

UN-REDPAO's Open Foris Initiative





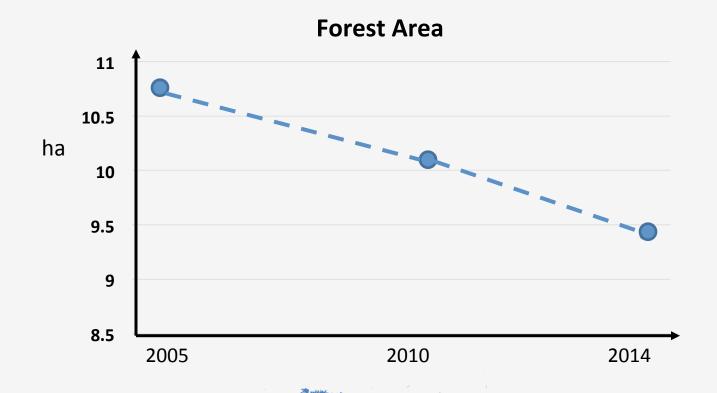


- Context: Growing demand for obtaining accurate data and information on the state of forest resources...
- **Objective**: Develop and support open source, freely available software tools empowering countries and institutions in forest monitoring, assessment and reporting
- Main FAO projects involved so far:
 - Forest Monitoring and Assessment (NFMA)
 - BMU-ICI FAO-INPE REDD+ Project
 - UN-REDD Partner countries (Asia/Pacific): PNG, Bhutan, Mongolia, Lao PDR, Philippines
 - Global Forest Resources Assessment (FRA)

Cation for Initial REL Preparation



Scenario 1: Only map data for 3 years (2005, 2010, 2014)



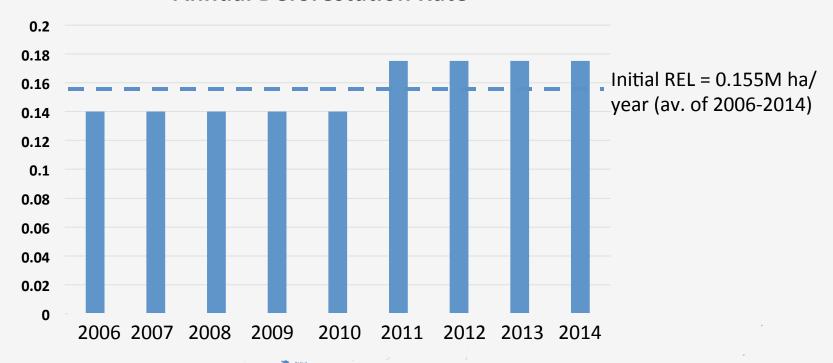
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Scenario 1: Only map data for 3 years (2005, 2010, 2014)

Annual Deforestation Rate

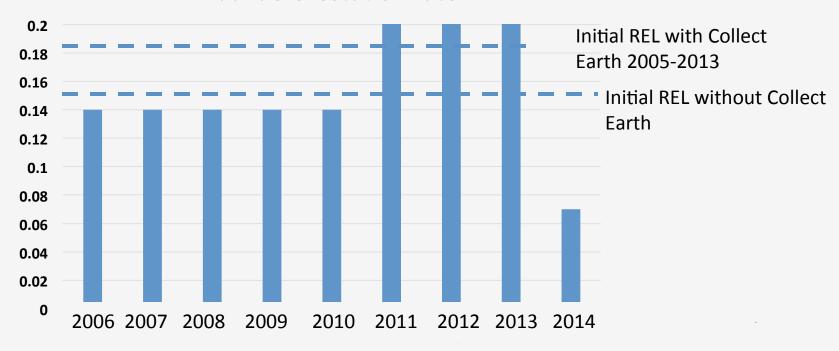


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Scenario 2: Map data supplemented with Collect Earth data

Annual deforestation rate



The properties of the last section for Initial REL Preparation



RBP Comparison with and without Collect Earth data

Assume:

- Country submits a BUR in 2017 with a Technical Annex showing an average deforestation rate for 2014-2017 of 0.08Mha/year
- Default carbon density = 100t/ha
- Carbon price = \$3/t

RBP without Collect Earth will be 4*(0.155-0.08M)*100t/ha*\$3/t = \$9M

RBP with Collect Earth will be 0.07+(4*(0.179-0.08M))*100t/ha*\$3/t) = \$14M



UN-REDen Foris Collect Earth:







Methodological Basis

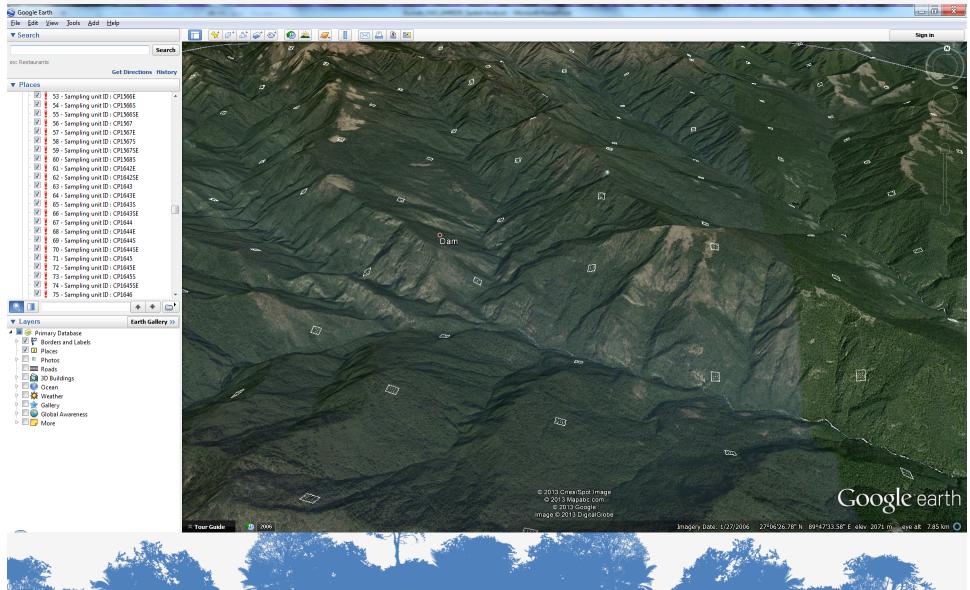
- Probability sampling: every unit in the population has a chance (>0) of being selected in the sample and this probability can be accurately determined
 - Can produce unbiased estimates of population totals
- Point sampling: involves selecting specific "points" at which to collect specific data: information about those points can then be used to say something about a phenomena over a broader area
- Visual interpretation:
 - Critical consideration: consistency of interpretation
- IPCC compatibility: Activity Data results (LUC matrices) directly exportable into GHG inventory reporting tables
 - Land <u>use</u>: refers to the description of the socio-economic function of the land

Sampling approach: PROPER FORIS Collect Earth









Sampling approach: P R Open Foris Collect Earth







Step 1: Use the most recent high-resolution satellite images to inspect sample plots (which most usefully are the same as the NFI plots)

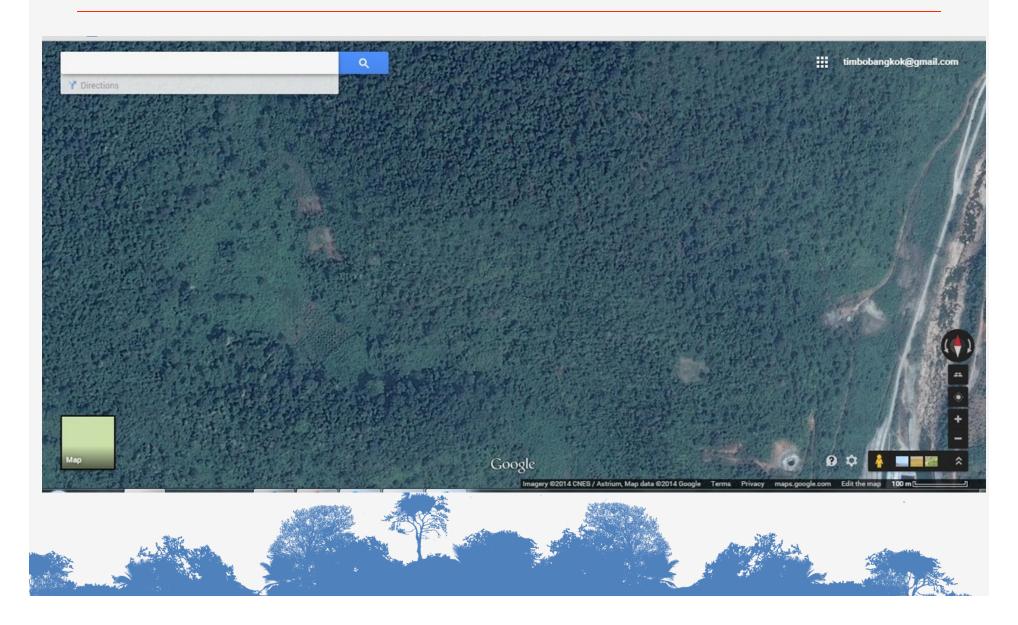
Step 2: For plots which are forest, it can be assumed that they were forest at the start of the time sequence. E.g., if forest in 2013, it was forest in 2010

Step 3: For plots that are non-forest in 2013, the customized software opens a window with medium resolution Landsat imagery. This can be inspected annually to determine when forest became non-forest

UN-RECAMPLE for Cambodia: Bokor



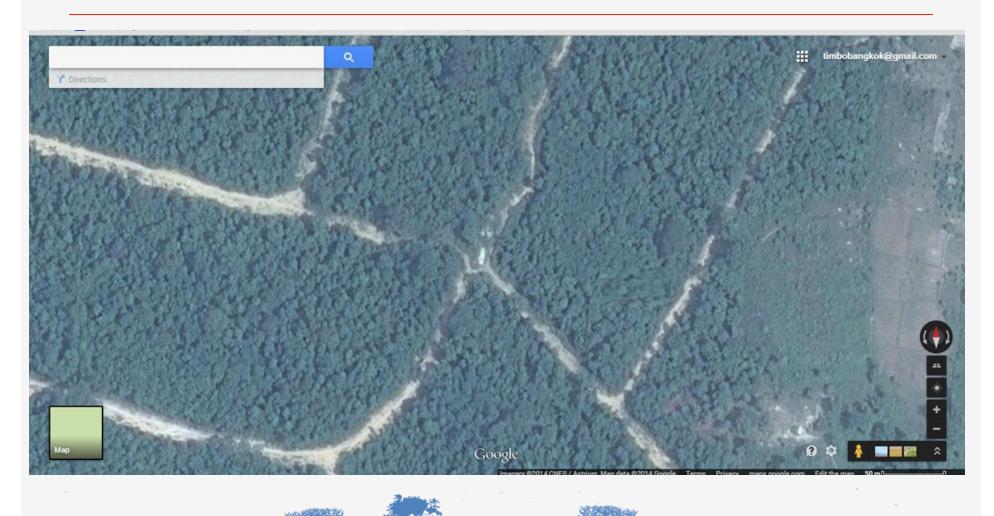




UN-Example for Cambodia: Ream Procession Cam



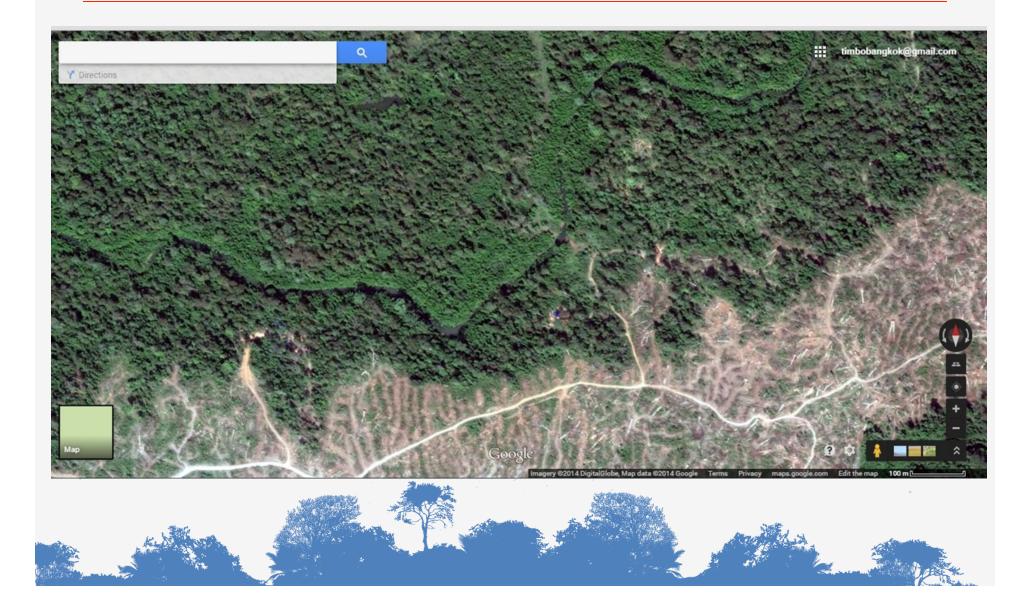


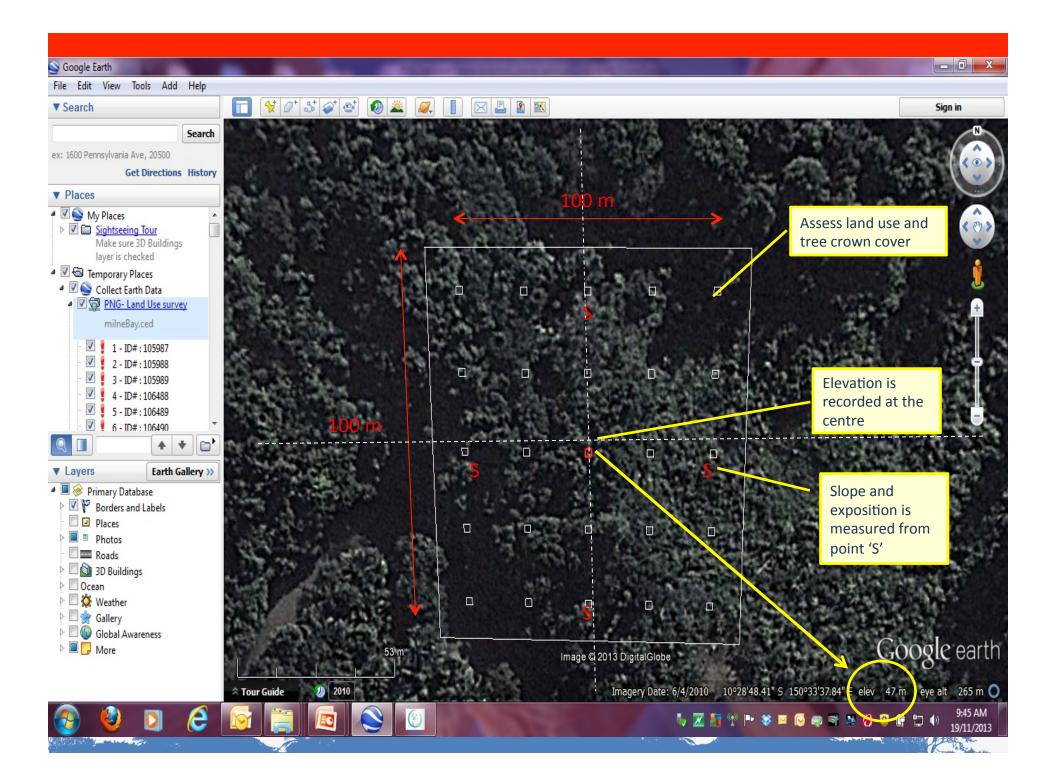


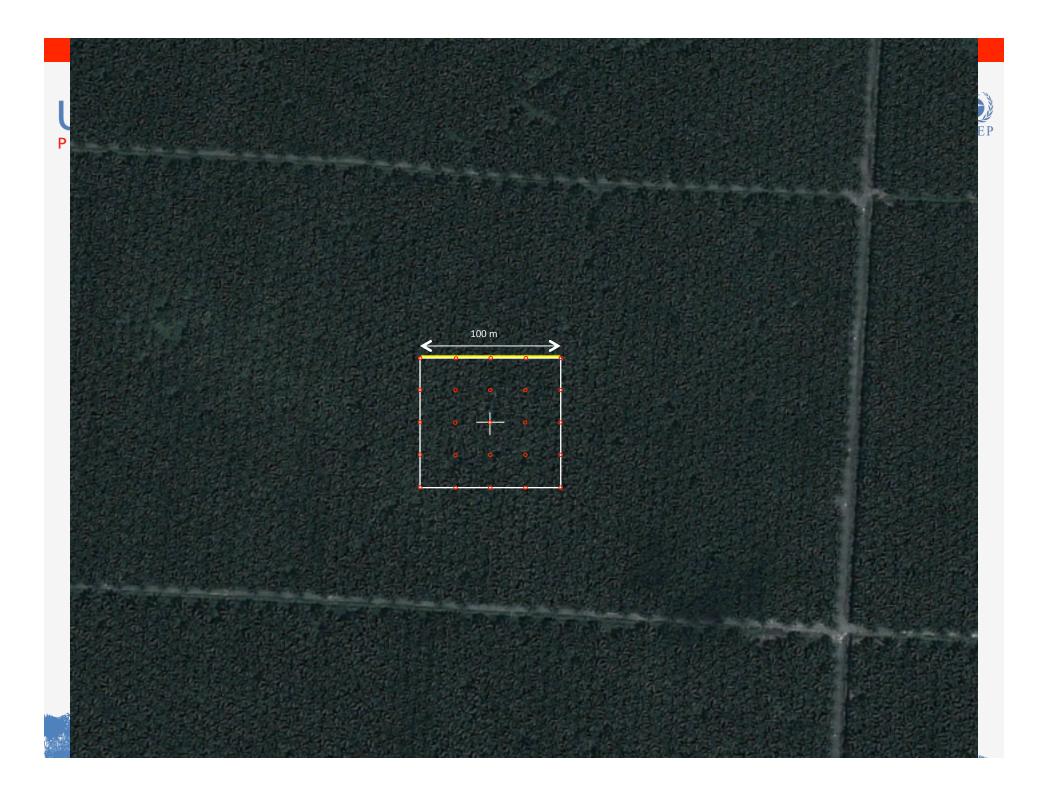
UN-REPample for Cambodia: Snow Line Combodia Com



















Results-based payment for REDD+

UN-REDD PROGRAMME

UNFCCC on results-based finance for REDD+







Recognizing the **key role** that the **Green Climate Fund** will play in channeling financial resources, Decision 9/CP.19 reaffirms that results-based finance provided to developing countries for the full implementation of REDD+, that is new, additional and predictable may come from a

additional and predictable may come from a variety of sources, **public** and **private**, **bilateral** and **multilateral**, including **alternative sources**, as referred to in decision 2/CP.17, paragraph 65;





What are the sources currently (or shortly) available?







- Green Climate Fund uses the Warsaw Framework
- Bilateral initiatives such as
 - Norway bilateral agreements with policy targets and emission reductions
 - Germany REDD+ Early Movers verified emission reductions from deforestation achieved in the past (supposes FREL/REL and MRV capacity already)
- Multilateral initiatives (FCPF Carbon Fund, BioCarbon Fund) – own methodological framework
- Voluntary markets own methodological frameworks
- Compliance markets own methodological frameworks



Non Warsaw Framework RBF Options







Source	Advantages	Disadvantages
Voluntary markets	Already exists; funding available	Very expensive and time consuming; difficult to sell credits; small scale
WFR	Simple, flexible, recognized by all donors, will be at scale	Just setting up
Bilateral donors	Flexible, can be at scale	No obvious donors (no more from Norway)
FCPF C-Fund	Already exists; limited funding available	Complex and time consuming; no more countries
REM	Already exists	Few countries involved (mainly LAC); must have already reduced emissions