Integrating biodiversity and carbon: Examples of 'stacking' and 'bundling'

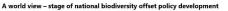
Amrei von Hase

Land Use 2021: A Place for Biodiversity Offsets A Series of Web Events Presented by the Alberta Land Institute, Canada

Context

- NNL/NG and mitigation policies on the rise
- Safeguards are crucial: Initiatives like BBOP, IMEC and others provide guidance on best practice
- Parallel trends relating to carbon offsets and their role in climate change mitigation
- Lots of controversy around offsets: what if combine bio and C offsets?
- More broadly how to incentivize, reward multiple benefit approaches (i.e. beyond individual ecosystem services), promote synergies and limit risks and trade-offs?
- 'Stacking' & 'Bundling' as possible approaches







https://www.forest-trends.org/bbop/







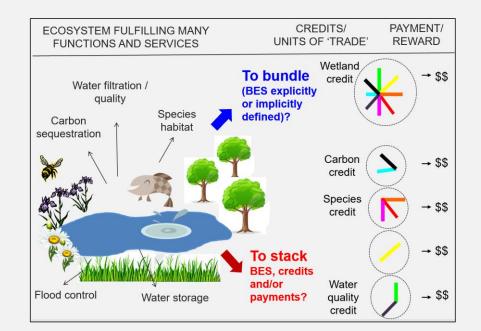


https://www.foresttrends.org/bbop_pubs/stacking_and_bundling/

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- Review of the concepts in the literature
- Set out definitions, benefits, risks
- Looked at what is happening across the world in practice: selected projects and policies (> 20)
- Focus on stacking given greatest interest, also risk



Forest Carbon Markets & Bio (voluntary)

- Carbon offset projects (eg. REDD+) adopting best practice multiple benefit standards (eg. CCB & VCS)
- Focal service and credit: CO2 emissions reduction aimed at climate mitigation
- Co-benefits for biodiversity and people are explicitly evaluated and demonstrated
- **Bundle** of services is traded, cannot be disaggregated / separately sold
- NB Discussions around stacking biodiversity offsets & REDD+ projects – lack of additionality





Social and Biodiversity Impact Assessment (SBIA) Manual for REDD+ Projects







Biodiversity and Carbon offset policy

- Australian example: Two federal and one state policy
 with different provisions on stacking
- Carbon Credits Act (CFI, 2011) enables land managers to obtain carbon credits (e.g. through reforestation).
 - Must demonstrate additionality.
- EPBC Biodiversity Offset Policy (2012) sets out role of offsets for developments affecting biodiversity of national significance.
 - No stacking of bio offsets & C offsets allowed.
- NSW Offset Policy for Major Projects (2014)
 - Explicitly allows stacking of bio credits and C credits produced through the same actions.
 - Criticism: lack of additionality, double dipping, risking net loss of biodiversity



Carbon Credits (Carbon Farming Initiative) Act 2011 No. 101, 2011

> astralian Government opartment of Sustainability, Environ



Environment Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy



NSW Biodiversity Offsets Policy for Major Projects

Biodiversity offset policy (reg) & C (vol)

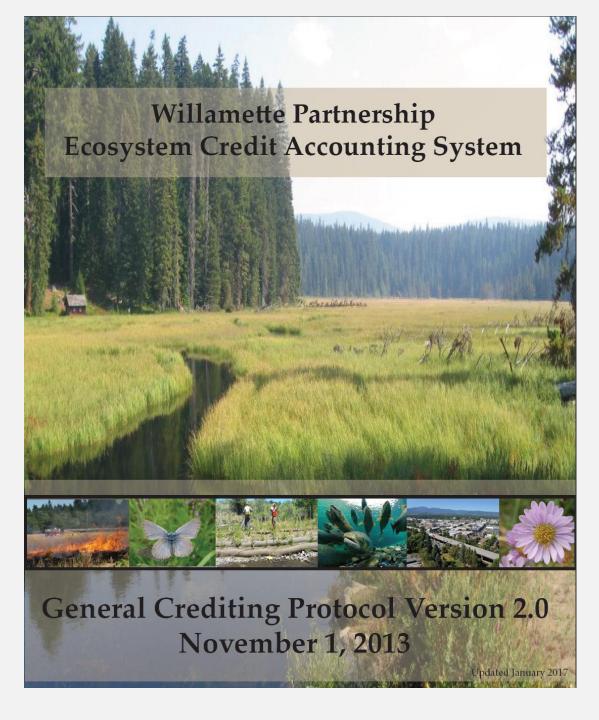
 Impact assessment and mitigation in Germany regulated under federal law (under the Nature Conservation Act).



- Flaechenargentur Brandenburg provides compensation pools that supply compliance driven ecological credits to developers needing to offset their biodiversity impacts
- Agency interested in selling voluntary carbon credits ('Moorfutures')
- Stakeholder discussions led to 2 models:
 - Ecological and C credits on different lands and from different management actions (no overlap)
 - Stack but don't unbundle
- Reasons: Assure additionality, safeguard integrity of credits, credibility of the agency
 https://www.flaechenagentur.de









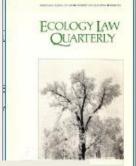
https://willamettepartnership.org

- Provides a protocol for transparent accounting of different credit types (eg. water quality, habitat)
- Stacking but no unbundling
 - Used in compensation and voluntary incentive schemes



Some insights and recommendations

- Plan early & well:
 - · clarify objectives and desired outcomes,
 - investigate options, interactions with other programmes,
 - understand implications, including for the environment.
 - then design scheme/ policy.
- Pilot
- Bundle don't stack.
- When considering stacking, some useful options and 'rules of thumb' have been set out



Gardner & Fox 2013. The Legal Status of Environmental Credit Stacking. <u>https://ssrn.com/abstra</u> <u>ct=2375858</u>



Thank you.

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