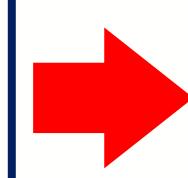
Participatory case definition between stakeholders and implication for early detection: a case study of the oyster production in France



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Background

- Aquatic animal health surveillance aims at early detecting the appearance of any exotic or emerging pathogen in the territorial waters, in order to react promptly to outbreaks and limit its spread.
 As diseased shellfish seldom show symptoms, mortality represents the only sign leading to disease suspicion. Thus, any observation of shellfish increased mortality must be immediately notified by farmers to the local competent authority.
- According to current European regulation (Directive 2006/88/EC), 'increased mortality' means
 "unexplained mortalities significantly above the level of what is considered to be normal for the farm or
 mollusc farming area in question under the prevailing conditions. What is considered to be increased
 mortality shall be decided in cooperation between the farmer and the competent authority".



A mandatory participatory case definition: what reality on the field?

Objectives

- (1) To explore the interpretation of the shellfish 'increased mortality' definition among the stakeholders
- (2) To describe their perceived aim of the mortality notification system

Methods

- Population study: stakeholders of the oyster production (i.e. 120 oyster farmers, 2 local and 2 national competent autority representatives), Charente-Maritime department *
- Face-to-face interviews
- Content analysis to identify thematic categories in the responses

Reporting farmers (N=89) Non-reporting farmers (N=31) Counting dead oysters Counting dead oysters Empty shell White shell White shell Empty shell Flesh in shell Flesh in shell Mud in shell Mud in shell Sticky Sticky Nauseating odour Nauseating odour Specific noise when Specific noise when manimulating oyster bags High growth just before mortality Threshold % for an 'increased' mortality:

Case definition interpretation



Counting dead oysters

Empty shell

Threshold % for an 'increased' mortality:

National representatives (N=2)

Counting dead oysters

Counting dead oysters

representative

representative

representative

**Threshold % for an 'increased' mortality:

**Threshold % for an 'increas

% representative

100

90

80

National

70

60

50

40

30

20

10

0

0-9% 10-19% 20-29% 30-39% 40-49% >50%

Useless Describe the mortality phenomenon Understand the mortality phenomenon Informing other farmers Obtain financial compensation Non-reporting farmers (N=31) Useless Useless

Reporting farmers (N=89)

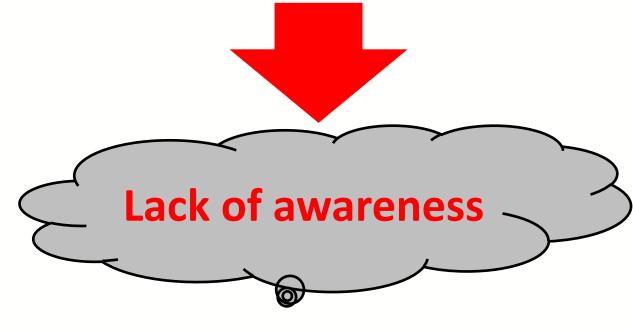
Describe the mortality phenomenon

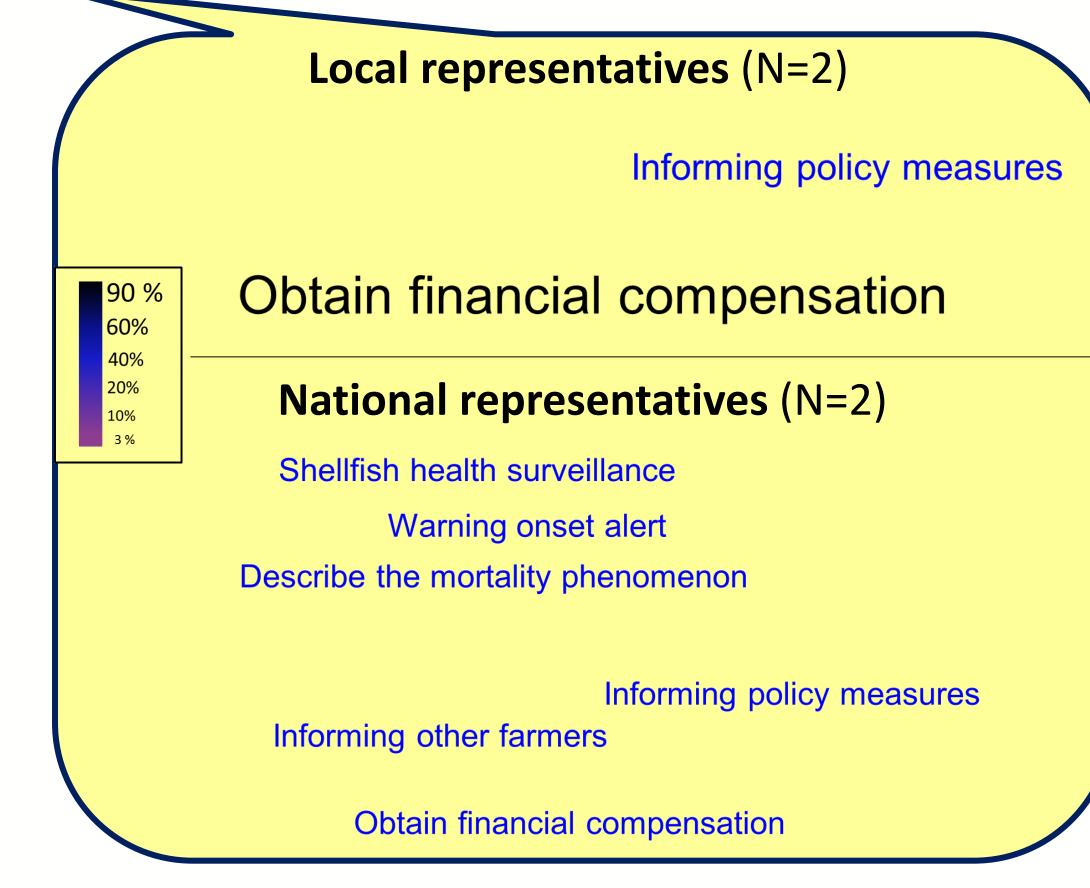
Understand the mortality phenomenon

Obtain financial compensation



Perception of the mortality notification system aim





Perspectives

Informing other farmers

- Farmers are the first to detect oyster 'increased' mortality. Then the competent authority get involved for case validation.
- How to share representations between stakeholders, starting from individual perceptions of abnormalities to a collective alert onset?
- Ownership and commitment towards shellfish surveillance of each stakeholder may be enhanced by information, training, and better education.