

COORDINATING MINISTRY OF MARITIME AFFAIRS

Role of Coordinating Ministry of Maritime Affairs in Sustainable Management of Indonesian Mangrove and Its Ecosystem

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INTERNATIONAL CONFERENCE ON MANGROVE ECOSYSTEMS, BALI, 18 APRIL 2017

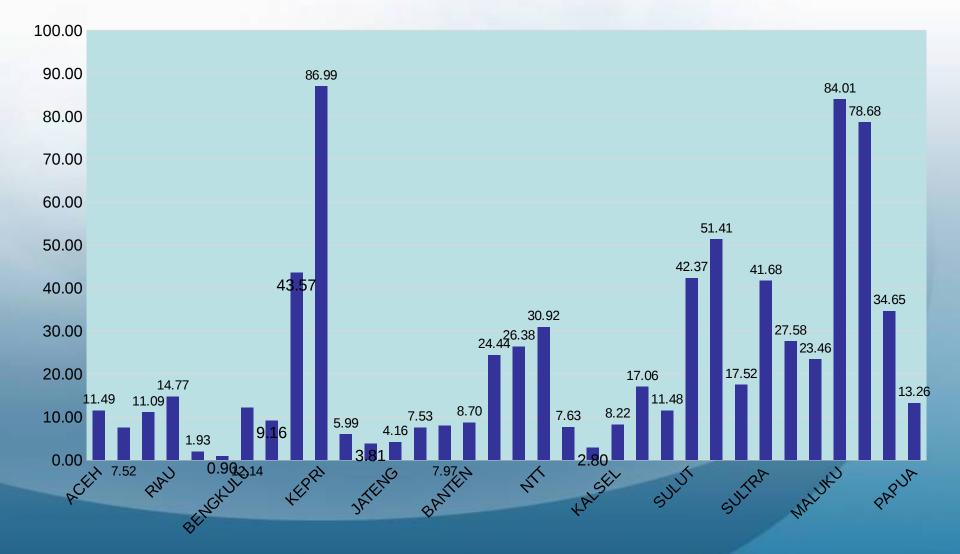


INDONESIA AS AN ARCHIPELAGIC STATE



Indonesia as an archipelagic country having 17.504 islands (including 10.000 small islands) with 99.093 km coastline and coastal inhabitants of more than 140 millions people (out of 250 millions population), in 297 districts/cities (out of 440 Indonesian districts/cities) the Indonesian economy relies on our marine resources and coastal activities.

Percentage of Coastal Villages (Provinces)

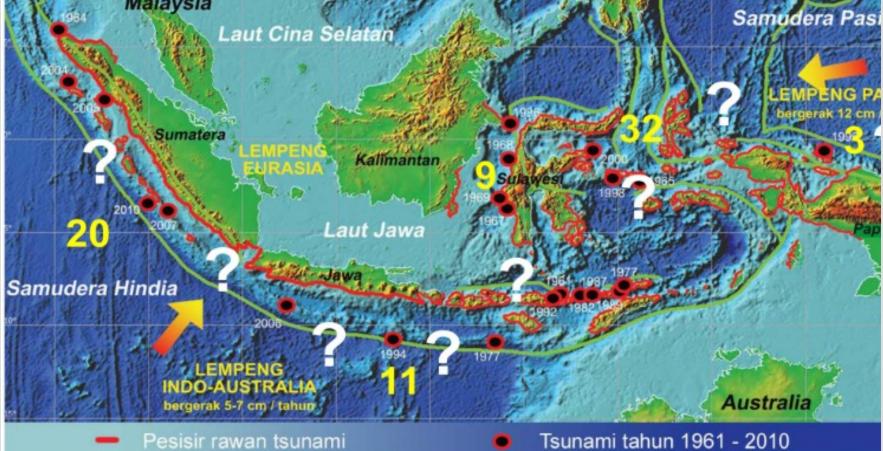


Vulnerable to marine disaster: tsunami, climate change impact (sea level rise)

Source: BPS, 2014



TSUNAMI THREATS THE COASTAL AREAS



A. Since year 1600 - now: more than 110 tsunami in Indonesia

B.More than 7,800 villages are vulnerable from



IMPACT ON SEA LEVEL RISE IN THE COASTAL AREAS OF INDONESIA Bibbat pemanasan global



About 2,266 villages facing and severe from climate change impact (sea level rise). More than 9 million people live there.



BARRIER



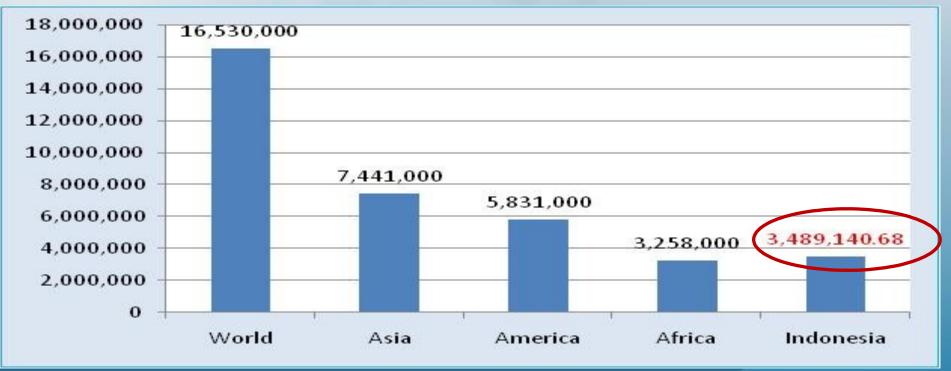
MANGROVES PROVIDE:

- A. Climate change adaptation and mitigation for national and global strategy;
- B. Coastal barrier in severe storms, tsunami disaster, waste and pollutant recycling;
- C. A wide range of ecosystem services (nutrient cycling, soil formation, wood production, fish spawning grounds, ecotourism, and carbon storage).



INDONESIAN MANGROVE

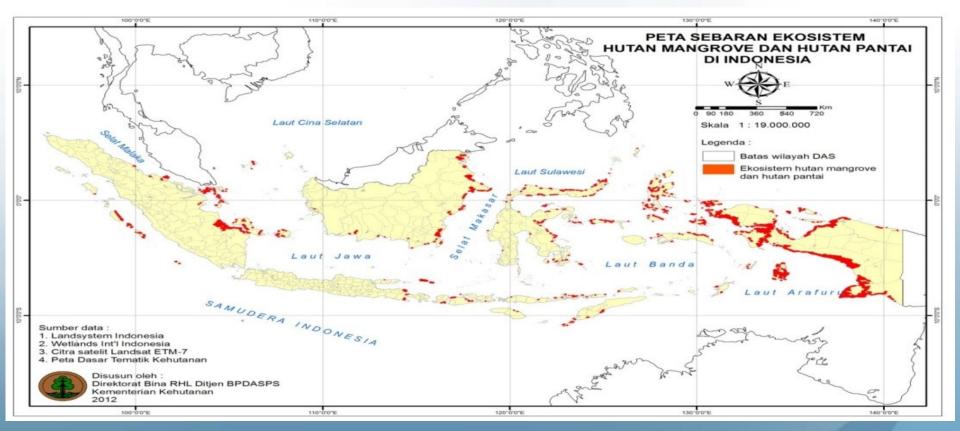
- The largest mangrove ecosystem in the world (MoEF, 2017). <u>It represents 23% of the total mangrove in the world</u> (CIFOR, 2017).
- Facing many problems : changes in land use, low level of society knowledge on the importance of mangrove, pollution (plastic waste, household waste, oil spill, etc.), illegal logging, natural disaster.
- Sustainable management of Indonesian mangrove ecosystems : (1) sustainable utilization, (2) conservation, (3) rehabilitation.



World Mangrove (ha)



MAP AND STATUS OF INDONESIAN MANGROVE

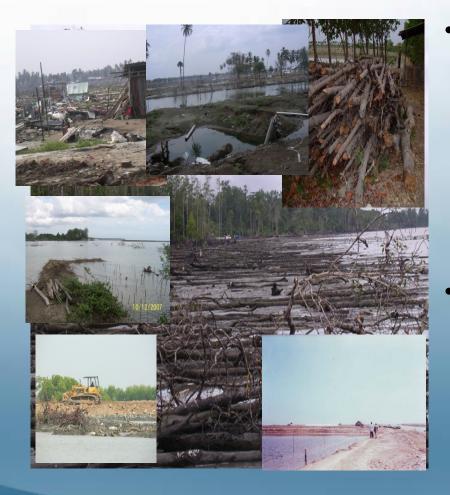


Indonesian Mangrove of 3.489.140,68 ha (Year 2015)

National Status:	Java North Beach (Pantura)		
Good condition: 1,671,140.75	Status:		
ha.	Good condition: 15%.		
Damaged (52%) : 1,817,999,93 Rate of destruction: $\pm 52,000$ ha 2015)	Damaged : 85% YF (Cifor Source : MoEF, 2017		



GOVERNMENT PROGRAM: REHABILITATION OF MANGROVE



- Part of Priority Program (Level 1)
 at the Indonesian Coordinating
 Ministry of Maritime Affairs
 named Rehabilitation of the
 Damage on Coastal and Sea,
 which is also monitored by the
 Indonesian Presidential Staff
 Office.
- Other activities under the Rehabilitation of the Damage on Coastal and Sea Program :
 - (1) Structure Hybrid Engineering (or, Sediment Trap) and
 - (2) Geo-textile.



REHABILITATION OF THE DAMAGE ON COASTAL AND SEA IN THE INDONESIAN GOVERNMENT WORK PLAN 2017



- 2) Min.of Ocean and Fisheries;
- 3) Min.of Env.and Forestry;
- 4) Nat.Outer Space and Flight Insitution;
- 5) Nat.Disaster Manag.Body;
- 6) Min.of Home Affairs;
- 7) Local Government;
- 8) Indonesia Institute of Science;
- 9) Min.of Comm.Housing and Public Work;
- 10) Agency for the Assessment and Application of Technology;
- 11) Etc.

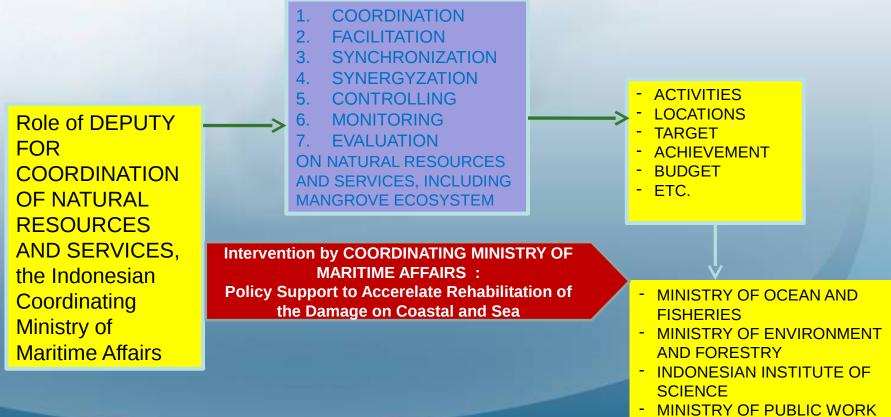


PRIORITY ACTIVITIES (LEVEL 2) RELATES TO MANGROVE IN 2017





REHABILITATION OF THE DAMAGE ON COASTAL AND SEA



- AND COMMUNITY HOUSING
- LOCAL GOVERNMENTS
- PRIVATE SECTORS
- NGOs



ACHIEVEMENT OF REHABILITATION PROGRAM ON COASTAL AREA

1. COORDINATING MINISTRY OF MARITIME AFFAIRS

- Coordination and sinergyzing meetings :
 - To map activities done by related stakeholders deals with rehabilitation of mangrove from national government institutions, non government institutions, and private sectors, such as :
 - (1) Ministry of Ocean and Fisheries,
 - (2) Ministry of Environment and Forestry,
 - (3) PT. Toyota Motor Manufacturing Indonesia,
 - (4) Wetland Int'l. Indonesia,
 - (5) PT. Candelia Alam (West Kalimantan Province)
 - (6) Coordinating Ministry Of Economic Affairs
 - To link its activities to management of maritime disaster.



2. MINISTRY OF OCEAN AND FISHERY

TARGET

3 million mangrove In Java North Beach (quick wins)

1 million mangrove Outside of Java

500 million vegetation



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ACHIEVEMENT 2015

- 4,2 million mangrove in Java North Beach
- 1,7 million mangrove outside of Java
- 48 thousand vegetation

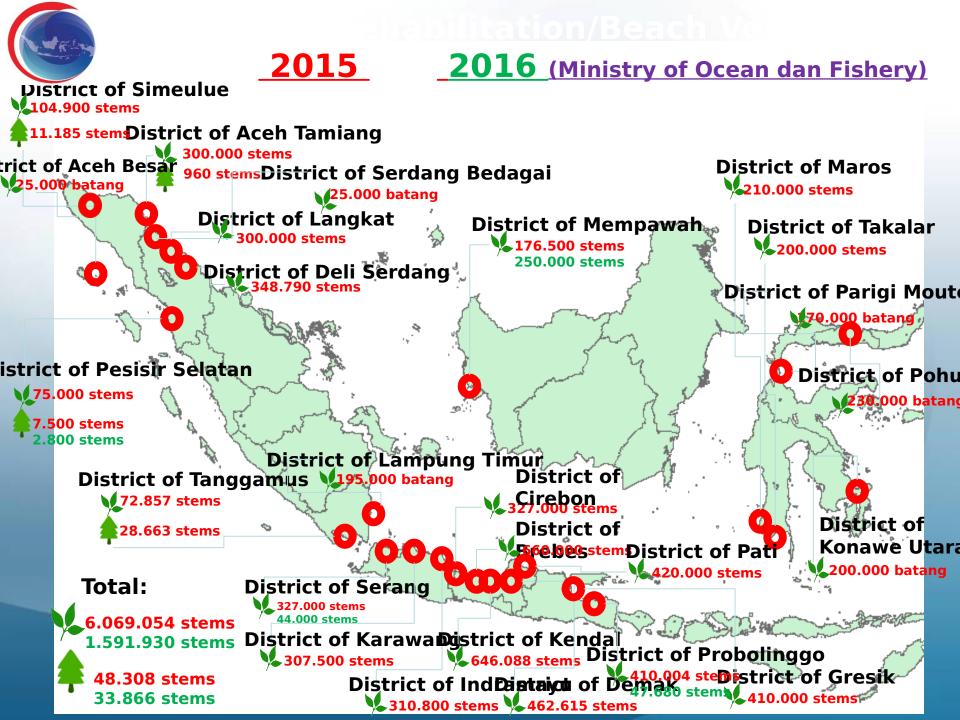
ACHIEVEMENT 2016

- 496 thousand mangrove in Java North Beach
- 1,1 million mangrove outside of Java33,8 thousand vegetation

2002 - 2016

Mangrove 14.890.252 stems

Beach Vegetation 398.892 stems





3. MINISTRY OF ENVIRONMENT AND FORESTRY

2015	MANAGEMENT UNIT WATERSHEDS IN 14 PROVINCES OF : - Lampung, - West Java, - Central Java, - East Kalimantan, - North Sulawesi, - Bangka Belitung Island, Central - Sulawesi, Mollucas,	PLAN (ha)	REALIZATION (ha)
	- Papua, - Southeast Sulawesi TOTAL MANAGEMENT UNIT OF WATERSHEDS	400	481
2016	IN 8 PROVINCES OF : - Sumatra Utara, - Bangka Belitung Island, - Banten, - Sulawesi Selatan, - Sulawesi Barat, - Maluku Utara, - Lampung and - Sulawesi Tenggara		PLAN (ha)
	Total		497,47

SOME REHABILITATION TECHNIQUES BASED ON COASTAL AND LAND CONDITION



Sediment trap, Serang-Banten

Bronjong Method, Pekalongan - Jawa Tengah



Silvofishery



Crab Aquaculture Pemalang, Jateng

Silvofishery Delta Mahakam, Kaltim



R EHABILITATION MANGROVE

Indramayu



Bekasi



±8 months

DIREKTORAT PENDAYAGUNAAN PESISIR DIREKTORAT JENDERAL PENGELOLAAN RUANG LAUT KEMENTERIAN KELAUTAN DAN PERIKANAN

PRPM Pangandaran (Mangrove tourism)

Tracking

Daily income: • Visitor : Rp. 1.000.000 • parking : Rp. 300.000 • toilet : Rp. 60.000



4. PT. TOYOTA MOTOR MANUFACTURING INDONESIA

- Mangrove Planting on March 1, 2017, in Pusakajaya Village, District of Karawang.
- Institutions involved : Coordinating Ministry of Maritime Affairs, Ministry of Environment and Forestry, Vice Governor of West Java Province, Regent of Karawang, and Environmental Impact Agency of West Java Province.





5. WETLANDS INTERNATIONAL INDONESIA PROGRAMME

- Celebrating World Wetlands Day, on February 16, 2017, in Sawah Luhur Village, City of Serang, Province of Banten.
- Institutions involved : Coordinating Ministry of Maritime Affairs, Ministry of Environment and Forestry, Local Governments of Serang City, NGOs, University.





6. PT. KANDELIA ALAM

- Field Trips to Kubu Village, Village, District of Kubu Raya, West Kalimantan Province, on March 23, 2017.
- To map activities done by PT. Kandelia Alam relates to sustainable utilization, rehabilitation and conservation of mangrove.





7. COORDINATING MINISTRY OF ECONOMIC AFFAIRS

- Finalization of NATIONAL STRATEGY ON MANGROVE ECOSYSTEM MANAGEMENT (Presidential Decree No. 73 of 2012)
- Facilitated by Coordinating Ministry of Maritime Affairs in Serpong, Banten Province, 4 – 5 April 2017





- **1.** Rate of dectruction is faster than rate of rehabilitation.
- 2. Limited budget for implementation.
- 3. Need to have better management of mangrove ecosystems.
- 4. Need to strengthen regulations.
- 5. Need to have better link of cross sectors: in terms of coordination, facilitation, sinergyzation, syncronization, controlling, monitoring and evaluation.
- 6. Need to strengthen community participations.



INTERVENTION BY COORDINATING MINISTRY OF MARITIME AFFAIRS

POLICY SUPPORT ON ACCELERATING REHABILITATION OF THE DAMAGE ON COASTAL AND SEA

- **1.** Organizing a National Workshop on Rehabilitation of the Damage on Coastal and Sea, including Mangrove.
- 2. Coordinating and facilitating the finalization of the National Strategy on Mangrove Ecosystem Management.
- 3. Synchronyzing the locations of rehabilitation of the damage on coastal and sea including mangrove, among various stakeholders (government institutions, private sectors, NGOs).
- 4. Coordinating, Facilitating, Controlling, Monitoring, and Evaluating the implementation of rehabilitation of the damage on coastal and sea, including rehabilitation mangrove, among various stakeholders (government institutions, private sectors, NGOs).



PROPOSED PLAN OF ACTION IN 2017

- 1) Revised the Presidential Decree of National Mangrove Working Group (NMWG)(according to new government nomenclature)
- 2) Routine meeting of NMWG.
- 3) Facilitation of establishment of Province Mangrove Working Group (PMWG) East Kalimantan dan North Kalimantan.
- 4) Endorsing Development of Provincial Local Strategy/Action Plan.
- 5) One Map Mangrove Bali Nusa Tenggara.
- 6) Involvement of other Ministries/government institutions.
- 7) Involvement of private sector and NGOs.



Lastly, I would like to stress the importance of all institutional cooperation (national, international, NGOs, Private sectors) in overcoming of the damage of coastal area. We have developed a few techniques of mangrove rehabilitation and utilization. Now is the time for us to implement it massively for our environment, world, children, and future.

Thank You