

การสำรวจข้อมูลด้านเศรษฐกิจสังคมของ ชุมชนประมง

Socio-economic Survey in Fishing Community

Fisheries context

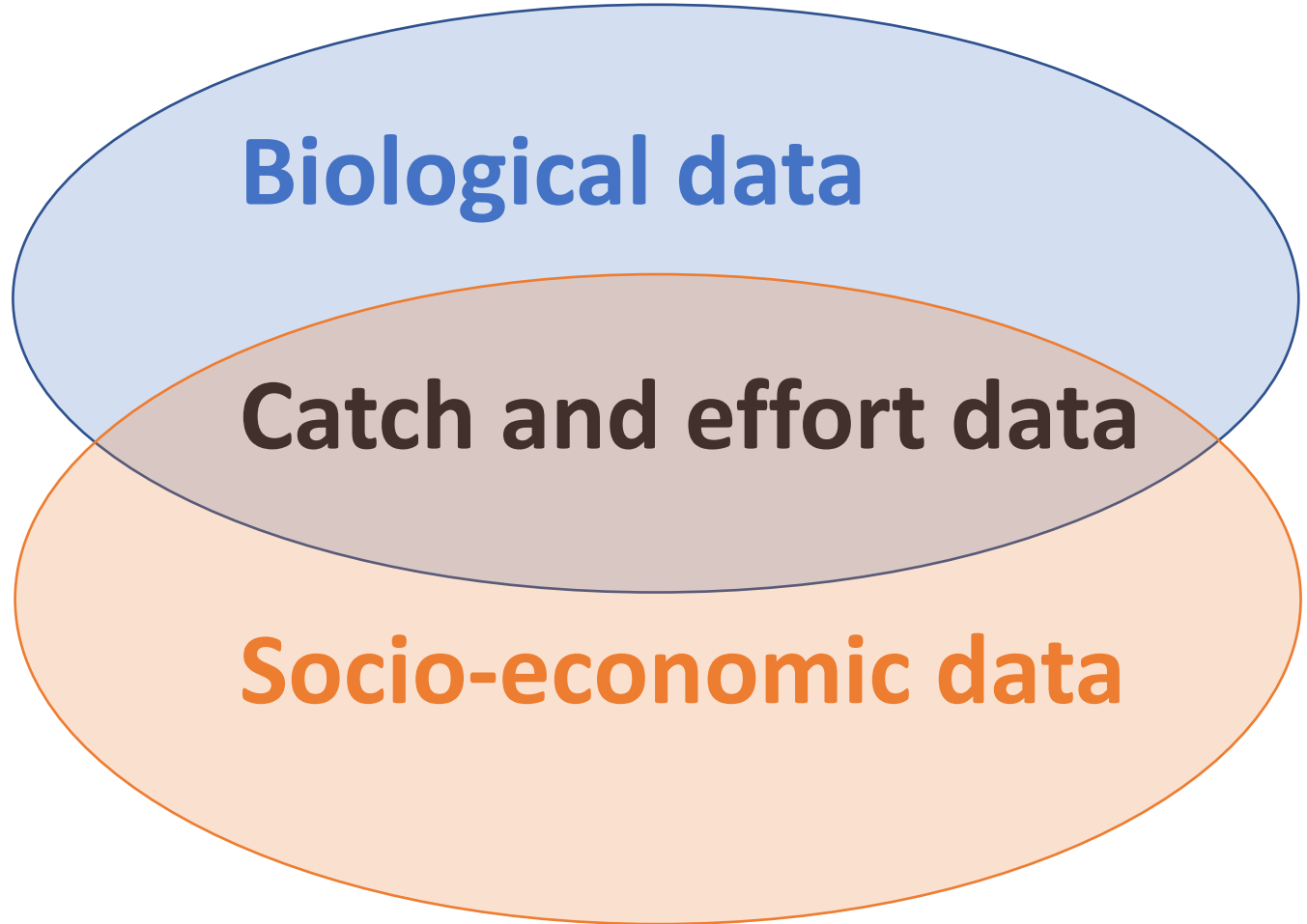
**Fish stock
(resources)**

**Fishers
(Human)**

Biological data

Catch and effort data

Socio-economic data



Why do we need socio-economic data?

“Understanding the socio-economic conditions and demography in the fishing communities”

- **Provide information for planning and management activity**
- **Baseline for future monitoring and evaluation (M&E)**

When do we need to collect the data?

- Purposes
- Develop program & project activities
- Policy formulation
- Monitoring development outcomes

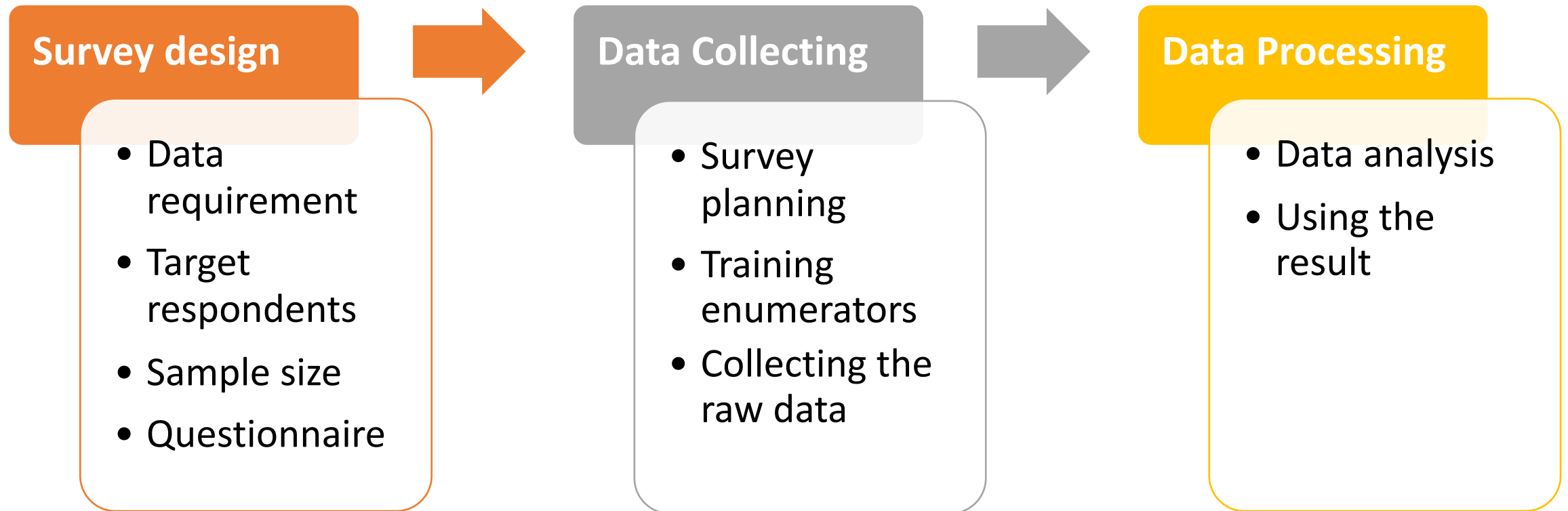




Example socio-economic data

- **General information:** Age, gender, education level, income, occupation, household members
- **Fisheries:** fishing boat, fishing gear, catch species, cost, catch distribution,
- **Others:** group participation, gender role, financial access, impact of covid-19, *etc.*

How to conduct the socio-economic survey?



Step 1 Survey design

- **Data requirement:** Primary & Secondary data (document, report, internet)
- **Target respondents:** individual/household
- **Sample size:**
 - consider available resources (time, budget, human)
 - Calculation by Yamane's formula
- **Questionnaire:** structured question depend on information required
 - Open question (respondents answer in their own word)
 - Close question (provide answer choice)



Example of Questionnaire

1. About Family

(1)About Respondent

Name	Nickname	Sex	Age	Educational background,
		☐ Male ☐ Female		☐ Pri ☐ 2High ☐ 3Voc ☐ 4Bac ☐ 5Oth

(2)About household members:

	Relationship, sex	Age	Educational background	Main occupation
1	☐ M ☐ F		☐ 1Pri ☐ 2High ☐ 3Voc ☐ 4Bac ☐ 5Oth	☐ 1Fis ☐ 2Aqu ☐ 3Agr ☐ 4Lab ☐ 5Bus ☐ 6Gov ☐ 7Oth
2	☐ M ☐ F		☐ 1Pri ☐ 2High ☐ 3Voc ☐ 4Bac ☐ 5Oth	☐ 1Fis ☐ 2Aqu ☐ 3Agr ☐ 4Lab ☐ 5Bus ☐ 6Gov ☐ 7Oth
3	☐ M ☐ F		☐ 1Pri ☐ 2High ☐ 3Voc ☐ 4Bac ☐ 5Oth	☐ 1Fis ☐ 2Aqu ☐ 3Agr ☐ 4Lab ☐ 5Bus ☐ 6Gov ☐ 7Oth
4	☐ M ☐ F		☐ 1Pri ☐ 2High ☐ 3Voc ☐ 4Bac ☐ 5Oth	☐ 1Fis ☐ 2Aqu ☐ 3Agr ☐ 4Lab ☐ 5Bus ☐ 6Gov ☐ 7Oth
5	☐ M ☐ F		☐ 1Pri ☐ 2High ☐ 3Voc ☐ 4Bac ☐ 5Oth	☐ 1Fis ☐ 2Aqu ☐ 3Agr ☐ 4Lab ☐ 5Bus ☐ 6Gov ☐ 7Oth
6	☐ M ☐ F		☐ 1Pri ☐ 2High ☐ 3Voc ☐ 4Bac ☐ 5Oth	☐ 1Fis ☐ 2Aqu ☐ 3Agr ☐ 4Lab ☐ 5Bus ☐ 6Gov ☐ 7Oth
7	☐ M ☐ F		☐ 1Pri ☐ 2High ☐ 3Voc ☐ 4Bac ☐ 5Oth	☐ 1Fis ☐ 2Aqu ☐ 3Agr ☐ 4Lab ☐ 5Bus ☐ 6Gov ☐ 7Oth
8	☐ M ☐ F		☐ 1Pri ☐ 2High ☐ 3Voc ☐ 4Bac ☐ 5Oth	☐ 1Fis ☐ 2Aqu ☐ 3Agr ☐ 4Lab ☐ 5Bus ☐ 6Gov ☐ 7Oth

* Eduction: 1.Primary School 2.High School 3. Vocational school4. Bachelor and higher 5. Other(Illiterate)

* Occupation : 1.Fisheries, 2 Aquaculture, 3 Agriculture, 4 Labor, 5 Business, 6 Government 7. Others

(3)About former address and former job

	Former address (City.Province.Country)	How many year, you have been in this village	Former occupation	Experience in Fisheries/ Aquaculture(year)
Respondent (Fishermen)			☐ 1Fis ☐ 2Aqu ☐ 3Agr ☐ 4Lab ☐ 5Bus ☐ 6Gov ☐ 7Oth	

2. Livelihood

	Percentage of self-consumption weight of products (%)	Amount of estimated annual income and cost*2 (Baht)		Percentage of income in family budget (%)
		Income	Cost	
Fishing				
Aquaculture				
Agriculture				
Livestock				
Trading				
Laboring				
Marine Product Processing				
Other Processing				
Government				
Others	Income from remittances			
	Income from lending money			
	Saving	Amount	Bath	
Other sources not listed above				

3. Fisheries and aquaculture

3.1 Fisheries

(1) How many fishing boat do you have?

Number of boat	Length (m)	Power	Engine	Engine Power (HP)
1		☐ non-power ☐ power (☐ out-board ☐ In-board)	☐ Diesel ☐ Gasoline/benzene	
2		☐ non-power ☐ power (☐ out-board ☐ In-board)	☐ Diesel ☐ Gasoline/benzene	
3		☐ non-power ☐ power (☐ out-board ☐ In-board)	☐ Diesel ☐ Gasoline/benzene	

Step 2 Data collecting



- **Survey planning:**
 - Discuss with head of village (work plan, timeframe)
- **Training enumerators:**
 - Trail field survey, familiar with questions
 - Revise & prepare questionnaire
- **Collecting the raw data**
 - Household survey (Face to face interview)
 - Key informant interview
 - Focus Group discussion

Step 3 Data Processing

- **Data analysis**
 - Quality check (error)
 - Statistical software (Ms. Excel, SPSS, R program)
- **Using the result**
 - Preparation of tables and graphs
 - Communicate the result (report, paper, website)



Experiences from SEAFDEC/TD project

The Community-based Resources Management/Co-management (2017-2019)

Lao PDR:

- Nam Xouang Reservoir, Vientiane
- Khammouane Province

The Small-scale Fisheries Management for Better Livelihood and Fisheries Resources (2020-2024)

Thailand:

- Ranong Province

CBRM/Co-management pilot site in Lao PDR



Nam Xouang Reservoir

- Located middle of Lao PDR
- Irrigation for rice paddy field
- gill net, cast net, lift net, hook, and spear



Khammouane Province

- Mai Nampakan Village
- Located along the Nam Pakan River
- Engage in Fisheries and Agriculture
- Gill net, hook and line

Field survey in target area

- To clarify the current status and problems
- To determine the objective, output and activity of the project
- Identify needs of the village
- Develop appropriate activities



Field survey

- Interview villagers
- Focus on livelihood, problems & fisheries resources
- Use information to develop program/activities



Project activities in Nam Xouang Reservoir

Establishment FMC



fish processing



Fish restocking programs:



Strengthen Fishery rules & regulations



Conservation zone demarcation



Project activities in Khammouane Province

Establishment of FMC



- ✓ Study tour
- ✓ Surveillance activity
- ✓ Fish releasing

Alternative livelihood Program



Small-scale Fisheries Management for Better Livelihood and Fisheries Resources

Ranong Province, Thailand

Implement EAFM concept in Ranong Province



Pre survey in fishing community for selecting FMU

- **Consultation meeting** with Department of Fisheries to discuss on appropriate FMU
- Conduct pre survey to select the FMU
- Discuss with community
- **Ban Hat Sai Khao Community** is selected to be the Fisheries Management Unit (FMU)



Study on the status of fisheries socio-economic



- Information need for developing FM plan
- Conduct baseline survey in Ban Hat Sai Khao for 42 samples
- Better understanding the pilot area
- Include Gender study

Key stakeholder engagement workshop on the development of EAFM plan

- Finalize draft EAFM plan for Ban Hat Sai Khao community

Ecological

- Enhance the fisheries resources and rehabilitate fish habitats (squid Bank)

Governance

- Increase efficiency in law enforcement through the better knowledge of fisheries law and regulations

Human

- Increase a household income by promoting fish processing activities (Fish processing activity)



Lesson learned

- Survey timing: find the time that fishers come back from fishing
- Should not take more time for interview
- Use simple word for easy understand when asking questions
- Provide souvenir for data providers
- Check data collected before leaving village (may incomplete)



Activity

- **Divide into two group**
- **Develop Questionnaire for socio-economic survey in fishing community (Target site: Rayong Province)**
- **Addition question for impact of COVID-19**
- **Role play: interview fishers**

Thank you

