



# Perspectives of Swedish Aquaculture

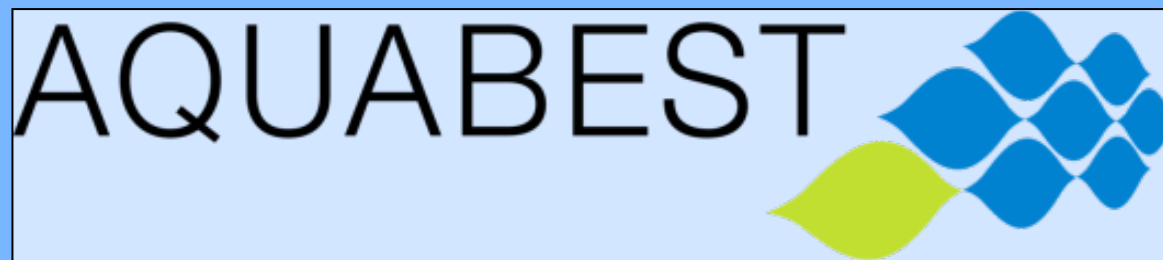
**Alfred Jokumsen  
Technical University  
of Denmark – DTU  
Aqua**

# Perspectives of Swedish Aquaculture

- 1. Introduction**
- 2. Current conditions**
- 3. SWOT analysis**
- 4. Conclusion**

# **MISTRA WG on Swedish aquaculture research 2012 -13**

- ▶ **Axel Wenblad – Chairman - former Dir. Gen.  
Fiskeriverket, Sweden**
- ▶ **Ole Torrissen - IMR, Norway**
- ▶ **Unto Eskelinen - FGFRI, Finland**
- ▶ **Alfred Jokumsen - DTU Aqua, Denmark**

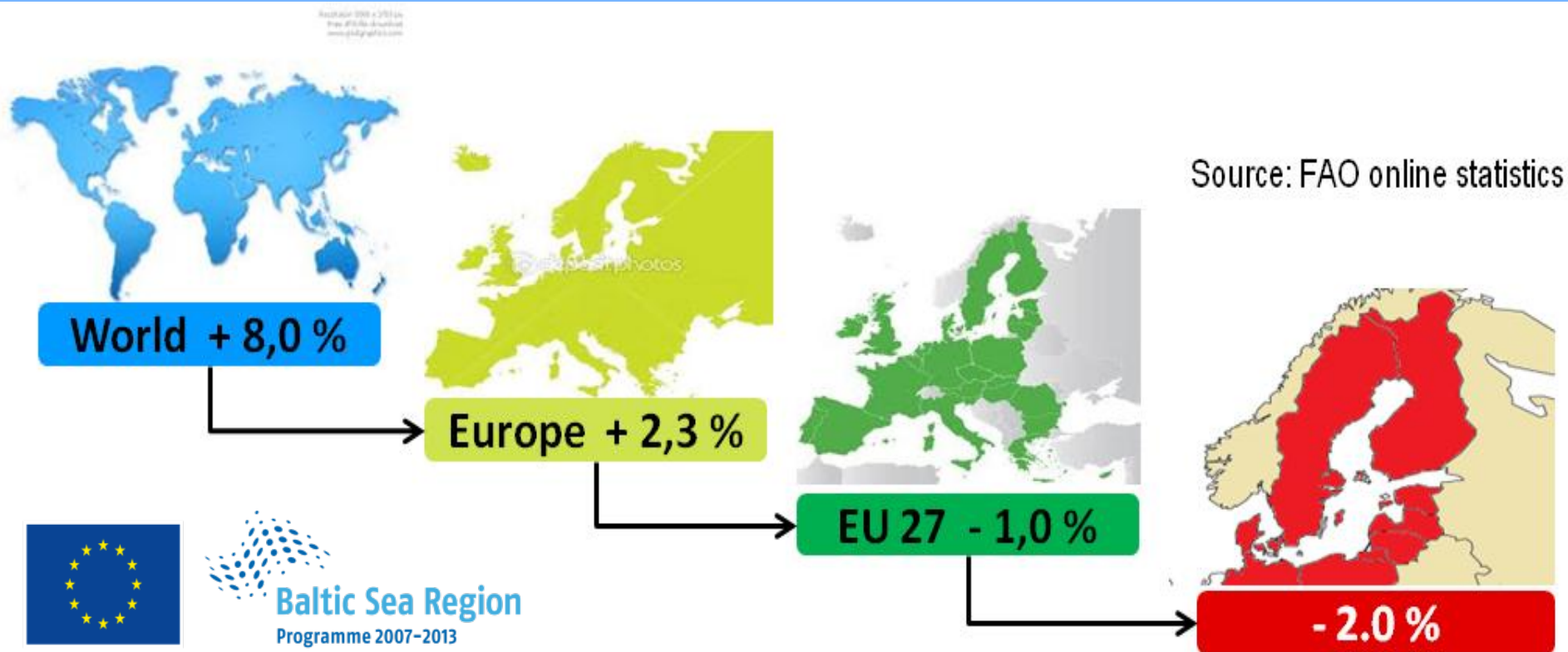


# Innovative practices and technologies for developing sustainable aquaculture in the Baltic Sea Region



Part-financed by the European Union (European Regional Development Fund and European Neighbourhood and Partnership Instrument)

# Annual growth rate of aquaculture 2000-2009 (excl. plants)

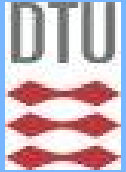


(J. Vielma, 2013)

Part-financed by the European Union (European Regional Development Fund and European Neighbourhood and Partnership Instrument)



# Bottlenecks to develop sustainable aquaculture in the Baltic Sea Region



Licensing systems are not coherent



Aquaculture spatial planning is immature



Aquaculture imports nutrients from oceans thus contributing to the eutrofication of the Baltic Sea



New recirculation farming technologies have not been transferred throughout the region



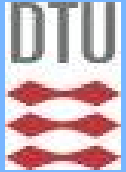
(J. Vielma, 2013)

# Fastest growing food producing sector

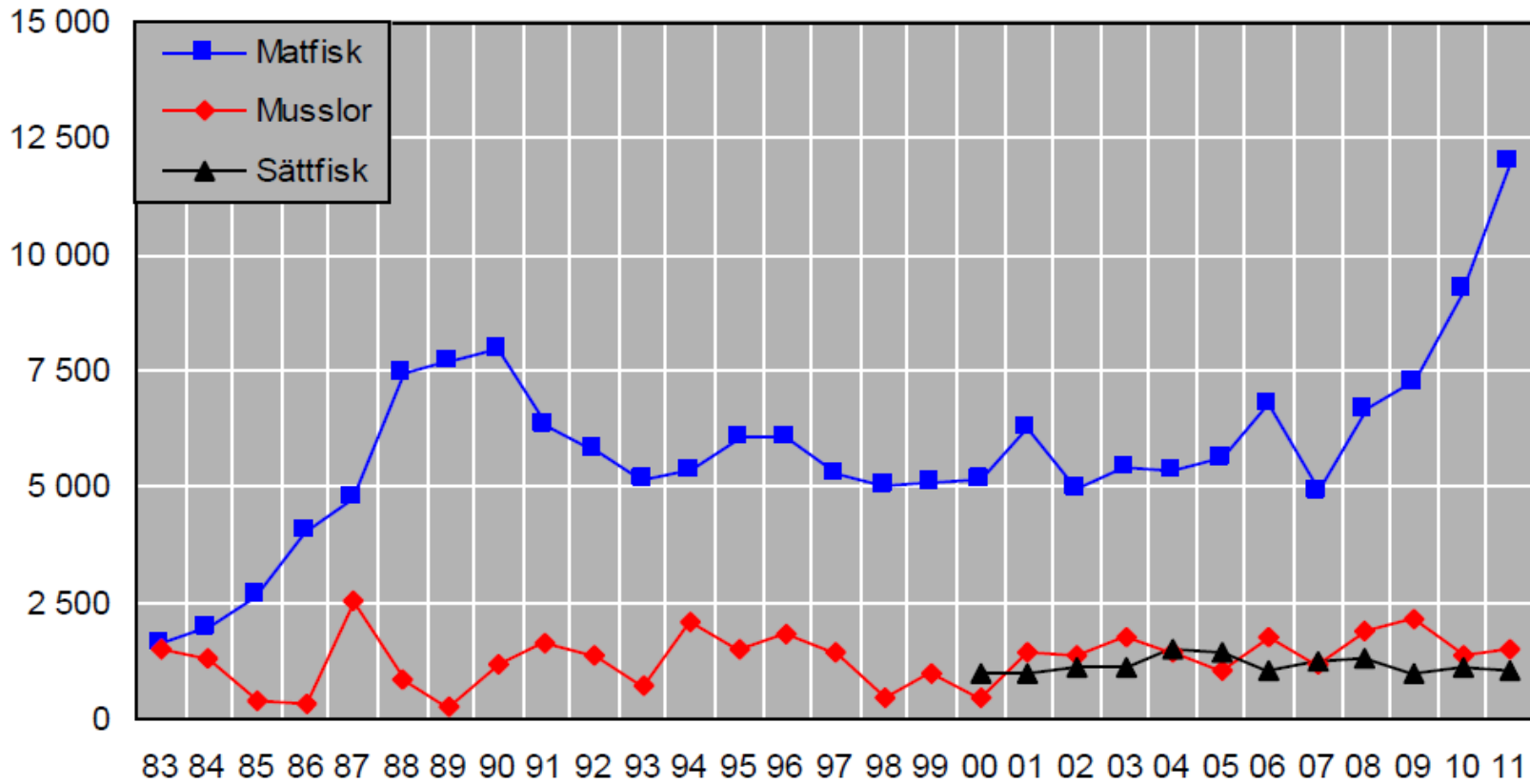


- 5 - 8 % p.a.
- 80 mio. T ~ 50 % aquatic human food

# Swedish aquaculture production



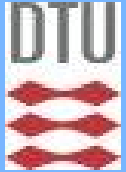
Hel färskvikt, ton



Source: Jordbruksverket, 2012



# Swedish aquaculture ***STRENGTHS***



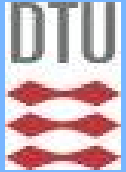
- **National strategy for aquaculture**
- **National - and regional competence centres for aquaculture**
- **National Aquaculture Council**
- **Huge fresh water resources**
- **High veterinary fish health status**
- **High level research within relevant aquaculture topics**

# Swedish aquaculture *OPPERTUNITIES*



- **Platform: National Council and competence centres for aquaculture**
- **Environmental efficient production – low carbon foot print – Green growth - low ecosystem and climate impact**
- **Innovative integrated production systems – energy and nutrient efficient – IMTA/aquaponics**
- **Hydro power dams**

# Swedish aquaculture *OPPERTUNITIES*



- **Diversification - Niche products -- labelling/certification - processing - value added products - competitiveness**
- **Create jobs in rural areas, improve infrastructure, economic and social conditions**

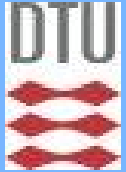
# Swedish aquaculture

## ***WEAKNESSES***



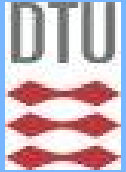
- **Lack of integration of the stakeholders within the aquaculture sector –**
  - **Cross sectional need of knowledge, education and training (farmers, staff along the whole chain incl. authorities)**
- **Lack of investors and financing (bad image and low knowledge about aquaculture)**

# Swedish aquaculture *THREATS*



- **Challenging environmental legislations**
- **Communication between stakeholdes (producers, local authorities/municipality, local people) – common understanding of the activity**
- **Spatial planning – farming sites**
- **Spreading of diseases (Biosecurity)**
- **Competition from Norway and Finland**

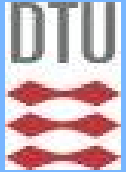
# CONCLUSION



**Integration of the aquaculture sector with main stakeholders:**

- Political frameworks**
- Regional administrations**
- Aquaculture producers**
- Aquaculture research groups**
- NGO's – local people - consumers**

# CONCLUSION



**Swedish aquaculture has great potentials in terms of**

- **Environmental efficient food production**
- **Diversified production**
- **Create jobs**
- **Socio-economic development in rural areas**

**Niche and diversification - Sweden  
to make a difference**

A photograph of a sunset over a field. The sky is filled with soft, wispy clouds in shades of blue, purple, and pink, with a bright orange and yellow glow near the horizon. The foreground is a dark, silhouetted field of tall grasses. The text "THANKS FOR YOUR ATTENTION" is overlaid in white, bold, sans-serif font in the lower center of the image.

THANKS FOR YOUR ATTENTION