

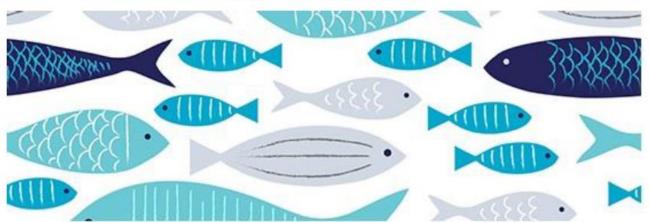




The Second Aquatic Animal Health Workshop for Central Asia and Transcaucasian countries and
Central Asia and
Transcaucasian Aquatic Animal Health Network

Tashkent (Uzbekistan)

24th - 26th April 2024



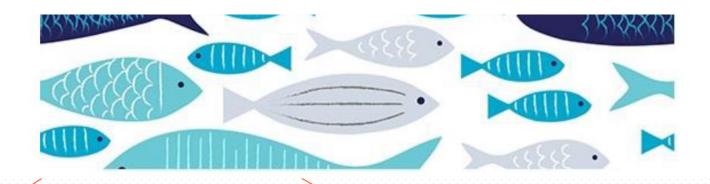






## Regional Workshop for WOAH National Focal Points for Aquatic Animals IV Cycle Chioggia (Italy)

18 – 20 October 2023 M.Latini WOAH SRR Central Asia









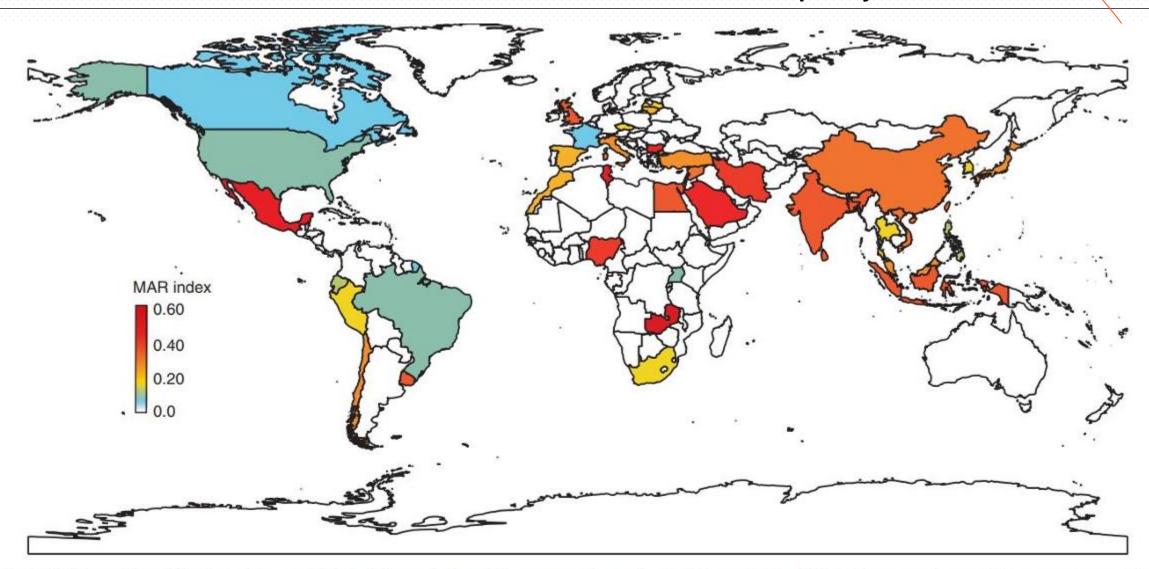
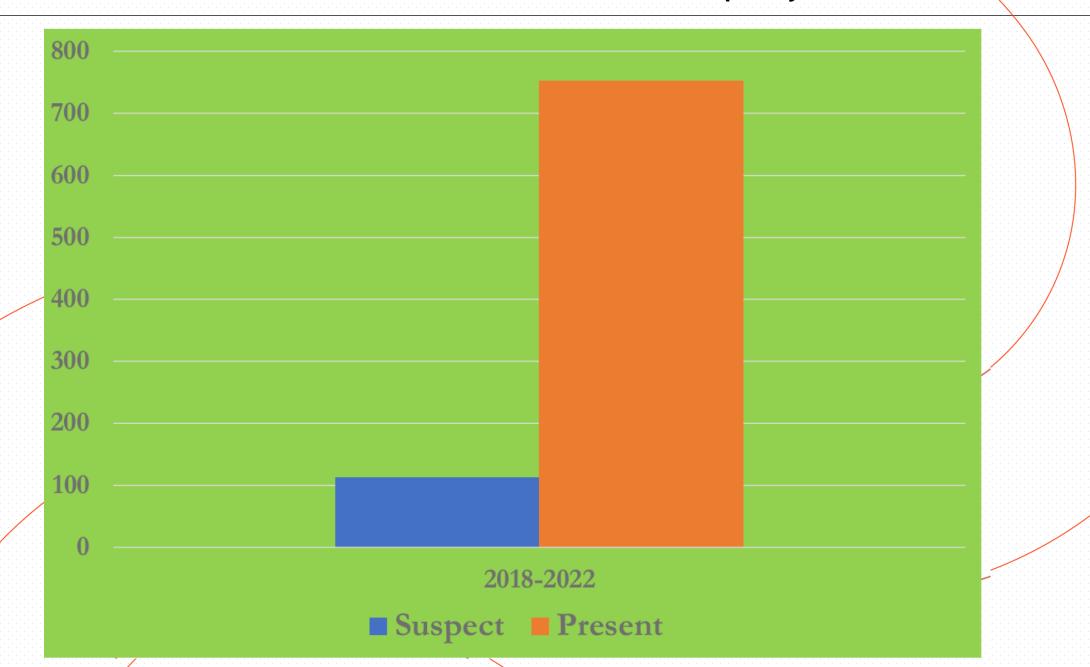
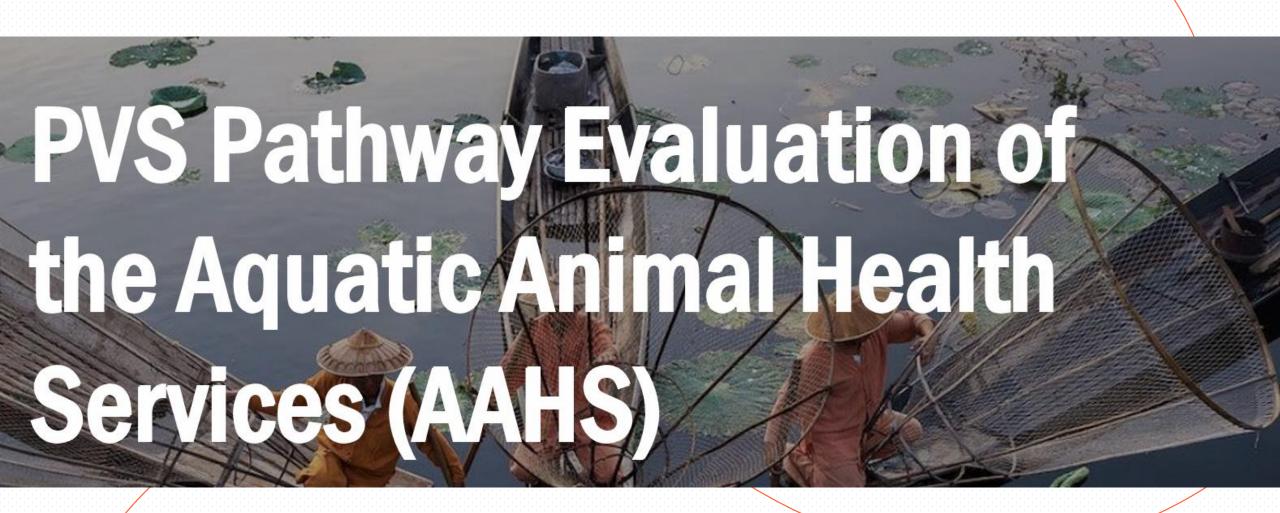


Fig. 2 Global multi-antibiotic resistance (MAR) index calculated from aquaculture-derived bacteria. No MAR index was calculated for countries in white due to data deficiency.







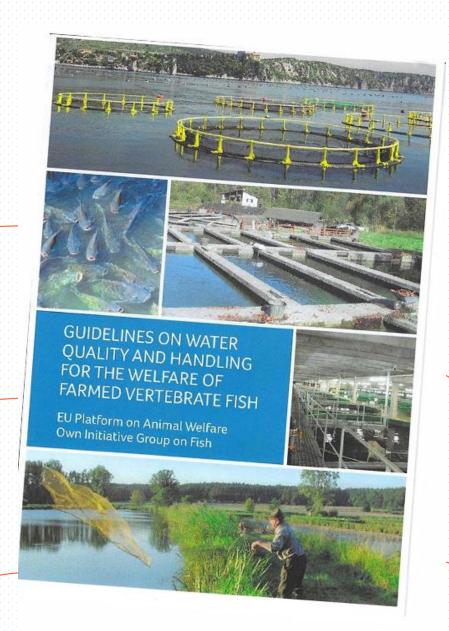








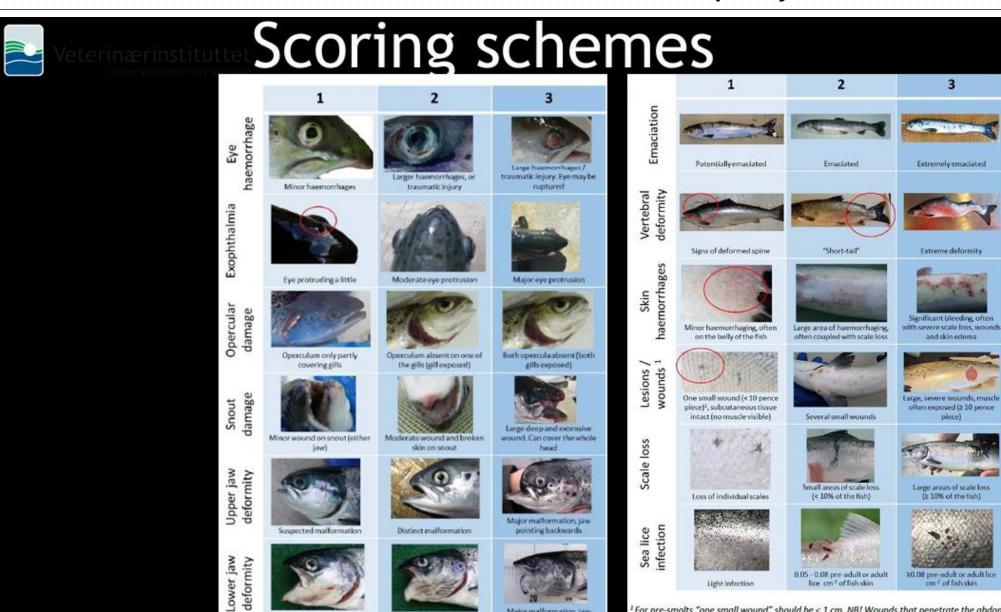




2000



#### Remind of the outcome of the AA FP workshop IV cycle



Major malformation, jaw.

pointing backwards

Suspected malformation

Distinct malformation

For pre-smolts "one small wound" should be < 1 cm. NB! Wounds that penetrate the abdomina cavity should be scored as a 3) irrespective of size

Light infection

lice cm<sup>-2</sup> of fish skin

cm<sup>-2</sup> of fish skin



## **Aquatic Animal Health Strategy**

This Aquatic Strategy is a call to action to address some of the greatest challenges in managing aquatic animal health and welfare. It identifies and coordinates actions that address the highest-priority common needs and focus resources on activities that will provide enduring impacts

- Announced at the 4th Global Conference in Chile in April 2019
- Its development was a collaborative effort
- Support and input from the Aquatic Animal Commission and the whole WOAH Community
- Launched in May 2021

## OIE Aquatic Animal Health Strategy 2021-2025















## International Aquaculture Team

Saraya Tavornpanich
Ewa Harasimczuk
Edgar Brun
Jacob Zornu
Arve Nilsen
Kari Norheim
Ketil Skår
Haakon Hansen
Maria-Fernanda Serrano
Kofitsyo Cudjoe











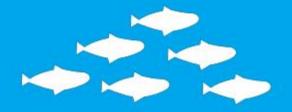


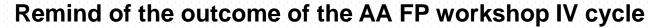








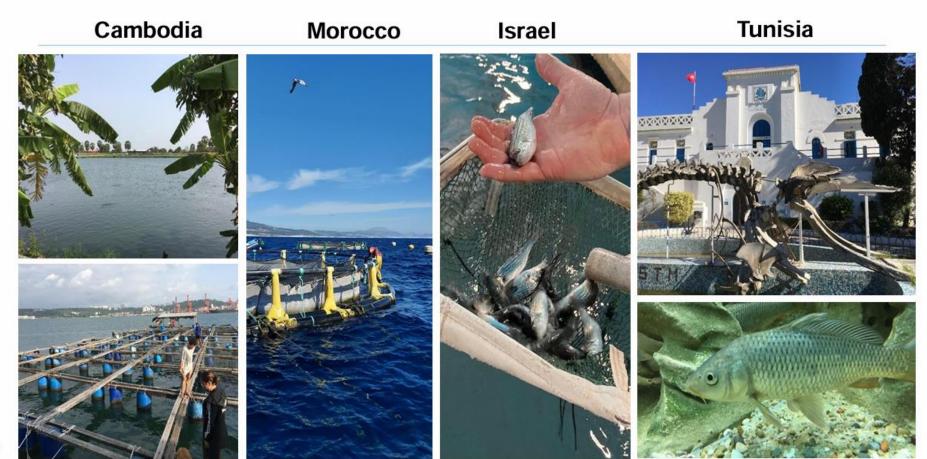




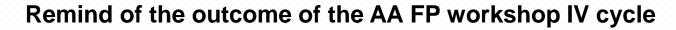


## Aquae Strength Project - Activities

Field Visit to beneficiary countries – March to Oct 2023











## **Efficient surveillance system**

### Basic biosecurity conditions:

- Early detection system
- Capacity and expertise to investigate disease events
- Appropriate diagnostic capability
- Chain of command





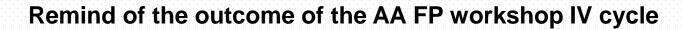


## Asia-Pacific Aquatic Animal Health Network (AP AquaNet)

operationalize the Aquatic Animal Health Strategy to meet

regional needs and strengthen collaboration.

**WOAH Regional** Collaborating Centres and Aquatic Animal Health **Focal Points for Aquatic** Other Partners & Representation Asia Reference Laboratories in Partners: Standard Commission Animals in Asia Pacific Institutions: Pacific Asia Pacific Universities, NACA, SEAFDEC, Research FAO.. institutions, Private Regional networks - an excellent mechanism to companies, Donor..















#### Remind of the outcome of the I AA FP webinar

### Chemical causes



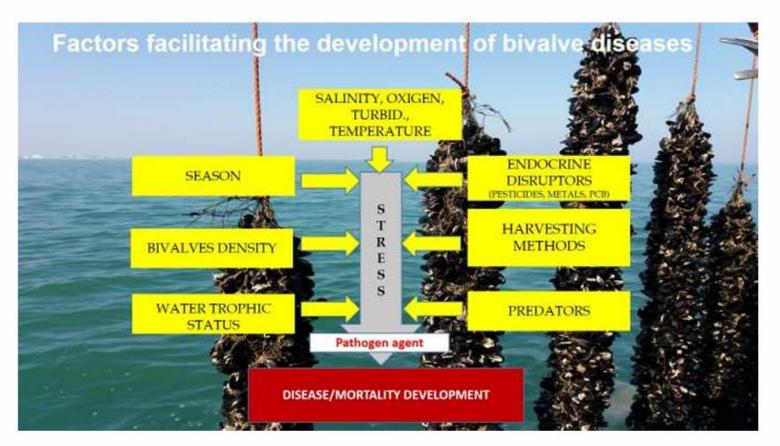


Irritating or toxic substances that compromise the health of the

gills.





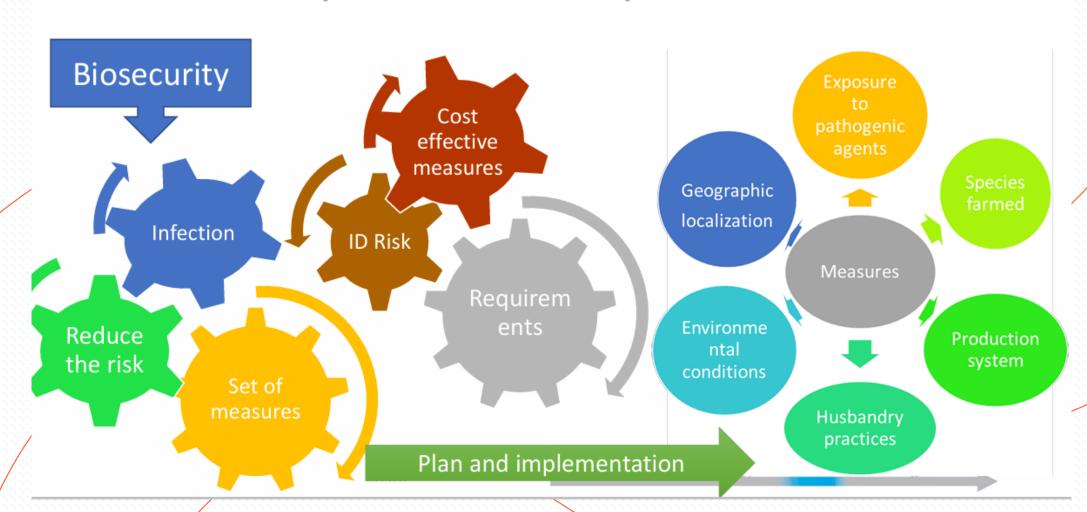




There is a marked dependence of molluscs on the environment and often mortality is the final event of an equilibrium that has been broken upstream



## Principles, Plans, Implementation



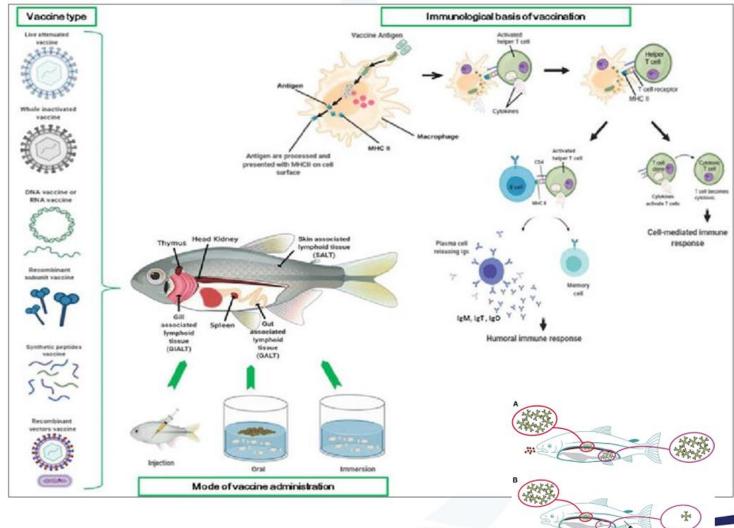


#### **VACCINES AND VACCINATION STRATEGY**





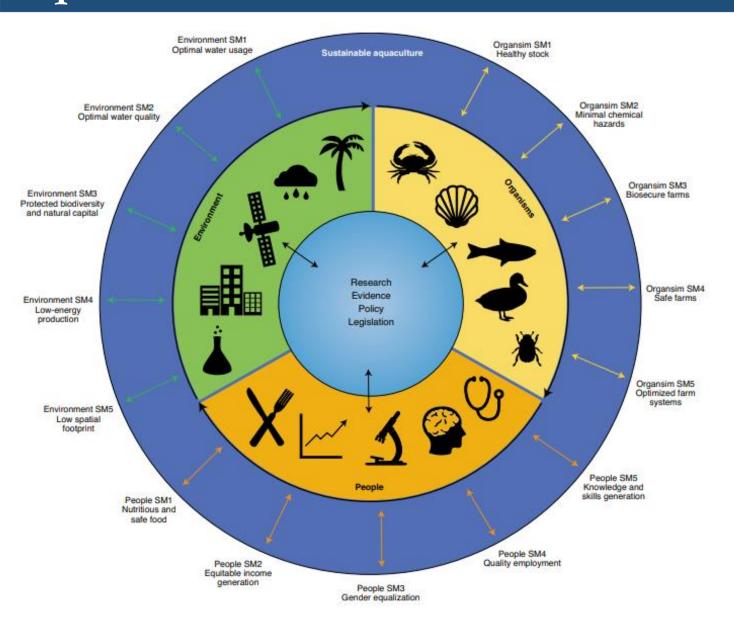




## Aquaculture & One Health







One Health success metrics (SM) for aquaculture enhanced sustainable production (ESP)





PERSPECTIVE

## Sustainable aquaculture through the One Health lens

G. D. Stentiford<sup>®</sup>, I. J. Bateman<sup>®</sup>, S. J. Hinchliffe<sup>®</sup>, P. Bass<sup>1,2</sup>, R. Hartnell<sup>5</sup>, E. M. Santos<sup>®</sup>, M. J. Devlin<sup>®</sup>, S. W. Feist<sup>1</sup>, N. G. H. Taylor<sup>1,2</sup>, D. W. Verner-Jeffreys<sup>1,2</sup>, R. van Aerle<sup>®</sup>, P. E. J. Peeler<sup>1,2</sup>, W. A. Higman<sup>1</sup>, L. Smith<sup>1</sup>, R. Baines<sup>1</sup>, D. C. Behringer<sup>®</sup>, I. Katsiadaki<sup>1,2</sup>, H. E. Froehlich<sup>10,11</sup> and C. R. Tyler<sup>2,6</sup>



## Fishvet-dialogue

Aquaculture is regulated by several different authorities and regulations



Enhancing collaboration by engaging stakeholders and establishing public-private partnerships (PPPs)



## A fluctuating environment







Years
Season
Diurnal
Tidal currents

Thermoclines
Haloclines
Water velocity
Depth

Oxygen consumption

Metabolic products

Water current



## The outcomes of the event

- 1.Increased knowledge of new fish diseases: participants left the workshop with an enriched understanding of emerging fish diseases, facilitating early detection, prevention, and effective management.
- 2.Enhanced awareness of welfare in aquaculture: the workshop emphasized the significance of animal welfare in aquaculture practices, encouraging the development of more humane and sustainable systems.
- 3.Improved aquaculture health management: a better understanding of health management in aquaculture allows participants to make informed decisions, develop effective strategies, and ensure the welfare of aquatic animals.

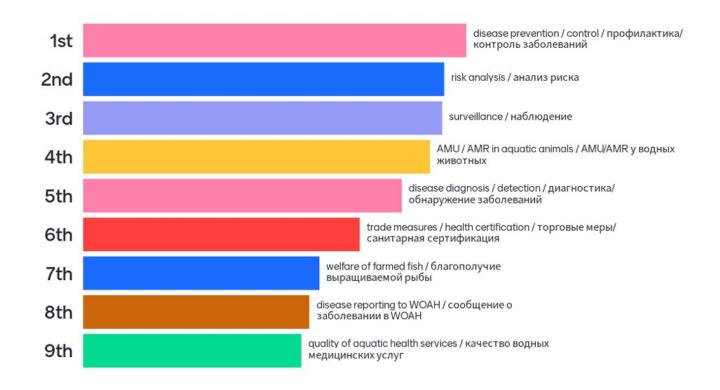
## The outcomes of the event

The workshop yielded a range of positive outcomes, significantly advancing the field of aquaculture:

- 1.Strengthened knowledge of biosecurity: biosecurity is a critical component of disease prevention. The workshop provided participants with insights into biosecurity measures to protect aquatic animals from diseases.
- 2.Heightened focus on AMR issues: addressing AMR is vital for the long-term sustainability of aquaculture. Participants gained knowledge about responsible antimicrobial use and strategies to combat AMR.
- 3.Implementation of best practices: the workshop encouraged the implementation of best practices, enabling countries to enhance the efficiency, sustainability, and resilience of their aquaculture sectors.
- 4. Fostering knowledge sharing: the event served as a platform for national Focal Points to share knowledge, experiences, and best practices, fostering international cooperation and collaboration.



# Please rank the priority for AAHS training you would like to have available from WOAH:





- To avoid movement of animals as the main biosecurity measures to apply
- To have an adequate budget for the laboratories
- To have a supporting legislation for depopulation of animals and for compensation
- To create a network to improve and share knowledge



World Organisation for Animal Health

Founded in 1924

Organisation mondiale de la santé animale

en 1924

Organización Mundial de Sanidad Animal

Fundada en 1924











**TARGET** 

Share Information Workshops

Training

Projects

Reach the Donors