REDD+ IN A GREEN ECONOMY

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WHAT IS FORESTS

- FAO: Forest has a canpy of minimum 10%, with minimum 5 meter tree’s hight, minimum 1,5 ha where land use is not dominated by agriculture;
- Through physical and biological photosynthesis process, forets can absorb carbon in a reservoir of carbon sink, thereby recusing it from carbon-cycle;
- Forests carbon pool forms biomass above and below the soil & dead wood, organic waste and peatland;

DEFORESTATION AND FOREST DEGRADATRON

- Deforestation = forest conversion by human beings, reducing structure and forests canopy below the 10% threshold of healthy forests;
- Forest degradation = changing the structure and function of the forest that reduces forest capacity to supply products and forest's services, including reducing carbon stock;
- These processes have no market values and require intervention into the market through "payment of ecosystm services";

WHAT IS REDD+

- Reducing emissions from deforestation and forest degradation and enhancing forest carbon stocks in developing countries;
- CO2=Pop.X GDP/Pop.X Forest sector develop/GDP X REDD+/Forest sector development X C02/REDD+

CO2 emission is a function of:

1/Population Dynamics;

2/GDP growth per capita;

3/Forests sector develop. per GDP;

4/REDD+ development per forest sector;

5/C02 control per REDD+ development.

WHY IS REDD+ NEEDED

- REDD+ reduces CO2 emission naturally through fo-rest and thereby reduces the potentials of global warming that affect climate change;
- Historical process of CO2 concentration: 18th century 280ppm, 1958: 315 ppm; 2007: 383 ppm. If it reaches 560 ppm global warming will reaches 1.5 to 4.5* Celcius, with sea-level rise of 90 cm and the destuction of biodiversity and life supporting eco-system;
- Indonesia along the equator will be strongly affected negatively by climate change;

WHAT IS “GREEN ECONOMY”

- UNEP: A geen economy results in improved human well being and social equity, while significantly reducing environmental risks and ecological scarcities;
- Simplest expression: a green economy can be thought of as one wich is low carbon resource efficient and social inclusive;

<u>Econ.goal </u>: Improved Human Well Being;

<u>Social Goal</u>: Social quity;

<u>Environmental Goal</u>: Ecological footprint below bio-capacity to sustain continued function of ecological life support system.

REDD+ AND MARKET CORRECTION

- REDD+ = Green Economy mechanism to correct "market failures" through market intervention by the use of "Payments for Ecosystem Services";
- REDD+ forms an integral part of "geo-spatial & geo-portal mapping" including "custom-law spatial mapping", which guide spatial development;
- Local adat society plays a crucial role in alocating natural space for development in accordance to local wisdom based on preserving nature as life support system;

REDD+ AND GREEN ECONOMY

- The guiding force of green economy is to transform development process from “resource exploitation” to “resource enrichment”through the use of science and technology raising value added of nature;
- It changes the behaviour of industrialization from “creative destruction” to “creative creation” ap-proach, & thereby enabling sustainability of dev.;
- REDD+ enables green economy to raise people’s welfare while simultaneously reduces CO_2 to avoid global warming & climate change negative effects;

REFERENCES

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