

The emerging implementation framework for REDD+ in Indonesia

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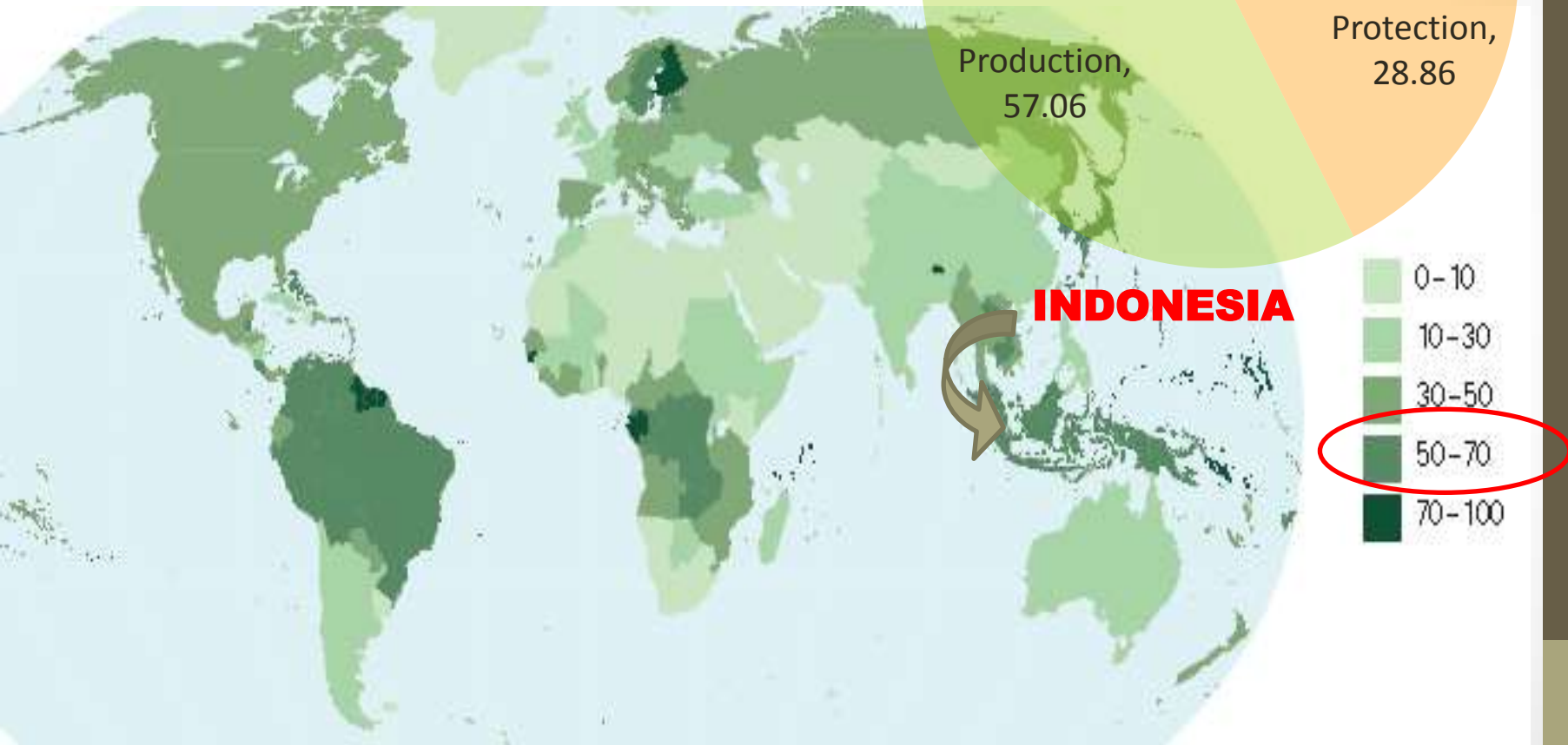
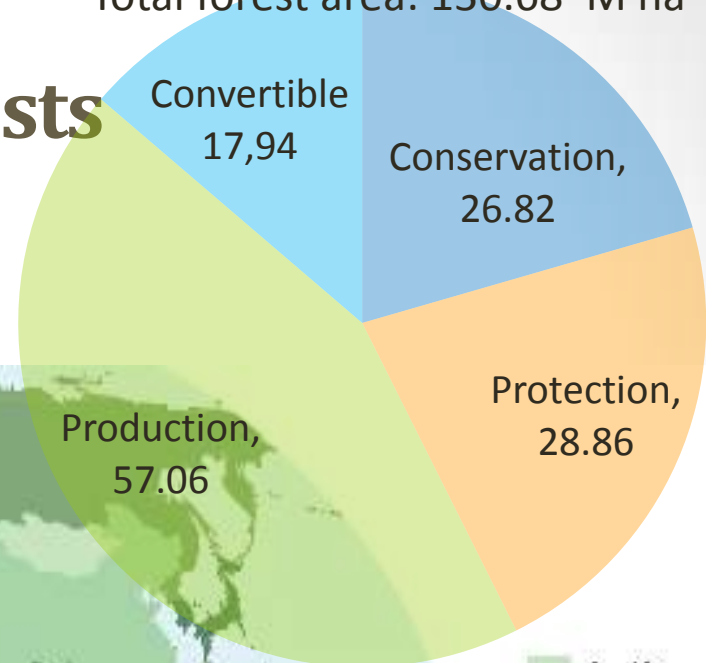
OUTLINE

- ❑ FOREST IN INDONESIA
- ❑ REDD+ INDONESIA
- ❑ NATIONAL – SUB NATIONAL APPROACH
- ❑ HOW WE DEAL WITH REALITY ?
- ❑ NATIONAL STANDARD FOR
DEMONSTRATION ACTIVITIES
- ❑ EXPERIENCE IN REL/RL CONSTRUCTION

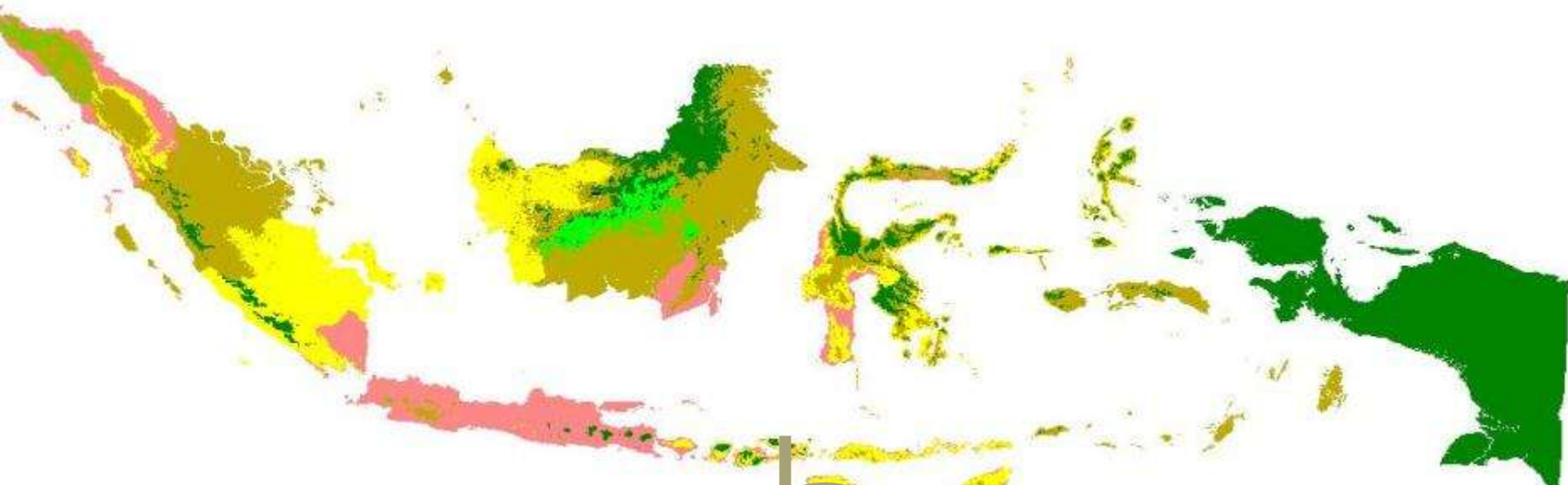
Indonesia and World Forests

Forest area as percent of total land area by country, 2010 (FRA 2010)

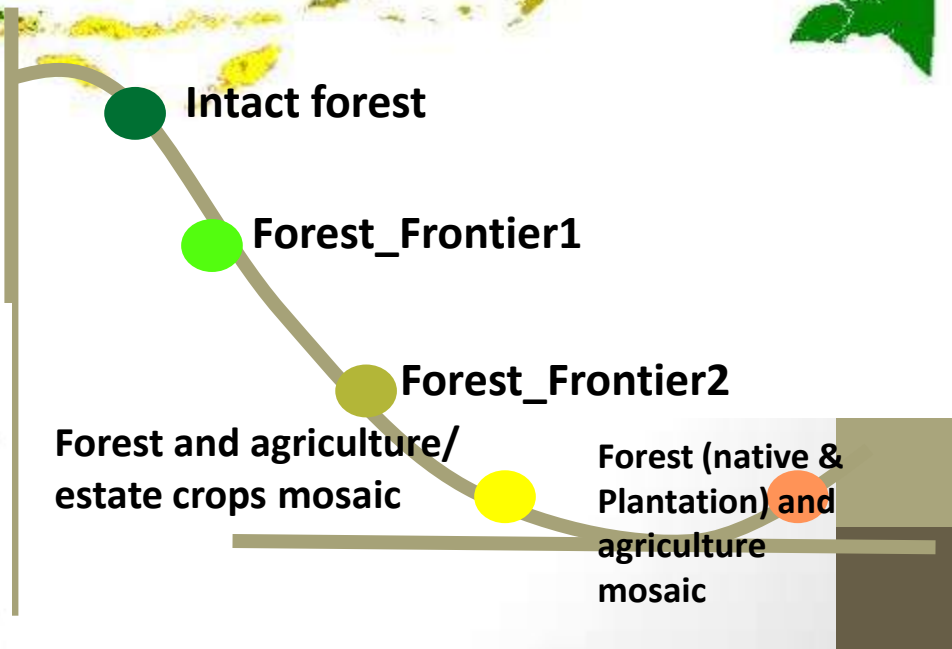
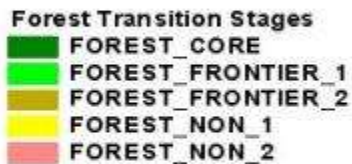
Total forest area: 130.68 M ha



INDONESIA'S FOREST IN TRANSITION CURVE



Source: ICRAF (2009)



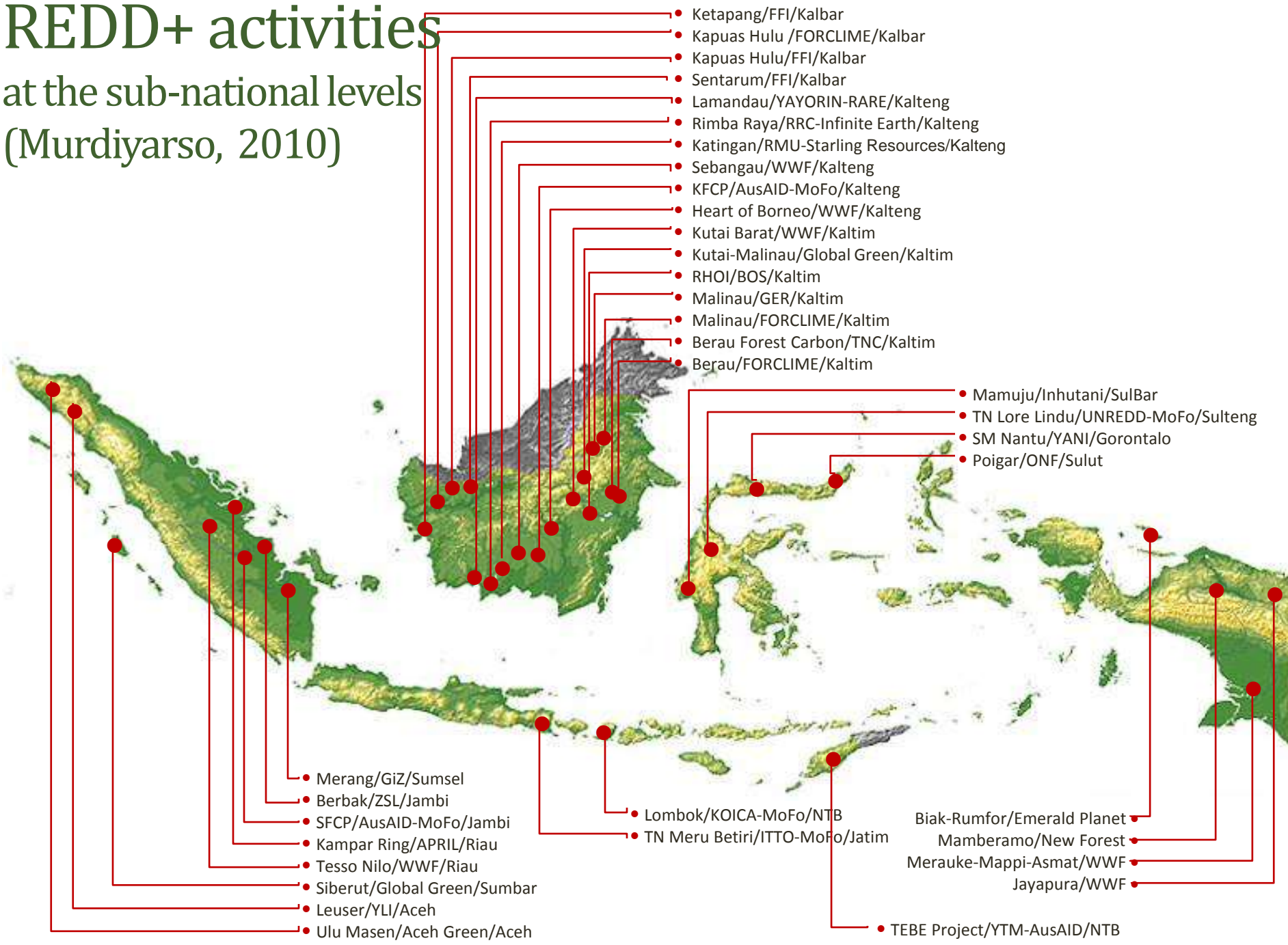
REDD+ Indonesia

- ❑ Designed base on IFCA study and stakeholders communications (2007), negotiation position : national approach with sub-national implementation (province, district, forest management unit/FMU that can be bundled to higher level) → ~ jurisdictional approach,
- ❑ Issues to be addressed in national – sub national approach :
 1. Division of tasks between national and sub-national authorities and among sectors at the same level (in addressing : drivers of deforestation and forest degradation, governance , land tenure, gender, displacement of emissions, risks of reversals),
 2. Methodology (international/? COP decision, national? : consistency, accuracy, completeness, comparability),
 3. Systems to be developed (NFMS, MRV, SIS),
 4. Benefit sharing,
 5. Linking UNFCCC negotiations to implementation at the national and sub national levels,
 6. Sub-national authorities need guidance from national government.

National – sub national approach

- ❑ Allowing parallel process at the national and sub-national levels,
- ❑ As a result, many activities emerges at different levels : local/project level (DA), district level (DA), and provincial levels (Strategy and Action Plan, Institutional framework),
- ❑ DA at the local/project level : diversity in spatial and temporal scales, scope of activities, approach, methodology used by DA/REDD+ activities on the ground → caused some confusions both at the national and sub-national levels.

REDD+ activities at the sub-national levels (Murdiyarso, 2010)



- Ketapang/FFI/Kalbar
- Kapuas Hulu /FORCLIME/Kalbar
- Kapuas Hulu/FFI/Kalbar
- Sentarum/FFI/Kalbar
- Lamandau/YAYORIN-RARE/Kalteng
- Rimba Raya/RRC-Infinite Earth/Kalteng
- Katingan/RMU-Starling Resources/Kalteng
- Sebangau/WWF/Kalteng
- KFCP/AusAID-MoFo/Kalteng
- Heart of Borneo/WWF/Kalteng
- Kutai Barat/WWF/Kaltim
- Kutai-Malinau/Global Green/Kaltim
- RHOI/BOS/Kaltim
- Malinau/GER/Kaltim
- Malinau/FORCLIME/Kaltim
- Berau Forest Carbon/TNC/Kaltim
- Berau/FORCLIME/Kaltim

- Mamuju/Inhutani/SulBar
- TN Lore Lindu/UNREDD-MoFo/Sulteng
- SM Nantu/YANI/Gorontalo
- Poigar/ONF/Sulut

- Merang/GiZ/Sumsel
- Berbak/ZSL/Jambi
- SFCP/AusAID-MoFo/Jambi
- Kampar Ring/APRIL/Riau
- Tesso Nilo/WWF/Riau
- Siberut/Global Green/Sumbar
- Leuser/YLI/Aceh
- Ulu Masen/Aceh Green/Aceh

- Lombok/KOICA-MoFo/NTB
- TN Meru Betiri/ITTO-MoFo/Jatim

- Biak-Rumfor/Emerald Planet
- Mamberamo/New Forest
- Merauke-Mappi-Asmat/WWF
- Jayapura/WWF
- TEBE Project/YTM-AusAID/NTB

- ❑ Recommendation of the first workshop to review existing DA/REDD+ activities on the ground (2010) :
 - The need for standardized methodology,
 - The need for formal recognition from Central Government,
 - The need for guidance for DA.
- ❑ Some regulations (Ministerial Decrees) relating to DA have been put into effect, but were considered not sufficient to address the concerns of actors working on DA .

How we deal with reality ?

Following up the workshop recommendation and the need to address issues relating to national – sub national approach :

- ❑ Develop national standard on ground-based forest carbon accounting, released in 2011 (guided by Dec. 4/CP. 15 : to use combination of remote sensing and ground based inventory approach) :
 - National standard/SNI for measuring emissions/removals/stocks (SNI 7724 : 2011), to be used with SNI 7645 : 2010 on land cover classification, land cover classification by Ministry of Forestry, and IPCC category,
 - National standard (SNI 7725 : 2011) for the construction of allometric equation.
- ❑ Develop national standard for Demonstration Activities, released in 2013 (guided by decision of COP-13, COP- 15, COP-16, COP-17, IPCC-GL/GPG)

National Standard for DA (SNI 7848:2013)

Two types of DA-REDD+ :

- ❑ Type I : DA for learning by doing exercise (e.g. Methodology development/testing, stakeholder participation, awareness raising and capacity building, safeguards implementation, etc)
- ❑ Type II : Result based DA, involving payment /incentive for performance.

Scale : FMU/District/Province ~ jurisdictional approach

General Requirements

- ❑ Consistent with National strategy for REDD+, forest policies, and RAN-GRK,
- ❑ Legal certainty of DA areas (can be in forest and non-forest land)
- ❑ Clear budget or investment plan,
- ❑ Plan of activities,
- ❑ Existence of field activities,
- ❑ Benefit and risks sharing arrangement (for result-based DA)

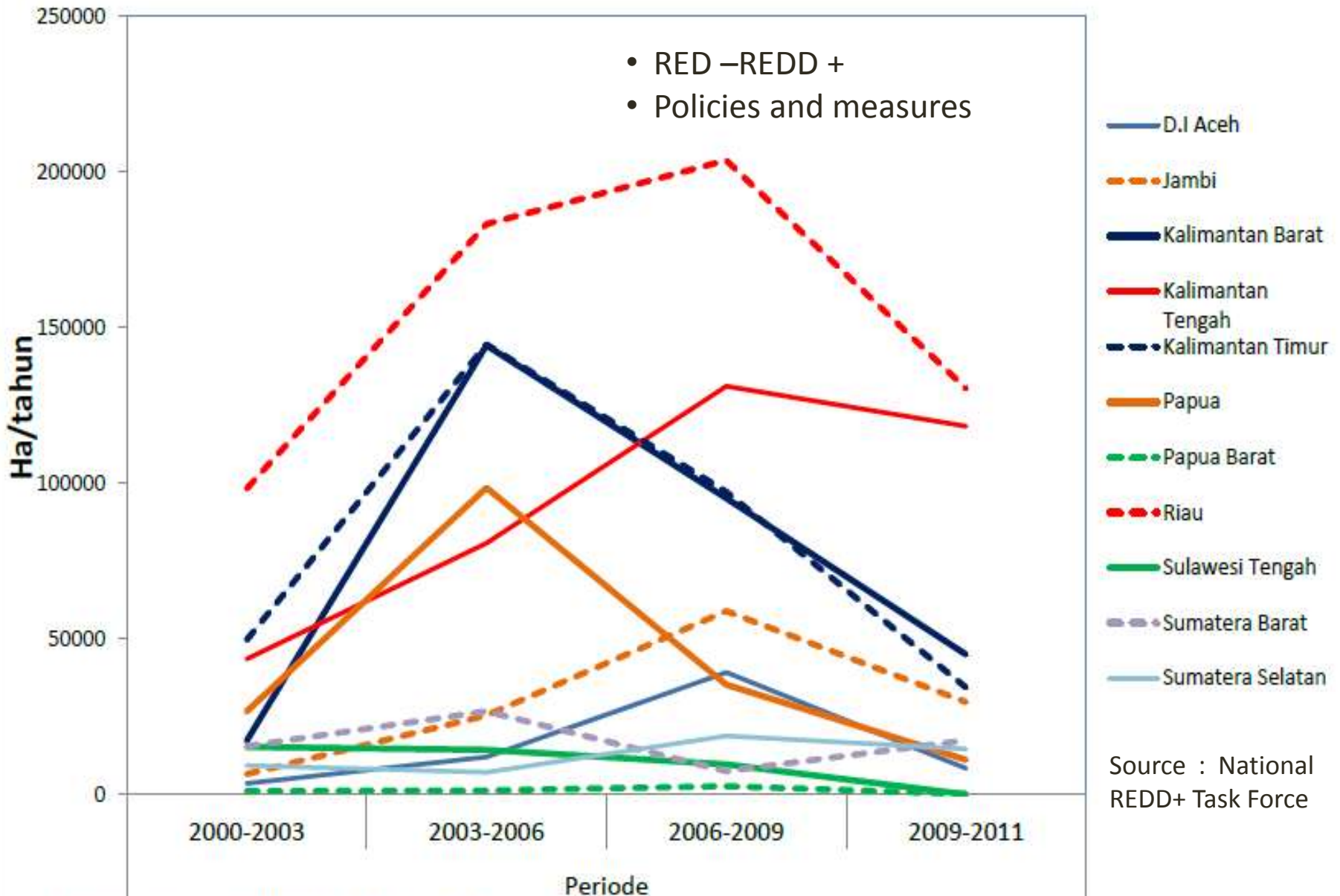
Specific Requirements

- ❑ Administrative requirement : approval from the government
- ❑ Technical requirements/guidance :
 - Boundary/Scale (FMU/District/province)
 - Time frame (max 5 years for Type I DA and min 20 years for Type II)
 - Construction of REL/RL (guided by COP-17 decision and other relevant guidance),
 - Implementation of DA, including potential activities,
 - Safeguards (governance, social, environment : translating Cancun safeguards) → including addressing displacement of emission and risks of reversals
 - M : measuring and monitoring, including non-carbon benefits
 - R : reporting (for internal verification and feeding to UNFCCC and other related reporting coordinated by NFP)
 - V : internal verification by relevant authorities, plus independent verification for result-based DA.

Why consistency is matter ? :

experience from REL/RL construction for REDD+ at 11 pilot provinces under bilateral cooperation with Norway and BAU construction for RAN/RAD-GRK (Domestically supported NAMAs for LULUCF for the same provinces)

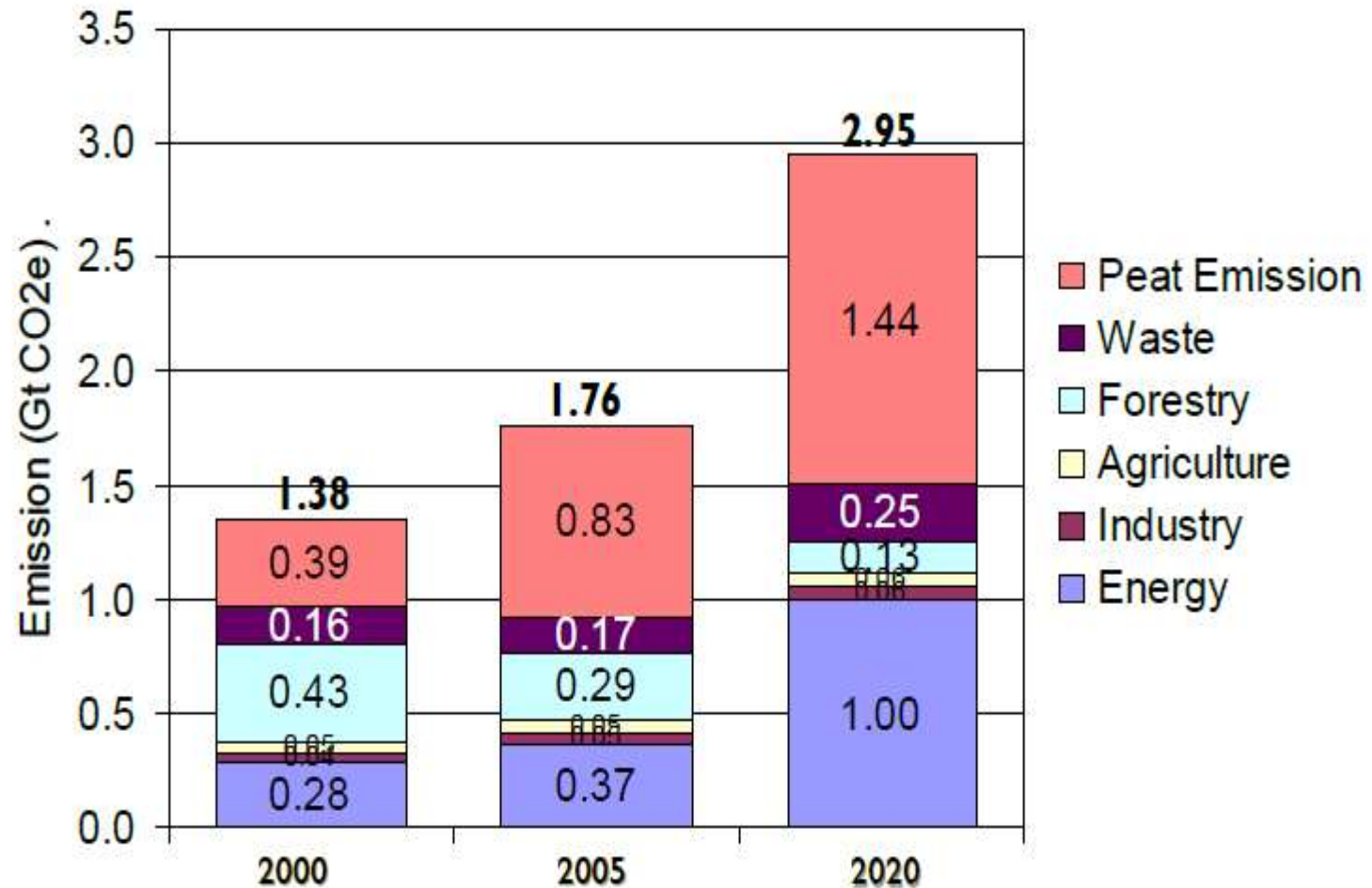
Trend of forest cover lost 2000 - 2011



Sumber : Peta tutupan lahan Kementerian Kehutanan

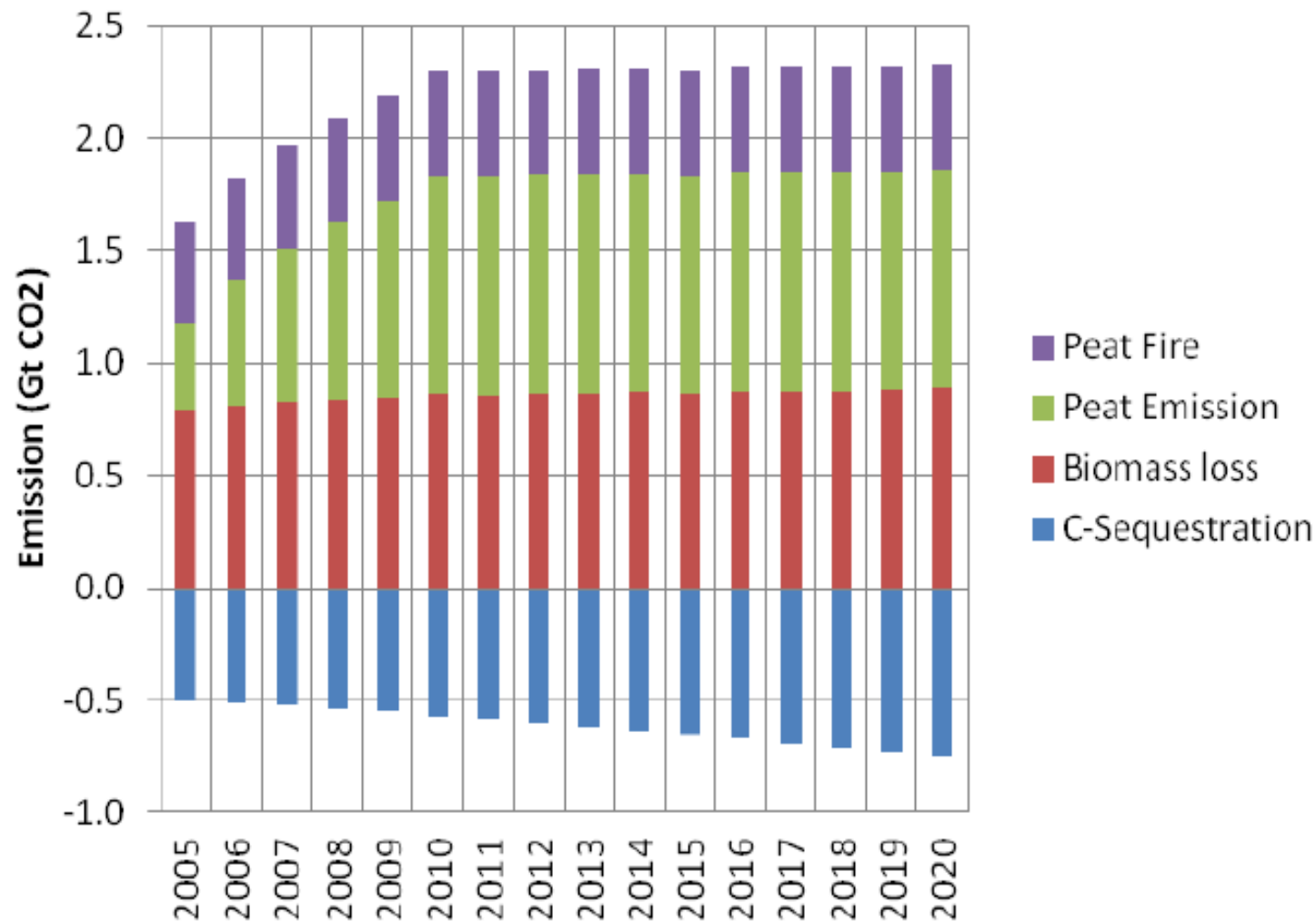
Source : National REDD+ Task Force

National Net Emission projection 2020 (Second National Communication)



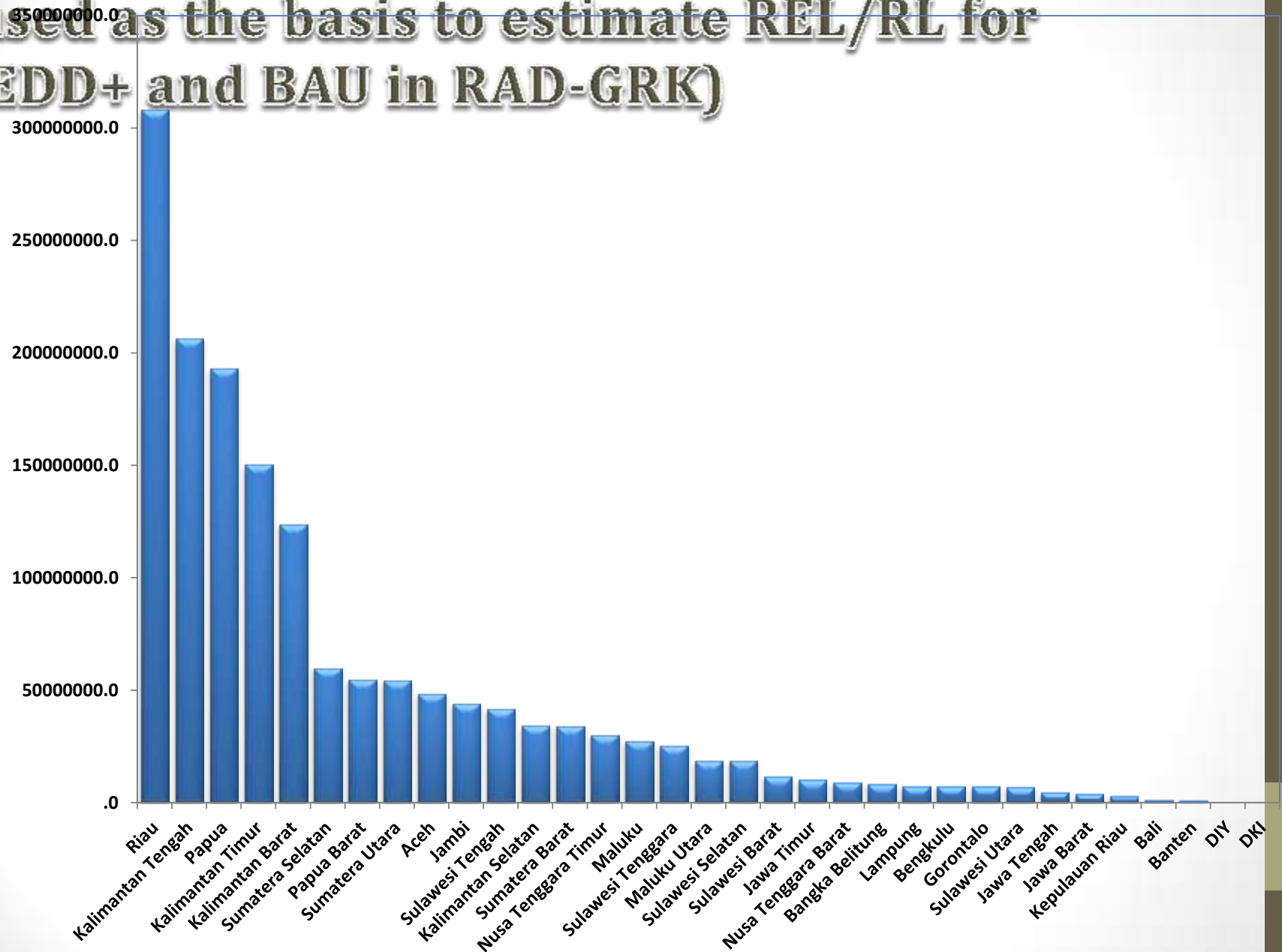
Key source categories are peat emission, forestry, energy and waste. Emission from peat fire was taken from van der Werf et al (2007). The figure in the charts did not include emission from liming and fertilizing

Emission Projection from Peat and Forest and Other Land Use



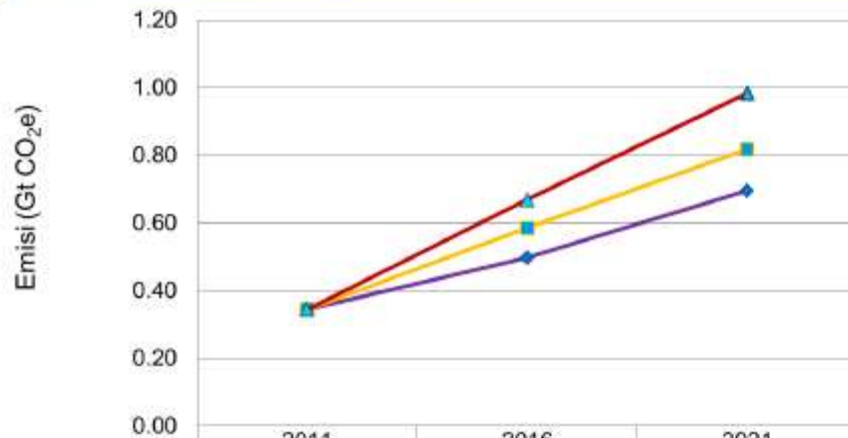
Source : Second National Communication (2011)

Historical emission at the provincial level (used as the basis to estimate REL/RL for REDD+ and BAU in RAD-GRK)



Source : FORDA and Planning Agency, Ministry of Forestry (2010)

Comparison between different approaches between BAU RAD-GRK and REL/RL-REDD+



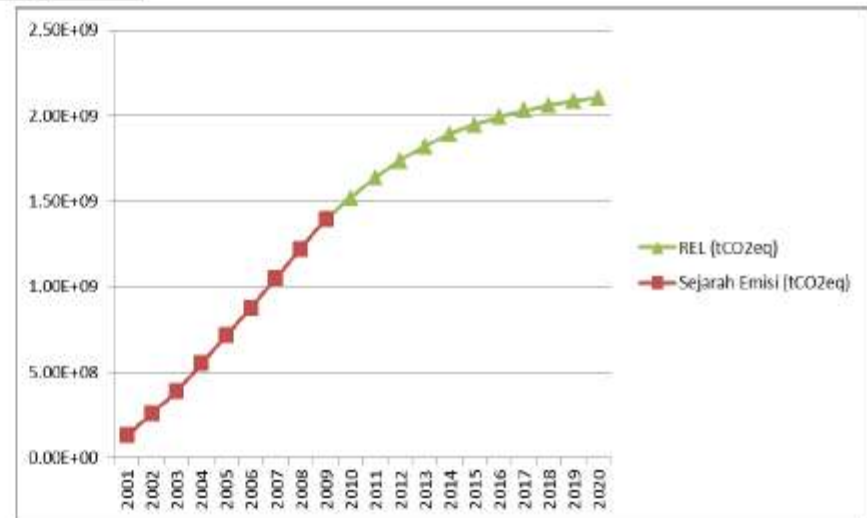
	2011	2016	2021
Penurunan 41%	0.34	0.50	0.69
Penurunan 26%	0.34	0.58	0.82
Emisi Historis BAU	0.34	0.67	0.98

1 Perhitungan RAD-GRK

- Linear Projection (Markov Transition Probability)
- Perhitungan dibantu software ABACUS
- Base year : 2006 - 2011

2 Analisis Satgas REDD+ dengan metode berbeda

- Linear & non linear Projection (3 periode emisi)
- Perhitungan dibantu software Arc GIS, Microsoft Excel dan Curve Expert
- Base year : 2000 - 2009



Emission Projection (2020) for LULUCF under Domestically Supported NAMAs (RAN/RAD-GRK) and REDD+

No.	Provinsi	Emisi 2020 (RAD-GRK) @ tonCO ₂ eq	Pendekatan	Emisi 2020 (Satgas REDD+) @tonCO ₂ eq	Pendekatan
1.	Aceh	36.366.935	Historical	73.015.000	Historical
2.	Riau	41.358.834	Historical	19.430.000	Historical
3.	Sumatra Barat	12.007.838	Historical	8.711.000	Historical
4.	Jambi	22.162.804	Historical	108.230.000	Historical
5.	Sumatra Selatan	13.341.995	Historical	3.169.000	Historical
6.	Kalimantan Barat	32.314.804	Historical	75.200.000	Historical
7.	Kalimantan Tengah	158.164.528	Historical	158.164.528	Historical
8.	Kalimantan Timur	53.932.923	Forward looking	6.060.000	Historical
9.	Sulawesi Tengah	14.346.708	Historical	14.346.708	Historical
10.	Papua Barat	17.580.233	Forward looking	9.526.000	Historical
11.	Papua	162.610.995	Forward looking	72.220.000	Historical
Total		564.188.596 (0.564)		548.072.236 (0.55)	

Emission at GtCO₂eq(s) are given in parentheses

THANKYOU



passion & integrity

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