



European Aquaculture  
Technology and Innovation Platform

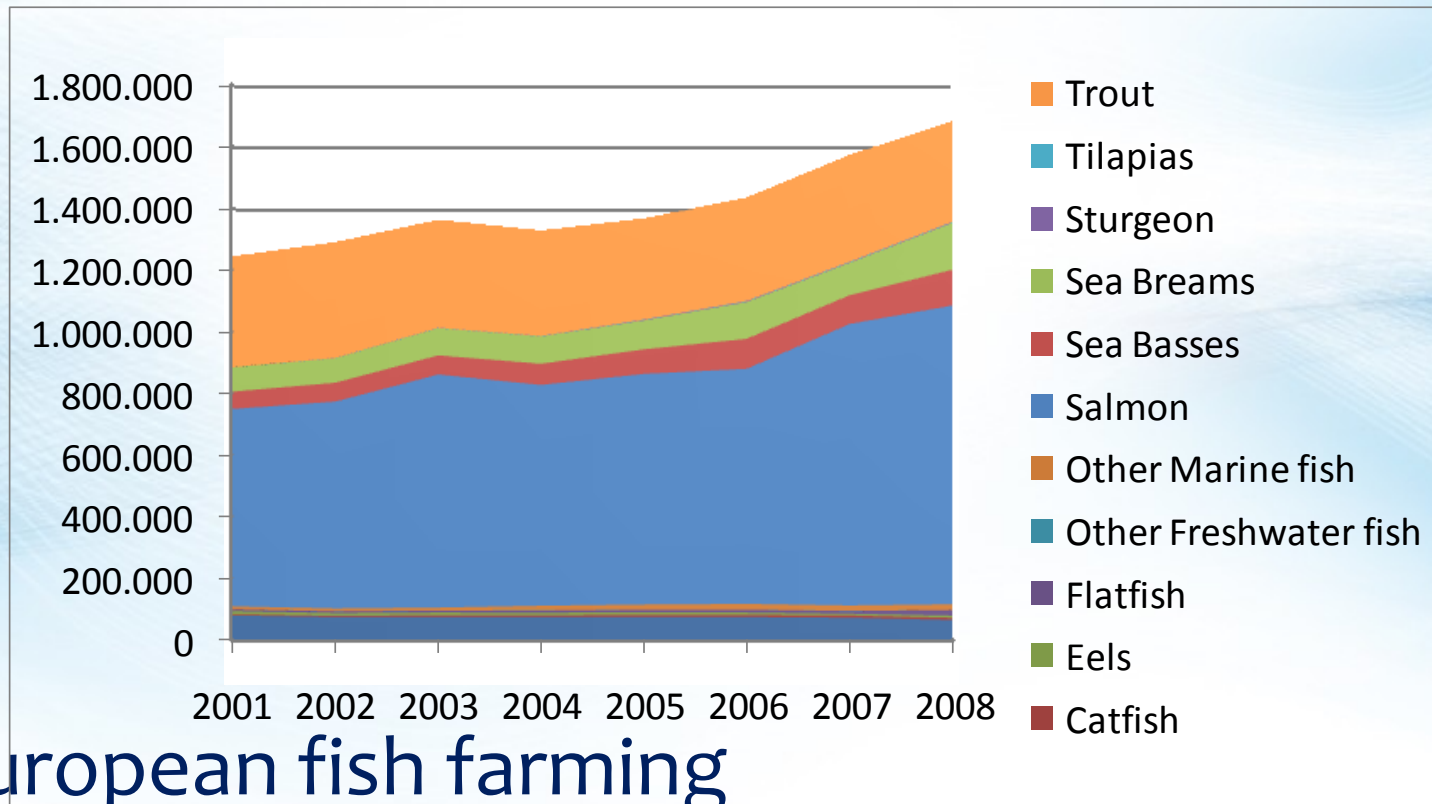
## EATiP Activities and Actions

[www.eatip.eu](http://www.eatip.eu)

1,240,000 tons

1,680,000 tons

tons

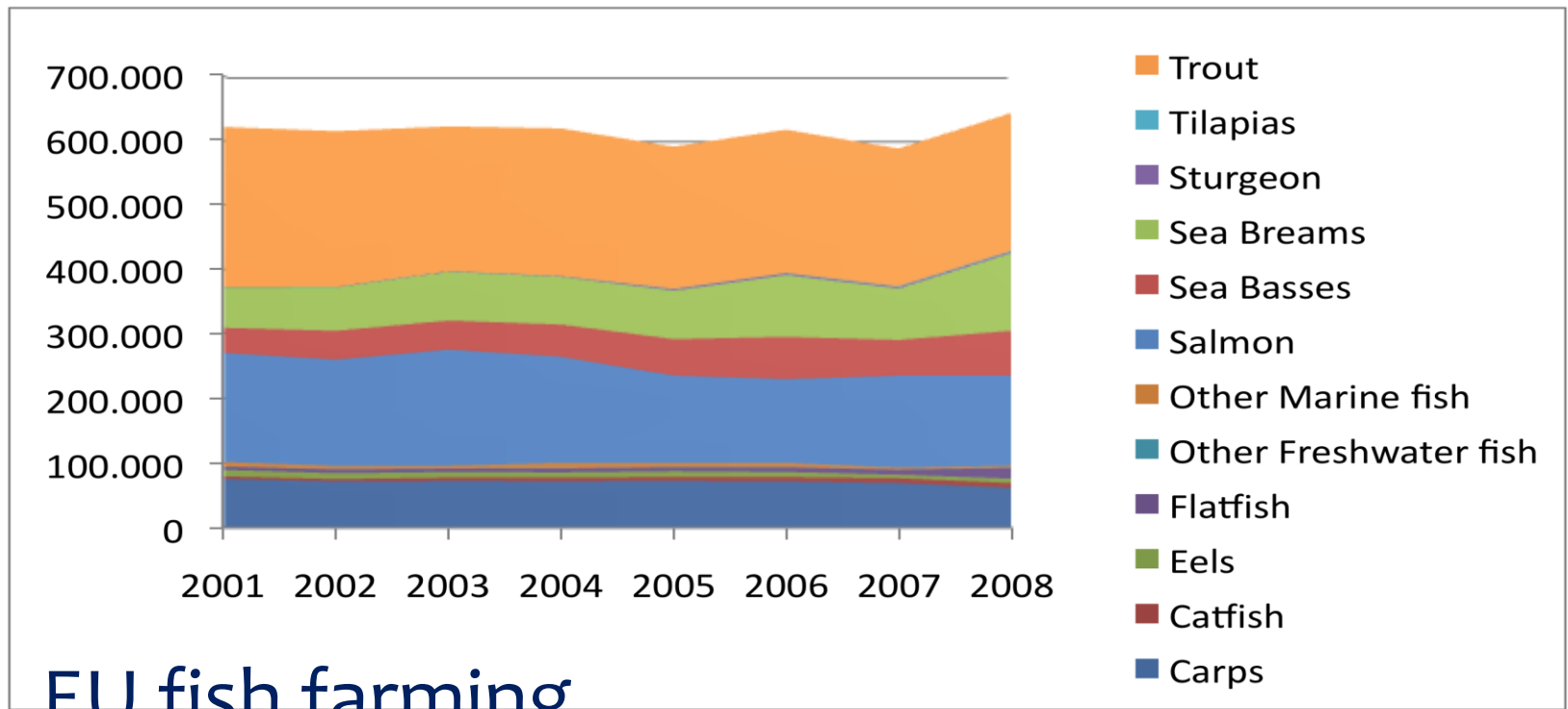


# European fish farming

620,000 tons

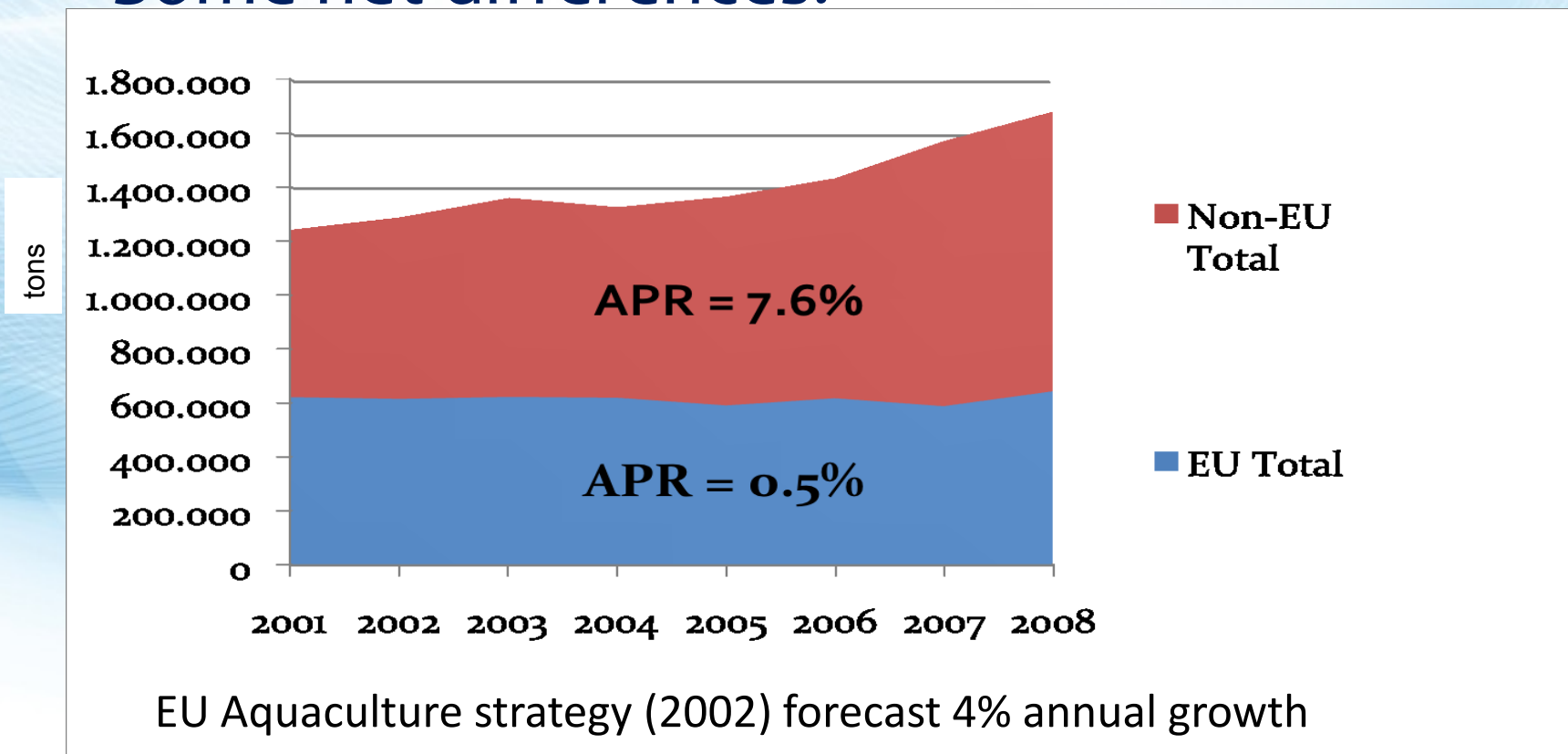
650,000 tons

tons



# EU fish farming

## Some net differences!



## Goals of Technology Platforms

- Provide a framework for stakeholders, led by industry, to define research and development priorities
- Play a key role in ensuring an adequate focus of research funding on areas with a high degree of industrial relevance
  - By covering the whole economic value chain and by mobilising public authorities at national and regional levels.
- Address technological challenges that can potentially contribute to a number of key policy objectives which are essential for Europe's future competitiveness

# Guidelines of Technology Platforms

- Must involve a broad range of stakeholders and be open and transparent structures
- “European Technology Platforms are set to play a key role in supporting European industrial competitiveness and, ultimately, in improving significantly the daily lives of the European citizen in many areas.” Commissioner Potočník (DG Research)
- In the ETP conference of May 2010, this has been redefined to include:
  - Working together on key areas of common interest that contribute, in terms of R&D activities, to address particular societal challenges.
  - Extending their activities to issues that stress innovation and the demand side

## **EATIP has 3 main objectives**

- Establish a strong relationship between aquaculture and the consumer
- Assure European aquaculture as a sustainable industry
- Consolidate the role of aquaculture in society

### **Initial tasks of EATIP**

- Identifying the innovation challenges of the collective interests of European Aquaculture
  - Uses 8 Thematic Areas for this task
- Prepare an over-arching Strategic Research & Innovation Agenda, relative to our Vision for European Aquaculture

# Strategy, Structure, Processes

Aquaculture and the Consumer

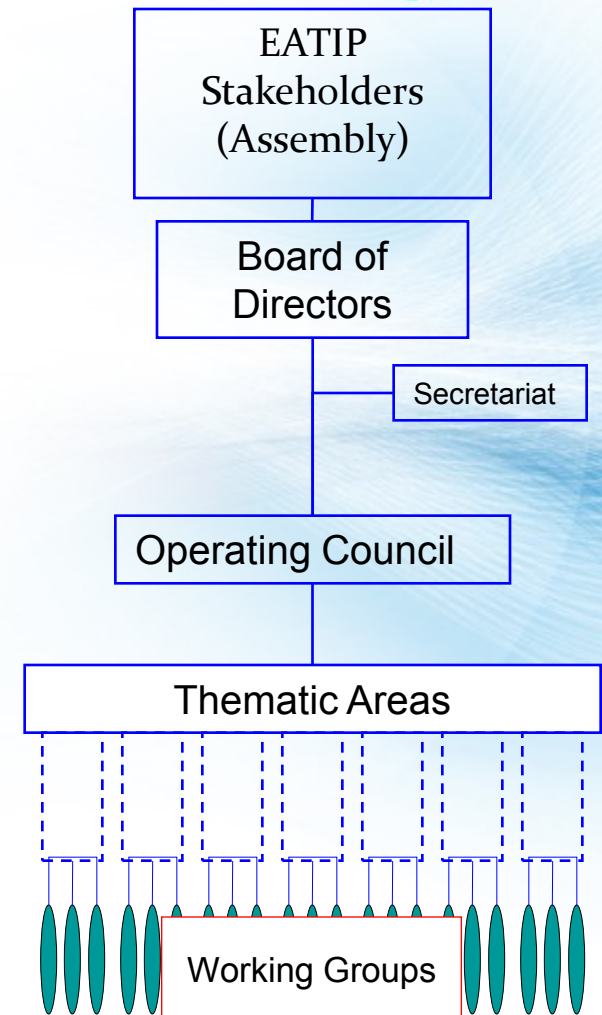
The Assurance of a Sustainable Industry

The Role of Aquaculture in Society

## Thematic Areas

- Product quality , Consumer safety & health
- Technology and systems (engineering)
- Managing the biological lifecycle
- Sustainable feed production
- Interactions with the environment
- Aquatic animal health and welfare
- Knowledge management
- Socio-Economics & Management

>200 committed people in the TAs





## Thematic Areas – by subject area

**TA1 Quality, Consumer Safety & Health**

**TA2 Systems & Technology**

**TA3 Biological Lifecycle**

**TA4 Sustainable Feeds**

**TA5 Environment**

**TA6 Knowledge Management**

**TA7 Health & Welfare**

**TA8 Socio-economics & Management**

**Horizontal topics that cross Thematic Areas**

# Industry says

## « Increase competitiveness!

- **Increase profitability** by
  - Addressing **cost constraints**
  - Reducing **price formation problems**
  - Reducing **administrative burden**
  - Improving **legislative framework**
- **Raise efficiency** by
  - Promoting **technology and innovation actions**
  - Improving **knowledge management**

**Each EATIP thematic area has had to consider these issues**



## **“Products” of each Thematic Area**

- A. Position Paper – Policy & Technology**
- B. Individual Vision Document for ‘European Aquaculture 2030’**
- C. Specific Strategic Research and Innovation Agenda to attain the vision**
- D. Plan of Action – leading to implementation**

# Thematic Area 7 Aquatic Animal Health & Welfare



7 of 8 TAs have drafts  
ready for consultation on  
EATiP website

European Aquaculture  
Technology and Innovation Platform



Thematic Area 7: Aquatic Animal Health & Welfare

1	<b>TABLE OF CONTENTS</b>	
2		
3	<b>TABLE OF CONTENTS</b> .....	2
4	<b>LIST OF THE MEMBERS OF THE CORE GROUP</b> .....	4
5	<b>LIST OF THE MEMBERS OF THE WORKING GROUPS</b> .....	4
6	<b>THEMATIC AREA VISION</b> .....	5
7	<b>I. Vision Statement</b> .....	5
8	<b>2. Executive Summary</b> .....	5
9	2.1. Major challenges.....	6
10	2.2. Tactical goals.....	7
11	<b>KEY GOALS AND SUB-GOALS</b> .....	8
12	<b>STRATEGIC RESEARCH AND INNOVATION AGENDA (SRIA)</b> .....	9
13	<b>1. GOAL 1: Improve fish health by increasing understanding of host</b>	
14	<b>pathogen interactions and effective vaccines and immunomodulators</b> .....	9
15	I. Goal Title.....	9
16	II. Goal Description.....	9
17	III. Impact on TA Vision/Overall Vision.....	10
18	IV. Sustainability Assessment.....	10
19	V. Risk/ Opportunity Assessment.....	10
20	<b>2. GOAL 2: Application of epidemiological principles to minimise the threat</b>	
21	<b>from existing, emerging and exotic diseases</b> .....	12
22	I. Goal Title.....	12
23	II. Goal Description.....	
24	III. Impact on TA Vision/Overall Vision.....	
25	IV. Sustainability Assessment.....	
26	V. Risk/ Opportunity Assessment.....	
27	<b>3. GOAL 3: Use and develop best practice to optimize efficacy of t</b>	
28	<b>and prevention methods</b> .....	
29	I. Goal Title.....	
30	II. Goal Description.....	
31	III. Impact on TA Vision/Overall Vision.....	
32	IV. Sustainability Assessment.....	



## KEY GOALS AND SUB-GOALS

---

### **GOAL 1: Improve fish health by increasing the understanding of host pathogen interactions and to have access to effective vaccines and immunomodulators**

- S.1.1 Improving understanding of host pathogen interactions
- S.1.2 Development of new vaccines & improvement of existing vaccines
- S.1.3 Immunomodulators

### **GOAL 2: Application of epidemiological principles to minimise the threat of existing, emerging and exotic diseases**

- S.2.1 Improve understanding of transmission mechanisms, of pathogens at all levels from farm, through country to Europe wide
- S.2.2 Understand the industry structure (network) and its vulnerabilities to endemic and epidemic diseases
- S.2.3 Development of framework (model) for evaluating the relative importance of health and welfare threats, including bio-economic modelling and risk assessment
- S.2.4 Improve strategic data availability through standardisation
- S.2.5 Turn understanding into strategies through industry, government, academic participation in research and consultation

### **GOAL 3: Use and develop best practise to optimise efficacy of treatments and prevention methods**

- S.3.1 Minimise treatment when possible by using best practice
- S.3.2 Alternate remedies
- S.3.3 Improved licensing system
- S.3.4 Improve application of management measures with emphasis on alternative control measures

### **GOAL 4: Measure welfare and understand its consequences if compromised in order to incorporate welfare as core component of production management**

- S.4.1 Improve existing welfare indices
- S.4.2 Understand and quantify short and long term consequences of compromised welfare, such as reduced growth, reduced feed efficiency, health, treatment effects, product quality etc
- S.4.3 Develop risk and cost benefit analysis systems as tools to incorporate welfare as a major factor in production and legislation decisions



Consultation  
open at  
[www.eatip.eu](http://www.eatip.eu)



## Next steps: Consultation Workshops

- 15-16 June: **Freshwater aquaculture** – Warsaw
- September: **Coldwater Marine aquaculture** – Oslo
- November: **Mediterranean aquaculture** – Barcelona
- February 2012: **Shellfish aquaculture** – Bordeaux
- Plus special events
  - **Marine Hatcheries** – Faro (September 2011)
  - **General Consultation** – ‘Aquaculture Europe’ – Rhodes (October 2011)

## Next steps: Consultation

- Consultation on all documents can be made through the website
- Objectives:
  - Is there anything missing?
  - Prioritisation
  - Examine financing possibilities for action plans
  - Promote agreed priorities

# Achievements & Actions

- Each Thematic Area has provided & continues to develop its ‘products’
  - Open to consultation by EATIP members from March 2011
- Overarching **EATIP Vision Document & SRIA** to be developed from Thematic Area documents
  - Short & concise presentation (printed)
  - Full documents on EATiP website
  - Accompanied by further support materials



# Achievements & Actions

- EATIP will thus provide
  - Clear views on a vision for the different components of European aquaculture
  - Proposed actions and work needed to achieve this vision
  - A means to communicate to European stakeholders
  - A structure to assist development and innovation

# Achievements & Actions

- EATIP TA members invited to each WG of DGRTD prospection (e.g. Health, Feeds, Socio-Economics)
  - Integrated into ERA-Net debates
  - Integrated into debates and promotion of KBBE
- Consulted on research priorities
  - Regular presentation of progress within ACFA
  - Cooperation with SCAR & Eureka
    - Examining potential for a EUREKA aquaculture cluster
  - Active within BECOTEPS (White Paper on Bioeconomy) – cooperation with other Bioeconomy ETPs
- **Increasing contacts with investors** (mainly financiers)
- **Broader perspectives** (Societal challenges) being introduced

# Conclusions

- Concern raised as to how real innovation can be generated & put into place
  - **Networks of researchers?**
    - **Problematic links to industry**
  - **Mirror Platforms?**
    - **Needed to create and consolidate local/national efforts**
  - **Competitiveness clusters?**
    - **Could provide a solid base for demonstration and support activities**
- **New networks are needed – a clear EATIP position**
  - **Integrate multi-stakeholder interests – with clear and attainable targets**
  - **Promote measurable responsibilities – towards the industry**

# Conclusions

- Development has been slow but sure
  - Has allowed a clear focus to develop
    - Through a stable structure
    - With defined purpose and ‘products’
  - Establishing new cross-sectoral contacts (other ETPs)
- Confidence (multi-stakeholder contributions) in EATIP’s products gives credibility and influence
  - **Higher chance of getting priority RTD funded**
- Improved likelihood of real innovation for the industry within 5-10 years
- EATIP will develop further and broaden its actions so as to promote the research needed and genuine innovation on-site



European Aquaculture  
Technology and Innovation Platform

[www.eatip.eu](http://www.eatip.eu)