



WORLD BANK GROUP
Environment, Natural Resources & Blue Economy

PROBLUE

WORLD BANK GUIDELINES FOR SUSTAINABLE AQUABUSINESS DEVELOPMENT



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THE PROJECT TEAM



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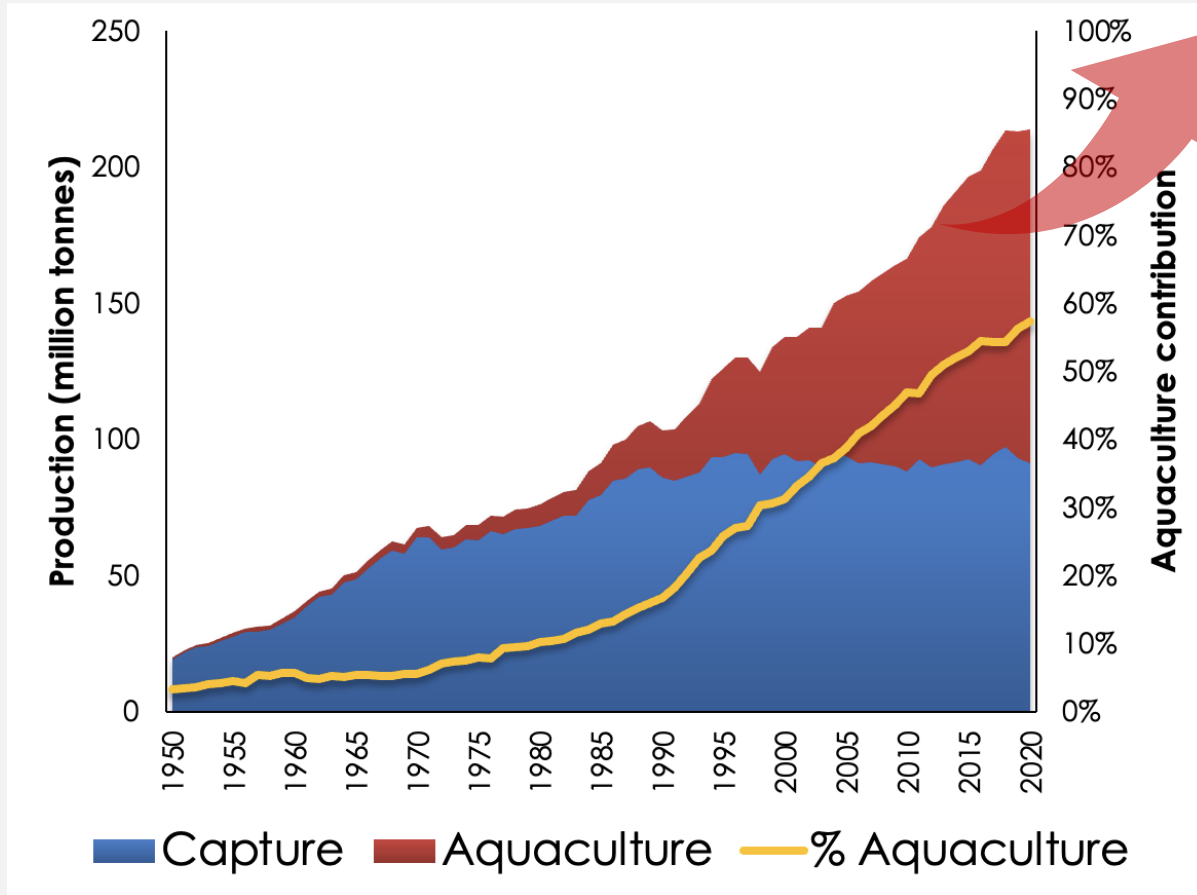


- A leading consulting firm in aquaculture, fisheries, agriculture, data and environmental solutions



CONTEXT FOR THE ASSIGNMENT

Global food fish and aquatic plants production:



FAO (2022)

AQUACULTURE - A RAPIDLY GROWING SECTOR

- The fastest growing food sector globally
- Expected to continue its upward trajectory

CHALLENGES AND RISKS

- Globally, the sector still faces social, economic and environmental challenges and risks:
 - Governance
 - Climate
 - Disease
 - Human capacity
 - Financial and market
 - Knowledge
- Best practices are essential for sustainable growth



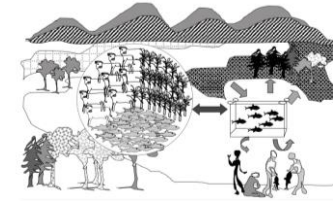
THE GUIDELINES FOR SUSTAINABLE AQUABUSINESS DEVELOPMENT

- A key component of the **AqualInvest Platform**, to understand:
 - Factors that attract investment and promote growth
 - Considerations for aquaculture investors and developers
 - Actions and collaboration needed from public and private sectors
 - Planning and analytical requirements
 - Species and locations
 - Climate change mitigations

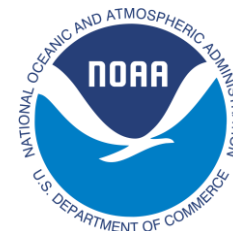


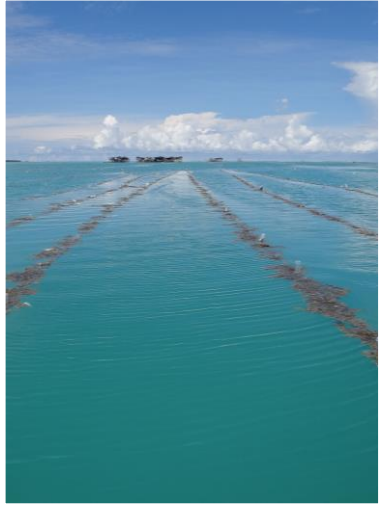
EXISTING FRAMEWORKS AND GUIDELINES

- Several existing BMPs / Guidelines / Frameworks:
 - FAO instruments
 - National and regional BMPs and standards
 - Voluntary BMPs and certification standards
- Based on the FAO **Ecosystem Approach to Aquaculture**



THAI AGRICULTURAL STANDARD
GOOD AQUACULTURE PRACTICES
FOR FRESHWATER AQUATIC ANIMAL FARM





WHERE DO THE WORLD BANK GUIDELINES FIT IN?

- **Guiding investment and business development**
- Accessible, practical and highly adaptable
- Encompassing the full value chain

THE WORLD BANK GUIDELINES FOR SUSTAINABLE AQUABUSINESS DEVELOPMENT

OVERALL PROJECT AIM

The World Bank Aquabusiness Guidelines will present, in a user-friendly way, the **necessary requirements and enabling factors that should be in place for investments in aquaculture to be sustainable**: feasible, environmentally responsible, socially acceptable and economically viable.

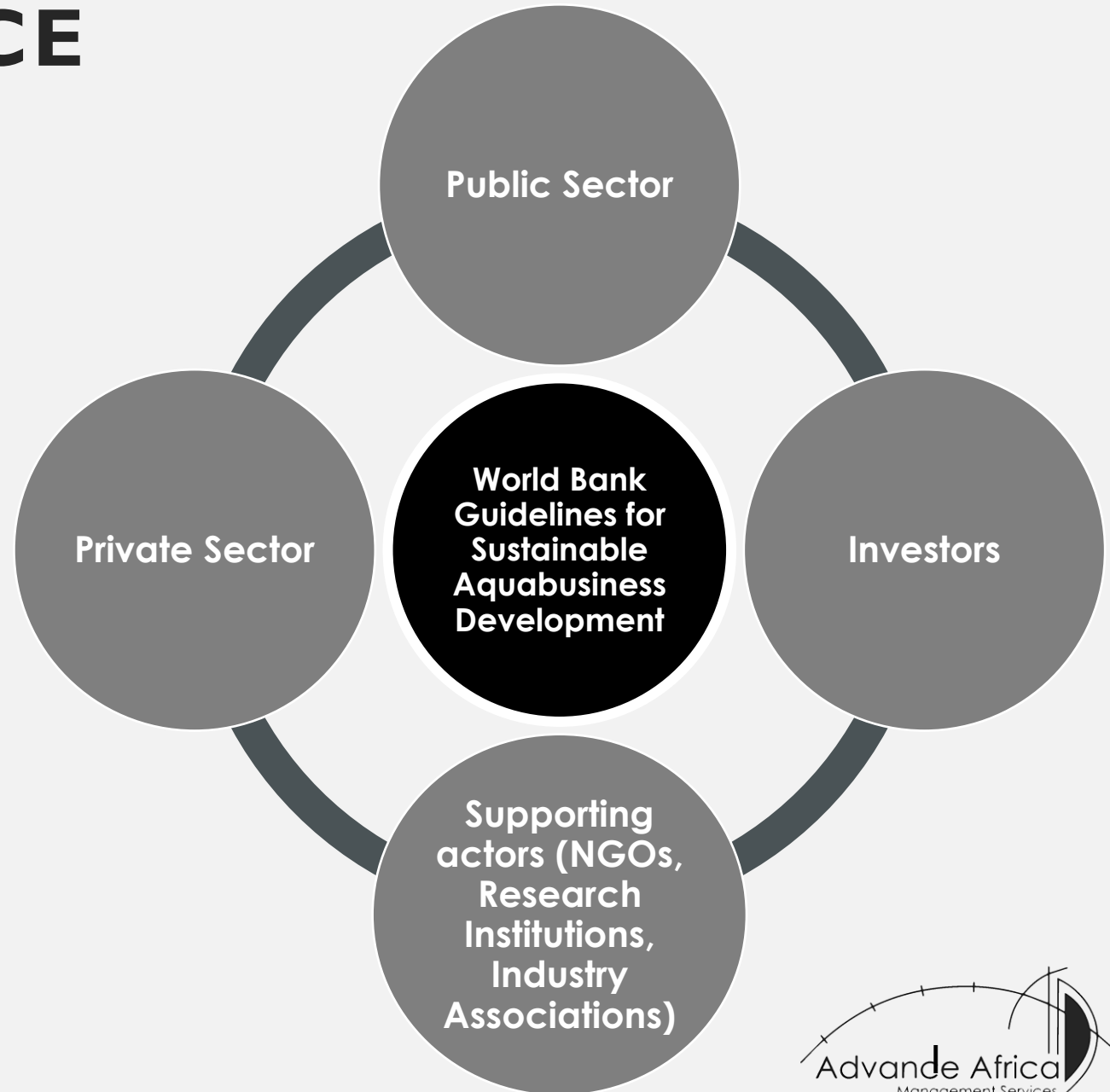


SCOPE AND AUDIENCE



Global with a specific focus on **Asia, Africa and Latin America**

Adaptable across all species, production systems, scales, and value chain component



APPROACH AND PHASES

Review the context for sustainable aquabusiness development

Prepare the Guidelines for Sustainable Aquabusiness Development

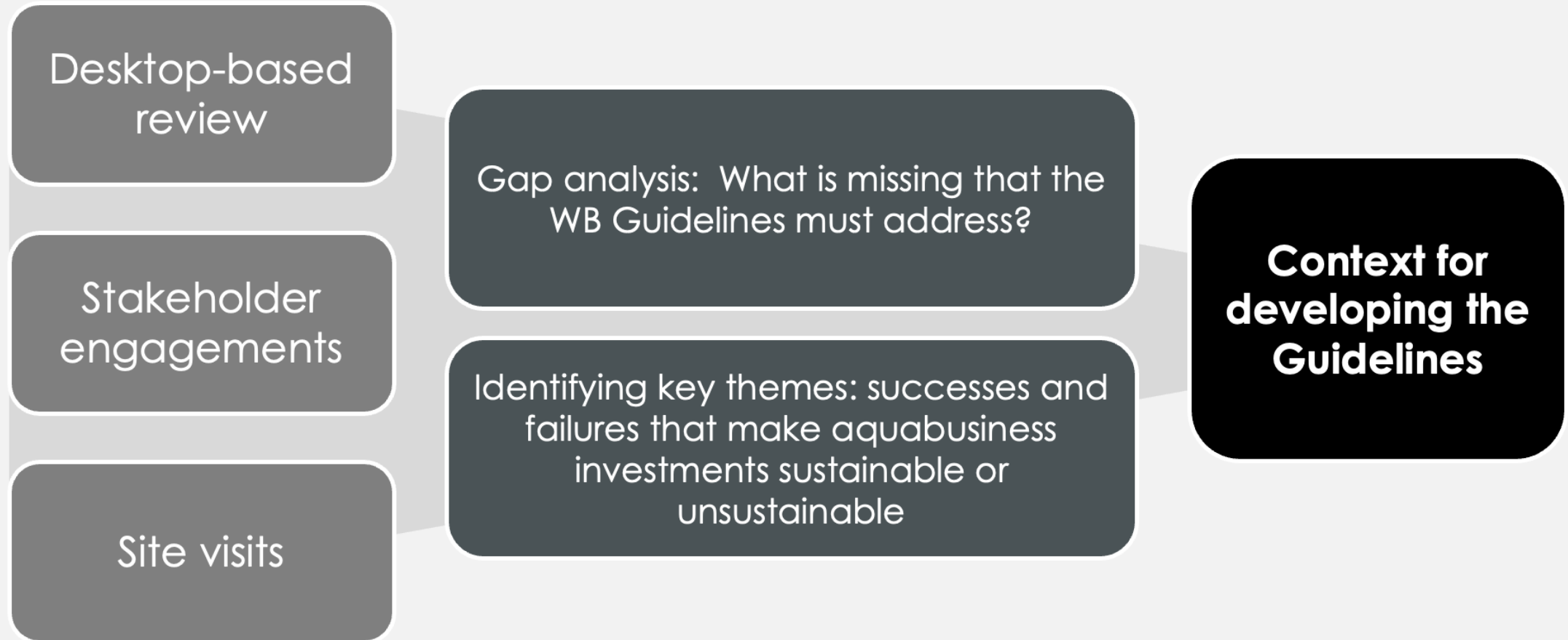
Validation of the Guidelines

Dissemination of the Guidelines

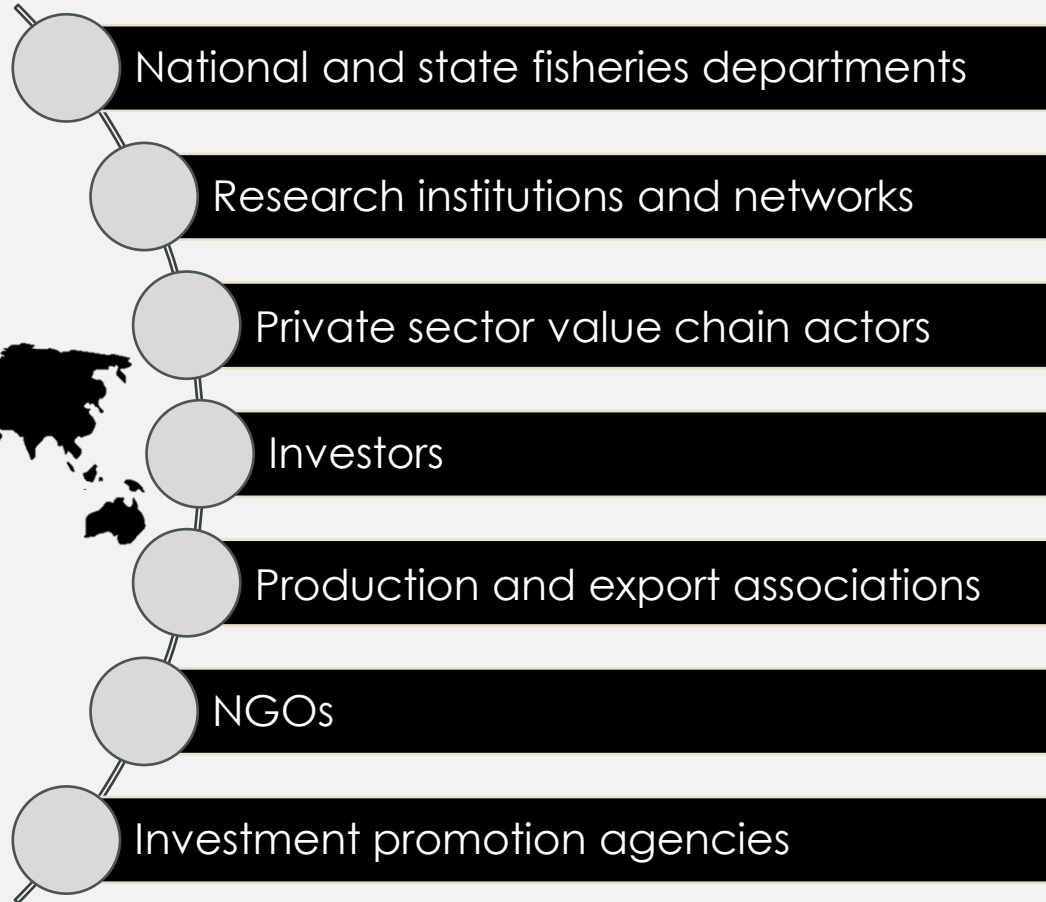
The development process:
Inclusive and participatory

The end product:
A “living document”

REVIEW OF THE CONTEXT FOR SUSTAINABLE AQUABUSINESS DEVELOPMENT



STAKEHOLDER ENGAGEMENTS



EXAMPLES OF PRACTICAL APPLICATIONS OF THE GUIDELINES

SOCIAL SAFEGUARDS FOR AQUACULTURE INVESTMENT

- Social safeguard norms in investor countries are not always the norms in recipient countries
- **Investors:**
 - How to assess social safeguards in place in a country - what to look for (e.g., labour laws, customary rights laws; enforcement)
 - How to ensure individual investments are responsible (e.g., third-party audit or certification)
- **Public sector:**
 - Putting social safeguards in place to attract investment – examples from countries with strong social safeguards



BUSINESS STRUCTURE AND RELATIONSHIP BETWEEN INVESTOR AND INVESTEE

- Many types of financial relationship options – the most suitable should be chosen
 - Contract farming, JV, PPP, Shared equity etc.
- **Private sector investment recipients:**
 - Understand and assess the different financial relationship models, and identify the most suitable option



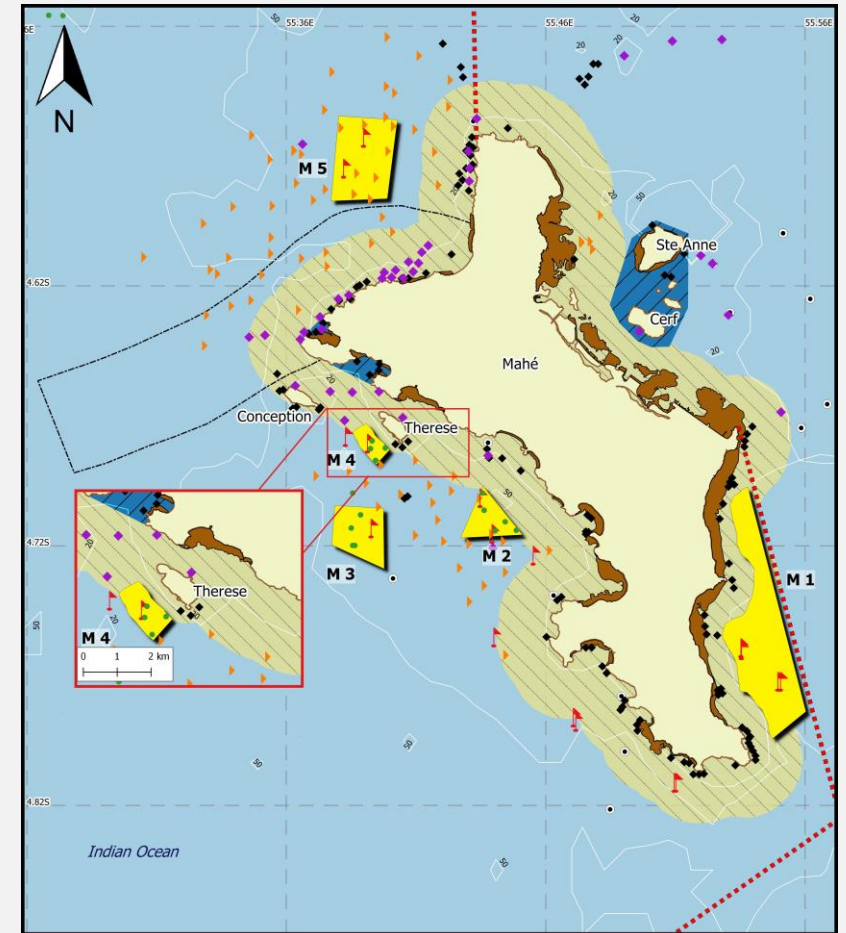
CLIMATE-SMART INNOVATION IN AQUACULTURE

- Incorporate climate-smart technologies from the outset for resilience and long-term sustainability
 - For example, many developing countries have unreliable power supply; and the cost of power is influenced by external factors
- **Investors:**
 - Assess climate resilience of operations
 - Assess adaptability to incorporate new climate smart technologies
- **Private sector operators:**
 - Make new developments / expansions adaptable to incorporate new climate smart technology and innovations



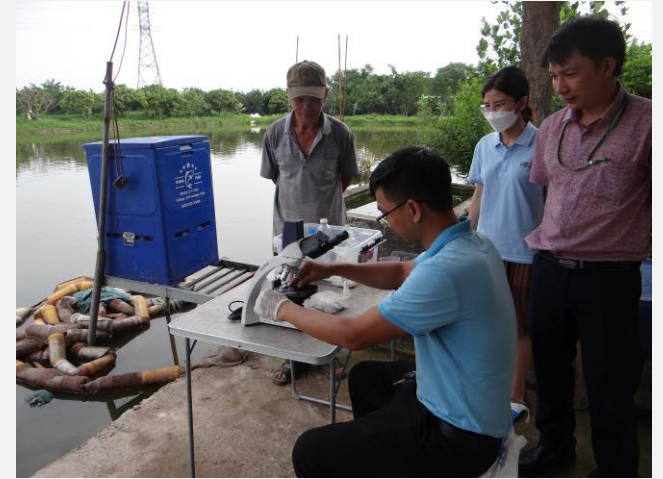
PROMOTE ZONING TO ATTRACT AND SIMPLIFY INVESTMENT

- Zoning and mapping allow investors to readily identify opportunities for investment
- Removes barriers to private sector establishment
- **Public sector:**
 - Invest in baseline spatial aquaculture suitability mapping – and factors to consider
 - Introduce zonation (ADZs): carrying capacities, incentives (e.g., ESIA)
 - Promote hubs with linkages across value chain



MITIGATING BIOSECURITY RISKS

- Biosecurity risks are major reason that aquaculture investments fail
- **Public sector:**
 - Zonation and carrying capacity in shared / transboundary water bodies
 - Invest in epidemiological surveillance programmes
 - Invest in diagnosis and treatment services and capacity building
 - Develop national biosecurity protocols
- **Investors / Private sector:**
 - Invest in diagnosis and treatment supporting services
 - Establish stringent biosecurity protocols
 - Ensure contingency / emergency planning in the case of outbreaks / trade bans



NEXT STEPS

APPROACH AND PHASES

Review the context for sustainable aquabusiness development

Prepare the Guidelines for Sustainable Aquabusiness Development

Validation of the Guidelines

Dissemination of the Guidelines

The development process:
Inclusive and participatory

The end product:
A “living document”

THANK YOU TO ALL THE STAKEHOLDERS WE HAVE ENGAGED WITH SO FAR

- International Finance Corporation (IFC)
- FAO NFI, OCB and ESP
- WWF-US and WWF-VN
- WorldFish
- Aquaculture Stewardship Council
- Global Seafood Alliance
- GlobalGAP
- FutureFish
- Seadling
- Inno Resource Development
- Thai Board of Investment
- Penang State Fisheries Office
- Fisheries Research Institute, Malaysia
- Seychelles Fishing Authority
- Seychelles Investment Bureau
- Seychelles Ministry of Investment, Entrepreneurship and Industry
- Aqqua
- Minh Phu
- Charoen Pokphand Group
- Thai Union Group
- Blue Archipelago Berhad
- Van Lang University
- VMC Animal Health
- Vietnam National University of Agriculture
- Centex Shrimp
- Biotechnology Centre of Ho Chi Minh City
- Vietnam Association of Seafood Exporters and Producers
- Vietnam Seaculture Association
- Forte Biotechnology
- Network of Aquaculture Centers in Asia-Pacific
- Asian Institute of Technology
- Meridien Institute
- Longline Environment
- STP Group
- Eco Aquaculture Vietnam
- investPenang
- Conservation international
- Gatsby Africa
- Lake Victoria Fisheries Organisation
- World Aquaculture Society – Africa Chapter
- True-Fish
- Sanlei Trout
- Katse Fish Farms

THANK YOU



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