



The Case Study of Upcoming Energy Plantations in Indonesia

Forest Watch Indonesia

Teremiski, 2023



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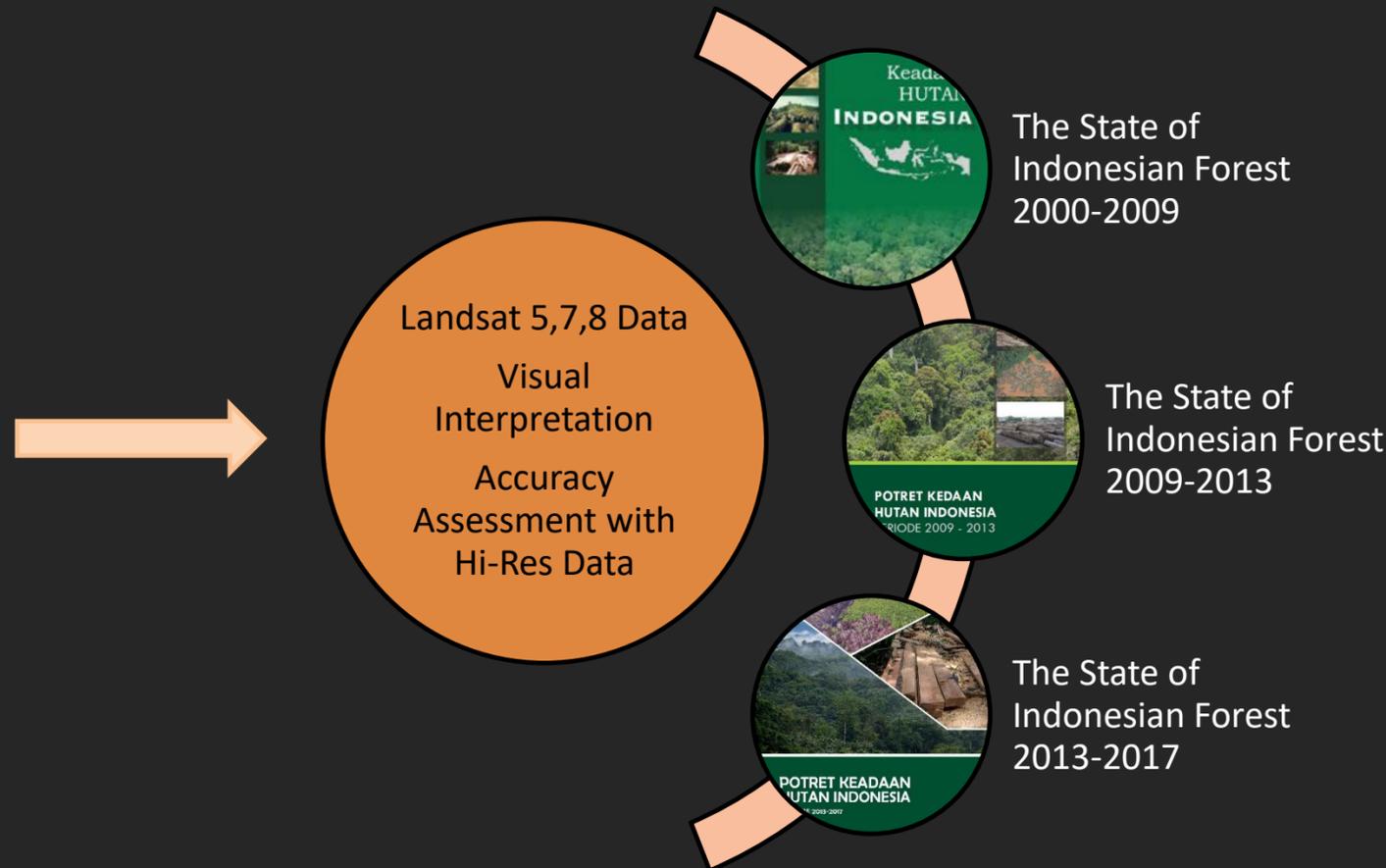
Current Condition

Portrait of HTE transformation in HTI permits (outside Java Island) & progress of HTE implementation in Perhutani areas (Java Island)

BACKGROUND

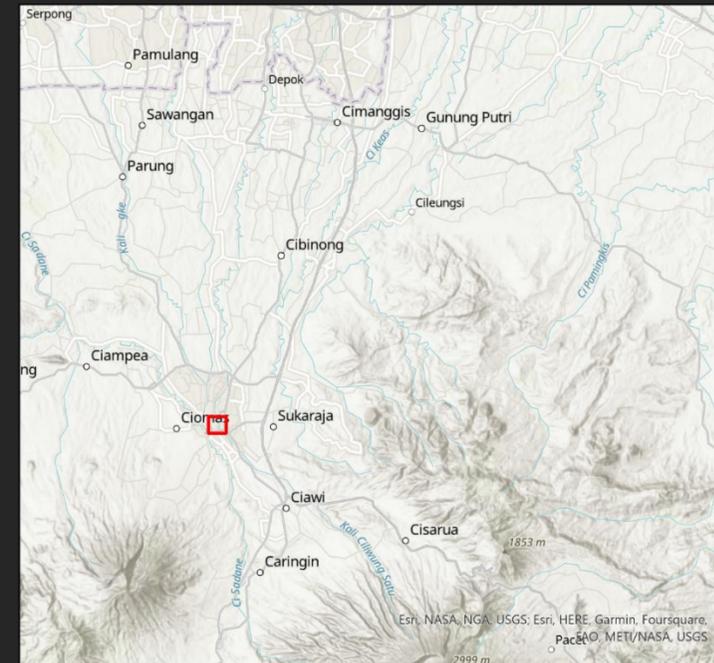
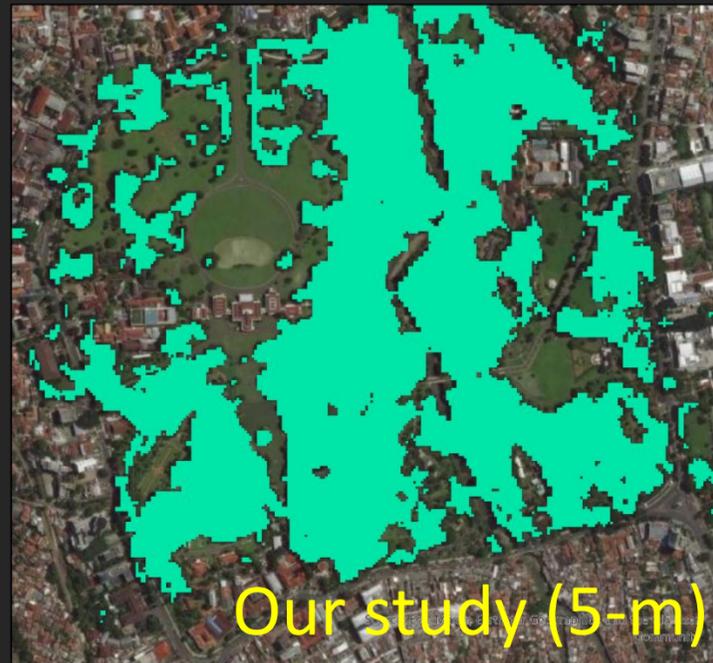
FWI has a strategic role to develop transparency in forestry information for the sake of democratization of forest resource allocation and management.

Previous Work
(National Level)



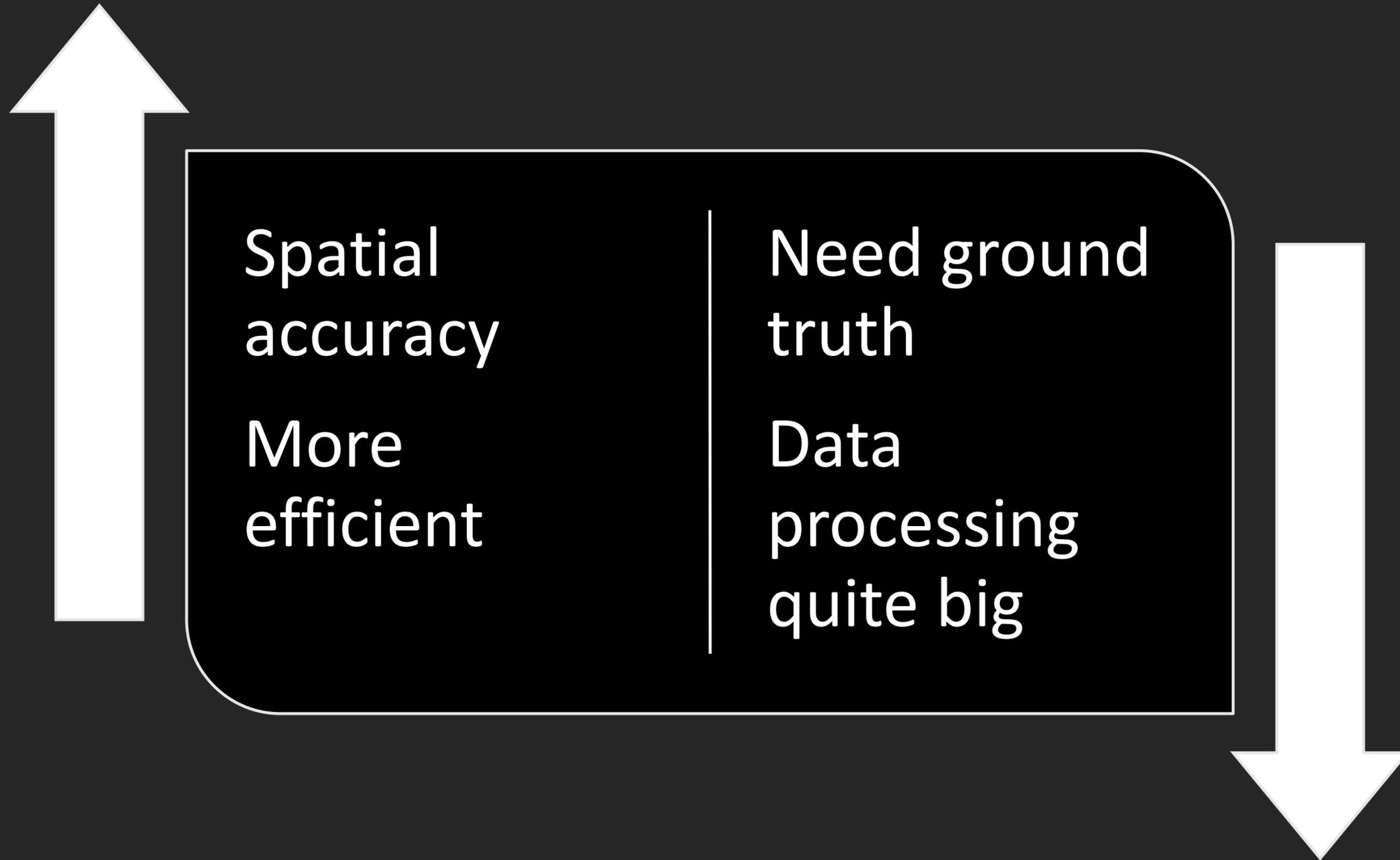
- Forest Conditions and Illegal Activities Monitoring
- Advocacy and campaigns promote better forest governance
- Community Participation in Monitoring Forests and Sustainable Forest Management
- Promoting Sustainable Forest Management

Forest extent



Spatial Comparison

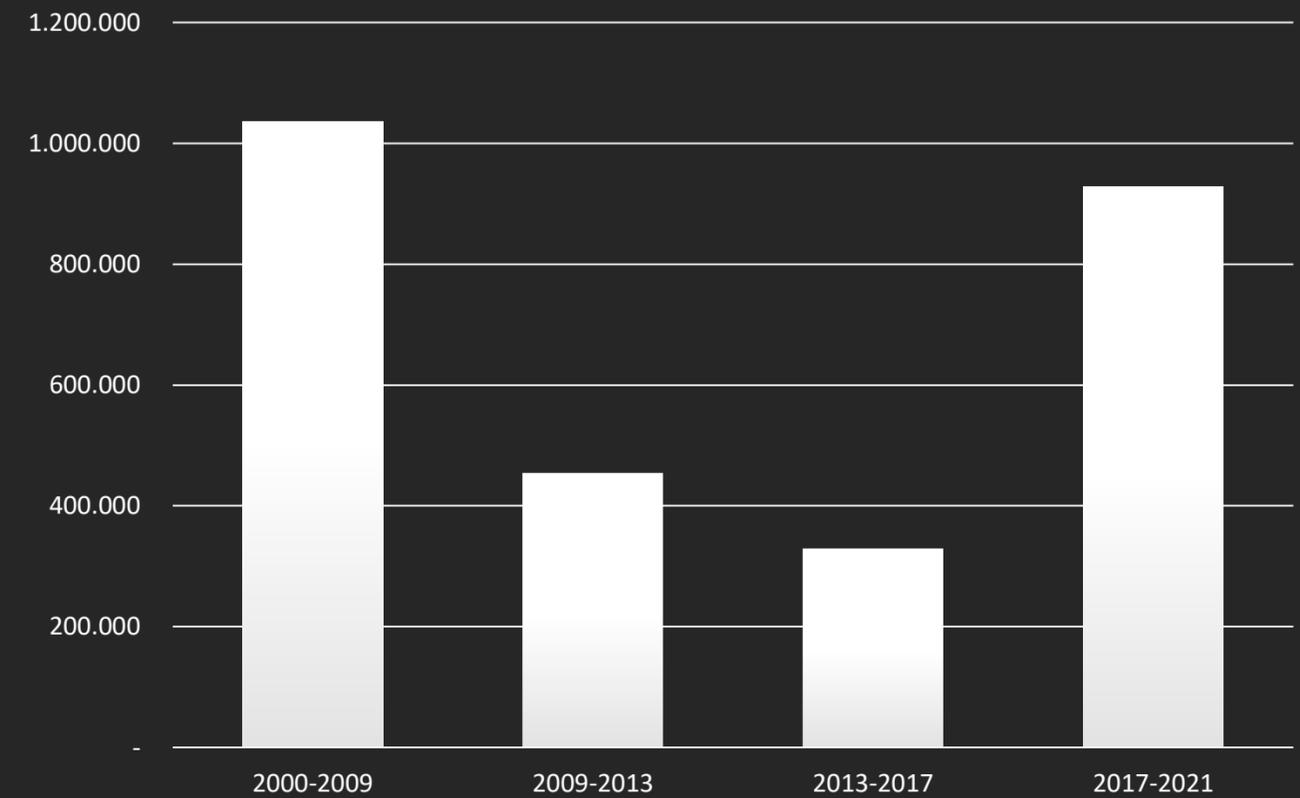
Our new Metodology



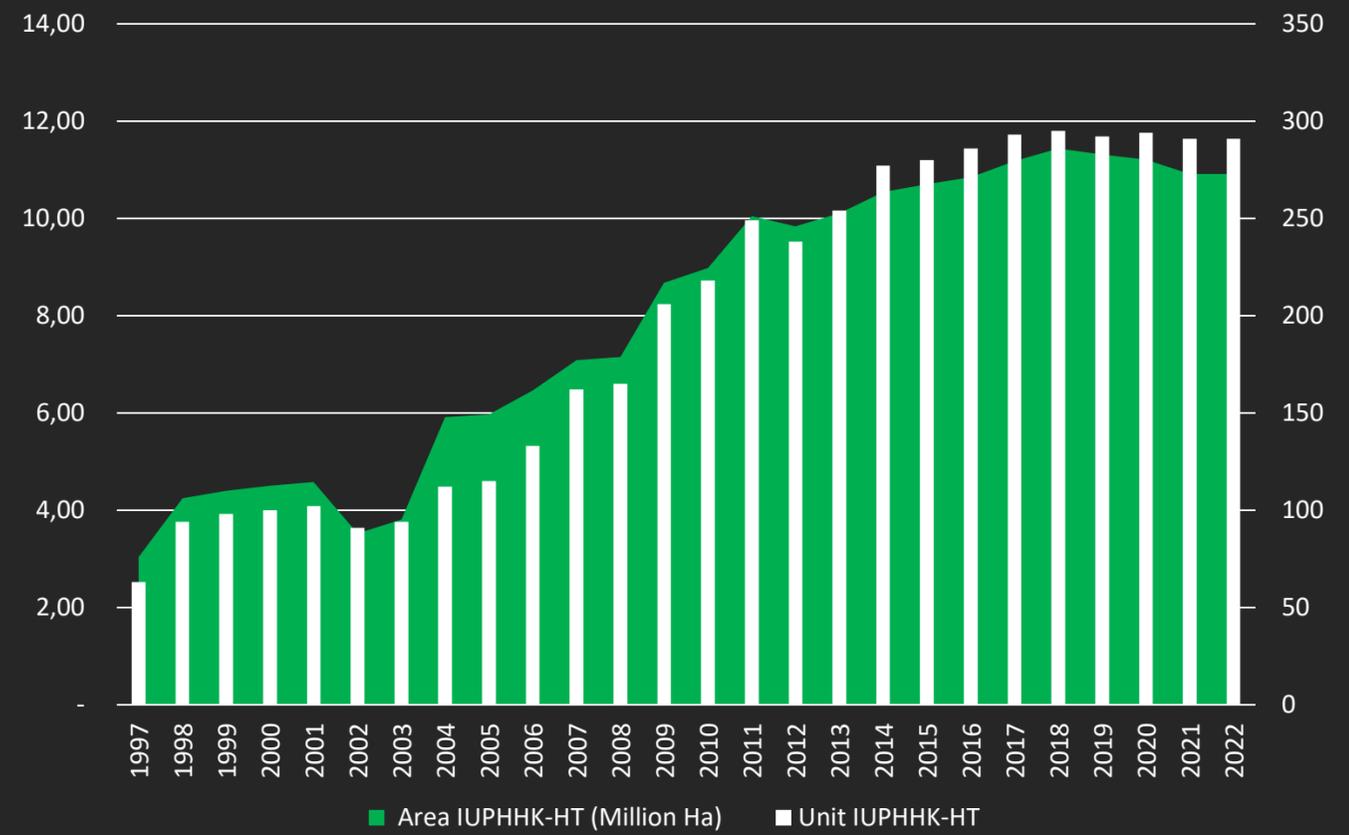
“Resolution is Matter”

HTI / Timber Plantation

The development of permits and deforestation (1997-2022)



HTI deforestation in 2000-2021 (based on sofr fwi analysis)



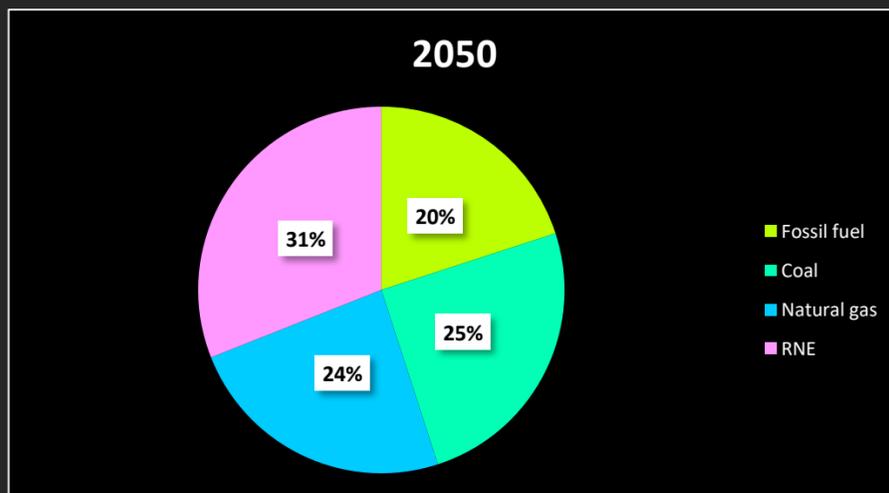
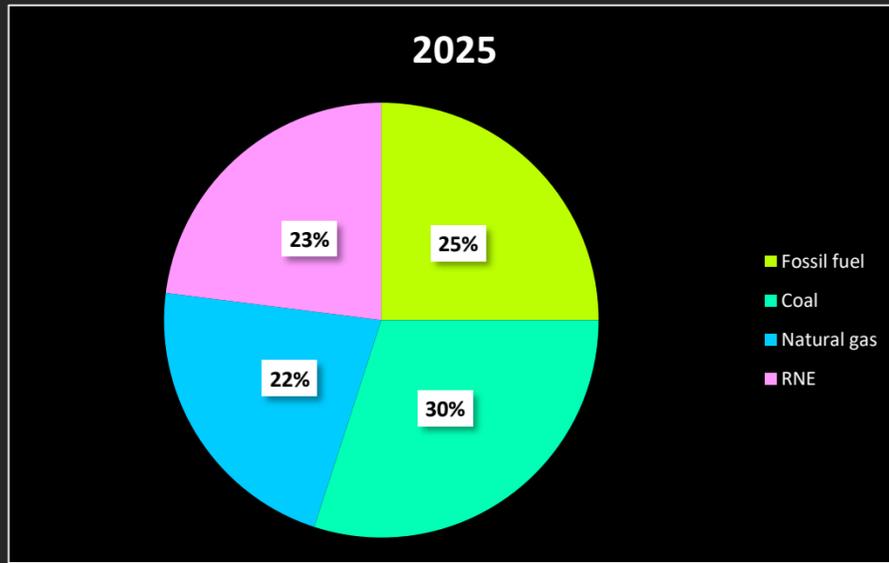
Graphics of increasing HTI permits 1997-2022

HTI development so far has deforested about 2.7 million ha of natural forest

- The number of HTI permits currently reaches 291 permits with an area of 10,9 million ha
- During the 2014-2021 period, the number of permits and their area have stagnated

Why Energy plantations are also a Threat ?

The target of national energy mix :



AMBITIOUS MITIGATION TARGET :
± 97 PERCENT OF TOTAL NATIONAL COMMITMENT ENDC is expected to be contributed by FORESTS & LAND USE AND ENERGY sector

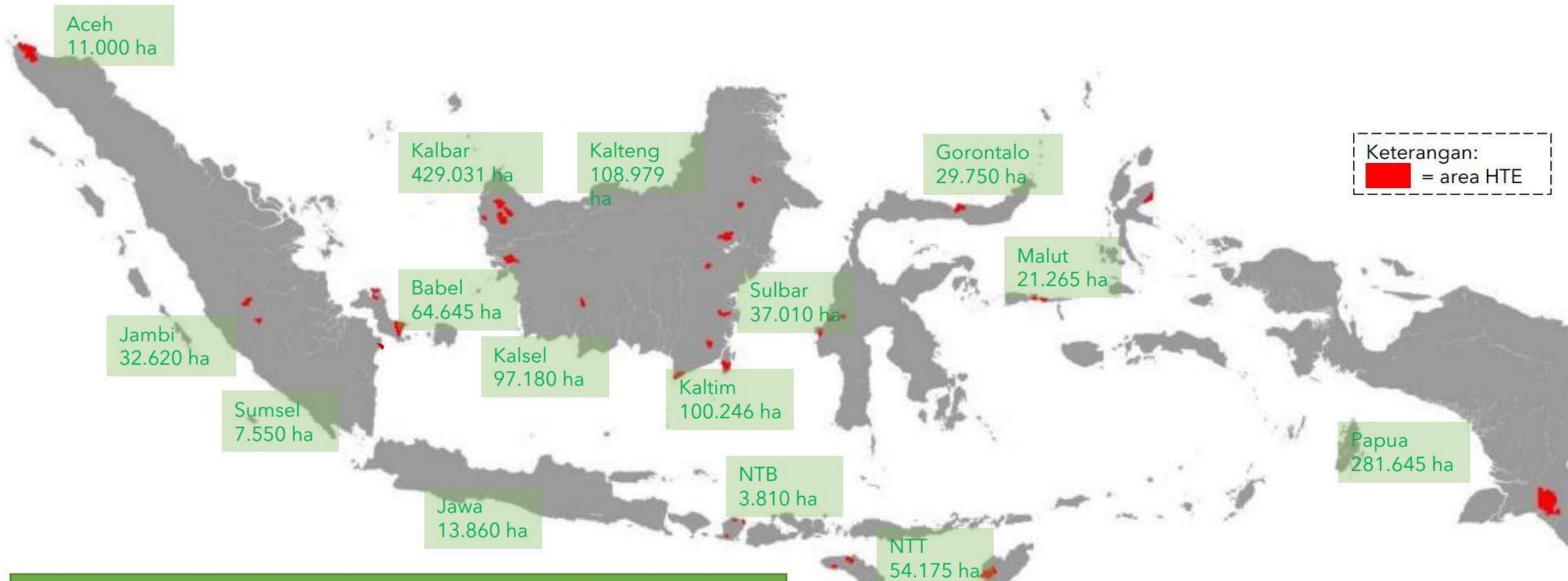
Based on policies issued by the Indonesian government

- Transformation permits of HTI, HPH permits & state/regional owned enterprises
- Ease in obtaining business permits for forest utilization
- The possibility of driving social forestry programs, especially for the type of community plantation forest (HTR)

HTE Potential Area



POTENSI HUTAN TANAMAN ENERGI



Keterangan:
[Red Box] = area HTE

Total luas potensi hutan tanaman energi (HTE) = 1.292.766 ha
Total unit usaha yang berkomitmen mengembangkan hutan tanaman energi dan bioenergi = 31 unit usaha

Sumber: Dit. Usaha Hutan Produksi KLHK

PROJECTION & TARGETS



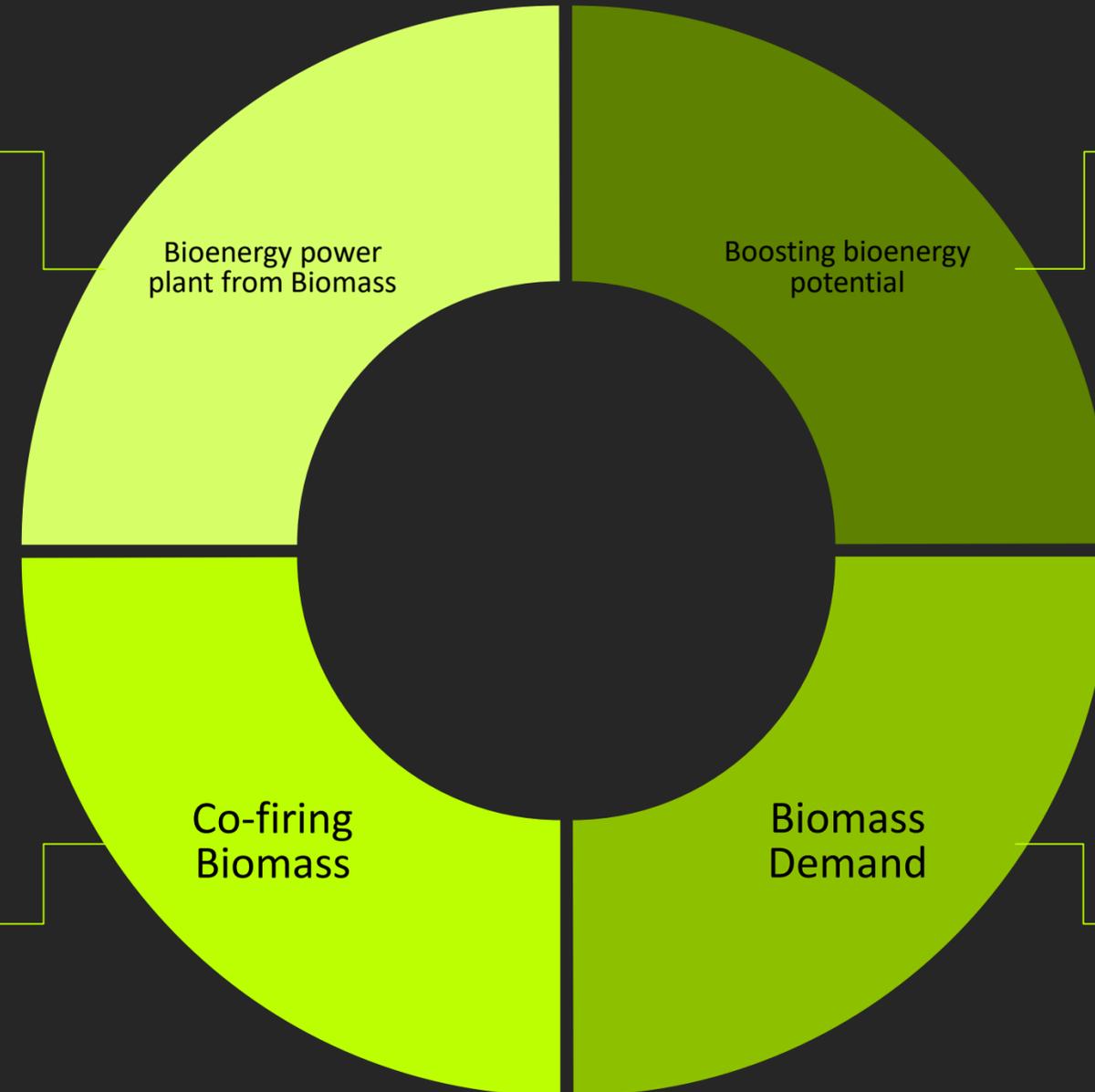
Based on RUEN & RUPTL 2021-2030 document

Targets

- 2025 : 12,2% (5,5 GW)
- 2050 : 15,5% (26 GW)

Increasing

- Existing 2015 : 5,1%
- Until 2050 : targeted 80%



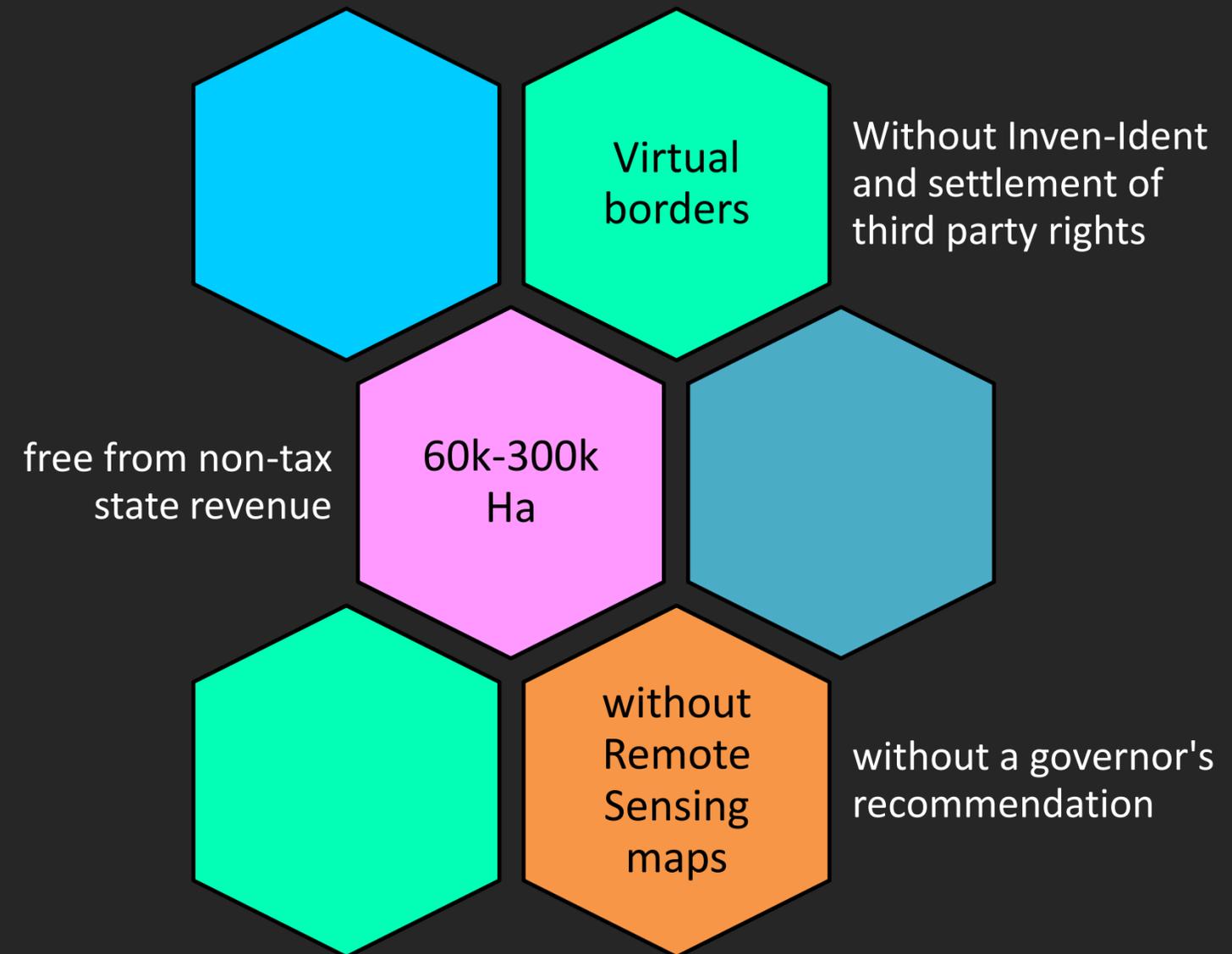
5-10 % Co-firing

- 2,7 GW from 52 Electric steam power plant

Needs

- 2025 : 8,4 Mt
- 2050 : 22,7 Mt

Exclusivity of energy plantation in forest areas such as :

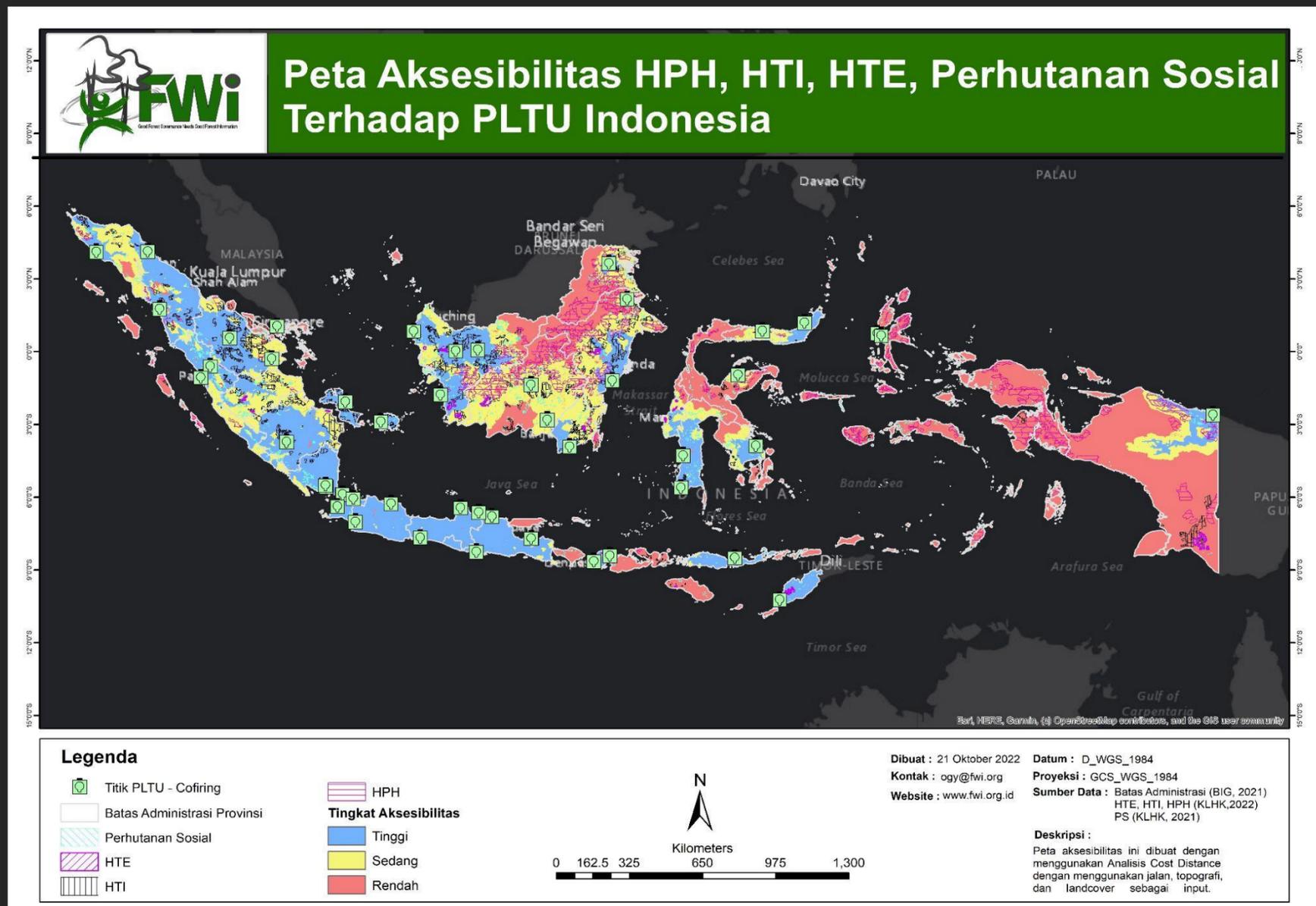


Exclusivity

At least exclusivity has the potential to increase the threat status of natural forests outside of licensing concessions in the function of production forest areas with an area of 17.2 million hectares.

Accessibility

Accessibility map of HTI, HPH, & Social forestry against the 52 power plants

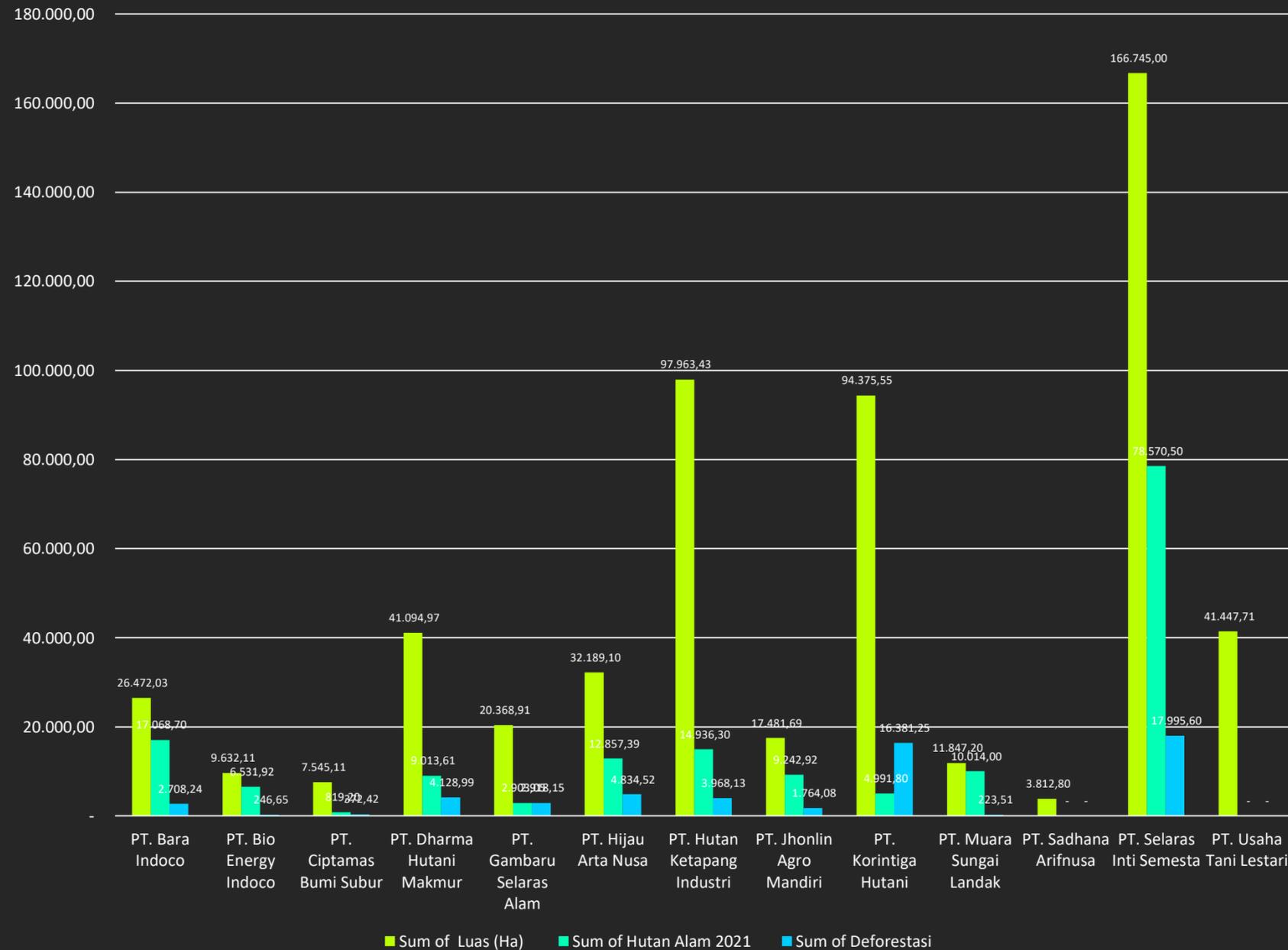


High accessibility by region

- HPH : Borneo 25 permits; Sumatra 9 permit; Papua and Maluku 8 permits; and Sulawesi 1 permit.
- HTI : Borneo 61 permits; Sumatra 79 permits; Bali Nusra 2 permits; and Sulawesi 5 permits.
- SF : Customary Forest 39 permits; HTR 117 permits; HD 308 permits; and HKm 550 permits.

PORTRAIT OF **DEFORESTATION** FOREST PRACTICE ON HTE

Concession Area, Natural Forest, and Deforestation (Ha) in 13 HTI Companies



Based on 13 implemented HTE:

- Spread from Aceh – Papua
- Sum of total concession : 570k ha
- Deforestation 2017-2021 : 55k ha
- Forest cover 2021 : 167k ha
- Allocated for HTE : 142k ha (24,8% total area concession)
- Which one needs to be considered...?
- and there are still 18 more who have committed!

What to do??

1

The need for field monitoring, especially outside the island of Java

2

Supply chain research and demand supply, both domestic and export needs

3

Encourage government to open the data, especially potential locations in the future

4

Joint campaign related to the threat of HTE expansion, both at national and international level

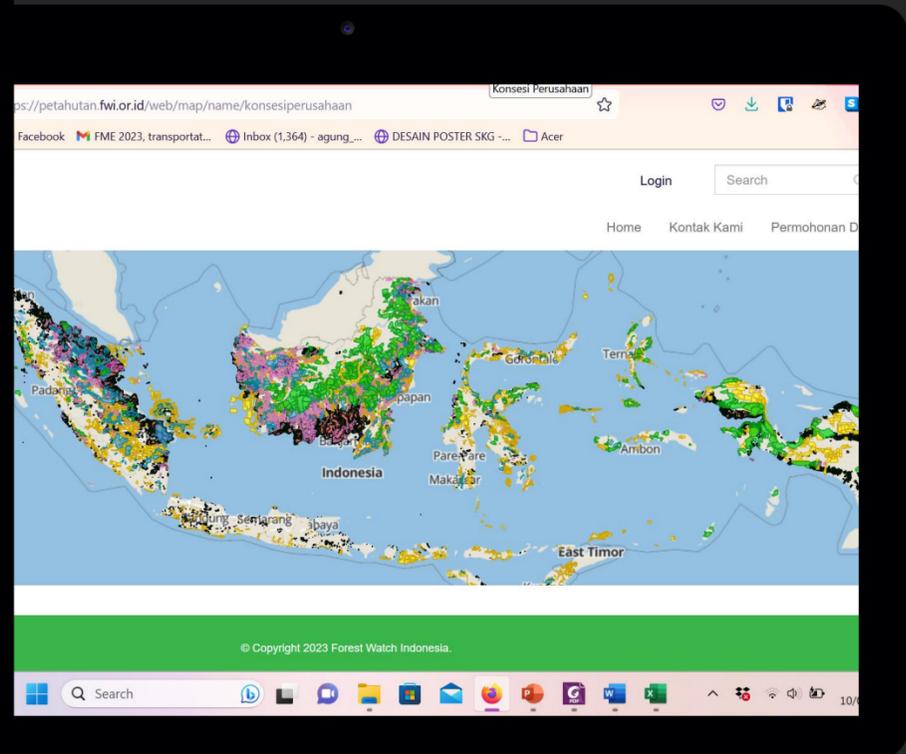
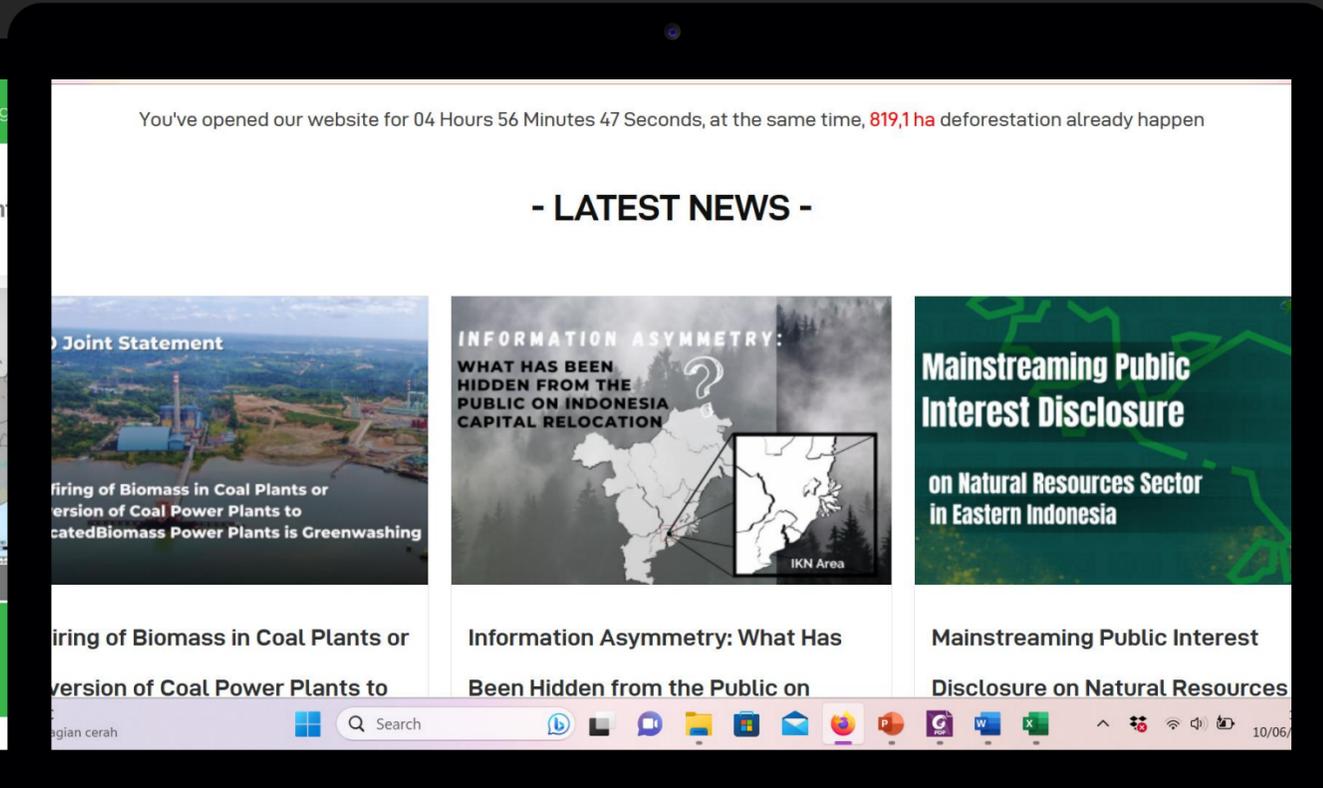
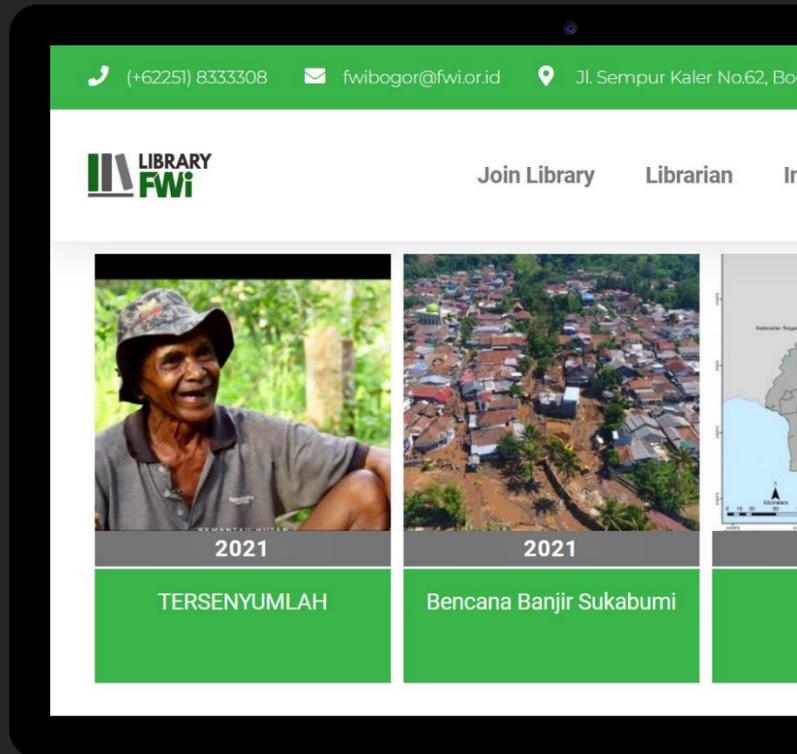
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Holding regular coalition meetings

- **FWI** will continue to provide up-to-date and credible data about the condition of Indonesia's forests and their threats
- We need **a network** that can enrich our research and utilize it for future campaigns and advocacy purposes
- **Information and funding channels** that maybe related to this HTE monitoring work
- Considering the ease of licensing, exclusivity and also very affordable accessibility, this **HTE expansion** in the future could threaten natural forests covering an area of **around 17 million ha**

Key notes :

Using all existing policy tools, such as multi-business policies, wood biomass energy transition policies, and ease of licensing using an online single submission platform, companies are ultimately used to perpetuate control over forests and land within their concessions. As well as becoming a new way of deforestation in the management of forest resources in Indonesia. We assess the importance of reviewing the implementation of policies that actually encourage increased deforestation. **“Loss of natural forest cannot be replaced by emissions, because natural forest has a function and role that can never be replaced by plantations or plantation forests”.**



THANK YOU!

Agung Ady Setiyawan
Forest Watch Indonesia - 2023

Any Questions?