



Plenary
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Priorities in Mangrove Rehabilitation Program in Indonesia

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Mangrove Ecosystem in Indonesia

Mangrove

3.36

**Million hectares
Mangrove Existing
in Indonesia**
(MOEF, 2021)

**±1,016 Ton
C/ha
carbon stored
in Indonesia's
Mangrove**

(Alongi et al., 2015
Murdiyarsa, et al. 2015)

Ecosystem services:

- Area for fish nursery
- Land protection from abrasion
- Carbon Storage
- Wildlife habitat
- Supply the raw material
- Cultural and educational services

Threats:

- Illegal logging
- Mangrove conversion mostly in non forest areas (e.g.: aquaculture, plantations, infrastructure)
- Coastal reclamation

Changes of Forest Cover on Mangrove

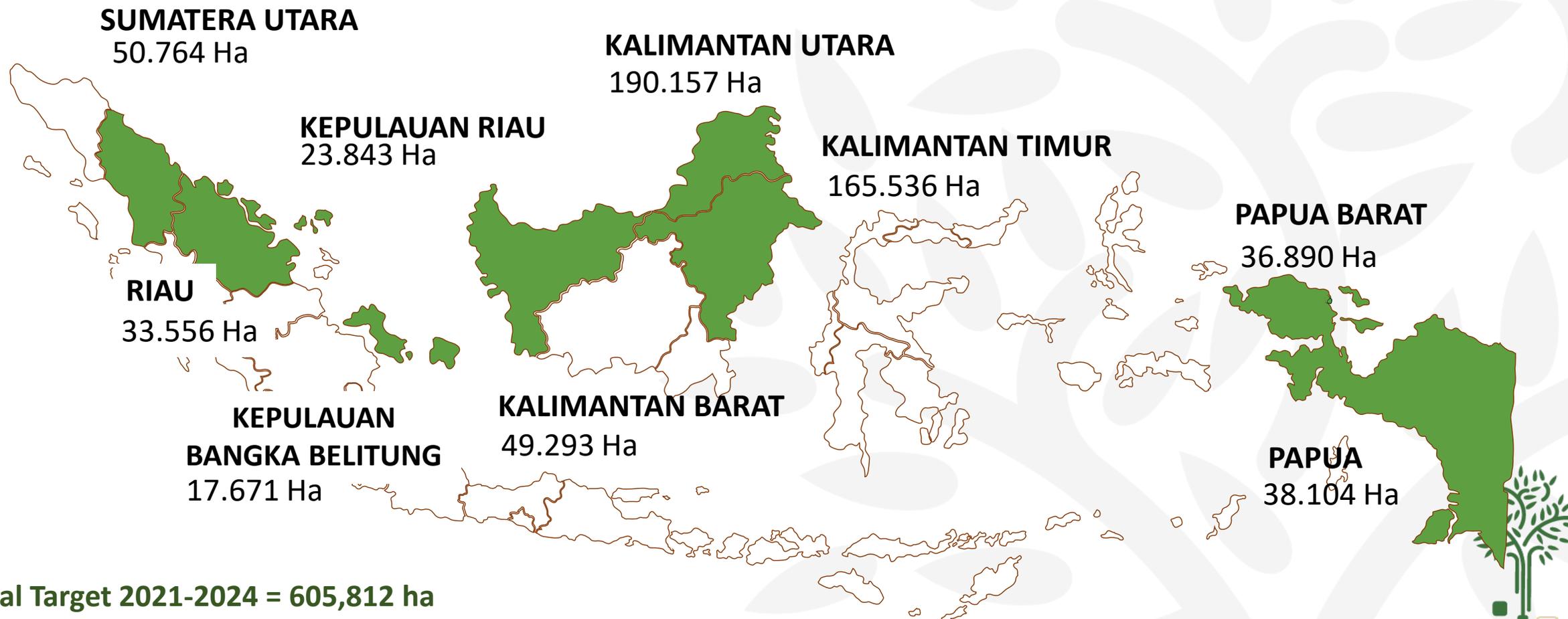
1. Past deforestation: until 1960 due to timber exploitation (in Sumatra and Java about 200,000 ha), the combination of timber and fishpond exploitation caused the loss of 800,000 ha of mangrove in 30 years since the 80's. (Ilman et al, 2016)
2. Projected deforestation in 2021-2030 covering an area of 299,258 ha.
3. The change from mangrove to non-mangrove is dominated by fish ponds covering an area of 631,802 ha (National Mangrove Map).
4. Deforestation into ponds mostly occurred in APL/non forest area (393,623 ha/62%), while in forest areas it was 238,179 ha (38%).
5. Low productivity in pond area has the potential to increase the mangrove deforestation area of 600,000 ha (Ilman et al, 2015)

Site Selection of Mangrove Rehabilitation

- Using mangrove-loss approach (Clarks Lab, Hansen, GLAD)
- Using the “Low Hanging Fruit” approach (avoiding the fringe area - facing the ocean (big wave))
- Exclude the rehabilitated area and concession (forest and palm oil)
- Detailed Engineering Design
- Free Prior and Informed Consent (FPIC)



Mangrove Rehabilitation Target 2021 - 2024 in 9 Provinces



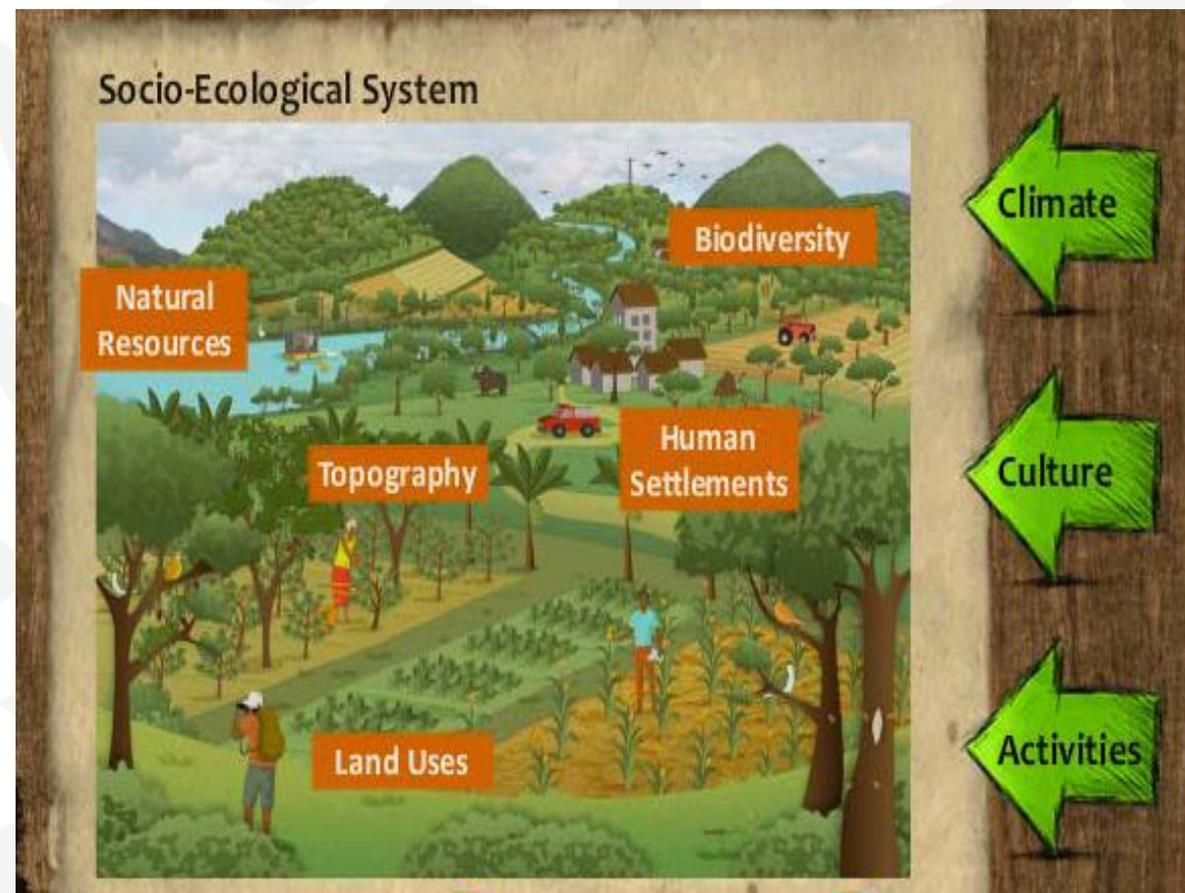
Total Target 2021-2024 = 605,812 ha

Mangrove rehabilitation will use the Mangrove Landscape-based Unit approach



Challenges: Mangrove Rehabilitation Partnership

- Technology in Mangrove Mapping
- Supporting on Mangrove Rehabilitation Funding
- Development on livelihood activities
- Technology on Monitoring and Evaluation (carbon)



Thank you.

