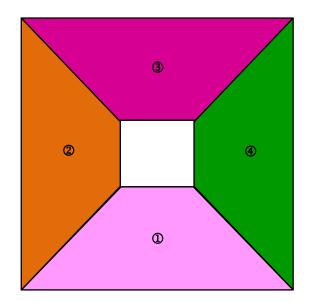
YONMENKAIGI SYSTEM METHOD (YSM) RESULTS Bengkulu City

EARTHQUAKE DISASTER RISK REDUCTION BY EARTHQUAKE-RESISTANT BUILDINGS



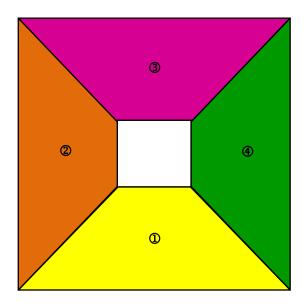
① HUMAN RESOURCES		
Short Term (1 Year)	Mid Term (2 Years)	Long Term (5 Years)
Community understands earthquake	Community understands	Ability to construct earthquake-
	earthquake-resistant houses	resistant houses
Community campus		
	Construction labor trained for	Ability to identify earthquake-
School Community	building earthquake-resistant houses	resistant houses
Disaster social community	Local government with knowledge of	Certified consultant for earthquake-
organization	earthquake disaster risks	resistant buildings
		Central government with knowledge
		regarding earthquake disaster risks

② INFORMATION & DATA AND FINANCIAL		
Short Term (1 Year)	Mid Term (2 Years)	Long Term (5 Years)
Financial:	Financial:	Financial:
Community support	Regional budget	National budget
CSR budget	Fund relief from private sector	Fund relief from foreign sector (ADB, World Bank)
Information and data:	Information and data:	
Documentation regarding previous	Existing building data	Information and data:
disaster occurrences		Earthquake hazard map
Total population		
Potential earthquake hazard map		

③ PROGRAMS		
Short Term (1 Year)	Mid Term (2 Years)	Long Term (5 Years)
Software:	Software:	Software:
Data collection (community,	Earthquake DRR and earthquake-	Establishment of earthquake disaster
location)	resistant building trainings	mitigation curriculum in educational
		institution (toddler, elementary
Analysis on earthquake hazard	Earthquake DRR training	school, middle school, high school,
(probability/risk)		university).
	Dissemination on earthquake DRR	
Study on earthquake-resistant		Establishment of earthquake-
buildings	Hardware:	resistant building regulation
	Building retrofitting	
Hardware:		Creating building permit (conforming
Identification on traditional houses	Earthquake-resistant normal public	with earthquake-resistant building
(traditional structural system)	facility (school, mosque, etc)	standard)
Charles and the set of	For the second state of the second	Insert DBB knowledge on university's
Simple earthquake-resistant houses	Earthquake-resistant houses	Insert DRR knowledge on university's community service program
	traditional technology	community service program
		Contingency plan
		Monitoring and evaluation
		Hardware:
		Earthquake-resistant shelter
		Earthquake-resistant important
		public facility

MANAGEMENT DAN INSTITUTIONAL		
Short Term (1 Year)	Mid Term (2 Years)	Long Term (5 Years)
Institutional:	Institutional:	Institutional:
Establishment of earthquake disaster	Local parliament – local regulation	Central parliament – laws and
forum in neighborhood associations		standardization
and hamlets	Regional planning agency – city	
	planning	Central public works agency
School/university		
	Public works agency – physical	National planning agency
Meteorology, climatological, and	development	
geophysics agency		BNPB
	BPBD	Management:
NGO	Management:	Coordination with executive and
	Inter agencies coordination meeting	legislative
Village social activities		
group/Community empowerment in	Budget committee meeting	
rural areas/Village executive board		
Management:		
Meetings		

TSUNAMI DISASTER RISK REDUCTION



① HUMAN RESOURCE		
Short Term (6 Months)	Mid Term (1 Year)	Long Term (2 Years)
Disaster prepared community recruitment	Invite foreign/outside the district speakers as lesson learned of DRR	Resilient subdistrict revitalization
Volunteer recruitment	Inclusion of disaster mitigation education in the curriculum	
Data collection of tsunami-related knowledge local wisdom	Training program for policy makers	
Evacuation drill training	Emergency response drill	
Tsunami emergency response training for community	Disaster prepared community training	
Dissemination of tsunami to community seminar		

② INSTITUTIONAL		
Short Term (6 Months)	Mid Term (1 Year)	Long Term (2 Years)
Create early warning instrument	Monitoring and evaluation	Local regulation on tsunami DRR
Purchase of tools and utilities in	Operational control center of	Local technical managing unit for
tsunami emergency response	disaster mitigation optimization	operational control center of disaster mitigation
Coordination with related agency	Composing detail spatial plan and	
	detail disaster mitigation plan	Technical evaluation
License for institutional resources		
	BPBD and local parliament	BNPB and central parliament
Strengthening regional discussion		
forum as institution for tsunami		
countermeasures		
Community necessity evaluation		
School institution		

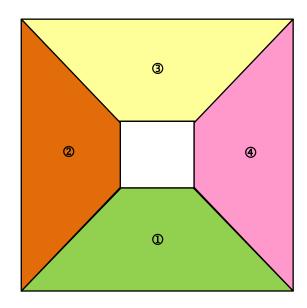
Disaster prepared community recruitment	
Volunteer recruitment	

③ LOGISTIC & HARDWARE AND PROGRAM		
Short Term (6 Months)	Mid Term (1 Year)	Long Term (2 Years)
Logistic and hardware:	Logistic and hardware:	Logistic and hardware:
Create evacuation signs	Supply of buffer stock	Shelter construction
		Program:
Create route, route map, and evacuations signpost	Logistic warehouse	Early warning siren
	Subdistrict logistic warehouse	Increase for early warning siren
Evacuation route construction	construction	,
	Program:	Inclusion of local content related to
Communication instrument such as	Monitoring and evaluation	disaster mitigation to school
HT, etc		_
Program:	Regional action plan	
Contingency plan		
	Establishment and activation of	
Operational vehicle procurement for relief distribution	disaster prepared subdistrict	
	Shelter construction	
Increasing tsunami evacuation route		
sign	Establishment of local	
	regulation to arrange	
Planting mangrove and pine for coast	companies to allocate its	
preservation	profit for DRR	
Create early warning instrument	Independent fund from community	
	as its involvement in DRR	
Purchase of tools and utilities in		
tsunami emergency response		

④ FINANCIAL AND INFORMATION & DATA		
Short Term (6 Months)	Mid Term (1 Year)	Long Term (2 Years)
Financial:	Financial:	Financial:
Independent fund from	City budget and province budget	National budget
community		
	Establishment of MoU with private sector	Allocated fund always included in
Cooperation with CSR from	(telecommunication, banking, industry,	national budget
private and national companies	etc)	Information and data:
		Education of DRR to community
Cooperation with university for	MoU for cooperation	
research and community service		Collected and completed data
	Establishment of local regulation to	accessible for public
Budget planning inclusion in	arrange companies to allocate its profit for	
regional budget	DRR	Community able to receive clear
Information and data:		info regarding hazard map and
Social survey through assessment	Independent fund from community as its	evacuation route
	involvement in DRR	
Create banner, poster, and		
infomercial for tsunami alertness	Information and data:	
in mass media	Hazard map and evacuation route	
	distribution	
Database collection for facility		

and infrastructure	Cooperation from university's community service for evacuation	
Cooperation with mass media for information dissemination	map and hazard map	
Data acceptance from meteorology, climatology, and geophysics agency		
Update existing information		
Create banner and brochures for tsunami-related dissemination		
Establishment of hazard map and evacuation route		
Disaster hazard mapping		

RESILIENT COMMUNITY: FLOOD AND LANDSLIDE



① PROGRAM			
Short Term (April-October 2015)	Mid Term (November 2015- November 2016)	Long Term (November 2016- November 2018)	
DRR volunteer recruitment	DRR volunteer training	DRR evaluation	
Establishment of DRR forum in city/village level	Sharing with local parliament regarding DRR	Regional action plan for flood and landslide	
Dissemination of DRR to community	Local content implementation in school	Shade trees planting	
Coordination with university for establishment community service program	Establishment of flood and landslide masterplan		
DRR for local content in school	Reparation/construction of drainage and cliff protection		
Identification of environmental and housing vulnerability	Dredging shallow base of the river		
Paradigm change of flood	Early warning system installation		
Identification of vulnerable group	Establishment of local regulation for disaster mitigation		
Coordination with related agency	DRR simulation		
Planning comparative study to area with similar social/physical	Establishment of disaster mitigation		
with similar social/physical characteristics	Establishment of disaster mitigation task force from various stakeholders		

② HUMAN RESOURCE		
Short Term (April-October 2015)	Mid Term (November 2015- November 2016)	Long Term (November 2016- November 2018)
Composing budget plan	Establishment structural organization for disaster	Establishment of disaster mitigation task force personnel
Human resource planning evaluation for once every six month	management volunteer	Reference for disaster area and its
	Budget properly distributed as	countermeasure is available

Planning for detail and sustainable	needed	
training		Human resource evaluation and
	Identification of public figure and	analysis
Establishment of vision and mission	their impact on local wisdom	
related with flood and landslide		Increase of volunteer capacity for
disaster prepared community	Training for task force	vulnerable group treatment
	First year evaluation	
	Comparative study to appointed	
	areas	
	Professional treatment of vulnerable	
	victim	

③ FINANCIAL				
Short Term (April-October 2015)	Mid Term (November 2015- November 2016)	Long Term (November 2016- November 2018)		
Short Term (April-October 2015)Involvement of university student through disaster-related community service program (budget subsidy for community service)Implementation of budget plans into action in 2015Identification of financial source from education institution, university for DRR purposeIdentification of foreign financial 	Mid Term (November 2015- November 2016) Gather related stakeholder to compile budget meeting for DRR Establishment of local regulation to arrange companies to allocate its profit for DRR Disaster management budget planning for 2016 Community coaching to increase participation of disaster mitigation by independent funding Information and data: Coordination with all stakeholders related to research and community service data Unification of flood and landslide maps existed from stakeholders Create flood and landslide disaster probability map in Bengkulu Flood and landslide hazard area			
Information and data: Identification of area with flood and landslide hazard	Flood and landslide hazard area mapping			
Supply all data and information if needed for research Identification of maps owned by				
stakeholder for disaster mitigation purpose				

Identification of unavailable data for DRR planning	
BPBD operational control center of disaster mitigation optimization	
Identification of disaster-related related local wisdom	

④ INSTITUTIONAL				
Short Term (April-October 2015)	Mid Term (November 2015-	Long Term (November 2016-		
	November 2016)	November 2018)		
Establishment of disaster response	Establishment of mayor regulation	Establishment of regulation		
forum	related to DRR	regarding disaster relief fund		
		distribution		
Establishment of DRR working group	Composing DRR action together with			
(Rapid response team)	local parliament	Institutional strengthening		
Establishment of decree for DRR	Composing SOP for flood and	Composing contingency plan		
team (working group)	landslide DRR			
Establishment of DDD odministrative		Spatial and urban planning		
Establishment of DRR administrative unit		Disaster relief monitoring		
		Disaster relier monitoring		
Propose mayor regulation for DRR				
team position will not be shuffled in				
\leq 3 years				
Introduce area and evacuation route				
Maintaining relationship with local				
parliament				
Communicate disaster status to				
central government				
Strengthening coordination between				
agencies related with DRR				
Establishment of disaster mitigation				
task force (structural, duties and				
function)				