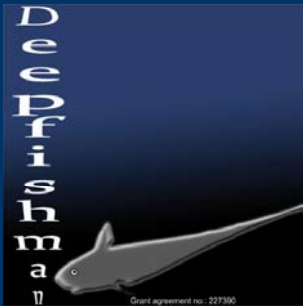


Stakeholder process in DEEPFISHMAN

Pascal Lorange, IFREMER



Overall stakeholder process



- ❖ Workshop in Brussels, 29-30 June 2009
 - DEEPFISHMAN Stakeholder identification
 - SWOT analysis of existing management measures
- ❖ Workshop in Lisbon, 4 December 2009
 - Cognitive maps of Case study fisheries
- ❖ Workshop in Lisbon 4 July 2011
 - stakeholder contribution to model developmement
- ❖ Questionnaires
- ❖ Haul-by-haul catch and effort data provided by staholders
- ❖ Final workshop **TOMORROW!!!**

Workshop in Brussels 29 30 June 2009

Identification of categories stakeholders

Immediate interest	Consequential interest
<p>Fisheries Managers: International and European: RFMOs, EU Council of Ministers and EU Commission, National and Local governments, POs</p>	
<p>Policy advisors: European, National</p>	
<p>Marine Scientists</p>	<p>Gear researchers and developers</p>
<p>Vessel Owners: in deep-sea fisheries, and in other fisheries</p>	<p>Fishers: Vessels Owners and Crew</p>
<p>Environmental NGOs</p>	
<p>Processors & Marketing</p>	<p>Processors & Marketing</p>
<p>Consumers</p>	<p>Fishing Communities</p>

Stakeholders with an interest in DEEPFISHMAN

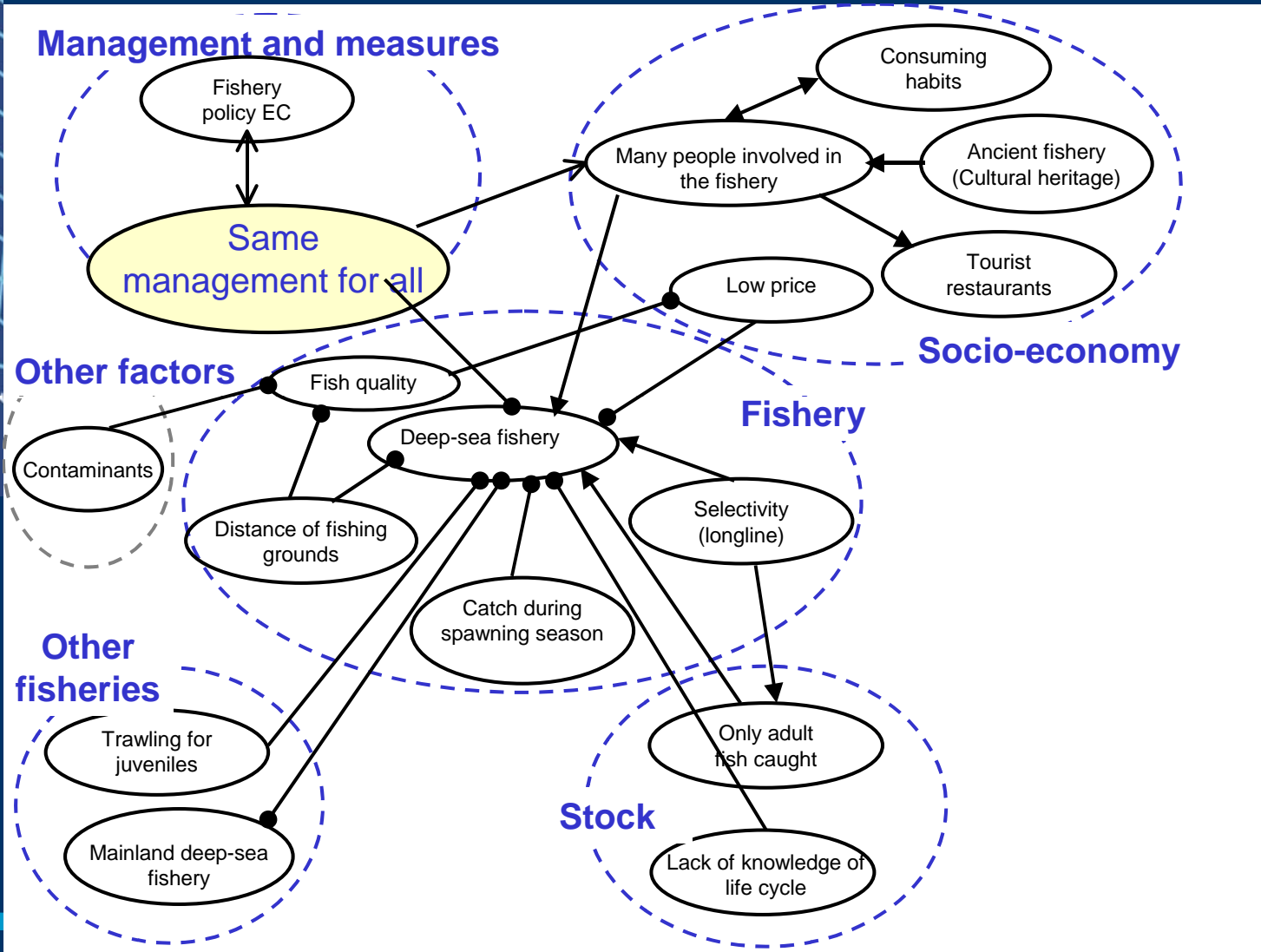
Cognitive maps

Management measures and fisheries systems

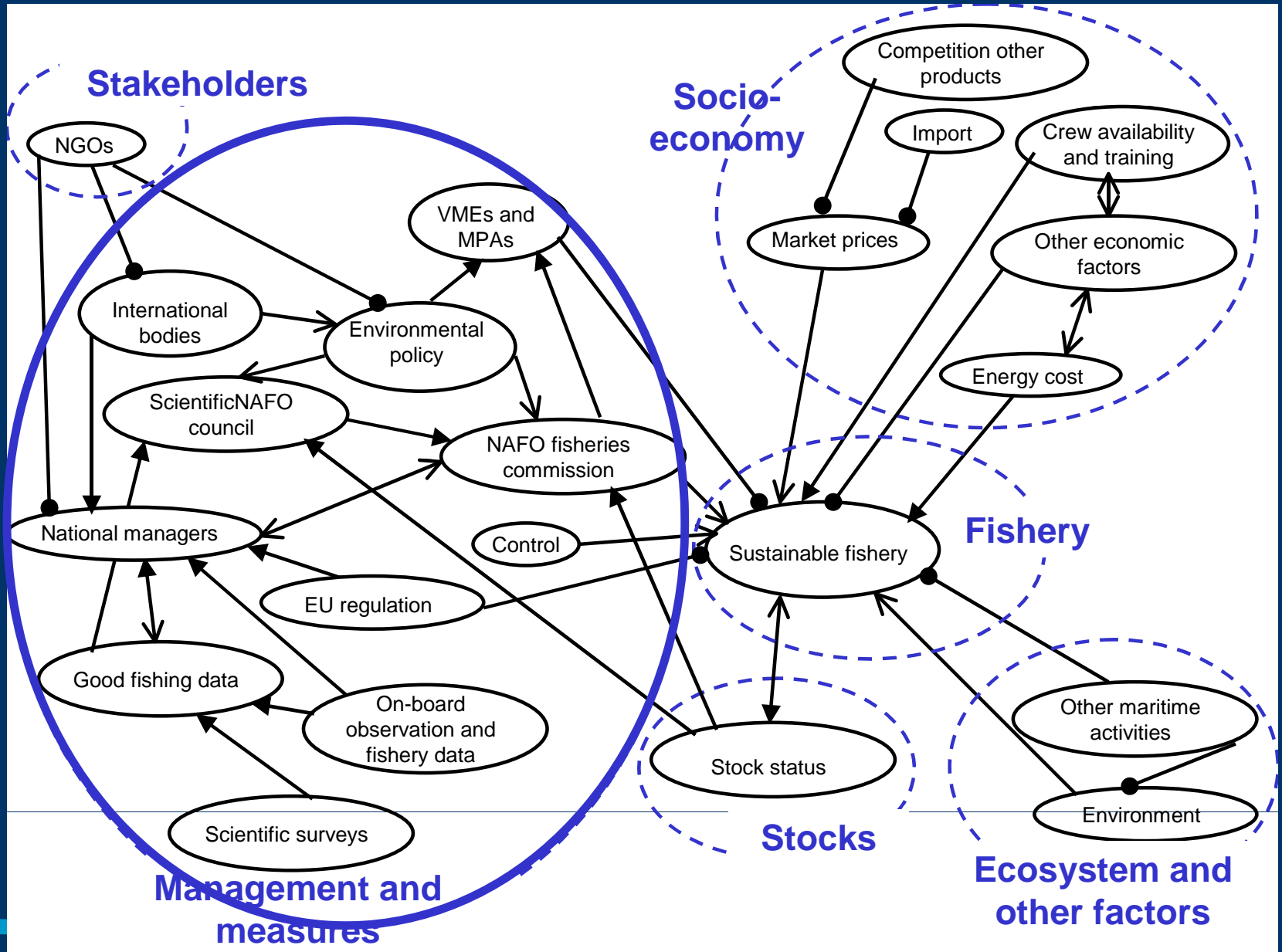
- 7 maps drawn during the workshop

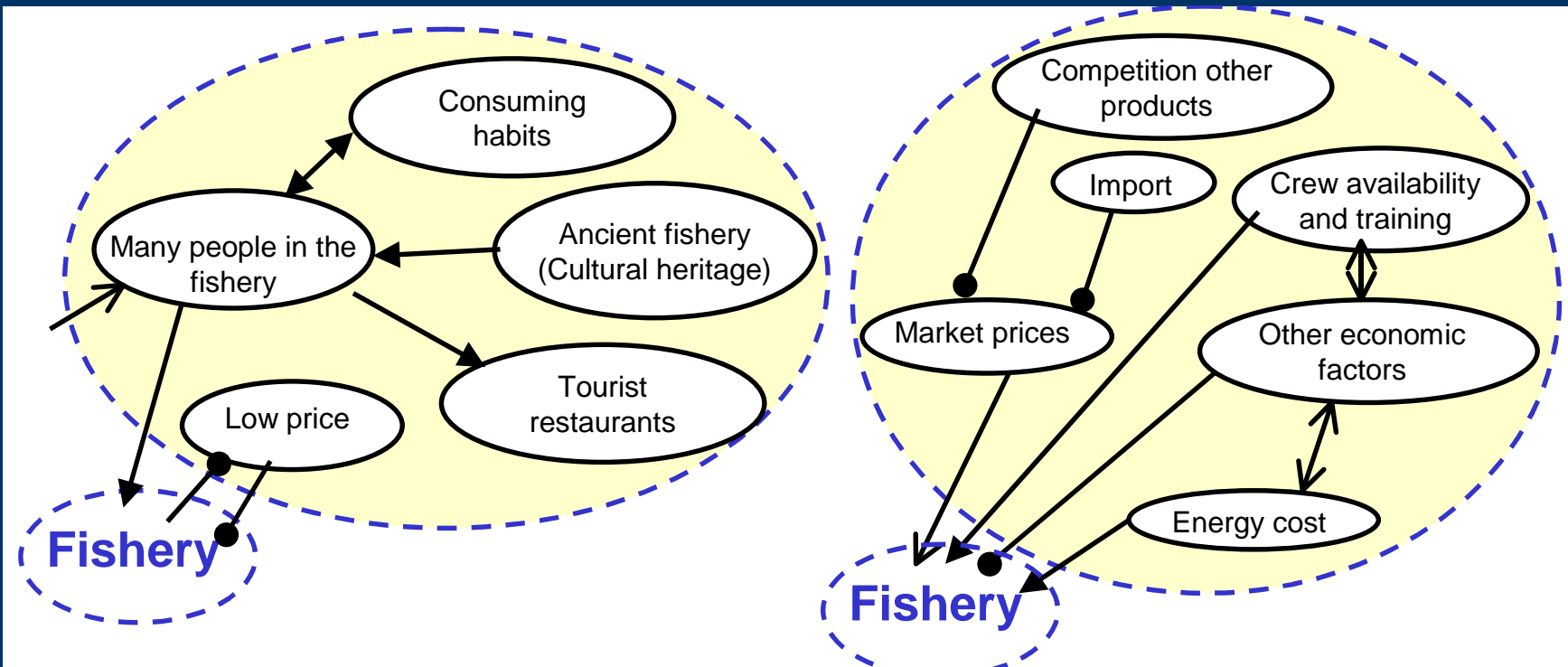
Fishery	Stakeholder type	Participants
Red seabream - Azores	Catching sector	1
Black scabbardfish - Madeira	Administration	1
Black scabbardfish - Pt mainland	Catching sector	4
Black scabbardfish - Pt mainland	NGOs	3
Greenland halibut- NAFO	Catching sector	2
Generic	Fishery consultant	1
Generic	Science	3

Black scabbardfish Madeira - Administration



Greenland Halibut NAFO





**Black scabbardfish
Maderia**

- local factors -

**Greenland halibut
NAFO**

- global factors -

Socio-economy

Issues and solutions derived from cognitive maps

Levers: variables influencing positively or negatively fisheries that can be modified by management

Fishery	Possible levers
Red sea bream Azores	Spatial closure Gear selectivity
Longline black scabbardfish Madeira	Better knowledge of life cycle Temporal closure Regulate sequential fishing Distance of fishing ground Regional management
Longline black scabbardfish Portugal	Bycatch Subsidies (reduce) Spatial closure Fleet size
Trawling Greenland halibut NAFO	Crew availability Imports (reduce)

Questionnaire

Aim: Identify management issues and suitable management measures

Web-based (<http://deepfishman.hafro.is>)

Distributed during one RAC meeting and at regional level

9 questions + free text

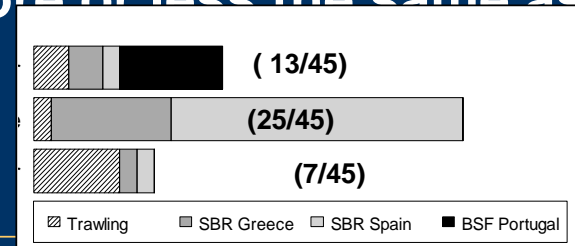
45 responses from 3 deep-water fisheries

Q3: How do you see the future of deep-sea fisheries? Do they hold a better future, worse, or more or less the same as now?

Better (will attract more investors)

Worse (not viable)

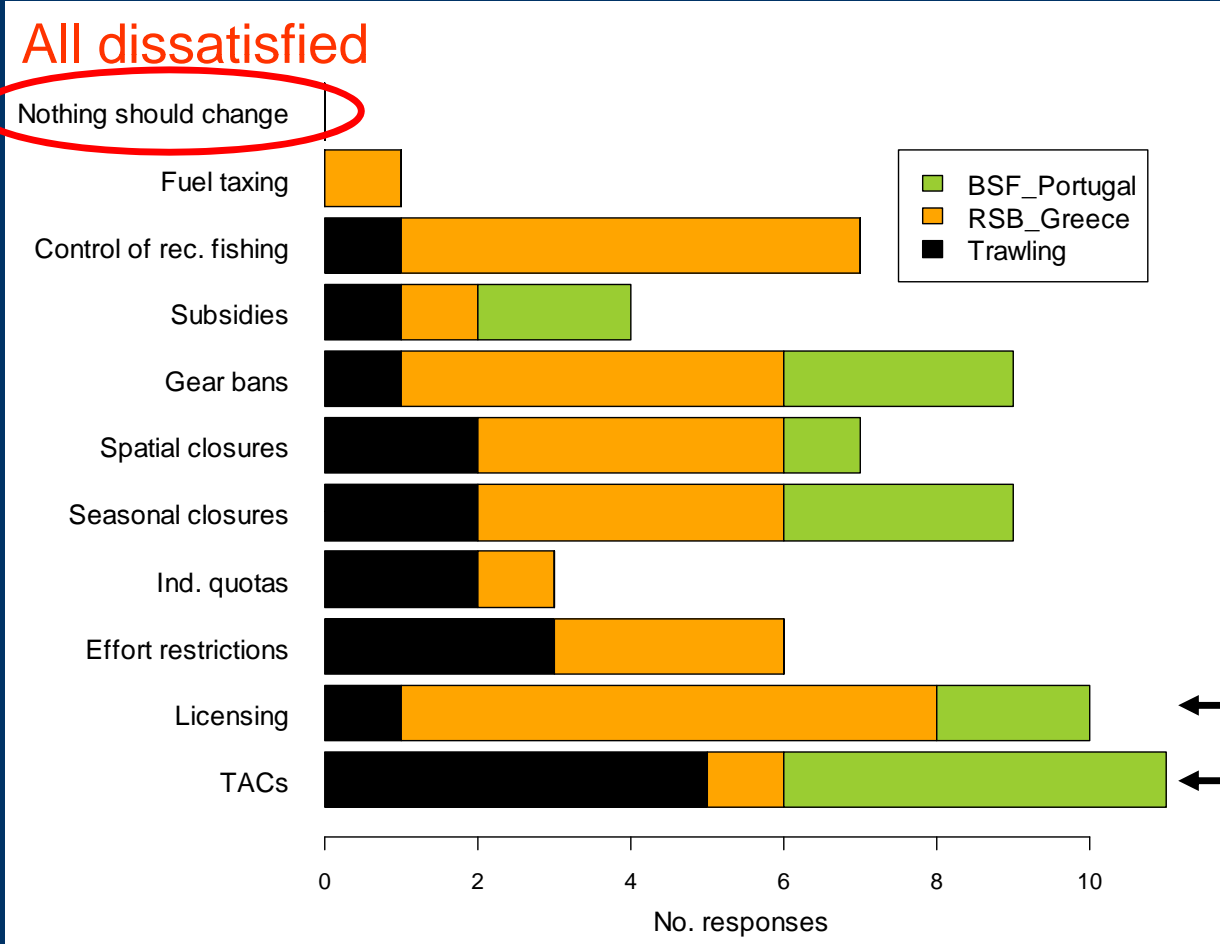
More or less the same (viable)



Stakeholders' perception:

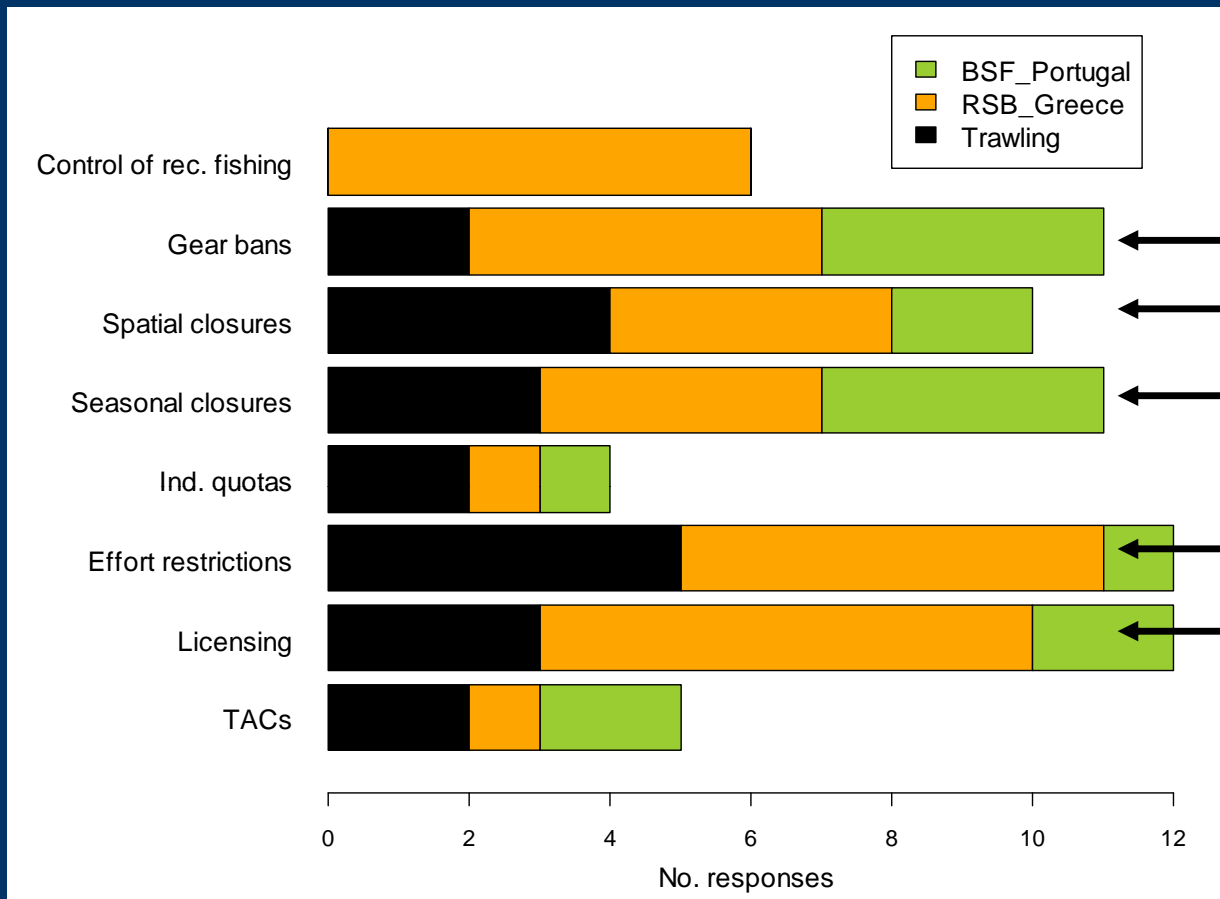
- Not viable fishery for red seabream in Greece
- Two other fisheries perceived viable

Q4: Which of the following management tools would you like to see changed?



Current management not satisfying
 TACs, spatio-temporal closures and licensing most cited
 Diversity of responses

Q5: Which of the following management tools are best suited to protect the deep-water ecosystem?



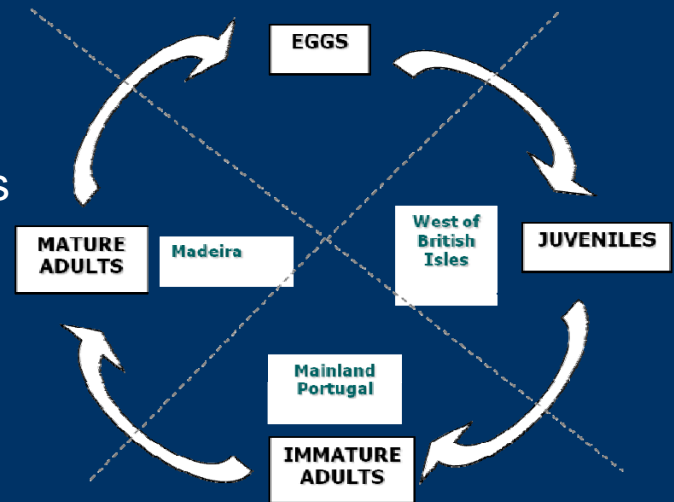
Five management tools favoured

TAC understood as stock management, not ecosystem-based

Stakeholder data and knowledge used for stock assessment

Lisbon, 4 July 2011

Meeting with French and Portuguese fishers to present and get input on the model for black scabbardfish

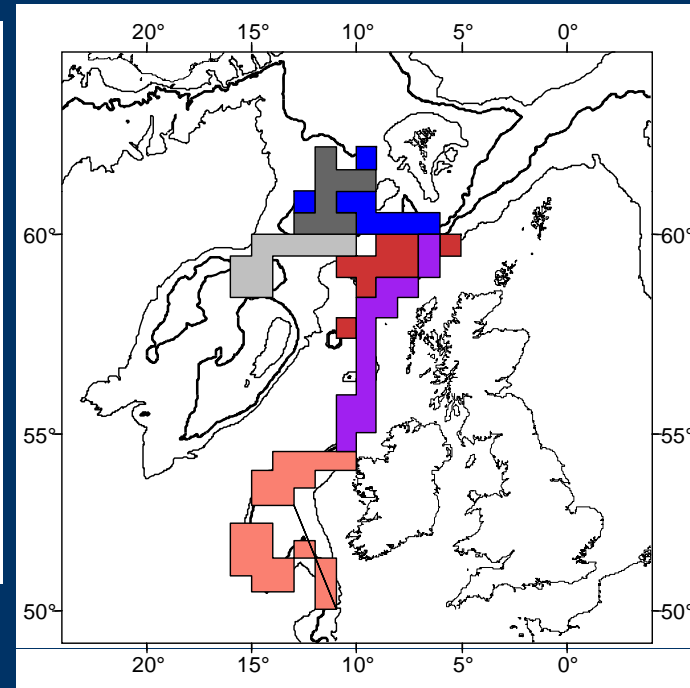


Example: Trawling deep-water fishery in ICES Vb, VI and VII

- Lack of fishery-independent survey
- Lack of abundance indices

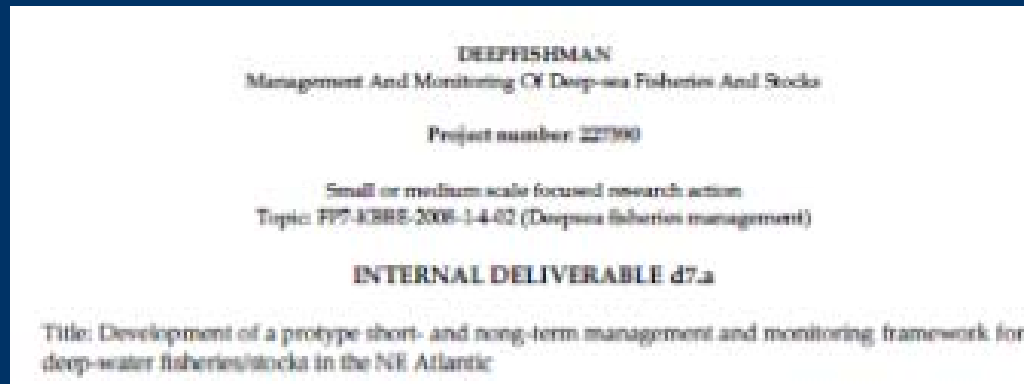
Standardised LPUE indices from tallybooks

EU-Logbook	Tallybook
3-4 hauls aggregated	Each haul
No depth information and fishing at different depths	Depth data
ICES rectangle (some encompass 200-2000 m)	Position




Lorance, P., Pawlowski, L., and Trenkel, V. M. 2010. Standardizing blue ling landings per unit effort from industry haul-by-haul data using generalized additive models. *ICES Journal of Marine Science*, 67: 1650-1658.

Final stakeholder workshop



Objectives:

- presentation of the discussion management and monitoring framework (Andrew's presentation)
- identification of stakeholders views, alternative proposals
- questionnaire



DEEPFISHMAN
Stakeholder workshop, Galway, 31.08.2012
Monitoring and management framework proposal

Name _____

Organisation _____

Email _____

Stakeholder type _____

	Topic	Overall agreement with recommendation (YES/NO)	Comments and suggestions
1	Management of deep-water fisheries in the NE Atlantic at the macro-level (TACs, effort, rights-based management etc)		
2	Definition of deep water and deep-water species		

Acknowledgements

- All DEEPFISHMAN participants have contributed to the stakeholder process
- Thanks to stakeholders contributing to workshops and responding to the questionnaire
- Reports of stakeholder workshops on <http://deepfishman.hafro.is/>

