European Fisheries and Aquaculture Research Organisations



On the 15th of May 2019 some 65 participants gathered at the Museum of Natural Sciences in Brussels to discuss during the annual EFARO organised seminar, how to operationalise the Ecosystem Approach in the context of the Blue Economy. The audience consisted of representatives from research organisations, NGOs, policy makers and industry. Below you will find an impression of the day and the main conclusions.

Ensuring sustainable use of our Seas; Linking the Ecosystem Approach with the quest for a Sustainable Blue Economy

The State of Play of Europe's Blue Growth Strategy

"There has been a shift of activity from land to sea: possibilities have been identified in the maritime sector. Our overall goal is to achieve healthy oceans, seas and coastal & inland waters. With the support of the European Maritime Fisheries Fund we can aim for this involving both shared management and direct management."





Roger Martini Senior Fisheries Policy Analyst OECD

The Ocean Economy in 2030

"We expect the size of the blue economy to double by 2030. There is already a lot of pressure on the ocean space in terms of pollution, overfishing among others, but we have to get control on harvest and achieve a change in policies to get to a sustainable level. Despite the concerns of declining fish stocks and depletion, we still see substantial overfishing and declining fish stocks, but it does not match the urgency and demand we need to catch up on. Question is how can we design good subsidies for the fisheries sector as only less than 10% of some subsidies becomes income for fishers?"



Interview with Reinier Hille Ris Lambers, WWF-NL

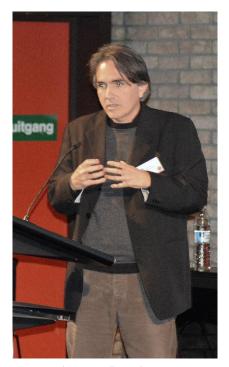
"Instead of looking at the North Sea in different sectors as wind, fisheries and nature, try to see if we could build more synergy. And when you consider the Ecosystem as both delivering ecosystem goods and services but at the same time being the entity producing this, you can compare it to looking at a machine; you can perceive the value of the machine as to what it produces, but you also need to maintain the machine. There is a lot of funding available, but little has been used. Research institutes should ask themselves: what types of governance mechanisms should we have to not just make a small step, but to be ready for 2030?"



On the left: Reinier Hille Ris Lambers, WWF-NL

Essential Ecosystem Approach to Fisheries Management

"We need to think of sustainability in fisheries in three main boxes: ecological wellbeing ,human wellbeing (both at community and national level) and the ability to achieve (governance, impact on environment). Policies are often not clear: there is a need to integrate fisheries in a broader process of coastal planning together with other marine sectors, making this integration challenging. We cannot move alone, we need to promote broad stakeholder participation in order to achieve our goals. Yet limited means and capacity exist which has a draw back on how to provide the appropriate data for EAF implementation, and good social and economic information is lacking."



Marcelo Vasconcellos, Fishery Resources Officer at FAO



Interview Emily McGregor Marine Stewardship Council (MSC) Fisheries Assessment Manager

"The overall goal is to minimize environmental impact and therefore three pillars are identified: achieve sustainable fish stocks, minimize the impact of sea life and perform effective fisheries management. Despite the fact that 60% of our seafood consumed in EU comes from outside, MSC remains very relevant to ensure sustainability and traceability of the product. Behind the crest of the wave: science and management practices are moving, and we as MSC follow along."



Emily McGregor Marine Stewardship Council (MSC) Fisheries Assessment Manager



Raúl Prelezzo Principal Researcher AZTI

Interview Raúl Prelezzo Principal Researcher AZTI

"The profit of the fleet is not only an economic thing; we also need to understand the use of ecosystem services, the impact we have on them and the social circumstances under which we use and produce them. In the light of a blue growth opportunity, we are not only trying to meet the demand that is there, but we need to try to create ways to address changing and growing new demands and cater for a Blue Economy that expands. We know the pros and cons of ecosystem based management, but there are still some issues: as the marine sector in the EU is small, in terms of overall contribution to the GDP, all the main developments and drivers come from outside the sector such as for example the rapid development in information & communication technology and practices."



Matjaž Malgaj Head of Unit Marine Environment and Water Industry DG ENVIRONMENT European Commission

Interview Matjaž Malgaj Head of Unit Marine Environment and Water Industry DG ENVIRONMENT European Commission

"Keeping the oceans relatively healthy is the overall primary objective. There is a need to achieve an equal understanding between scientists and policymakers."





Tammo Bult, President EFARO

"Don't be afraid of complexity. If people feel the urgency and take responsibility, they will overcome complexity."

The presentations made during the day will be made available as PDF on the EFARO website (<u>www.EFARO.EU</u>)





State of Play of Europe's Blue Growth Strategy

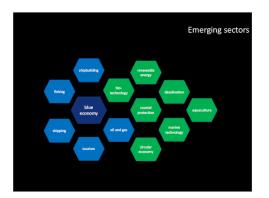


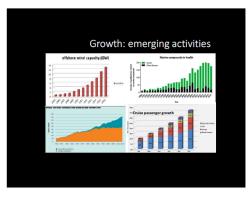


- reduce emissions
- circular economy

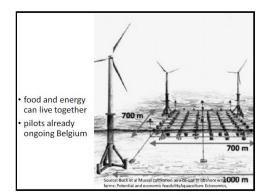


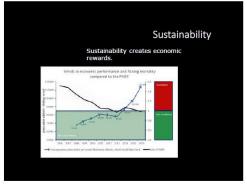










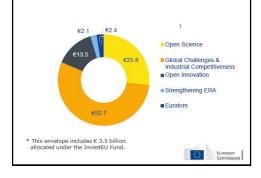


Increasing investment

better & more research
better data
more skills
easier access to funding

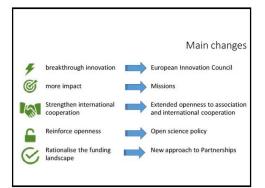


And better governance!

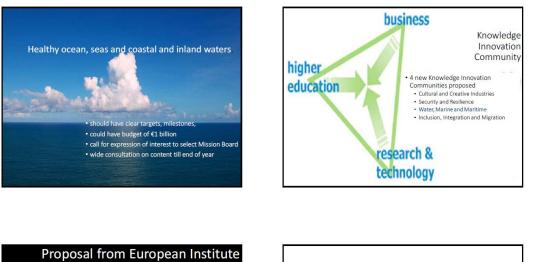


Horizon Europe: €100 billion*

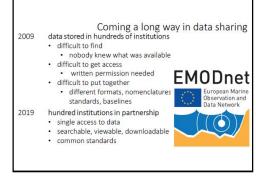




















transformation)
A greener, low-carbon Europe (including energy transition, green and blue investments, the circular economy, climate adaptation and risk management)
A more connected Europe (mobility and ICT
From 6 UP to 4 EMFF Priorities

> European Commission

- A more social Europe (the European Pillar of Social Rights)
- 5. A Europe closer to citizens (sustainable development of urban, rural and coastal areas and local initiatives)



European Commission

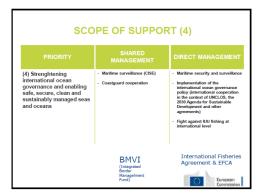


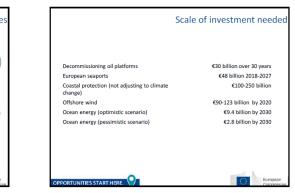


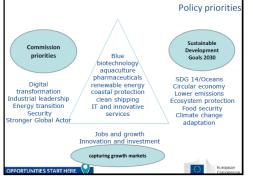
sco	SCOPE OF SUPPOR	
PRIORITY	SHARED MANAGEMENT	DIRECT MANAGEMENT
(3) Enabling the growth of a sustainable blue economy and fostering prosperous coastal communities	 Community led local development (scope estimates the black economy) Marine Isnocledge (Plabitat' and Birds' Directives, martime spatial planning, EMCDnet) 	Promotion of a sustainable, low- carbon and cimate-resilient blae economy Integrated governance and management of the maritime space Transfer and uptake of research, innovation and lechnology in the sustainable blae economy an sharing of socio-economic data Development of project pipelines and innovative financing instruments
		European

SCOPE OF SUPPORT (2)		RT (2)
PRIORITY	SHARED MANAGEMENT	DIRECT MANAGEMENT
(2) Contributing to food security in the Union through competitive and sustainable aquaculture and markets	Agusculture Marketing of Steep and aquaculture products Processing of fishery and aquaculture products	 Market inhibitiones for finite and aquasifilitie products
		European Commission

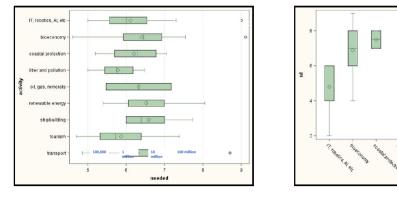


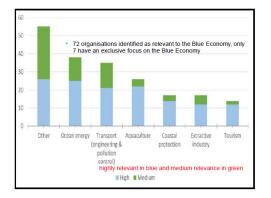


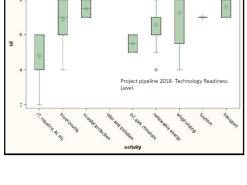








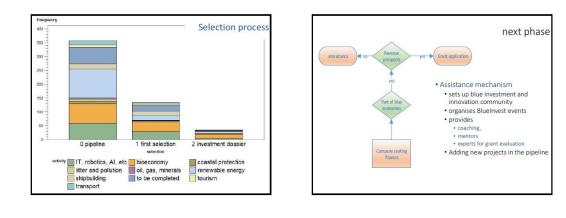
























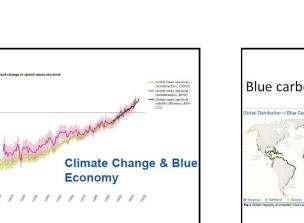
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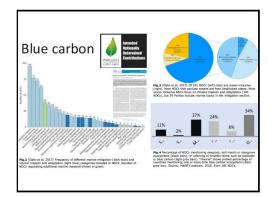
28 November, 2018)

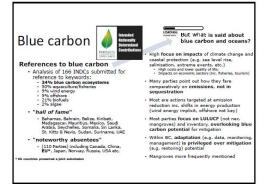


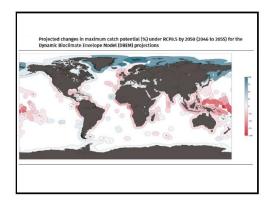




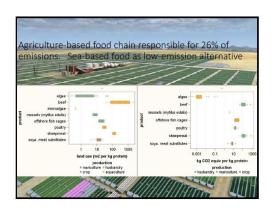


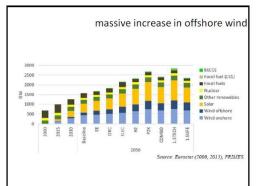














Wave and Tide Power

- prototypes in the water and connected to the grid
- regular delivery of power complements wind and solar power
- can decarbonise islands
- Ocean Energy Europe reckon 100 GW in Europe by 2050



Research questions

- What is the value of marine space?
- Maritime/Marine space: from « commonising » to « privatising »?
- Fisheries and other maritime/marine sectors > are there « opportunity » costs?

European

Blue economy: should we « sacrifice » some marine sectors to decarbonise the economy?



- Fisheries and MSP: friends or foes? .
- •
- Do we it in land, rather than on the sea? (e.g. Aquaculture) Or move we things from land to sea? (e.g. algae culture replacing agriculture?) Reversibility: should be we do things at sea because they can be easily rolled back? Is the latter true?
- •
- can be easily rolled back/1s the latter true?
 Investment in the blue economy -> is it more value to invest in ecosystems, rather than in « industrial » sectors?
 What about sustainable Blue Economy finance? Can we measure it? How to measure performance against the 14 principles?



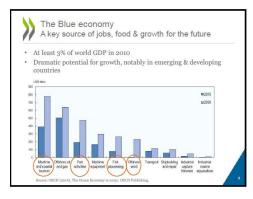


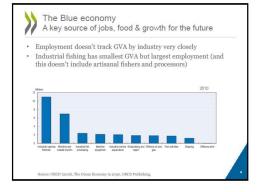


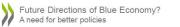
The Ocean Economy in 2030









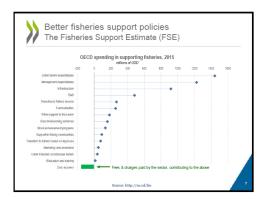


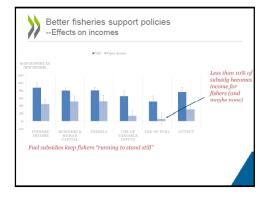
→ Better policies are needed to enable the blue economy to thrive sustainably and sustain resilient communities worldwide

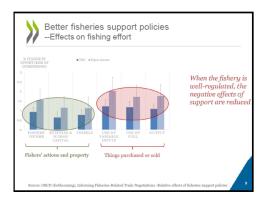
- \rightarrow A **multilateral response** is underway, but **action at local and national levels** is urgently needed to put commitments into practice
- → A concerted "blue" vision that sustains a whole of government approach to policy reform can guide policy change in all relevant sectors

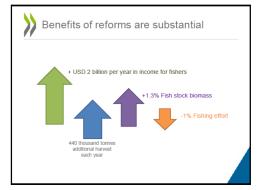


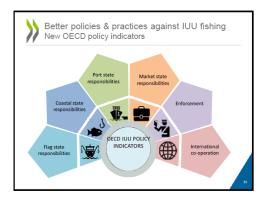


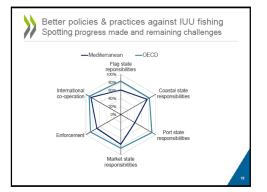














Objectives for sustainable ocean use are often \mathbf{i} undermined by policies to support incomes or production

- Key elements for successful reforms:
- Data & science mobilisation
- Targeted incentives, compensation & transition measures
- Commitment mechanisms • Whole of government approach
- Transparent & balanced dialogue with all stakeholders

- Find out more in recent OECD reports
- OECD (2018) <u>Relative effects of fisheries support policies</u>
 OECD (2018) <u>Closing Gaps in National Regulations Against IUU</u>
- Fishing •
- OECD (2019) Encouraging policy change for sustainable and •
- .
- DECD (2017) The Political Economy of Biodiversity Policy Reform. OECD (2017) The Political Economy of Biodiversity Policy Reform. OECD (2017) Marine Protected Areas: Economics, Management, Effective Policy Mixes.



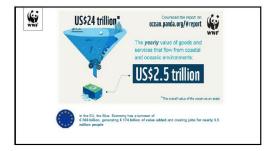


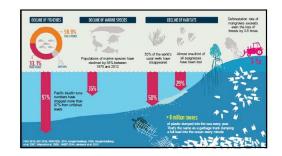
WWF and the Blue Economy



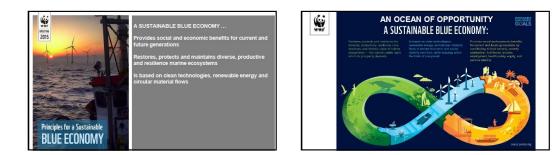
TOC		
WWF		
Oceans Facts		
Sustainable Blu	e Economy Finance Principle	s
Case Study Nor	th Sea	
Opportunity kn	ocks #1 EMFF:	
Opportunity kn	ocks #2 Cameras	
Opportunity kn	ocks #3 Climate	
Oyster Bank Re	storation	
Examples from	Implementation Seminar	
Cadiz MPA		
Telaščica MPA		
To Do List		



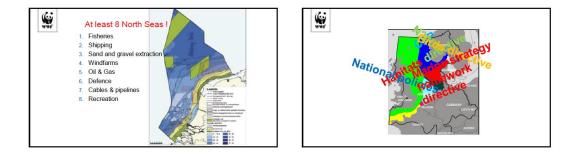




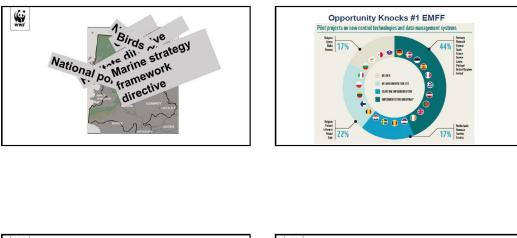


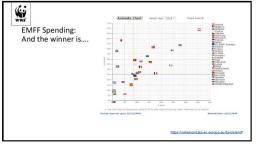


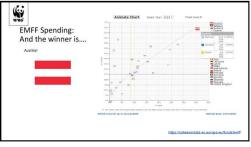




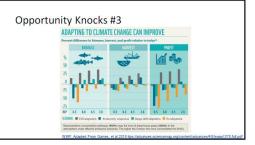






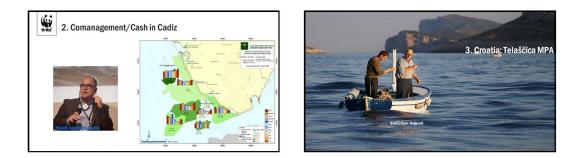


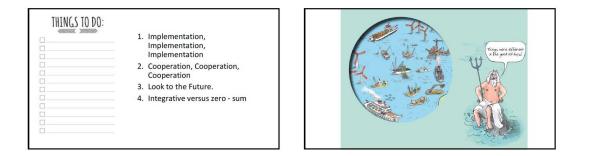








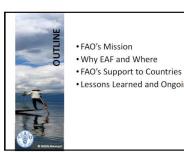






Essential Ecosystem Approach to Fisheries Management



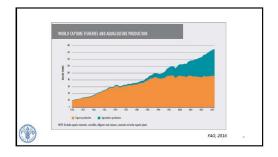


FAO's Mission

• Why EAF and Where

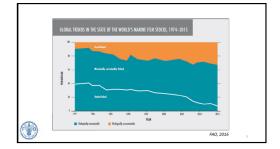
• Lessons Learned and Ongoing Work











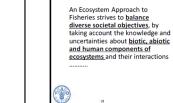
The cost of mismanagement

- Income lost annually due to mismanagement of the world's marine fisheries: US\$ 80 billion in 2012
- The restoration of fishing would yield substantial
- returns: •Increase in the abundance of resources
- Average price increase
- Recovery of higher valued species currently overexploited

Why an ecosystem approach to fisheries management?

- Poor performance of current management practices and lessons learnt from past FM failures
- Degradation of fishery resources and the marine environment
- Recognition of a wide range of societal interests in marine ecosystems and the need to reconcile these

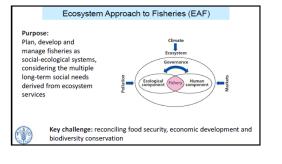
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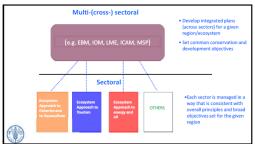


EAF – People Are Critical

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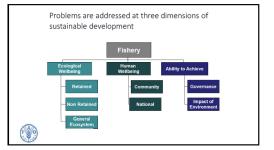




Basic Principles of an EAF Maintain ecosystem integrity Improve human well-being and equity Apply the precautionary approach Develop an adaptive management systems Ensure compatibility of management measures (across jurisdictors) Broaden stakeholder participation and promote sectoral integration Improve research to better understand ecosystems in all components Conservation and management decisions based on the best available knowledge None of the principles that underlie the EAF are new (re. sustainable development) Implementation of these principles lags behind.

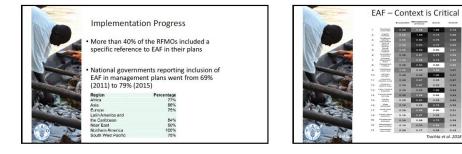


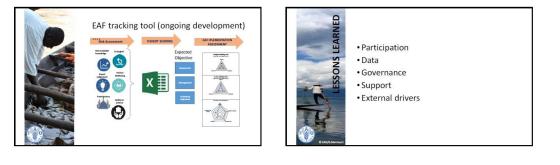






Sec. St.





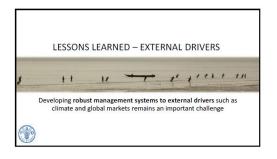














Adaptation tools for climate change
Synergies between EAF and Blue

Growth







