



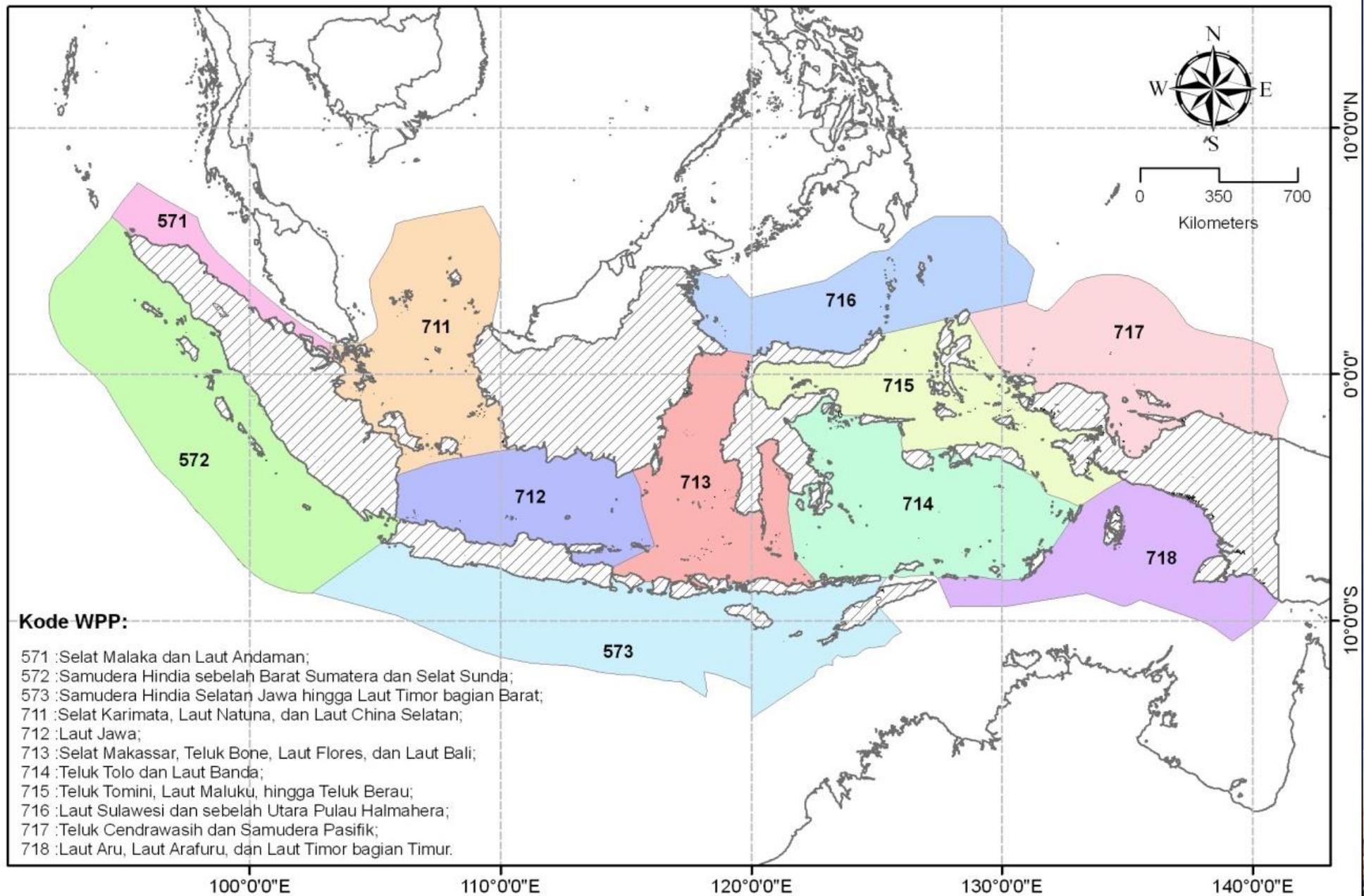
# NATIONAL SITUATION REPORT:

# PLANNED ARRANGEMENT FOR THE OPERATION OF FISHERIES REFUGIA PROJECT IN INDONESIA

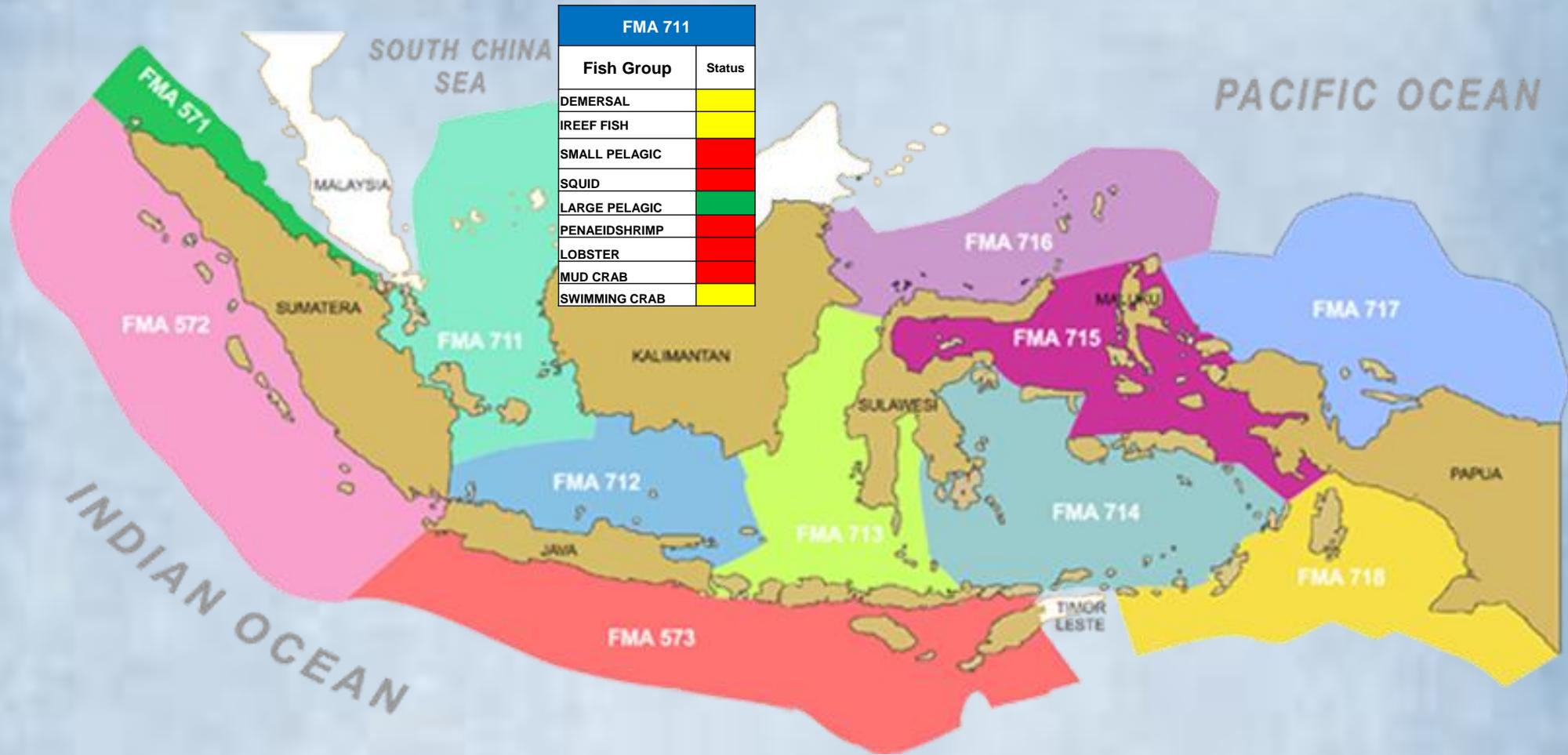


DIRECTORATE GENERAL OF CAPTURE FISHERIES  
MINISTRY OF MARINE AFFAIRS AND FISHERIES

# INDONESIA FISHERIES MANAGEMENT AREA (FMA)



# LEVEL OF FISH EXPLOITATION IN FMA 711

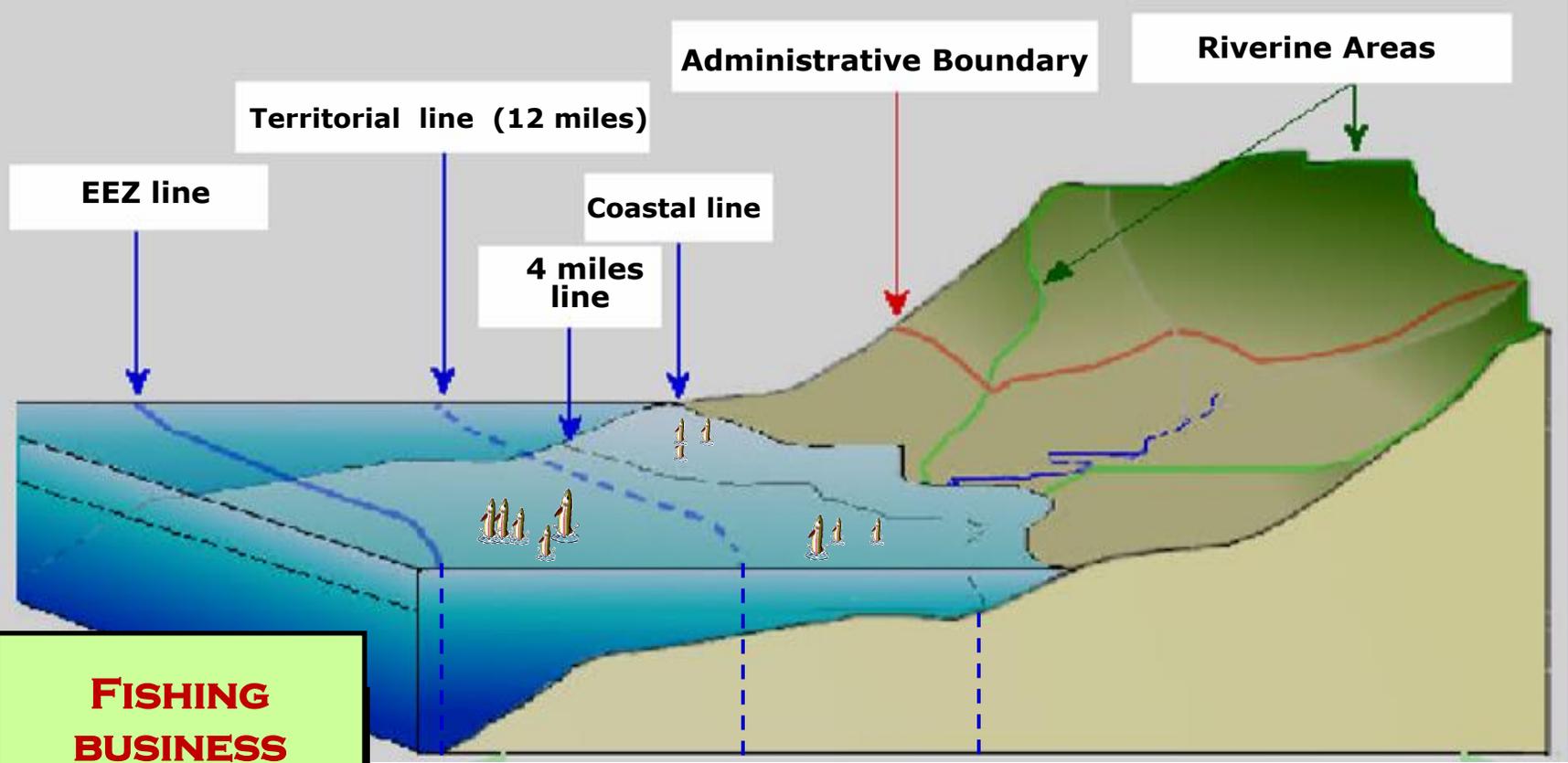


FMA 711	
Fish Group	Status
DEMERSAL	Yellow
IREEF FISH	Yellow
SMALL PELAGIC	Red
SQUID	Red
LARGE PELAGIC	Green
PENAEIDSHRIMP	Red
LOBSTER	Red
MUD CRAB	Red
SWIMMING CRAB	Yellow

LEGENDS	
O	Over-exploited
F	Fully-exploited
M	Moderate

SOURCE: MMAF DECREE NO. 47 YEAR OF 2016 CONCERNING MSY, TAC AND EXPLOITATION LEVEL OF FISH RESOURCES IN INDONESIA FISHERIES MANAGEMENT AREA

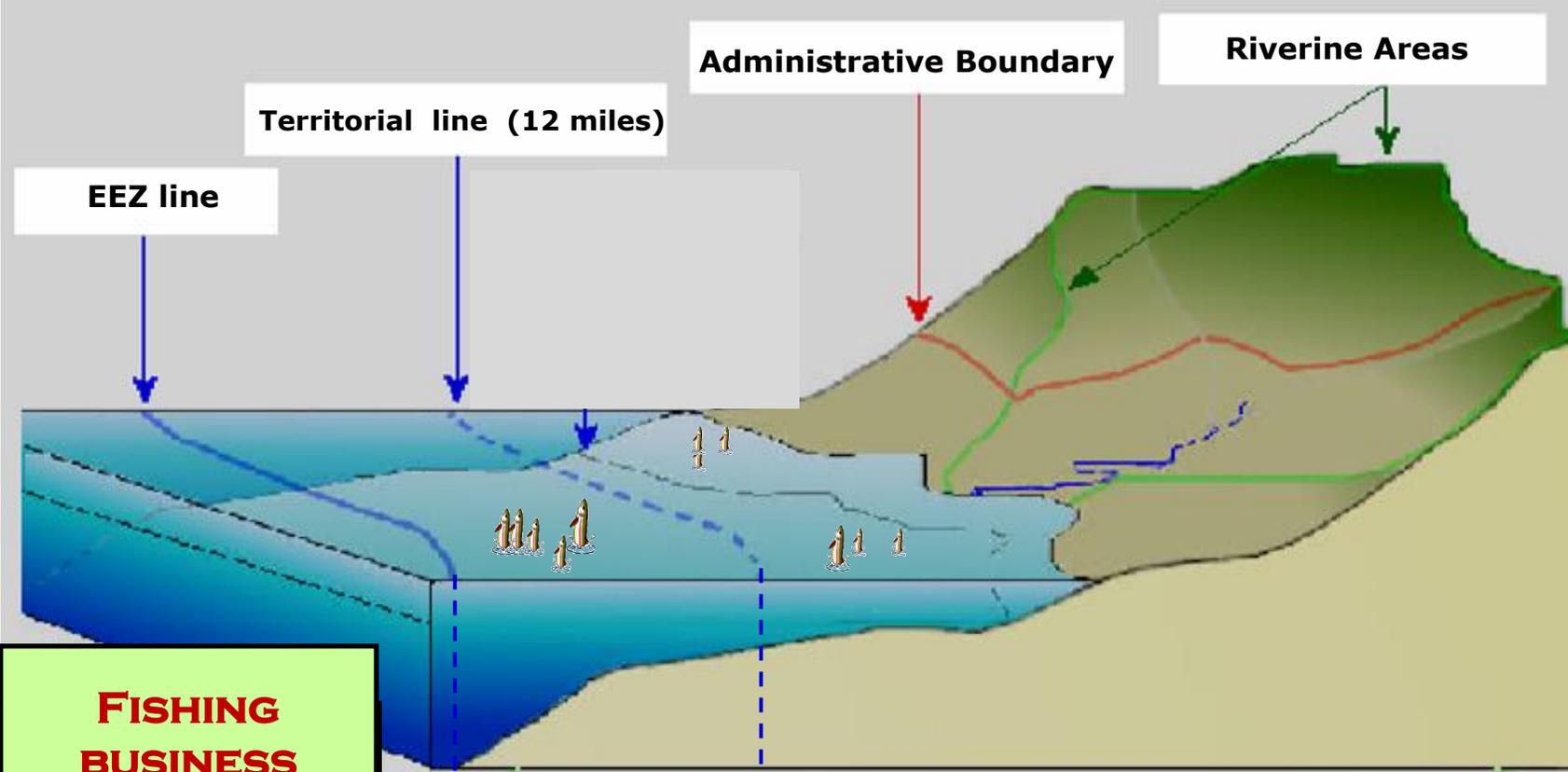




Vessel Size (GT)	<b>FISHING BUSINESS AUTHORITY</b>
>30	Central Government
>10-30	Provincial Government
≤10	District Government

**Central Provincial District**

**FISHERIES MANAGEMENT AUTHORITIES**  
 ACT No. 32/2004

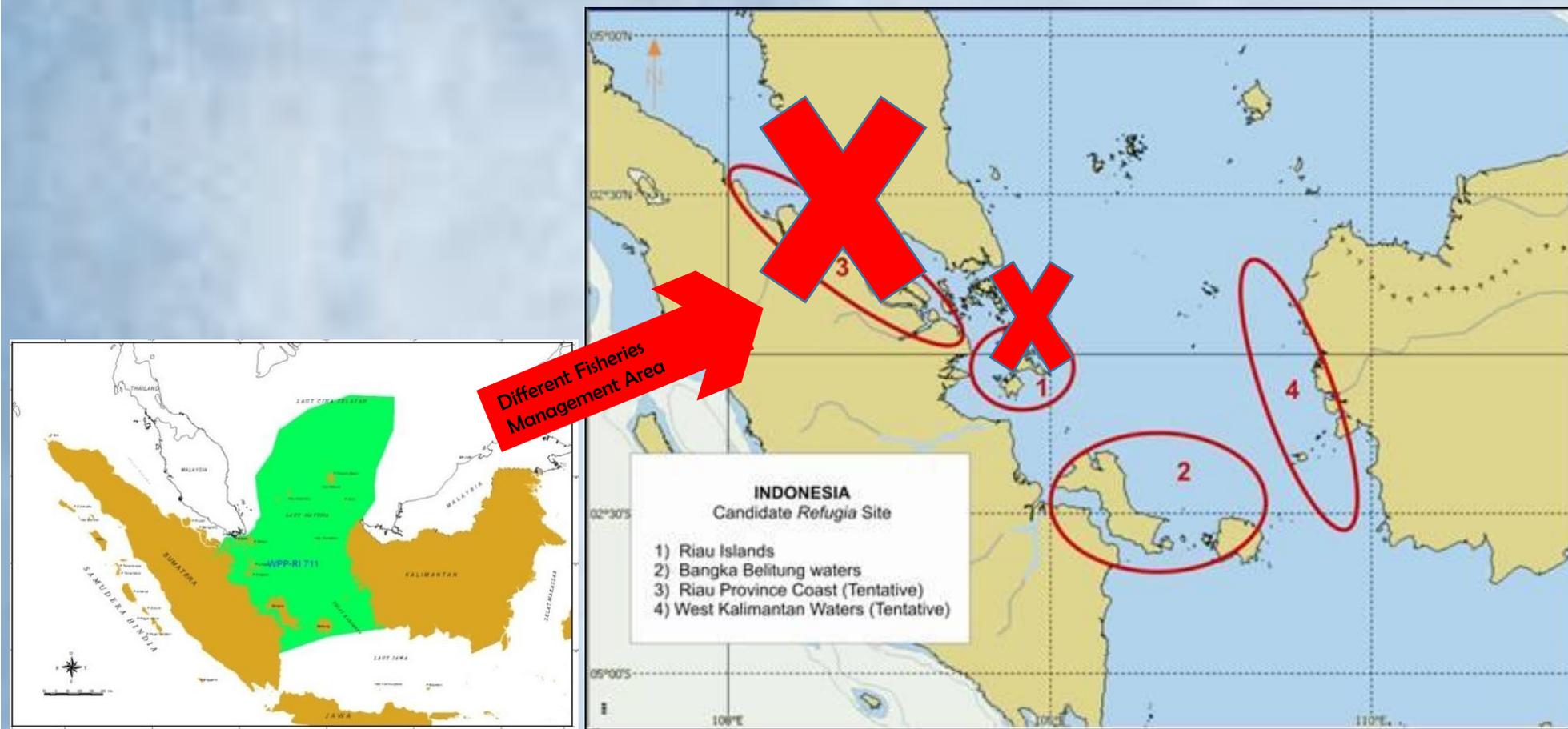


Vessel Size (GT)	<b>FISHING BUSINESS AUTHORITY</b>
>30	Central Government
≤30	Provincial Government

Central Provincial

**SHIFTING ON FISHERIES MANAGEMENT AUTHORITIES**  
 ACT No. 23/2014

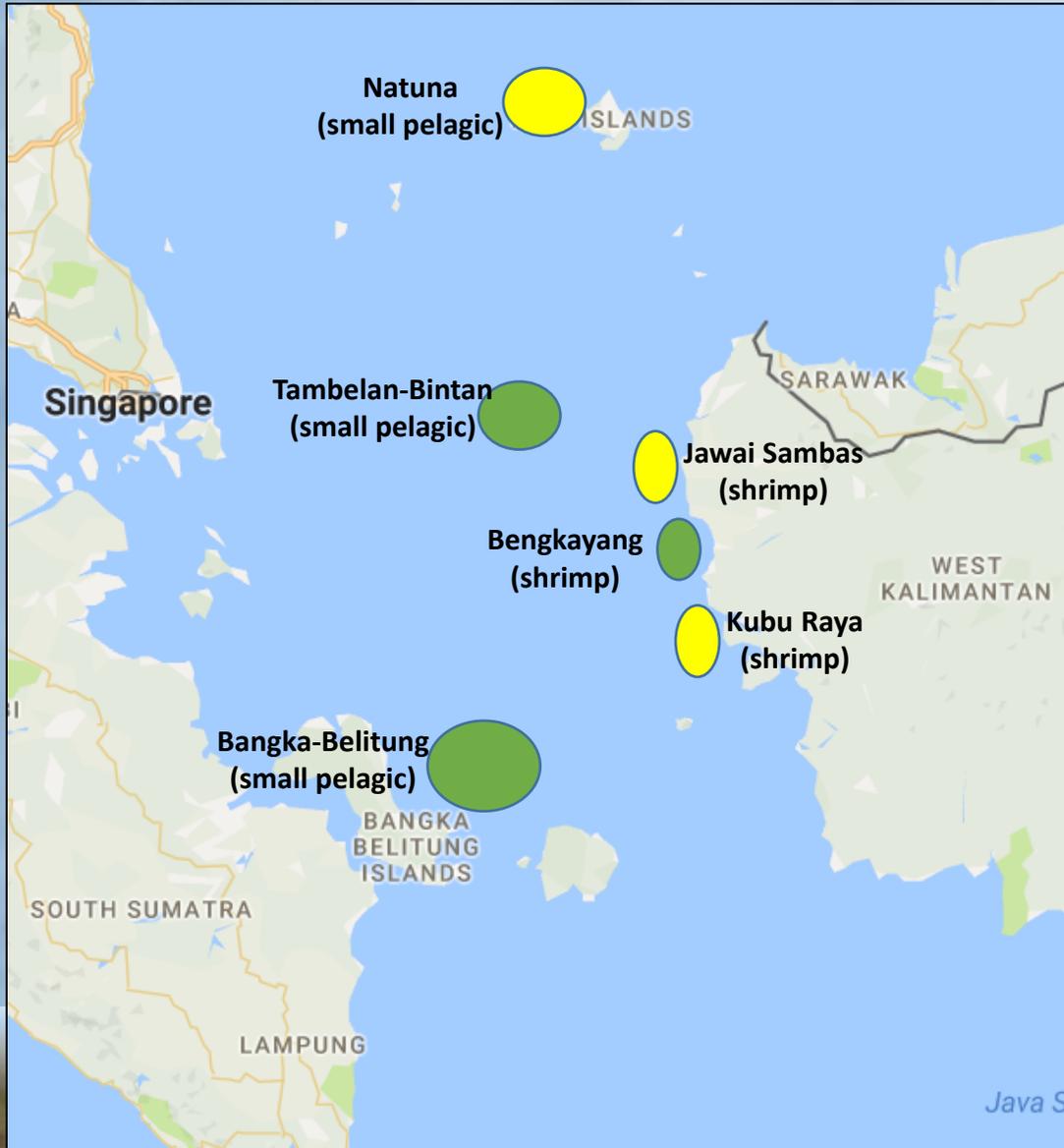
# PROPOSED FISHERIES REFUGIA SITES



NATIONAL PREPARATION WORKSHOP (FEBRUARY 2014):

- The latest scientific evidences justified that Site 1 no more relevant for Fisheries Refugia,
- The proposed area is also too vast and in-efficient to be managed as fisheries refugia sites.
- It has been recommended to establish fisheries refugia system in more spesific site and only to be established in the FMA711, where the South China Sea is a part of this fisheries management areas.
- This strategy is taken to accelerate the establishment of fisheries refugia system indonesia and at the same time, the project also will

# NEW PROPOSED FISHERIES REFUGIA SITES



Agreed during National Preparation Workshop  
(February 2014):

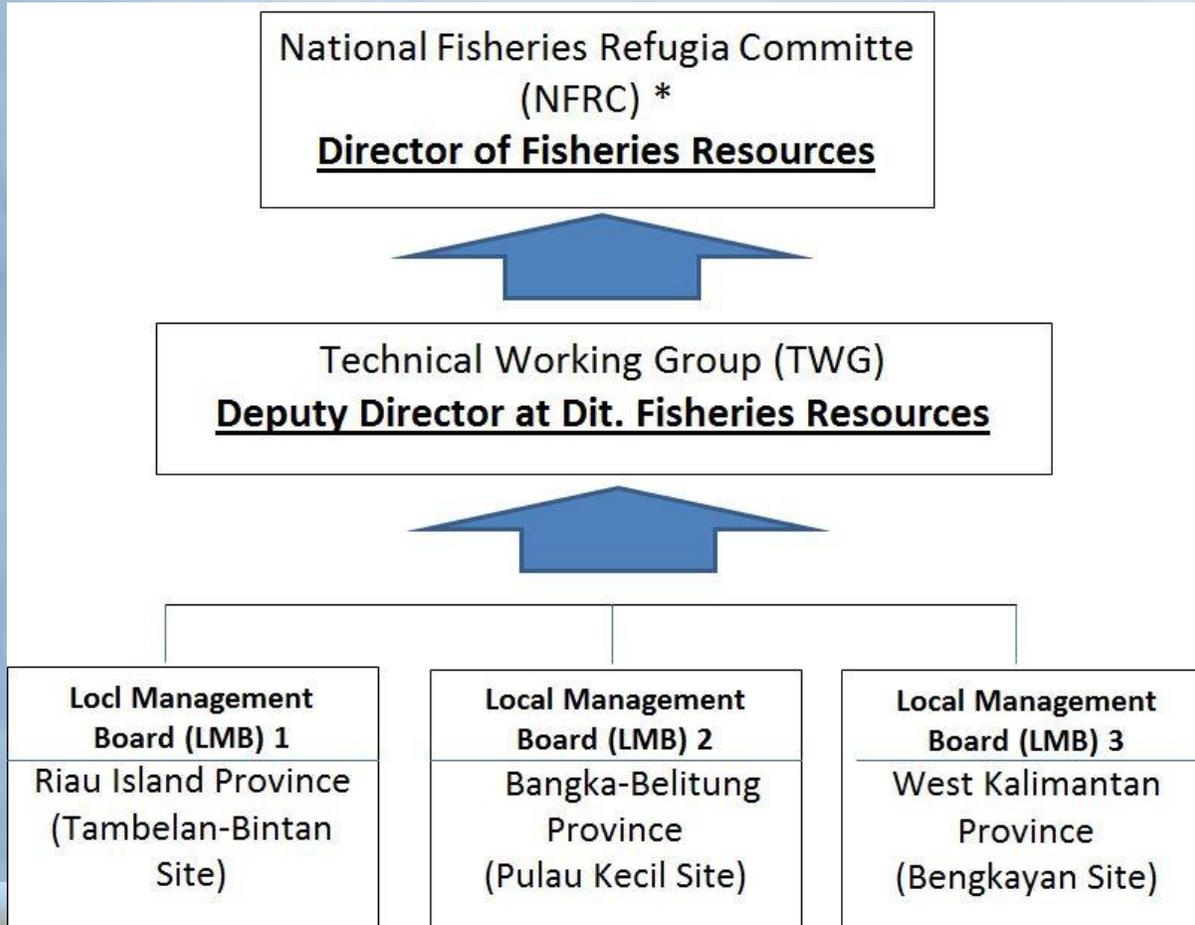
- (1) Pulau Kecil (Bangka-Belitung Province) for small pelagic,
- (2) Tambelan-Bintan (Riau Islands Province) for small pelagic, and
- (3) Bengkayang (West Kalimantan Province) for panaeid shrimp.

Other identified areas can be considered as high priority for the next replication after the success implementation on the 3 (three) new proposed said.



# NATIONAL COORDINATION MECHANISM

Directorate General of Capture Fisheries, MMAF will be the national lead agency for the establishment and operation of fisheries *refugia* in Indonesia.



NFRC will provide guidance and endorse the technical management measures or policy formulation that will be developed by TWG to be submitted to Director General of CF for further endorsement.

TWG will be established and operated to provide advise to site-level management boards, the NFRC and the RSTC.

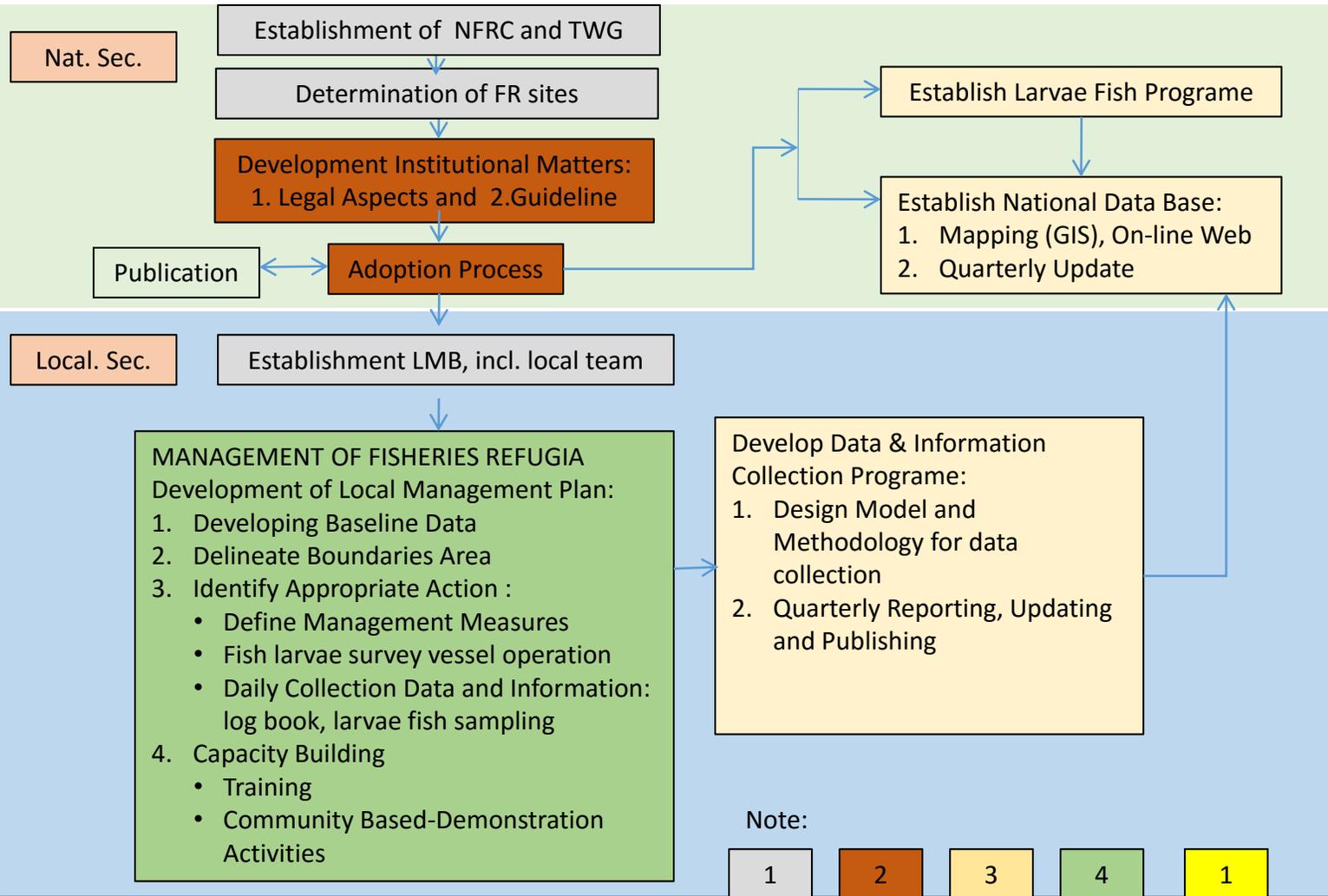
LMB will catalyze community-led planning of fisheries refugia management at priority sites

**Note:**

- \* Chairman of NFRC will be proposed as a member of Regional Project Steering Committee
- \*\* Chairman of TWG will be proposed as a member of Regional Project Steering Committee and Regional Technical Committee

# MECHANISM OF ESTABLISHMENT OF FISHERIES REFUGIA

PILOTING STAGE FOR SCS FRM AREA  
(2017-2020)



DEVELOPMENT STAGE  
(>2021)



# MEMBERSHIP OF NFRC

NO.	ORGANISATION	POSITION
1.	Directorate of Fisheries Resource Management, DG of Capture Fisheries (DGCF)-Ministry of Marine Affairs and Fisheries (MMAF)	Director (Chairman of NFRC)
2.	Directorate of Fishing Vessel and Gear, DGCF-MMAF	Director
3.	Directorate of Conservation and Marine Biodiversity, DG of Marine Spatial Management – MMAF	Director
4.	Directorate of Fisheries Resource Surveillance, DG of Marine And Fisheries Resources Surveillance-MMAF	Director
5.	Fisheries Research and Development Center, Research and Development Agency-MMAF	Director
6.	Marine and Coastal Resources Research and Development Center, Research and Development Agency-MMAF	Director
7.	Fishing Technology Development Center-Semarang	Director
8.	Fisheries Provincial Service of Riau Islands	The Head of Fisheries Provincial Service
9.	Fisheries Provincial Service of Bangka-Belitung	The Head of Fisheries Provincial Service
10.	Fisheries Provincial Service of West Kalimantan	The Head of Fisheries Provincial Service
11.	Fisheries District Service from Riau Islands Province	The Head of Fisheries District Service
12.	Fisheries District Service from Bangka-Belitung Province	The Head of Fisheries District Service
13.	Fisheries District Service from West Kalimantan Province	The Head of Fisheries District Service

# MEMBERSHIP OF TWG

No.	Organisation	Position
1.	Directorate of Fisheries Resource, Directorate General of Capture Fisheries (DGCF)-Ministry of Marine Affairs and Fisheries (MMAF)	Deputy Director (Chairman of TWG)
2.	Directorate of Fishing Vessel and Gear, DGCF-MMAF	Deputy Director
3.	Directorate of Conservation and Marine Biodiversity, DG of Marine Spatial Management – MMAF	Deputy Director
4.	Directorate of Fisheries Resource Surveillance, DG of Marine And Fisheries Resources Surveillance-MMAF	Deputy Director
5.	Fisheries Research and Development Center, Research and Development Agency-MMAF	Head of Division and Senior Researcher
6.	Center of Marine and Coastal Resources Research and Development, Research and Development Agency-MMAF	Head of Division and Senior Researcher
7.	Fishing Technology Development Center-Semarang	Deputy Director and Senior Fishing Engineer
8.	Indonesia Science Institute	Researcher (Fish larva and juvenile specialist)
9.	Fisheries Provincial Service of Riau Islands	Head of Capture Fisheries Division
10.	Fisheries Provincial Service of Bangka-Belitung	Head of Capture Fisheries Division
11.	Fisheries Provincial Service of West Kalimantan	Head of Capture Fisheries Division
12.	Fisheries District Service from Riau Islands Province	Head of Capture Fisheries Division
13.	Fisheries District Service from Bangka-Belitung Province	Head of Capture Fisheries Division
14.	Fisheries District Service from West Kalimantan Province	Head of Capture Fisheries Division
15.	Bogor Agriculture University	Academic researcher
16.	Riau University	Academic researcher
17.	Fisheries Association	Leader of Fisheries Association
18.	NGO (TBD)	TBD

# MEMBERSHIP OF LMB

No.	Organisation	Position
1.	Fisheries Provincial Service	Head of Capture Fisheries Division
2.	Province Planning Agency (Bappeda)	Head of Division
3.	Fisheries District Service	Head of Capture Fisheries Division
4.	District Planning Agency	Head of Division
5.	Local University (TBD)	Lecture
6.	Local Fisheries Association	Leader of Fisheries Association
7.	Local NGO	TBD
8.	Local Team	Leader of Local Team





# WORKPLAN & TIME-TABLE

**Table 1(b)** Work plan and timetable for national level activities of Component 2 of the SEAFDEC/UNEP/GEF Fisheries Refugia Project in Indonesia

Activity Description	Year 1				Year 2				Year 3				Year 4			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>COMPONENT 2: Improving the management of critical habitats for fish stocks of transboundary significance via national actions to strengthen the enabling environment and knowledge-base for fisheries refugia management in Indonesia</b>																
<b>2.1</b>	<b>Enhancing policy guidance for improved management of the effects of fishing on critical habitats</b>															
2.1.1																
2.1.2																
2.1.3																
2.1.4																
<b>2.2</b>	<b>Defining the policy and legal basis for formal designation and establishment of fisheries <i>refugia</i> in Indonesia</b>															
2.2.1																
2.2.2																
<b>2.3</b>	<b>Development of national guidelines on the establishment and operation of fisheries <i>refugia</i></b>															
2.3.1																
2.3.2																
2.3.3																
<b>2.4</b>	<b>Reforming national policy, legal and planning frameworks for demarcating boundaries and managing <i>refugia</i></b>															
2.4.1																
2.4.2																
2.4.3																
2.4.4																
<b>2.5</b>	<b>Enhancing access to information relating to status and trends in fish stocks and their habitats in Indonesian waters of the SCS</b>															



# WORKPLAN & TIME-TABLE

2.5.1	Compile information and data derived from abundance surveys for longer-term management																	
2.5.2	Compile information and data derived from surveys on size-frequency of priority species																	
2.5.3	Compile information and data on landings of priority species (volume/value, fishing areas and gears)																	
2.5.4	Produce annual syntheses reports of new and additional information for national and regional review																	
2.5.5	Revise national report on fish stocks and habitats in Philippine waters of the South China																	
<b>2.6</b>	<b>Improving national-level management and sharing of information and data on fish early life history in Indonesian waters of the SCS</b>																	
2.6.1	Prepare a national inventory of fish egg and larvae samples collected from Indonesia waters (both analysed and unanalysed)																	
2.6.2	Develop and maintain a national database of fish egg and larval fish distribution and abundance																	
2.6.3	Convene an annual one-day workshop to monitor the implementation of national programmes for the processing/analysis of fish egg and larvae samples																	
2.6.4	Prepare an annual status report on fish early life history research for consideration regionally																	
<b>2.7</b>	<b>Enhancing access to information relating to the locations and status of coastal habitats and management areas in Indonesian waters of the SCS</b>																	
2.7.1	Compile and update information and data in a National Google Earth based GIS on: distribution of habitats; known spawning areas; locations of refugia; MPAs; fisheries management areas; critical habitats for endangered species																	
2.7.2	Prepare annual synthesis of new and additional information included in database (2.7.1)																	
<b>2.8</b>	<b>Strengthening the information base for the planning, monitoring and evaluation of management at priority fisheries refugia sites</b>																	
2.8.1	Based on 1.1.4, produce detailed site characterizations for the 3 priority fisheries refugia sites for incorporation in national and regional datasets																	



# WORKPLAN & TIME-TABLE

**Table 1(c)** Work plan and timetable for national level activities of Component 3 of the SEAFDEC/UNEP/GEF Fisheries Refugia Project in Indonesia

Activity Description	Year 1				Year 2				Year 3				Year 4			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>COMPONENT 3: Information Management and Dissemination in support of national-level implementation of the fisheries <i>refugia</i> concept in Indonesia</b>																
<b>3.1</b>	<b>Enhancing national uptake of best practices in integrating fisheries management and biodiversity conservation</b>															
3.1.1.	Quarterly capture and documentation of best practices in the establishment and operation of fisheries refugia															
3.1.2	Online catalogue of best practices approaches and measures developed and updated each 6 months															
3.1.3	6 monthly development of communications on best practices for dissemination and syndication															
<b>3.2</b>	<b>Improving community acceptance of area based approaches to marine management</b>															
3.2.1	Produce locally appropriate public awareness and outreach materials to promote local social, economic and environmental benefits of fisheries refugia															
3.2.2	In connection with activity 1.4.3, implement targeted annual outreach programmes at priority communities															
3.2.3	Benchmark and annually track community acceptance of <i>refugia</i> approach as a marine spatial planning tool															
<b>3.3</b>	<b>Knowledge generated and experiences from establishing and operating fisheries <i>refugia</i> captured and shared nationally, regionally, and globally</b>															
3.3.1	Establish and operate national web portal for knowledge management on fisheries refugia															
3.3.2	Prepare and publish one GEF International Waters Experience Note on application of refugia approach															



# WORKPLAN & TIME-TABLE

**Table 1(c)** Work plan and timetable for national level activities of Component 3 of the SEAFDEC/UNEP/GEF Fisheries Refugia Project in Indonesia

Activity Description	Year 1				Year 2				Year 3				Year 4			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>COMPONENT 4: National coordination for integrated fish stock and critical habitat management in Indonesia</b>																
<b>4.1</b>	<b>Strengthened cross-sectoral coordination in the establishment and operation of fisheries refugia in Indonesia</b>															
4.1.1	Develop and agree ToR, membership & operational rules for National Fisheries <i>Refugia</i> Committee															
4.1.2	Establish and convene quarterly meetings of the National Fisheries <i>Refugia</i> Committee (NFRC)															
4.1.3	NFRC review and endorsement of quarterly work plans and progress and financial reports, including tracking of continuity of participation of stakeholders															
4.1.4	National NFRC inputs to mid-term review and terminal evaluation of national and regional aspects of project															
<b>4.2</b>	<b>Harnessing national scientific and technical expertise and knowledge to inform policy, legal and institutional reforms for fisheries <i>refugia</i></b>															
4.2.1	Establish and convene 6 monthly meetings of the National Technical Working Group															
4.2.2	Provision of technical and scientific inputs to planning of activities in components 1, 2 and 3															
<b>4.3</b>	<b>Catalyzing local community action via establishment and operation of site-based management boards at 3 priority <i>refugia</i> sites</b>															
4.3.1	Review governance arrangements at each site to identify required ToR and membership of site-based management boards, including links to other local planning bodies															
4.3.2	Establish and convene quarterly meetings of site-based management boards															
4.3.3	Preparation of quarterly work plans and progress and financial reports on activities at each site															



# Thank you

**MINISTRY OF MARINE AFFAIRS AND FISHERIES**  
**[DIRECTORATE GENERAL OF CAPTURE FISHERIES]**

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# KEY THREATS FOR FISHEREIS REFUGIA

- The twin problems of over-capacity and over-exploitation;
- Use of destructive and/or unsustainable fishing gear and practices;
- Pollution from fish processing facilities and small fishing vessels;
- Habitat destruction and pollution due to fish and shrimp farming; and
- Illegal fishing



# FOLLOW UP ACTION

