



Opportunities for Fisheries and Aquaculture research in FP7

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- **What is new in FP7?**
- **How the annual work programmes are elaborated?**
- **Strategic plan for F&A in FP7?**
- **What has been done so far (T2/T6)?**
- **Opportunities in Work programme 2009?**
- **New initiatives by the Commission**



FP7 - What has changed compared to FP6?

- Structure of the FP
- Duration (7 years)
- Simplification (instruments, timing calls)
- Budget/year
- Cross-cutting calls
- International cooperation (SICA)
- **Competition within each theme**



What is new?

- **Transfer MARE/C4 to RTD/E4 agreed,**
- **Communication on EU Strategy for M&M research adopted by the Commission (3/09/08) with a list of actions (joint calls under WP 2010),**
- **First contracts FP7,**
- **Green paper on new orientation of the CFP in 2009**
- **New initiatives Maritime Policy: Emodnet, spatial planning, maritime governance**
- **New DCR regulation in place in 2009 (including studies)**
- **Identification topics in WP 2010 starting**
- **New Communication on Joint research programming**



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The 7th EU Framework Programme (2007-2013)

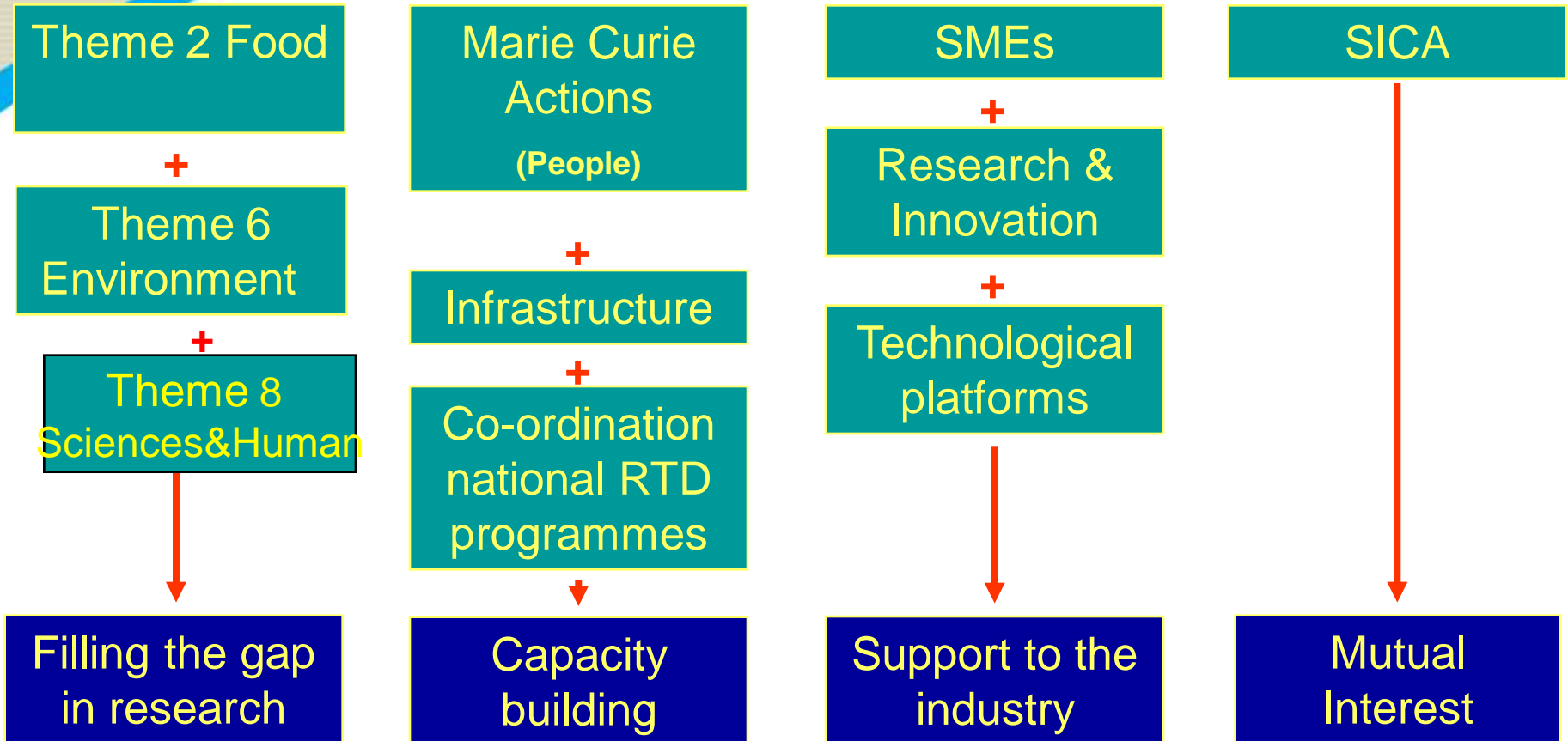


Specific Programmes: Total 53 billion €





FP 7 Opportunities



Sustainability of the fisheries and aquaculture sectors





Cooperation – Collaborative research

9 Themes

1.	Health	6.100 B€
2.	Food, agriculture, fisheries and biotechnology	1.935 (6.0%)
3.	Information and communication technologies	9.050
4.	Nanosciences, nanotechnologies, materials and new production technologies	3.475
5.	Energy	2.350
6.	Environment (including climate change)	1.890
7.	Transport (including aeronautics)	4.160
8.	Socio-economic sciences and the humanities	0.610
9.	Security and space	2.780



2. Food, Agriculture, Fisheries and Biotechnology

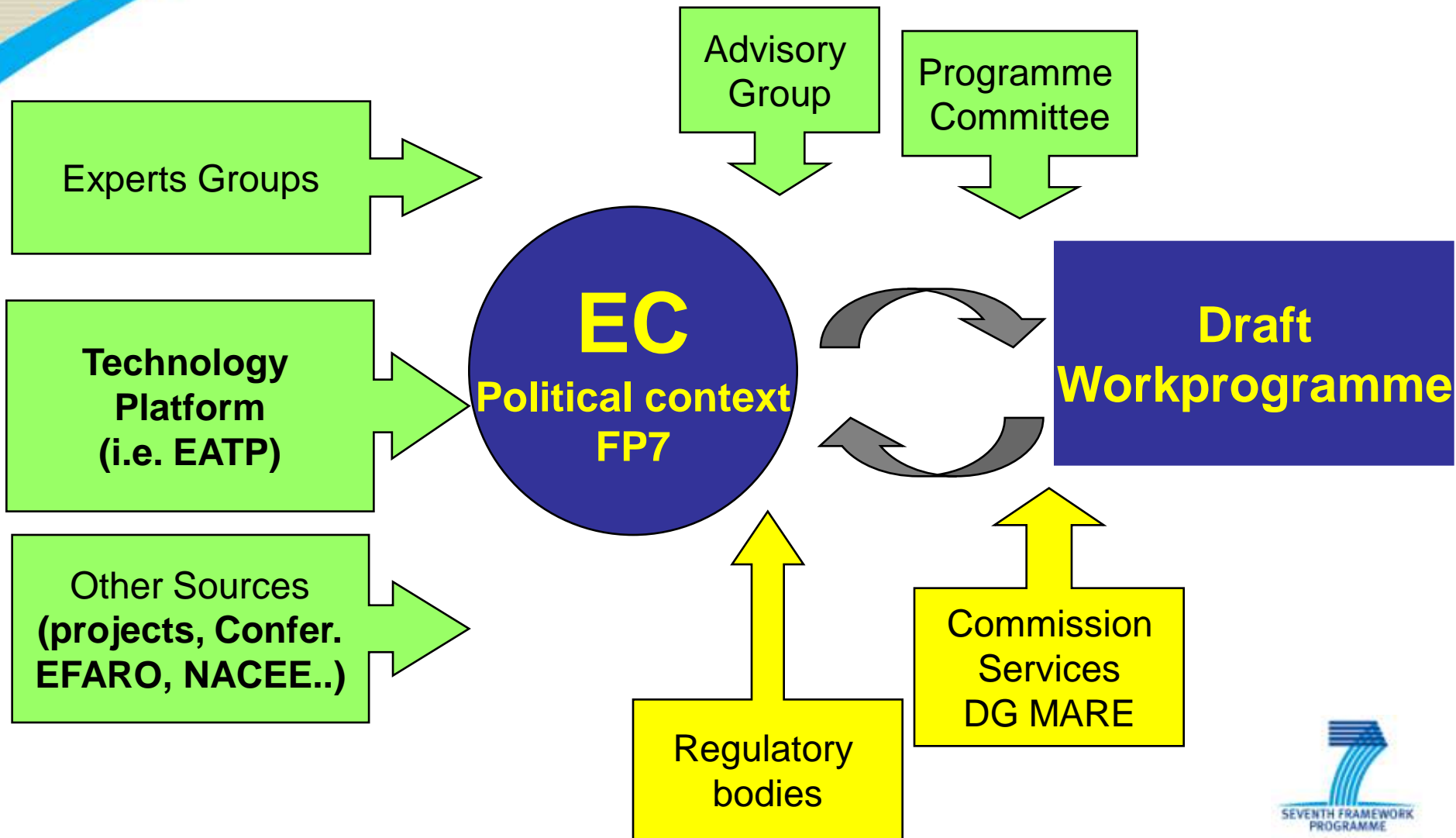
**Sustainable production and management of biological resources
from land, forest, and aquatic environments**

“Fork to farm”: Food (including seafood) health and well being

**Life sciences, biotechnology and biochemistry for sustainable
non-food products and processes**



From the political text to the workprogramme





Elaboration annual Work programmes under FP7 (Inputs)

- **Research Institutes**
- **Technology Platforms**
- **Networks of researchers (Efaró, EAS, ..)**
- **International organisations (ICES..)**
- **International conferences**
- **Output FP6 projects (e.g. Foresight, Profet-Policy)**
- **ERANETS/ETP/COST**
- **WG of experts invited by the Commission**
- **Programme Committee (MS)/Advisory group**
- **Other DGs (Preconsultation, ISC)**



Strategic Plan Fisheries and Aquaculture in FP7 DRIVERS

- **Political drivers**
 - **Revision CFP (right-base management, result base management),**
 - **Aquaculture Strategy**
 - **ERA (European Research Area)**
 - **Maritime Policy and EU Strategy for marine&maritime research (integrated research, joint calls, coordinated infrastructure, partnership)**
 - **Marine strategy Directive (healthy marine environment by 2021)**
 - **International Commitments (Johanesburg 2002, FAO code of conduct ..),**
 - **Etc**
- **Environmental drivers**
 - **Climate change**
 - **Anthropogenic drivers (pollution, eutrophication ..)**
- **Actors**
 - **Stakeholder participation,**
 - **Regional approach**



Strategic Plan Fisheries and Aquaculture in FP7 Main orientations

- 1 – Integrating fisheries and aquaculture research in the context of European research Area and in the new Maritime Policy**
- 2 – Establishing the knowledge-base for developing EU fisheries and aquaculture and broaden the scope of research**
- 3 – Structuring European Fisheries and Aquaculture Research:**
 - Reinforcing the partnership and infrastructures**
 - Developing human capacity building**
- 4 – Promoting knowledge transfer and innovation**
- 5 – Reinforcing international cooperation**



Broaden the scope of fisheries and aquaculture research

Natural Sciences

Climate and Ocean

Marine Communities and food webs

Fish stock dynamics under
exploitation and fishing impacts

Management strategies
(management plans)

Management tactics
(short term prognosis)

Technology for sustainability

General basis



*Fisheries specific
, applied*

Social Sciences

Fishing Communities

Societal outcomes
of fisheries

Institutional framework
for good governance

Economic and
social impacts
of management



Strategic Plan Fisheries and Aquaculture in FP7 Priority line - Fisheries

- Main line 11: Knowledge-base for an ecosystem approach to fisheries management**
- Main line 12: Investigating the societal outcomes of fisheries**
- Main line 13: Developing new fisheries management measures**
- Main line 14: In depth understanding of essential biological functions of farmed aquatic animals and integration to the production cycle**
- Main line 15: Sustainable aquaculture feeds for safe and healthy seafood for the consumer**
- Main line 16: Ecosystem approach to aquaculture (including regulatory framework)**
- Main line 17: Developing new aquaculture products/new production methods/new species**



What has been done so far (Theme 2 - 2007 to 2009 - Fisheries)

Line 11- Knowledge-based for an ecosystem approach to fisheries management

- 1. The structure of fish populations and traceability of fish and fish products (**FISHPOPTRACE**)
- 2. Mitigating adverse impacts of fisheries (**MADE**)

Line 12 - Investigating the social outcomes of fisheries



What has been done so far (Theme 2 - 2007 to 2009 - Fisheries)

Line 13 - Developing new fisheries management measures

- 1. Governance for an operational regional ecosystem approach to fisheries management (MEFEPO)
- 2. Addressing uncertainty and complexity - governance for fisheries management (JACKFISH)
- 3. Deep sea fisheries management (DEEPFISHMAN)

International

- 1. Improving research in support to scientific advice to fisheries management outside EU waters (TXOTX)

Topics not funded due to poor quality of proposals

- 1. Improving cost efficiency in the fisheries
- 2. Defining limits to discards



What has been done so far (Theme 2 - 2007 to 2009 – Aquaculture)

Line 14 - Essential biological functions

- 1. From capture-based to self sustainable aquaculture - Tuna (**SELFDOT**)
- 2. Essential biological functions related to the most relevant stages of aquaculture fish life-history (**LIFECYCLE**)

Line 15 – Sustainable aquaculture feeds

Line 16 - Ecosystem approach to aquaculture

- 1. Assessment and mitigation of the impact of aquaculture on wild populations (**PREVENT ESCAPE**)
- 2. Microbial control for more sustainable aquaculture (**PROMICROBE**)



What has been done so far (Theme 2 - 2007 to 2009 – Aquaculture)

Line 17 - Developing new products, new production methods, new species

International

- 1. Consolidate alliances with third countries in the field of aquaculture (**SARNISSA – Sub-Sahara**)

Topics not funded due to poor quality of proposals

- 1. Interactions of fisheries and aquaculture of bluefin Tuna



Line 11- Knowledge-based for an ecosystem approach to fisheries management

- Improving fisheries assessment methods by integrating new sources of biological knowledge (call open 3/09/08)
- Sustainable use of seas and oceans: importance of foraging fish in the ecosystem (call open 3/09/08)

Line 12 - Investigating the social outcomes of fisheries

Line 13 - Developing new fisheries management measures

- Integration fisheries and aquaculture in the coastal zone (call open 3/09/08)

Line 14 - Essential biological functions

- From capture-based to self-sustained aquaculture - Eels (call open 3/09/08)

Line 15 – Sustainable aquaculture feeds

Line 16 - Ecosystem approach to aquaculture

- Supporting governance in aquaculture research and innovation (call open 3/09/08)

Line 17 - Developing new products, new production methods, new species

- Improving mollusc spat production in hatcheries (call open 3/09/08)
- Sustainable inland extensive and semi-intensive aquaculture (call open 3/09/08)

International

- Consolidate alliances with Asia in the field of aquaculture (call open 3/09/08)
- Consolidate alliances with the Mediterranean in the field of aquaculture (call open 3/09/08)

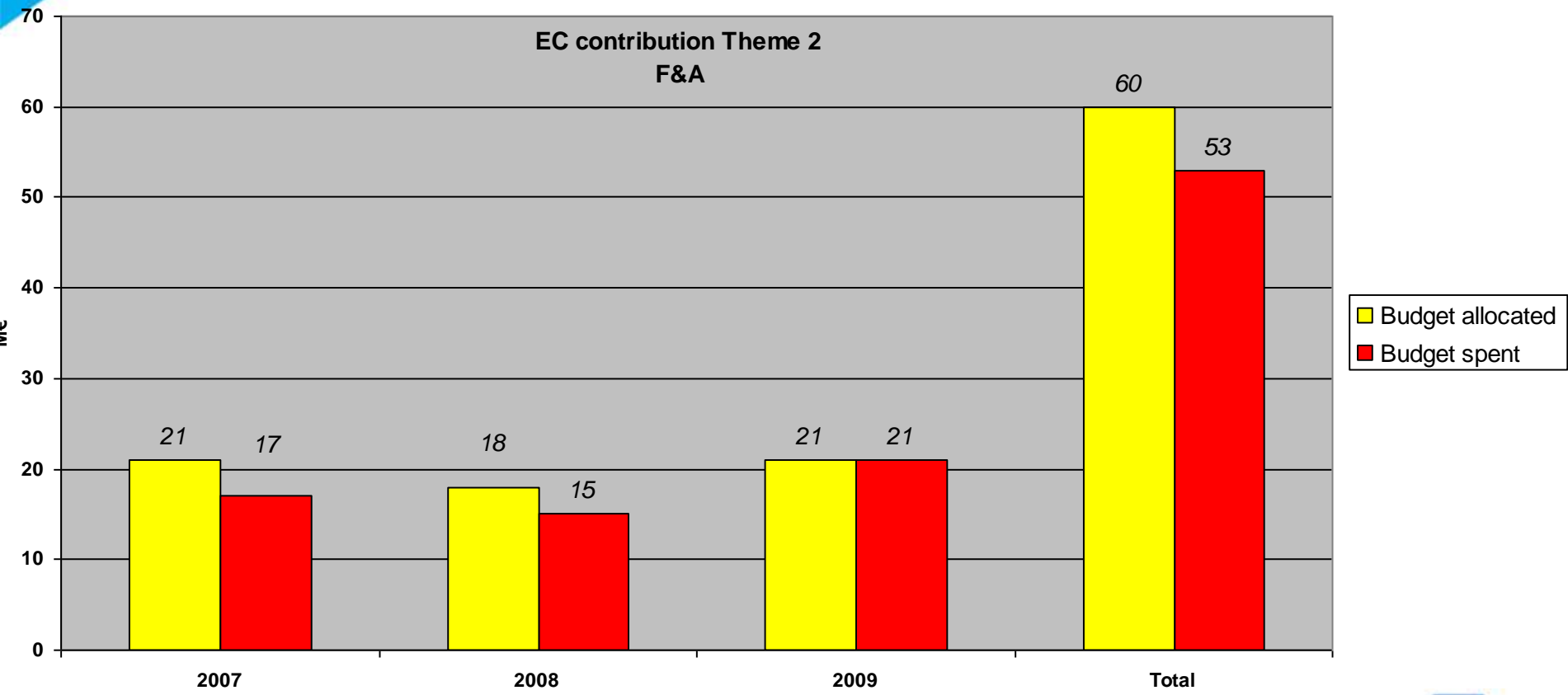


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Priority line – F&A

What has been done so far (Theme 2 - 2007 to 2009)





What has been done so far (Theme 6 - 2007 to 2009)

Pressure on Environment and Climate

- 1. Pressures on environment and climate – Ocean acidification (**EPOCA**)
- 2. Stability thermo-haline circulation (**THOR**)
- 3. Sea Level Rise (**Ice2sea**)
- 4. Climate change impacts on Thresholds on Arctic Ocean (**ATP** – Arctic Tipping Points)

Biological knowledge

- 1. Ecology important marine species (**EELIAD - Eels**)
- 2. Ecology important marine species (**SALSEA-Merge – Salmon**)
- 3 - Life in Extreme Environments (**CAREX**)

Development of ecosystem models to help our understanding of the functioning of the ecosystems

- 1. Habitat-marine species interactions deep-sea (**Coral Fish**)



What has been done so far (Theme 6 - 2007 to 2009)

Impact of anthropogenic factors on the marine ecosystems

- 1. Dynamic marine ecosystems in a changing environment (**Meece**)
- 2. Ecosystem approach to marine environment and resources (**KnowSeas**)
- 3. Monitoring and observing oxygen depletion throughout the different Earth system component (**HYPOX**)
- 4. Deep sea ecosystems (**HERMIONE**)

Spatial Planning

- 1. Monitoring and evaluation of spatially managed areas (**MESMA**)

Coordination marine research in the EU



Opportunities 2009 (Theme 6 - Environment)

Pressure on Environment and Climate

- Climate change impacts on the marine environment- public perception

Biological knowledge

- Contribution to sub-seafloor sampling programmes to European deep-sea research

Development of ecosystem models to help our understanding of the functioning of the ecosystems

- Option for Ecosystem-based management

Impact of anthropogenic factors on the marine ecosystems

- Management and protection of coral reefs in the Wider Caribbean (SICA)

Spatial Planning

- Integrated Coastal Zone Management (SICA)

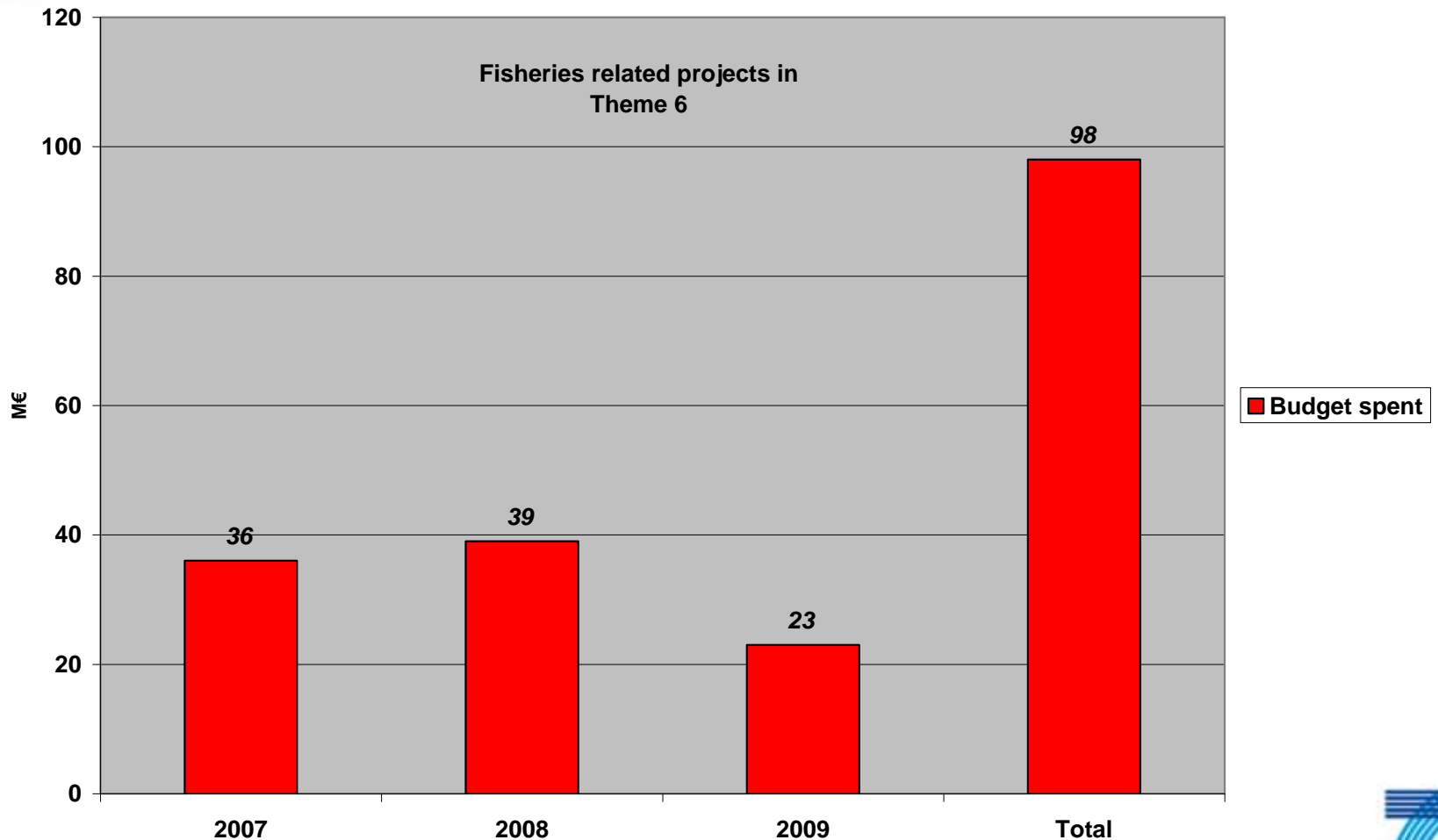
Coordination marine research in the EU

- Towards integrated European marine research strategy and programmes (ERANEt)
- Support to "Maritime Partnership"



Priority line – F&A

What has been done so far (Theme 6 - 2007 to 2009)





WP 2010 – Theme 2

Possible areas

- **Joint calls between different themes on main challenges** (climate change, ..)
- **Research in support to the revision of the CFP:**
- **International cooperation (fisheries in the Mediterranean and Black Sea)**
- **Aquaculture**
 - Welfare
 - shellfish disease
- **Complementarity with Theme 6 (marine ecosystems)**



Options for marine Cross thematic calls under WPs

- **WP 2009 = Marine coordinated topics between theme 2, 5 and 6 on “sustainable use of Seas and Oceans”**
- **WP 2010 = marine joint call (s) on topics of cross-cutting nature identified in the Communication EU strategy for marine& maritime research**
- **> 2010 Partnership between national and Community research programmes (marine/maritime ERA-NETS, TPs)**



Marine coordinated topics (11) under WP 2009

Theme 2 "Food, Agriculture & Fisheries and Biotechnology:

Sub-activity 2.1.2 – Increase sustainability of all production systems

- - KBBE-2009.1.2.14: Importance of foraging fish in the ecosystem (SCP)
- - KBBE-2009.1.2.15: Integration of aquaculture and fisheries in the coastal zone (SCP)

Sub-Activity 2.3.2 – Marine and fresh water biotechnology (blue technology)

- - KBBE-2009.3.2.2: Biomass from micro-and macro algae industrial application (SCP)

Theme 6 "Environment including climate change:

Sub-Activity 6.1.1 – Pressures and environment and climate

- - ENV- 2009.1.1.6.3: Climate change impacts on the marine environment: research results and public perception (CSA-SA)

Sub-Activity 6.2.2 Management of marine environment

- - ENV- 2009.2.2.1.1: Options for Ecosystem-based management (LCP)
- - ENV- 2009.2.2.1.2: Towards integrated European marine research strategy and programmes (ERANETs - CSA-CA)
- - ENV- 2009.2.2.1.3: Support to "Maritime Partnership" (CSA-SA)
- - ENV- 2009.2.2.1.4: Integrated Coastal zone management (LCP- SICA Mediterranean, Black Sea)

Theme 5 "Energy:

Sub-Activity 2.9 Energy – Cross-cutting issues

- - ENERGY - 2009.2.9.1: Deep off-shore multi-purpose renewable energy conversion platforms for wind/ocean energy conversion (CP)
- - ENERGY - 2009.2.9.2: Coordinated action on off-shore renewable energy conversion platforms (CSA-CA)

Sub-Activity 3.2 – Second generation fuel from biomass

- - ENERGY - 2009.3.2.1: Algal and other sustainable non-food aquatic biomass feedstock for 2nd generation bio fuel production (CSA-CA)





Marine topics of cross-thematic nature in WP 2010 and beyond

- 1 - Climate change and the oceans***
- 2 - Impact of human activities on coastal and marine ecosystems and their management***
- 3 - Ecosystem approach to resource management and spatial planning***
- 4 - Marine biodiversity and biotechnology***
- 5 - Continental margins and deep sea***
- 6 - Operational oceanography and marine technology***
- 7 - Exploitation of marine renewable energy resources***



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New initiatives

- **Overarching marine ERANET**
- **Reinforcing marine&maritime partnership**
- **MARIFISH (ERANET+?), EAITP**
- **JOINT PROGRAMMING**
- **WG between themes (coordination marine science)**
- **Implementation EU Strategy for marine and maritime research**





Sources of Information

Cordis: <http://www.cordis.eu>

FP7: http://cordis.europa.eu/fp7/home_en.html

Expert registration: <https://cordis.europa.eu/emmf7/>

DG RTD: <http://europa.eu.int/comm/research/>

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