

Pendanaan REDD+: Pengantar Pemahaman

By:

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PUSAT LITBANG Perubahan Iklim & Kebijakan, BALITBANG HUT, Pelatihan Mekanisme Pembayaran REDD+, Cisarua 21 Desember 2011



APA YG HARUS DIPAHAMI SECARA UTUH UNTUK MEMBANGUN MEKANISME PEMBAYARAN REDD+ ?? (TERM??)

HUTAN DAN PERUBAHAN IKLIM

 "konteks hutan" dalam perubahan iklim dan konteks hutan selama ini APA MASIH SEJALAN ???

Apa REDD ??

Apa REDD+ ??

Note: Bali Action Plan article 1. b. iii (REDD+): Avoiding Deforestation, Conservation, Enhanching C Stock, SMF

3 HUBUNGAN/PERAN HUTAN & PERUBAHAN IKLIM

FOREST C STOCK (Stabilization of terrestrial carbon)

FOREST AS A
SOURCE OF
EMISSION
(REDUCING
EMISSION FROM
DEFORESTATION &
DEGRADATIONREDD)

ABILITY TO ABSORB
CO2 GHG &
Transform into
BIOMASS
(SEQUESTRATIONOLD COMMITMENT - AR-CDM)

TUJUAN adanya MEKANISME FINANSIAL adalah:

OPTIMALISASI UPAYA DUNIA MENCAPAI TARGET PENURUNAN EMISI CO2 melalui:

- Penurunan laju penambahan CO2 ~ REDD
- Penurunan konsentrasi CO2 di udara ~
 SFM dan Enhancement C Forest Stock
- Mempertahankan keseimbangan C Stock
 ~ Forest Carbon yg ada di hutan
 konservasi dan lindung



... Indonesia believe that key components of the work programme identified ,...necessary actions to accelerate and scale up REDD+ implementation including the promotion of private financing and investment.

AWG LCA DURBAN:

- C. Policy approaches ...
- 62. Recalls that for developing country Parties undertaking results-based actions4 referred to in decision /CP.16, paragraphs 73 and 77, to obtain and receive results-based finance, these actions should be fully measured, reported and verified5, and developing country Parties should have the elements referred in decision 1/CP.16, paragraph 71, in accordance with any decisions taken by the Conference of the Parties on this matter;
- 63. Invites Parties and accredited observers to submit to the secretariat, by 5 March 2012, their views on modalities and procedures for financing results-based actions and considering activities related to decision 1/CP.16, paragraphs 68–70 and 72;

- E. Various approaches, including opportunities for using markets, to enhance the cost-effectiveness of, and to promote, mitigation actions, bearing in mind different circumstances of developed and developing countries
 - 77. Defines a new market-based mechanism, operating under the guidance and authority of the Conference of the Parties, to enhance the cost-effectiveness of, and to promote, mitigation actions, bearing in mind different circumstances of developed and developing countries, which is guided by decision 1/CP.16, paragraph 80, and which, subject to conditions to be elaborated, may assist developed countries to meet part of their mitigation targets or commitments under the Convention;

79. Invites Parties and admitted UNFCCC observer organizations to submit to the secretariat, by 5 March 2012, their views on the matters referred to in paragraphs 77 and 78 above, including their experiences, positive and negative, with existing approaches and mechanisms as well as lessons learned;

Kisi-kisi pendanaan utk REDD+ (Forest and climate change)

Forest and Climate Change	Source of Funding/investment (Dalam & Luar negeri)	Where the Value
• Source of Emission (-)	Non Market Based:G to G fundingInvestment Fund	All type of Forests: • Hutan Konservasi
 Value from Sequestration 	 Market Based (buyers): Comply (offset) Voluntary: Direct (Over the Counter), 	Hutan LindungHutan Produksi
 Value from maintaining Forest C 	Future trading Market Based (investment):	Hutan Konversi
Stock	pada perijinan yg adaIjin baru	 Hutan Rakyat/private

Indonesia's Forests for Today and Tomorrow: Pertimbangan Possible Value

Conservation Forests 25.3 m ha.

Protected Forests 30,9 m ha

Production Forests 80.4 m ha

Community Forests



Ecosystem/ Environment Services/ Commodity Renewable Energy (Wood pellet, Methanol-4thGenRenw En)

FOREST & C CHANGE: Mengkaji Peluang utk Value

Major role of forest on climate change:

- 1. EMISSION (the world focus so far)
- 2. SEQUESTRATIONS (old commitment but important)
- 3. STOCK of SOLID CARBON (IGNORING FACTS/World data)
- Kalau menempatkan hutan hanya pada sisi emisi saja berarti HURTING THE VALUE OF NATURE SYSTEM ("tidak sesuai dg akal sehat")

Challenge:

SHOULD BE THE CHANGING OF GLOBAL DEMANDS AND EXPECTATION FROM FORESTS ("REPACKAGING SFM" AND IMPROVING) FINANCIAL SCHEME SHOULD GIVE BENEFITS TO THE COMMUNITIES/FIELD PLAYERS, COUNTRY AND THE WORLD **GREEN ECONOMY**

REDD+ TIDAK BERDIRI SENDIRI / MELEKAT PADA CURRENT SYSTEM

MANAGEMENT HUTAN = MANAGEMENT KARBON HUTAN

HK

HP

HR



DELTA KARBON

- Pencatatan karbon (inventarisasi, RL/REL, ...)
- Pelaporan (MRV)
- KOMODITI TIDAK HANYA KAYU & HASIL HUTAN LAINNYA
- KOMODITI BARU KARBON HUTAN; ENERGI BIOMASA TERBARUKAN
- PENTING
- PETA, REMOTE SENSING/CITRA SATELIT, GROUND CHECK, INOVASI, TEKNOLOGI BENIH/AKAR,
- Analisa ekonomi kehutanan

KONVERSI

BIOMASA POHON → CO2 eq:

BIOMASA POHON kering

MENJADI KARBON = 0.5

KARBON MENJADI CO2 EQ= X 3.7

Biomass to CO2 = X 1.83

Understanding Global picture:

Green Economy

(UNEP 2011, Towards a Green Economy)

Results in improved human wellbeing and social equity, while significantly reducing environmental risk and ecological scarcities"

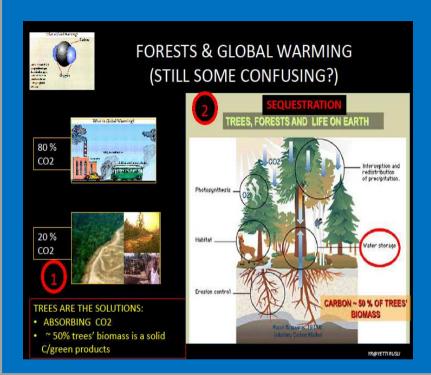
"REDD+ regime may be the best current opportunity to facilitate the transition to a green economy for (from) forestry"

Understanding Global picture:

Continue..
UNEP 2011, Towards a Green Economy

 investing 0.03% of GDP b/w 2011-2050 to conserve forests & private investment for reforestation → >20% increase value added in forest industry compare to BAU

EMISSION vs OR & SEQUESTRATIONS



HURT THE VALUE OF NATURE SYSTEM ("akal sehat")



STATISTIC OF EMISSION & SEQUESTRATION



Challenge:

MITIGATION ACTIONS: JOINTLY SOLVE CO2 BY REDUCING emissions and CAPTURING CO2

Expl of Carbon capture and storage (CCS)

"CCS" INDONESIA
"VIOCE of FORESTS"



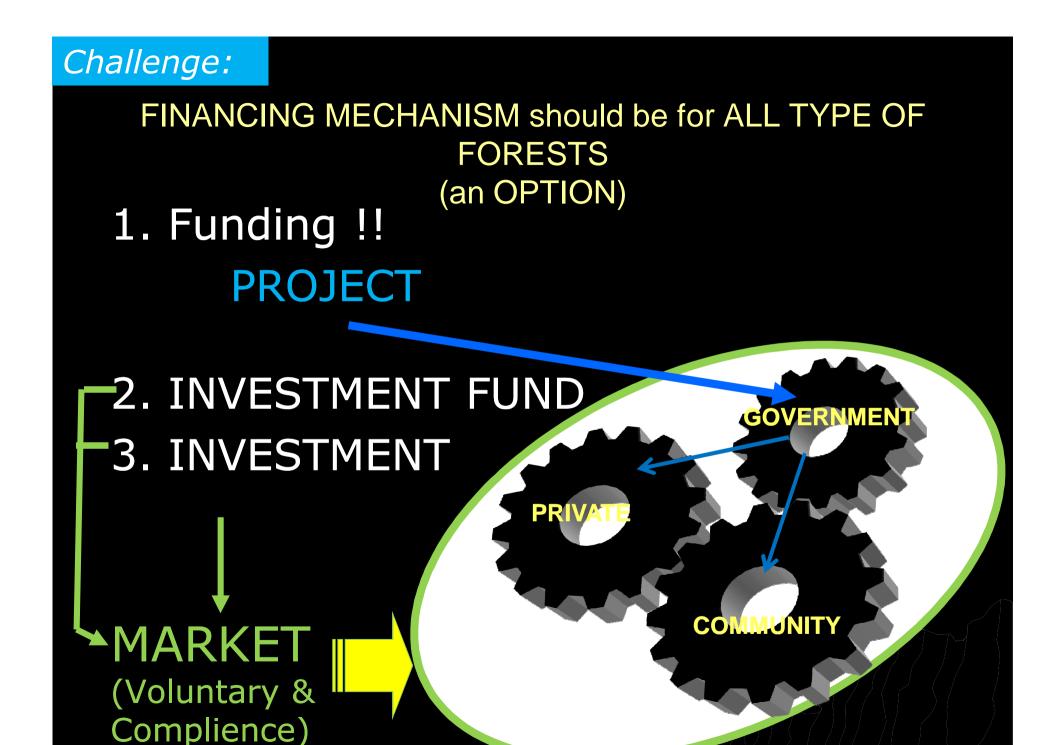
Challenge:

Alternative (Financing option):



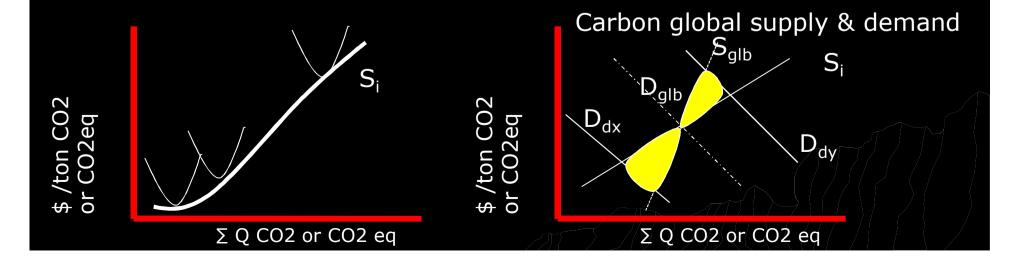
Market for private investment

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UNDERSTANDING ECONOMIC OF CLIMATE CHANGE: FOREST RELATED

- SCHEME AND VALUE OF CARBON FORESTS (Sequestration, Stocks, -Emission)
- TRANSFER PRICE MECHANISM (market based), Carbon Offset...
- Eliasch Review 2008: have to include forests carbon in the market for ambitiuos overall emission target
- WHAT IS ABATEMENT COST, COST CURVE, long-term, global /regional supply-demand



Challenge: FOREST CARBON, CLIMATE CHANGE (QUADRAN OF COMPANIONSHIP/STARTER KIT) + 20% CO2 + 80% CO2 EMISSION FROM FOSIL FUEL FROM DEFOR/ **LULUCF** Reducing emissions: Trees as a Clean Technology remedy/cure for CO2 in the atmosphere Clean energy (ABSORBING CO2 Markets (complience, **COOLING DOWN** REDD THE EARTH) voluntary) E

NATIONAL,

LOCA

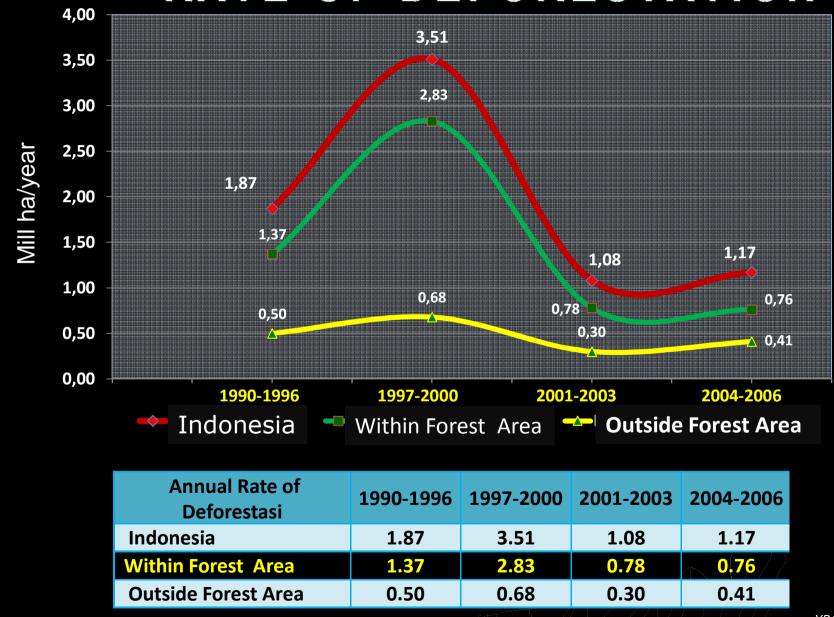
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GLOBAL



REPORT ON REAL ACTIONS RATE OF DEFORESTATION



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		 Hutan Rakyat/private

MEKANISME PEMBAYARAN REDD+ ???

INDONESIA SHOULD WELCOME ALL POSSIBILITIES ...under consideration of:

- 1. Possible and workable
- 2. Optimal for the development,
- 3. Acceptable by partners/world

Indonesia has modalities for all activities for all type of forests:

The activities range from conventional forestry program (SFM, Conservation, community etc), AR CDM, REDD, REDD+ (REDD, Conservation, enhancing c stock, SFM), Up to new programs within forest and climate change (Wood Pellet, Wood Methanol)

Challenge:

DISKUSI DAN PELATIHAN MEKANISME PEMBAYARAN REDD+

AGAR

MEMPERTIMBANGKAN BUTIR-BUTIR DIATAS

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KLARIFIKASI KERANGKA PIKIR (??)



REDD+ ???



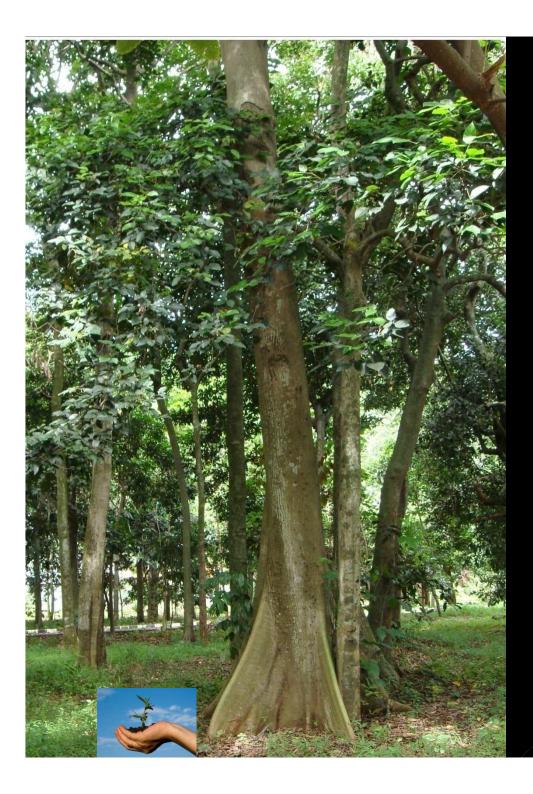
- Current Management
- And Improve -- Carbon

Market &
Non Market

 Based on forest functions (HK, HL, HP, HR/APL)

Return / benefits

- on BAU
- on Carbon
- on BAU and Carbon



Thank you

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