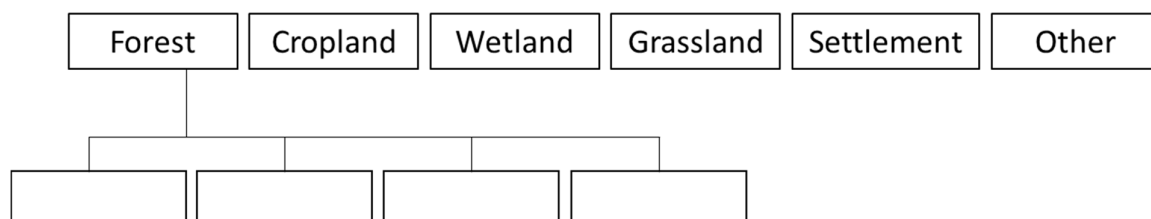


**REDD+ Academy/Bhutan**  
**Module 5 (National Forest Monitoring Systems)**  
**Group Exercise – Instructions**

Look at the land use changes (PowerPoint slide) that took place between 2010 and 2015 in the Federal Autonomous Kingdom of Elbonia (FAKE).

The total area of FAKE is 6 million hectares: each photo represents 1 million hectares. Use your imagination and conduct the next steps to arrive at a national GHG-I for 2010 and 2015 for FAKE.

1. Classify the land and forest sub-types. The six IPCC categories are shown below – fill in the boxes for forest sub-categories. Take about 10 minutes for this.



2. Identify the key REDD+ activities. Take about 5 minutes for this.

Reducing emissions from deforestation	
Reducing emissions from forest degradation	
Conservation of forest carbon stocks	
Sustainable management of forests	
Enhancement of forest carbon stocks	

3. Assess the changes between land use categories using this table. Take about 10 minutes for this

	2015					
2010	Forest Land*	Cropland	Wetland	Grassland	Settlement	Other
Forest Land*						
Cropland						
Wetland						
Grassland						
Settlement						
Other						

4. Assess changes in forest land sub-categories using this table. Take about 10 minutes for this.

2010	2015			
	Primary montane forest	Degraded montane forest	Primary mangrove forest	Degraded mangrove forest
Primary montane forest				
Degraded montane forest				
Primary mangrove forest				
Degraded mangrove forest				

5. Forest C stocks (explain why you have assigned a certain carbon stock). A table of some above-ground carbon stocks is shown below. Take about 10 minutes for this.

Land use type	C-stocks	Source
Rich tropical upland forest	200 tonnes/ha	FAKE NFI
Poor tropical forest	80 tonnes/ha	FAKE NFI
Montane sub-tropical forest	110 tonnes/ha	Default value
Mangrove forest	50 tonnes/ha	Default value
Cleared/deforested land	0 tonnes/ha	Default value
Rice paddy/cropland	0 tonnes/ha	Default value

6. Compile FAKE's LULUCF GHG-I for 2015, using the following table. Conversion factor for change in C-stocks to emissions in tCO<sub>2</sub>e/year is 0.73. Take about 30 minutes for this.

Land cover change	Sub-categories	Area change (AD)	Change in C-stocks (EF)	Emissions (tCO <sub>2</sub> e/year)
Forest-Forest	Rich forest → rich forest			
	Rich forest → poor forest			
	Poor forest → rich forest			
Forest-settlement	Rich forest → settlement			
	Poor forest → settlement			
Total				