

Feedback and Comments of the AQMENET Survey



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AQMENET Capacity Building Workshop 2025 (National Aquatic Focal Points Training) Jeddah 26-29 October 2025





Introduction

- During the last meeting in Dhahran (June 5 & 6, 2023) the SC approved to develope a questionnaire/survey
- The three experts (Technical Committe) involved were
- Dr Saraya Tavornpanich WOAH Collaborating Centre for Epidemiology and Risk Assessment
 — National Veterinary Institute Norway
- **Dr. Edmund Peeler** (WOAH Collaborating Centre-Cefas-UK)
- Dr. Amedeo Manfrin (WOAH Reference Laboratory for Viral Encephalopathy and Retinopathy-Italy)







Introduction

- The first draft was ready at the end of 2023 and revised in June 2024
- Dr. Faycal Meziani and his staff transformed the questionnaire into a very easy-to-use (despite 183 questions) online version that made data processing much easier for us.
- The final version has been distributed online to AQMENET partners in June 2025 in agreement with some Dr. Faycal Meziani suggestions/additions.
- On last August 25 Rita Rizk sent to me the last updated version of the AQMENET survey answers.
- Last September we started to analyze the answers/results.....thanks to a IZSVe statistician who helped me.





Questionnaire structure

(you are welcome to attach a table or a flow chart of 1 page maximum)

AQMENET-AQUATIC MIDDLE EAST NETWO	RK
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Please answer the following questions as accurately as possible and then return to the technical expert (manfrin@izsvenezie.it). (the aim of this questionnaire is to have only a general overview of your country without any legal constraints—all information are confidential and restricted only to AQMENET members/experts. A summary of aggregated results will be generated but no country identifiers will be released.))

Contact information

Name	Surname
Phone	Email
Position	
Institution	
Address	

AQMENET-AQUATIC MIDDLE EAST NETWORK

Governance and Competent Authority

What is the name of the Competent Authority for aquatic animal health and welfare in your country?

- Ministry of Agriculture
- Ministry of Fisheries
- Other (please specify):

Which department/agency is responsible for implementing regulations related to aquatic animal health and welfare?

Who coordinates communication between the WOAH Delegate, Focal Point for aquatic animals, and the Competent Authority?

How frequently does the WOAH Delegate and Focal Point communicate with the Competent Authority regarding aquatic animal health?

- Weekly
- Monthly

Ougetoels





Questionnaire structure

AQMENET-AQUATIC MIDDLE EAST NETWORK

Technical and Operational Aspects

1) Please indicate in which environments and which categories of aquatic animals are farmed (tick box):

	Environmennt			
	Freshwater	Brackish	Marine	
Finfish				
Crustaceans				
Molluscs				
Amphibians				

1) Please provide updated data on Aquatic Animals – AAs (fish, mollusc and crustacean) production (top 3-5 farmed species by volume) and number of farms (if available); insert 'N/A' if information is not available)

AQMENET-AQUATIC MIDDLE EAST NETWORK

Aquatic Animal Health Laboratory Assessment

NATIONAL REFERENCE LABORATORY INFORMATION			
Laboratory name			
Address			
Contact person		Role/qualification	

Email

22) How many people are currently employed in the laboratory?

Phone





Online questionnaire

AQMENET - AQUATIC MIDDLE EAST NETWORK SURVEY

Please answer the following questions as accurately as possible and then return to the technical expert (amanfrin@izsvenezie.it (the aim of this questionnaire is to have only a general overview of your country without any legal constraints—all information are confidential and restricted only to AQMENET members/experts and WOAH internal use. A summary of aggregated results will be generated, but no country identifiers will be released.)

Quando invii questo modulo, non raccoglierà automaticamente i tuoi dettagli, come il nome e l'indirizzo di posta elettronica, a meno che non lo fornisci tu stesso.

Contact information

1. Name

Amedeo Manfrin Italy

<u>AQMENET - AQUATIC MIDDLE EAST NETWORK SURVEY</u>

Governance and Competent Authority

7. What is the name of the Competent Authority for aquatic animal health and welfare in your country?

Ministry of Agricultur
, ,

- Ministry of Fisheries
- Other (please specify): Ministry of health
- (Altro



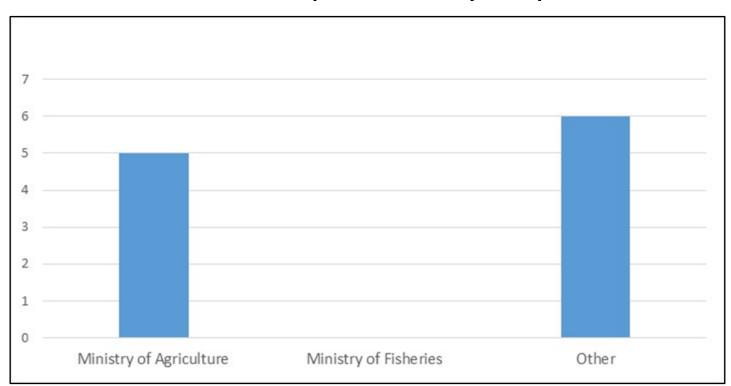


Results/answers



- 11 partners answered
- In some countries (Egypt and Djibouti) more than one contact point answered but we merged the information

Which is the name of the Competent Authority for aquatic animal health and welfare in your country?



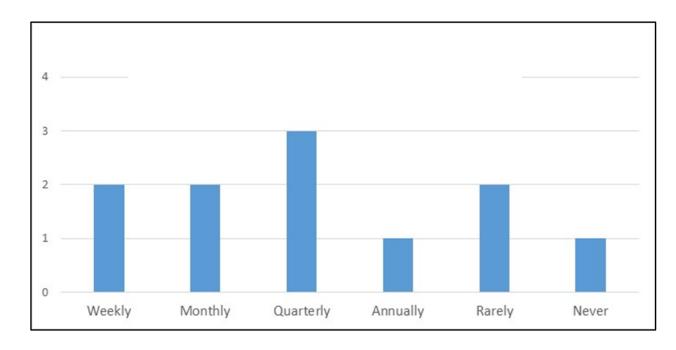
OTHER

- Ministry of Environment, Water and Agriculture (MEWA);
- Ministry of Agriculture, Fisheries
 Wealth and Water Resources;
- Ministry of animal rescue;
- Ministry of climate change and environment;
- Supreme concil for Environment;
 Ministry of Livestock, forestry and Range

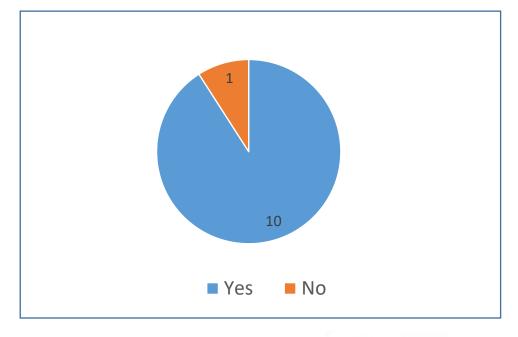




How frequently does the WOAH Delegate and Focal Point communicate with the Competent Authority regarding aquatic animal health?



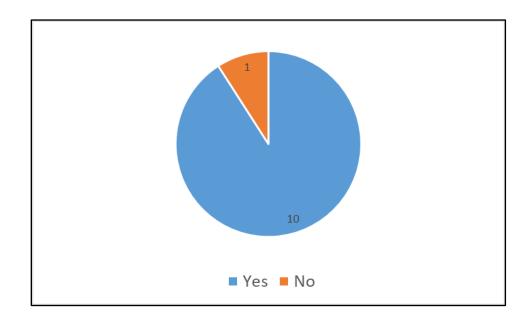
Does your country have national legislation addressing aquatic animal health and welfare?



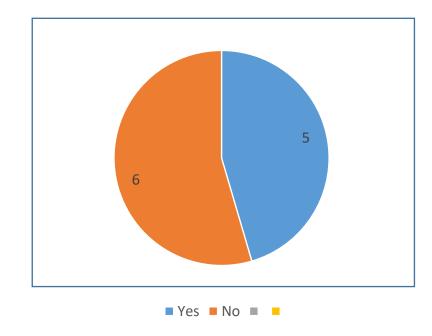




 Does your country follow international standards set by the WOAH in regulating aquatic animal health?

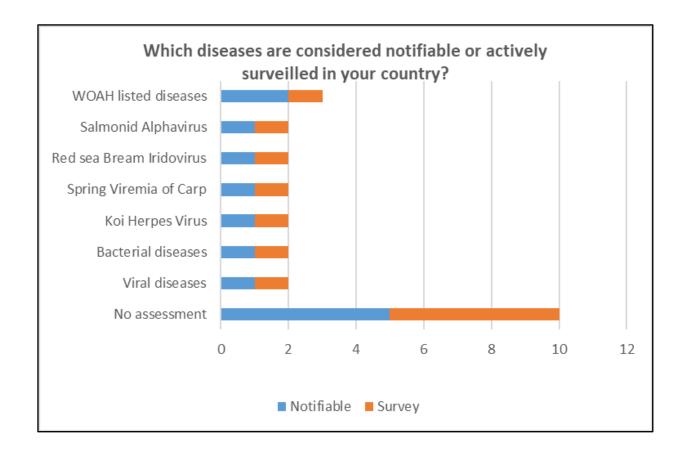


Is there any legislation addressing the control of emerging aquatic diseases?



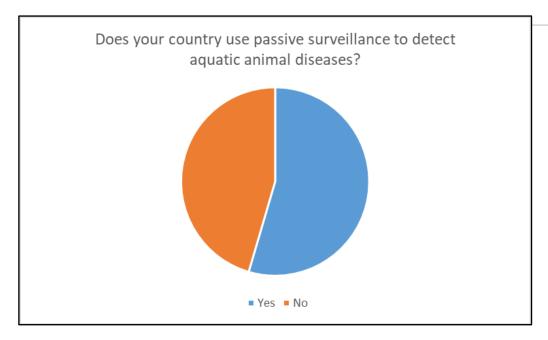


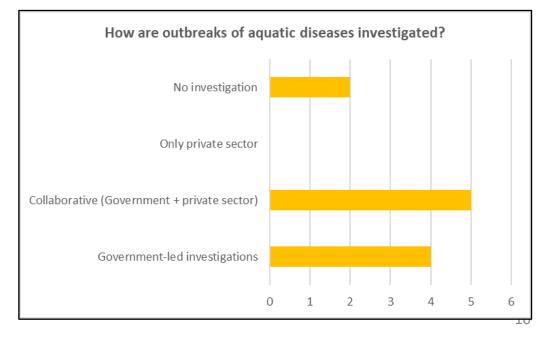


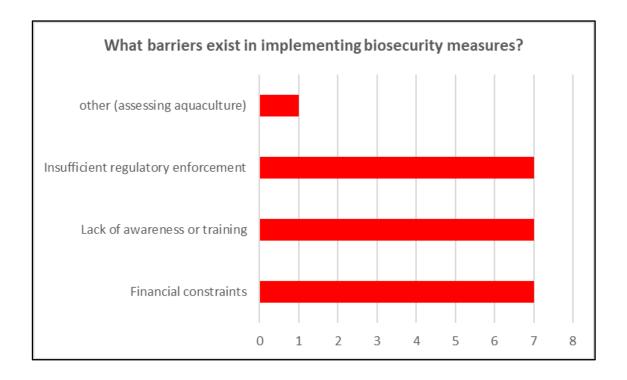


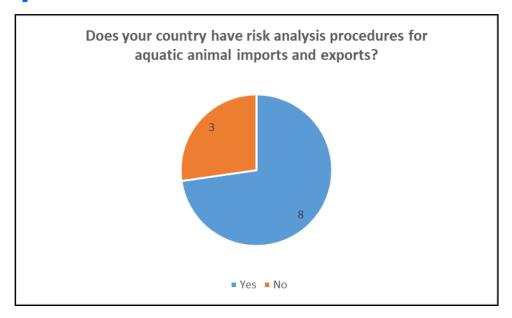


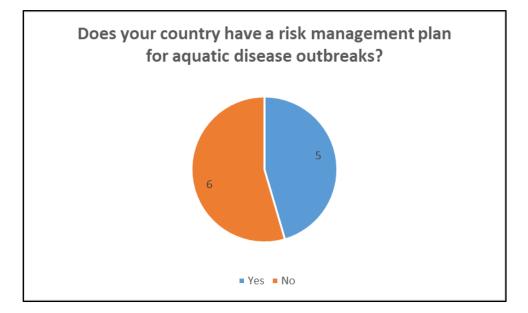
















Critical questions....multiple answers

What are the key requirements for importing aquatic animals into your country?

According to WOAH Code

Depending on the regulations of the Ministry of Trade and Ministry of Agriculture

Imported **seafood products** must comply with international sanitary standards, etc.

The live aquatic animals should have an issued health certificate

Only species approved by the Competent Authority are allowed to be imported.

You must obtain an import permit from the Fish Farm Directorate

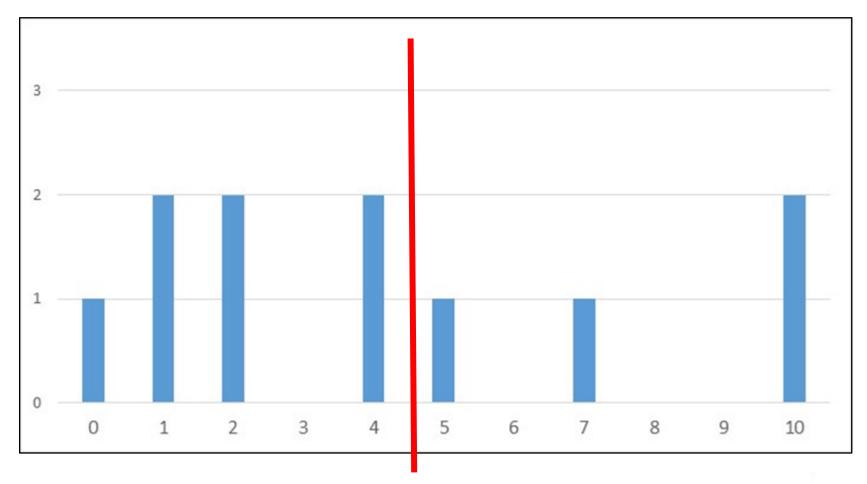
Before Importing aquatic animals must be from disease free country

Only SPF (Specific Pathogen-Free) broodstock must be imported





How is your country prepared for an aquatic animal health emergency?



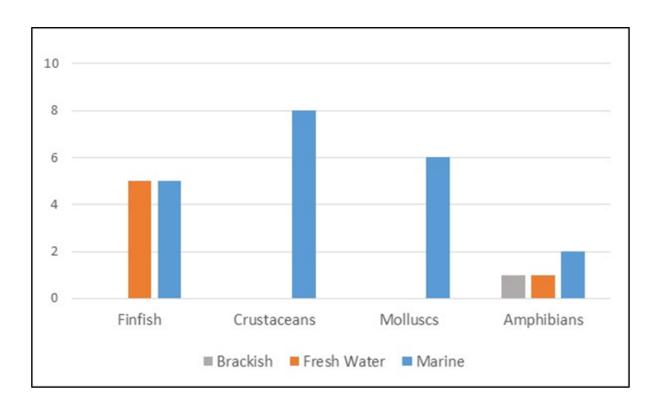
- 4 prepared
- 7 not or low prepared



(Scale: 1 = Not Prepared, 10 = Very Prepared)



Please indicate in which environments aquatic animals are usually farmed

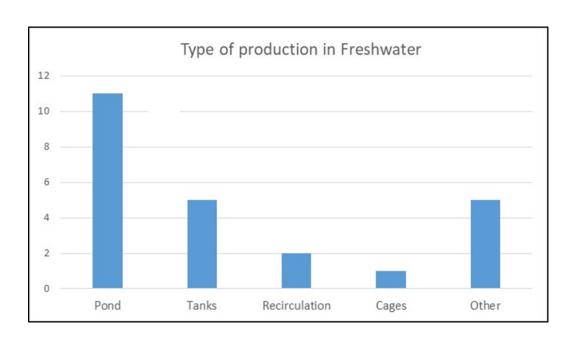


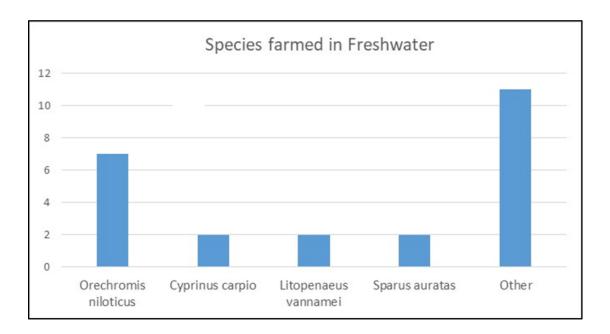








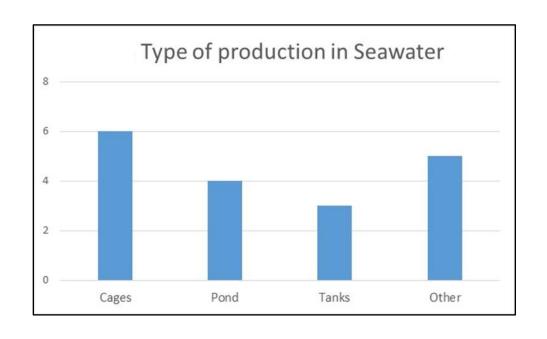


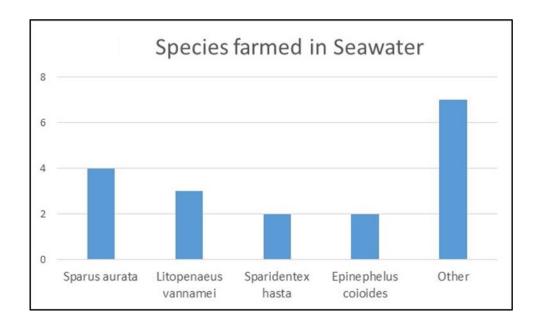


Other species (7): Acipenser sp; Barbus sharpeyi; Clarias gariepinus; Ctenopharyngodon idella; **Epinephelus coioides**; Hypophthalmichthys molitrix; **Lates calcarifer**; **Parapeneus longirostris**; Sparidentex hasta; **Omaniti abalone**





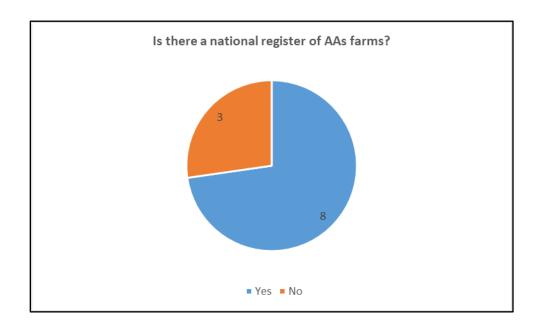


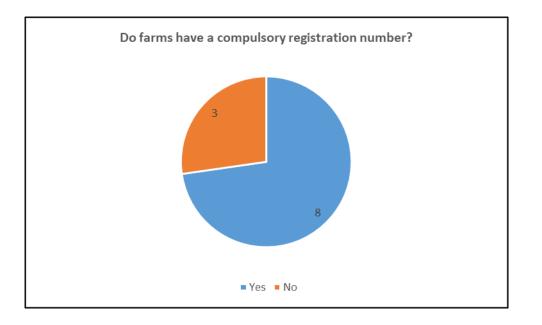


Other species(): *Crassostrea gigas*; *Dicentrarchus labrax*; *Epinephelus spp.*; *Haliotis mariae*; *Lates calcarifer*; *Mugil sp.*; *Oreochromis niloticus*??



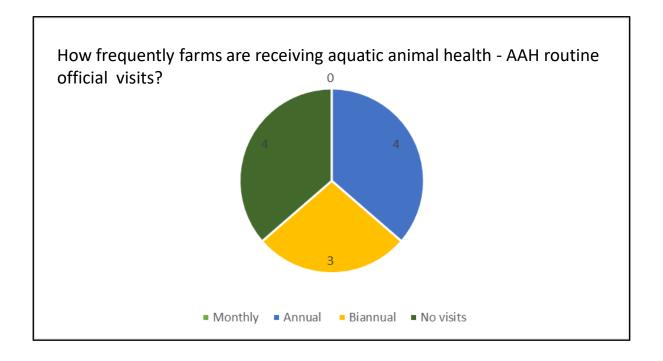










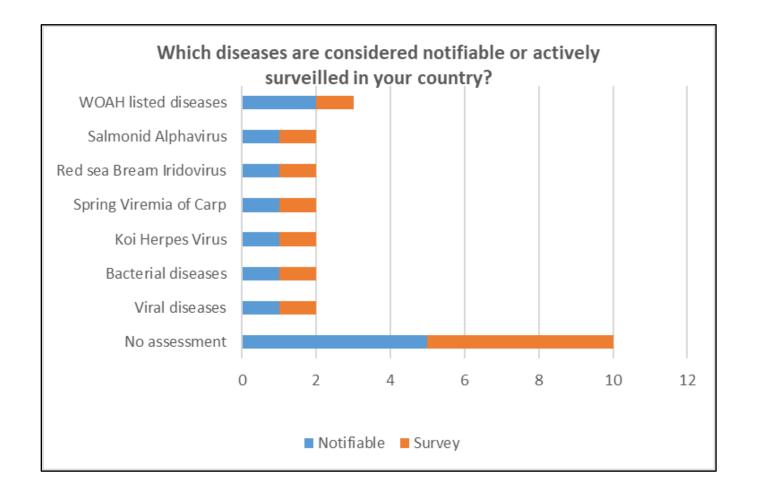








Main diseases in your country



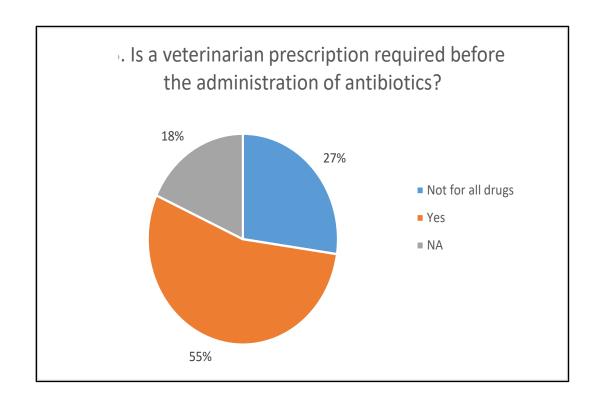


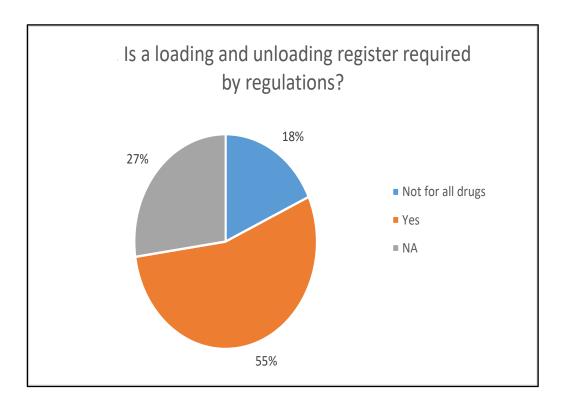






Therapy and vaccination





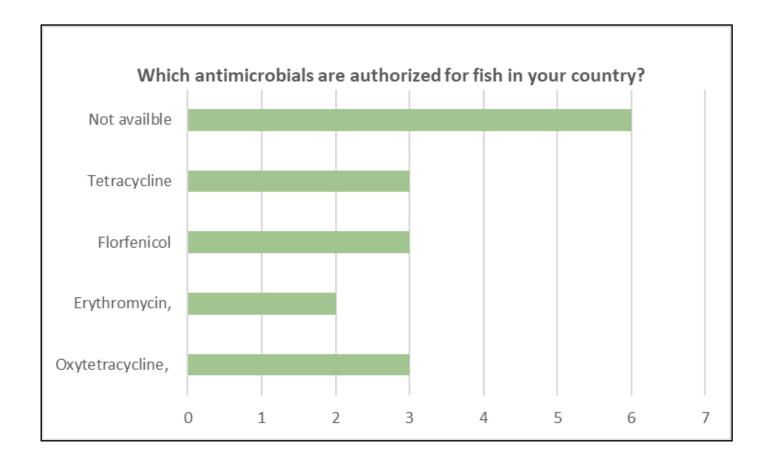








The use of antimicrobials in aquatic animals



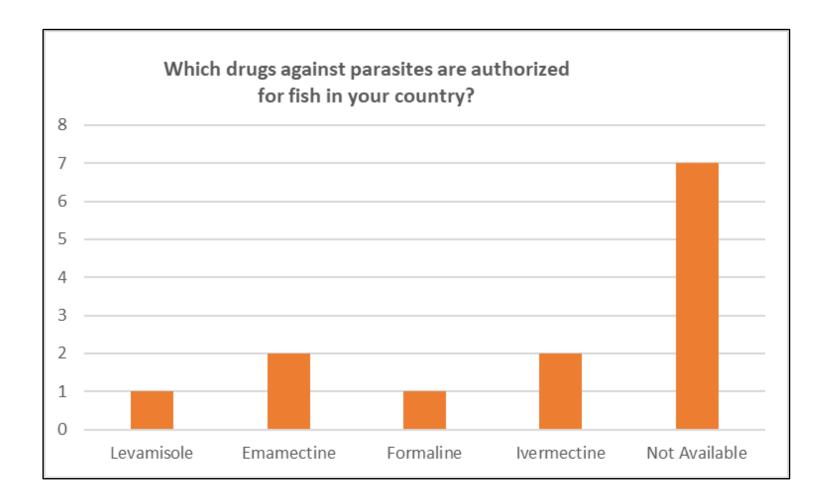
One country listed about 40 molecules including Marbofloxacin and Ciprofloxacin which are Critically Important Antimicrobials - CIA







The use of chemicals against parasites







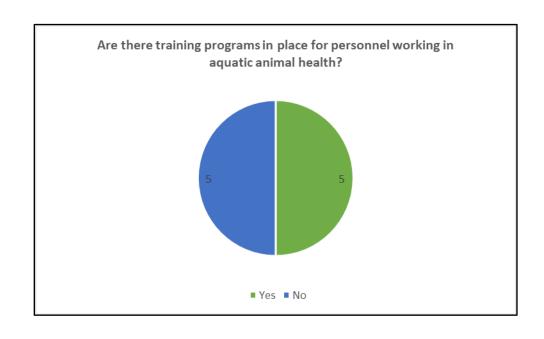


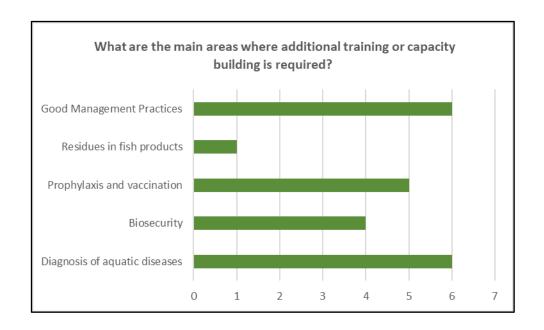
The use of chemicals and drugs in aquaculture

	No	Yes	NA	%Yes
Are disinfectants				
authorized to be				
used to treat ill				
animals?	4	4	3	36,4%
Is there a National				
Surveillance				
Residues Plan for				
aquatic animal				
products in force in				
your country?	4	4	3	36,4%
Which vaccines are				
used? Commercial?	5	1	5	9,1%
Which vaccines are				
used? Autogenous?	5	1	5	9,1%



Lack of specific training on aquatic Animal Health



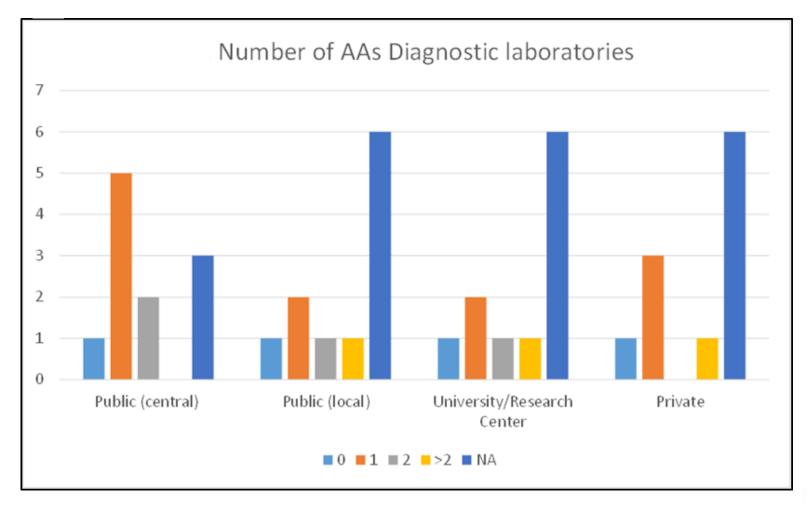


Important critical point but at the same time an opportunity to be exploited...see also slide 30





Aquatic Animal Health Laboratory Assessment







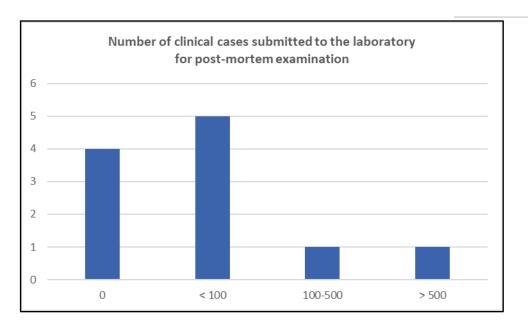
Laboratory assessment (necropsy)

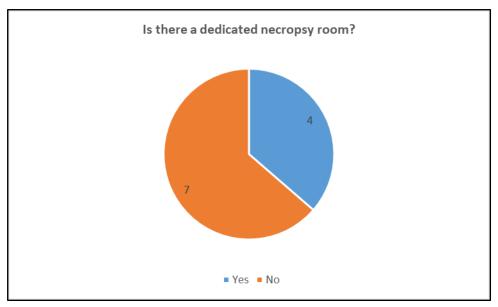


Only 1 veterinarian in Lab 2

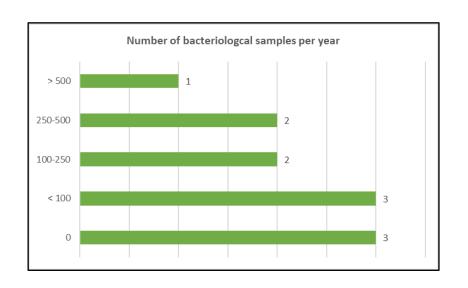


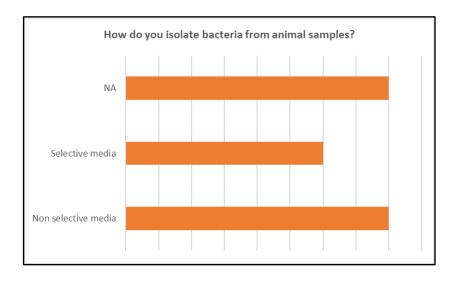


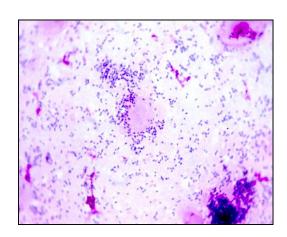


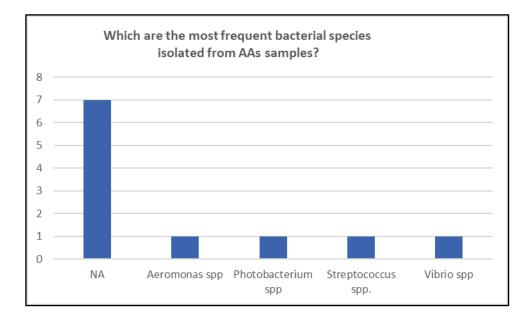


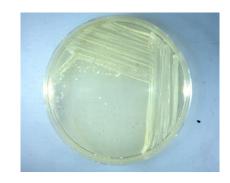
Laboratory assessment (bacteriology)







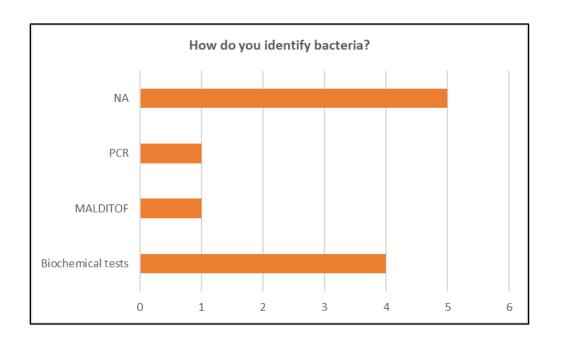


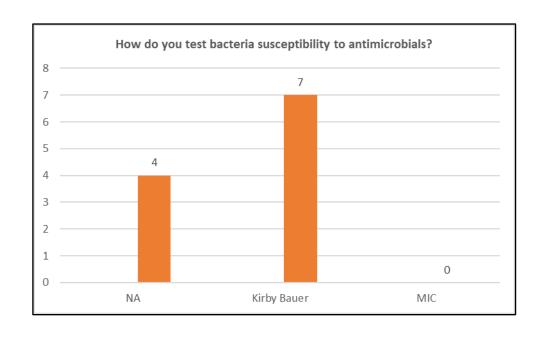


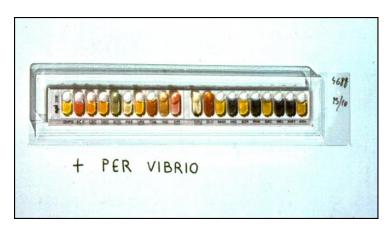


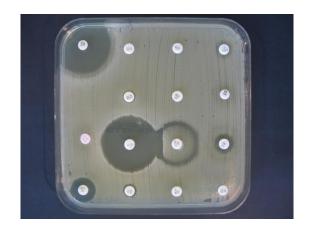


Laboratory assessment (bacteriology)





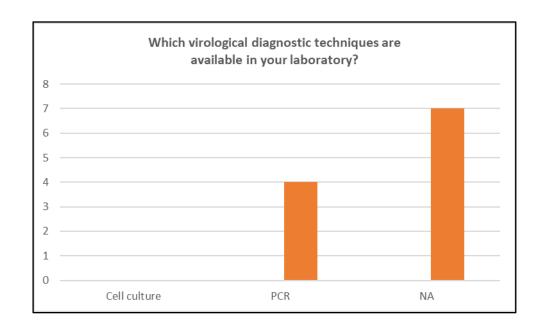


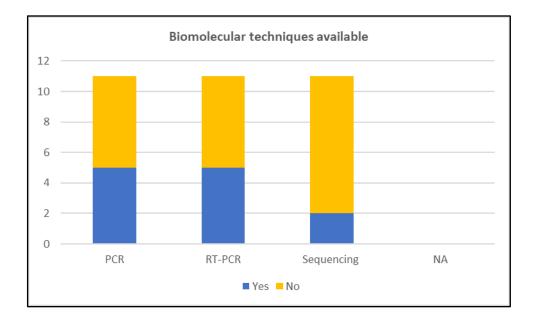


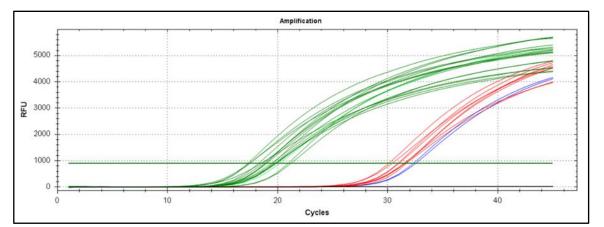




Virology laboratory











Final conclusion

- General situation good, but many labs with little experience with aquatic animals.
- More or less 10 fish/crustacean species are farmed in AQMENET partner countries.
- Mainly bacterial diseases.
- Lack of familiarity with the quality system (reduced number of SOPs, only few positive/negative control available, poor maintenance of equipment.
- Staff needs "training on the job" so twinning projects with more experienced lab (CEFAS; IZSVe, NVI or other reference/collaborating centres) are welcome







