

HCS+ - A new pathway to sustainable oil palm development



The HCS+ methodology, which significantly extends the HCS Approach, can deliver palm oil development that:

- Ensures carbon neutrality and contributes to protecting essential **non-carbon** forest values
- Better protects human rights and improves welfare
- Is economically viable and acceptable to key stakeholders including governments, local communities and companies undertaking new developments

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The HCS+ methodology covers much more than Carbon



HCS+ takes account of all the elements required to support planning for sustainable development of oil palm, and provides a framework for integrating these key inputs to guide land use decisions

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Sustainable development of oil palm



- **Protects** important forests (HCV, HCS, riparian)
- Achieves **C neutral** development – no C debt, planning flexibility, strengthened protection of set-asides
- **More effective** application of existing standards to protect rights and livelihoods, and **new approaches** to ensure improved welfare for local and regional communities
- Integrates key inputs via **multi-stakeholder planning** – producing a agreed land management plan with clear implementation steps, and well specified social contract
- **Monitoring** for compliance and agreed outcomes, reporting [Monitoring Reporting and Verification (MRV) framework]

Sustainable oil palm development must be based on three pillars:

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- **Pillar 1** – Land conversion must maintain critical ecosystem services
- **Pillar 2** – Oil palm development must deliver socio-economic benefits for local communities
- **Pillar 3** – Oil palm development must be economically viable

These three pillars must be constructed independently, avoiding trade-offs between them ⁵

Mechanisms for achieving Sustainable Oil Palm

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Application of Remote Sensing



The HCS+ methodology is underpinned by advanced remote sensing:

- To map **at high spatial resolution** above-ground carbon using airborne LiDAR
- To map vegetation and land use in the concession and adjacent areas using **high resolution** optical satellite data
- To help map peatlands and other organic soils₇

Thresholds have been set to achieve the following goals:



- **No clearing** of Old-Growth forests, forests regrowing after selective harvesting, and secondary forests where Above-Ground carbon (AGC) is **> 75 t C/ha**
- **No development** on organic soils (peat and other) where the organic layer **exceeds 15 cm in depth**
- **Well planned development** by conversion of some forests with AGC of < 75 t C/ha, provided that development is **C neutral**
- **Focus development on low C lands - currently unused already cleared or degraded lands** where these are suitable for oil palm₈



Above-ground Carbon

First Threshold Applied

AGC (t C/ha)	Description	Zone
~200	Old growth forest	No development
75-125	Logged, degraded forest	
75	30 year secondary forest	
~40	Highly degraded forest	Development (C losses)
~ 30-75	Regenerating forest including early-stage secondary forest	
30	Oil Palm average	
~5-20	Very Young regenerating forest, and Grassland/ scrub	Development (C gains)



Soil

Second threshold **independently** applied if biomass threshold **NOT** exceeded

Emissions from Soil [t C/ha over 25 years]	Zone	
> 75	No development	<ul style="list-style-type: none"> All peat All organic layers > 15 cm deep
0 (mineral soils) – 75 (thin organic soils)	Development (C losses)	
Zero point		
Negative (gain of C)	Development (C gains)	<ul style="list-style-type: none"> Unlikely or small

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Making development C neutral at the concession scale

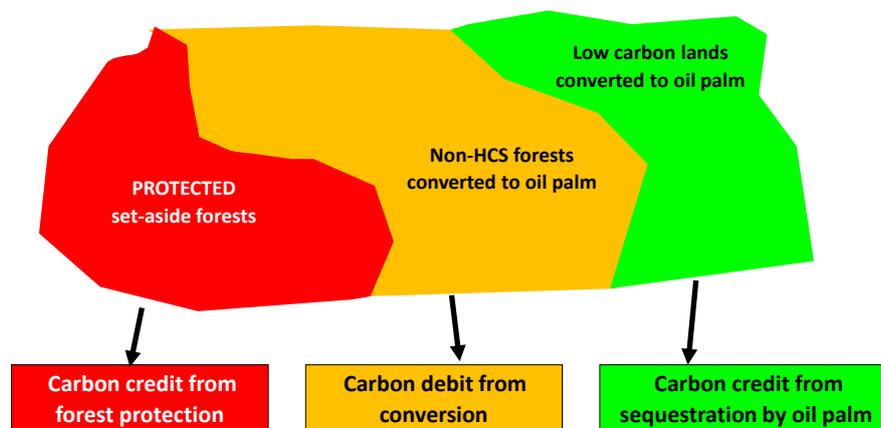
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- Balancing C emissions from forest conversion against C sequestration in **protected set-asides** within the concession [or in other concessions managed by the developer in the same biogeographic region]
- Protected set-aside can be **HCV, HCS or non-HCS** forests
- C sequestration must be both **additional** (resulting from active management) and **verified** (using reliable methods). And is **binding on the developer**, and subject to penalties if obligations not met

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An Approach to Carbon-Neutral Conversion to Oil Palm

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What to do in heavily forested regions?

- Firstly look to **locate** new concessions in lower C landscapes
- The HCS+ thresholds should be applied in all countries/regions. Provided sufficient land is available for development, there are more opportunities in such landscapes to set aside forests to achieve C neutrality
- In regions where most land is HCS, **regional planning by governments** should determine how best to achieve conservation and development goals, whilst still maintaining carbon neutrality (via protection of set-asides).

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Ensuring good socio-economic outcomes

- **Avoid negative impacts** - A more robust and comprehensive implementation of **the existing rights-based framework**. **Independent audit** (verifiers) and reporting. A central role for communities themselves
- **Boost positive impacts** - A greater focus on community livelihoods and value-sharing. **Social contracts** specifying measurable outcomes, and fairer small-holder models. Co-management (with communities) of set-asides, with well defined guidelines for use of such areas

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The HCS+ socio-economic methodology

- Specifies the information/actions required by companies to **demonstrate** that human rights have been protected and that planned socio-economic outcomes have materialized.
- Metrics are needed to be **able to track** socio-economic impacts (positive or negative), and to underpin adaptive management
- HCS+ proposes a new measure, the Palm Oil Welfare Index (POWI) to establish socio-economic conditions **before** development, measure subsequent **impacts** on welfare and to identify **adaptive** actions

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HCS+ socio-economic methodology

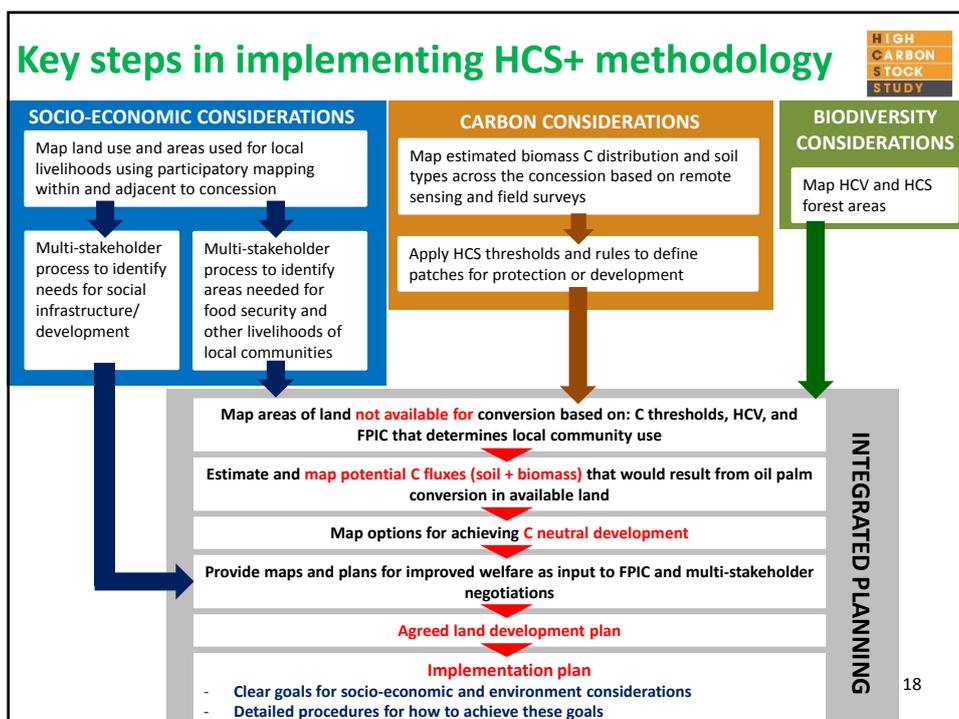
- **Clear, measurable, and objective criteria to *verify adherence to existing socio-economic standards*** (e.g. labour, FPIC, set-asides for livelihoods, participation, grievances, social infrastructure, fairness for small-holders)
- **A socio-economic auditing process** Socio-economic auditing should be carried out **prior to land conversion** to ensure informed consent and adequate livelihood set asides for local communities.
- **Clear procedures for companies to establish favourable small holder models and provide social infrastructure** Assistance to small holders with improved technologies and market access, as well as social infrastructure such as educational and health facilities, are likely to boost the positive socio-economic impacts of oil palm development.
- **A procedure to monitor socio-economic outcomes of oil palm development for local communities** Companies should use established methods, such as those recommended for POWI (Palm Oil Welfare Index) to monitor food⁶ security, income, and access to clean water and social infrastructure.

Integration of key inputs and processes

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HCS+ proposes a better integrated planning approach to facilitate sustainable oil palm development. This involves HCV and HCS+ assessments as well as FPIC processes and other inputs to produce development plans that take into account socio-economic, carbon and bio-diversity considerations.

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Conclusions



- HCS+ contains all required elements to support planning for sustainable development of oil palm, and provides a framework for integrating key inputs
- It builds on and enhances existing processes, especially RSPO P&C, HCV and FPIC
- Allows development without C debt, and provides a **strong mechanism for protection of set-aside forests**. Thus allowing some forest conversion to oil palm, is likely to lead to **better long-term conservation outcomes**
- Much can be implemented quickly, some parts require field testing to evaluate cost-effectiveness
- Considerable potential for convergence with the HCS Approach

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