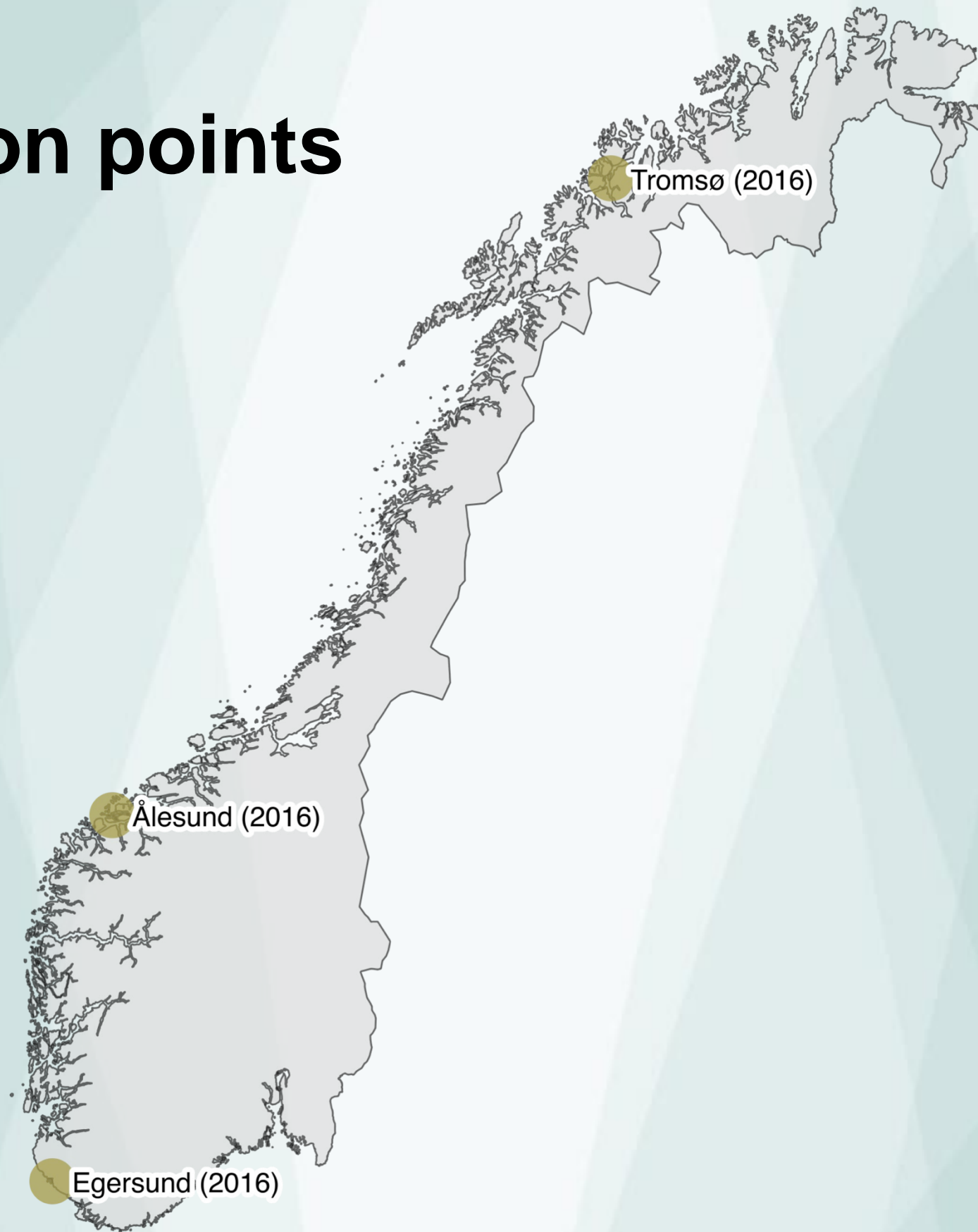
TRANSPORT

Handled by the same companies

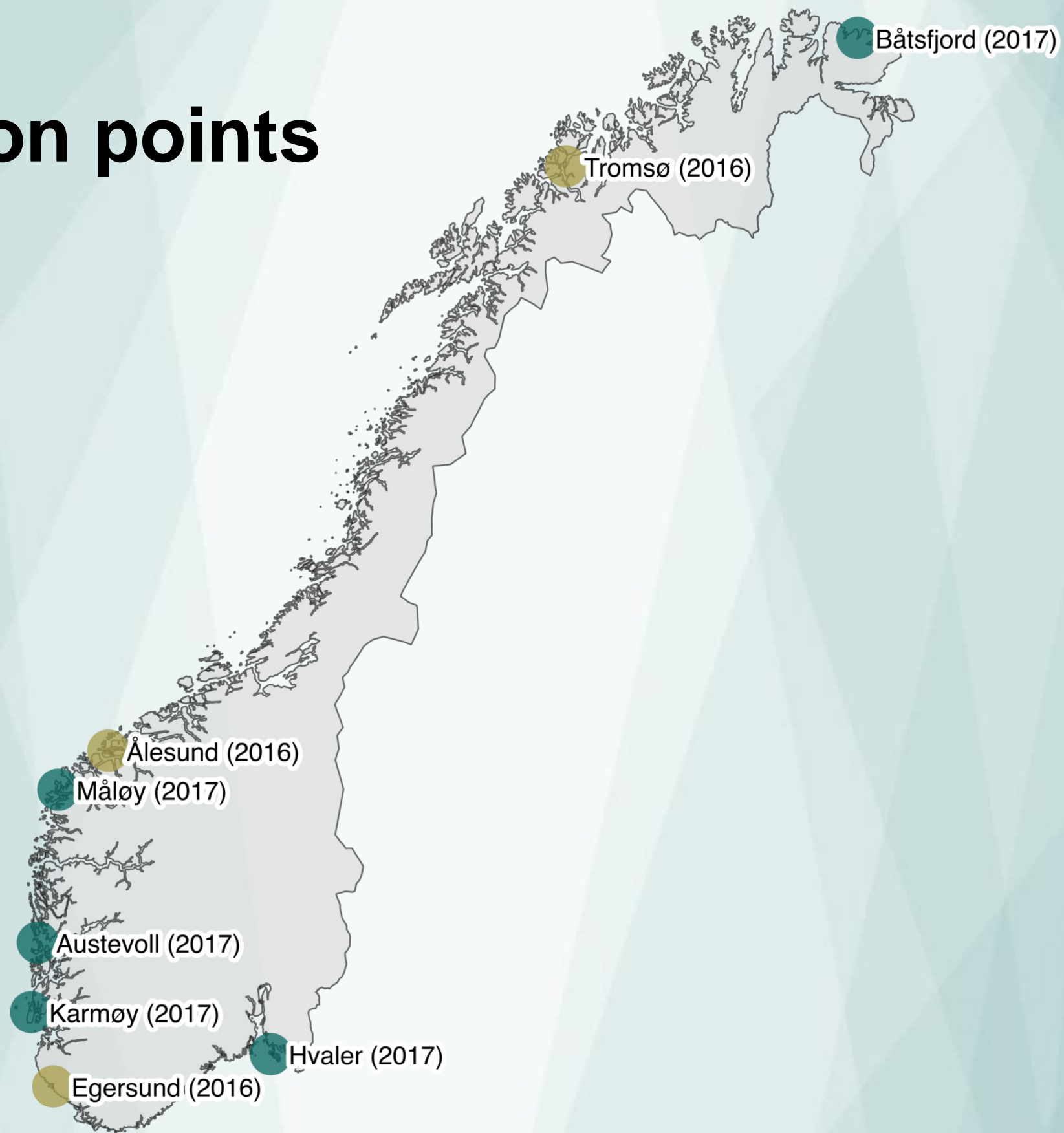
RECYCLING/REGISTRATION

- Nofir Lithuania
- «Dismantling report»
- Vessels: Environmental Diploma

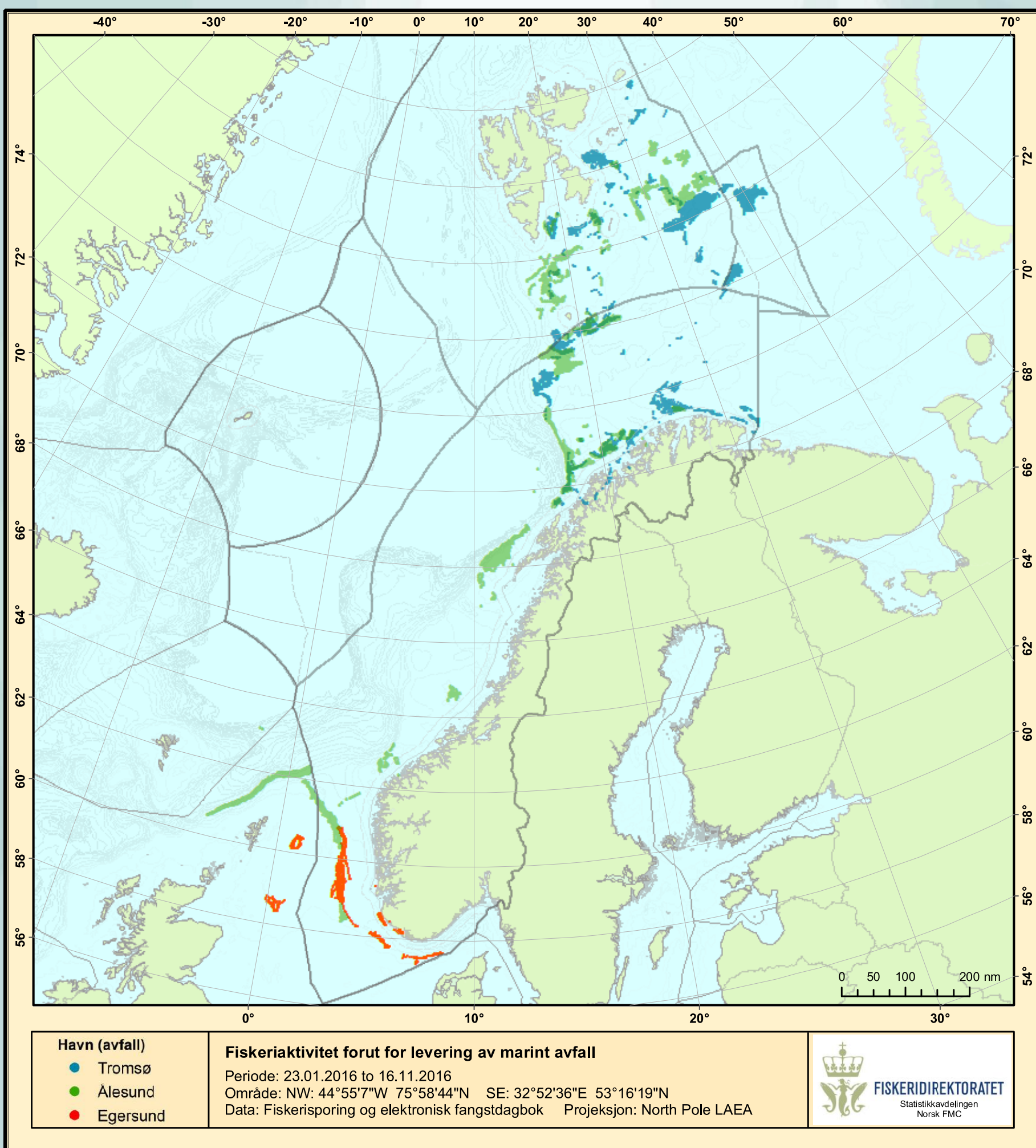
Collection points



Collection points







Marine litter delivered through FFL

?	2016?			
	Fisheries related waste sent to recycling (kg) (% of total)	Other waste * (kg)	Total weight (kg)	No. of vessels
Tromsø?	12,480 (55 %)	10,250	22,730	18
Ålesund?	22,467 (98 %)	500	22,967	21
Egersund?	2,008 (81 %)	478	2,486	5
Karmøy?	-	-	-	-
Hvaler?	-	-	-	-
Måløy?	-	-	-	-
Båtsfjord**?	-	-	-	-
Austevoll**?	-	-	-	-
Total(kg)?	36,955(77%)	11,228	48,183	

* «Other waste» may also contain fisheries related waste, not considered suitable for material recycling.

** Newly added ports, where the waste is not yet delivered to the waste company and hence not registered.

29 of the participating vessels are registered in more than one port. A total of 49 vessels



Marine litter delivered through FFL

	2016				2017			
	Fisheries related waste sent to recycling (kg) (% of total)	Other waste * (kg)	Total weight (kg)	No. of vessels	Fisheries related waste sent to recycling (kg) (% of total)	Other waste * (kg)	Total weight (kg)	No. of vessels
Tromsø	12,480 (55 %)	10,250	22,730	18	20,583 (37 %)	35,297	55,880	25
Ålesund	22,467 (98 %)	500	22,967	21	23,998 (94 %)	1,470	25,468	31
Egersund	2,008 (81 %)	478	2,486	5	200 (100 %)	0	200	5
Karmøy	-	-	-	-	690 (100 %)	0	690	5
Hvaler	-	-	-	-	300 (33 %)	600	900	4
Måløy	-	-	-	-	330 (42 %)	465	795	7
Båtsfjord **	-	-	-	-	-	-	-	14
Austevoll **	-	-	-	-	-	-	-	1
Total (kg)	36,955 (77 %)	11,228	48,183		46,101 (55 %)	37,832	83,933	

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The **future** of Fishing For Litter in **Norway**

- In 2017 The Ministry of Climate and Environment has asked the Environment Agency to prepare a plan for
 - a **permanent** scheme for delivery of marine litter caught in fishing gear, and
 - for expanding the scope to **cover the entire coastline**
- **SALT**, with **Mepex Consulting**, was contracted to deliver a background paper with recommendations, which we did at the end of 2017
- **The Environment Agency** is expected to deliver their plan to the ministry
- Meanwhile, **SALT** will continue to organize FFL in Norway









MIKS
00610924 - 77601900
www.remiks.no



Facts about **Erlend Standal**

- Marine biologist

Work experience:

- Norwegian Directorate of Fisheries 2002-2007
- Norwegian Environment Agency 2007-2016
 - **OSPAR**
 - BDC (Biodiversity Committee)
 - ICG-ML (working group on marine litter)
- **SALT Lofoten AS** 2016-onwards

