



Trends and challenges

**Towards a sustainable aquaculture in the
Mediterranean seminar
4 November 2020**

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Outline

A growing demand for fish product



Production in the Mediterranean



Challenges for a sustainable Aquaculture



A growing demand for fish product...

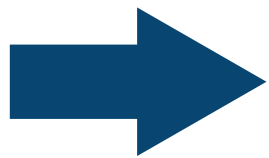


- From 1961 to 2017, the average annual growth rate for global fish consumption was **3.1%**.
- In the same time, the population grew at a annual rate of **1.6%**.
- Per capita consumption grew from **9.0 kg in 1961** to **20.3 kg in 2017**, or a growth rate of **1.5% a year**.

...which can't be met by capture alone



- About **78%** of Mediterranean and Black Sea stocks are assessed as being fished at **unsustainable levels** in 2018.
 - Though it has decreased from **88%** in 2014

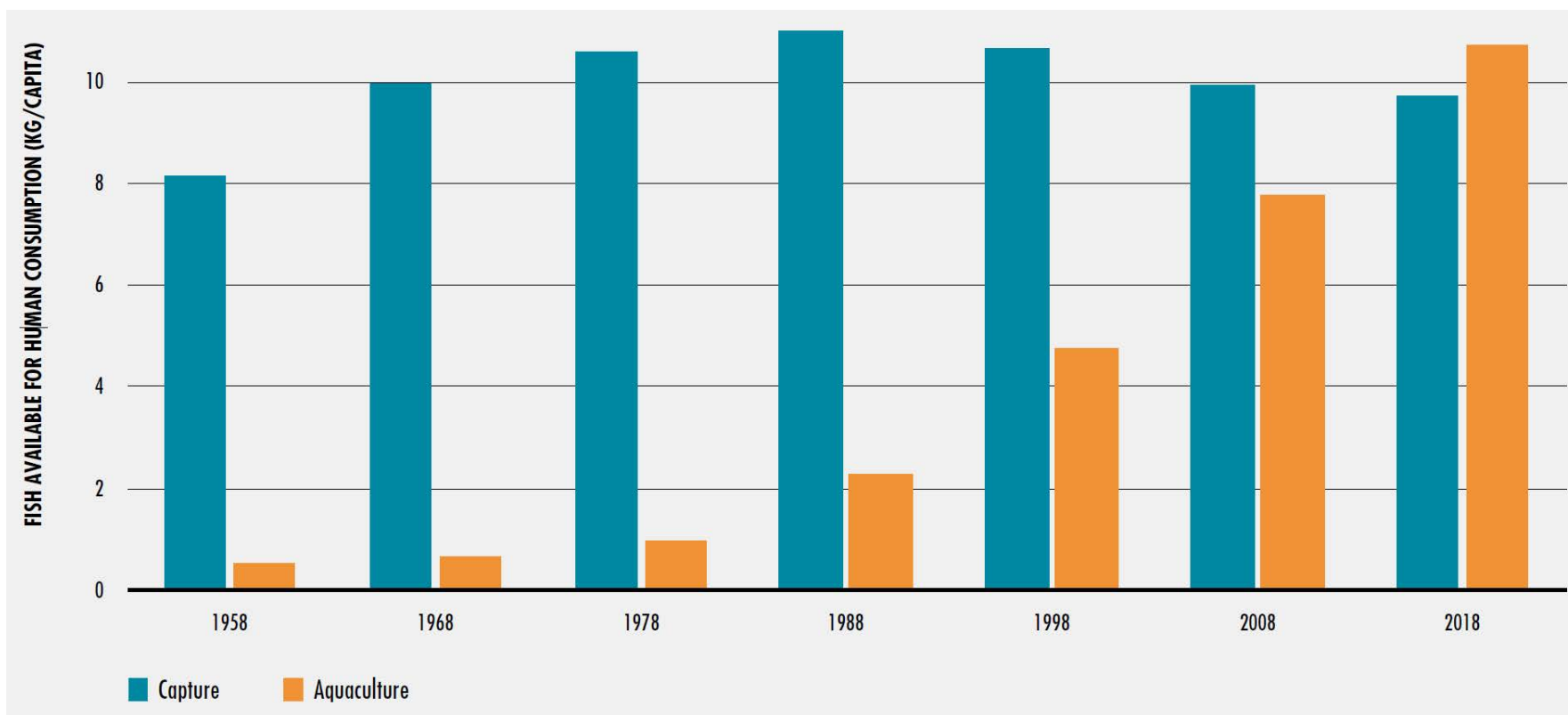


Need for a sustainable aquaculture

A demand met by a rising aquaculture



RELATIVE CONTRIBUTION OF AQUACULTURE AND CAPTURE FISHERIES TO FISH AVAILABLE FOR HUMAN CONSUMPTION

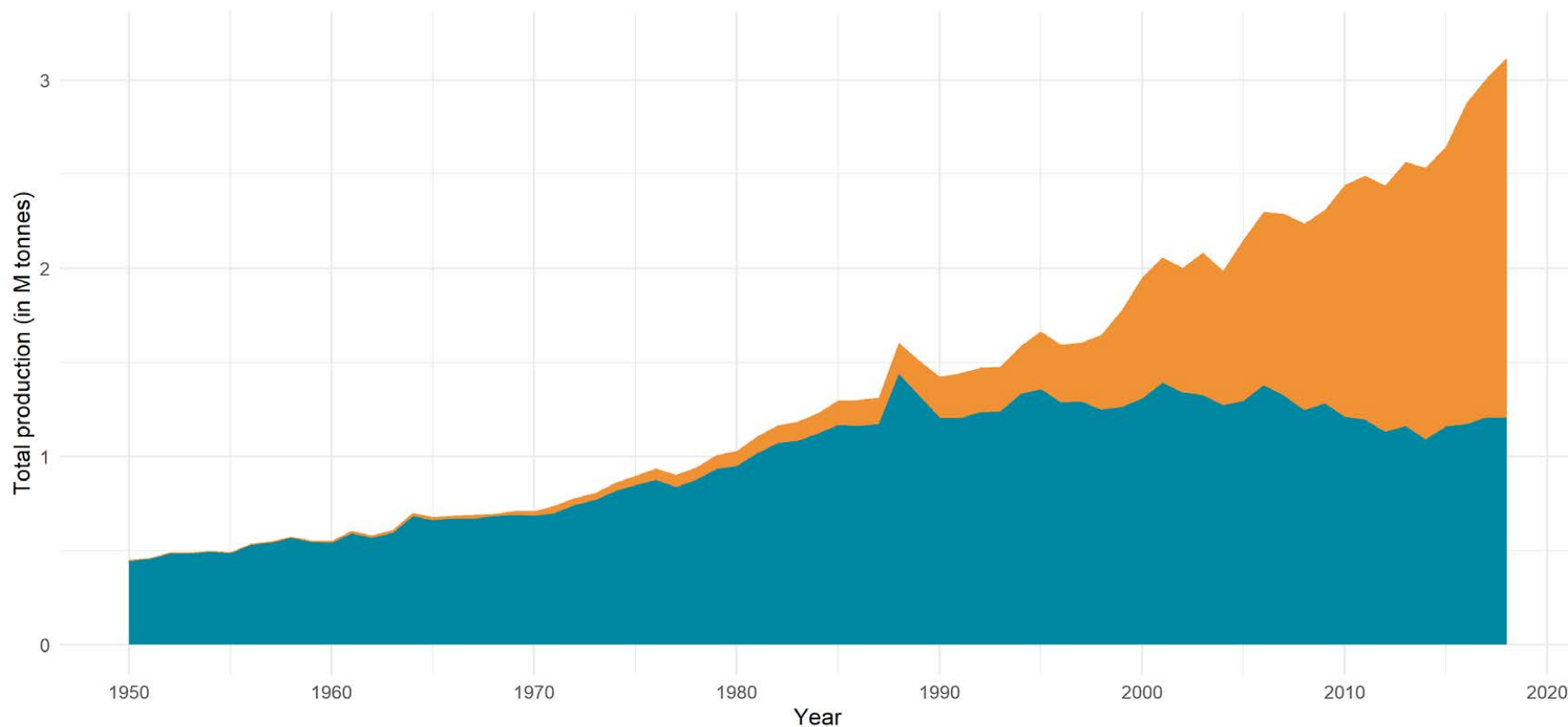


FAO. 2020. *The State of World Fisheries and Aquaculture 2020. Sustainability in action*. Rome.

Production in the Mediterranean



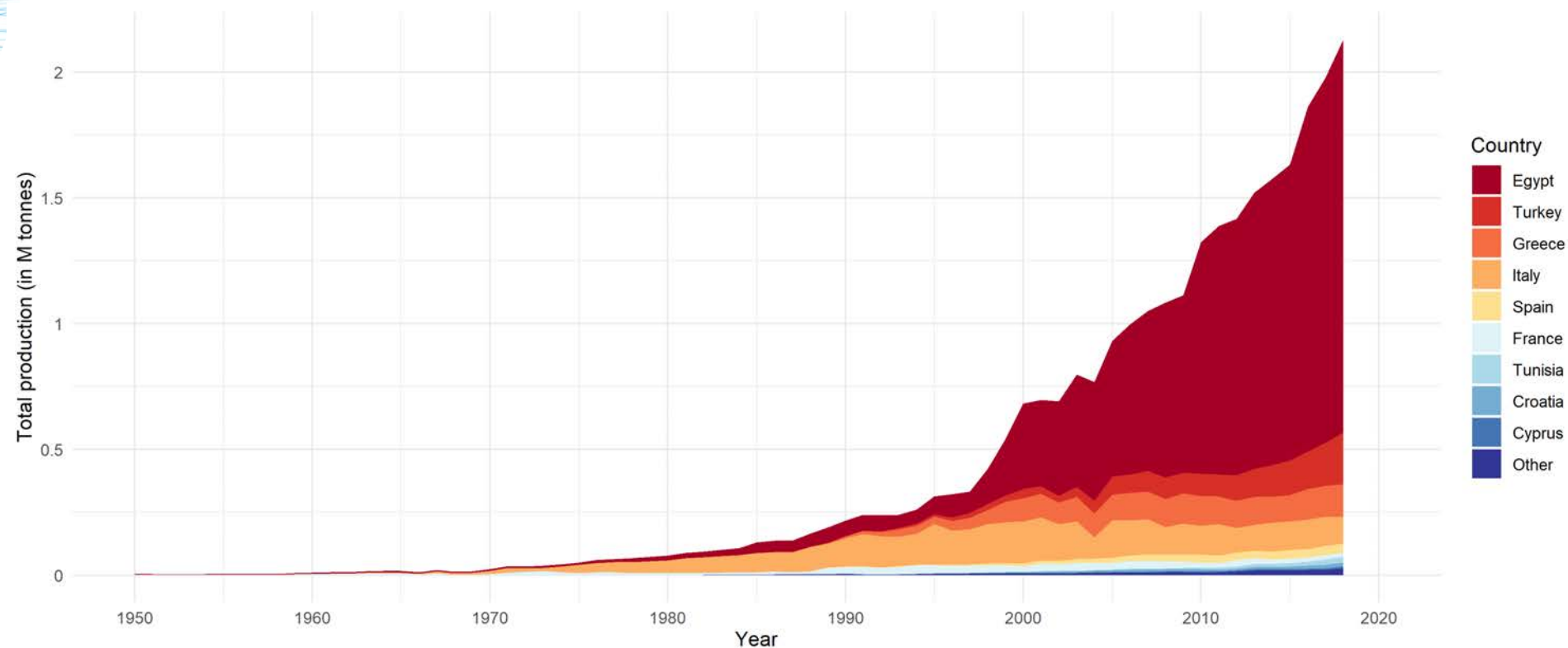
COMPARISON BETWEEN LANDINGS AND AQUACULTURE PRODUCTION IN THE MEDITERRANEAN AND THE BLACK SEA REGION



Production in the Mediterranean



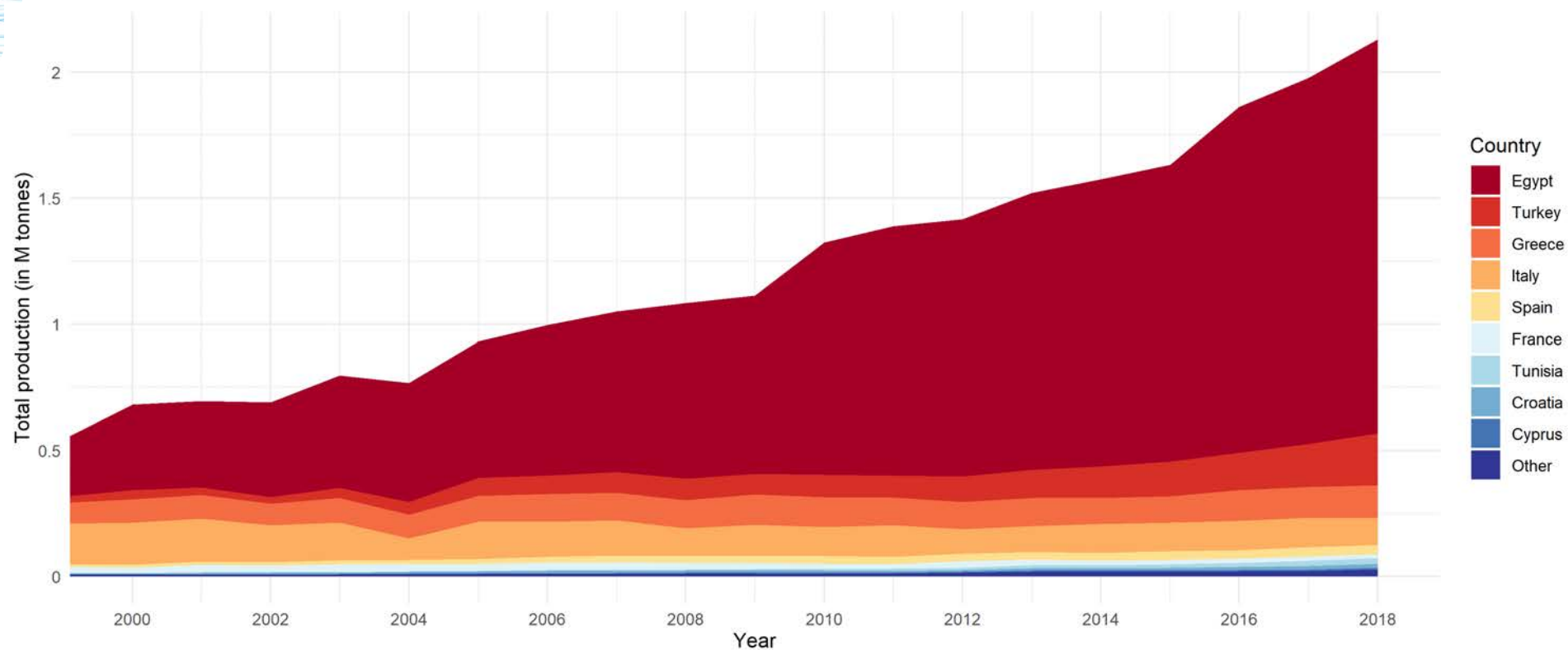
AQUACULTURE PRODUCTION IN THE MEDITERRANEAN BY COUNTRY



Production in the Mediterranean



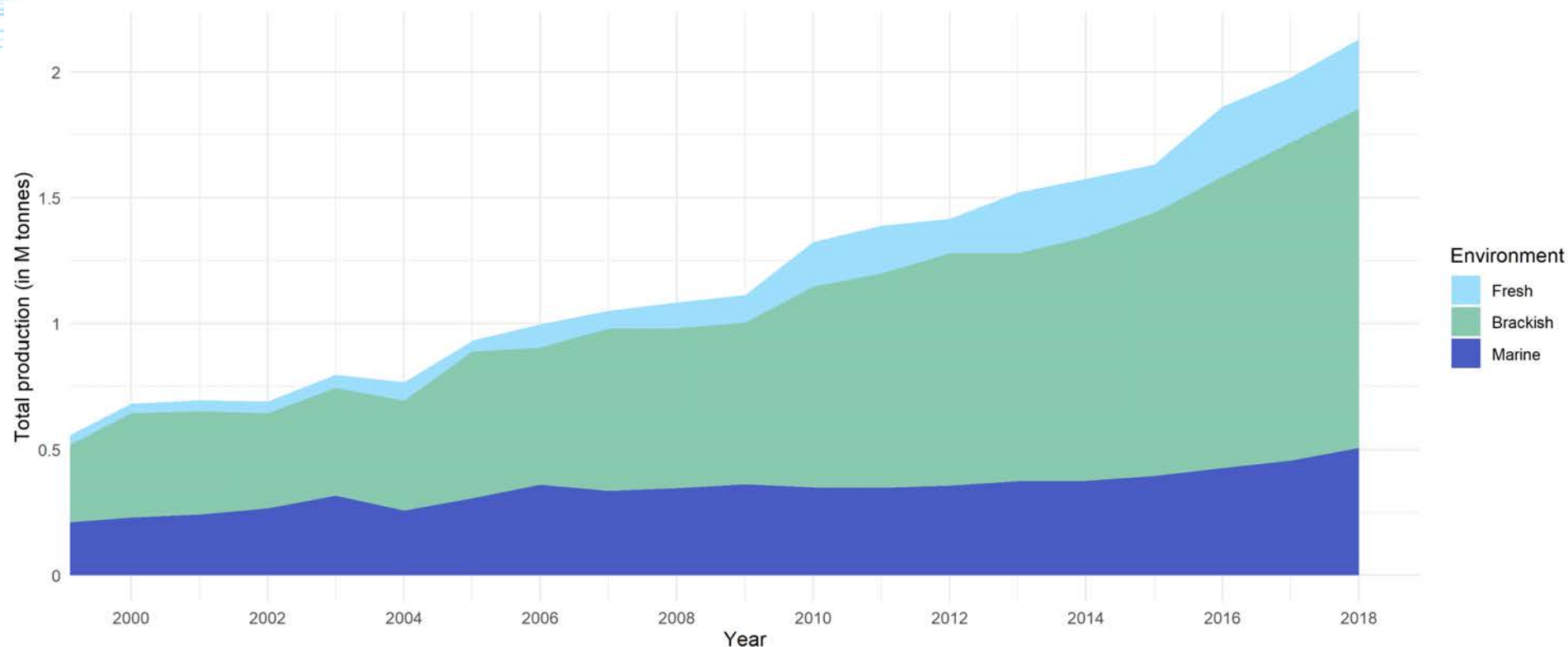
AQUACULTURE PRODUCTION IN THE MEDITERRANEAN BY COUNTRY



Production in the Mediterranean



AQUACULTURE PRODUCTION IN THE MEDITERRANEAN BY ENVIRONMENT

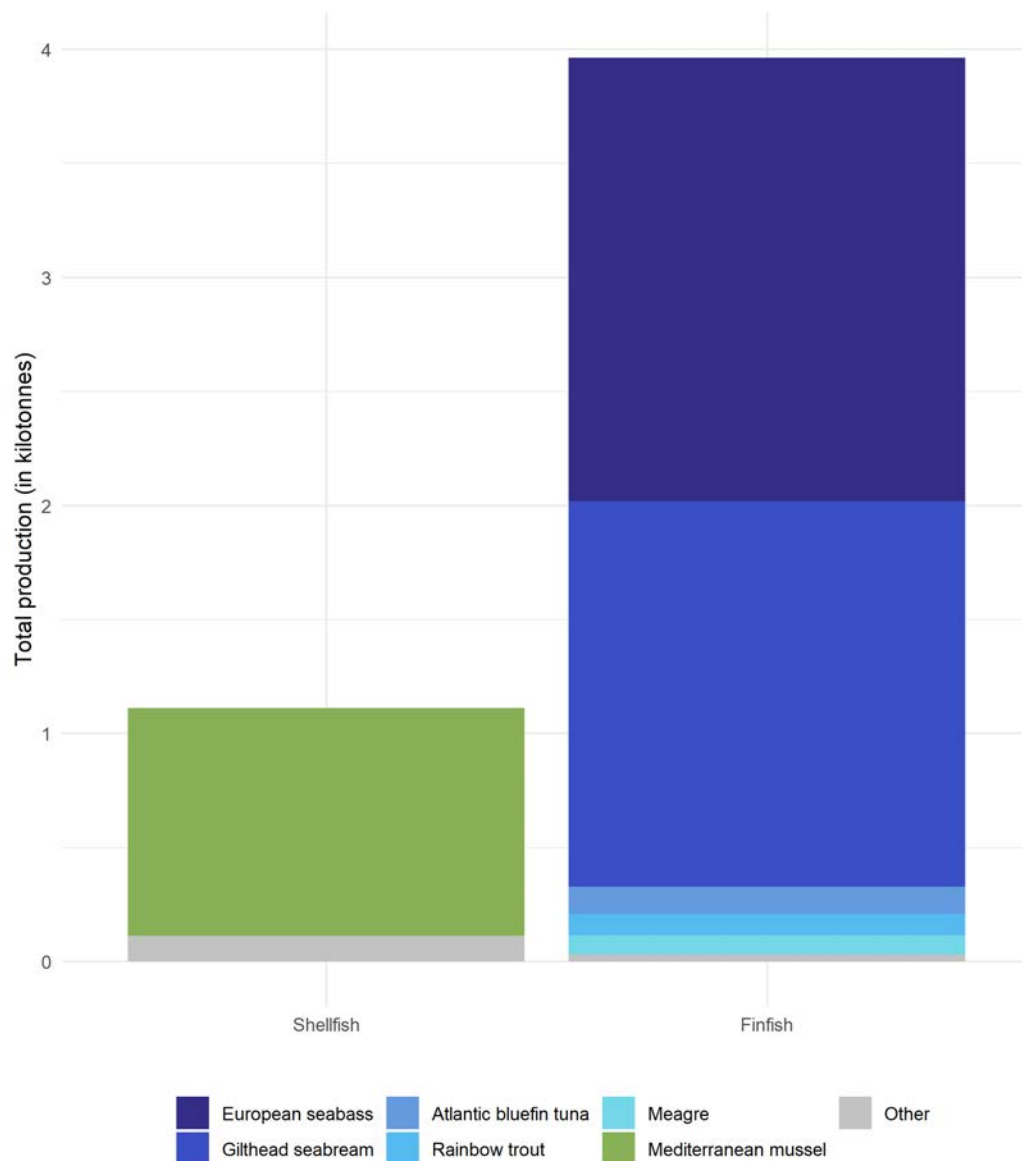


Aquaculture products in the Mediterranean



We see that the main outputs for marine systems are finfish and shellfish, and that very few species comprise the majority of production.

FishStatJ
(<http://www.fao.org/fishery/statistics/software/fishstatj/fr>)



A fast growing sector



A wide variety of
production systems
(not all sustainable)

Environmental
management



Disease
management

Difficult transfer
of knowledge

A fast growing sector



Loss of biodiversity



Rise of
temperature levels



Acidification



A fast growing sector



Conflict for land
and sea use

Risks for small
coastal communities

Resource
management

Policies not up
to date with practices





**Plan
Bleu**

Building the Mediterranean
future together

Thank you for your attention

www.planbleu.org

Bibliography

Useful resources

- FAO. 2020. *The State of World Fisheries and Aquaculture 2020. Sustainability in action*. Rome
- *Strategy for the sustainable development of Mediterranean and Black Sea aquaculture*. 2018 FAO/GFCM
- *State of the Environment and Development in the Mediterranean*. Plan Bleu, 2020.