

Stakeholders' workshop

Acting together to better prevent and mitigate farmed shellfish diseases

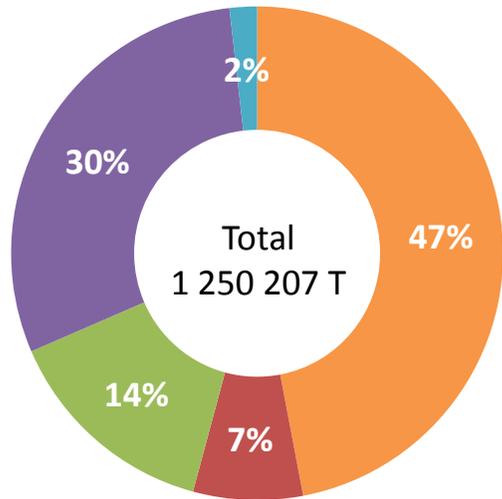
Isabelle Arzul-Ifremer



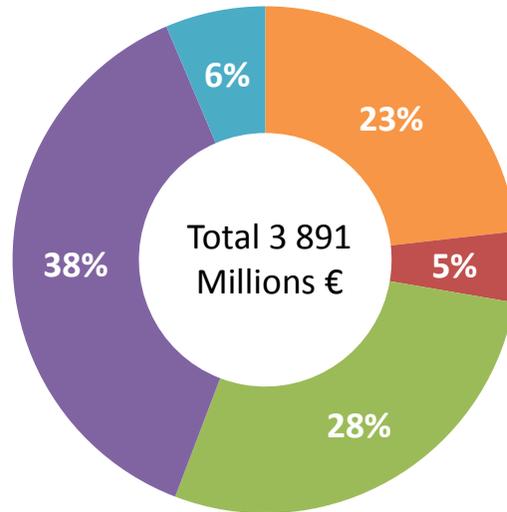
VIVALDI

Preventing and mitigating
farmed bivalve diseases

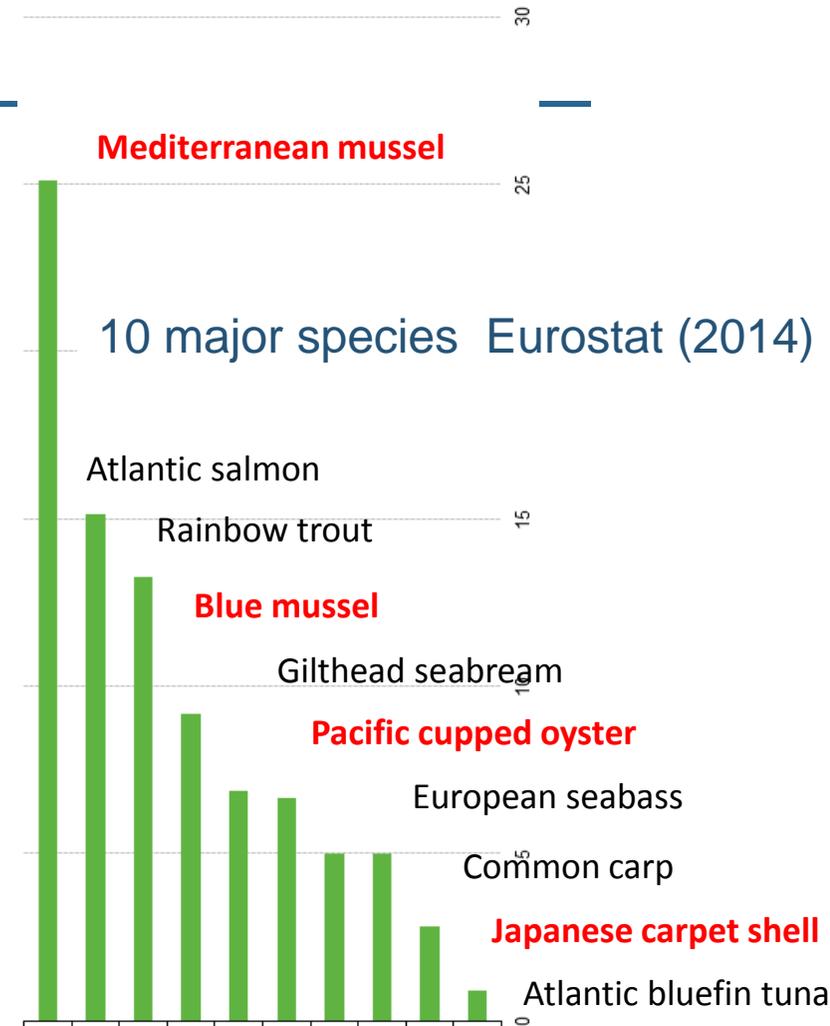
European mollusc production



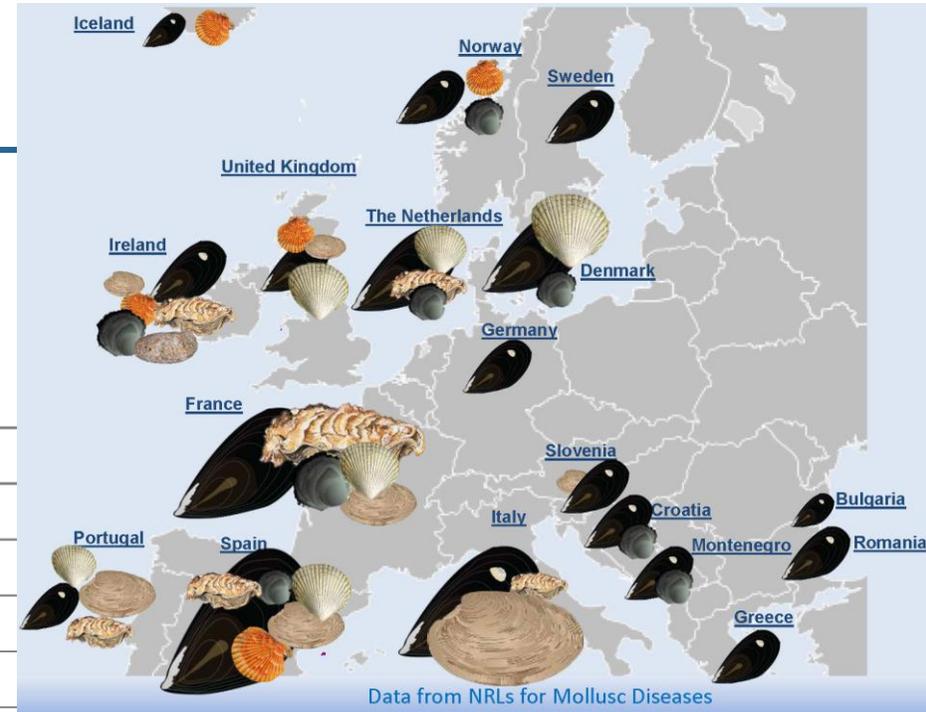
- Molluscs
- Diadromous fish
- freshwater fish
- Marine fish
- Others



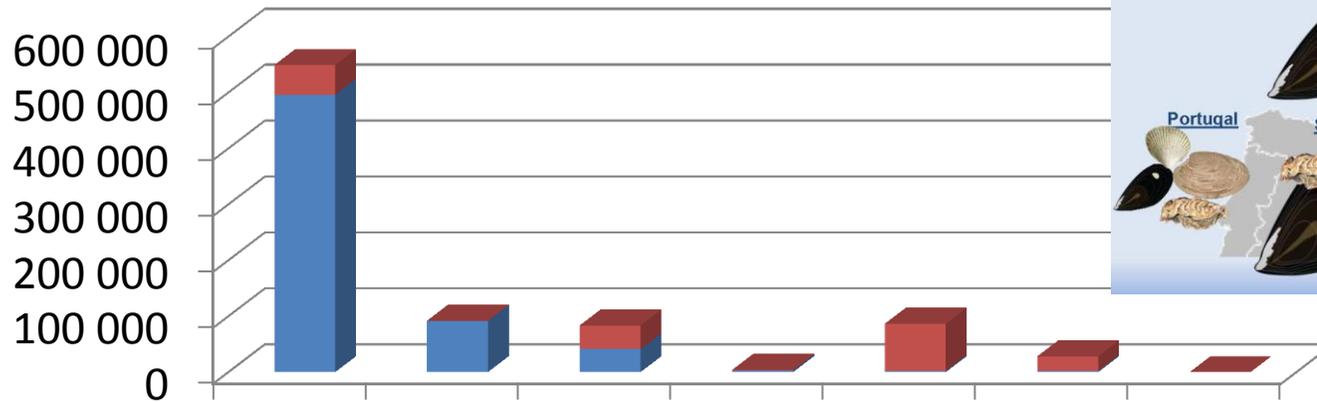
Percentages (t and €) of produced aquaculture groups – Eurostat (2014)



European mollusc production



Production (t)

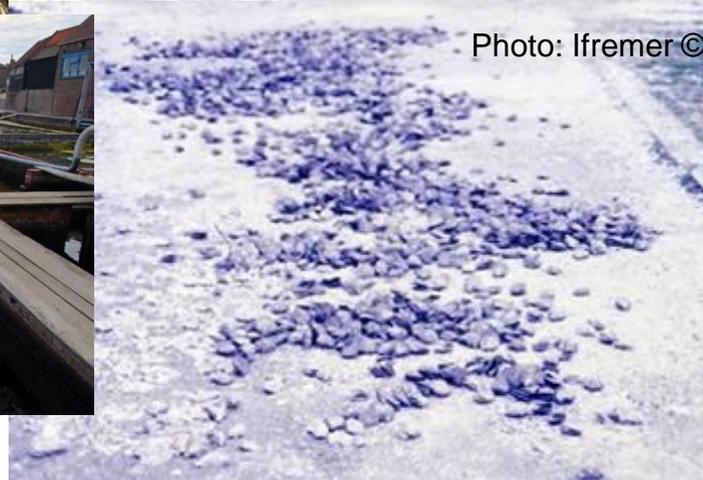
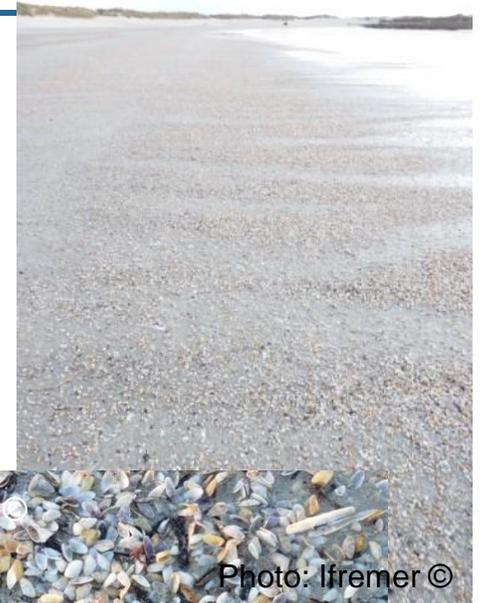


■ capture
■ aquaculture



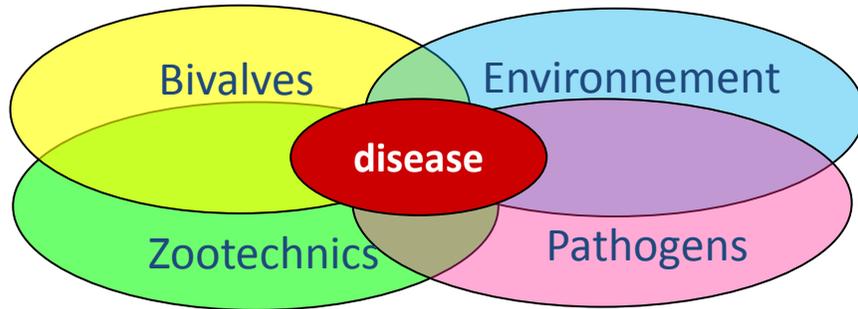
FAO 2015

Vulnerability of this production against diseases



VIVALDI, a EU H2020 project

Better knowledge of factors triggering disease emergence



Sniezko modified by Le Groumellec et al.

Tools and strategies to prevent control and mitigate impact of diseases

A map of Europe with numbered markers (1, 2, 3) indicating partner locations. A callout bubble contains logos for 21 partners, categorized into 'Husbandry practices' and 'Environment'. A legend on the right identifies the markers: blue for public research/education institutions, green for private research institutions, and red for private companies. An inset image shows a sign for 'Ifremer station de la Tremblade'.

21 partners

- Husbandry practices:** LABOGENA, SYSAAF, Nofima, Bivalves, CSIC, Ifremer, Cefas, DTU, Technical university of Denmark, University of Liverpool, Marine Institute, Atlantium, UCC, Università degli studi di Trieste, Queen's University, University of Plymouth, NEI Galway (IC Connemara).
- Environment:** CNAI, CSIC, Cefas, DTU, Technical university of Denmark.

Legend:
 ● Public research/education institutions (blue)
 ● Private research institutions (green)
 ● Private companies (red)

Control of mollusc diseases

Molluscs do not produce antibodies

→ No vaccine

Most of molluscs are farmed in the field

→ No treatment /No disinfection
Pathogen exchange easy

Molluscs act as carrier for many pathogens

→ Eradication difficult/impossible

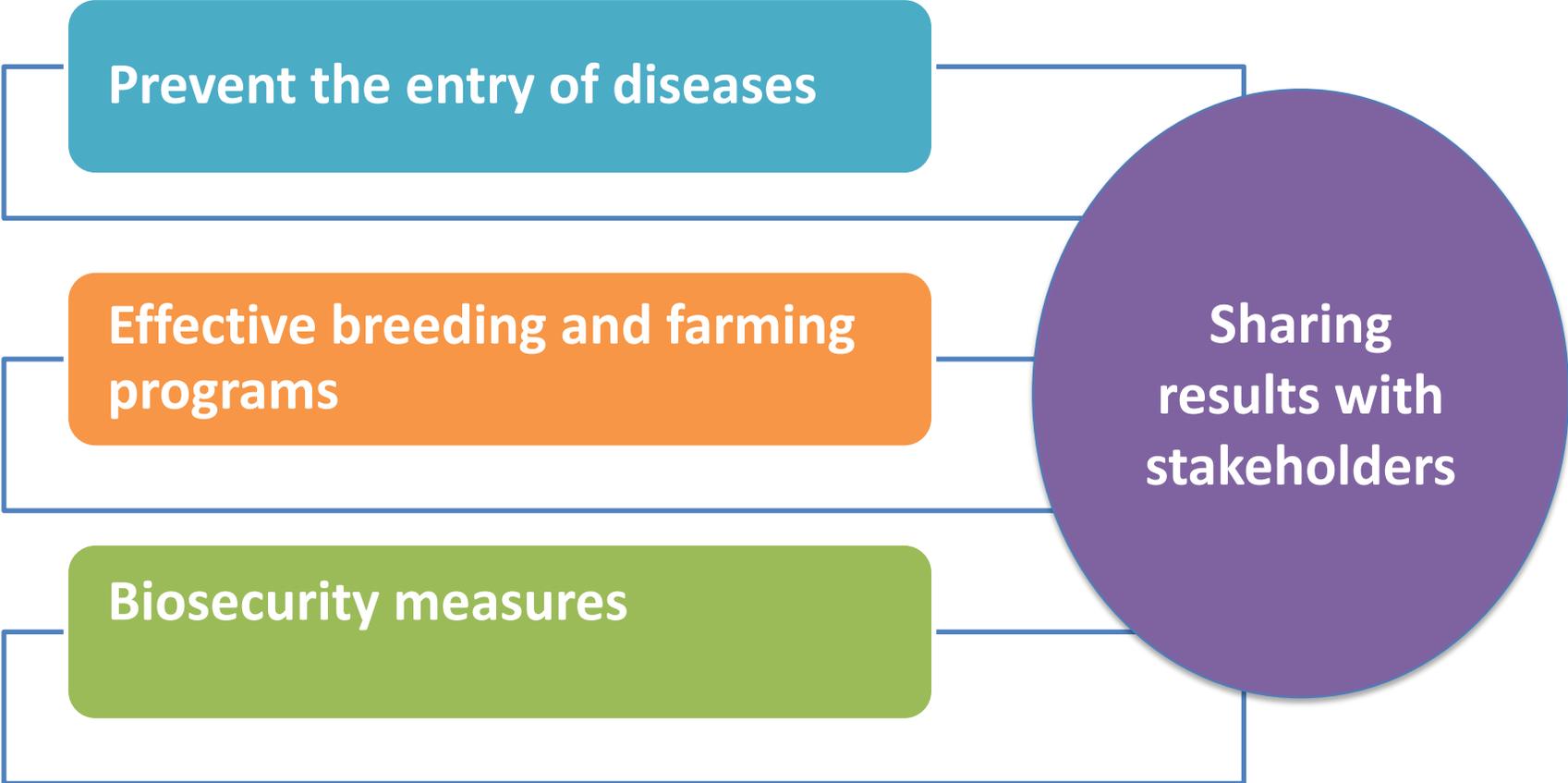
Control of mollusc diseases

Prevent the entry of diseases

Effective breeding and farming programs

Biosecurity measures

Sharing results with stakeholders



Shellfish health: an international challenge



Shellfish diseases do not stop at the frontiers:

Socio-economical and ecological consequences of shellfish diseases

A context in evolution: changing environment, increase of animal movements...

An international expert advisory panel

- Sharing expertise
- Increasing international cooperation
- Improving information flows

Building an International network on shellfish diseases

Organisation of the day





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