

New ways to improve the scientific advice for fisheries management

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Fisheries, important?



- MARIFISH
- EC funded project (€3m)
- 18 partners – 15 EU Members States – budget €160m
- 12 out of 15 say **NOT very important**

Contents



- What's available
- Advisory flow in Europe
- New way foreward
 - The scientific needs and tools
- The ultimate challenge for **all** parties involved

Some management measures

- Management of shared stocks
- Command and Control quota based regimes
- Rights-based management
- Effort and capacity-control regimes
- Co-management



Current Status

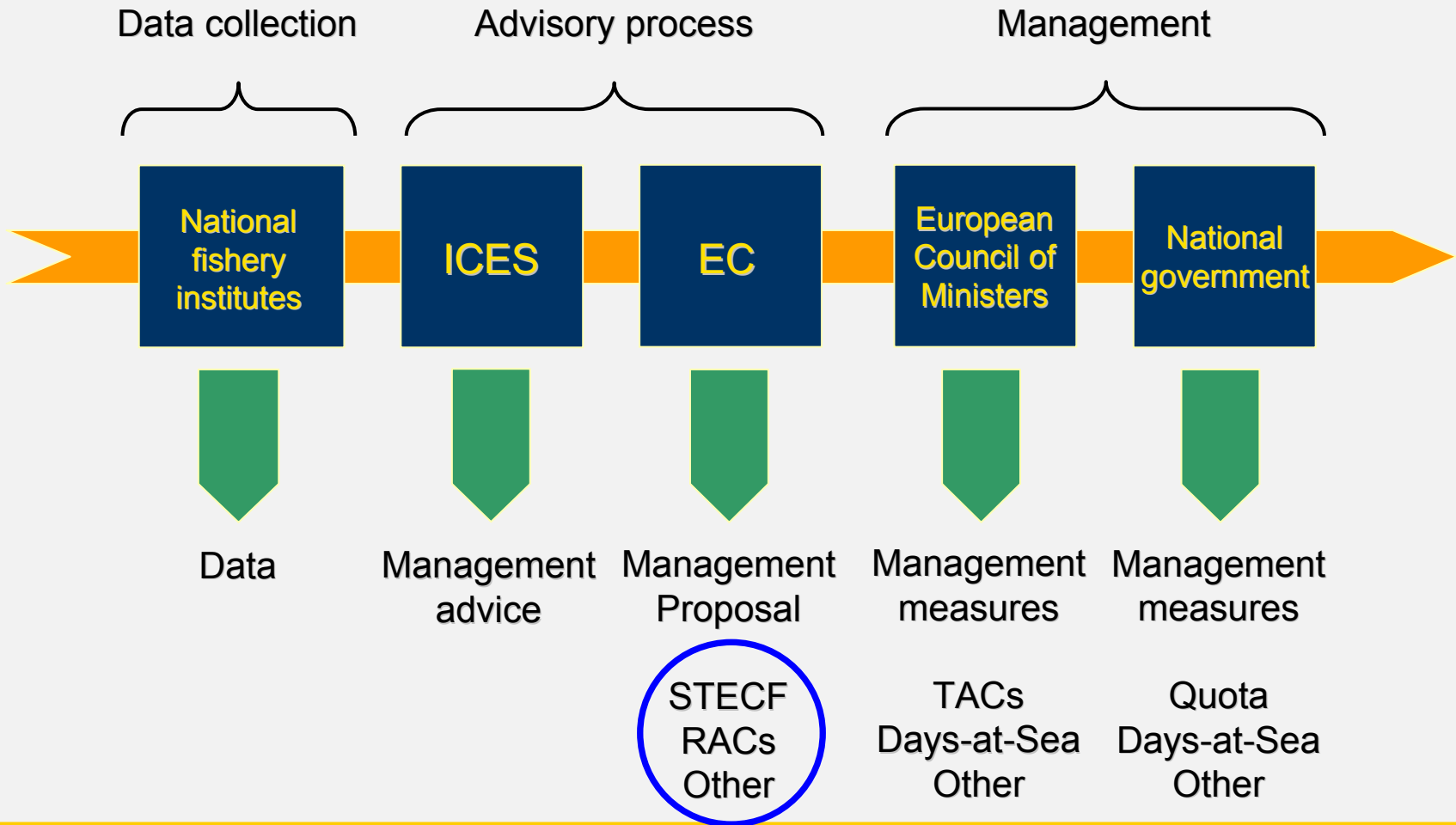
- Sustainability = Common objective
- Relative stability
- Structure: Top-down
- Little room for user participation (RACs)

Possible improvement

- Structure: Bottom-up
- New institutions
- Socio-economics
- Learn from other parts in the world



Advisory and management flow in Europe



Ecosystem Approach to Fisheries (EAF)

Requirements (1):

- Set overall high-level objectives
- Setup institutions (Managers-Scientists-NGOs-Fishers-Other stakeholders) ... transparency ... compliance
- Translate overall objectives into operational objectives
- Prioritise objectives
- Agree on indicators



Ecosystem Approach to Fisheries (EAF)

Requirements (2):

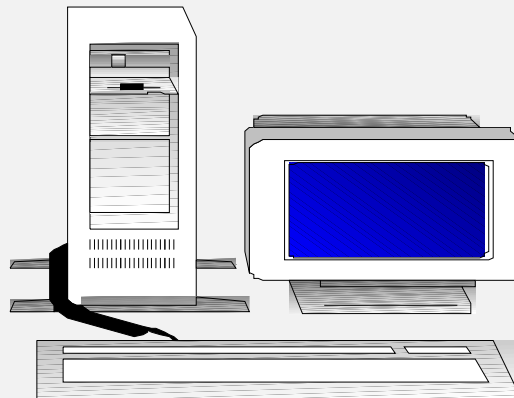
- Develop tools to evaluate objectives and indicators
- Describe trade-offs and risks
- Describe minimum data requirements
- Develop spatially based management systems
- MPAs – Gear modifications – Eco-labelling
- ... and a lot of 'good will' by all parties



Scenario modelling – strategies evaluation

Operational Management Procedure (OMP)

- Qualitative objectives → Quantitative objectives
- Through simulation show risk, trade offs and uncertainty
- Focus on strategic rather than tactical aspects
- Software still in developing stage



Scientific research agenda – Crowded!

- Sustainability of Fisheries
- Sustainability of Aquaculture
- Habitat and Population Linkages
- Climate Change
- Ecosystem assessment and Management strategies
- Ecosystem Effects
- Comprehensive analyses using more data
- Less advice on tactical questions but more on management strategies and robust harvest rules
- And much much more ...



Ways of improvement

- Ecosystem integration in Fisheries = **Unavoidable**
- Integrated cross-sectoral approaches = **All parties**
- Huge complex job for scientist = **Not yet prepared**
- Data needs, data access to do the job = **New DCR**
- Research needs to do the job = **7th Framework**
- From top-down to bottom-up, from predictive to adaptive and from tactical to stratigical
- **EU ? ... improving the right way ?**



I Thank you

