Fish-Vet Dialogue: An Introduction

Presented by:

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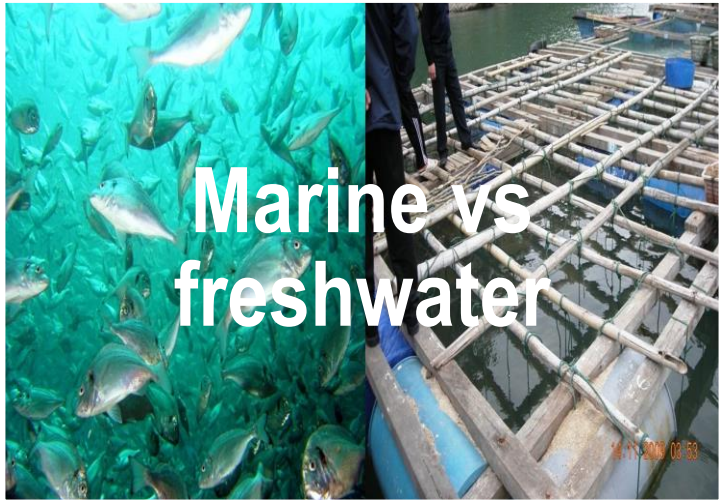
Norad

Aquaculture: dynamic in a complex aquatic environment!



Aquaculture: dynamic in a complex aquatic environment!

About **580** species cultured:

362 finfishes (including hybrids)

104 molluscs, **62** crustaceans,

6 frogs and reptiles,

9 aquatic invertebrates, and

37 aquatic plants

Fish-Vet Dialogue: Exploring Collaboration on Managing Health of Aquatic Organisms

OIE-listed diseases:30

Unknown aetiology
Multi-factorial disease syndromes
Sub-clinical infection

Multi-species: finfish, molluscs, crustaceans, aquatic plants, etc.
Varied systems: land-based, water-based; monoculture, polyculture, integrated
Environment: freshwater, brackish water, marine
Types of management: extensive, intensive.
Scale of operation: small, medium, large-scale: informal/corporate

Undomesticated status of many aquatic species
Paucity of information on health status; Underreporting;
Limited drugs and control options; Few vaccines

Bacterial pathogens affecting cultured aquatic populations: **Some 40+ spp.**
10 groups: Gram+; 4 groups Gram-

Parasites:
All taxonomic groups

Fish-borne zoonotic bacteria and parasites

Socio-economic impacts:
From hundred M of USD to thousand M of USD

Under-the-water biosecurity and health management

Animal welfare
Food safety
Antimicrobial resistance

Spill-over from culture to wild populations and vice-versa

Disease emergence: drivers/pathways
- **Trade** in aquatic species and products
- **Knowledge** of pathogens and their hosts
- **Aquatic health management and disease control**
- **Ecosystem change**

Interaction between host, pathogen, environment AND PEOPLE

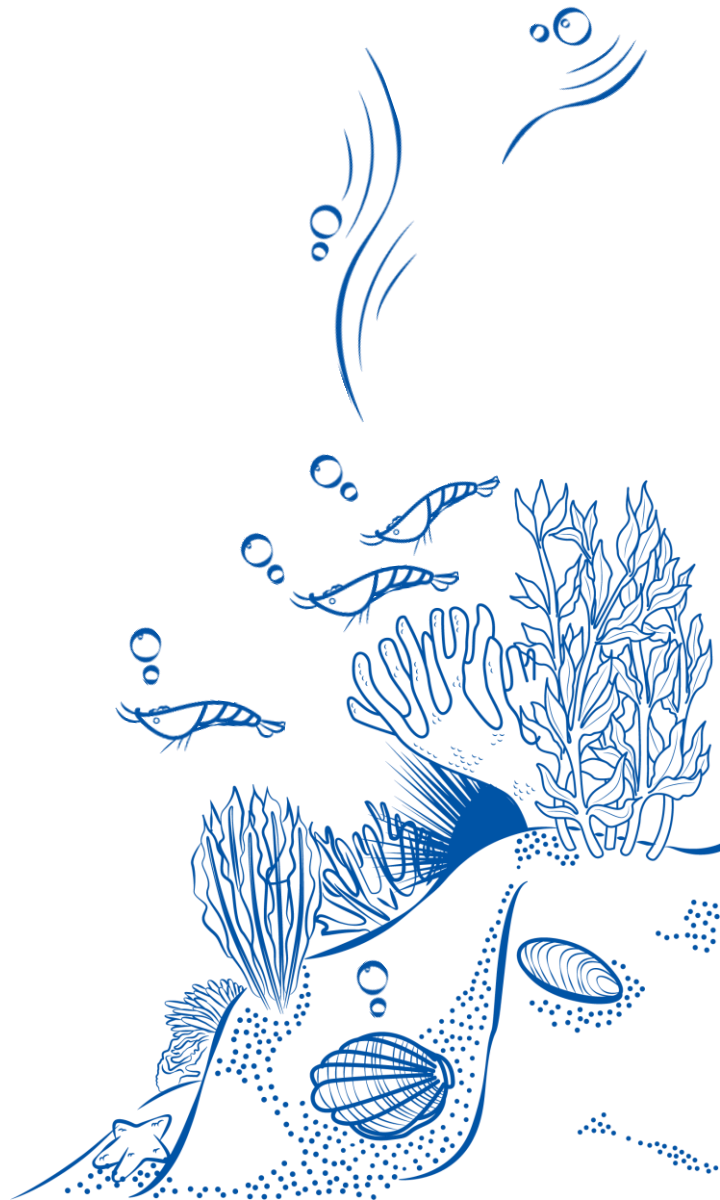
Long time lapse from first observation of mortality in the field to the identification and reporting of the causative agent and the application of appropriate control and risk management measures.
Reactive and solution-based rather than proactive and preventative response actions: endemic, exotic, emerging diseases

Risks/critical points and weak links in the value chain

Economic and societal challenge

Purpose (Objectives)

1. To **provide a platform to inform** of respective mandates, share experiences and identify areas for collaboration concerning aquaculture biosecurity, health management of aquatic organisms and/or trade-related matters;
2. To **share challenges** faced due to COVID-19 in terms of trade of aquatic organisms and their products; and
3. To **discuss future collective actions** based on lessons learned.



Process

Pre-dialogue survey

Written correspondence

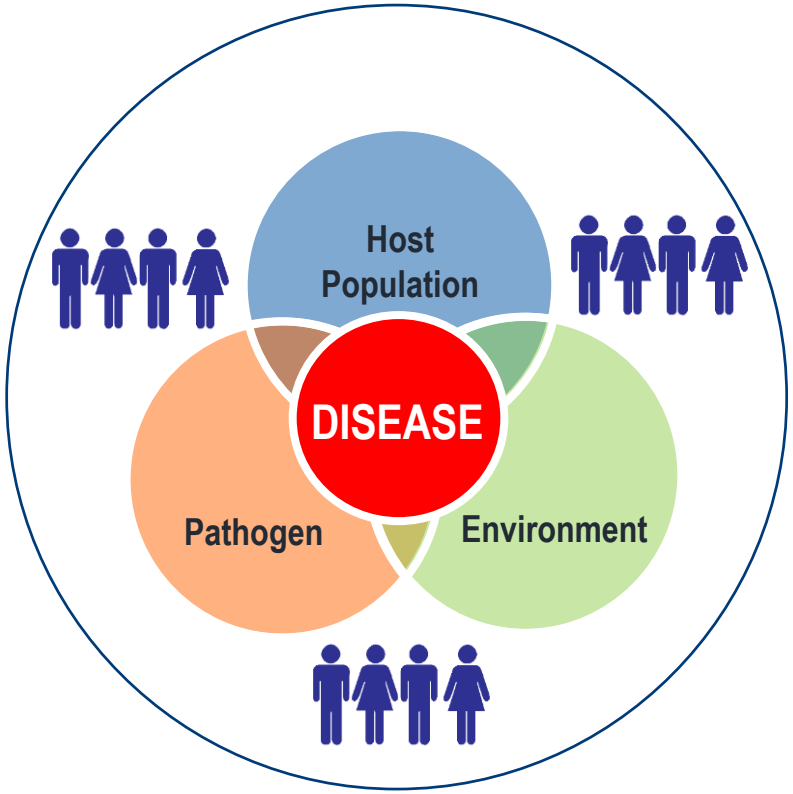
Two sessions for Objective 1:

country plenary presentations and breakout session with country scenario setting presentations

One session each for Objectives 2 and 3

Plenary discussions

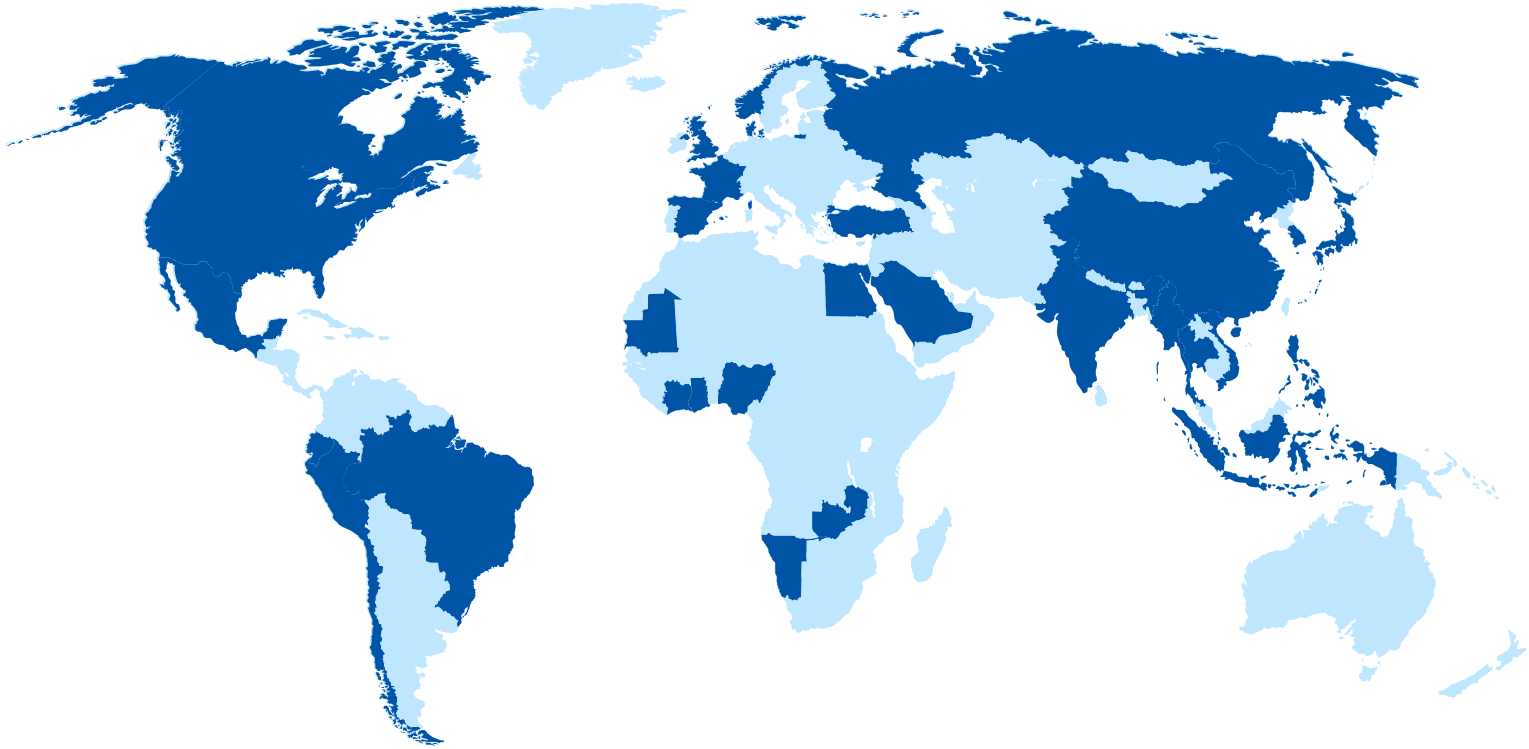
Conclusion



Participants

Competent authorities
Producers
Academe
IGOs
Stakeholders

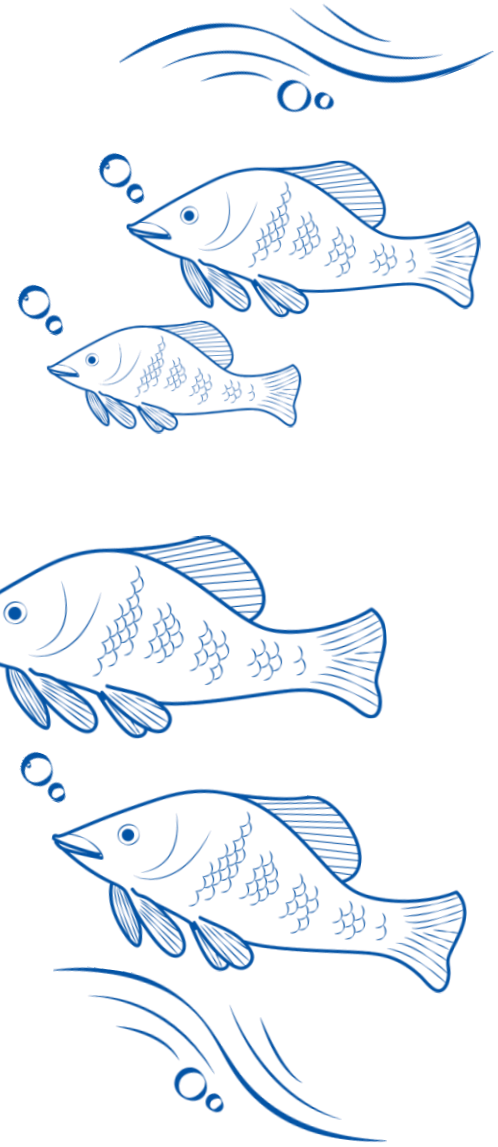
34 countries among the top aquaculture producers, top exporters and importers from five regions



Competent authorities with mandate on fisheries & aquaculture, biosecurity and management of health of aquatic species as well as **producer and academic sector stakeholders**

Africa	Americas	Asia-Pacific	Europe and Central Asia	Near East and North Africa
Nigeria, Uganda, Ghana, Zambia	Chile, Brasil, Ecuador, USA, Mexico	China, India, Indonesia, Viet Nam, Bangladesh, Myanmar, Thailand, Philippines	Norway, Spain, Turkey, Russian Federation, UK	Egypt Saudi Arabia
Namibia, Côte d'Ivoire	Peru Canada	Japan Republic of Korea	Netherlands, Denmark	Mauritania UAE

Products (Expectations)



1. **Improved clarity of mandates** and **strengthened partnerships** to address aquaculture biosecurity issues, health management of aquatic organisms, and/or trade-related challenges in a collaborative manner.
2. **Shared experiences and lessons** to address challenges in the COVID-19 environment.
3. **Recommendations for next steps** to better facilitate collaborative efforts and address future challenges.
4. **A start of a systematic, genuine and long-term engagement** among key stakeholders – to foster co-management and long-term commitment to disease risk management