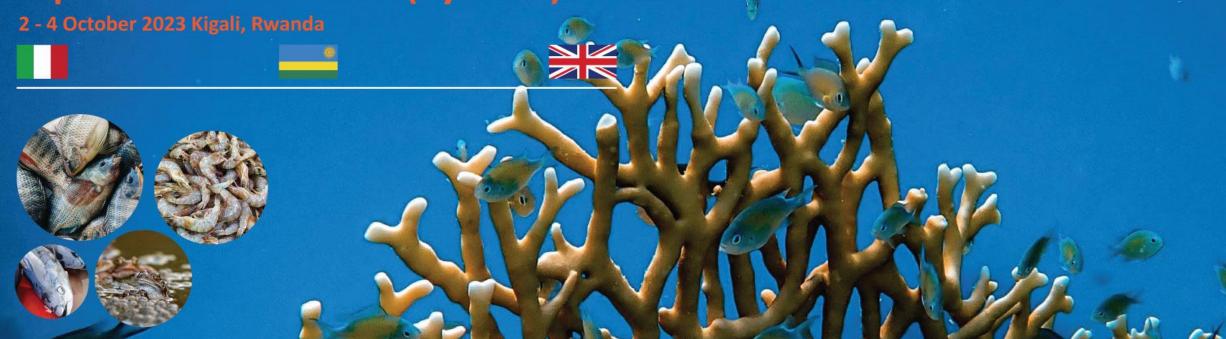


Training of National Focal Points for Aquatic Animal Health (Cycle IV)









WOAH Collaborating Centre for Epidemiology and Risk Assessment of Aquatic Animals (Europe)

Reference Centre



Biosecurity plans

Edgar Brun Director Dep of Aquatic Animal Health and Welfare



Saraya Tavornpanich Leader WOAH Collaborating Center for Epidemiology and Risk Assessment of Aquatic Animal Diseases-Europe











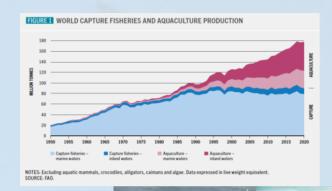


Aquaculture

- A variety of species cultured (~500)
- A variety of production systems in fresh and marine waters
 - 70% small scale
 - Increasingly intensified production
- "Blue food" of the most traded animal products in the world













.. towards a better understandig.....

Disease outbreaks are the greatest threat to aquatic animal production globally (Monique Elloit, Dir Gen, WOAH)

....and

Controlling diseases are essential for an environmental, social and economically sustainable industry

OIE Aquatic Animal Health Strategy

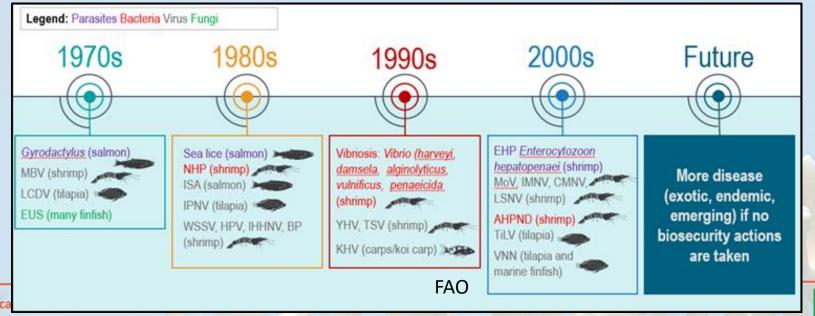






.. towards a better understanding..

- Can Veterinary Services continue to neglect aquaculture production, the fastest growing food production sector?
 (Monique Éloit, Dir Gen, WOAH)
- OIE Aquatic Animal Health Strategy 2021–2025 launched







Tilapia Lake Virus



- First reported in Israel, 2014
- TiLV confirmed in 16 countries in the Middle-East, Asia, Africa and Latin-America by 2020
 - Likely that TiLV is in more countries
- Its threat to tilapia farming at the global level is significant mortality rates up to 90%
- Reportable to WOAH in 2022



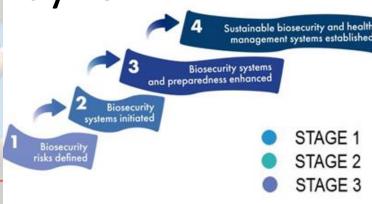
(WOAH, FAO)





Biosecurity in focus

- WOAH Aquatic Animal Health Code
 - Chapter 4.1 Biosecurity for aquaculture establishments
- EU/AHL regulation 2020/691
 - Rules for aquaculture establishments and transporters of aquatic animals
- FAO led Progressive Management Pathway for Aquaculture Biosecurity (PMP/AB)







BIOSECURITY PLAN

a document that identifies potential pathways for the introduction of <u>pathogenic agents</u> into, or <u>spread within</u>, or <u>release from</u>, a <u>zone</u>, <u>compartment</u> or <u>aquaculture establishment</u> and describes the measures applied to mitigate the identified <u>risk</u>, in accordance with the recommendations in the <u>Aquatic Code</u> (AAHC,WOAH)





A farm-level BP should include

- Site location and features
- Layout of the farm
- Production details









..... should include

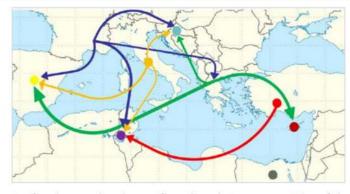
- «Barriers» for personnel/guests in and out of the facility
- Separation of different departments in the facility ("epi-units")
- Routines for sharing equipment between facilities/departments
- Routines for dead fish collection and handling
- Routines for washing and disinfecting equipment
- Routine for incoming biological material (live animals, roe, etc..)
- Routines for verification of washing and disinfection by transporters (before loading or unloading)

- Who to turn to for help reporting (internal-external)
- Transparency biosecurity is a collective not a competitive action



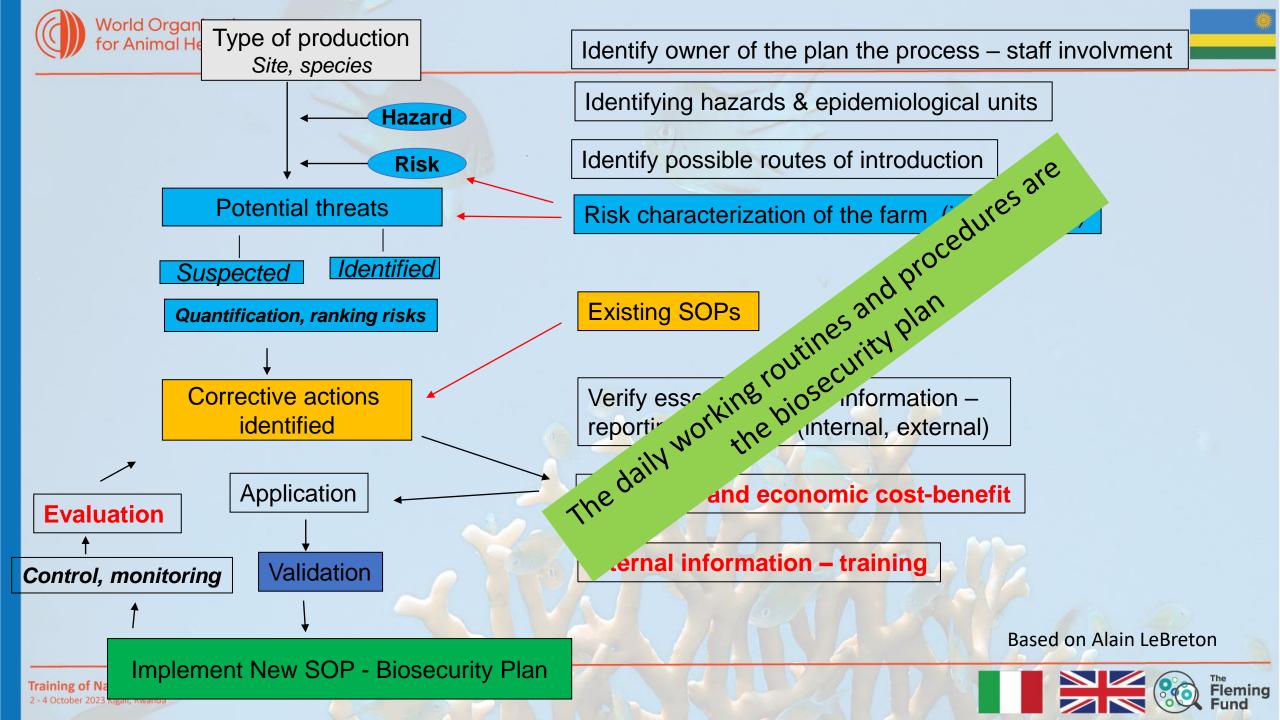
be based on risk assessment

- Health status in the area
- Distance to other facilities, waterways, slaughterhouses, etc.
- Water source and water treatment
- Outlet water
- Health status of fish taken into the facility
- Movement of live fish
- Vaccination
- Traffic to and from the facility
- Health monitoring



From the EU project MedAID

. Movements of seabass and seabream fingerlings between countries of the companies surveyed





The epidemiological triad

Agent

(pathogens)

Quizlet.cor



Knowledge, facilities, routines, technology, resources to secure production based on welfare

Host

WOAH
delegates
FP,extention
officers

Surveillance, control, early detection, treatment, transparency

Environment



Biosecurity farm plans are integrated in daily routines

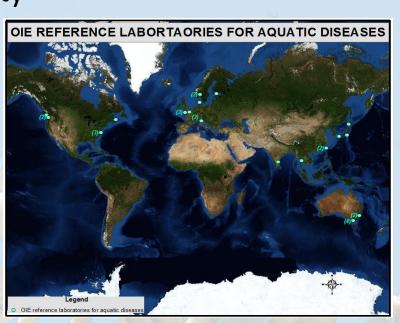






Biosecurity Plan - National Level

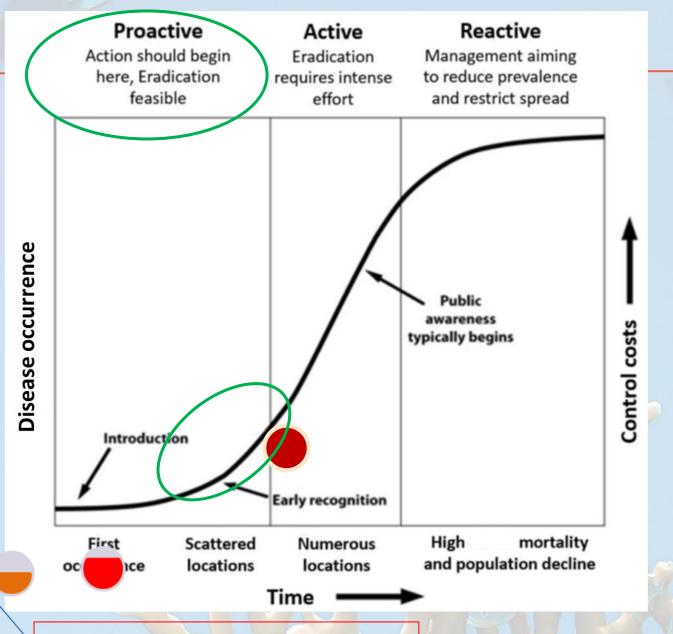
- Regulation, enforcement, funding, legislation
- "Authority"-competence/capacity
 - Disease list
 - Transparent reporting
 - Preparedness
 - Diagnostics
- Collaboration
 - Between farmers, regions
 - Across disciplines and authorities
 - Across borders (rivers, coast line)
- Emergency capability
 - How to handle huge numbers of dead fish











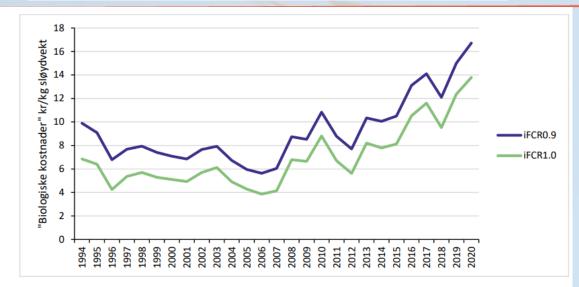
Animal health economics

Biosecurity and surveillance



RA, awareness



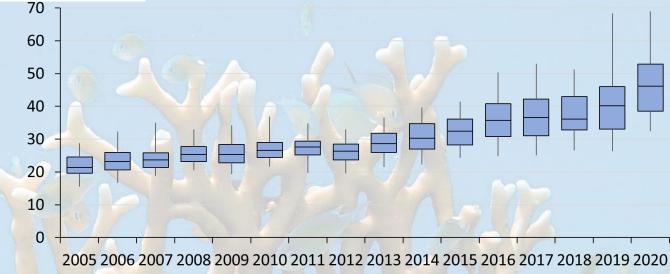


Production cost, inflation adju

(NOK/kg WFE)

A dramatic rise in the «global burden of diseases» - in the biological cost of diseases for the salmon farming industry

The cost of animal diseases is a cost to the society



B. Misund, 2022









Opinion: Does the WTO need a new International Reference Point to control the spread of animal diseases via trade?

8 May 2023

By Victoria Alday-Sanz, DVM, Ph.D., Daniel F. Fegan and Timothy W. Flegel, Ph.D.

Would a new "Codex Animalia Commission" allow the World Organization for Animal Health to focus on wider non-trade issues?



.. suggesting a new IRP ".....to safe trade in animals and their products, allowing WOAH to focus on wider, non-trade, issues such as global improvement of general animal health and welfare and other issues relevant to its members









Opinion: Does the WTO need a new International Reference Point to control the spread of animal diseases via trade?

WOAH – biosecurity – trade

- countries are reluctant (or even avoid) reporting their health status to WOAH for new and newly emerging diseases
- risk of trade restrictions being imposed by trading partners, even for exported, dead aquaculture products
- countries seek confidential advice from international experts or organisations but choose not to inform WOAH
- global industry is placed at risk
- WOAH faces loss of credibility in its inability to prevent disease spread due to lack of reliable information.









Thank you
for
your
attention

Aquatic animal health and welfare





