



RECYCLING DISCARDED
EQUIPMENT FROM
FISHING AND FISH FARMING

Øistein Aleksandersen
Circular Ocean
1. September 2016



www.nofir.no

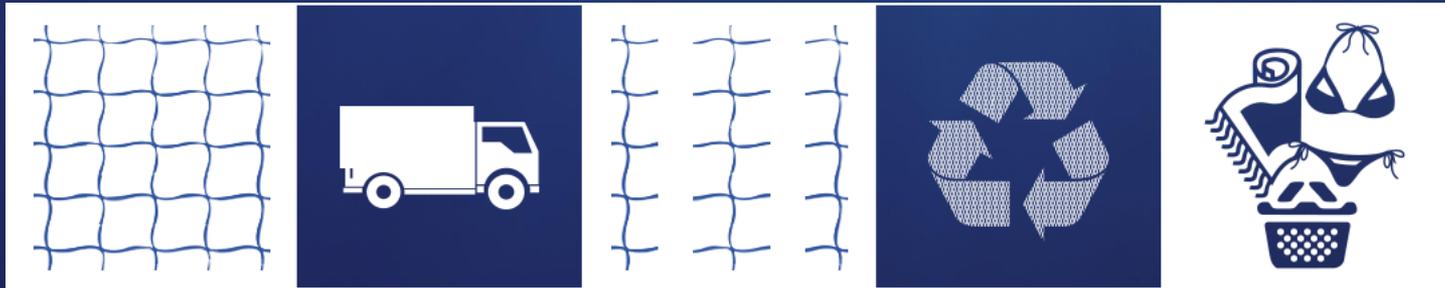
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What is our concept?

- Nofir is a Norwegian company with subsidiaries in Lithuania and Turkey
- We collect fishing and fish farming equipment from different countries, mostly Norway.
- The material is sent to Lithuania or Turkey for dismantling
- Our end product is raw material for the recycling industry



How do we work



BRINGING VALUE TO MARINE WASTE

Lithuania

Material is sent to UAB NOFIR

Dismantling equipment

Producing raw material for recycling industry



Lina Petraitiene

Manager
Lithuania



Ligita Bielskiene

Production
Manager



Rima Samoškienė

Project Manager
Europe

Turkey

**New office
in Turkey
in 2015**

Cooperation with EMEL BALIK AS:
Emel Balik has been delivering
net cages and **service** to fish farms
in **Turkey** in last **18 years**

**New company
in Turkey in 2016**



Turgay Gundemir
General Manager
Turkey

Nofir has a permanent presence in Turkey since **April 2016**.
The manager in Turkey is **Turgay Gundemir** and the name
of the company is **Nofir Geridönüşüm San.Tic.Ltd.Şti.**

Our customer
Aquafil

50% CO₂ eq. emissions of **ECONYL®YARN**
compared to **VIRGIN** material

Our biggest
customer

Carpets
and textiles



=



1ton of
recycled nets

over 1000m²
of carpet

Nofir collects from
4 continents



Where do we collect



2011 **2631** TONS OF MATERIAL

CO₂

DECREASE IN CARBON FOOTPRINT IS ABOUT 9 500 T CO₂ EQ.

DECREASE IN NON-RENEWABLE RESOURCES IS ABOUT 4 500 T OIL EQ.

2012 **2736** TONS OF MATERIAL

CO₂

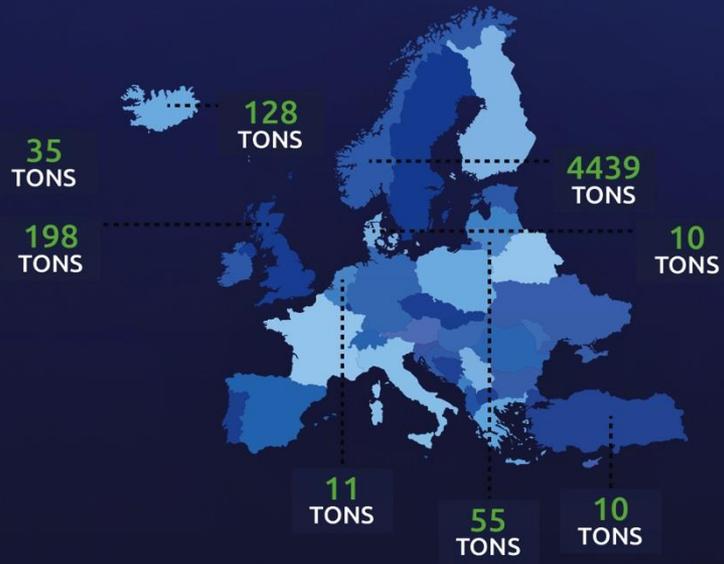
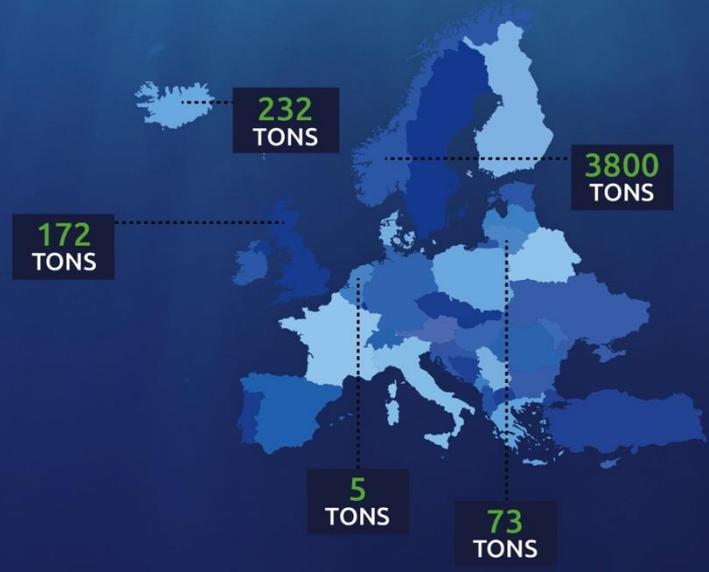
DECREASE IN CARBON FOOTPRINT IS ABOUT 10 000 T CO₂ EQ.

DECREASE IN NON-RENEWABLE RESOURCES IS ABOUT 5000 T OIL EQ.



36
TONS

2013 **4282** TONS OF MATERIAL



2014 **4886** TONS OF MATERIAL



2015

5699 TONS OF MATERIAL



CO₂

EQUIVALENT
TO **20 500 TONS**
OF REDUCED
CARBON
FOOTPRINT
COMPARED
TO NEW
PRODUCTION

EQUIVALENT
TO **8 500 TONS**
OF REDUCED
NON RENEWABLE
RESOURCES
COMPARED
TO NEW
PRODUCTION

Amounts we collected
≈ 20 200 t (2011-2015)

*Decrease in non
renewable resources:*
30 400 t

Decrease in Carbon Footprint:
≈ 72 900 t

*Decrease in waste equipment
ending up at **sea**, **landfill** or **incineration***
≈ 14 000 t

Estimated Yearly amounts in Norway

7000
(ton)

Cages

4000

Ropes

3500

Fish
farming
nets

2000

Fishing
equipment



In **one net**
there is



1000
tons of
salmon

It is
equivalent to



20000
lambs

or



2000
cows

the future of
food production
is in the sea

The average
amount of
cows per
cow farm
in Norway is

fish
farming nets
in Norway



4000

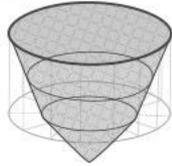
There
are
around



37 million
meals
each day

In 2014
Norwegian
fisheries and
fish farming
exported

Equipment we collect



**Fish farming nets
and cages**



Trawls



Ropes



Gill nets



**Purse seine
nets**

Fish farming nets



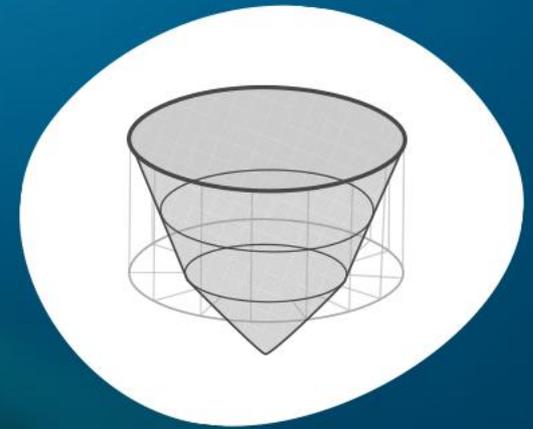
up to 200m round



50 meter deep



hazardouse waste



1000 tons of
fish in one net



Export value
on salmon
50million NOK

Trawls

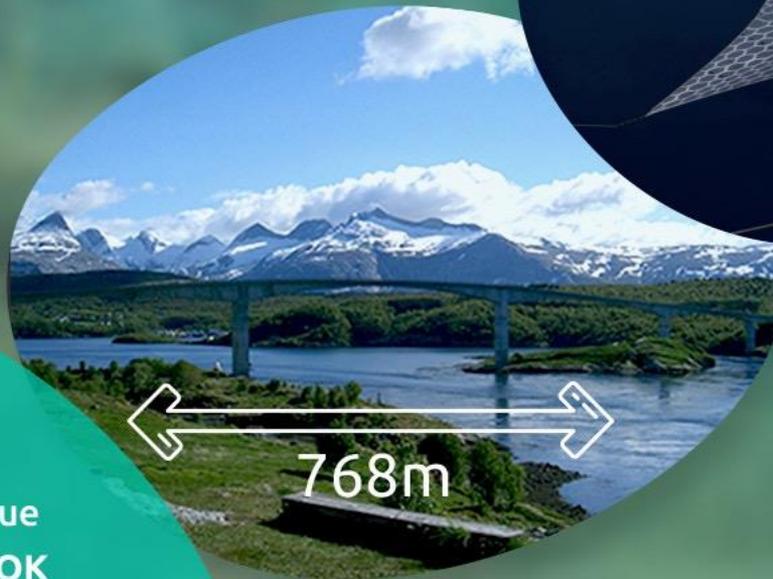
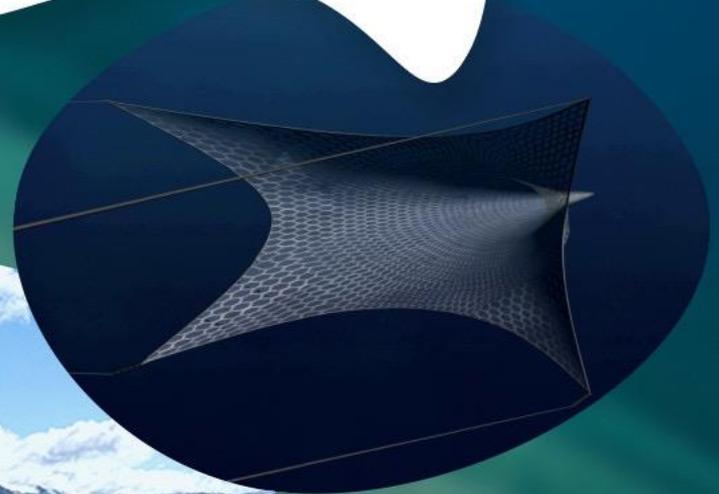
Biggest trawl made by Egersund Trawl



had an opening of 2500m



was 250 meters long



800 ton of fish
in 15 minutes



Value
2million NOK

Purse seine nets



1000 meters long

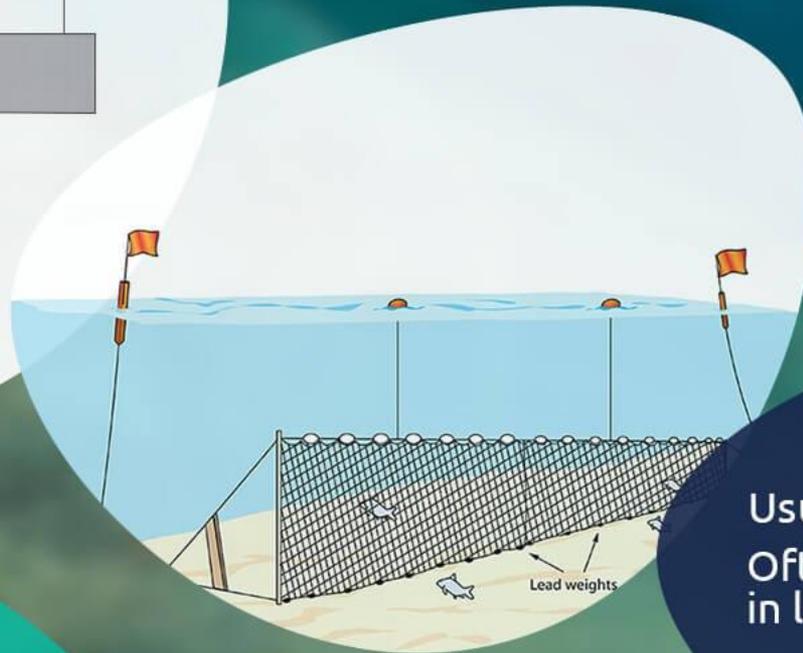
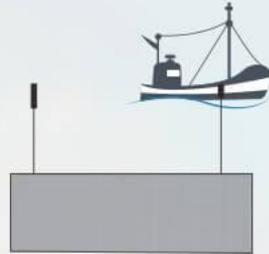


250 meters deep



record is **2471t** in
one haul

Gill nets

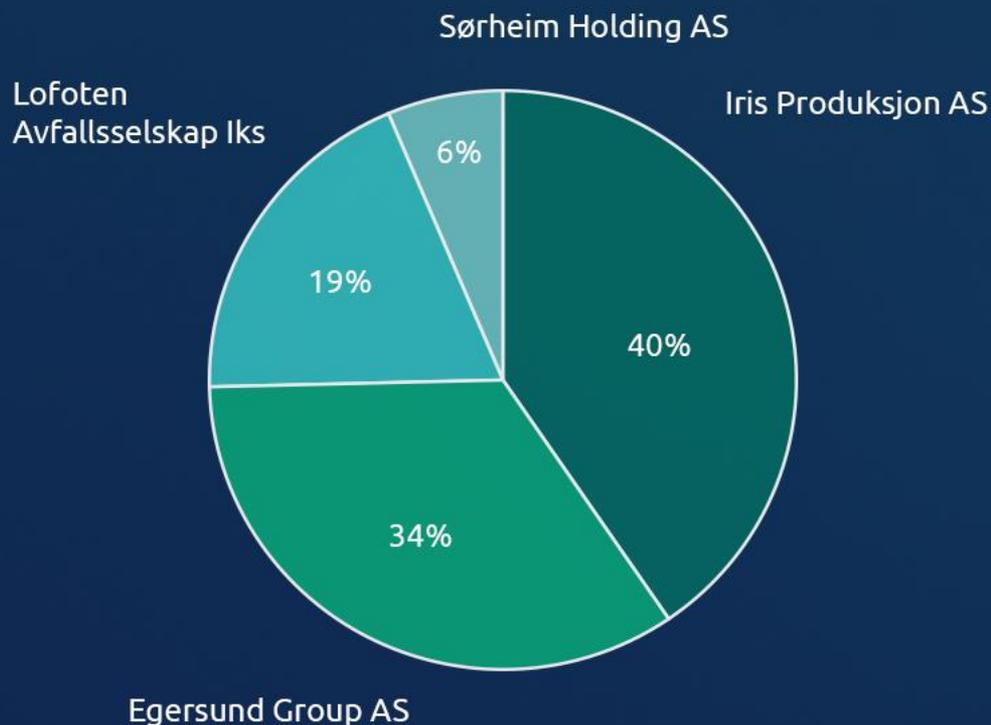


Usually small nets
Often together
in long chains



Every **year**
over **100,000** animals **die** from
the harmful effects of **plastic**,
ghost nets, and **litter** in our oceans

Owners of Nofir



Iris Produksjon is a waste company for several municipalities in the Salten region in the north of Norway



Egersund Group is a supplier of equipment to the fishing fleet and fish farming industry world wide



Lofoten Avfallsselskap is a waste company for several municipalities in the Lofoten region in the north of Norway



Sørheim Holding is a fishing vessel owner located in the north of Norway



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