



# **Future Fishing Vessel Technologies: Challenges for a Sustainable European Fishing Fleet**

EFTP Workshop, Capo Granitola, Sicilia, June 6-7, 2012

Torgeir Edvardsen  
SINTEF Fisheries and Aquaculture, Norway

# Workshop on Future Fishing Vessel Technologies

---

## *Ambition*

Identify the key challenges and RDI needs  
for the Fishing Vessels of the Future

# Outline

---

## □ Welcome session

- Javier Garat, EFTP chairman; Confederación Española de Pesca
- Salvo Mazzola, host; Director, Institute for Coastal Marine Environment

## □ Research and Innovation Funding

- On Fisheries Research Funding, Kathrine Angell-Hansen, JPI Oceans
- On EMMF and the Atlantic Strategy (tbc)
- CFP: state of the play of its reform Mogens Schou, Danish Ministry of Fishing

## □ Future Fishing Vessel Technologies

Future Fishing Vessel Technologies

# **FUTURE FISHING VESSEL TECHNOLOGIES**

# Future Fishing Vessel Technologies

## □ Setting the Stage

- EFTP background – Introduction to the newly formed ETP
- Goals and structure
- Current situation
  - Strategic Networks
  - Policy Drivers – Impact

EFTP

# Future Fishing Vessel Technologies

---

- ❑ Session 1: Multipurpose fishing vessels
- ❑ Session 2: Vessel security technology and ergonomic work stations onboard
- ❑ Session 3: Effective fish handling systems
- ❑ Session 4: Fuel efficiency; footprint

# Methodology

- Keynote speakers
- First discussion round – Roundtable
  - Formalized discussion (focusing aid)
  - Appoint Rapporteur
  - Seating
- Second discussion round – Plenary
  - Introductions from each Roundtable
- Setting priorities
- Reporting
  
- Tools

# Formalized discussion (focusing aid)

---

## *For each topic:*

- Identify Challenges; what are they?
- Identify Core technologies, required
- .....





# Broadly defined topic

- ❑ Challenges; what are they?
- ❑ Core technologies, required
- ❑ Background(what has already been done)
- ❑ Necessary activities: type of activities, expressed in %
- ❑ Scope: the most suitable
- ❑ Key drivers: aspects influ
- ❑ Priorities
- ❑ Horizon: expectancy for

Topics eg:  
 Multipurpose fishing vessels.  
 Subtopic: Combining different types of fishing gears

- Available knowledge
- Research
  - Are there available technologies that would help to solve the problem, not, what is the reason why those technologies have not entered the market yet.
  - Inn ➤ National
  - Pol ➤ Regional
  - Tec ➤ International
  - .....
  - Refs. Of recently finished (in the last 3-5 years) or in progress projects tackling the identified challenge a

# Session 1:

## Multipurpose fishing vessels

### □ Introductory Speakers:

- Vegar Johansen (SINTEF) and
- Emilio Campana (INSEAN-CNR)
- Bernardo Patti (IAMC-CNR) and

### □ Suggested Topics to be debated in this session:

- i) Combining different types of fishing gear
- ii) Vessels constructed for fishing and other non-fishing activities as tourism, wind mill service, cleaning purposes (oil spill, plastic waste collection etc.)
- iii) Surveillance: towards ecosystem approach

### □ Identify and debate using the Form

### □ Report to plenary (3 minutes)

# Plenary discussion

## *Session 1: Multipurpose fishing vessels*

---

- Report from the Groups
  - Challenges and RTDI needs
  - Expected results / outputs / impact
  - Timeframe
  - Cost estimate
- General debate

# Session 2: Vessel security technology and ergonomic work stations on-board

- Introductory Speakers:
  - Xabier Aboitiz (AZTI)
- Suggested Topics to be debated in this session:
  - Stability calculator/indicator (artisanal and high sea),
  - work procedures, safety management systems, training of fishermen, leadership.
- Identify and debate using the Form
- Report to plenary (3 minutes)

# Plenary discussion

## *Session 2: Vessel security technology and ergonomic work stations on-board*

- Report from the Groups
  - Challenges and RTDI needs
  - Expected results / outputs / impact
  - Timeframe
  - Cost estimate
- General debate

# Session 3:

## Effective fish handling systems

---

- ❑ Introductory Speakers: Hanne Digre (SINTEF) and Fabio Fiorentino (IAMC-CNR)
- ❑ Suggested Topics to be debated in this session:
  - i) Fish slaughtering systems (stunning, bleeding)
  - ii) Cooling-/sorting-/internal transport- and storing systems iii) handling and adding value to of rest raw materials
- ❑ Identify and debate using the Form
- ❑ Report to plenary (3 minutes)

# Session 4:

## Fuel efficiency; footprint

- Introductory Speakers: Zigor Uriondo (AZTI), Karl-Johan Reite (SINTEF) and Dr. Antonello Sala (ISMAR-CNR).
- Suggested Topics to be debated in this session:
  - i) making fisheries profitable and reducing the CO2 Footprint both in artisanal and high sea fisheries
  - ii) energy efficient ship designs
  - iii) effective decision support systems for fishing operations
  - iv) decision support systems for fleet management
- Identify and debate using the Form
- Report to plenary (3 minutes)



# **SETTING PRIORITIES**

# Voting

□ 30 Votes

- each sticker = 5 votes (total 15 votes)
- each sticker = 3 votes (total 9 votes)
- each sticker = 2 votes (total 6 votes)