

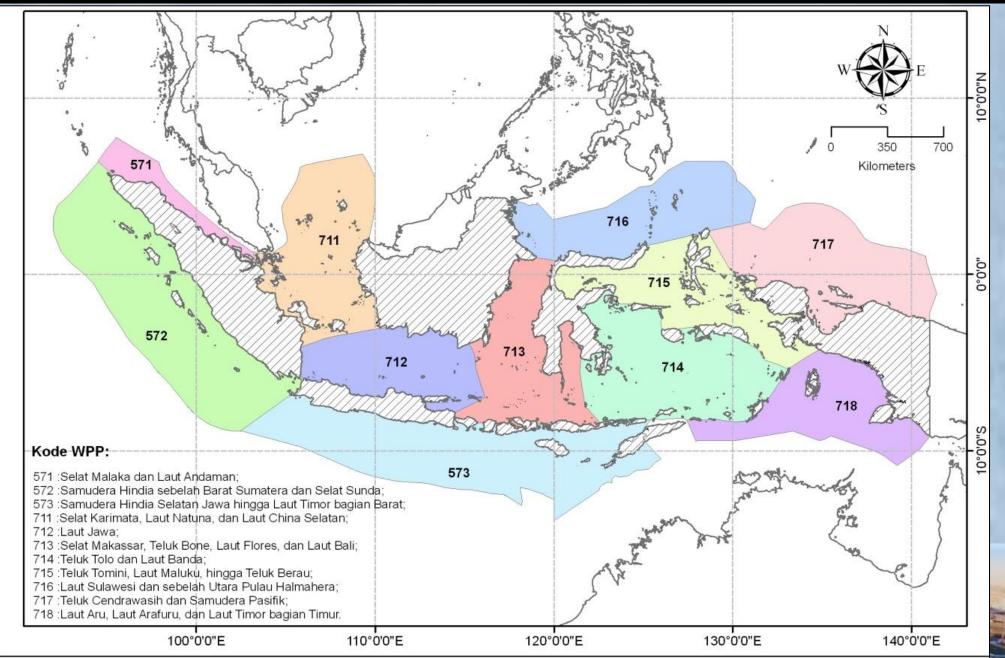
NATIONAL SITUATION REPORT:

PLANNED ARRANGEMENT FOR THE OPERATION OF FISHERIES REFUGIA PROJECT IN INDONESIA

DIRECTORATE GENERAL OF CAPTURE FISHERIES MINISTRY OF MARINE AFFAIRS AND FISHERIES

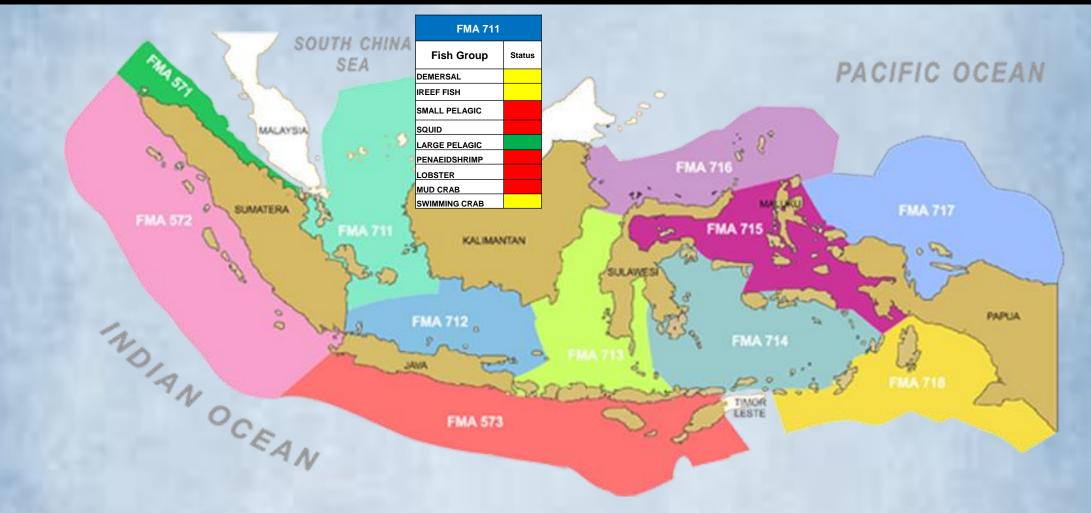
A COLOR

INDONESIA FISHERIES MANAGEMENT AREA (FMA)



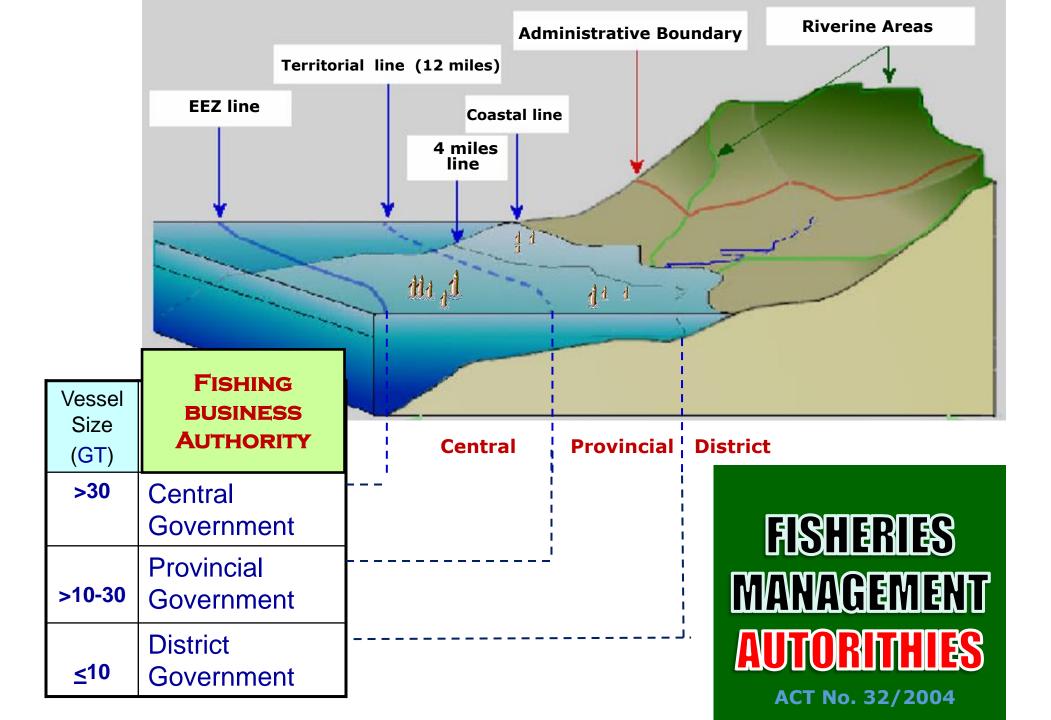
LEVEL OF FISH EXPLOITATION IN FMA 711

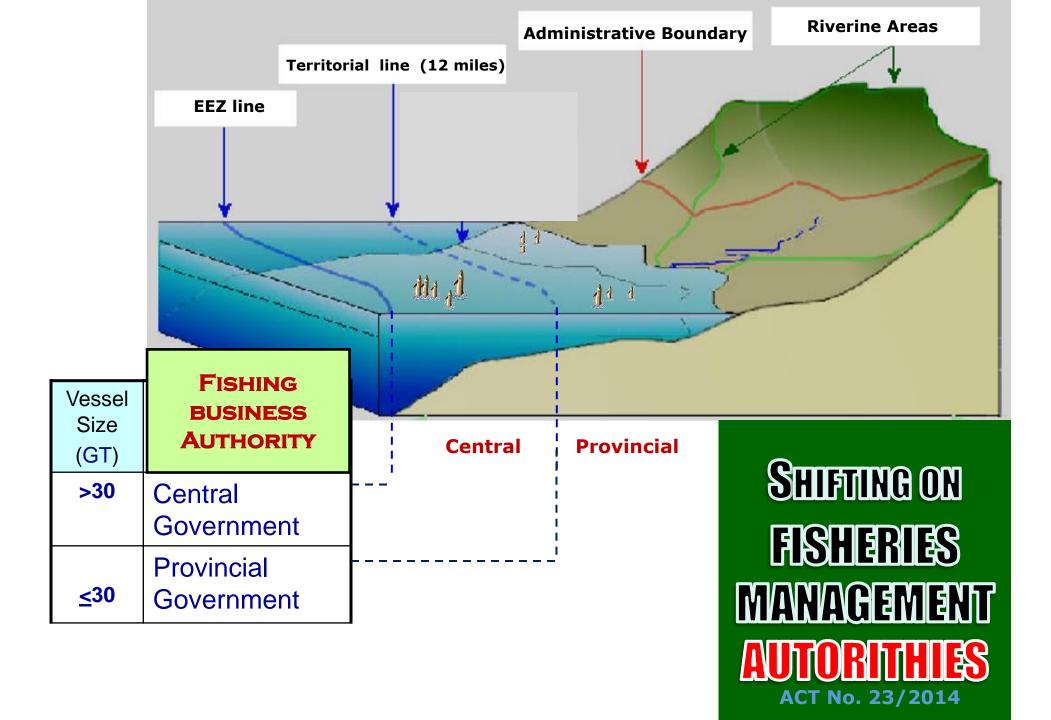
AND STATES



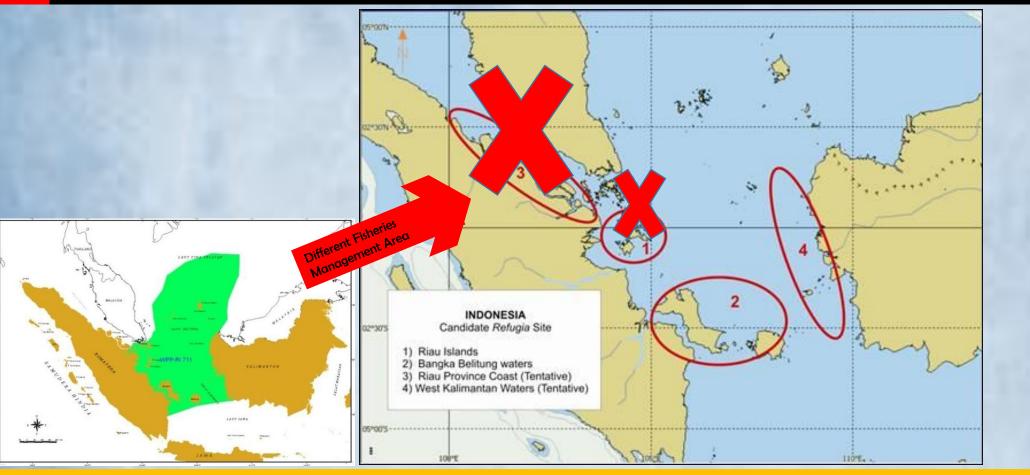
LEGENDS

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





PROPOSED FISHERIES REFUGIA SITES

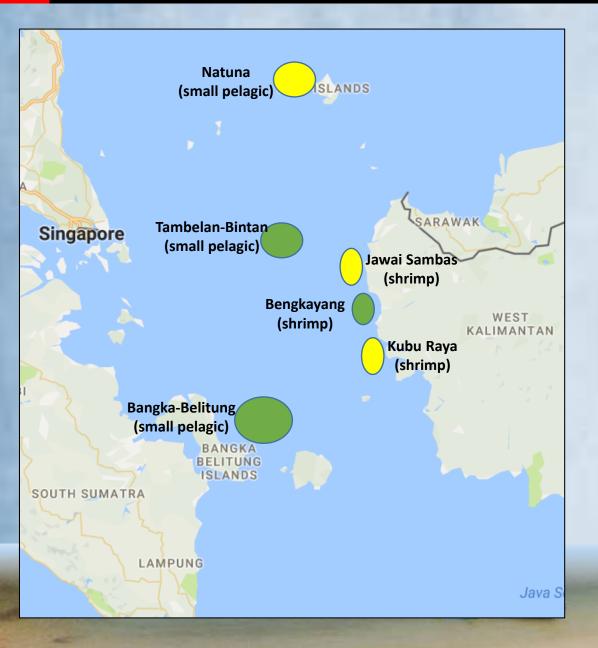


NATIONAL PREPARATION WORKSHOP (FEBRUARY 2014):

- □ The latest scientific evidances 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



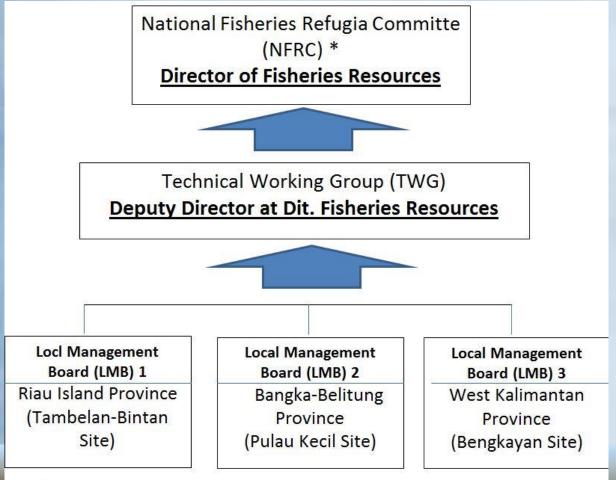
Agreed during National Preparation Workshop (February 2014):

- (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 implemention 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.

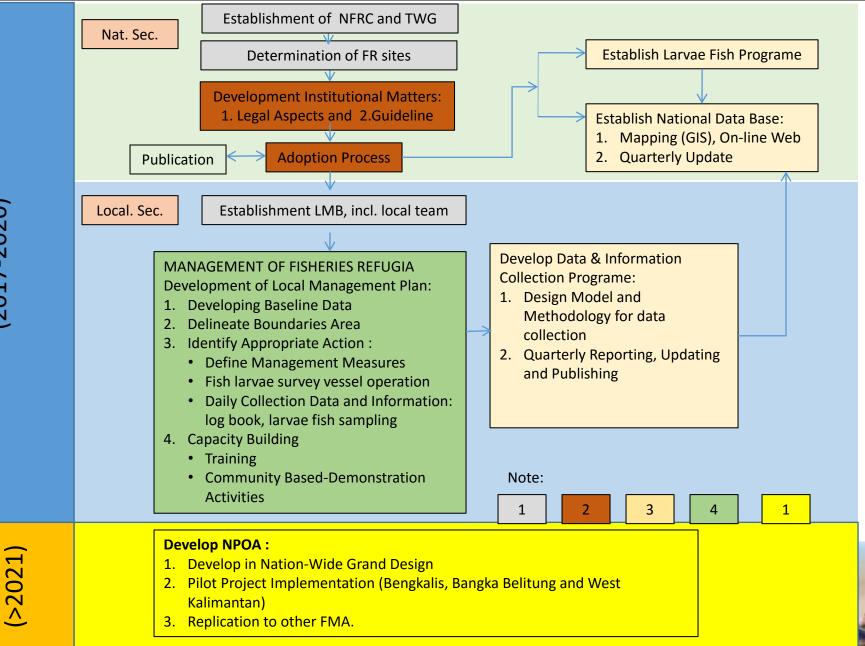
LMB will catalyze community-led planning of fisheries refugia management at priority sites

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



FRM AREA

SCS

FOR

PILOTING STAGE

DEVELOPMENT

STAGE

-2020)

(2017)



MEMBERSHIP OF NFRC

NO.	ORGANISATION	POSITION
1.	Directorate of Fisheries Resource Management, DG of Capture Fisheries	Director (Chairman of NFRC)
	(DGCF)-Ministry of Marine Affairs and Fisheries (MMAF)	
2.	Directorate of Fishing Vessel and Gear, DGCF-MMAF	Director
3.	Directorate of Conservation and Marine Biodiversity, DG of Marine Spatial	Director
	Management – MMAF	
4.	Directorate of Fisheries Resource Surveillance, DG of Marine And Fisheries	Director
	Resources Surveillance-MMAF	
5.	Fisheries Research and Development Center, Research and Development	Director
	Agency-MMAF	
6.	Marine and Coastal Resources Research and Development Center, Research	Director
	and Development Agency-MMAF	
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

VIII TAT

MEMBERSHIP OF TWG

No.	Organisation	Position
1.	Directorate of Fisheries Resource, Directorate General of Capture	Deputy Director (Chairman of TWG)
	Fisheries (DGCF)-Ministry of Marine Affairs and Fisheries (MMAF)	
2.	Directorate of Fishing Vessel and Gear, DGCF-MMAF	Deputy Director
3.	Directorate of Conservation and Marine Biodiversity, DG of Marine	Deputy Director
	Spatial Management – MMAF	
4.	Directorate of Fisheries Resource Surveillance, DG of Marine And	Deputy Director
	Fisheries Resources Surveillance-MMAF	
5.	Fisheries Research and Development Center, Research and	Head of Division and Senior Researcher
	Development Agency-MMAF	
6.	Center of Marine and Coastal Resources Research and	Head of Division and Senior Researcher
	Development, Research and Development Agency-MMAF	
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

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

				ar 1			Yea	ar 2			Ye	ar 3					
	Activity Description	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	COMPONENT 1: Identification and manageme	ent of f	isherie	s and	critical	habita	at linka	iges a	3 pric	ority fis	heries	refug	<i>ia</i> in In	donesi	a		
1.1	Developing fisheries and coastal habitat informat	ion and	d data	collect	tion pro	ogram	mes fo	r Bang	gka Be	litung,	Kalim	antan	Barat),	and K	ep. Ria	u sites	;
1.1.1.	Review existing information and data on fisheries and																
	coastal habitats at sites, including needs																
1.1.2	Consultation workshops to secure community and																
	fisherfolk support in information and data collection																
1.1.3	Design and conduct site-based survey to produce																
	fisheries and habitat profile report for 3 sites																L
1.1.4	Design and conduct monthly fisheries surveys at the 3	Des	sign Ph														
	sites and submit data to a national online database																
1.2	Facilitating agreement among stakeholders on the	e boun	daries	of fish	neries r	efugia	at the	Bang	ka Beli	itung, l	Kalima	ntan E	Barat, a	nd Kep	p. Riau	sites	·
1.2.1	Conduct consultations (including at-sea) to draft maps																
	of fisheries refugia for priority species																ļ
1.2.2	Prepare maps for 3 refugia and elicit fisherfolk input to																1
	boundary delineation through consultation																<u> </u>
1.2.3	Conduct assessment of environmental and social																
101	impacts of designation of sites as refugia																<u> </u>
1.2.4	Secure formal municipal/local government designation																
1.3	of site as fisheries refugia	- for th	- Ban	ako Be	liture	Kalim	oton P			. Diau							L
1.3.1	Developing Community-Based Management Plans	s for th	e ban	дка Бе	intung,	Kalim		arat, a	na re	p.Riau	sites						
1.3.1	Consultations to identify key threats to fisheries <i>refugia</i> sites and identify management measures																
1.3.2	Management plans for 3 sites developed through																<u> </u>
1.3.2	community-based consultations																1
1.3.3	Regulations/rules required for <i>refugia</i> management																<u> </u>
1.5.5	drafted with fisherfolk and local authorities																
1.3.4	Management plans adopted by local authorities and																<u> </u>
1.0.4	regulatory reforms enacted																
1.4	Establishing operational management for the Ban	dka B	elitung	Kalin	antan	Barat)	and	(en R	iau site	es refu	aia site	es					
1.4.1	Establish management teams and a site-based					Darac					gia sia						
	volunteer network at 3 sites																
1.4.2	Conduct practical capacity building programme for																
	management volunteers at 3 sites																
1.4.3	Coordinate monthly training and awareness activities																
	at 3 sites, including pilot mgmt activities																
1.4.4	Develop and implement collaborative observer and																
	enforcement programme for management plan				<u> </u>				<u> </u>								
1.5	Strengthening civil society and community organi	zation	partic	ipation	in the	mana	gemen	t of fis	heries	refug	<i>ia</i> sites	;					
1.5.1	Support local GEF Small Grant Programme																
	proponents in design and execution of projects																
1.5.2	Document and share examples of best practice																

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

			Yea	ar 1			Ye	ar 2			Yea	ar 3		Year 4				
	Activity Description	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
COM	IPONENT 2: Improving the management of critical hab											ctions	to stre	engthen	the e	enablir	ng	
	environment and kno									ndone	sia							
2.1	Enhancing policy guidance for improved manager	ment c	of the e	ffects	of fish	ing or	critica	l habit	ats									
2.1.1	Identify and document key threats from fishing and the																	
	environment to fish stock and critical habitat linkages																	
2.1.2	Formulate recommendations on policy and legal																	
	reforms to support promotion of responsible fishing																	
2.1.3	Facilitate consultations with fisheries industry and																	
	competent authorities on policy reforms																	
2.1.4	National policy reform to promote fisheries sector's																	
	sustainable use of fish habitats and biodiversity																	
2.2	Defining the policy and legal basis for formal desi	gnatio	n and	establi	shme	nt of fi	sheries	s refug	<i>ia</i> in Ir	dones	ia							
2.2.1	Review of policy and legal aspects on refugia																	
	(terminology, procedures, recommended reforms)																	
2.2.2	National expert consultation to formulate agreed																	
	recommendations for policy and legal reforms																	
2.3	Development of national guidelines on the establi	shmer	nt and o	operati	on of	fisheri	ies refu	igia										
2.3.1	Draft national guidelines (based 2.1.2) on procedures																	
	for formal designation and mgmt of fisheries refugia																	
2.3.2	National and local consultative process to elicit																	
	stakeholder input to the draft guidelines																	
2.3.3	Amend and finalise the guidelines for approval by																	
	National Fisheries Refugia Committee and Secretary																	
2.4	Reforming national policy, legal and planning fram	newor	ks for a	demarc	cating	bound	laries a	and ma	inaging	g refug	jia							
2.4.1	Based on 2.1.2 & 2.1.3, draft required policy and legal																	
	reforms to support refugia establishment and mgmt																	
2.4.2	Convene national and local stakeholder consultations																	
	to review and provisional text for adoption																	
2.4.3	Facilitate approval and formal adoption of reforms by																	
	the authorities at national and provincial levels																	
2.4.4	Develop National Action Plan for the management of																	
	refugia on the SCS coast of Indonesia																	
2.5	Enhancing access to information relating to statu	s and	trends	in fish	stock	s and	their h	abitats	in Ind	onesia	n wate	ers of t	he SCS	S				

THE MENT

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															
2.6	Improving national-level management and sharing of in	nformat	tion and	d data	on fish	early	life his	story in	Indon	iesian	waters	s of the	SCS			
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															
2.7	Enhancing access to information relating to the location	ons and	status	of coa	astal ha	abitats	and m	anage	ment a	ireas ir	n Indo	nesian	waters	s of the	SCS	
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)															
2.8	Strengthening the information base for the planning, n	nonitori	ng and	evalua	ation o	f mana	igemei	nt at pr	iority f	isheri	es r <i>efu</i>	<i>igia</i> sit	es			
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															



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

			Yea	ar 1			Ye	ar 2			Ye	ar 3		Year 4					
	Activity Description	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
CC	DMPONENT 3: Information Management and Dissemin	nation	in sup	port of	natior	nal-lev	el imp	lement	ation o	of the f	isherie	s refu	g <i>ia</i> cor	icept in	n Indoi	nesia			
3.1	Enhancing national uptake of best practices in int	egratii	ng fish	eries n	nanag	ement	and b	iodiver	sity co	nserv	ation		_						
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																		
3.2	Improving community acceptance of area based a	pproa	ches t	o marii	ne mar	nagem	ent												
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 refugia approach as a marine spatial planning tool																		
3.3	Knowledge generated and experiences from estal	plishin	g and	operat	ing fis	heries	refugi	ia capt	ured a	nd sha	red na	tionall	y, regio	nally,	and gl	obally			
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																		



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

			Ye	ar 1			Yea	ar 2			Ye	ar 3			1		
	Activity Description	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	COMPONENT 4: National coordinat	tion fo	r integ	rated fi	ish sto	ck and	critic	al habi	itat ma	nagen	ient in	Indon	esia				
4.1	Strengthened cross-sectoral coordination in the e	stablis	shmen	t and o	perati	on of f	isherie	es refu	gia in l	ndone	sia]
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																
4.2	Harnessing national scientific and technical expe	rtise a	nd kno	wledge	e to inf	orm p	olicy, l	egal a	nd inst	itutior	al refo	rms fo	r fishe	ries <i>r</i> e	fugia		
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																
4.3	Catalyzing local community action via establishm	ent an	d oper	ation o	of site-	based	manag	jemen	t board	ls at 3	priorit	y refug	<i>jia</i> site	S		•	-
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																



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

kank you

JI. Medan Merdeka Timur No. 16, Jakarta 10100 Gedung Mina Bahari II Lt. 10 Website SDI : www.sdikkp.go.id Email: sdidjpt@gmail.com Telp. (021) 351 9070 (hunting) Pst. 1223, Fax. (021) 3453008 www.dkp.go.id



KEY THREATS FOR FISHEREIS REFUGIA

- The twin problems of over-capacity and overexploitation;
- 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



