

One methodology for No Deforestation -

HCS Convergence (HCSA and HCS+), and implications for RSPO & New Plantings GHG Assessments

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Outline

- + HCS Approach and HCS+
- Announcing HCS Convergence
- Key element of the converged methodology
- Implications for RSPO
- Summary and Next Steps

HCS Approach and HCS Science Study

HCS Approach:

- Began 2011 to practically implement 'No Deforestation' commitments
- Remote sensing and field plots for vegetation stratification, forest patch
 Decision Tree for conservation and land use planning
- Integrates with FPIC, Participatory mapping, HCV, peat protection

HCS+

- Began 2014 science study aimed at reducing GHG emissions from PO
- LiDAR mapping AGC, organic soils, carbon neutrality, social requirements, multi-stakeholder land use planning



Announcing HCS Convergence

- A single HCS methodology has been agreed!
- Combines HCS Approach and HCS+
- Key elements: HCS thresholds via vegetation stratification, use of LiDAR, decision tree for 'Young Regenerating Forest' patches, role of carbon, & robust social requirements
- Working groups to resolve outstanding issues: application of HCS to smallholders & High Forest Cover landscapes, protection of HCS forest
- Ongoing discussion on functional and governance integration with HCV Resource Network



Finalising the converged HCS methodology via Toolkit v2

- HCSA Toolkit launched in April 2015
- Designed as a practitioners manual on the methodology
- Currently under review, including addressing the convergence elements
- Further trials, then release v2 in early 2017
- Science Advisory Committee including HCS+ scientists

The HCS Approach Toolkit

The High Carbon Stock
Approach: No Deforestation
in Practice

Version 1.0: March 2015

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HCS Convergence and RSPO

- Practical methodology to define and identify High Carbon Stock forest areas
- Can be incorporated into P&C revision Principle 7
- Already referred to in RSPO Next
- Can significantly strengthen RSPO GHG Assessment Procedure for New Plantings – esp. Chapter 3 where HCS assessments can replace AGC default values, and Chapter 4 with carbon estimations and land development options

Stratify vegetation for land cover classes – remote sensing



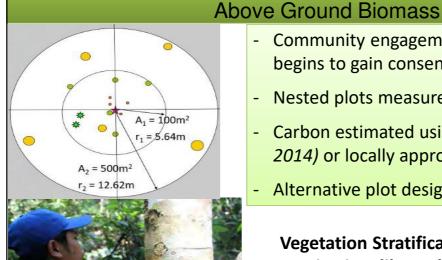


A combined unsupervised and supervised analysis of optical data using visual attributes to provisionally stratify vegetation into 6 classes



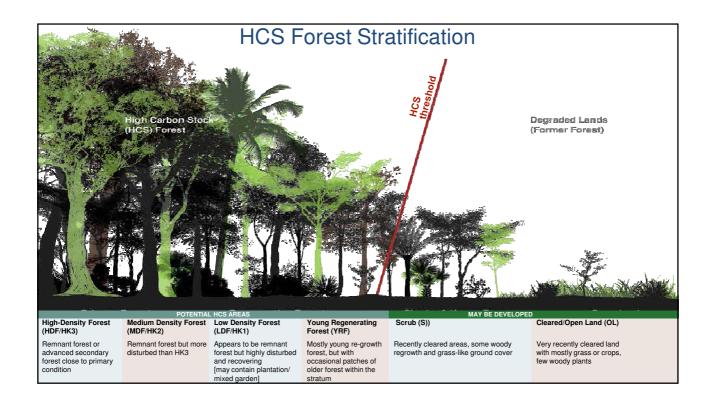
Or, alternatively LiDAR to determine vegetation height

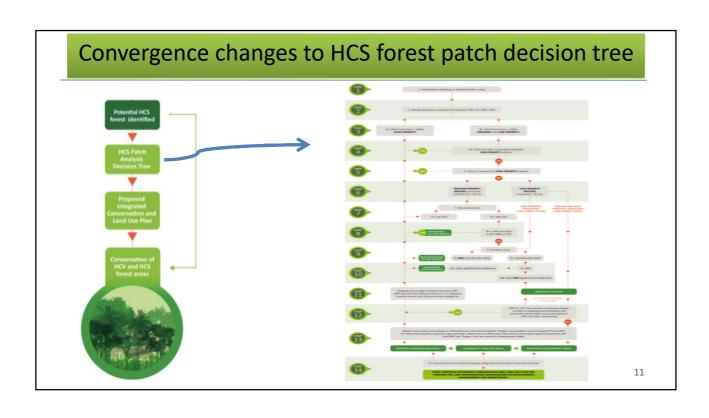
Field plots to gather species, height and DBH data to determine

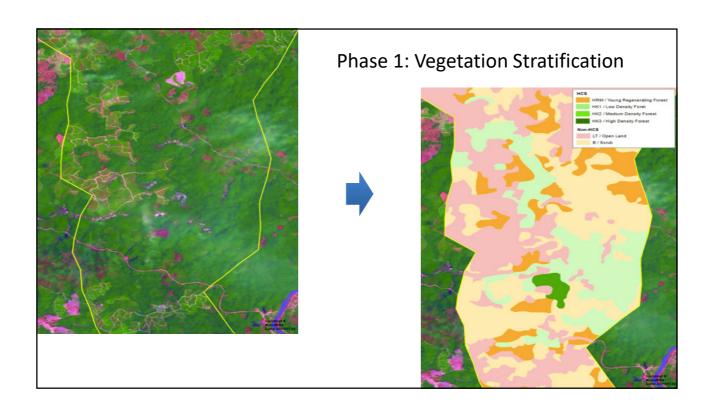


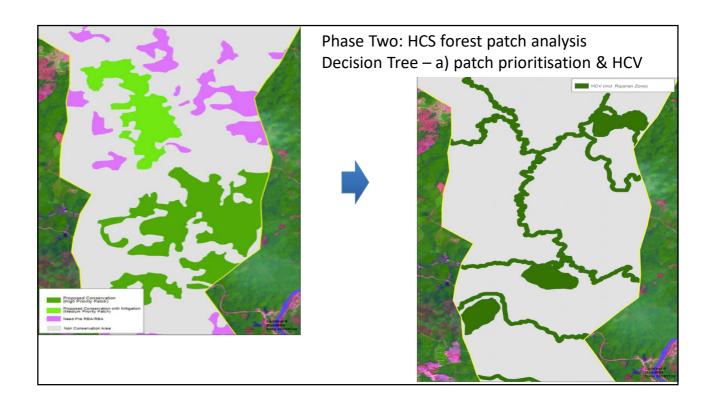
- Community engagement and FPIC process begins to gain consent
- Nested plots measure AGB in trees >5cm DBH
- Carbon estimated using global (Chave etal 2014) or locally appropriate allometric
- Alternative plot designs possible

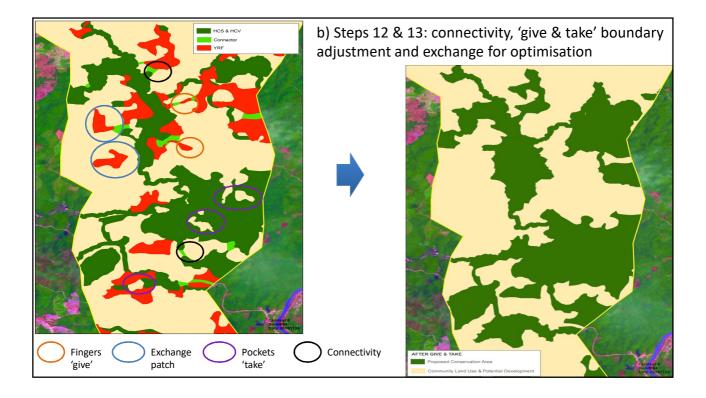
Vegetation Stratification from remote sensing is calibrated with field plot data to map potential HCS forest areas











Summary and Next Steps

- HCS convergence is a huge step forward for implementing No Deforestation – only one methodology
- Can help RSPO by clarifying and supporting parts of Principle 7 and GHG Assessment Procedure for NP
- Ongoing governance of the HCS methodology by HCSA Steering Group - multi-stakeholder initiative
- Continued development of HCS for small farmers, in high forest cover regions, and forest conservation mechanisms
- Integration discussions with HCV Resource Network



Thank you!

For more information:

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