

# SUMMARY ON COUNTRY INPUTS AND LITERATURE REVIEW (step 1)

Presented by:

SOMBOON SIRIRAKSOPHON

TCM-RAP

AGENDA 4.2









No.	Questions	INPUTS FROM CAM, MY, TH, PH, MFRDMD
1	To achieve a sustainably management of Rastrelliger brachysoma resources in national EEZ and at Sub-regions (GoT/SCS), what are the issues/knowledge gaps/scientific questions/priority areas should be addressed based on your opinion/expertise and country requirements.	National level: Insufficient data on population and abundance small size identification study on otolith (to know age of fish) DNA study restudy on migratory route, spawning ground (to recheck) conduct study to collect both data capture production and biology Regular monitor data collection on capture production Stock status of R brachysoma (distribution and abundance) Population dynamics (Growth parameters, mortalities and relationship to other regional stock) Spawning grounds and season on R brachysoma in SCS Fisheries Management Plan Effects/Loss to IUUF (esp. poaching) Review on existing and effectiveness of regulations Actual effort to exploit the resources develop co-management schemes/arrangements.  Sub-regional level: data collection needs to standardize (before combine the data) stock assessment for transboundary species Population dynamics Stock structure study on migratory route, spawning ground Transboundary distributions transboundary management mechanism/plan Insufficient biology and landing data collection Data sharing Lack of management body Multi gear to harvest







2¤	Please elaborate on the roles of the four cross-	■ DNA study¶ ■ Otolith¶
	cutting themes in	Data collection (make the same standard in each country)
	addressing these	• Data analysis¶
	science questions to	Stock assessment for transboundary species
	support the future	Modeling for stock assessment
	actions on RAP if any	■ knowledge on identification of species, biology and analysis¶
	¶	• fishing gear technology, ¶
	A. Capacity building	■ databasesoftware.
	and technology	■ Traceability system using technology-logbook
	transfer·¤	Traceability system using technology-logbook
	transier =	Role of partnership: ¶
		Improved capacities among countries (i.e. stock assessment, data
		collection, enforcement, etc.) will harmonize management strategies
	D. Datantial	and measures for the stock.¤
Ħ	B. Potential	• University¶
	Partnerships (at	Scientist among regional country
	country, Regional	• SEAFDEC¶
	and international)¶	◆ AMS¶
	¤	Regional Action bodies: GEF, IOTC
		Hokkaido University
		National Fisheries Research Institutions
		¶
		Role of partnership:¶
		This will improve management of the transboundary stock by access
		to data which will be useful in the collective assessment in the region.
		This will also result to a more realistic/reliable
		- The Will died reducted their reduction of the control of the con







Ħ	C. Access to information, data and knowledge (such as satellite data, regional production data/statistic, ocean data simulation, etc.)	<ul> <li>Regional fisheries statistic data (SEAFDEC)¶</li> <li>Water quality data from Pollution Control Department¶</li> <li>Trawl base¶</li> <li>Ocean Forecasting system (e.g. IOC/WESTPAC, SEAGOOS, etc.¶</li> <li>Role of partnership¶</li> <li>This activity will improve participation among all stakeholders on responsible practices¤</li> </ul>
·¤	D. Communication and awareness raising ¶ ¶ ■	<ul> <li>Educate people and student in fisheries communities¶</li> <li>Distribute brochures or any media to promote of fisheries management¶</li> <li>Raise awareness of both small-scale fishers and commercial fishers¶</li> <li>Sharing of the findings to both policy management level and fishermen¶</li> <li>develop consultation among researchers, managers and stakeholders (EAFM)¶</li> <li>support the Sustainable management concept, Co-management, and EAFM.¤</li> </ul>



## LIST OF KNOWLEDGE GAPS/ISSUES BY TARGET COMPONENT(step 2)

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#### COMPONENT 1: DATA AND INFORMATION

- Insufficient landing data, biological data collection for population and abundance study
- · study on migratory route, spawning ground
- Regular monitor data collection on capture production
- Identify Spawning grounds and seasons

## COMPONENT 2: UNDERSTAND THE FISH STOCK STATUS

- DNA study
- Stock status of R brachysoma (distribution and abundance)
- · Population dynamics (Growth parameters, mortalities and relationship to other regional stock)
- Actual effort to exploit the resources
- stock assessment for transboundary species
- Stock structure
- · transboundary distributions
- Multi-fishing gears to harvest

#### **COMPONENT 3: MANAGEMENT RESPONSES**

- Fisheries Management Plan
- Review on existing and effectiveness of regulations
- develop co-management schemes/arrangements
- transboundary management mechanism/plan
- Effects/Loss to IUU fishing
- database- software
- Traceability system using electronic logbook
- support the Sustainable management concept, Co-management, and EAFM











## **COMPONENT 4: AWARENESS BUILDING**

- Educate people and student in fisheries communities
- Distribute brochures or any media to promote of fisheries management
- Raise awareness of both small-scale fishers and commercial fishers
- Sharing of the findings to both policy management level and fishermen
- develop consultation among researchers, managers and stakeholders (EAFM)
- to support the Sustainable management concept, Co-management, and EAFM

#### COMPONENT 5: STRENGTHEN REGIONAL COOPERATION

- Standardized data collection for regional stock assessment
- Data sharing
- Lack of management body
- Develop the transboundary management mechanism/plan

### COMPONENT 6: STUDY THE ENVIRONMENT IMPACT

- Temporary disappear of short mackerel in the Gulf of Thailand
- IMPACT of climate change to fish migration route

#### COMPONENT 7: ENHANCE CAPACITY BUILDING

- Inadequate knowledge on research works as follows:
  - o Species identification of small size (juvenile) and larval fishes
  - o otolith (to know age of fish)
  - Data collection at landing sites: catch and biological data
  - Data analysis
  - Stock Assessment and modeling for stock assessment
- Fishing gear technology









