

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

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

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Workshop on Future Fishing Vessel Technologies

# **Ambition**

### Identifyifyheelyeyhchledhegregesnach & TRJIDnereelesds 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



# 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





# Formalized discussion (focusing aid)

### For each topic:

Identify Challenges; what are they?

Identify Core technologies, required



# Formalized discussion (focusing aid)

	Challenges	Core technologies	Background				Necessary activities			
			Knowledge	Available technologies			arch	onstr.	ov.	-ket ment
				Yes: why not in the market yet?	No: why not?	Projects	% Research	% Demonstr	% Innov.	% Market development

	Scope				Key drivers				
% Market development	National	EU Regions	EU level	International	Tech.	Mkt	Regulation	Priority	Horizon

# **Broadly defined topic**

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

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

- 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

Available knowled > Research

- Are there availab Inn National would help to sol Not, what is the r those technologies have 🎽 ..... the market yet.

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 discussionEFTFSession 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

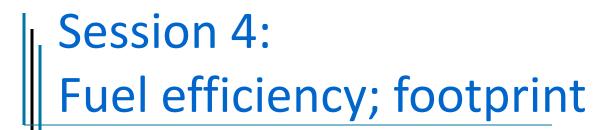
Introductory Speakers: Hanne Digre (SINTEF) and Fabio Fiorentino (IAMC-CNR)

□ 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)





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**





30 Votes

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