

Innovative approaches for Blue Growth in Finnish aquaculture

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Introduction

Content

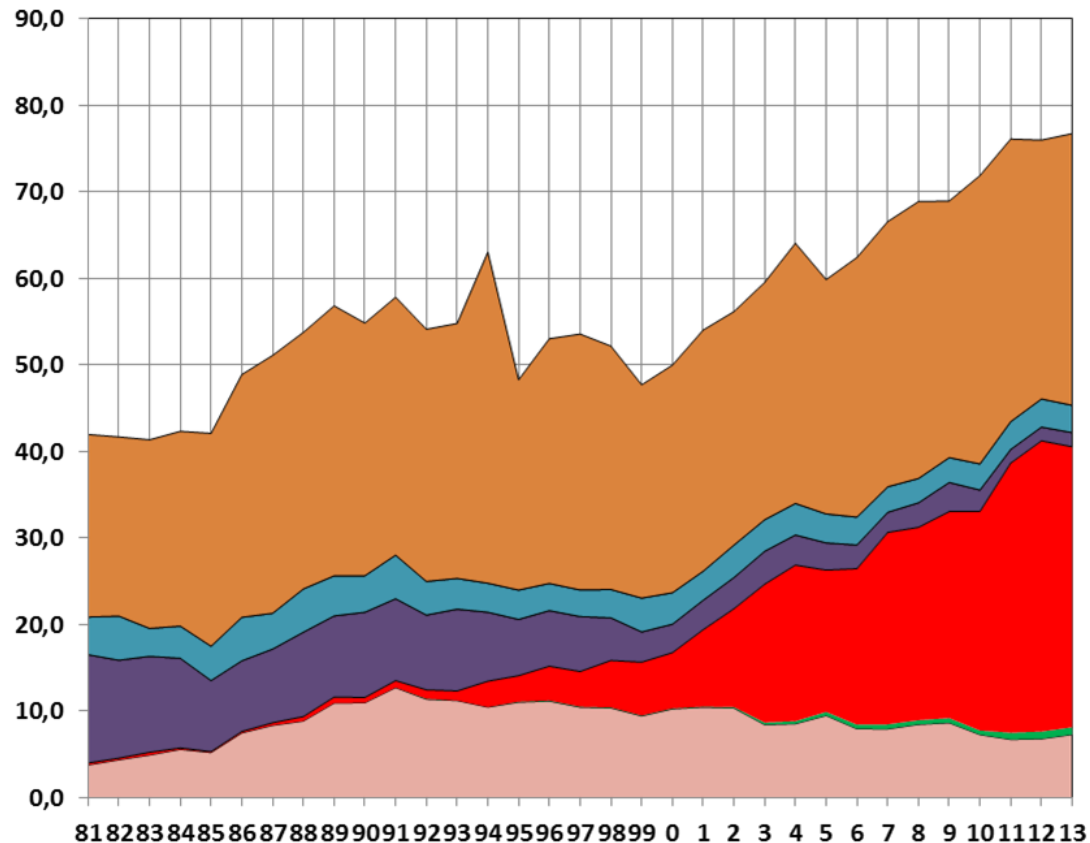
- Finnish salmon markets
- Development of Finnish aquaculture production
- Possibilities of Blue Growth in the sector





Development of Finnish fish market

Million kg



In Fillet weight

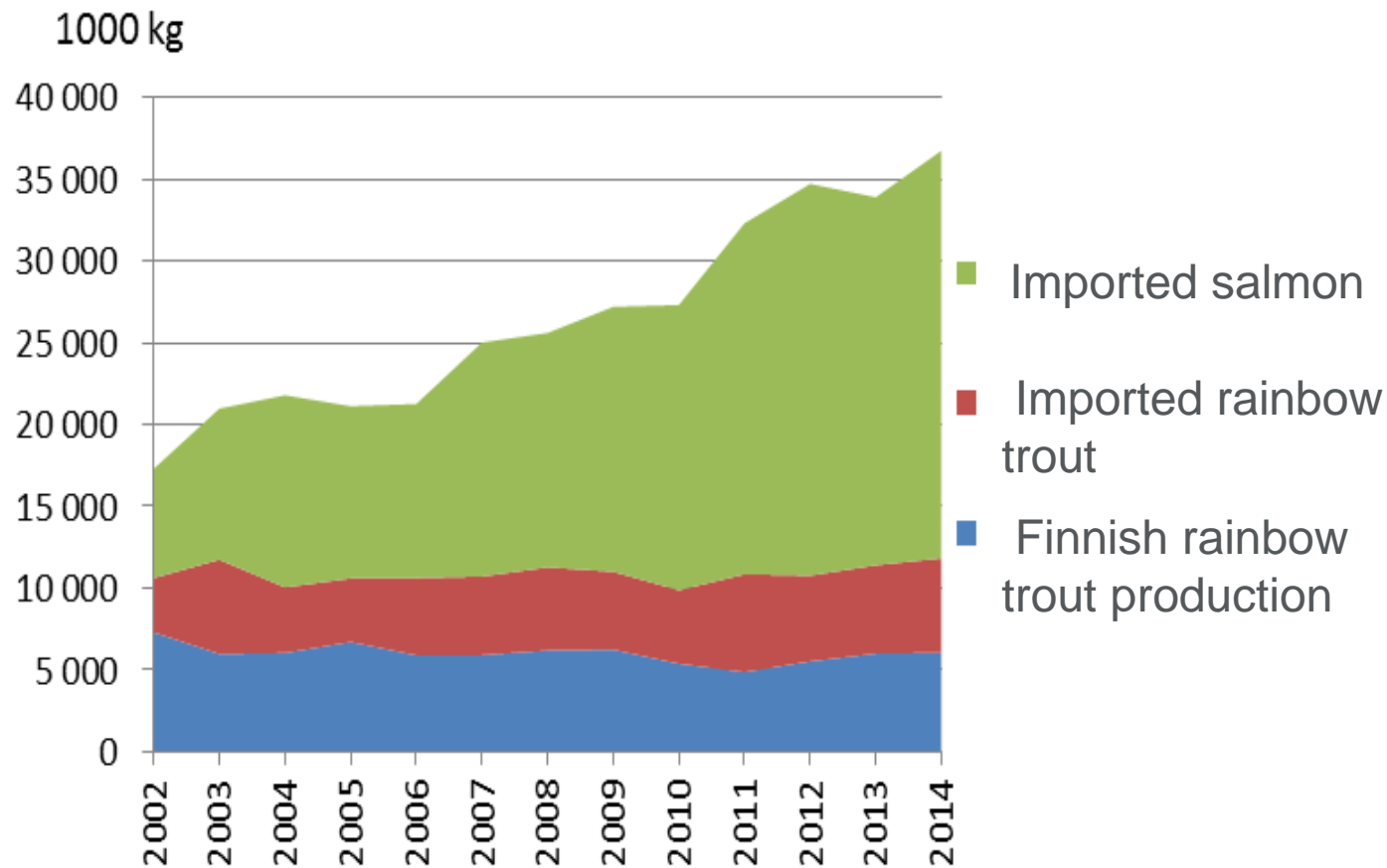
- Other imported
- Other domestic wild
- Herring
- Imported salmon
- Other domestic
- aquaculture

Domestic rainbow trout



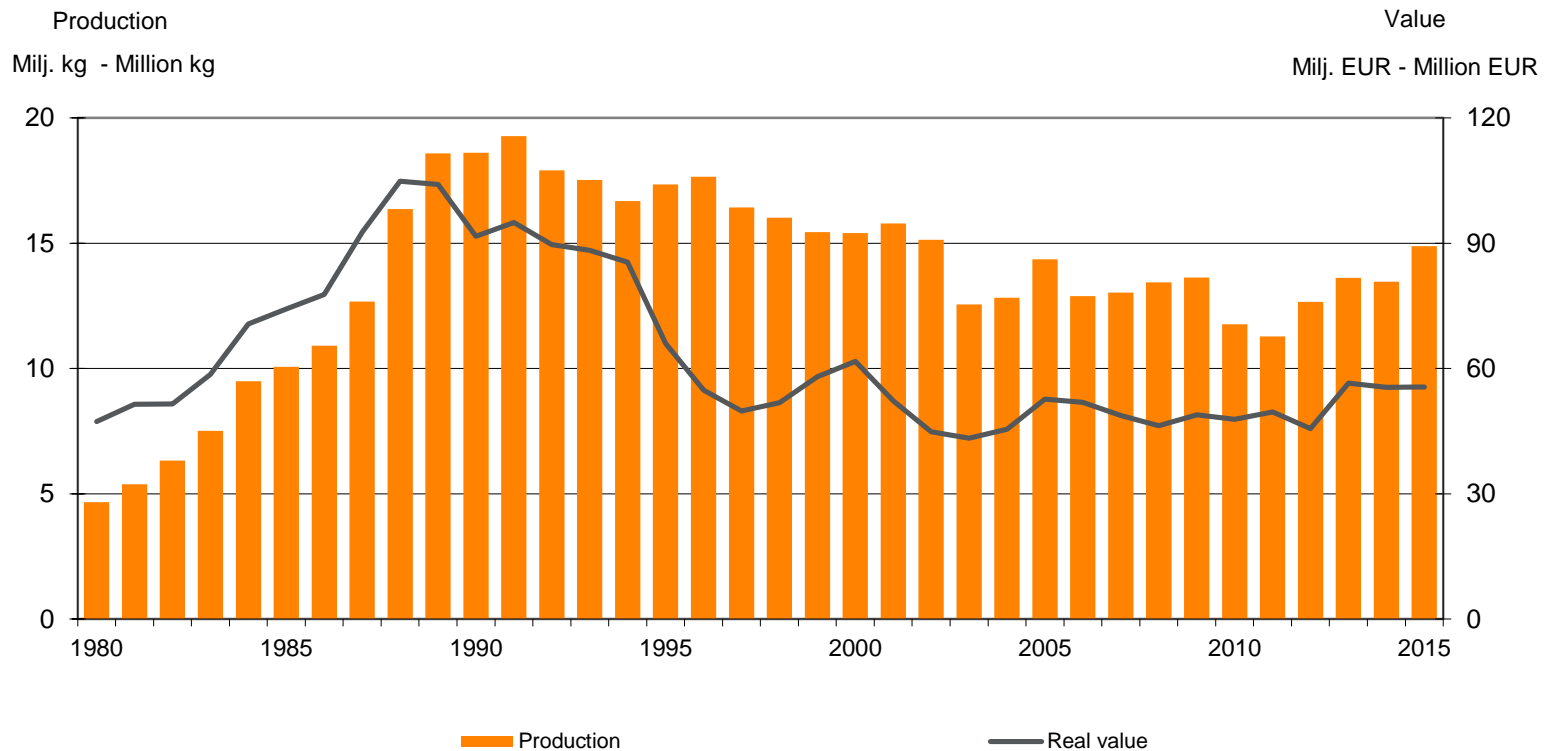


Salmon market in Finland





Finnish aquaculture production 1980-2015



Stagnation of Finnish aquaculture production



- Environmental policy:
 - Environmental state of the Baltic Sea
 - Eutrophication due to nutrient loadings is a major problem in the Baltic Sea
 - Stringent licencing policy for fish farming:
 - Limited production licenses
 - Small farm size
- Low competitiveness of Finnish fish farms
- Trade liberalisation led to a drop in production



Finnish multiannual national plan for the development of sustainable aquaculture

- The objective of the national aquaculture plan is to create preconditions for the sector's sustainable growth.
- Increase production volume to 20 million kg with value exceeding €100 million.
- The growth of aquaculture must be compatible with water quality requirements and other environmental objectives.
- Increasing aquaculture production without compromising the environmental status of marine environment.



Opportunities for Blue Growth in aquaculture

- Increasing production licenses and production units without increasing environmental impact requires revision of licensing policy to support eco-efficient technologies and practices.
- Value added products and labelling.



Opportunities for Blue Growth in aquaculture

Innovative approaches to increase production licenses and production unit size:

- Marine strategic planning: apply spatial planning to allocate production to locations with reduced environmental impact
 - Offshore aquaculture
- Baltic Sea feed: closing the nutrient loop by recirculation of nutrients
- Recirculating aquaculture systems



Future work

- assess the impact of new alternative rainbow trout production systems on supply, competitiveness, economic growth, and employment
- analyses the economic competitiveness and value added in the Finnish salmon value chain



Thank you!

