## **Traceability for Sustainability**

Digital Agriculture Solutions Forum 2020 for Asia and the Pacific





#### **Overview**





- Digital Transformation (Case: Our Traceability System)
- National Sustainable Fishery (Case: Research on developing Vessels Monitoring System for Small-Medium Size Vessels in Thailand)
- Small-Scale Fishing Communities (Case: Seafood standard creates new opportunities for artisanal fishermen in Nakhon Sri Thammarat and Surat Thani Province)

#### **Sustainability Strategy**



C.P. Group operates our businesses in a sustainable
manner through our C.P. Excellence Management Approach,
along with the 'Three-Benefit Principle,' which aims to create benefits for
the country, the people, and only then the company. We are committed to operating our
businesses founded on good governance, social responsibility, and strict compliance with the rules, regulations,
and standards of the countries in which we operate, and are in line with the UN's 17 Sustainable Development Goals.

Key Sustainability Decisions in 2019

Target to become carbon neutral by 2030.

Target to reduce food waste to zero by 2030.

Establish the Sustainability,
Good Governance and Corporate Communication Office in China.

#### Three-Benefit Principle

Sufficiency Economy Philosophy C.P. Excellence Management Approach The 10 UNGC Principles 17 UN SDGs & UNGP

Regulations and Standards



- Corporate Governance
- Human Rights and Labor Practices
- Leadership and Human Capital Development
- Education



- Social Impact
- Health and Well-being
- Stakeholder Engagement
- Innovation

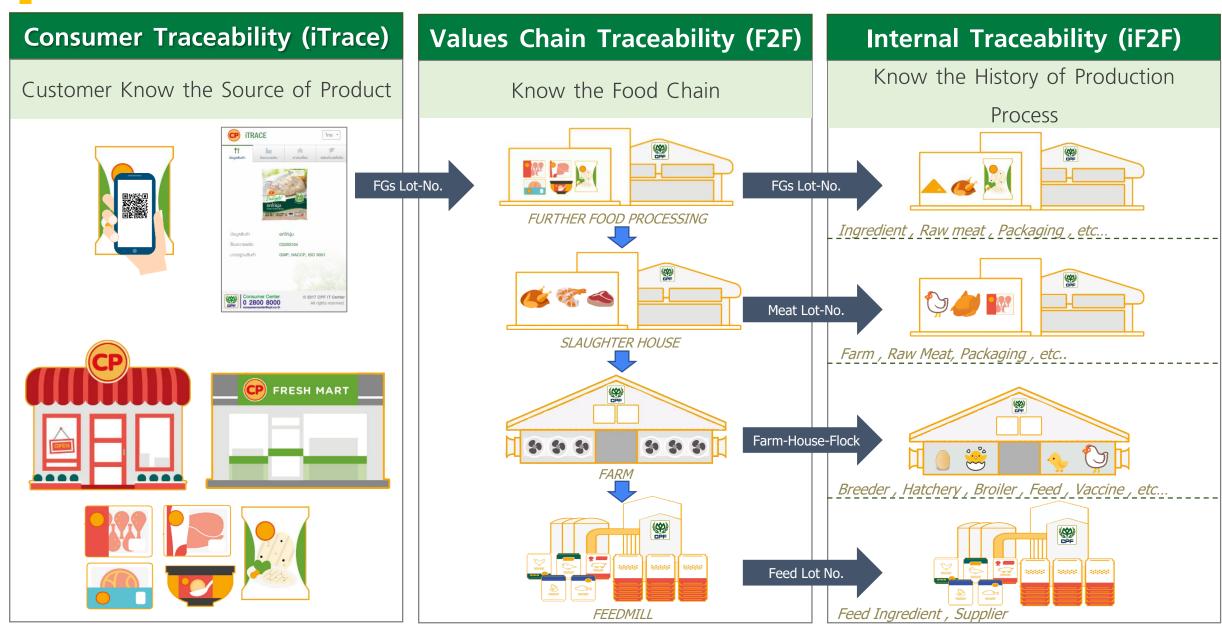


- Climate Change Management
- Water Stewardship
- Ecosystem and Biodiversity Protection
- Responsible Supply Chain

## **Traceability Focus**







## **Consumer Traceability**











## **National Sustainable Fishery**

Sustainable Fishery Management





### **Sustainable Fishery Management**

Vessels Monitoring System for 10-29 GT

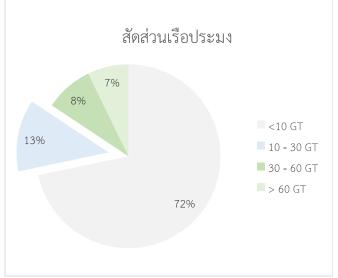
- Support Thailand Fishery and Seafood industry
- Research and development on low-cost GSM monitoring units and
- Research on the nature of 10-29 GT fisheries
- Support the Department of Fisheries with the technical knowledge and assurances needed to expand effective monitoring of Thaiflagged vessels less than 30GT
- Support the development of machine learning and monitoring of selected vessels so that the industry has assurances of the provenance of fish provided by these currently unmonitored vessels.











### **Developing Vessels Monitoring Units**







#### Minimum Requirements

#### Case

- Water proof
- Saltwater resistance

#### Power

- Solar powered
- More than 3 days without power
- <= 6 hours to recharge</p>

#### Temper-resistant

•e.g. alerts for unusual movements.

#### Data

- Send: Date time, speed & course, unique id
- Frequency: Every minute or Less
- Security: Encryption
- Storage: > 30 days positional data

#### Low Price

- Cellular Network
- •3G 4G or IOTs



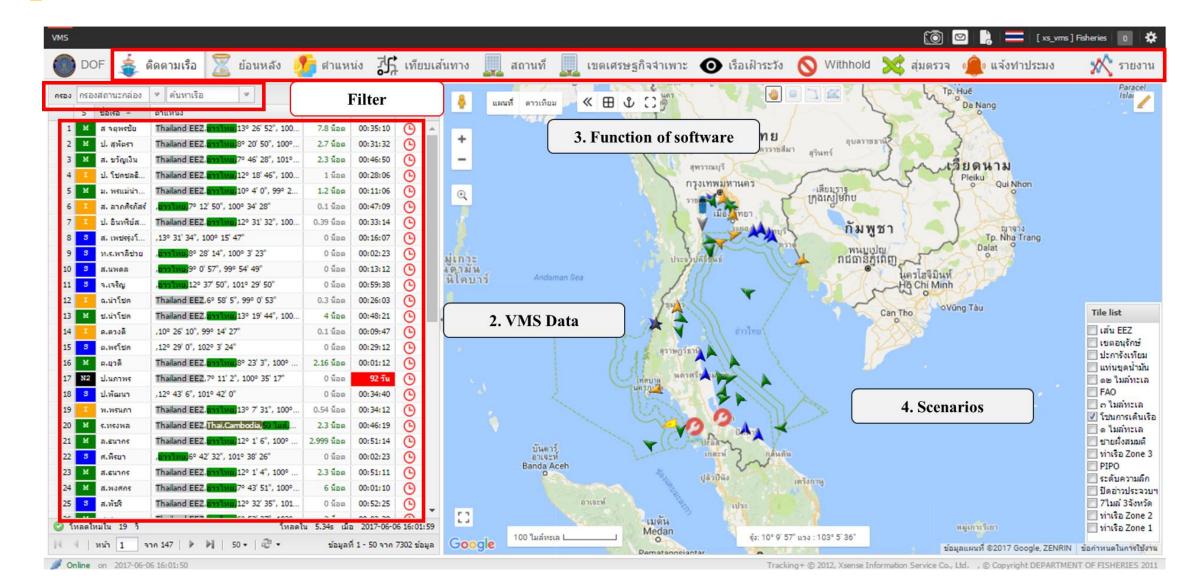












## **Small-Scale Farmers**

Cases in Nakhon Sri Thammarat and Surat Thani Province





### **SEACOSYSTEM Approach and Initiatives**









- Hat Sai Keaw, Surat Thani Province
- Hua-sai,
  Nakhon Sri Thammarat
  Province



### **Creating Opportunity with Seafood Standard** Hat Sai Keaw, Surat Thani Province





















Marine Resource Improvement Activities Sustainable Fishing Gears and Practices

Aggregate and Transportation Traceability and Quality standard according to the buyer

Processing Plant with quality control and audit

#### Seafood Standard





Marine Resource Improvement



Quality Product





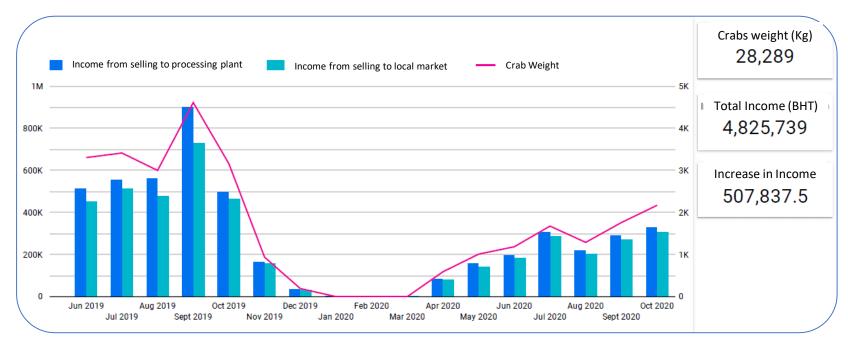
# Creating Opportunity with Seafood Standard Hat Sai Keaw, Surat Thani Province





Standard that incorporates quality (set up by buyer) and sustainability that is agreed among the villagers

- 1. Participate in sustainability development activities including fish stocks enhancement and habitats
- 2. Fishing gear with mesh size that is larger than3.5 inches to prevent catching juveniles' crabsand fish
- 3. All fishing vessels must be registered and legally licensed
- 4. Do no catch crabs with eggs during the predefined no-catch season
- 5. Do not use chemicals for preserve the freshness of the fish
- 6. Keep documents (log book) for traceability





Meeting with the buyer



Encourage the local buyer to participate in sustainability development



# The Co-operation of Charoen Pokphand Group and Hua-Sai Local Fishery Association









## Sustainable life via furthering development, creating incomes and adding values to products.

- Shaping market forces by encouraging fishermen communities as marine resources provider to set the market price, trading with the least middlemen possible.
- Seafood processing under the brand of "Roy Yim Chao Lay" (Fishermen Smile), focusing on the idea of "Sustainable life via business" that brought community problems to be analyzed and solved through conducting business in order to achieving development in quality of life for the local community, leading to sustainable self reliance.



# The Co-operation of Charoen Pokphand Group and Hua-Sai Local Fishery Association





#### Sustainable life via furthering development, creating incomes and adding values to products.

Providing support in marketing, promoting online sales, creating income and sustainable life.











# The Co-operation of Charoen Pokphand Group and Hua-Sai Local Fishery Association





#### Sustainable life via furthering development, creating incomes and adding values to products.

• Further develop processed seafood, adding values whether by building **GMP** and **FDA** standard processing house, enabling more business opportunity and developing new processed seafoods

• CP Group together with Fishery Communities Network are developing "Sustainable Fishery Standard"

 Promoting sustainable life via business idea, creating employments, jobs, incomes leading to development for the fishermen quality of life in 12 networks, 7 areas, consisted of 1,056 household in Nakhon Sri Thammarat province.

To achieve this, **Hua-sai Local Fishery Association** will be the blueprint area for learning and the center for gathering marine resources from networks for processing and trading.