



# Updates on the Regional Collaboration Framework on Aquatic Animal Health in Asia and the Pacific

1<sup>st</sup> December 2021



Organisation  
Mondiale  
de la Santé  
Animale

World  
Organisation  
for Animal  
Health

Organización  
Mundial  
de Sanidad  
Animal

# Background

- More emerging disease
- **No coordination mechanism** existing in the region;
- Need to improve transparency of aquatic animal disease information.
- OIE launched its first **Aquatic Animal Health Strategy** in May 2021

**Need a regional collaboration framework**

To strengthen collaboration among and between OIE Reference Centres and Member Countries in the region;

To Share and exchange information on test validation, reference materials and positive samples.



# Regional Collaboration Framework on Aquatic Animal Health in Asia and the Pacific

## • **Members** of the Regional Collaboration Framework

- **Permanent members**
- Governments;
- OIE Reference Centres;
- Regional organizations (i.e. FAO, NACA and SEAFDEC);
- National labs focus on national aquatic animal disease surveillance.
- **Members engaged on ad hoc basis**
- Private sector;
- Research institutions;
- Donors;
- Associations.

## • **Subject to be focused**

(By order of importance that agreed by the ad hoc steering committee):

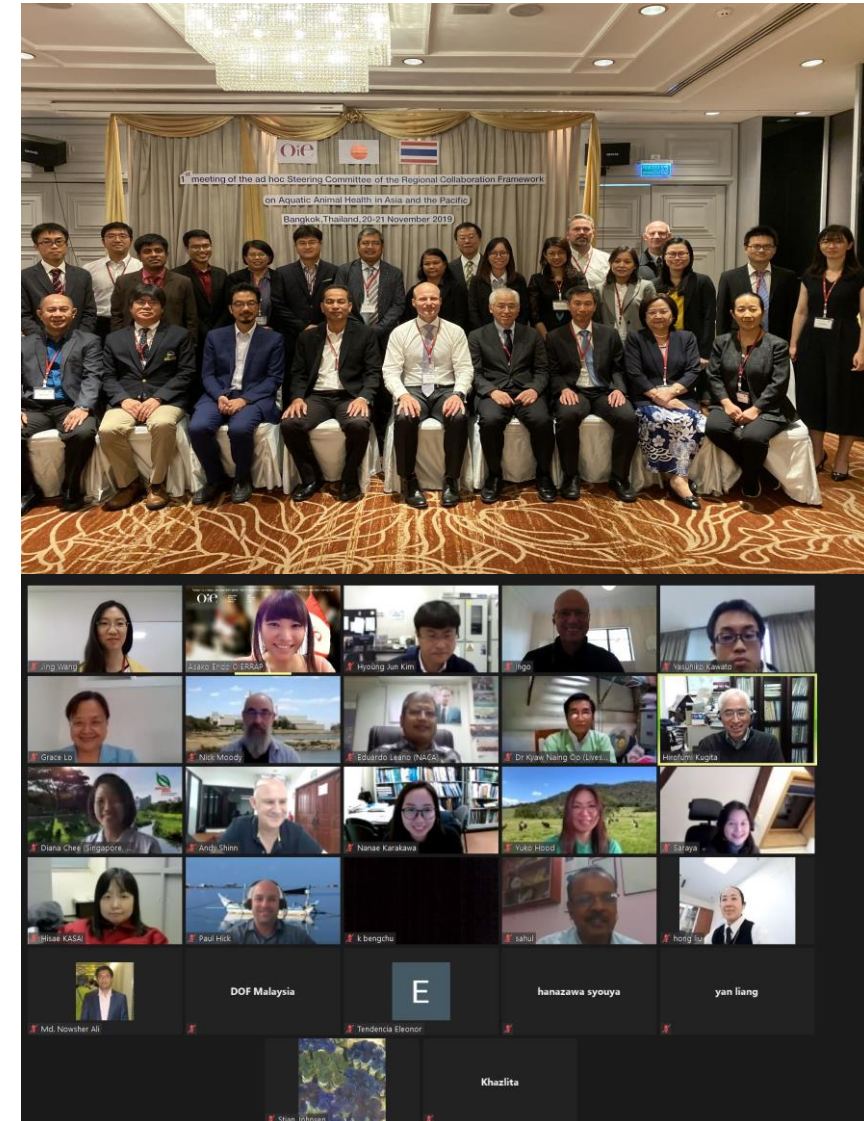
- Disease diagnosis;
- Emergency responses;
- PVS: aquatic;
- Biosecurity and best practice for disease prevention particularly for small-scaled farms;
- Research and Development;
- Big data management.



# Regional Collaboration Framework on Aquatic Animal Health in Asia and the Pacific

## Initial steps;

- Established an *ad hoc* steering committee;
- Ad hoc Steering Committee organized a mapping exercise;
- Steering Committee to draft an annual activities plan (implementing)
- 1st meeting of ad hoc steering committee of the Framework (Nov 2019)
- 2nd teleconference of the ad hoc steering committee
- Experts to develop the CN of the project that they coordinated
- 2nd meeting of the ad hoc steering committee of the Framework (Nov 2020)  
Concept Note of two projects were approved by the ad hoc steering committee
- 3rd meeting of the ad hoc steering committee of the Framework (TBC 2021)



# Regional Collaboration Framework on AAH – Flagship activities

## Collection and Evaluation of Existing Guidelines and Awareness Materials on Aquaculture Biosecurity for Small-scale Farms in the Asia-Pacific Region; OIE in collaboration with Network of Aquaculture Centres in Asia-Pacific (NACA)

- A project report will be prepared to support Members understand how to utilise the available resources or further improve their regulation, awareness materials and technical guidelines on aquaculture biosecurity



20 January 2021

**Dr. Ahmad Tarmidzi bin Ramly, AMK**  
Director General  
Department of Fisheries, Malaysia  
Wisma Tani, Aras 1 - 6  
Blok Menara 4G2, Presint 4  
Pusat Pentadbiran Kerajaan Persekutuan  
62628 Putrajaya  
MALAYSIA

**Subject: Collection and Evaluation of Existing Guidelines and Awareness Materials on Aquaculture Biosecurity for Small-Scale Farms in the Asia-Pacific Region**

Dear Dr. Ahmad Tarmidzi bin Ramly

The World Organisation for Animal Health (OIE) and the Network of Aquaculture Centres in Asia-Pacific (NACA) are undertaking the abovementioned project in selected countries in the Asia Pacific Region with aquaculture production. The project aims to:

1. Collect and collate available information, existing regulations, and awareness materials on aquaculture biosecurity from the selected countries;
2. Identify gaps and challenges in the implementation of such documents, especially at the farm level; and
3. Develop a report to support Members in understanding how to utilise the available resources or further improve their regulations, awareness materials, and technical guidelines.

In this regard, we are requesting your organization to kindly direct us to the relevant officer(s) in your country responsible for the formulation and implementation of relevant biosecurity regulations and technical guidelines related or referring to the aquaculture sector. Note that any unpublished information provided to us by your country will be for the sole use of the OIE and NACA for reference. Moreover, a copy of relevant reports prepared under this project will be shared to all the participating countries.

We would appreciate your full support to nominate/direct to the officer in charge and share his/her contact details with us.

# Regional Collaboration Framework on AAH – Flagship activities

**Collection and Evaluation of Existing Test Methods for Acute hepatopancreatic necrosis disease (AHPND);** OIE in collaboration with OIE Reference Laboratory for AHPND

- To collect material causing AHPND and AHPND-like disease from the region and evaluate existing test method for AHPND detection
- To collect samples or information to support the Aquatic Animal Health Standards Commission's work on re-evaluating the definition of AHPND;
- To develop and publish a laboratory diagnostic algorithm to address the need in the Asia-Pacific region for AHPND detection

# Regional Collaboration Framework on AAH – Flagship activities

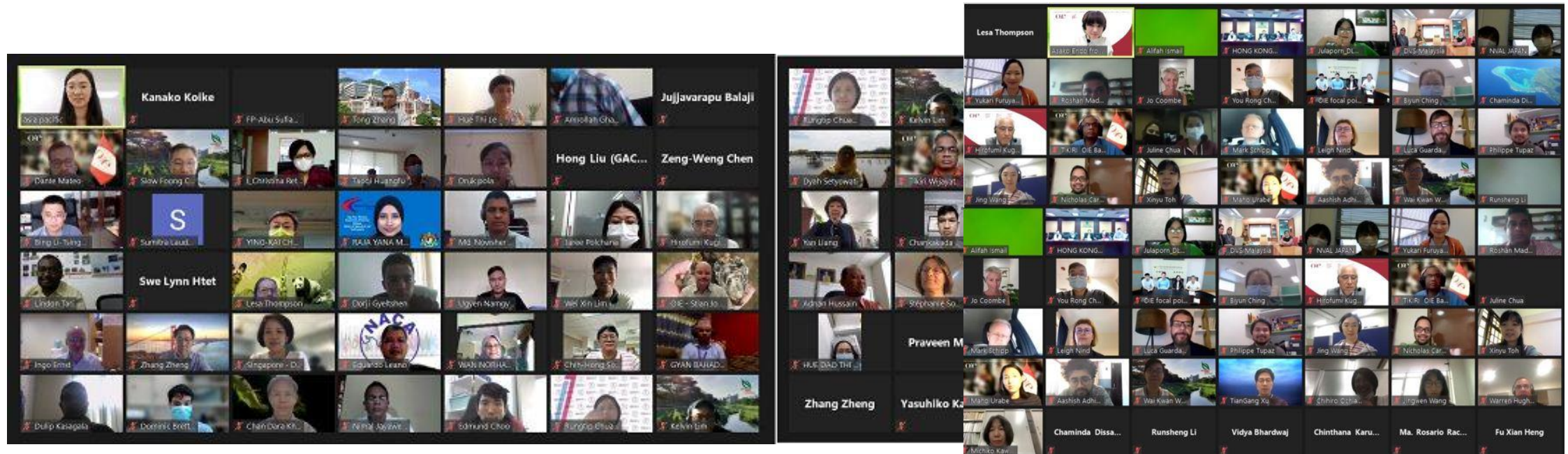
**Regional collaboration to respond to emerging diseases of aquatic animals;** OIE in collaboration with Dr Ingo Ernst, President of Aquatic Animal Health Standard Commission

- Protocol for regional collaboration on emerging diseases
- Identify additional protocol steps to be supported by the scientific network
- Implement arrangements for scientific network responsibilities identified in activity 2



# Regional Collaboration Framework on AAH – Other activities

- **Antimicrobial resistance/antimicrobial use in aquatic animals**  
OIE Virtual Consultation Meeting on Antimicrobial Resistance and Antimicrobial Use in Aquaculture (June 2021)  
Responsible and prudent antimicrobial use (AMU) in aquatic animals in Asia and the Pacific (November 2020)



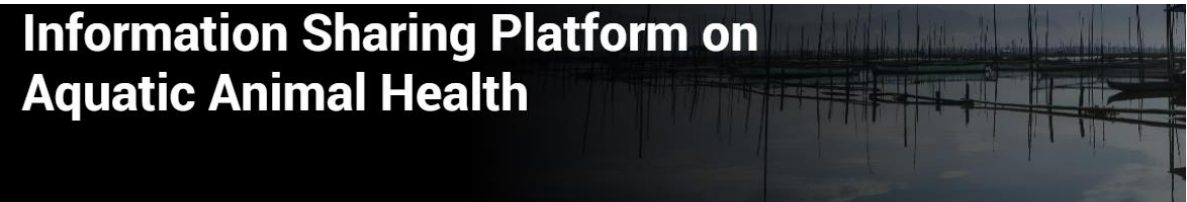


# Regional Collaboration Framework on AAH – Other activities

- Investigation into the current expertise and resources of OIE RCs in the region & Information sharing platform on aquatic animal health

A platform for sharing of training materials and scientific information on aquatic animal health.

Disease	Member	Institution	Contact	Activities				
				Provide reference reagents	Disease confirmation	Provide scientific and technical advice	Other supports	
Acute hepatopancreatic necrosis disease	Chinese Taipei	<a href="#">International Center for the Sustainable Development of Shrimp Aquaculture (ICPSA)</a> <a href="#">National Cheng Kung University (NCKU)</a>	<a href="mailto:icpsa@med.ncku.edu.tw">icpsa@med.ncku.edu.tw</a>	Share reference materials to OIE members if requested	Diagnostic support on ANPND Preparedness technical visit/ field investigation (local in-country)	Follow OIE Reference Lab and CC role	In-country technical visit and field investigation for ANPND	
	Australia	<a href="#">University of Sydney</a> <a href="#">Faculty of Veterinary Science</a>	<a href="mailto:paul.tiolk@sydney.edu.au">paul.tiolk@sydney.edu.au</a>	Positive control for molecular assays and antibodies for use in immunohistochemistry and ELISA	Advice on laboratory essay protocols, histopathological interpretations	* Advice on diagnosis and surveillance for EHNV	Available on request	
Epizootic haematopoietic necrosis	Australia	<a href="#">CSIRO</a> <a href="#">Australian Animal Health Laboratory</a> <a href="#">CSIRO Livestock Industries</a>	<a href="mailto:rick.moore@csiro.au">rick.moore@csiro.au</a>	General collection of isolates Provide materials as part of OIE Ref Lab role	Training General advice Inter-lab testing Confirmatory testing	Follow OIE Reference Lab and CC role	In-country Observation of procedures and training for improvements upon the request of Members Provision of training for detection of specific pathogens at AAHL General laboratories set-up and specific test methods (limited number of participants (3-8) and in-country)	The Australian Government funded the program, currently for 10 pathogens and ~40 laboratories *Requires discussion regarding any expansion of program
	Australia	<a href="#">CSIRO</a> <a href="#">Australian Animal Health Laboratory</a> <a href="#">CSIRO Livestock Industries</a>	<a href="mailto:rick.moore@csiro.au">rick.moore@csiro.au</a>	General collection of isolates Provide materials as part of OIE Ref Lab role	Training General advice Inter-lab testing Confirmatory testing	Follow OIE Reference Lab and CC role	In-country Observation of procedures and training for improvements upon the request of Members Provision of training for detection of specific pathogens at AAHL General laboratories set-up and specific test methods (limited number of participants (3-8) and in-country)	The Australian Government funded the program, currently for 10 pathogens and ~40 laboratories *Requires discussion regarding any expansion of program
Infection with abalone herpesvirus	Australia	<a href="#">CSIRO</a> <a href="#">Australian Animal Health Laboratory</a> <a href="#">CSIRO Livestock Industries</a>	<a href="mailto:rick.moore@csiro.au">rick.moore@csiro.au</a>	General collection of isolates Provide materials as part of OIE Ref Lab role	Training General advice Inter-lab testing Confirmatory testing	Follow OIE Reference Lab and CC role	In-country Observation of procedures and training for improvements upon the request of Members Provision of training for detection of specific pathogens at AAHL General laboratories set-up and specific test methods (limited number of participants (3-8) and in-country)	The Australian Government funded the program, currently for 10 pathogens and ~40 laboratories *Requires discussion regarding any expansion of program
	Australia	<a href="#">University of Sydney</a> <a href="#">Faculty of Veterinary Science</a>	<a href="mailto:paul.tiolk@sydney.edu.au">paul.tiolk@sydney.edu.au</a>	Positive control for molecular assays and antibodies for use in immunohistochemistry and ELISA	Advice on laboratory essay protocols, histopathological interpretations	Advice on diagnosis and surveillance for ranavirus	Available on request	
Infection with ranavirus	Australia	<a href="#">CSIRO</a> <a href="#">Australian Animal Health Laboratory</a> <a href="#">CSIRO Livestock Industries</a>	<a href="mailto:rick.moore@csiro.au">rick.moore@csiro.au</a>	General collection of isolates Provide materials as part of OIE Ref Lab role	Training General advice Inter-lab testing Confirmatory testing	Follow OIE Reference Lab and CC role	In-country Observation of procedures and training for improvements upon the request of Members Provision of training for detection of specific pathogens at AAHL	The Australian Government funded the program, currently for 10 pathogens and ~40 laboratories *Requires discussion regarding any expansion of program
	Australia	<a href="#">University of Sydney</a> <a href="#">Faculty of Veterinary Science</a>	<a href="mailto:paul.tiolk@sydney.edu.au">paul.tiolk@sydney.edu.au</a>	Positive control for molecular assays and antibodies for use in immunohistochemistry and ELISA	Advice on laboratory essay protocols, histopathological interpretations	Advice on diagnosis and surveillance for ranavirus	Available on request	
Infectious haematopoietic necrosis	China	<a href="#">Animal and Plant Inspection and Quarantine Technical Centre</a> <a href="#">Quarantine Entry &amp; Exit Inspections and Quarantine Bureau</a> <a href="#">General Administration of Quality Supervision Inspection and Quarantine (AQSIQ) of P. R. China</a> <a href="#">Maricultural Diseases Control and Metazoan Pathology Laboratory</a> <a href="#">Yellow Sea Fisheries Research Institute</a> <a href="#">Chinese Academy of Fishery Sciences</a> <a href="#">Diagnosis and Training Center for Fish Diseases</a>	<a href="mailto:zcc_zhuhong@aqsiq.gov.cn">zcc_zhuhong@aqsiq.gov.cn</a>	Share reference materials to OIE members if requested	The standard testing protocol for infectious haematopoietic necrosis, carp adenovirus, Spring viraemia of carp and tilapia lake virus.	The standard testing protocol for infectious haematopoietic necrosis, carp adenovirus, Spring viraemia of carp and tilapia lake virus.	Organize laboratory preparedness training for for SVCV, IHNV, TILV and CEV OIE Members upon the request of Members	
	China	<a href="#">Maricultural Diseases Control and Metazoan Pathology Laboratory</a> <a href="#">Yellow Sea Fisheries Research Institute</a> <a href="#">Chinese Academy of Fishery Sciences</a> <a href="#">Diagnosis and Training Center for Fish Diseases</a>	<a href="mailto:zhangli@yfri.ac.cn">zhangli@yfri.ac.cn</a>	Can share/sell reference material samples to OIE members if requested	Field investigation for crustaceans emerging viruses	The standard testing protocol for infectious hypodermal and haematopoietic necrosis virus.	Interested trainee can contact the lab by email for further discussion on the plans and details of training	
Koi herpesvirus disease	Japan	<a href="#">National Research Institute of Aquaculture</a> <a href="#">Japan Fisheries Research and Education Agency</a>	<a href="mailto:tsukakuni@affrc.go.jp">tsukakuni@affrc.go.jp</a>	Provide reference materials to OIE members if requested	Provide reference materials and advice on diagnostic methods upon the request of Members	Disease control measure for KHV	In-country technical visit and field investigation for KHV and RSVV	



## Information Sharing Platform on Aquatic Animal Health

As a follow-up for one of the outcomes of the [OIE Regional Expert Consultation Meeting on Aquatic Animal Disease Diagnosis and Control](#) held in Bangkok, Thailand, from 15 – 16 November 2018, the OIE Regional Representation for Asia and the Pacific (RRAP) has created this webpage to serve as the platform for sharing of training materials and scientific information on aquatic animal health. The information is kindly provided by experts of OIE Reference Centres and are not copyright protected so can be used freely. Kindly note that the OIE RRAP only serves as a sharing platform and does not hold any liability on the information shared.

### Training Materials

Sampling Methods of Histopathology for Fish and Shellfish (Shared by Dr. Miwa Satoshi)  
[http://nria.affrc.go.jp/RCFD/histological-methods\\_e.html](http://nria.affrc.go.jp/RCFD/histological-methods_e.html)

# Regional Collaboration Framework on AAH

## - Other activities

- OIE PVS Aquatic: Virtual Information Session for Asia and the Pacific

Time	Provisional agenda	
	Zoom open	
15:00-15:05	Opening Group photo	Dr Hirofumi Kugita, OIE RRAP
15:05-15:20	Objectives of the meeting Update on current regional situation	<a href="#">Dr Jing Wang, OIE RRAP</a> <a href="#">Dr Maho Urabe, OIE RRAP</a>
15:20-15:30	The OIE Aquatic Animal Health Strategy for 2021-2025	<a href="#">Dr Stian Johnsen, OIE HQ- Standards Department</a>
15:30-15:45	PVS Pathway Overview	<a href="#">Dr Maud Carron, OIE HQ- Capacity-Building Department</a>
15:45-15:55	Q&A	
15:55-16:20	PVS Evaluation missions for AAHS <ul style="list-style-type: none"> <li>• Why request a PVS Aquatic mission; how it can benefit the OIE Members</li> <li>• How to prepare a PVS evaluation</li> <li>• How to manage/implement a PVS evaluation</li> </ul>	<a href="#">Dr Mario Ignacio Algüerno, OIE HQ-Capacity-Building Department</a> <a href="#">Dr Valentyna Sharandak, OIE HQ-Capacity-Building Department</a> <a href="#">Dr Ana Afonso, OIE PVS Expert</a>
16:20-16:40	The OIE PVS: Aquatic Tool - quick overview of the "Critical Competencies"	<a href="#">Dr Ana Afonso, OIE PVS Expert</a>
16:40-16:55	Q&A	
16:55-17:00	Closing and next steps	OIE RRAP
17:00	Close	





**Thank you for  
your attention!**



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