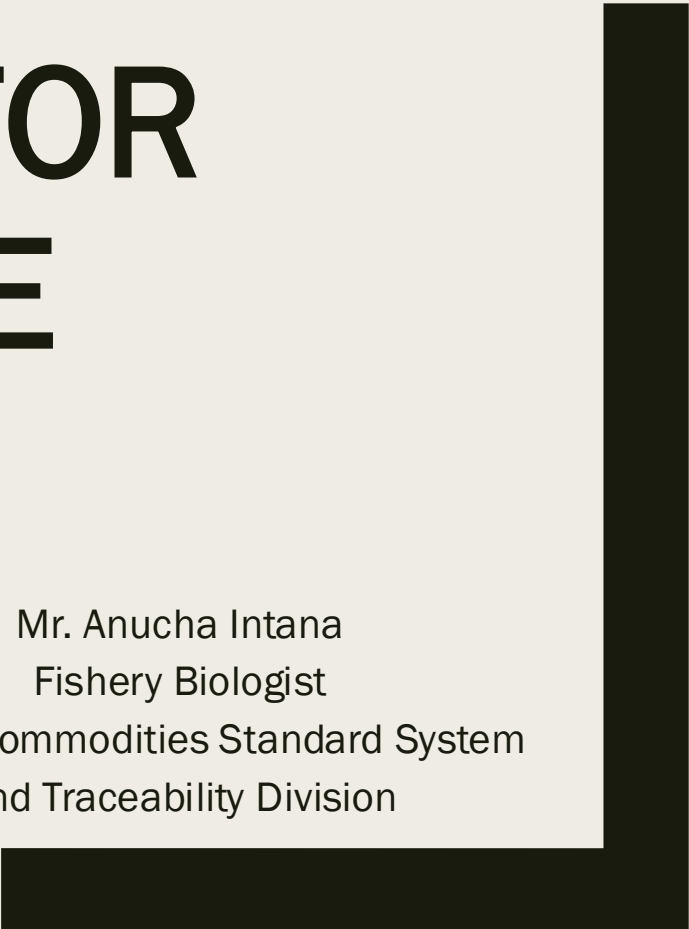




TRACEABILITY FOR MARICULTURE

Mr. Anucha Intana
Fishery Biologist
Fishery Commodities Standard System
and Traceability Division



: Overview of Thai Aquaculture

- Aquaculture is one of the key driving forces of the Thai agricultural economy. Production is structured into two main vital sectors:



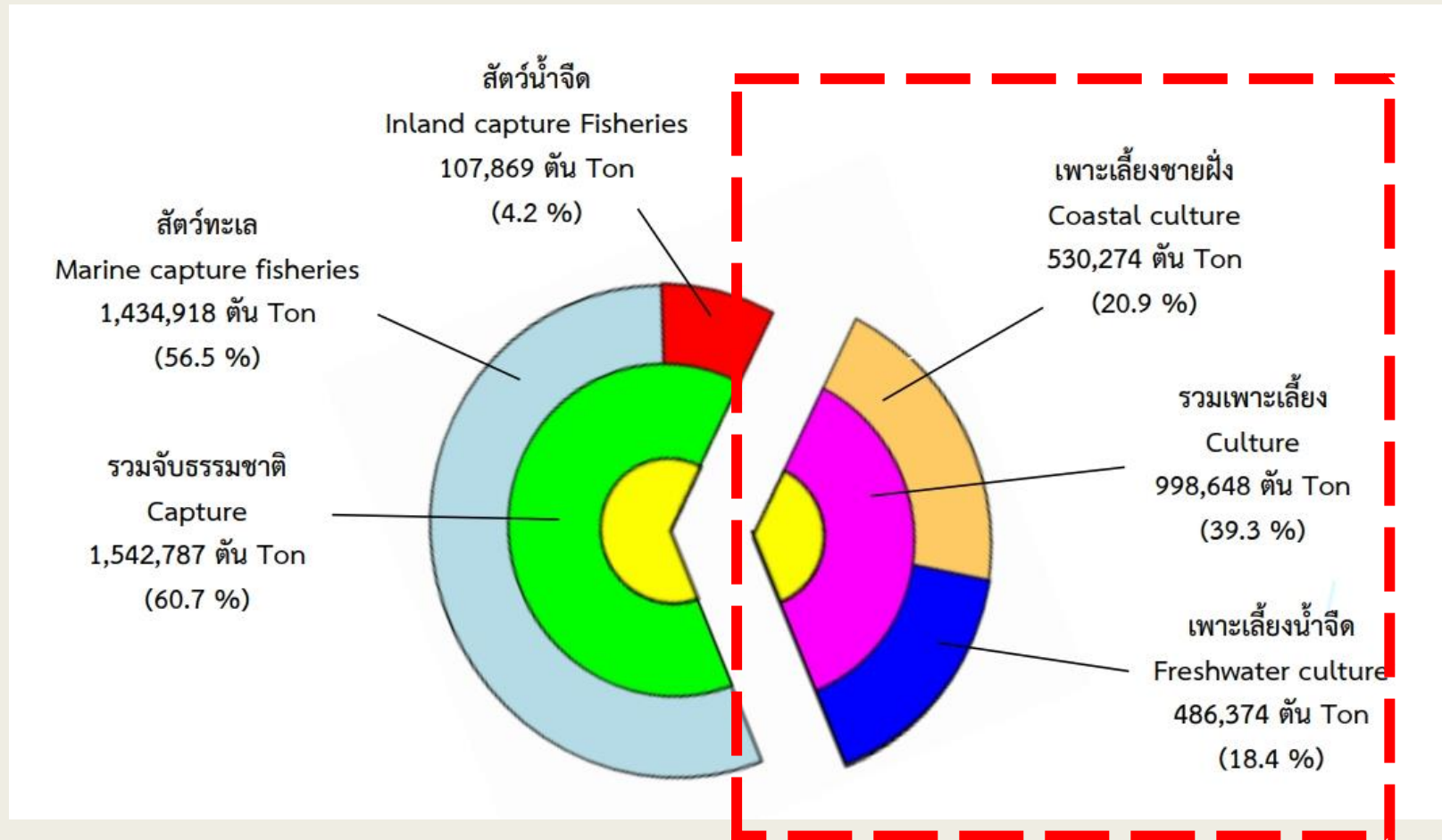
- **Coastal & Brackish Water Aquaculture**
Primarily focused on high-value processing industries and global export channels.



- **Freshwater Aquaculture**
Crucial for ensuring domestic food security and supporting local rural livelihoods.



: Overview of Thai Aquaculture



Total Fisheries Production in Quantity of Thailand in 2024

: Key Aquaculture Species

■ Freshwater Aquaculture

- *Nile Tilapia*
- *Catfish*
- *Giant freshwater prawn*



• Coastal Aquaculture

- Marine shrimp
- Finfish (Seabass, Grouper)
- Mud crab



: Mariculture

Definition :

Mariculture, sometimes called marine farming or marine aquaculture is a branch of aquaculture involving the cultivation of marine organisms for food and other animal products, in seawater.

- offshore mariculture
- inshore mariculture
- onshore mariculture



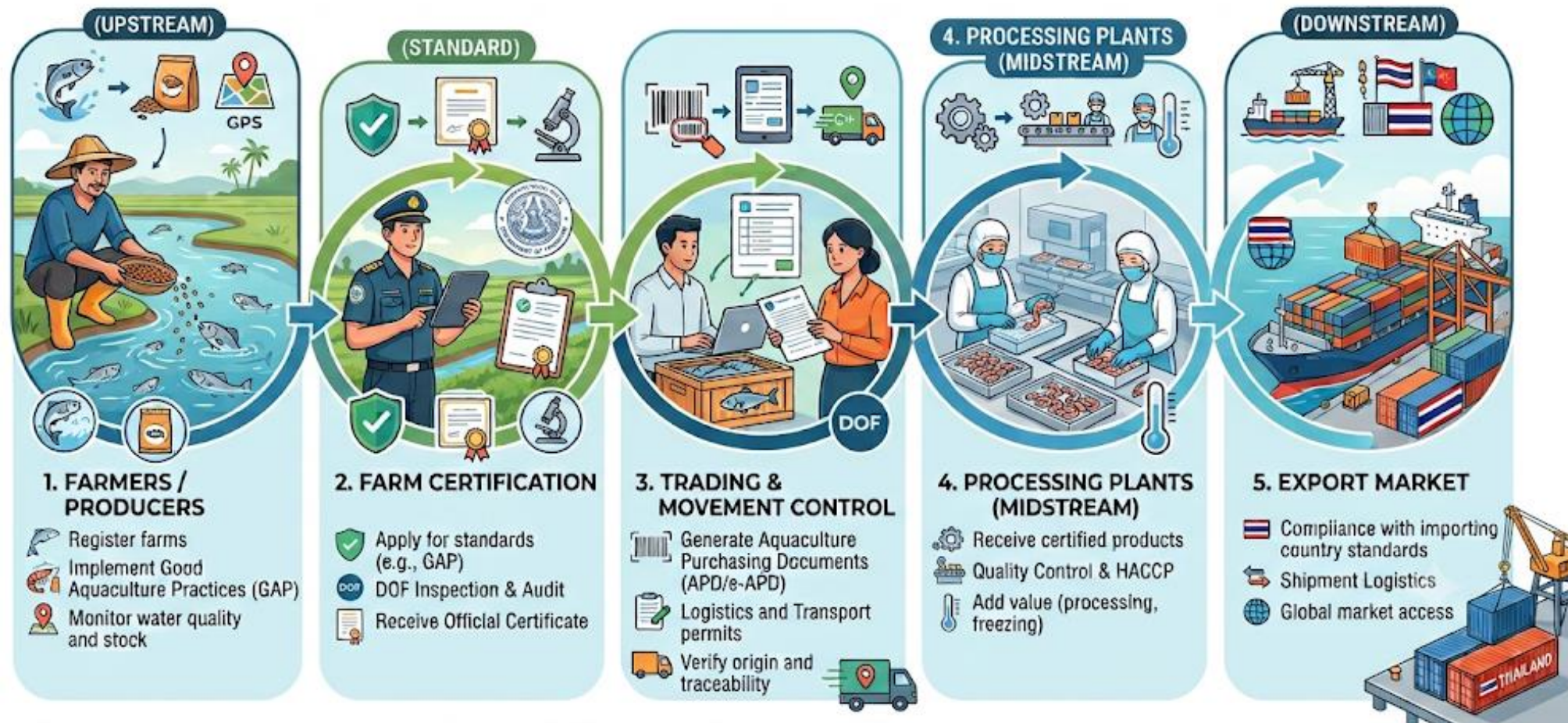
: Mariculture

- Economic importance :
 - Marine shrimp
- Food security :
 - Seabass
 - bivalve



: Aquaculture Regulation and Control

AQUACULTURE SUPPLY CHAIN & REGULATION IN THAILAND: FARM TO EXPORT



: Aquaculture Regulation and Control

Farmer and enterprise Registration



- Legal & Traceability Standards
- Technical Support & Capacity Building
- Government Subsidies (Financial/ Production Inputs)
- Access to Financial Capital & Loans

: Aquaculture Regulation and Control



Promoting Quality Standards

- Enhanced Food Safety & Quality
 - Chemical & Antibiotic Control
 - Disease Prevention
 - Consumer Trust
- Better Farm Management & Cost Efficiency
- Environmental & Social Sustainability
- Market Access & Export Opportunities
- Increased Competitive Advantage & Pricing

Quality Standards



National Bureau of Agricultural Commodity and Food Standards ; ACFS

Examples

- TAS 7429-2016 : GOOD AQUACULTURE PRACTICES FOR MARINE FINFISH FARM
- TAS 7401-2024 : GOOD AQUACULTURE PRACTICES FOR MARINE SHRIMP FARM
- TAS 7434-2019 GOOD AQUACULTURE PRACTICES FOR SEAWEED FARM
- TAS 7427-GOOD AQUACULTURE PRACTICESFOR BLUE SWIMMING CRAB FARM AND MUD CRAB FARM
- TACFS 7416-2008 GOOD AQUACULTURE PRACTICES FOR ABALONE

Major Criteria

-  • Legal Compliance
-  • Location
-  • Farm Management
-  • Feeding and Aquatic Animal Health
-  • Farm Sanitation
-  • Harvesting and Post-Harvest
-  • Environmental and Social Responsibility
-  • Data Recording



: Aquaculture Regulation and Control



Aquatic Animal Movement Documents

- Supply Chain Transparency for Businesses
 - Quality & Safety Tracking
 - Fraud Prevention
- Legal Protection for Traders and Processors
 - Clear Ownership
 - Traceability Assurance
- Unlocking Export Markets

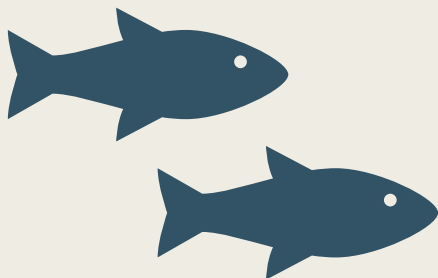
: Aquaculture Regulation and Control

Aquatic Animal Movement Documents

- *Fry Movement Document (FMD)*



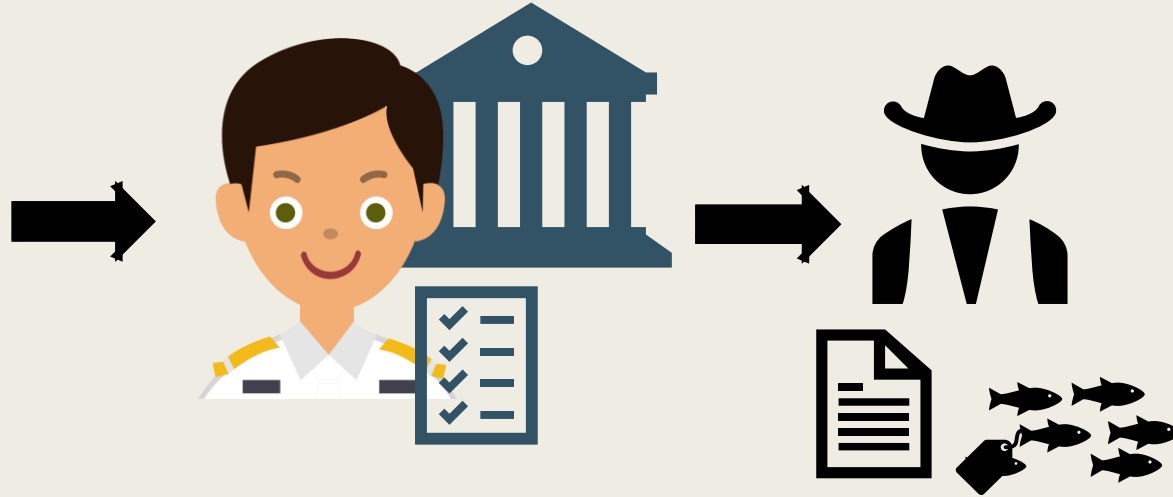
- *Movement Document (MD)*

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: Aquaculture Regulation and Control



Farmer

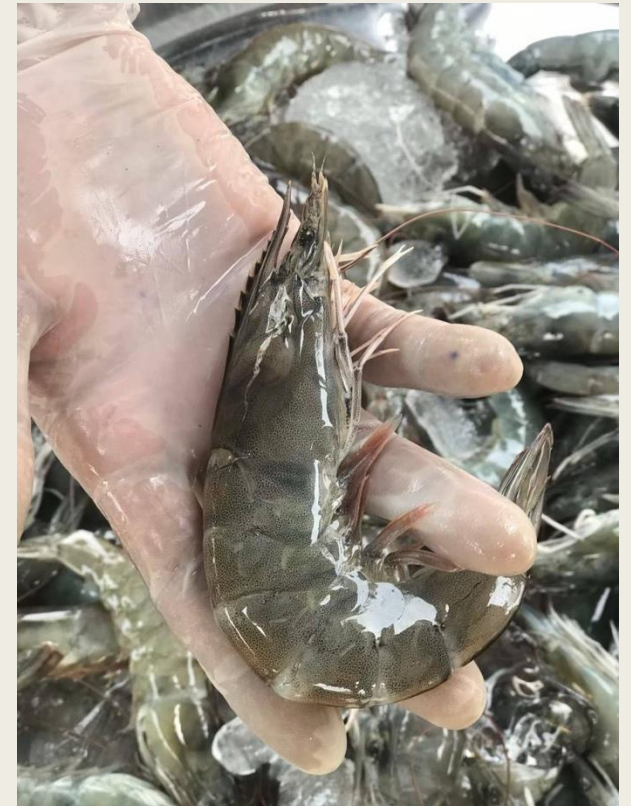


DOF

[illegible]

: The Transformation of Thailand's Fisheries Sector

- Royal Ordinance on Fisheries, B.E. 2558 (2015)
- marine shrimp farm as a
- “controlled aquatic animal”
 - *Farm Register*
 - *Approved area*
 - *rules on drugs and chemicals*
 - *Wastewater management*
 - *movement documents*



: The Transformation of Thailand's Fisheries Sector

- Aquatic Animal Purchasing Document ; APD



This screenshot shows the 'Part 1: Basic Information' section of the APD system. It contains several input fields for user registration and login. The 'Registration' section includes fields for 'Name', 'Email', 'Phone Number', and 'Password'. The 'Login' section includes fields for 'Email' and 'Password'. There are also checkboxes for 'Remember Me' and 'Forgot Password'. The 'Registration' button is highlighted with a red arrow. Below the registration fields, there is a section for 'Part 2: Basic Information' which includes fields for 'Name', 'Email', 'Phone Number', and 'Password'. The 'Registration' button is also highlighted with a red arrow. At the bottom, there is a 'Part 3: Basic Information' section with fields for 'Name', 'Email', 'Phone Number', and 'Password'. The 'Registration' button is highlighted with a red arrow.

This screenshot shows the 'Part 2: Basic Information' section of the APD system. It contains several input fields for user registration and login. The 'Registration' section includes fields for 'Name', 'Email', 'Phone Number', and 'Password'. The 'Login' section includes fields for 'Email' and 'Password'. There are also checkboxes for 'Remember Me' and 'Forgot Password'. The 'Registration' button is highlighted with a red arrow. Below the registration fields, there is a section for 'Part 3: Basic Information' which includes fields for 'Name', 'Email', 'Phone Number', and 'Password'. The 'Registration' button is also highlighted with a red arrow. At the bottom, there is a 'Part 4: Basic Information' section with fields for 'Name', 'Email', 'Phone Number', and 'Password'. The 'Registration' button is highlighted with a red arrow.

Farm/Seller Details

Purchasing Details

Buyer Details

: The Transformation of Thailand's Fisheries Sector

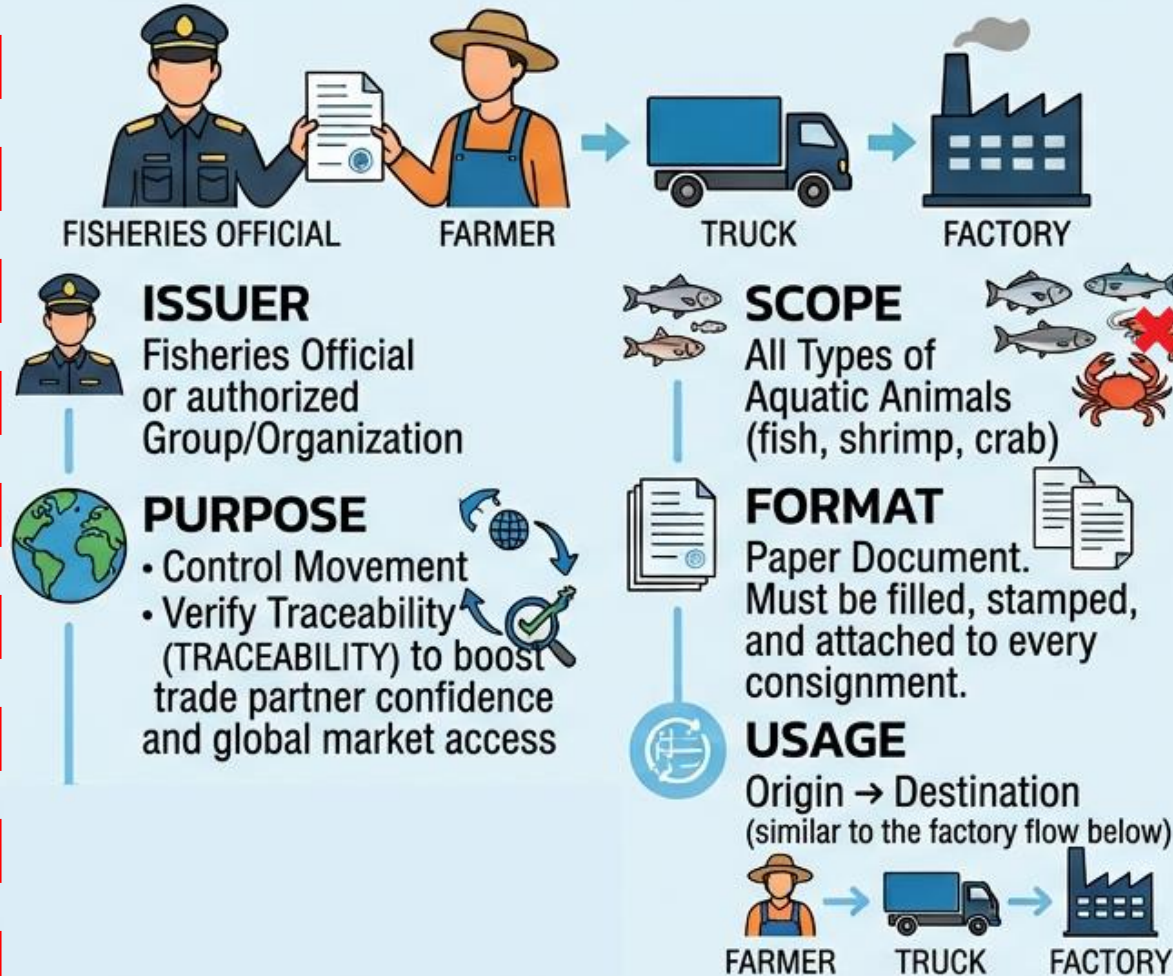
The Objective of APD System

- To verify that shrimp products originate from legally registered farms that comply with standard
- To combat IUU fishing and prevent the illegal aquaculture products into the supply chain.
- To digitize and streamline the issuance process of movement documents, reducing paperwork and operational time for both farmers and officers.
- To ensure the traceability of marine shrimp products from farms to processing plants and final consumers.

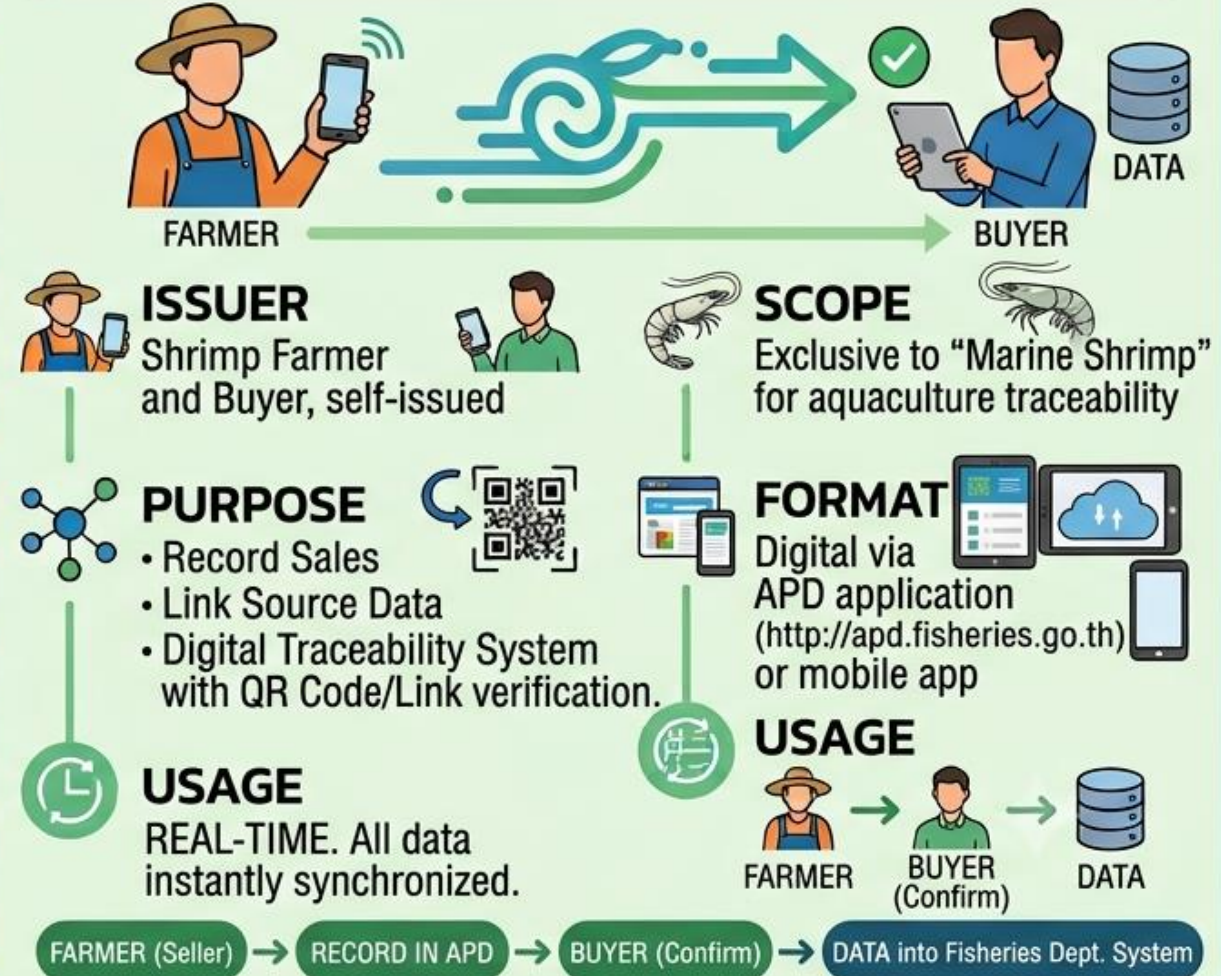
COMPARISON OF DOCUMENT ISSUANCE: MD vs APD

1. AQUATIC ANIMAL MOVEMENT DOCUMENT (FMD/MD)

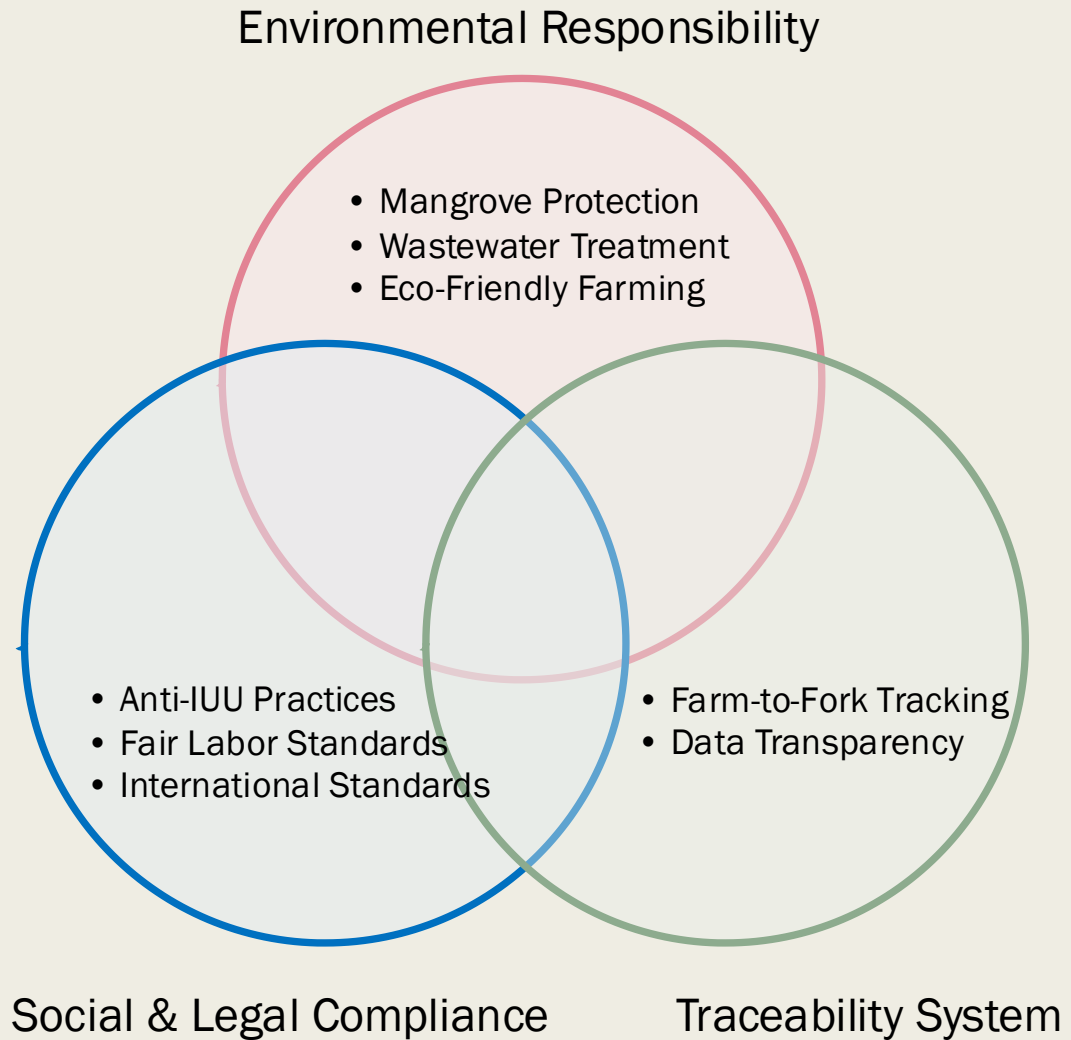
(FMD/MD)



2. AQUATIC ANIMAL PURCHASING DOCUMENT (APD)



The 3 Pillars of Sustainable Aquaculture



Thank you for
your attention



Mr. Anucha Intana
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Traceability Division

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