



# INDONESIA -

## LESSON LEARNED FROM INTENDED NATIONALLY DETERMINED CONTRIBUTION (INDC) IN AFOLU SECTOR

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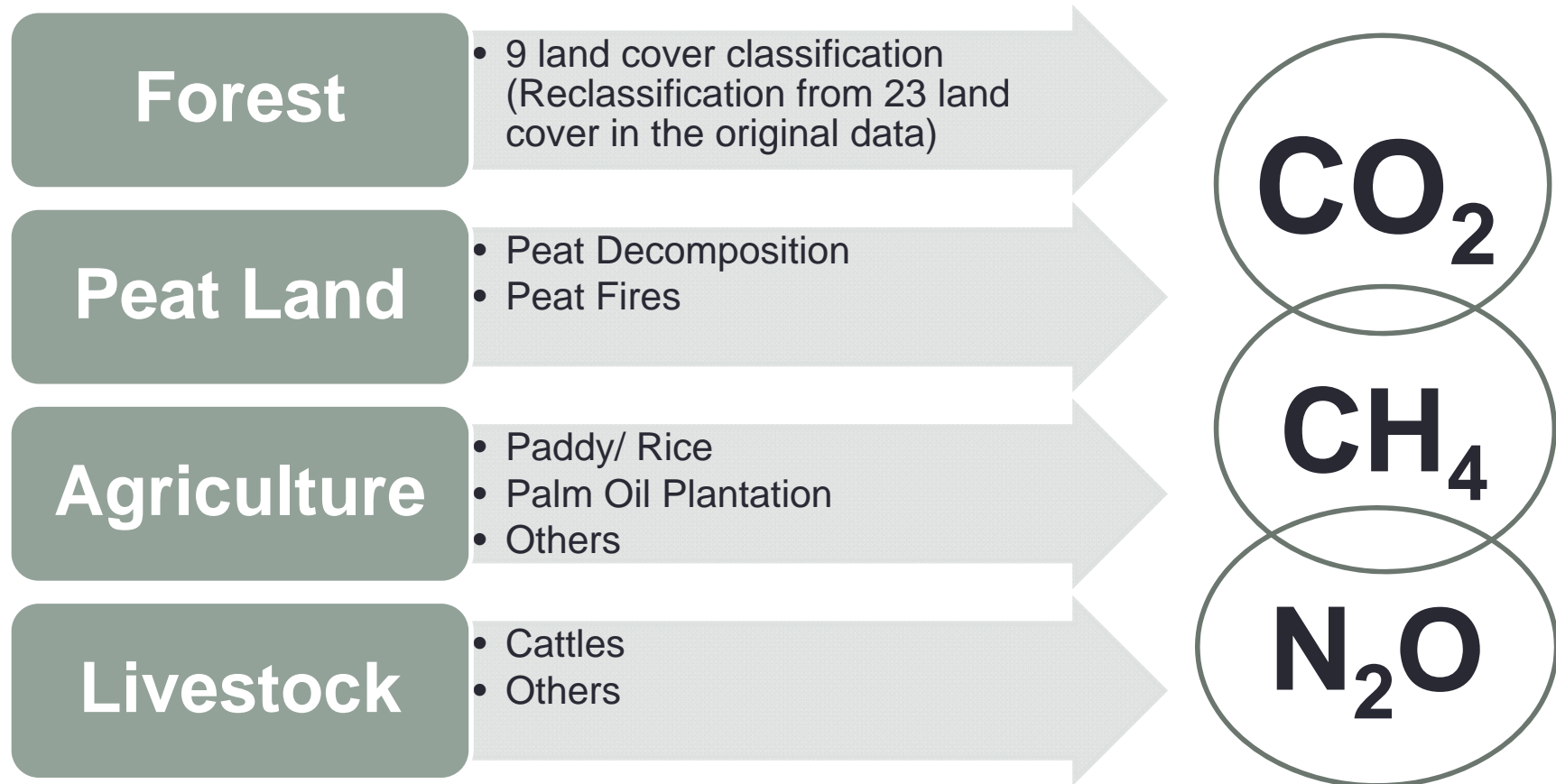
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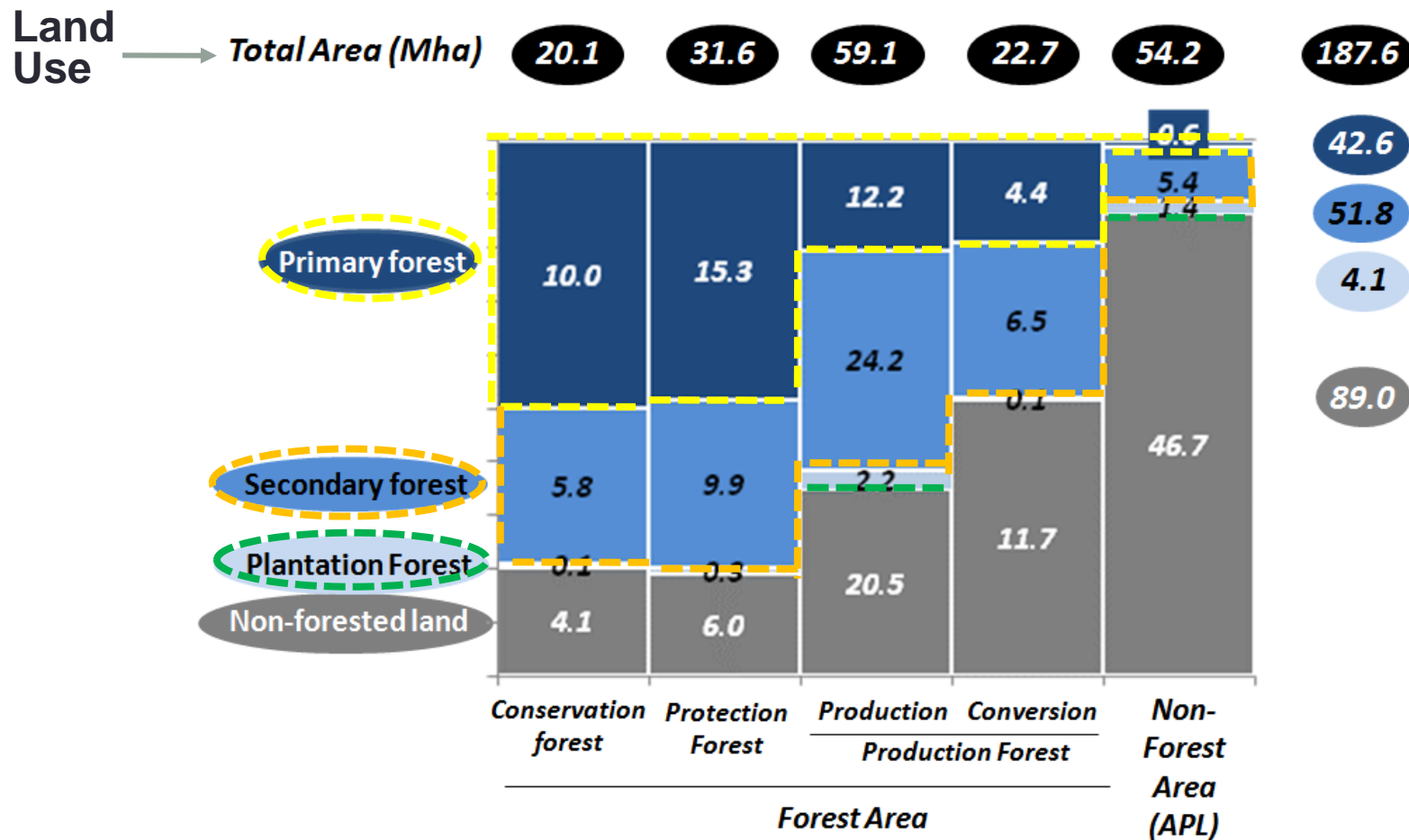
**Presented at the 24th Asia-Pacific Seminar on Climate Change on Indented Nationally  
Determined Contributions (INDCs)  
Bangkok, 29-30 June 2015**

## Boundary/Scope of Forest and Land Based Sector Model

### WHAT DO WE MEASURE? Emission from ...



# Boundary/Scope of Forest and Land Based Sector Model



Sumber: Indonesia 1<sup>st</sup> Biennial Update Report (BUR) (draft)

## Steps to Estimate the Baseline from the Land-Based Sector (1):

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1. Collect land cover from 2000,2003,2006,2011.
2. Reclassify 23 land cover categories into 9 categories for each forest function (e.g. conservation; protection; production; convertible production; other land use).
3. Measure the land cover transition among 9 categories from 2000-2003, 2003-2006 and 2006-2011.
4. Adjust the matrix by adopting tabular data from the Ministry of Agriculture for palm and paddy area
5. Adapt the matrix transition into stock-flow diagram in the System Dynamics model.

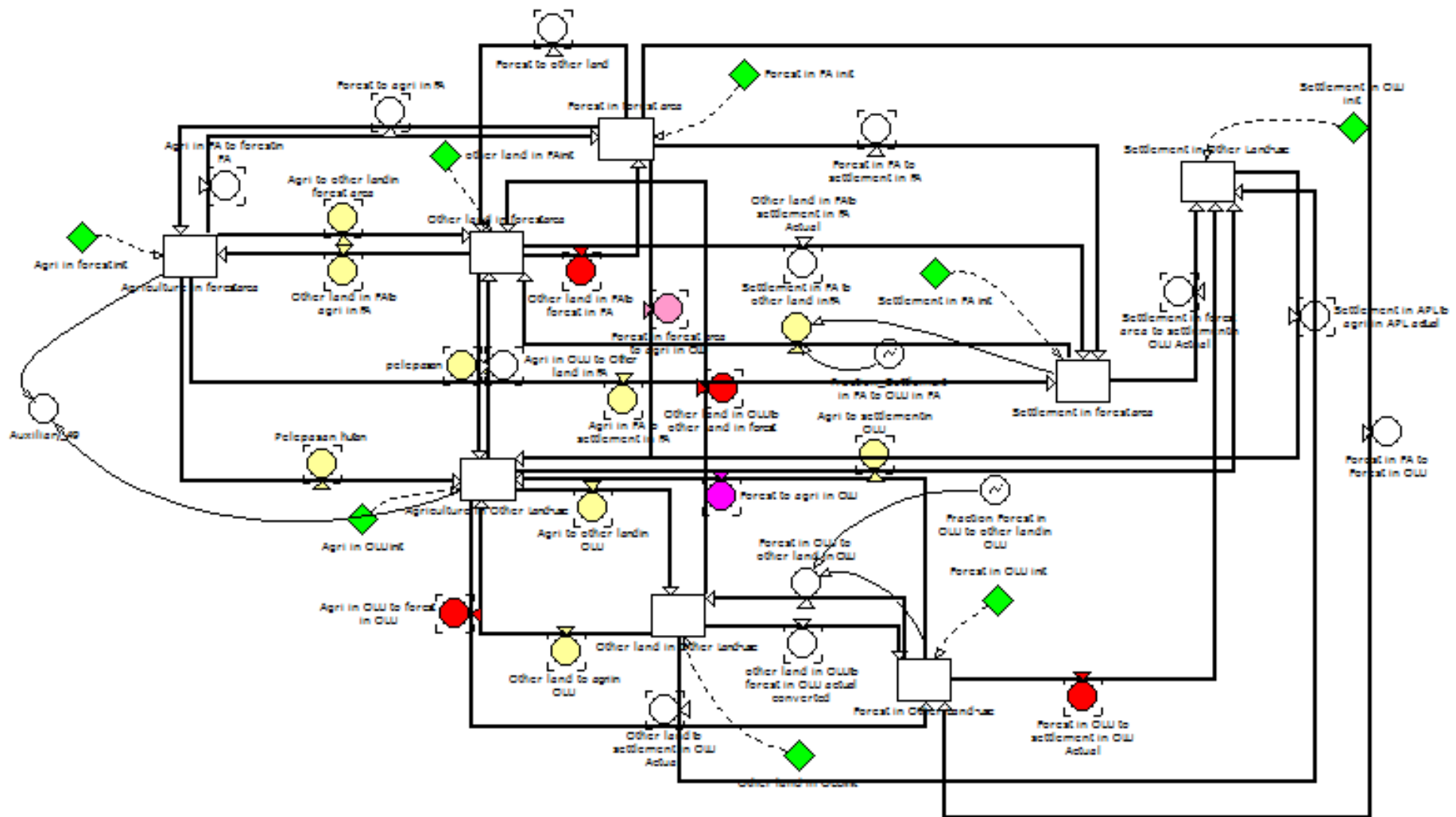
## Steps to Estimate the Baseline from the Land-Based Sector (2)

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6. Determined the drivers of the transition.
7. Connect the model structures from within and other sectors that influence the drivers. → land-based is interdependent to other sectors
8. Peatland model is constructed separately, but still using 9 categories of land cover

**STOCK DIFFERENCE METHOD IS USED TO MEASURE THE EMISSION FOR LAND BASED SECTOR**

## Examples of System Dynamic Modeling Sub-Structure on Forest and Land Cover



# Challenges:

- Data availability and transparency.
- Consistency between different data sets (spatial and tabular)
- Methodology selection process.
- Simulation model complexity.
- Projecting uncertain extreme events (peat fire, etc.).
- Policy coordination with non-forest line agencies causing the drivers of deforestation and forest degradation.
- Maintaining the continuation of the database.
- Awareness and understanding the decision makers.



**Thank you for your attention**

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