Key Messages



Result-based payment requires reliable estimate of forest carbon stock change.

REDD+ includes not only deforestation but also forest degradation, conservation, sustainable management and enhancement.

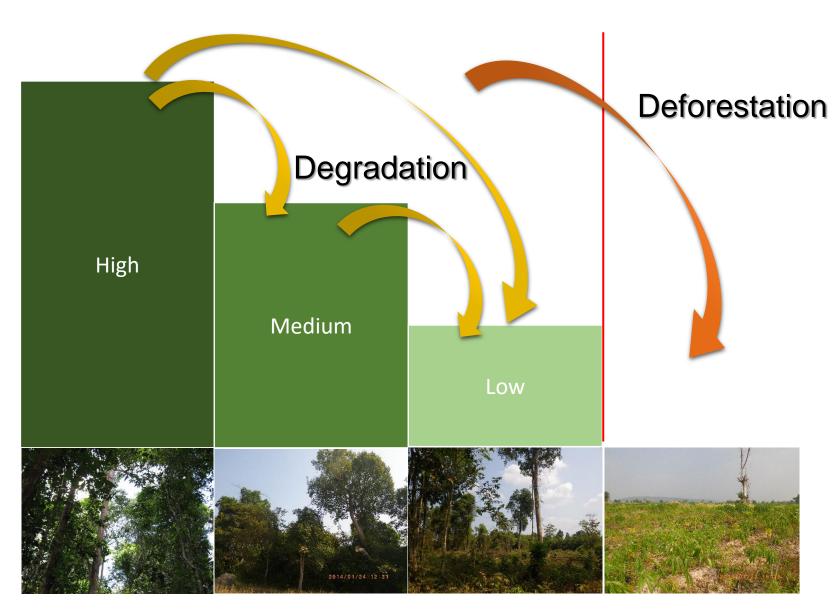
How to obtain emission factor (= forest carbon stock per unit area)?

Yasumasa Hirata
Director, REDD Research and Development Center
Forestry and Forest Products Research Institute



Idea of forest degradation

Carbon stock per unit area

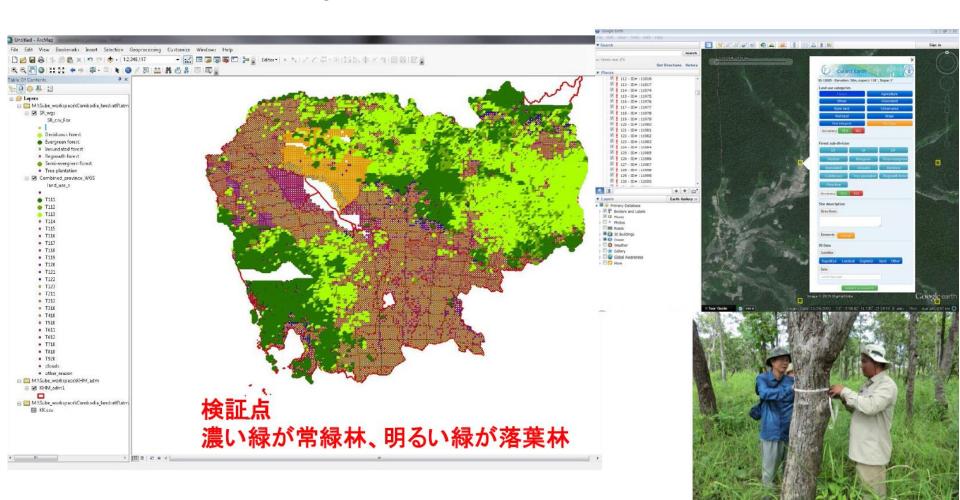




Two-step GT data collection

1st step: Interpretation of Google Earth Image at 3km-interval grids on screen

2nd step: Field confirmation of land cover type and biomass estimation with plotless sampling

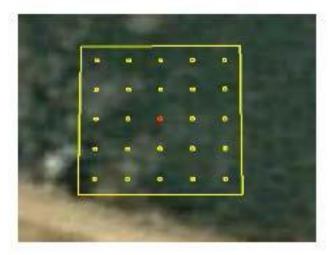




Correction of Interpretation



Grassland 1/9/2014



Shrub land No date

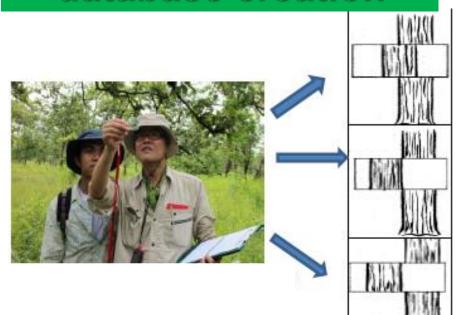


Crop land 9/3/2015



Crop land 7/3/2015

Plotless sampling and database creation









N	Location	Date	Plot ID	UTM				Interpretation			Photos Direction				
				х	Υ	Lon	Lat	Google Earth	Field Chick	Altitude	North	East	South	West	Google Earth
1	Pursat	22-12-2015	16841	423000	1E+06	.2 ⁰ 30' 34	04 ⁰ 17' 29	Fr	Нс	12m	N	g = =	15	, and the second	
2	Pursat	22-12-2015	16840	419999	1E+06	.2º 30' 34	04 ⁰ 15' 49	Fr	Ws	14m	N	E	S	F	
3	Pursat	22-12-2015	16837	410999	1E+06	20 30, 33	04 ⁰ 10' 51	Ws	Fr	17m	N	E		w	
4	Pursat	23-12-2015	17216	377999	1E+06	.2º 27' 14	03 ⁰ 52' 39	Ws	D	28m	N I I I	E S	s	W	

Conclusion



Executable treatment of degradation is required in reference setting.

Verification of the result is a very important component to obtain reliable result.



