

# Institute report: training on prevention. Successful report of projects.

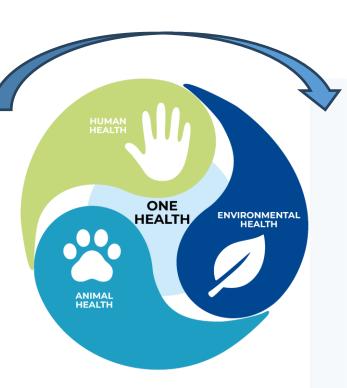
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Regional Workshop for WOAH National Focal Points for Aquatic Animals V Cycle Alesund (Norway) September 3-5, 2025

### **TRAINING**





## **PROJECTS**



### **PREVENTION**





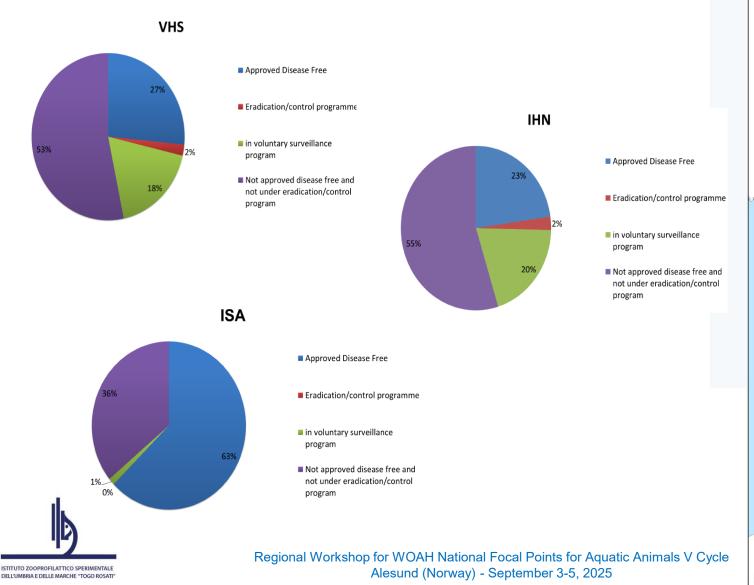




Health situation of aquaculture establishments in

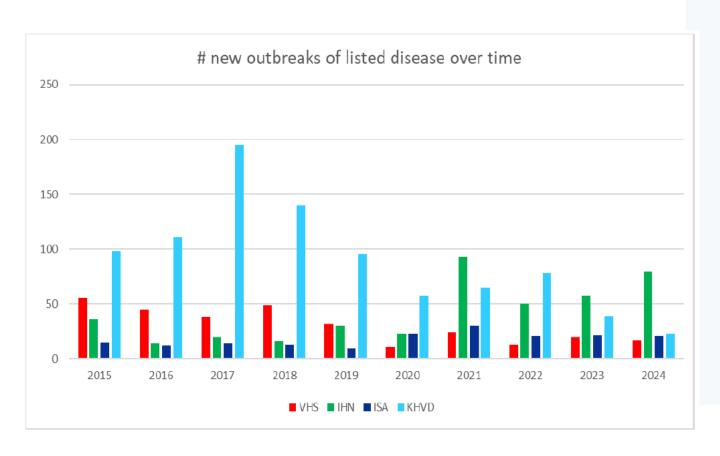
Europe







## Disease outbreaks in Europe in 2024



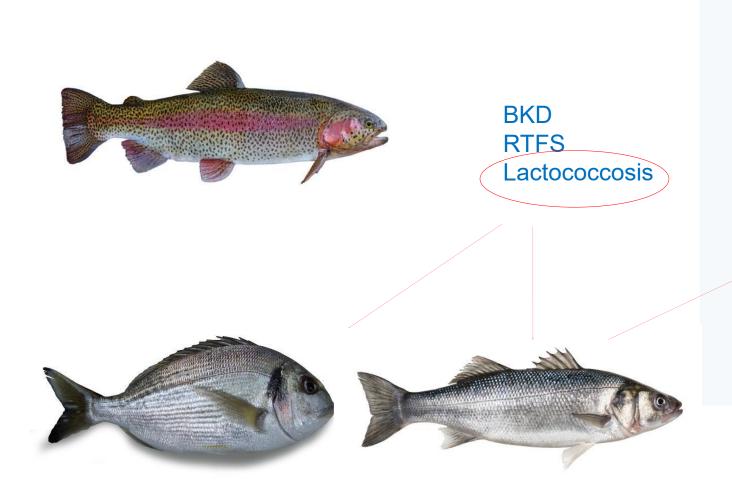
#### KHV

- 9 countries with eradication programs
- 1 Member State officially free
- Free zones and compartments in Italy and Germany
- National surveillance programs in Bulgaria, Lithuania, and North Macedonia



From A. Marsella - IZSVe, 2025

## Other sanitary problems in European farmed fish





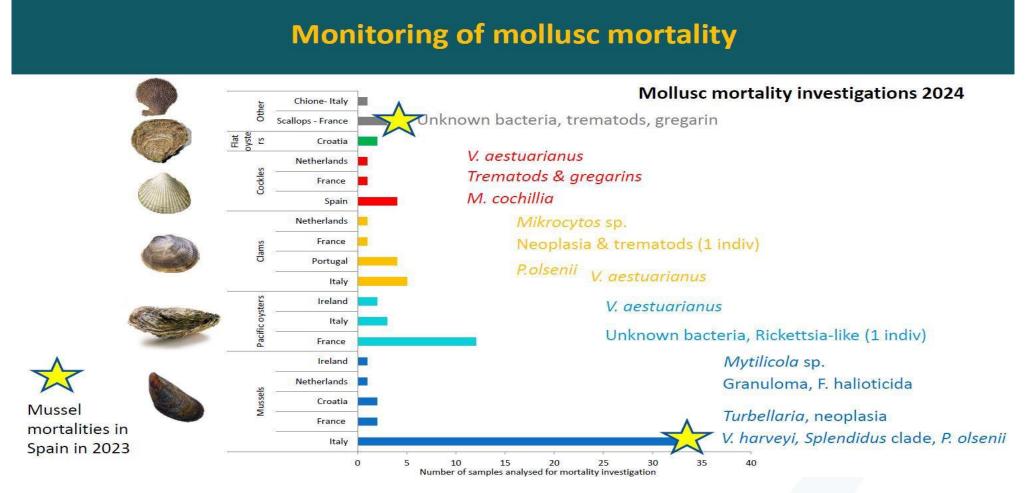
#### Infection by:

- A. veronii
- V. harveyi
- Sparicotyle spp.
- L. garvieae



From A. Marsella – IZSVe, 2025

## Mollusc - Synthesis of main epidemiological facts in 2024



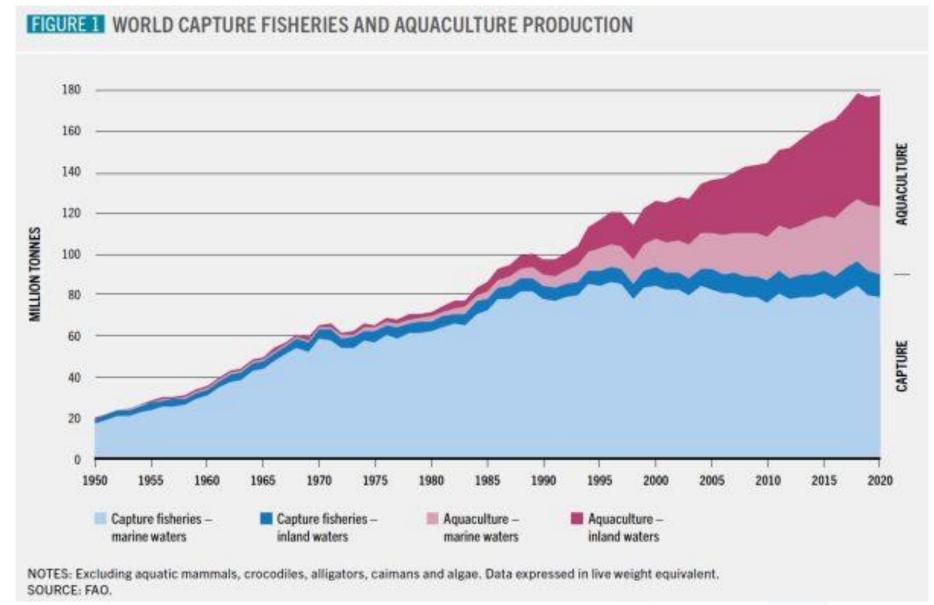


From A. Vetri – IZSVe, 2025

Crustaceans - Synthesis of main epidemiological facts in 2024

Country	Diagnostics	Diagnostic samples	Positive tests
Croatia	Aphanomyces	12	0
Finland	WSSV	5	0
	Aphanomyces	12	8
Germany	WSSV	19	0
	Aphanomyces	201	29
Ireland	WSSV	9	0
	Aphanomyces	9	2
Italy	WSSV	26	0
	Aphanomyces	27	9
	Thelohania contejeani	19	15
	Hematodinium	117	16
Norway	WSSV	1	0
	Aphanomyces	12	3
Netherlands	Aphanomyces	10	0
Serbia	Aphanomyces	2	0
Slovakia	Aphanomyces	1	0
Switzerland	Aphanomyces	46	19
Sweden	WSSV	113	0
	TSV	1	0
	YHV	1	0
	Aphanomyces	147	10



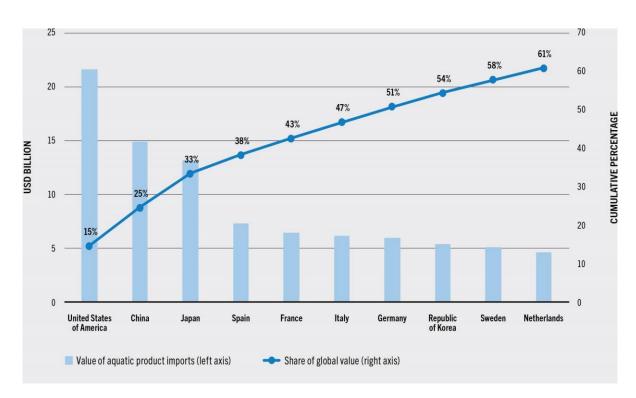


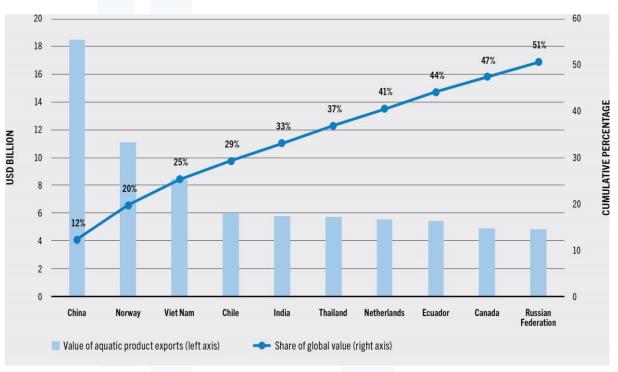




# TOP TEN IMPORTING COUNTRIES OF AQUATIC PRODUCTS BY VALUE, 2020

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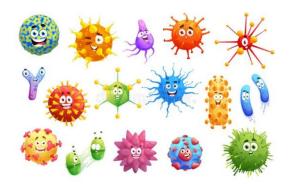


From: The State of World Fisheries and Aquaculture 2022 – FAO Report



# Different health legislation systems





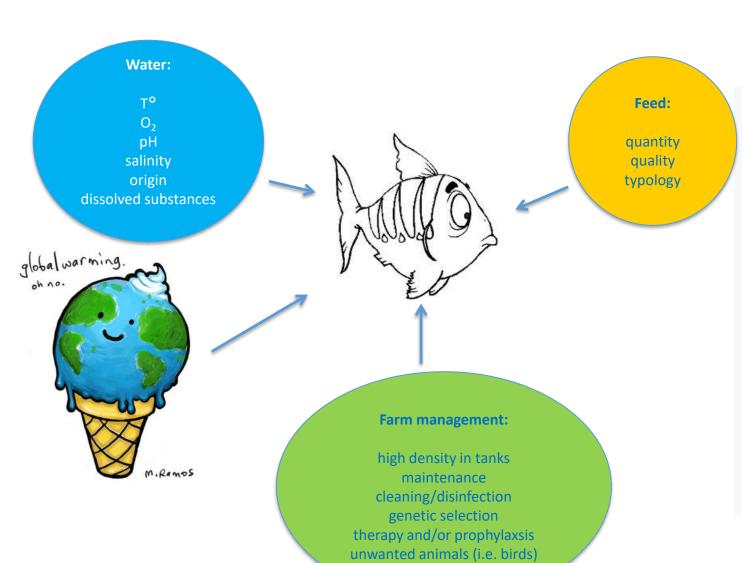
New o re-emerging pathogens



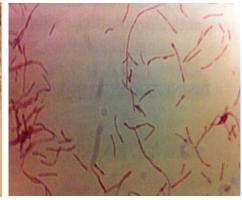




IT IS NECESSARY TO STANDARDIZE AS MUCH AS POSSIBLE!

















# Prevention – Training – Projects - Standardization





Field training for farmers and local veterinary services



Knowledge of different realities

Sharing common problems

Birth of project ideas

Regional Workshop for WOAH National Focal Points for Aquatic Animals V Cycle
Alesund (Norway) - September 3-5, 2025



# Italian Ministry of Foreign Affairs and International Cooperation

#### CALL FOR JOINT ACTIONS AND PROGRAMMES IN THE FRAMEWORK OF THE

MEMORANDUM OF UNDERSTANDING ON COOPERATION IN FIELDS OF SCIENCE, TECHNOLOGY AND INNOVATION 2025-2027



BETWEEN

ITALY – UZBEKISTAN



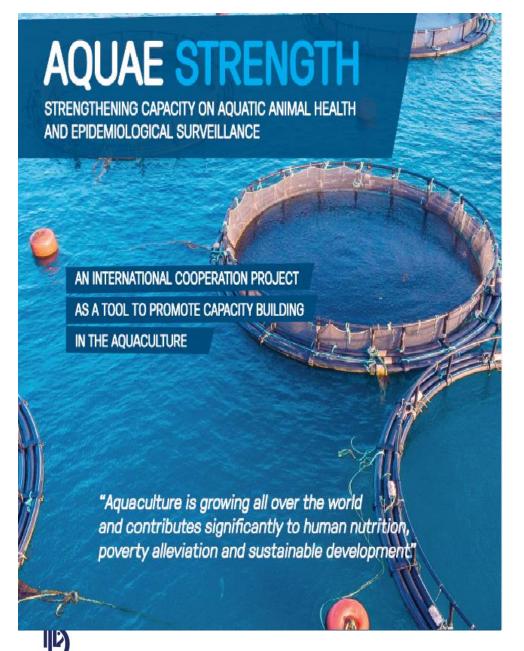
Project: Strengthening in the Management and Diagnosis of Diseases Affecting

Aquaculture Fish Species in Uzbekistan



Objective: Reinforce the system for managing and diagnosing diseases affecting fish species in Uzbekistan by developing specialized diagnostic protocols, manufacturing autogenous vaccines, and training local personnel in contemporary diagnostic and preventive methods.

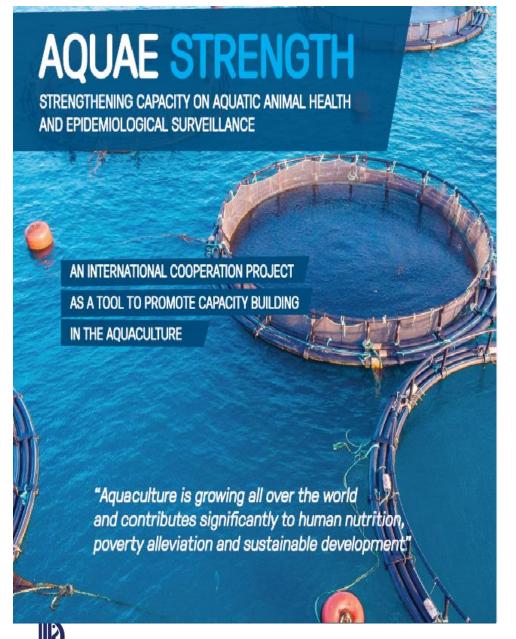




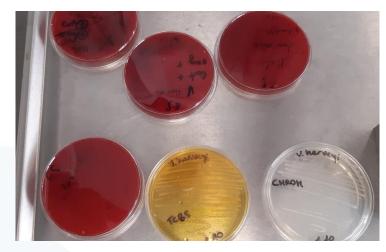


















# Project: "Integrated strategies for reduction of the use of the drug in aquaculture" financed by Italian Ministry of Agricultural, Food and Forestry Policies (PO FEAMP 2014-2020 MIPAAF)













Enhance the possibilities of using autogenous vaccines, which in many cases represent the only real alternative to the use of antimicrobials



#### Project: "Dietary supplementation with olive mill waste in farmed fish" - RC2021 financed by Italian Ministry of Health











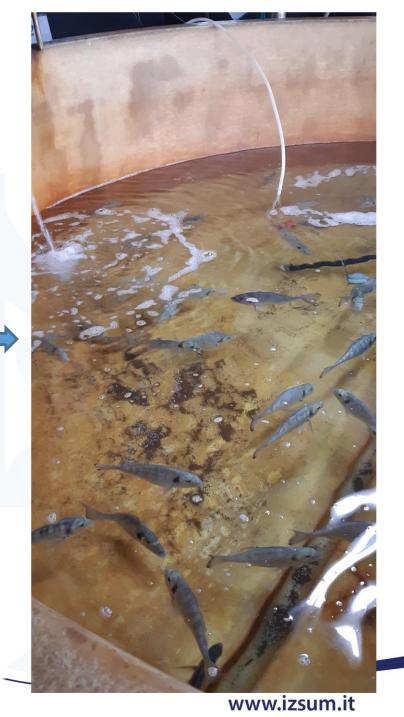


- 1) evaluate the possibility of integrating the diet with polyphenolic extracts from vegetation waters and the effects on production performance, of fish (sea bream, Sparus aurata);
- 2) evaluate the effects on animal welfare and immune response;
- 3) estimate the presence of polyphenols in feed and in the meat of fish subjected to a controlled diet and their effects on the oxidative status.



possibility of reducing drugs in aquaculture

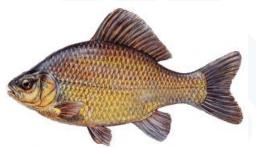




Let's not forget the final consumer...

Project: "New water-born zoonoses: molecular diagnostic screening of fish products, potential carriers and bioindicators of re-emerging zoonotic pathogens" - RC2024 financed by Italian Ministry of Health





Carassius carassius







Anodonta spp.



Tinca tinca

Aims: perform an epidemiological-diagnostic screening with highly sensitive molecular approaches aimed at the detection/quantification, even in traces, of re-emerging pathogens as *Toxoplasma* spp. and *Leptospira* spp. in lake fish and molluscs.



An effective health prevention program can be developed through a combination of innovative research projects aimed at understanding the causes of health problems and training activities aimed at providing professionals in the sector with the skills necessary to implement evidence-based prevention strategies and promote behaviors in the final consumer.







Thanks for your attention!