

Virtanen Jarno, Kankainen Markus, Setälä Jari, Saarni Kaija and Vielma Jouni









Introduction

Content

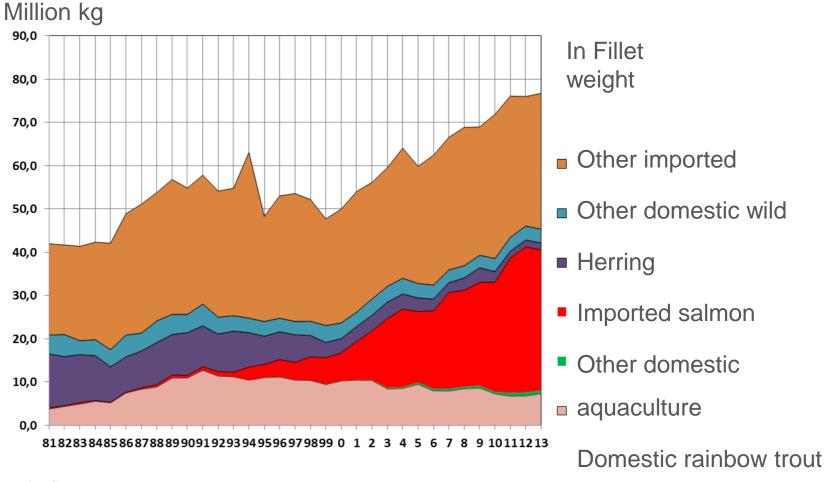
- Finnish salmon markets
- Development of Finnish aquaculture production
- Possibilities of Blue Growth in the sector





Development of Finnish fish market



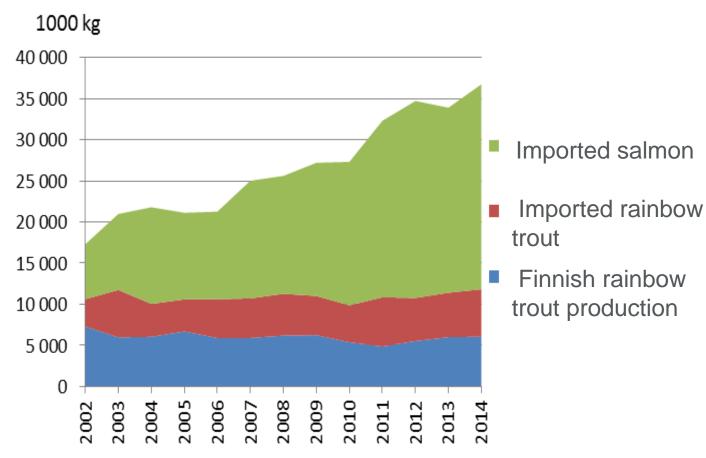






Salmon market in Finland



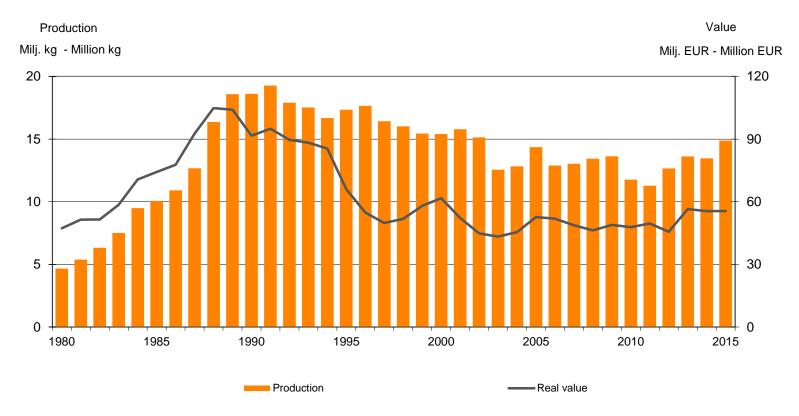






Finnish aquaculture production 1980-2015









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.





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.









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 competitiveness and value added in the Finnish salmon value chain







Thank you!



