



April Salumei REDD Project

Progress Towards VCS Validation/Verification

Dr Carly Green



Presentation Outline

- Introduction to EAS
- VCS Project Milestones
- Project Scope and Boundaries
- Fieldwork
- Deforestation/Degradation Modelling and GHG Calculations
- Documentation Development
- Validation/Verification



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INTRODUCTION TO EAS



Introduction to EAS

- Environmental Accounting Services (EAS) established in 2008
- Boutique consultancy providing strategic and technical consulting services for the Agriculture, Forestry and Other Land Use (AFOLU) sector
- Five full time staff plus five associates active in more than ten countries



EAS Experience

- More than 2000 hours of lead auditing against the Verified Carbon Standard and Climate Community and Biodiversity standard



- Successfully completed more than 50 carbon related projects in the AFOLU sector



Dr Carly Green

- Founder of EAS
- VCE independent expert
 - Improved Forest Management
 - Agriculture Land Management
 - Peatland Rewetting and Conservation
 - Reduced Emissions from deforestation and forest degradation (application pending)



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VCS PROJECT MILESTONES



VCS Milestones

Key	Item	Completion in %
Milestone 1	Project Scope and Boundaries	100%
Milestone 2	Fieldwork and Biomass Estimates	100%
Milestone 3	Project Modelling and GHG Calculations	50%
Milestone 4	Monitoring Report	80%
Milestone 5	Finalise PD	20%
Milestone 6	Validation	10%
Milestone 7	Registration / Sale	

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PROJECT SCOPE AND BOUNDARIES



Project Scope

- Aims to avoid deforestation and degradation of primary forest of cultural and biological importance
- Will address education and health through the alleviation of poverty



Project Scope

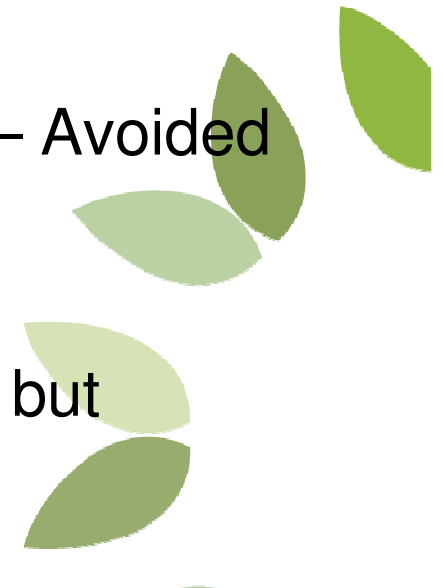
Expected results

- CCB validation approved
- VCS validation / verification under development
- Carbon credits used to expand education and health services, and support sustainable enterprise development in the project region



Project Scope

- Improved Forest Management (IFM) – Logged to Protected Forest
- Reduced Emissions from Deforestation (RED) – logging infrastructure and illegal land use conversion post logging
- Peatland Rewetting and Conservation (PRC) – Avoided conversion of Peatlands
- Three separate VCS methodologies (complex but complete accounting of activities)



Project Challenges

- Discovery of peat soils in the project area lead to variation of project boundary
- Persistent cloud cover in the project area and the leakage belt lead to approximately 1000 hectares (0.3% of the area) being excluded
- Size of the reference region lead to significant remote sensing requirements
- VCS methodology accounting lead to the need to separate REDD and IFM projects to cover the baseline activities completely



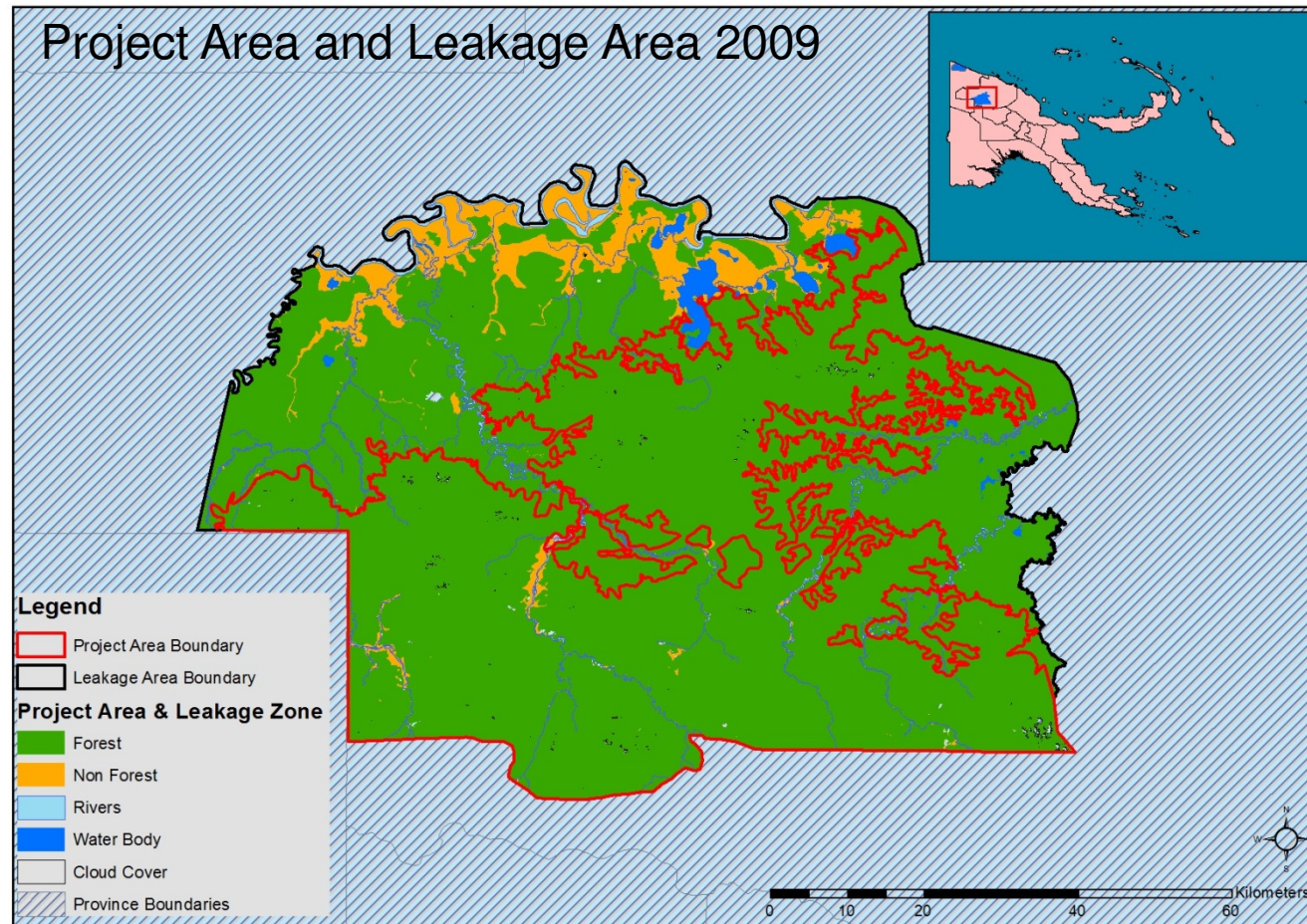
Project Boundaries

- Project boundary – 366,000ha
- Leakage belt – 277,000 ha
- Reference Region – 1,900,000 ha

- It is **LARGE!**



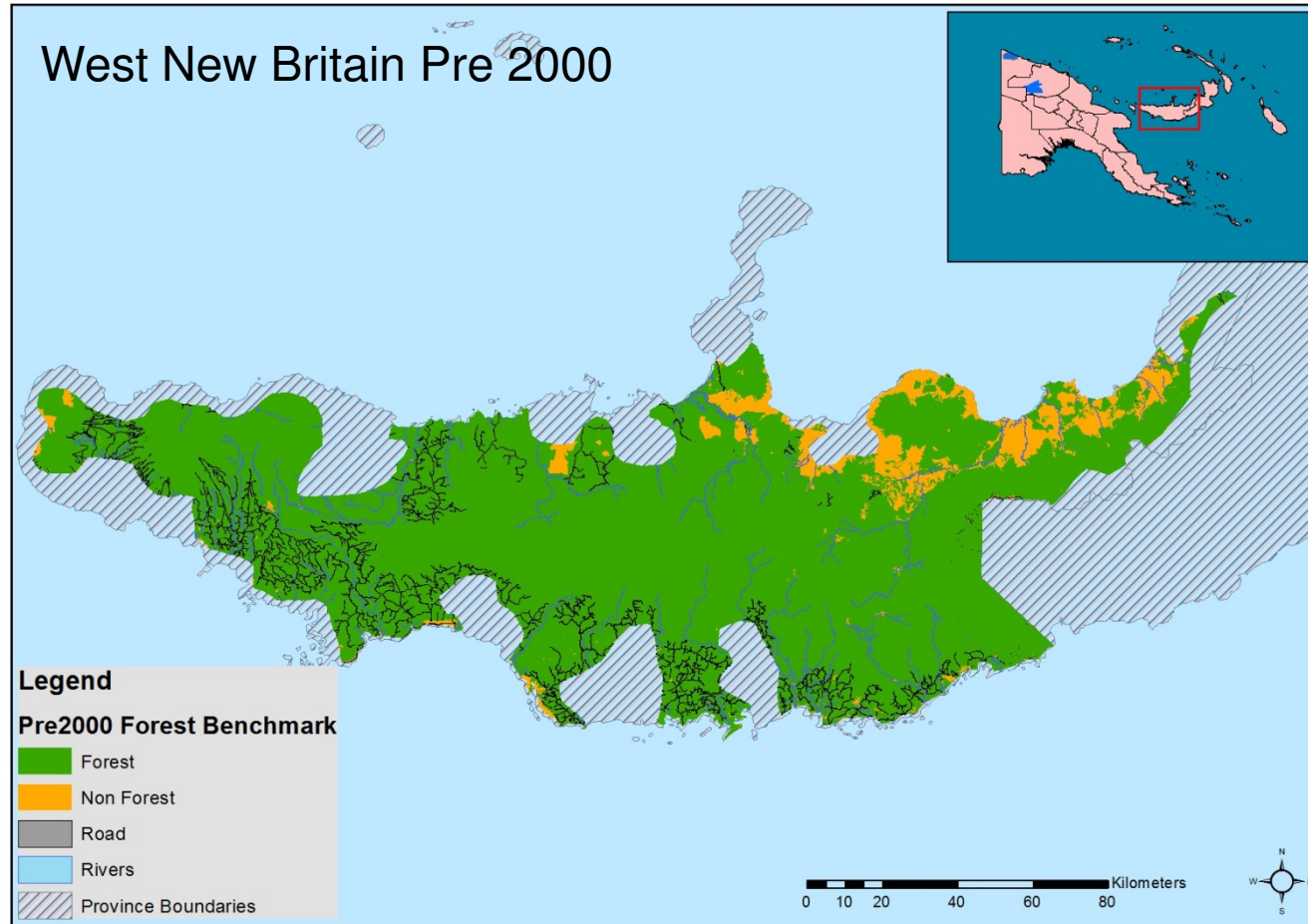
April Salumei Project Boundary



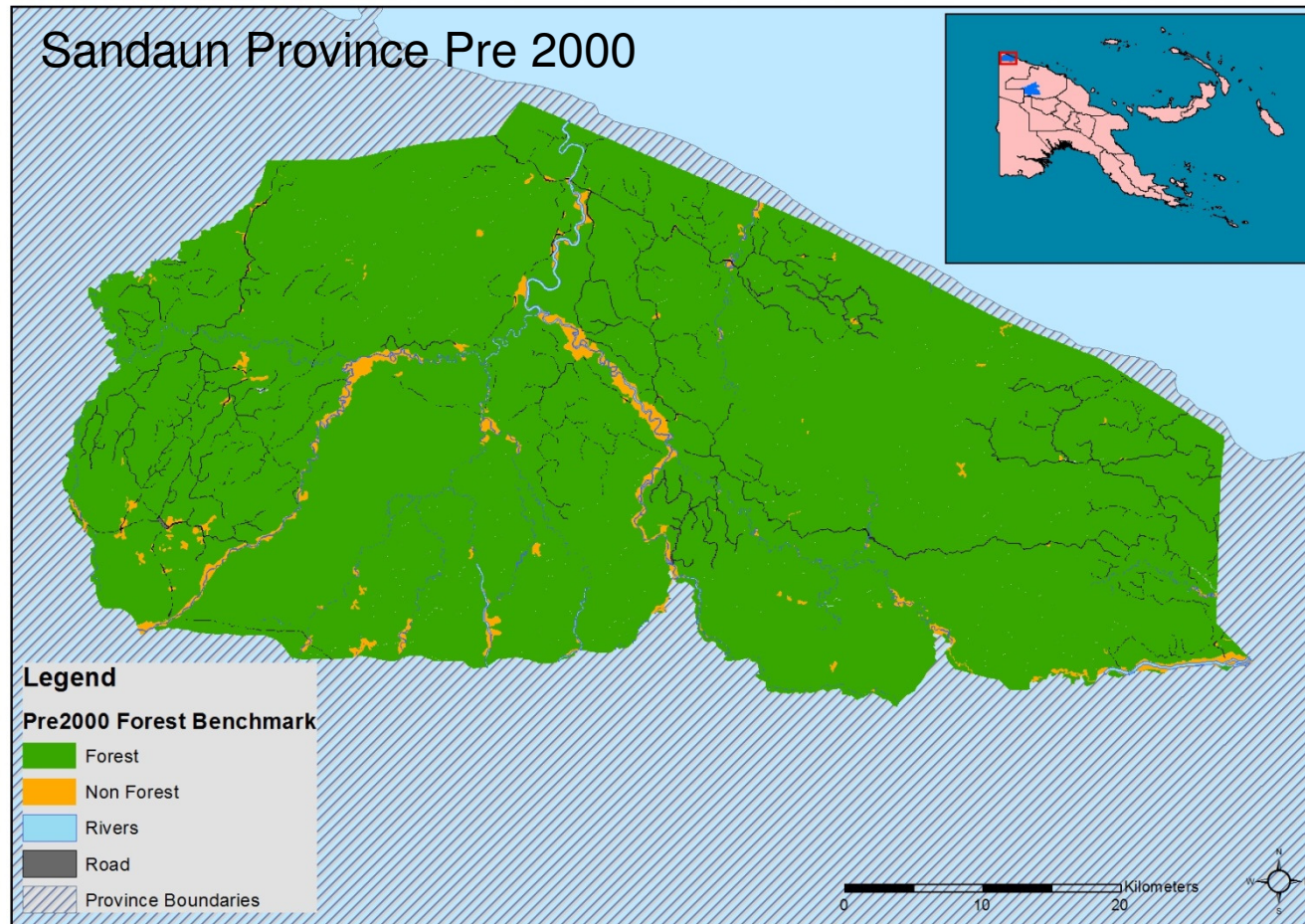
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Reference Region



Reference Region



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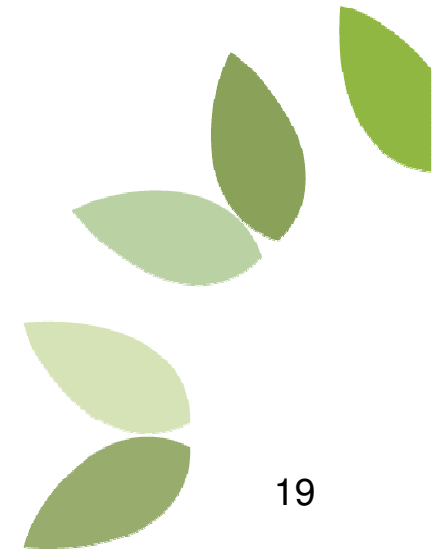
FIELDWORK



Summary

Field work was conducted in May/June 2012:

- More than 20 plot were established and measured in three project areas
- Identified more than 100 tree species
- Diameter and height of all trees in a 20x20m plot were measured
- Litter and non-tree aboveground biomass



Fieldwork



Fieldwork



Fieldwork

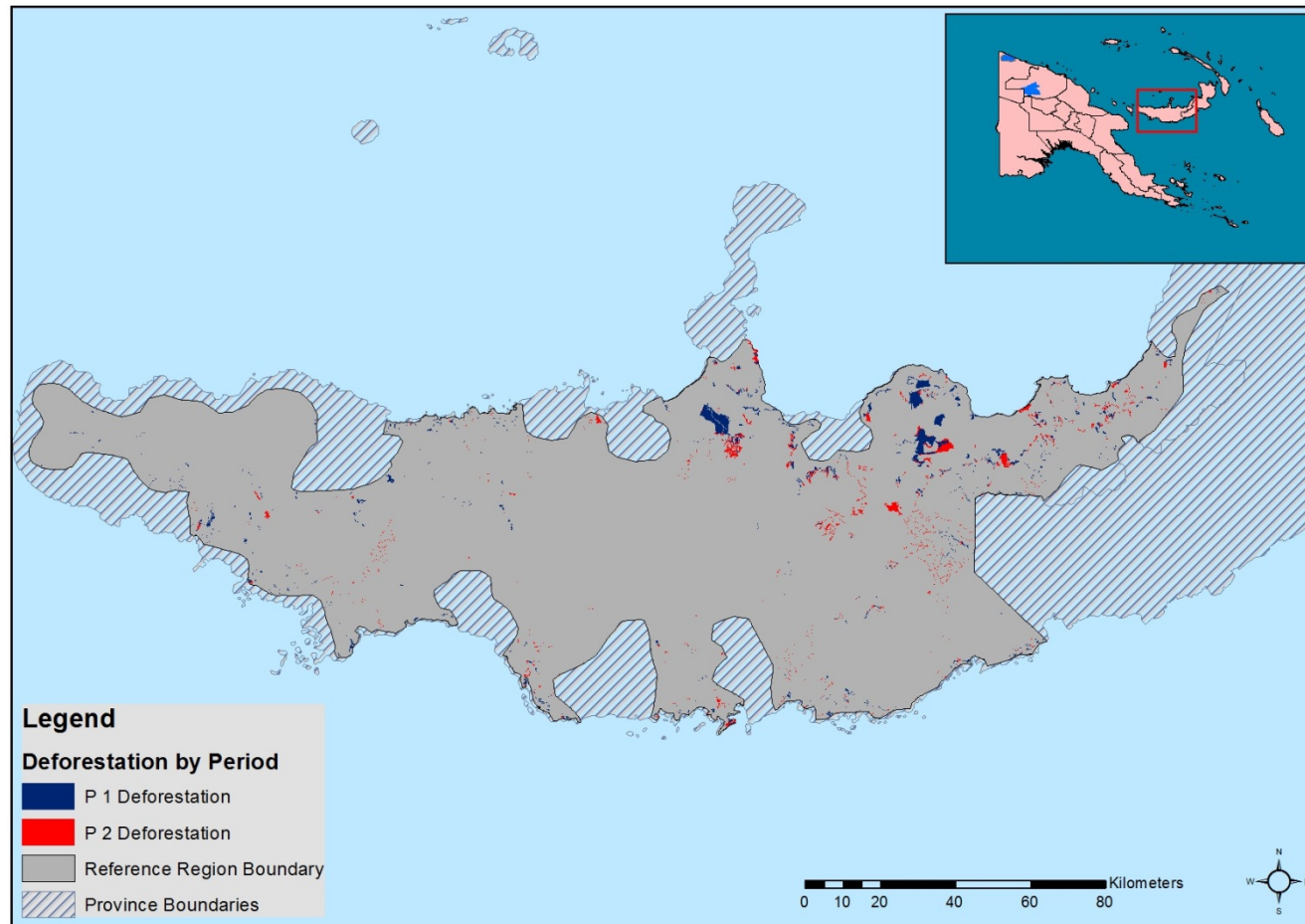


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PROJECT MODELLING AND GHG CALCULATIONS



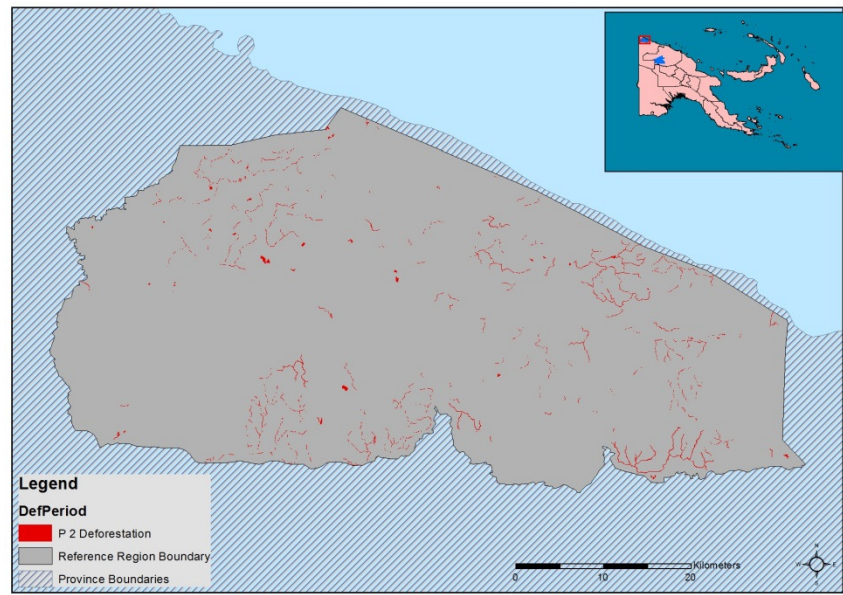
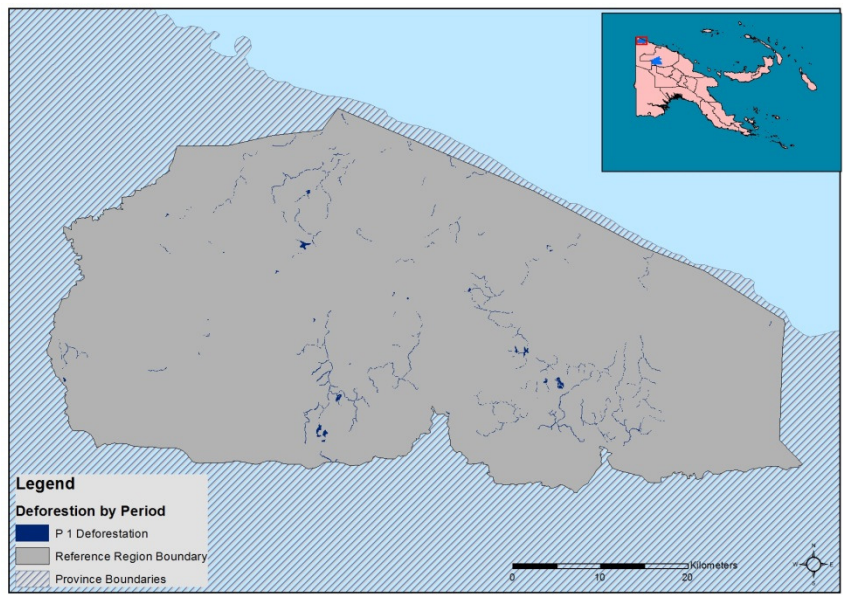
Deforestation Map P1 and P2



Sandaun Province

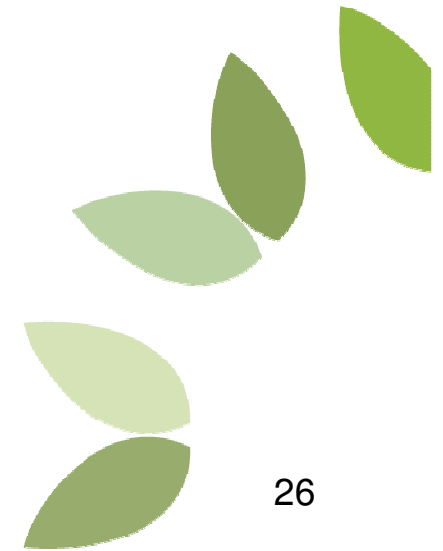
Deforestation Map Period 1

Deforestation Map Period 2



Deforestation 2000 - 2009

- Deforestation in the Reference Region
 - 2.26% between 2000 - 2009
 - Equivalent to 0.25% per year
- Deforestation in the Project Area
 - 0.12% between 2000 – 2009
 - Equivalent to 0.013% per year

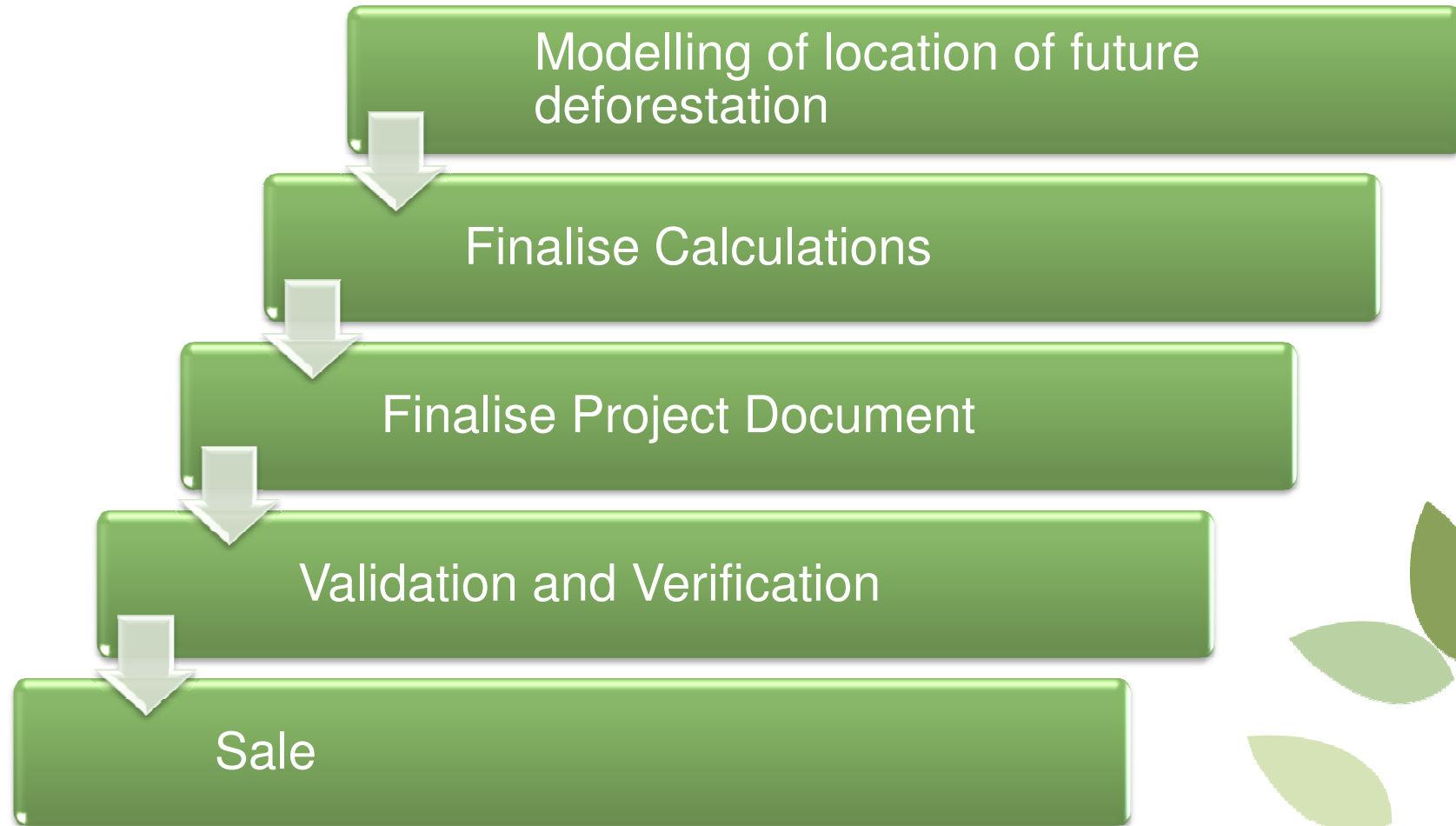


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NEXT DEVELOPMENTAL STEPS

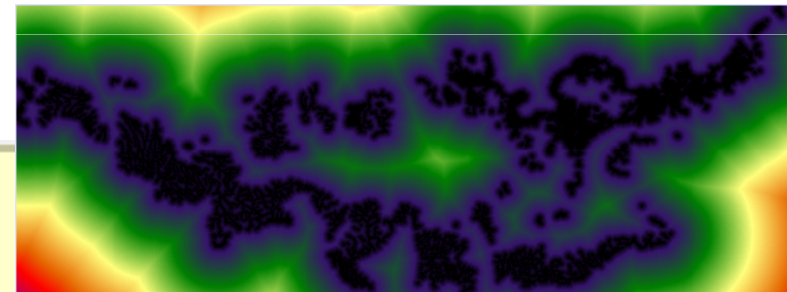
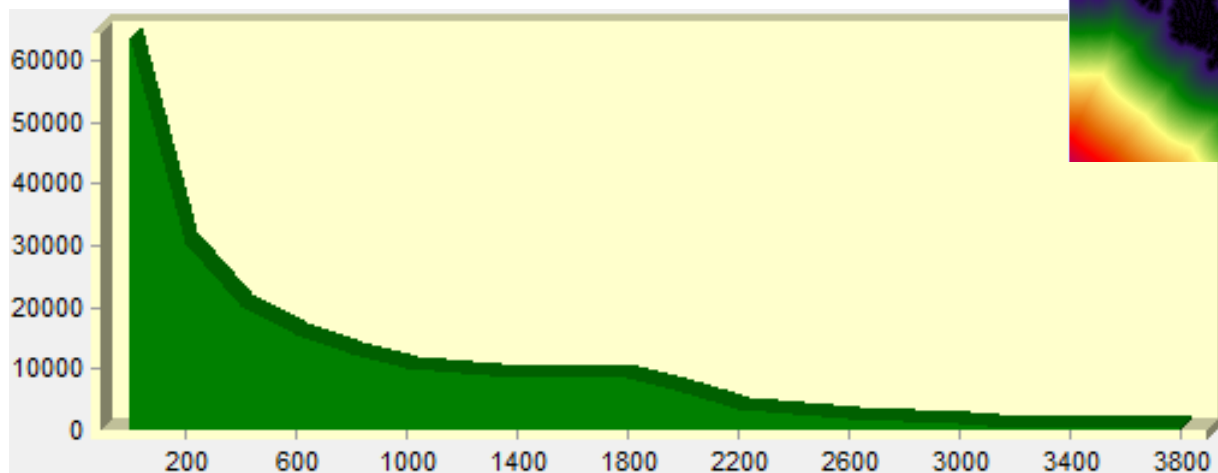


Next Steps



Testing of Deforestation Drivers

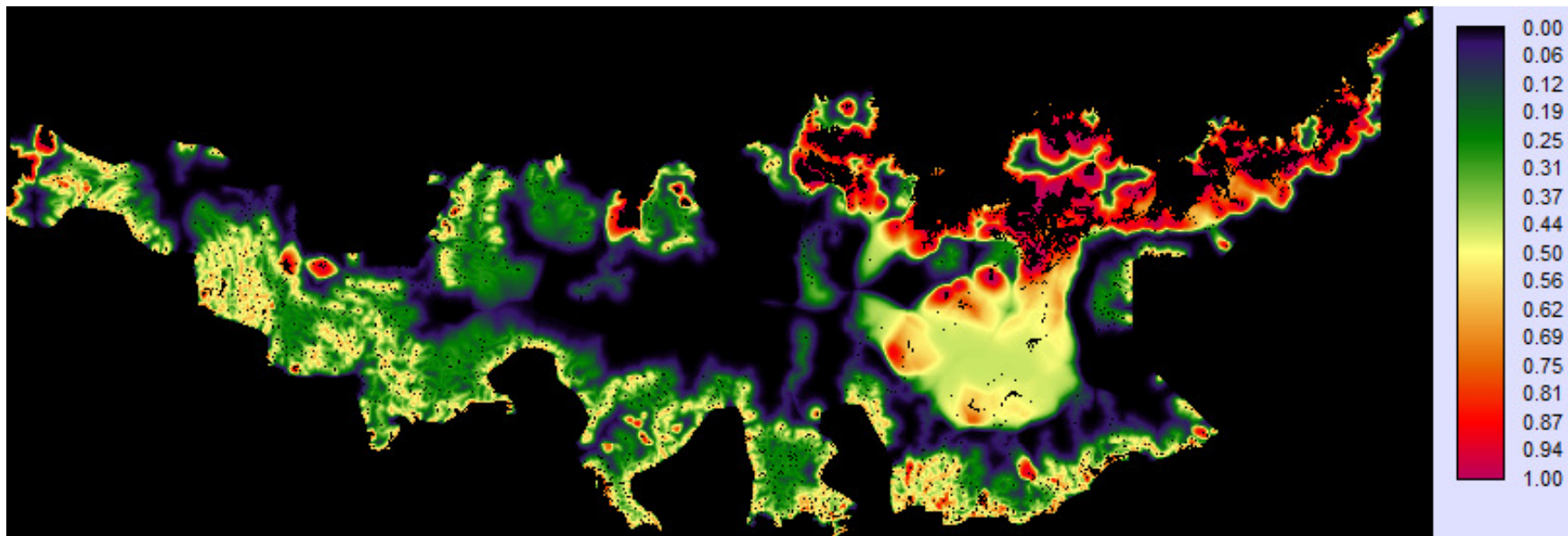
1. Distance from transition to forest edge (pre2000 open areas)
 - Relatively strong explanatory power
 - Areas close to open areas are more likely to be deforested



Cover Class :	Cramer's V :
Overall V	0.2740
Water	0.4736
Non_forest	0.4657
Forest	0.0000

Spatial Model Scenarios: Risk Map

- Risk map describes the modelled potential of each pixel to transition from forest to non-forest.
 - Value close to zero is low risk, value close to one is high risk

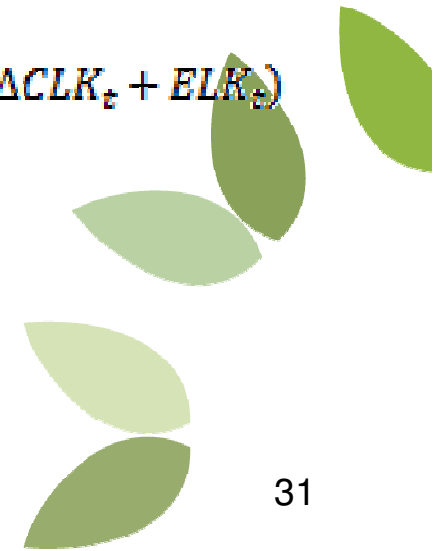


GHG Calculations

- Developed project specific calculation tool in Excel

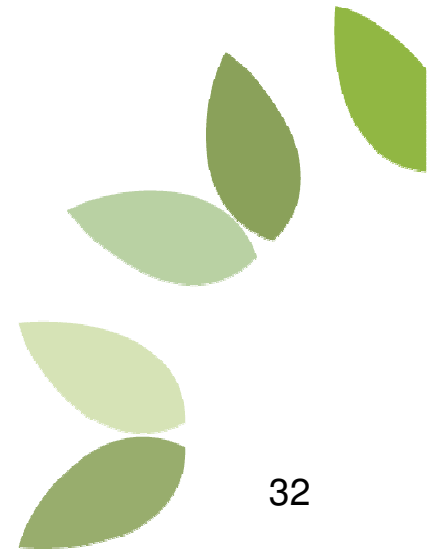
$$\Delta CBSLPA_t = \sum_{icl=1}^{icl} ABSLPA_{icl,t} * Ctot_{icl,t} - \sum_{fcl}^{fcl} ABSLPA_{fcl,t} * Ctot_{fcl,t}$$

$$\Delta REDD_t = (\Delta CBSLPA_t + EBBBSLPA_t) - (\Delta CPSPA_t + EBBPSPA_t) - (\Delta CLK_t + ELK_t)$$



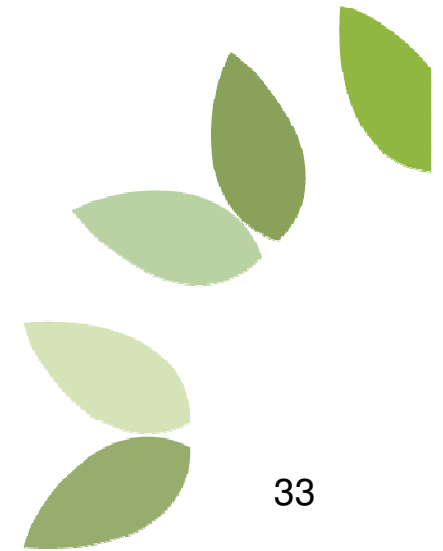
Finalise Project Documentation

- Project document will exceed 400 pages
 - Current estimate to have more than 20 supporting documents



Validation/Verification

- Project has engaged Rainforest Alliance as the project auditor
 - Excellent reputation
 - 'local' based in Indonesia
- Process
 - Pre-validation (desk audit)
 - Field trip (7-10 days)
 - Issuance of validation report
 - Process typically takes 3 – 6 months



Registration and Sale

- Register the project on VCS approved registry
- Good demand for voluntary credits, particularly forestry related
- Voluntary credits are currently selling at higher prices than mandatory credits

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**NESTED AND
JURISDICTIONAL REDD**



Why nested REDD

- Allows ongoing recognition of 'projects' in the transition to national or sub-national based REDD
- Why do we want ongoing recognition of projects?
 - Utilizes the 'early action' REDD experience of projects
 - Allows for more site-specific tailoring of REDD interventions
 - Allows for more direct distribution of project benefits
 - More attractive to private sector investment (due to greater control)
- Why do we want to transition to sub-national or national based REDD?
 - Increases emissions reduction potential (due to larger area)
 - Allows for full accounting for leakage
 - Ensures credits 'add up' across the entire jurisdiction



VCS jurisdictional and nested REDD initiative

Objectives:

- To develop guidance and criteria for jurisdictional REDD programs to enable crediting at multiple scales
- To create a pathway for projects to “nest” within larger scale jurisdictional programs (both sub-national and national)
- To develop a framework that can serve multiple markets (voluntary, bilateral, pre-compliance, potentially compliance)
- May also inform the UNFCCC framework

Successful completion is close



17/10/2012

