



World Organisation
for Animal Health
Founded as OIE

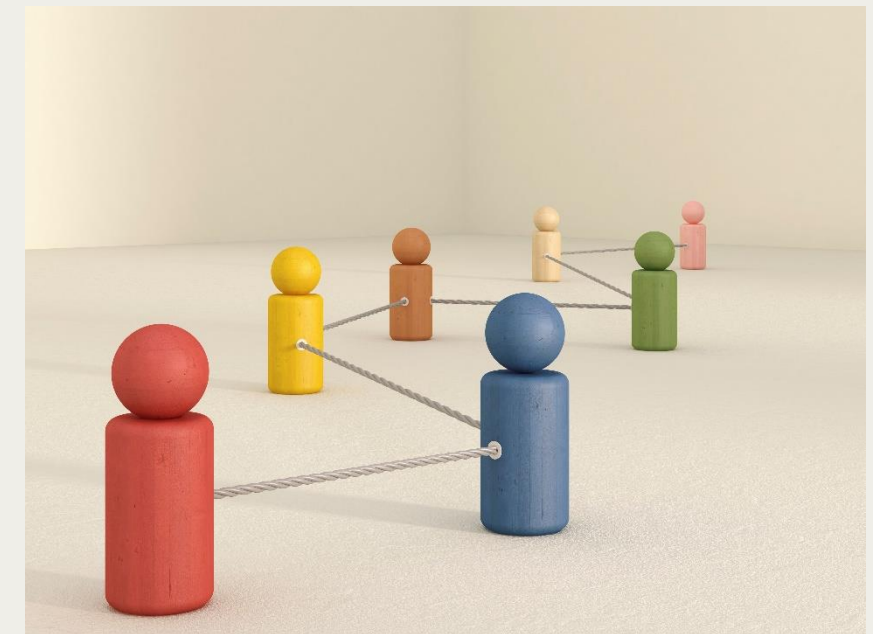
Asia-Pacific Aquatic Animal Health Network (AP AquaNet)

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Aquatic Animal Health Officer

WOAH Regional Representation for Asia and the Pacific

October 20, 2023





Outline

Focus of the talk

To provide an overview of aquatic animal health (AAH) activities in Asia and the Pacific

To describe the aquatic animal health network in Asia and the Pacific

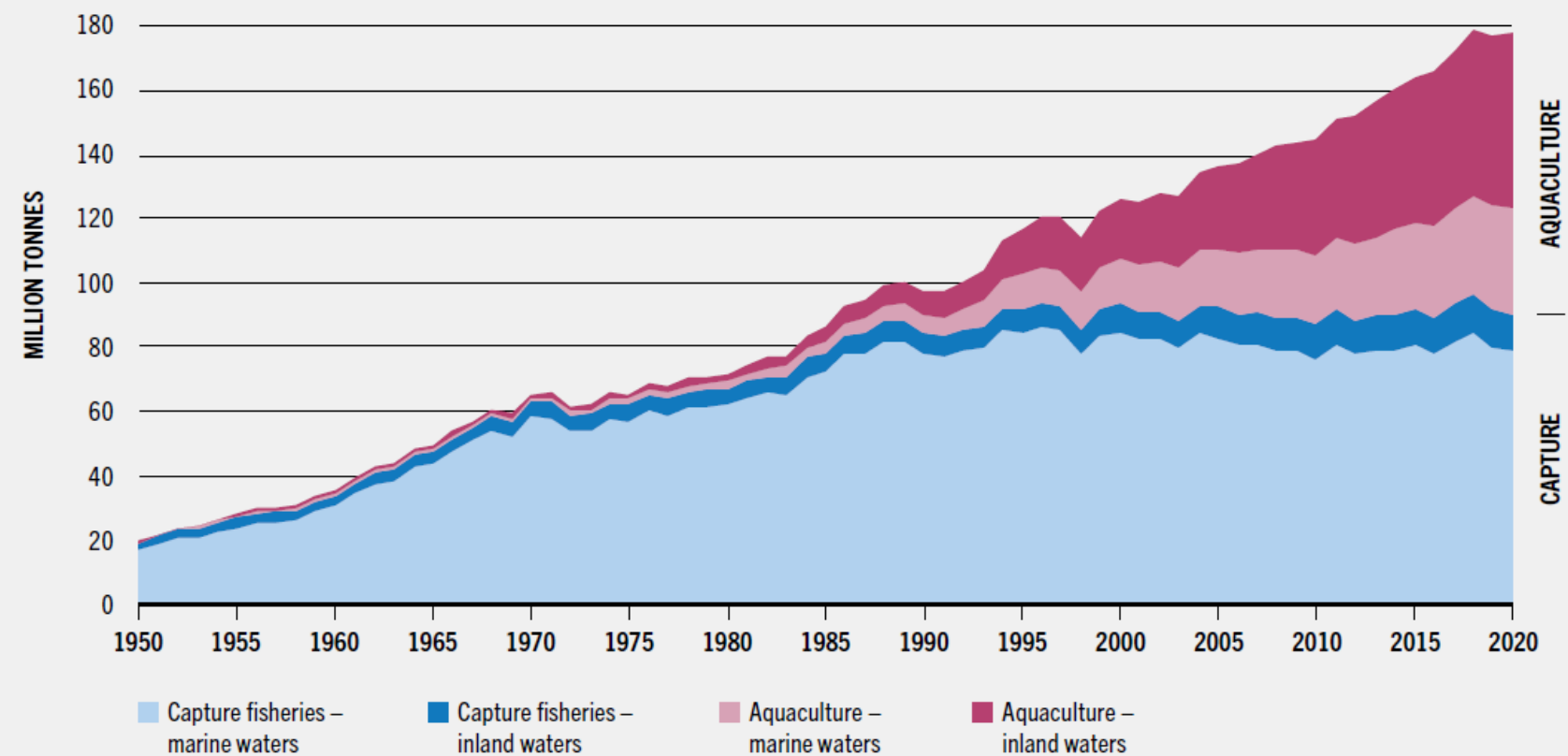
Outline

- Aquaculture in the Asia-Pacific
- Asia-Pacific Aquatic Animal Health Network (AP AquaNet)
- Aquatic animal health activities in Asia-Pacific



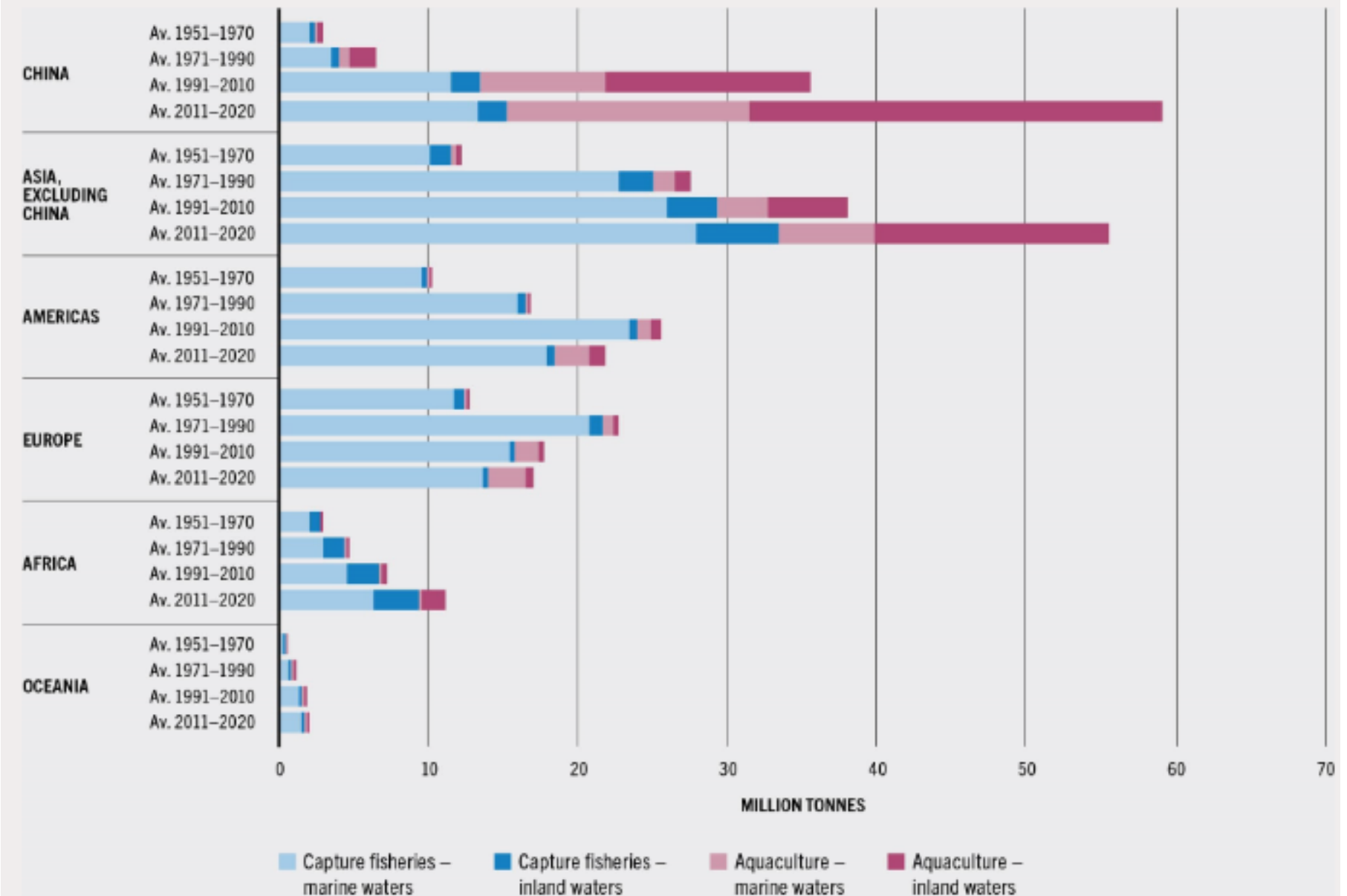
World capture fisheries and aquaculture production

FIGURE 1 WORLD CAPTURE FISHERIES AND AQUACULTURE PRODUCTION



NOTES: Excluding aquatic mammals, crocodiles, alligators, caimans and algae. Data expressed in live weight equivalent.
SOURCE: FAO.

FIGURE 5 REGIONAL CONTRIBUTION TO WORLD CAPTURE FISHERIES AND AQUACULTURE PRODUCTION



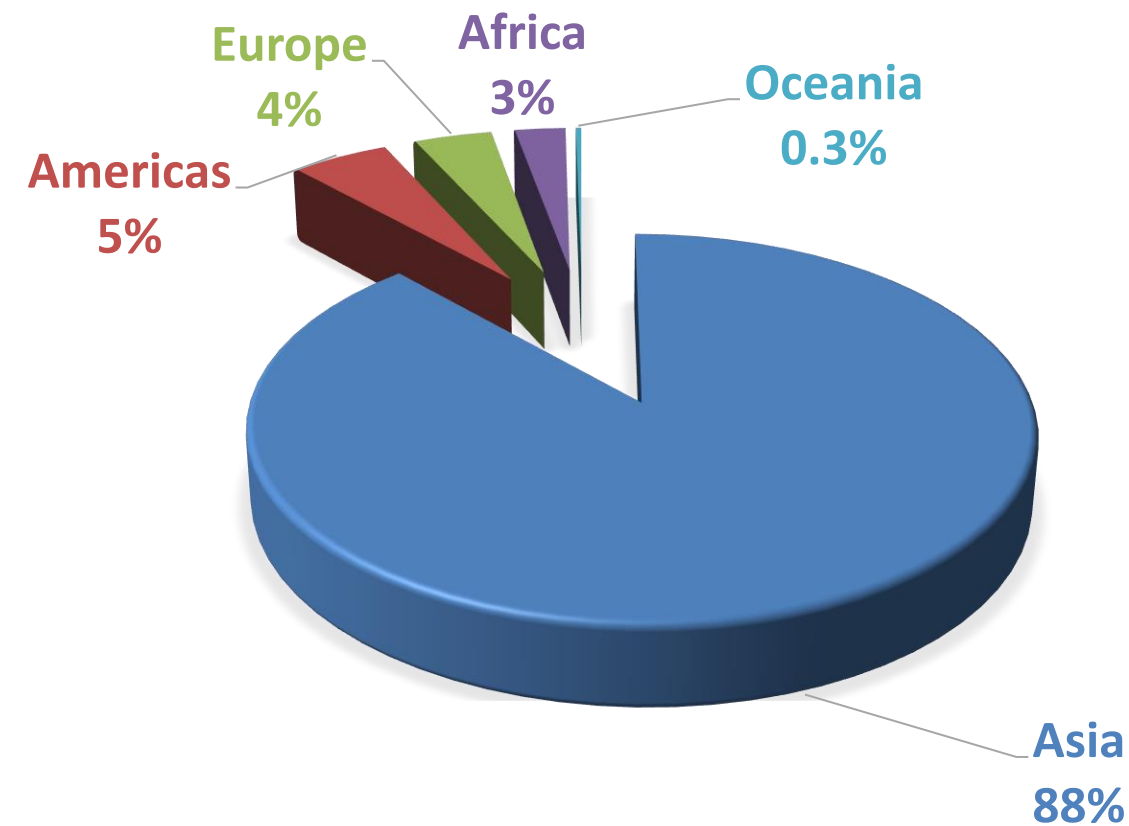
NOTES: Excluding aquatic mammals, crocodiles, alligators and caimans and algae. Data expressed in live weight equivalent.
SOURCE: FAO.



Aquaculture in the Asia-Pacific

Production

- Significant food production sector
- Livelihood opportunities
(small-scale farming communities)
- Contributes to food security,
nutrition and poverty alleviation



Source: FAO, 2023. Global aquaculture production 1950-2021 (FishStatJ)

World Top Aquaculture Producers (2021)

Rank	Country	Production (x1000 T)	%
1	China	51,200	56.3
2	India	9,403	10.3
3	Indonesia	5,515	6.1
4	Viet Nam	4,736	5.2
5	Bangladesh	2,639	2.9
6	Norway	1,665	1.8
7	Egypt	1,576	1.7
8	Chile	1,427	1.6
9	Thailand	990	1.1
10	Myanmar	929	1.0
...	more		
	Total global production	90,900	100.0



Aquatic animal products

Consumption

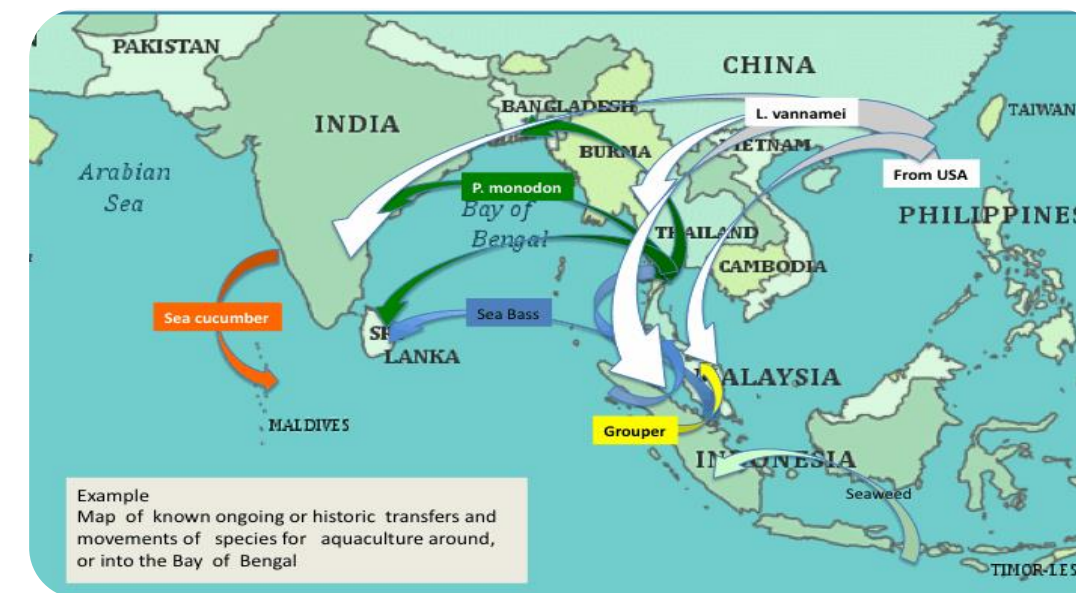
- Total amount for human consumption (excluding algae): 157 million tonnes
- In 2030, aquaculture will provide 57% of fish for human consumption

Asia-Pacific is the global aquaculture powerhouse.

Aquatic animal trade

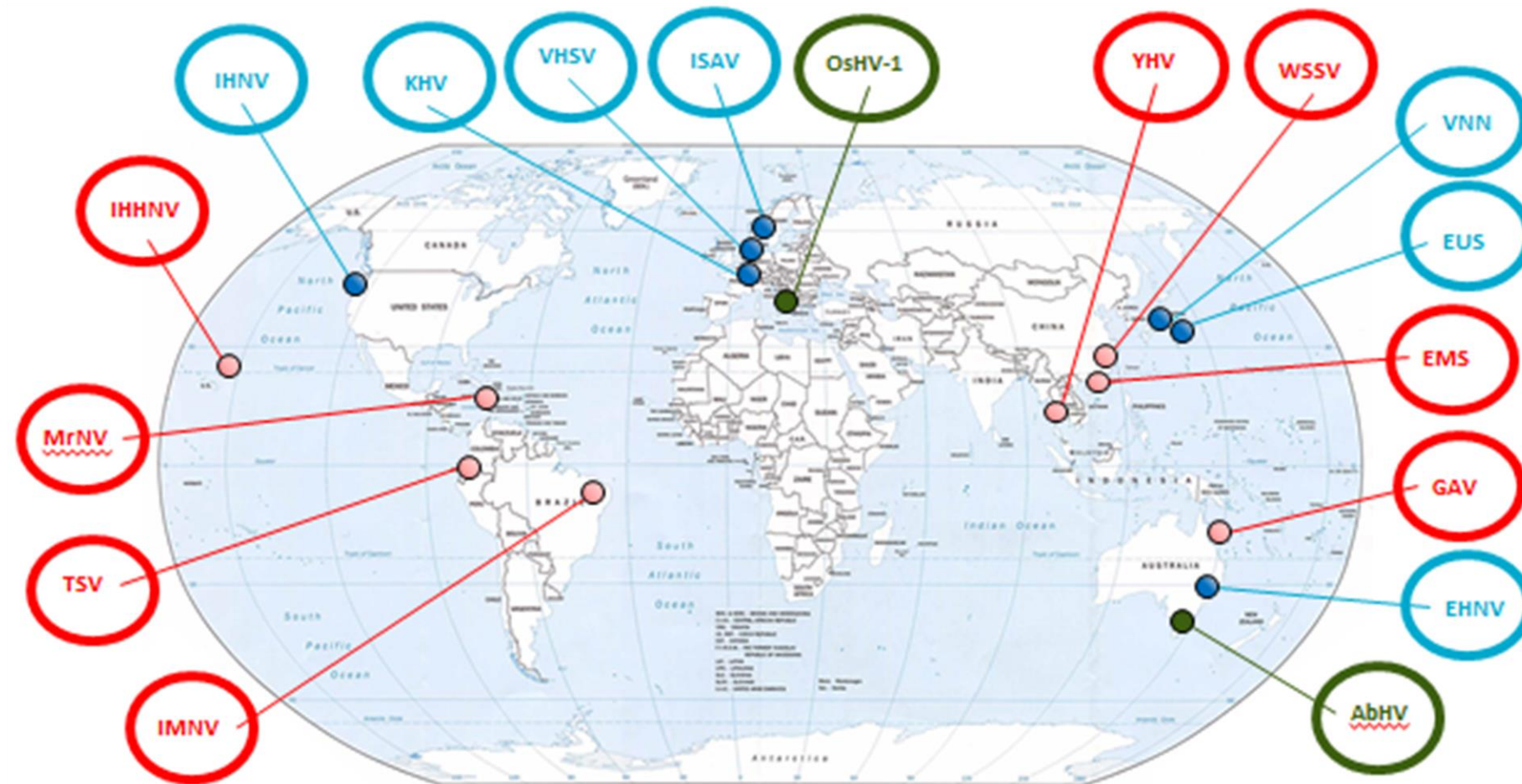
- International trade plays an important role in ensuring access to food fish to consumers.
- International trade value: \$151 billion

Source: FAO, 2022. In Brief to The State of World Fisheries and Aquaculture 2022
Picture courtesy from Dr Eduardo Leña





Transboundary Aquatic Animal Diseases (TAADs)



- Aquaculture industry is vulnerable to TAADs emergence.
- Impacts have been aggravated by the lack of effective preparedness and response to emerging disease.

Economic impact

- Direct losses close to US\$ 6 billion annually
- No estimates on indirect losses

Slide courtesy from Dr Eduardo Leaña



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Rationale

Challenge

Increase in emerging disease occurrence but limited resource

Need for improved transparency of aquatic animal disease information

Lack of coordination mechanism among stakeholders

Regional experts agreed:

Need for proficiency testing, test validation, and emergency response

Need to draw existing activities and professional expertise of WOAHA

Reference laboratories



Expert Consultation Meeting on Aquatic Animal Disease Diagnosis and Control, Bangkok, Thailand, November 2018



Asia-Pacific Aquatic Animal Health Network (AP AquaNet)

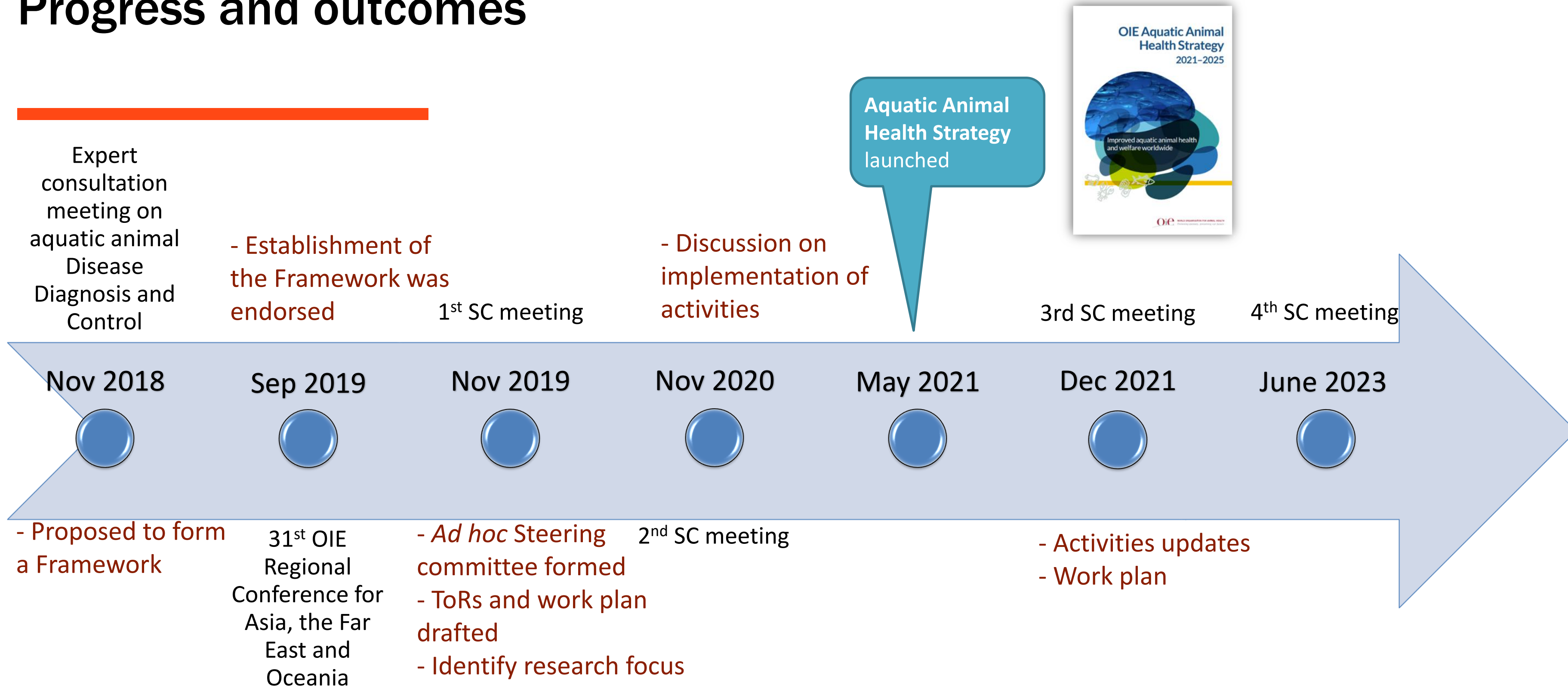
A framework of actors to strengthen laboratory capacity for aquatic animal disease activities in Asia and the Pacific

Framework objectives

- Strengthen collaboration
 - WOAH Reference Centres and Members
- Share and exchange information
 - test validation, reference materials, and positive samples



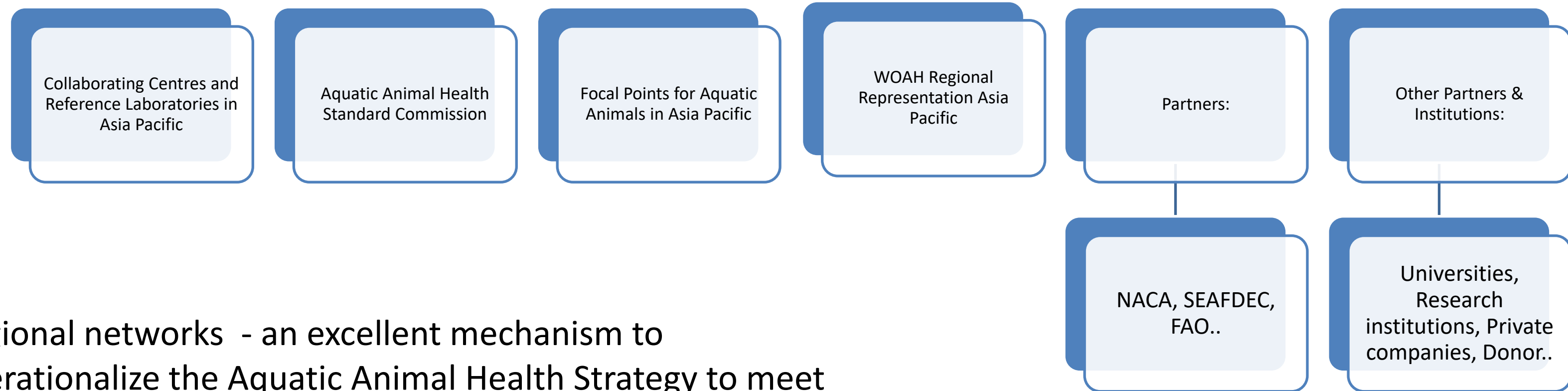
Progress and outcomes





Asia-Pacific Aquatic Animal Health Network (AP AquaNet)

Stakeholders involved in the network for Asia Pacific



Regional networks - an excellent mechanism to operationalize the Aquatic Animal Health Strategy to meet regional needs and strengthen collaboration.



Roles and responsibilities

Reference Centres and Member representatives agree to:

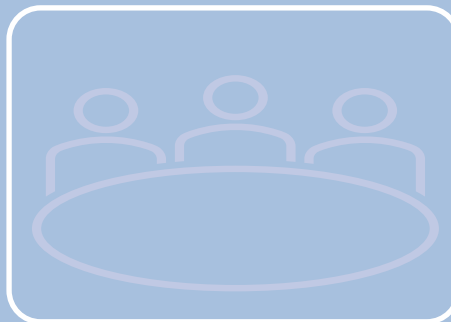
- Coordinate and provide **proficiency testing programmes** across the AP region
- Support **emergency response** and provide in-country training
- Improve **communication** among stakeholders
- Support and promote **standardisation of methods to diagnose** and confirm a pathogenic agent

Stakeholder group members would support

- Information sharing as well as research assistance and technical support, especially on emerging diseases

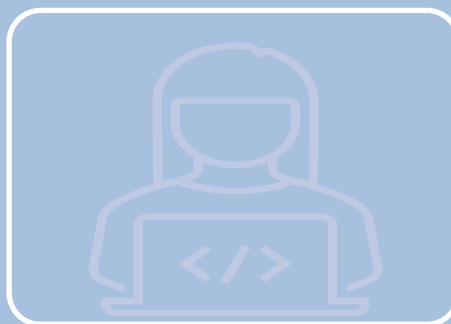


Operational mechanisms



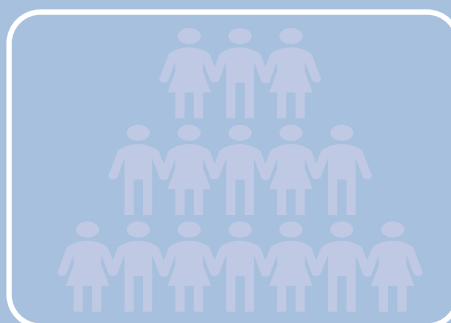
Steering Committee

- Develop a plan (objectives and implementation)
- Draft annual activities plan
- Prepare annual report for Regional Commission for Asia and Far East and Oceania



Secretariat

- Strengthen multilateral relations and communication
- Share and disseminate relevant information with other parties
- Support the Steering Committee and framework



Members

- Support Steering Committee in planning and participating in activities
- Share and disseminate relevant information with other parties
- Contribute to preparations for an annual report



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Aquatic animal health activities

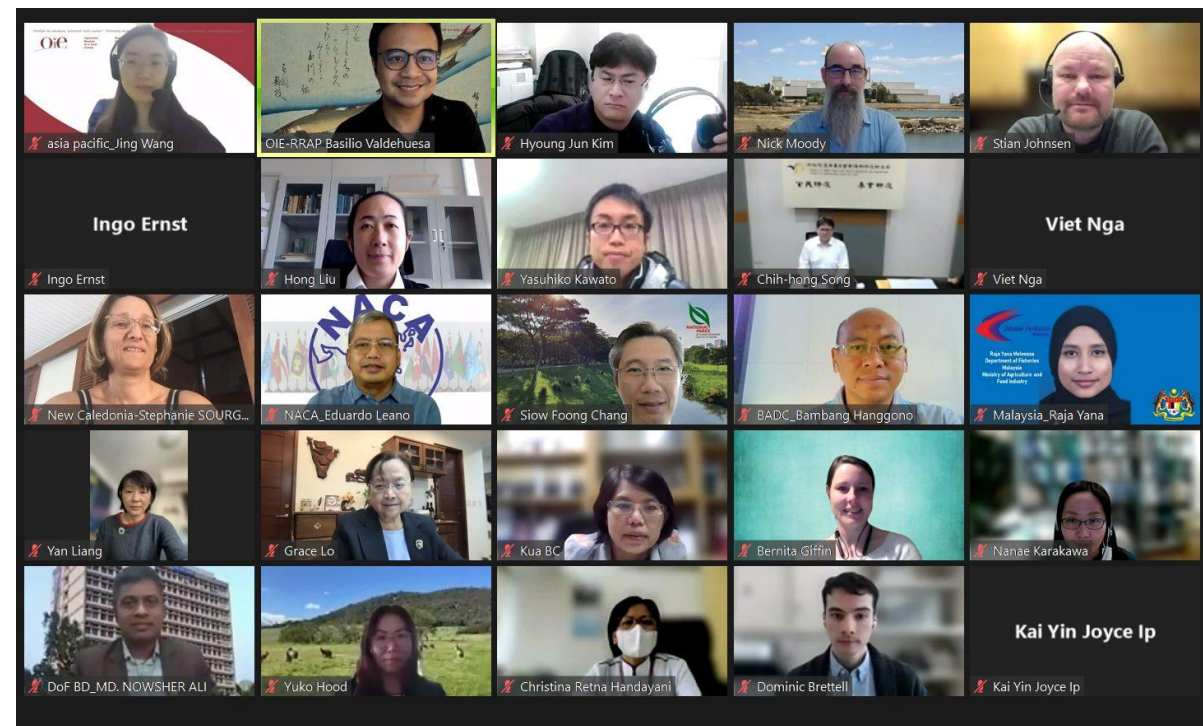


Flagship activities (2020 – 2022)



Aquaculture Biosecurity in small-scale holders
Evaluation of AHPND causative agent
Emergency response and preparedness

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



Final Report

Prepared by:
Network of Aquaculture Centres in Asia-Pacific
Eduardo M. Leño (Project Leader)
Senior Programme Officer, Aquatic Animal Health Programme

June, 2022

<https://rr-asia.woah.org/wp-content/uploads/2022/07/final-report-woah-naca-aquaculture-biosecurity-project-final.pdf>



Flagship activities (2023 – 2025)

Response exercise to examine regional coordination

Assessment of on-farm biosecurity in aquaculture

Enhance reporting/ Improve regional reporting performance





Other activities

Other activities

- A platform for sharing training materials and scientific information on aquatic animal health
- Regional Aquatic Animal Disease Report

WOAH Regional Webinars

- Webinar on Responsible and prudent antimicrobial use (AMU) in aquatic animals in Asia and the Pacific (November 2020)
- Virtual Consultation Meeting on Antimicrobial Resistance and Antimicrobial Use in Aquaculture (June 2021)
- PVS Aquatic: Virtual Information Session for Asia and the Pacific
- Pre-training workshop for Disease Notification and Aquatic Animals Focal Points (June 2023)



<https://rr-asia.woah.org/en/projects/aquatic-animal/>



2021

- [Australia](#)
- [Bangladesh](#)
- [Brunei](#)
- [Chinese Taipei](#)
- [India \(Jan-Sep\)](#)
- [Malaysia](#)
- [Myanmar](#)
- [New Caledonia](#)
- [New Zealand](#)
- [Philippines](#)
- [Singapore](#)

2022

- [Australia \(Jan - Jun\)](#)
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<https://rr-asia.woah.org/en/projects/gaad-reports/>



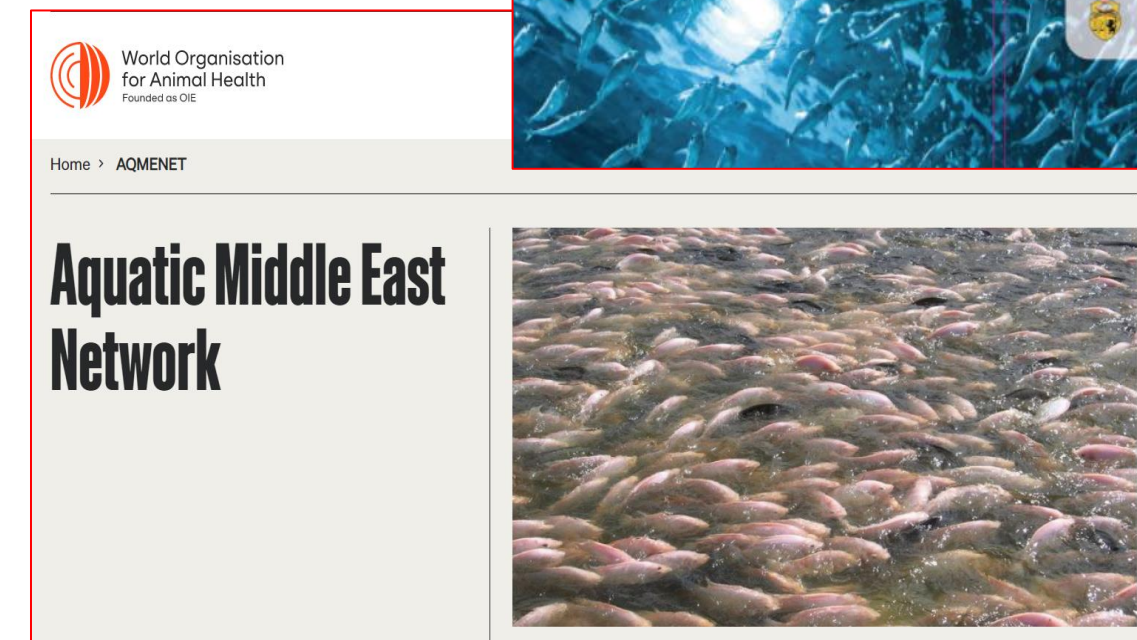
Aquatic animal health activities

Priority areas for future

- Implementation of Aquatic Animal Health Strategy
- Flagship activities (2023 – 2025)
- AMU/AMR in aquaculture workshop (2024)

Inter-regional collaboration and knowledge sharing

- Guidance and support - a benchmark for other regional aquatic animal health networks





Asia-Pacific Aquatic Animal Health Network (AP AquaNet)

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