

# Marine Litter Workshop (Akureyri, Iceland)



DIRECTORATE OF FISHERIES

Bård Aarbakke, Development Section

5-6.june, 2018



# The Directorate of Fisheries

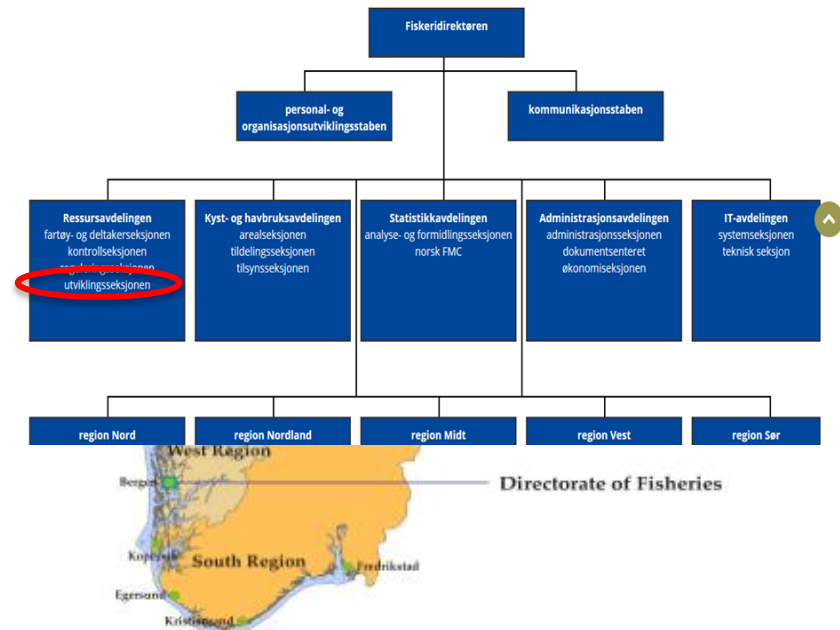


## Bergen, Headquarters



## Resource and aquaculture management

The Directorate of Fisheries regional and lokal offices



# Old days - Biodegradable fishing gears



DIRECTORATE OF FISHERIES

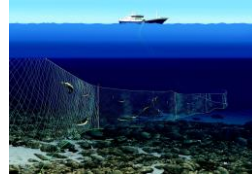




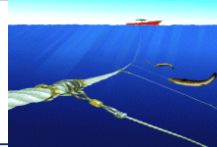
# To days fishing gear – new «long live» materials

Gillnets

Dangeros  
Ghost fishing



Hooks/ longlines



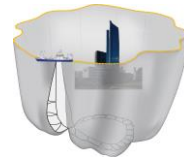
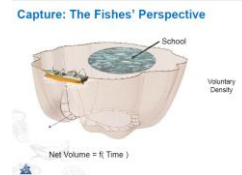
Trawls



Danish seine

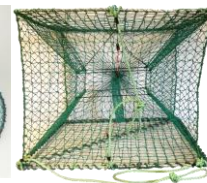


Purse seine



Pots

Dangeros  
Ghost fishing





Clean Nordic Oceans

CNO is a Nordic initiatives for all the Nordic countries

From Norway

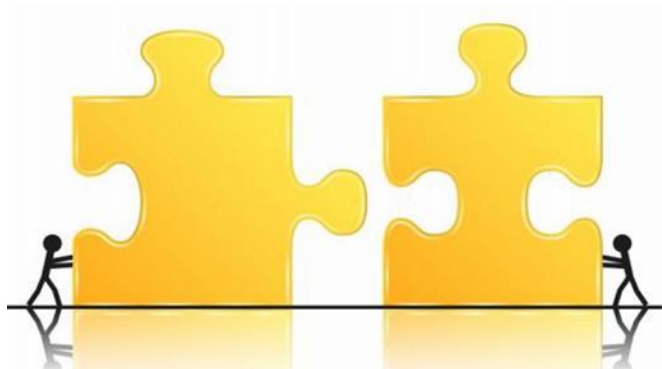
Through Nordic Council of Ministers



 Nordic  
Co-operation

- Founded for the period 2017 – 2019
- Lead by Norway (The Directorate of Fisheries), and with Denmark and Sweeden in executive team

# Why Norway?



- Due to our work on the topic:
  - Reporting of lost gear
  - Biodegradable gillnet
  - Retrieval sensor on gear
  - Biodegradable thread in pots
  - Annual retrieval survey from 1983



- Almost 21.000 (570 km) gillnets removed from the seabed since 1983

- This is equal to a distance from Norway to The Faroe Islands







## What is CNO?

A Nordic network to exchange knowledge and experience about methods and measures to reduce the effects of ghost fishing, littering of the oceans and to increase recycling from commercial and recreational fishing.

### Marine Litter

Marine litter is a high priority, both nationally and internationally for the Nordic countries. One of many different sources of marine litter is the loss of fishing gear and components from lost gear. All the Nordic countries have varying amounts of commercial and recreational fisheries and the CNO project is focusing on lost fishing gear.



### Ghost Fishing

Fishing activities anywhere in the world leads to the loss of fishing gear with the subsequent danger of ghost fishing. The effects of ghost fishing varies with the type of fishing gear. Ghost fishing is a hidden exploitation of marine resources that leads to unwanted mortality of marine life. Fishing gear is often made of plastic with long durability and some gear may keep on fishing for decades.



### Recycling

Recycling is a process to convert waste materials into new materials and is a key component of modern waste reduction. Recycling can prevent the waste of potentially useful materials and reduce consumption of fresh raw materials. Currently, methods for handling and recycling fishing gear are being developed.



## The basic idea



Clean Nordic Oceans

«.....exchange knowledge and experience.....»

- **To make better solutions, faster and with lower costs**

We will work for CNO to fill the gap, be a platform, the base and the meeting point.

We all need the round wheel!



# CNO Executive Team



Norways network leader  
Bård Aarbakke, The Directorate of Fisheries



Project Manager  
Gjermund Langedal



Swedens network leader  
Charlotta Stadig, Swedish Agency for Marine  
and Water Management



Denmarks network leader  
Rikke Frandsen, DTU Aqua

# Kick off 2017



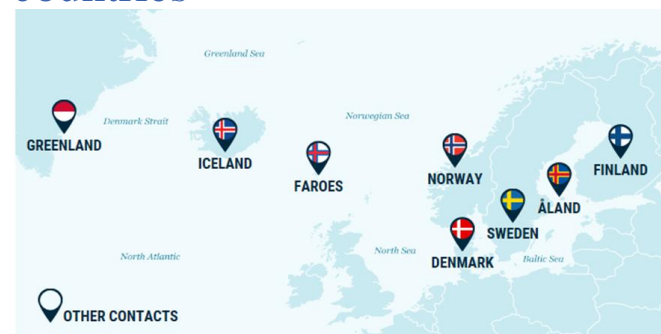
DIRECTORATE OF FISHERIES



## Successful workshop for CNO

With almost 50 participants and presentations from all across the Nordic countries, the workshop showed that the theme "lost fishing gear" is important and very relevant. Clean Nordic Oceans (CNO) is a Nordic network with the main objective to build a platform to exchange relevant information. The way forward is to preserve the good start of developing CNO as an important knowledge- and communication network.

- Big differences between Nordic countries



- Contribute to fill the gap

CNO fills the knowledge gap

Based on feedback after the workshop, both the timing of the event, relevant topics and content was perfect. Participants agreed that CNO fills a Nordic gap and has a unique opportunity to build a Nordic knowledge- and communication network to reduce the risk of ghost fishing, littering of the oceans and increased recycling from both commercial and recreational fishing.



DIRECTORATE OF FISHERIES

# The network

Norges fiskarlag   Norges Kystfiskarlag   Miljødirektoratet   Clean Up Lofoten /Lofoten Avfallsselskap IKS  
 Nofir AS   Innovasjon Norge   SINTEF   Hold Norge Rent   OK Marine   Norges Fritids og Småfiskerforbund  
 Mustad Autoline AS   Runde Miljøsentor   Frøystad AS   Circular Ocean   eSEA Marine AS  
 Plastix A/S   Baltic Sea Advisory Council   PlanMiljø   KIMO Denmark   The Velux Foundations

Greenland Institute  
 of  
 Natural Resources  
  
 Departementet for  
 Fiskeri og Fangst  
  
 Greenlandic Fishing  
 License Control



Åbolands Fiskarförbund  
  
 KIMO International  
  
 WWF Germany  
  
 Oceana  
  
 8-fjordar

HM 635 Karbak   Havs- och vattenmyndigheten   MARELITT Baltic   Keep Sweden Tidy   Malmö Stad   Laxkonsult  
 Municipality of Simrishamn   Sotenäs kommun   Finnish Environment Institute, SYKE   Transportstyrelsen  
 VÖRN (Faroe Islands Fisheries Inspection)   Marine and Freshwater Research Institut (MFRI)

# News

News



English  
English versions of the articles



Nordiske språk  
Artikler på Nordiske språk



DIRECTORATE OF FISHERIES



## Successful retrieval survey along the coast of Norway



## CNO well underway to build a Network



## A new Arctic project against marine plastic pollution



## Conference in Kolobrzeg with ghost fishing on topic



## Norwegian authorities take measures to avoid ghost fishing in the lobster fishery (updated version)

As of 2018, Norwegian authorities had decided to demand a specific escape vent in the pot fisheries towards lobster. The solution will ensure that lost pots on the seabed do not become eternal traps for shellfish and fish. Requirements on the new solution is the use of cotton wire with short breakdown time in parts of the pot. This will ensure an escape possibility for the caught fish and shellfish.



## First step towards mapping ghost nets in Danish waters

New report presents the first collection of knowledge about



## Sotenäs municipality against ghost fishing



## Plastix on recycling, "plastic pollution" and the way forward

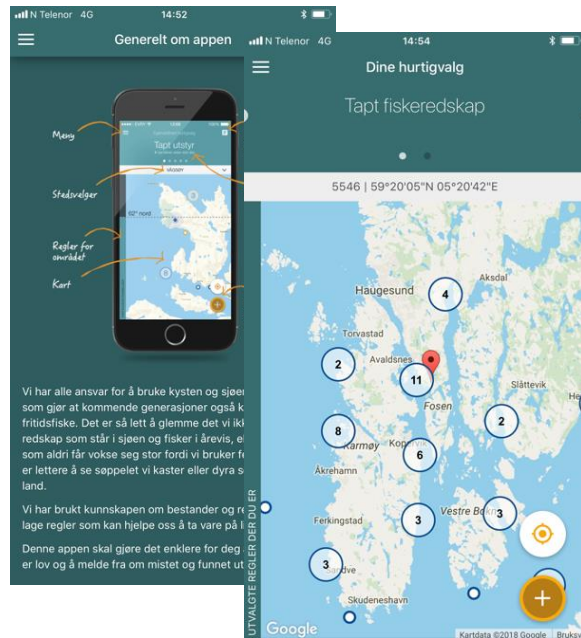


## The EU Commission with a new and ambitious strategy on plastics

The EU Commission adopts a strategy on plastics, which will protect the environment from plastic pollution whilst fostering growth and innovation. The strategy is design to address the challenges posed by plastics throughout the value chain, taking into account the entire life cycle, and aims to contribute to a new plastics economy.

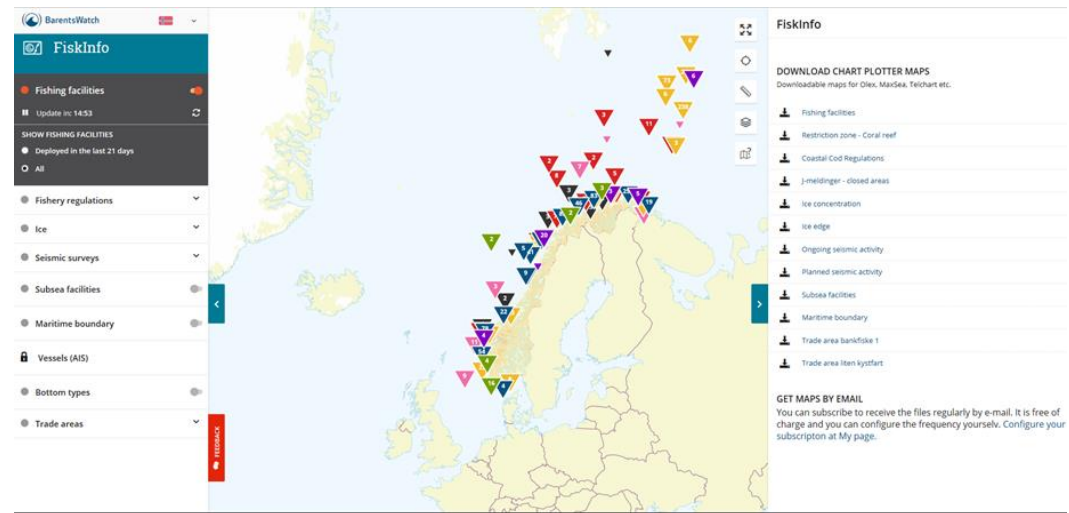
# Knowledge transfer

## App – «reporting of lost and found gear»



## App store/ Google play «Fritidsfiske»

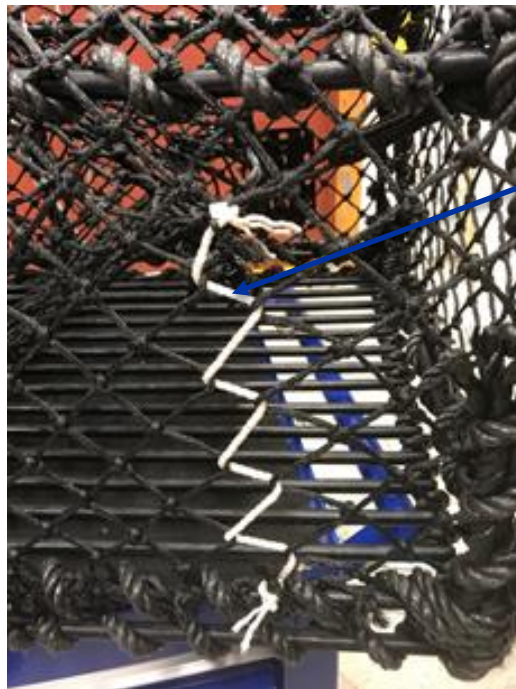
## System for tracking commercial fishing gear and lost fishing gear



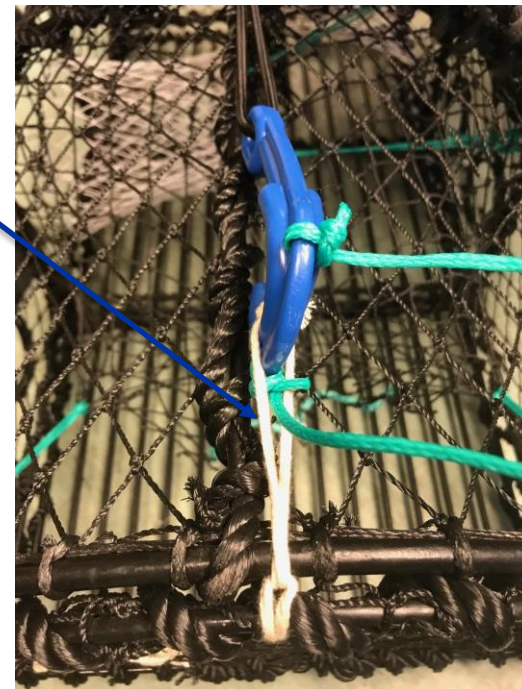


# Knowledge transfer

## Escape solution from lost lobster pots



Biodegradable  
thread





# Planned activities for 2018



DIRECTORATE OF FISHERIES

- Communicate news and knowledge
- Further develop the network
- Article series (web) - status of the Nordic countries
- Workshop (23-25.10.18)
- Movies



# Join the CNO



DIRECTORATE OF FISHERIES

 Clean Nordic Oceans

[HOME](#) [NEWS](#) [THE NETWORK](#) [THE CHALLENGE](#) [MEASURES](#) [CALENDAR](#) [JOIN US](#) [CONTACT](#)

A Nordic network to exchange knowledge and experience about methods and measures to reduce the effects of ghost fishing, littering of the oceans and to increase recycling from commercial and recreational fishing.

### Marine Litter

Marine litter is a high priority, both nationally and internationally for the Nordic countries. One of many different sources of marine litter is the loss of fishing gear and components from lost gear. All the Nordic countries have varying amounts of commercial and recreational fisheries and the CNO project is focusing on lost fishing gear.



### Ghost Fishing

Fishing activities anywhere in the world leads to the loss of fishing gear with the subsequent danger of ghost fishing. The effects of ghost fishing varies with the type of fishing gear. Ghost fishing is a hidden exploitation of marine resources that leads to unwanted mortality of marine life. Fishing gear is often made of plastic with long durability and some gear may keep on fishing for decades.



### Recycling

Recycling is a process to convert waste materials into new materials and is a key component of modern waste reduction. Recycling can prevent the waste of potentially useful materials and reduce consumption of fresh raw materials. Currently, methods for handling and recycling fishing gear are being developed.



# www.cnogear.org



Clean Nordic Oceans

## **Sociale media**

- **Website:** <http://www.cnogear.org>
- **Instagram:** <https://www.instagram.com/cleannordicoceans/>
- **Twitter:** <https://twitter.com/cnogear>



Clean Nordic Oceans



DIRECTORATE OF FISHERIES

# Clean ocean – clean future

Thank you for your attention

[Bard.Aarbakke@fiskeridir.no](mailto:Bard.Aarbakke@fiskeridir.no)