

GF GIobal Forest Observations Initiative

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Realizing the promise of REDD

New approaches in voluntary carbon standards for achieving highintegrity REDD at scale

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Wildlife Conservation Society and REDD

- 15+ years of VCM project development Makira, Madagascar and Keo Seima Cambodia
- Field-led with staff in over 40 countries
- Staff include authors of multiple past and forthcoming Verra VCS REDD methodologies
- Why WCS believes in REDD
 - Predictable, long-term financing of conservation
 - Makes carbon owners market participants
 - Only mechanism with potential to scale to address need in near term



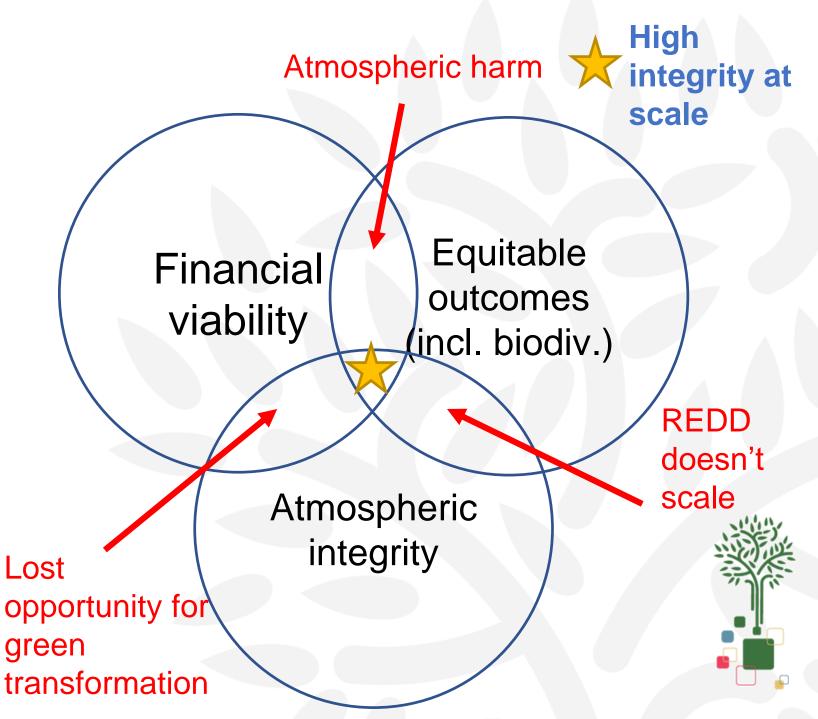
What is High Integrity REDD?

- Heightened market interest resulting in more scrutiny of ER claims (This is good!)
- What's new: Ability to evaluate counterfactual baselines ex post
 - New remote sensing capabilities
 - 15 years of VCM project impact reporting
- More discussion of "high integrity"
 - Atmospheric (additionality, leakage, permanence)
 - Equity
 - Biodiversity



Getting the balance right

- Atmos. integrity without financial viability can't scale: a global failure to conserve forests
- Financial viability without atmospheric integrity can scale, but with atmos. harm
- Equitable outcomes are not a 'nice to have' – ensure REDD payments drive regional transformation to green economy



Financial viability

- Donors now expect private sector to finance REDD
- Large upfront costs, multi-year setup
- 5, 10, or more years to achieve any net revenue
- Opportunity cost of foregone alternative land uses
- High Risks for project investors and carbon owners:
 - a) Project performance against baseline
 - b) VCU price volatility
 - c) Regulatory environment around carbon trading
 - d) Risk of poor ex-post evaluation of additionality
- <u>a-c can be mitigated, not d</u>



'REDD 1.0' approach for VCM

- 'Reference Region' (RR) acts as proxy for project
- Historical RR rates projected into future
- Projects develop baseline; 3rd party validates against rules of methodology

Why was this the approach?

- Data situation much different 10-15 years ago
- Deforestation often really does accelerate locally

'REDD 2.0' VCS consolidated REDD methodology

- All projects allocated a baseline deforestation rate from a shared jurisdictional estimate
- No more use of trends: historical average only
- Shorter baseline, reassessed every 6 years
- Conservative adjustments applied to both activity data and emission factors
- Shared jurisdictional risk map used to localize deforestation rates to project areas and leakage belts
- Project proponents still responsible for developing emission factors



VCS consolidated REDD methodology - Advantages

- Removes cost and time barriers to project startup
- Increases carbon owner and investor confidence in revenue projections
- Removes perceived (rightly or not) conflict of interests
- Builds momentum towards self-sustaining jurisdictional programs
- Encourages cooperation between project developers, and between VCM and national REDD programs



Major outstanding questions - Risk Maps

- How to define the 'best' map?
 - Can it be reduced to one statistic?
 - Total operating characteristic (TOC)? Area under the curve (AUC)? Other?
 - Global measure vs focus on highest risk areas?
- How to build counterfactual once a project has performance?
 - Simple dynamic variables most predictive (distance to forest edge, distance to deforestation)
 - Dynamic variables may create perverse incentives for later conservation
- How to weigh simplicity vs predictive power? Are 'black box' models undesirable?



Leakage – Current VCS approaches

| Туре | Leakage risk | How assessed |
|------------------------------------|---|--|
| Local activity shifting | Local residents deforest in the area around the project, instead of in the project | Leakage belt around project area is monitored against a baseline |
| Migrant activity shifting | Migrants do not immigrate to the project area, and instead migrate and deforest elsewhere in the country | Percent migrants estimated through social survey, assumed 100% of migrants deforest elsewhere |
| Deforestation to degradation | Wood that otherwise would have been harvested through deforestation is now harvested through degradation of project area | Evidence of logging monitored in project; ERs adjusted to account for lower carbon stocks of degraded areas |
| Market effects | Demand for a commodity is met through deforestation elsewhere nationally, rather than deforestation in project area | Proportional to commercial wood volumes in project area vs country |



Major outstanding questions Leakage

- Attribution of leakage emissions to project activities is challenging
- Complex models or studies may better show attribution, but at high cost and perceived decrease in transparency
- Simple approaches may fail to create incentives for projects to limit leakage
- What is the right balance to create incentives without excessive burden to project?
- Leakage has received substantially less than biomass stocks and baselines



Summary

- REDD is by far the most mature market-based mechanism to address forest conservation at scale
- Ex post evaluation of additionality has an important role, but must be balanced against practical financial realities of individual projects.
- At least two frontiers for new research on atmospheric integrity:
 - Risk maps what is 'best', and behavior over multiple baseline periods
 - All leakage types need more attention what is fair to projects while also incentivizing real leakage avoidance?
- Scientific community can help by providing specific recommendations that build on and improve existing VCM methodologies



Thank you.

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