

# ICES and aquaculture what do we do?

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Chair of Aquaculture Steering Group



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# ICES – Established 1902

## 20 member countries

Belgium, Canada, Denmark

Estonia, Finland, France

Germany, Iceland, Ireland

Latvia, Lithuania

The Netherlands, Norway

Poland, Portugal

Russian Federation, Spain

Sweden, United Kingdom

United States of America



*ICES Council meeting in 1904.*



# ICES organizational structure



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# Sustainable Aquaculture

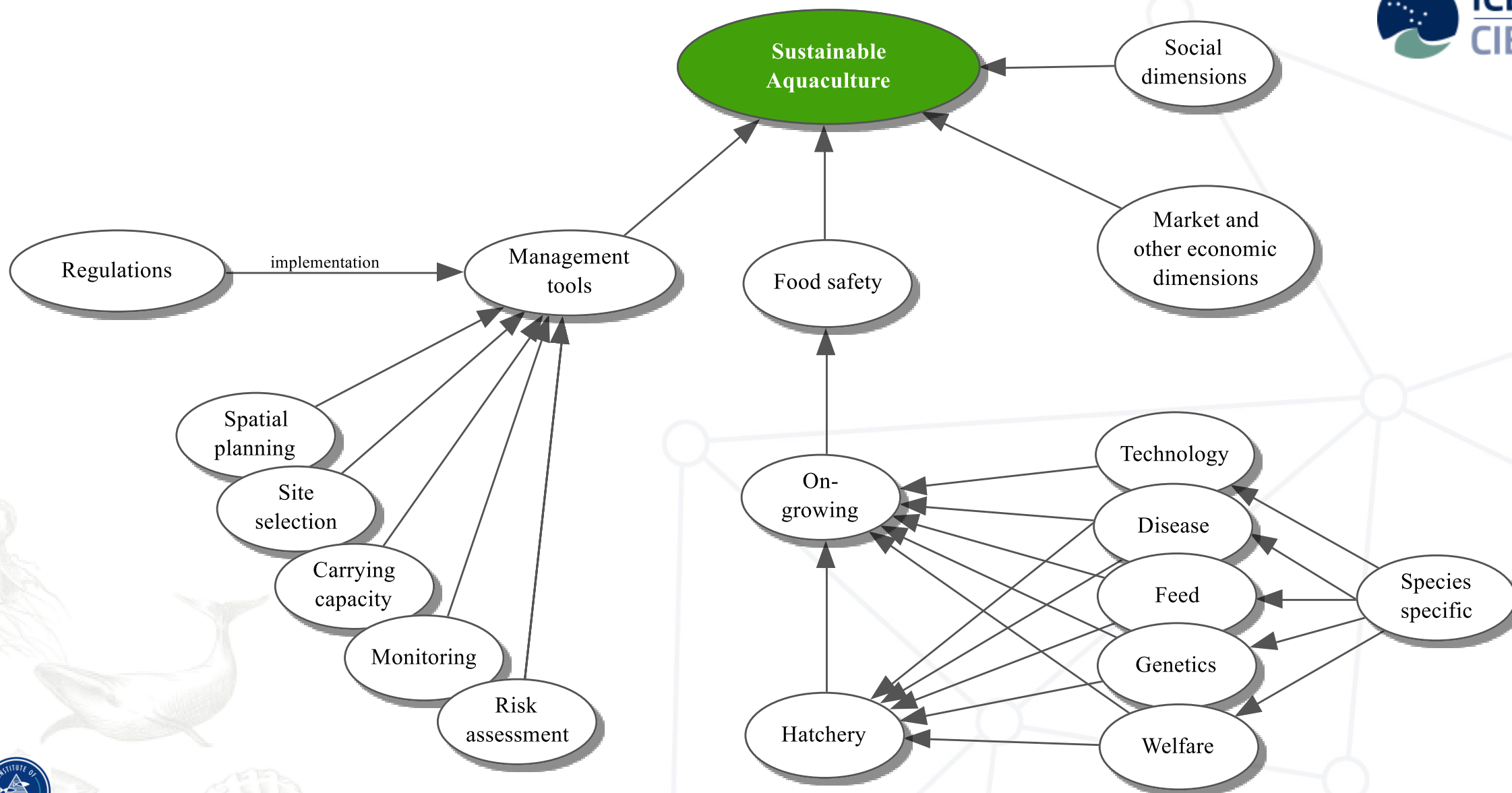
- Contribute to local community development
- Generate economic profit
- Little impact on the environment



*Mozambique 2017; produced tilapia sold in the streets/local market in a village*



*Mussel farming Norway*



# where can **SCIENCE** contribute



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# ICES Aquaculture Steering Group – 6 WGs'

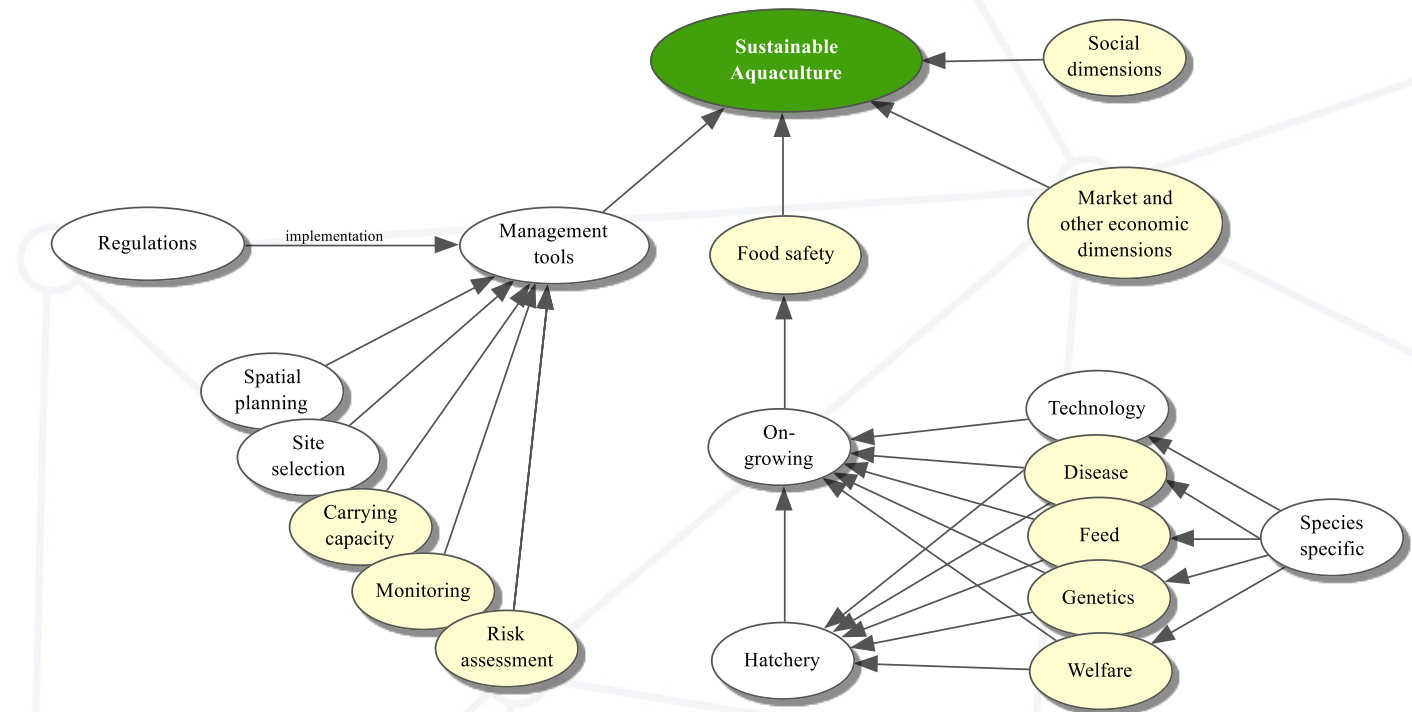


- **Pathology and Diseases of Marine Organisms (WGPDMO);** Richard Paley UK
- **Application of Genetics in Fish and Aquaculture (WGAGFA);** Naiara Rodriguez-Ezpeleta
- **Social and Economic Dimension in Aquaculture (WGSEDA);** Gesche Krause & Ramon Filgueira
- **Risk Assessment of Environmental Interaction of Aquaculture (WGREIA);** Ellen S. Grefsrud
- **Ecological Carrying Capacity (WGECCA);** Carrie Byron & Dror Angel
- **Open Ocean Aquaculture (WGOOA);** Bela H. Buck & Tyler Sclodnick



# New WG's suggested under ASG

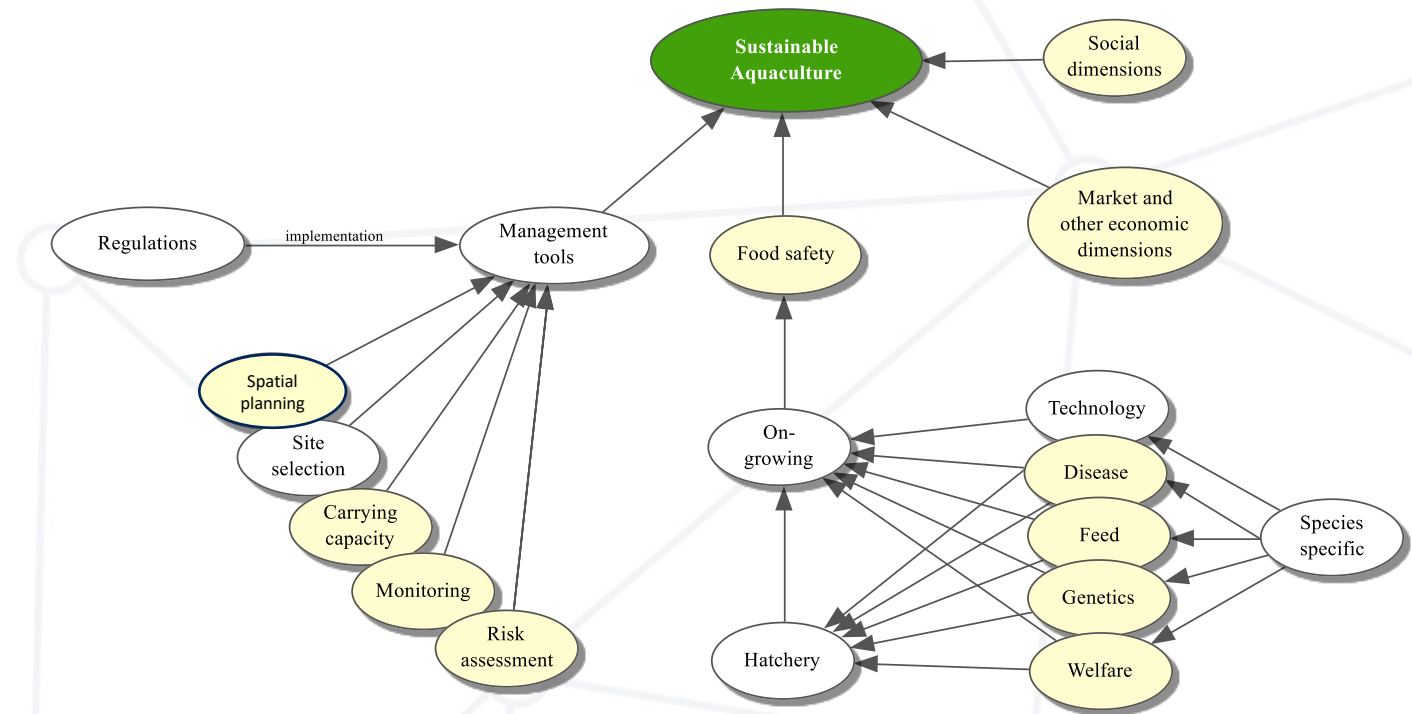
- Animal welfare
- Sustainable feed/circulation economy
- Food Safety & nutrition





# At least one other WG is important

- **Marine planning and coastal zone management (WGMPCZM);** Andrea Morf, Caitriona Nic Aonghusa, Talya ten Brink



# Each WG

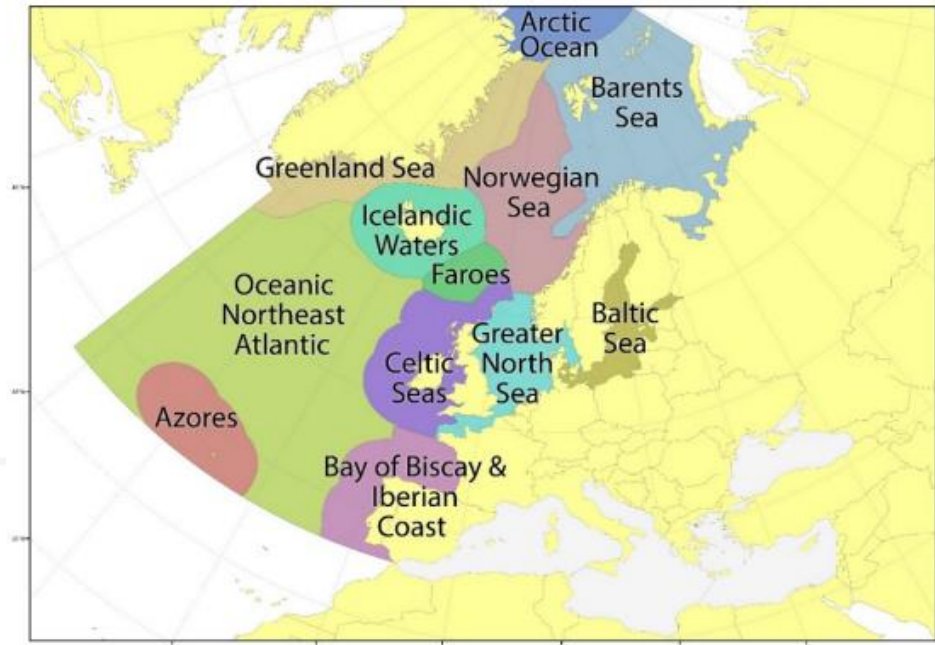


- Has a number of participants (20-40) from several countries, also outside ICES
  - Meet on a yearly basis
  - Terms of references every 3 years
  - Produce scientific papers as well as reports
  - **WGECCA**; focuses on ways to consider ecological carrying capacity in evaluating aquaculture opportunities and constraints
- “The magnitude of aquaculture production that can be supported without leading to unacceptable changes in ecological process, species, populations or communities in the environment”



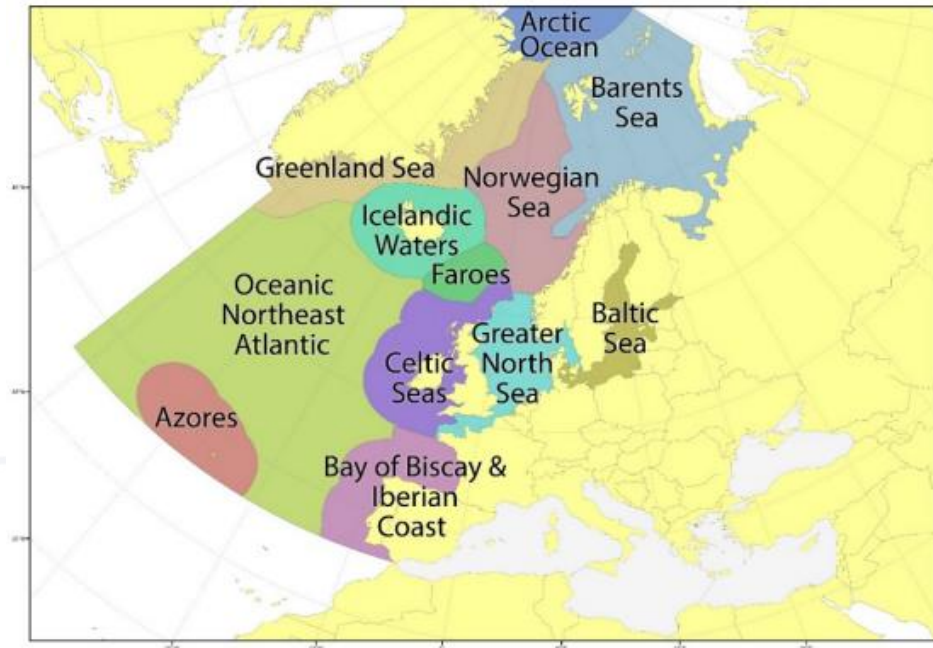
# ICES Aquaculture Overviews

- Advisory product supporting Ecosystem Based Management
- Based on ecoregions, similar to the Fisheries and Ecosystem product



# Objectives of Aquaculture Overviews

1. Summarize regional and temporal information on aquaculture activities, practices, and production of the cultured taxa
2. Describe the relevant policy and legal foundation as well as management frameworks
3. Consider the environmental and socio-economic interactions of aquaculture activities and practices
4. Provide insights on the interaction of environmental, economic, and social drivers
5. Consider future projections and emerging threats and opportunities



# Aquaculture Overview - Content



1. Executive summary
2. Introduction; description of ecoregion ...
3. Description and location of marine aquaculture activities and practices
4. Production over time
5. Policy and legal foundation
6. Management frameworks
7. Ecosystem/environmental interactions
8. Social and economic context
9. Interaction of environmental, economics and social drivers
10. Future projections, and emerging threats and opportunities



# ICES Aquaculture Overviews

- 2021; Norwegian Sea; Terje Svåsand & Henn Ojavee
- 2022; Norwegian Sea - updated
- 2022; Celtic Sea; Francis O'Beirn & Henn Ojavee
- **2023; Faroe Islands; Gunnvør á Nordi & Henn Ojavee**
- **2024; Bay of Biscay & Iberian Coast; Myriam Callier & Francis O'Beirn**



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# Science to advice/policy

- Aquaculture does not share physical areas like fish stocks
- Are there common grounds among the countries?
- A theme for the upcoming ICES Annual Conference, Bilbao Spain

**Would like to invite one of you to give your viewpoint (5-10 minutes)**

