

European Fisheries Technology Platform

**EFTP**



**Kick-off meeting**  
**Session 2: EFTP working groups in detail**

NAVALIA, Vigo 18th May 2010

Dr. Vegar Johansen  
Research Director  
SINTEF Fisheries and Aquaculture

## Working groups, main tasks

- Contribute in developing the Vision document
- Contribute in developing Strategic Research Agenda (SRA)
- Formulate a commonly agreed roadmap for action



## Working groups suggested

Sustainability  
and  
management

Energy  
efficiency

Fishing vessel  
technology

Fish and  
seafood  
technology

Fishing gears

Building trust  
from catch to  
consumer

## WG 1: Sustainability and management

Coordinator:

Javier Garat (Europêche, Cepesca)

Facilitator:

Álvaro Fernández (IEO)

Technical secretariat:

Rosa Fernandez (CETMAR)

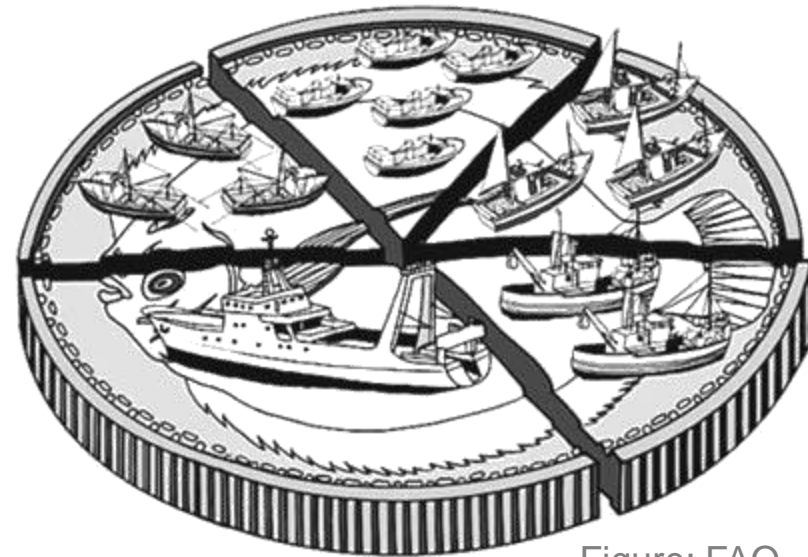


Figure: FAO.

### Main focus areas:

- Placing the exploited stocks on maximum sustainable yield (MSY)
- Industrial management of fleet structure

## WG 1: Some topics that may be addressed

- Improve the robustness and minimize the uncertainty in the scientific assessment on stocks
- Improve the exploitation pattern of fisheries
- Make fishing more profitable and ecology friendly
- Contribute to application of the ecosystem approach to fisheries management
- Create a collaborative link between the European fishing industry and society and project a positive image of the sector.



Figure: Some ICES areas.  
for stock management

## WG 2: Energy efficiency

Coordinator:

Rafael Lucue (ARIEMA)

Facilitator:

Vegar Johansen (SINTEF)

Technical secretariat:

Maribel Rodriguez (ARIEMA)

**Main focus areas:**

- Reduce energy consumption
- Investigate alternatives in technology and operation

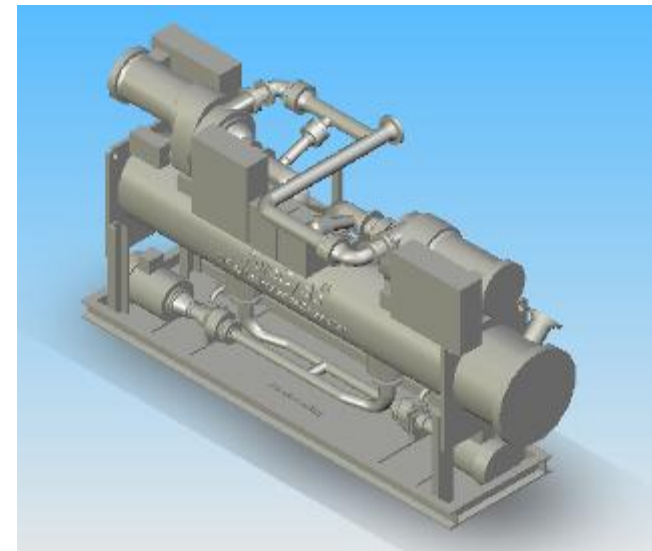
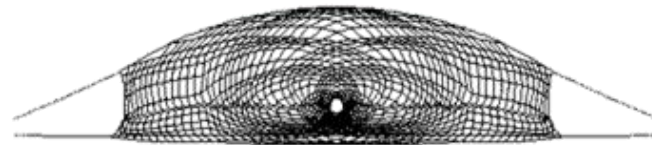
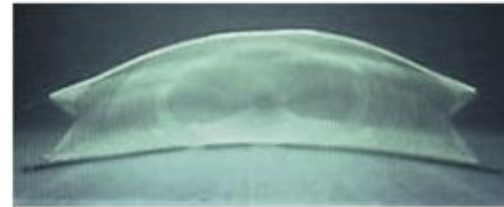


Photo: Organic rankine cycle for utilization of heat in exhaust gas

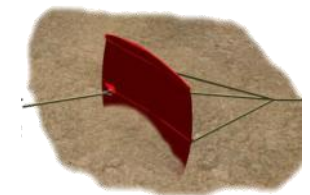


## WG 2: Some topics that may be addressed

- Data acquisition and monitoring of energy consumption
- Alternative energy sources and machinery configurations
- Optimization of gear performance
- Optimization of onboard fuel energy use
- Operational profiles and alternative harvesting strategies



Figures: Optimization of gear performance (SINTEF)



## WG 3: Fishing vessel technology

Coordinator:

Roar Pedersen (SINTEF)

Facilitator:

Adolfo Uriarte (AZTI-TECNALIA)

Technical secretariat:

Dag Standal (SINTEF)

**Main focus areas:**

- Development of vessel technologies
- Adaptations to optimal operation

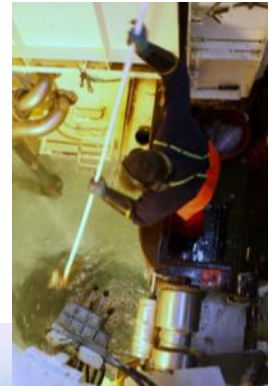


Figure: A longliner concept with moonpool (SINTEF /Fiskarstrand verft)



## WG 3: Some topics that may be addressed

- Deck arrangement and gear handling. Safe operation for fishermen.
- Machinery concepts
- Stability on fishing vessels, coastal fleet in particular
- HSE for fishermen
- Navigation and communication equipment



Figure: New concepts for deck arrangements for future trawler concept (SINTEF).

## WG 4: Fish and seafood technology

Coordinator:

Michael Gallagher (BIM)

Facilitator:

Hanne Digre (SINTEF)

Technical secretariat:

Dag Standal (SINTEF)

### Main focus areas:

- Catch handling systems / automation
- Measures for value adding in seafood products



Figure: manual catch handling (left) and automated fish handling (right) (SINTEF).

## WG 4: Some topics that may be addressed

- Catch handling systems – automation
- Adding value by onboard measures
- By-product utilization
- Quality and environmental electronic systems onboard



Figure: Handling of fish and gillnet gear (SINTEF).

## WG 5: Fishing gears for more sustainable fisheries

Coordinator:

José Ramón Fuertes (ARVI)

Facilitator:

Christian Hedløv Engh (Mustad)

Technical secretariat:

Rosa Fernandez (CETMAR)

**Main focus areas:**

- Selectivity and efficiency in fishing gear
- Reduction of environmental impact from fishing gear

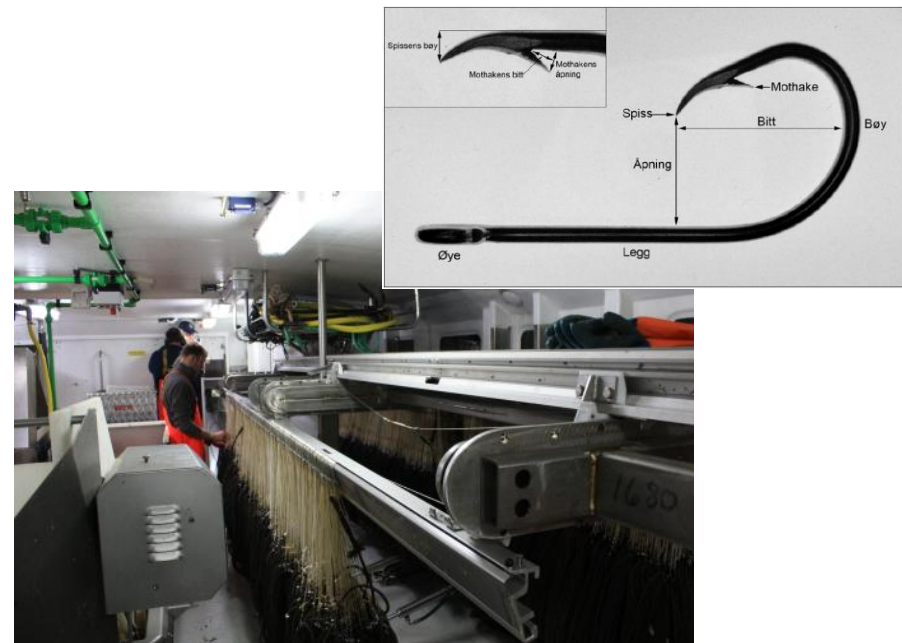


Figure: Automated longlining concepts.

## WG 5: Some topics that may be addressed

- Selectivity in fishing gear (specie / size)
- Reduce impact on environment (e.g. seabed impact)
- Fishing gear design and development
- Fishing gears in vessel maneuvers
- Gear and catch monitoring systems

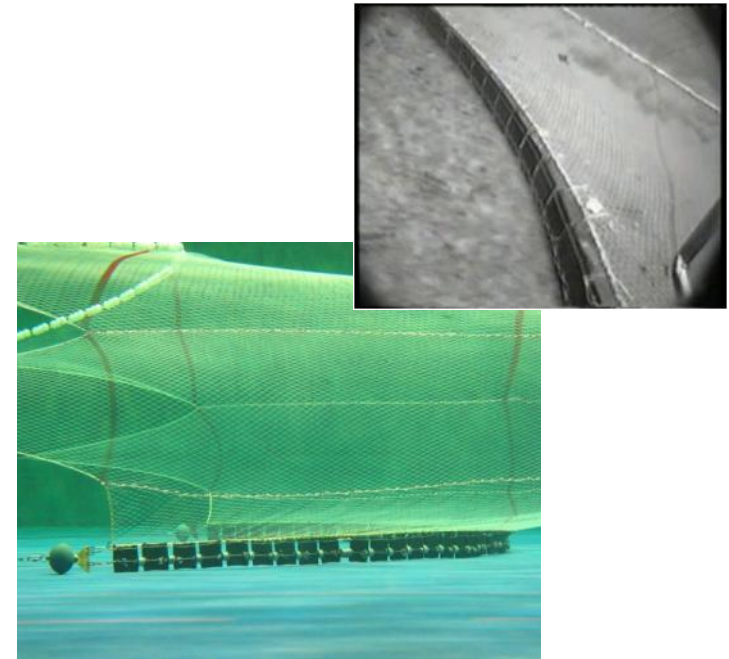


Figure: A trawl ground gir with minimal sea bed impact (IMR/SINTEF).



## WG 6: Building trust from catch to consumer

Coordinator:

Luisa Álvarez (FEDEPESCA)

Facilitator:

Begoña Perez (AZTI-TECNALIA)

Technical secretariat:

Maribel Rodriguez (ARIEMA)

**Main focus areas:**

- Food safety and quality
- Tracing seafood products and provide applicable information



Figure: Mackerel in a catch processing system.



## WG 6: Some topics that may be addressed

- Food safety and quality challenges
- Supply chain management, supported by new information systems
- Building on transferable information from catch to customer
- Utilization of environmental labels in seafood products marketing



Figure: Seafood product with MSC label

## Working groups - summary

- Addressing the scientific challenges in the industry
- Major impact on SRA
- Establishing networks and joining forces with other partners in the European industry
  
- Thank you for the attention!

