

Stakeholders' workshop

*Acting together to better prevent and
mitigate farmed shellfish diseases*

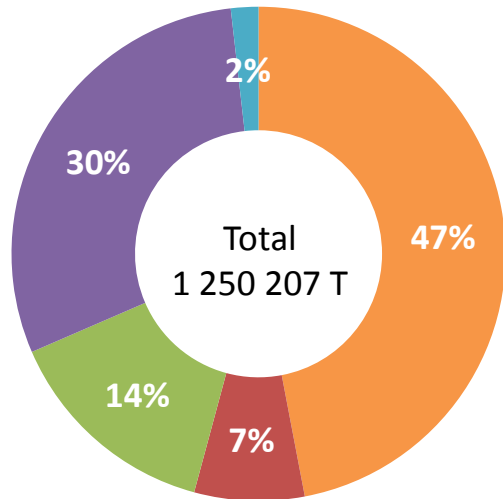
Isabelle Arzul-Ifremer



VIVALDI

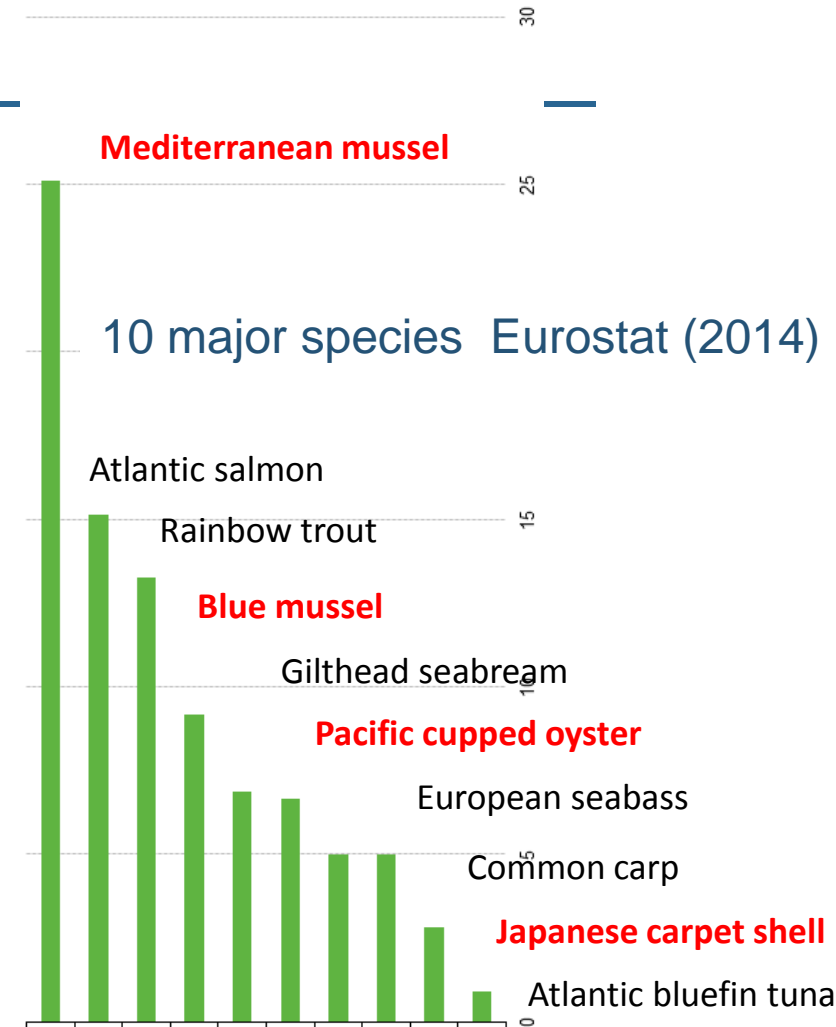
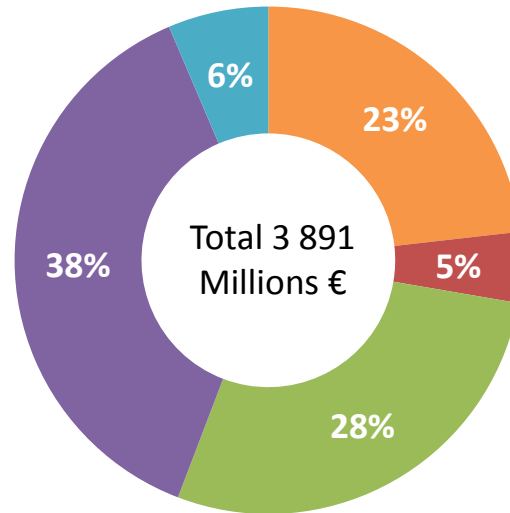
Preventing and mitigating
farmed bivalve diseases

European mollusc production



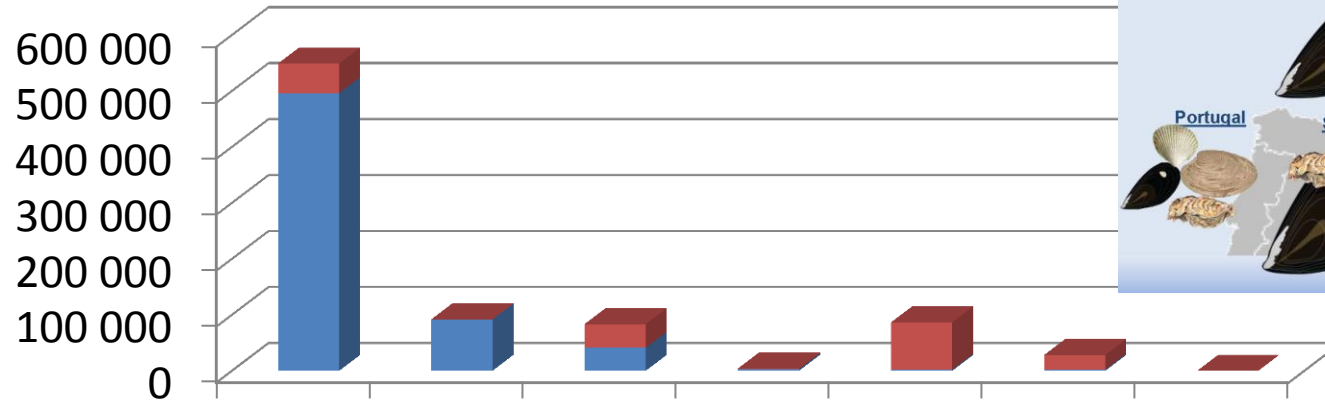
■ Molluscs
 ■ freshwater fish
 ■ Marine fish
 ■ Diadromous fish
 ■ Others

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



European mollusc production

Production (t)



Mussels

C. gigas

Clams

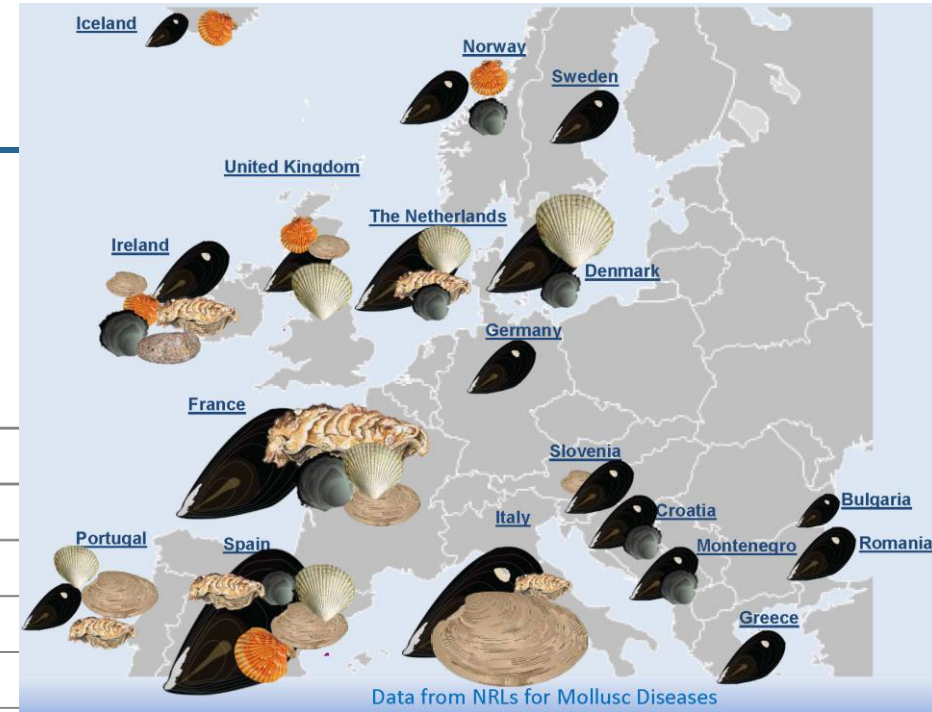
O. edulis

Pecten

Cockles

Abalone

■ capture
■ aquaculture

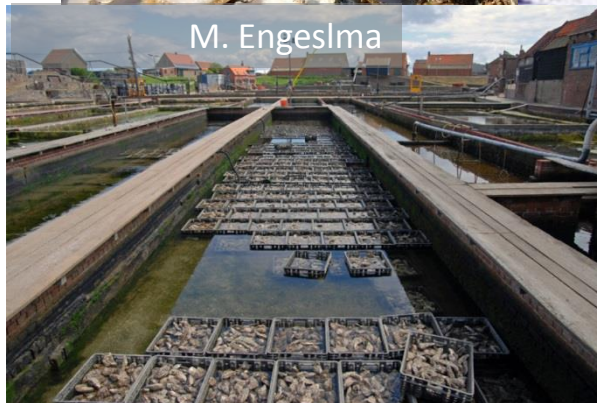
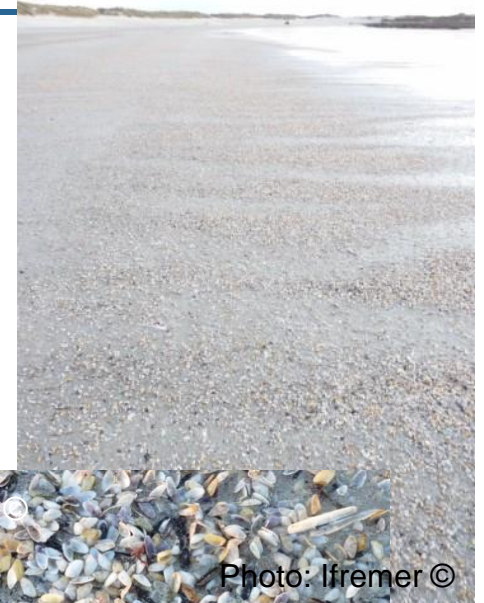


FAO 2015

Vulnerability of this production against diseases



<https://www.lemonde.fr/>



M. Engeslma

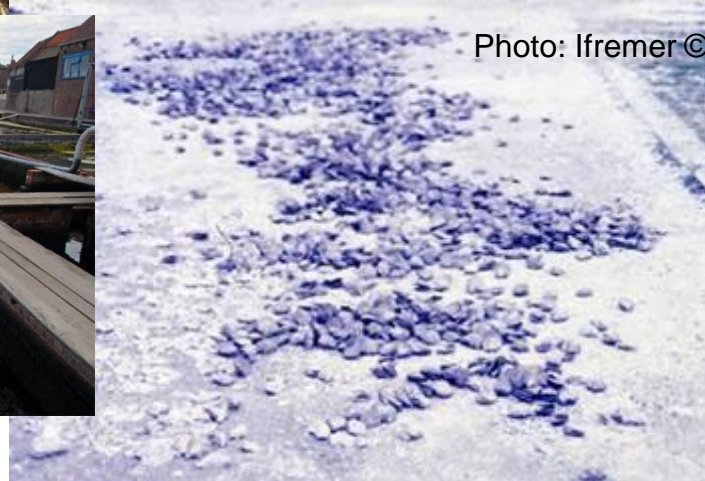


Photo: Ifremer ©

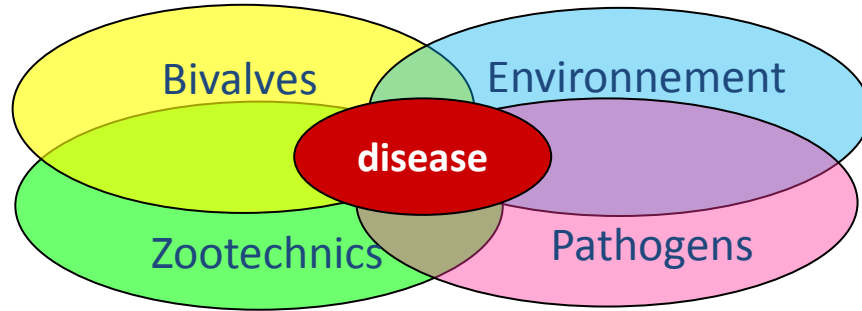


Photo: Ifremer ©

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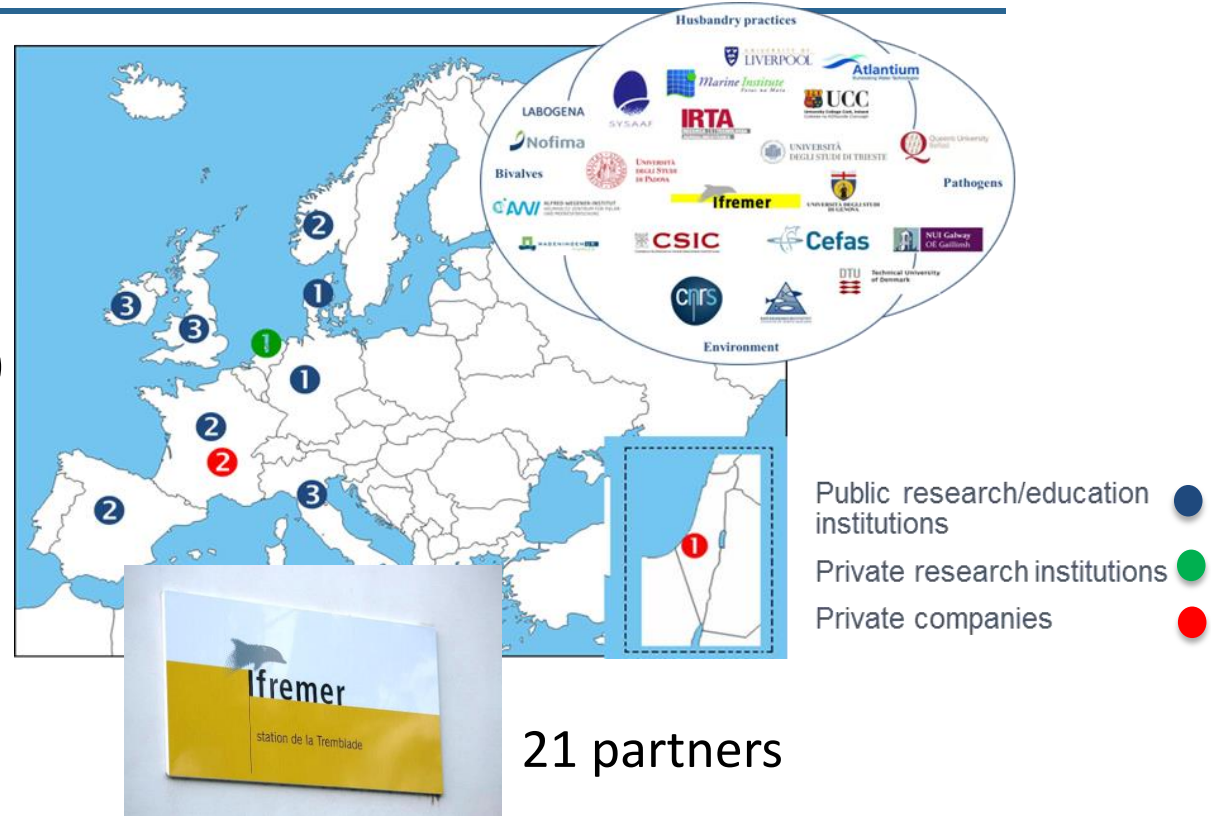
VIVALDI, a EU H2020 project

Better knowledge of factors triggering disease emergence



Snieszko modified by
Le Groumellec et al.

Tools and strategies to prevent
control and mitigate impact of
diseases



21 partners

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

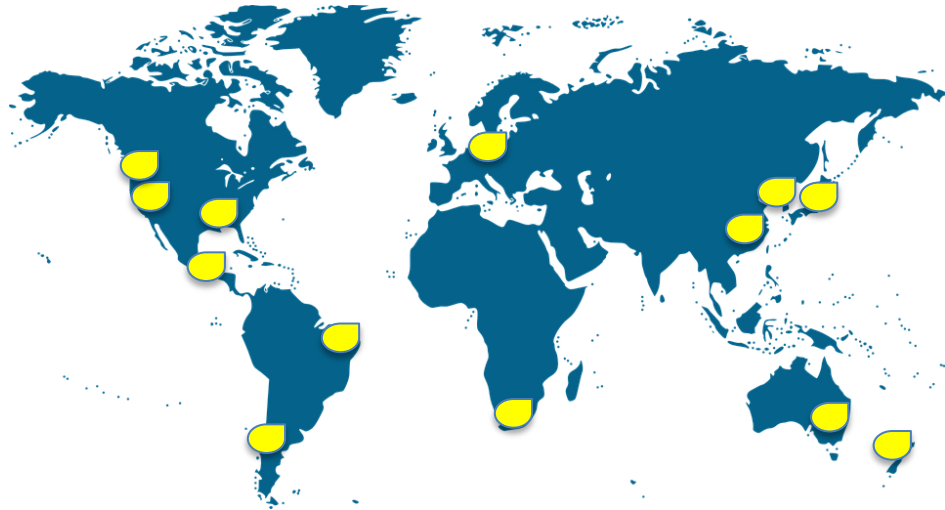
Prevent the entry of diseases

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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