

1) How did carbon become a business case? 2) What are the challenges for a business case for REDD? 3) How do national- and project-level crediting compare? 4) How can we ensure a business case for early action in an international REDD scheme? 5) How can we create mutual safeguards for private investment and environmental integrity?



How did carbon become a business case?

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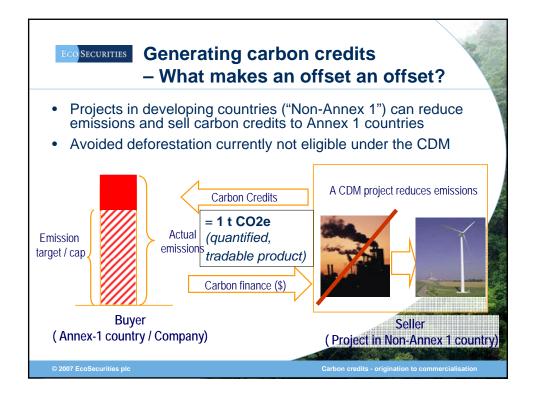
Carbon credits - origination to commercialisation



1) What created business interest in carbon (emission reductions)?

- Science & policy defined a quantifiable <u>product</u>
 - 1 ton of carbon / CO₂
- International and national regulation created <u>demand</u> for this product
 - E.g. through national limits on carbon emissions (Kyoto and EU Allowances (AAUs, EUAs), National Allocation Plans)
- **Companies**, NGOs, research institutions etc. developed technologies to <u>supply</u> the product
 - E.g. Emission reducing technologies and land-use activities

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What created business interest in carbon?

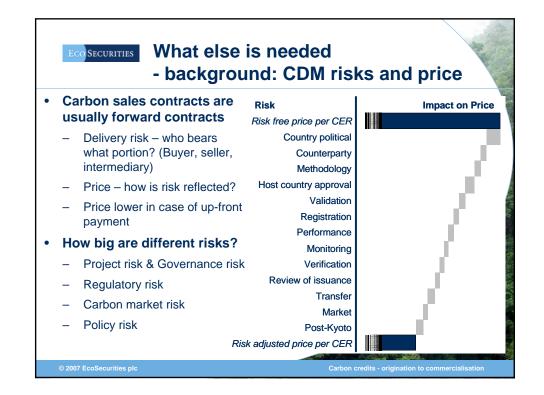
- But also <u>voluntary</u> demand for carbon reductions
 - CSR & PR, consumer conscience
 - Mainstreaming of climate change, e.g. Foodmiles
 - Pre-compliance "training" (not strictly voluntary)
- Supply follows and creates further demand
- However, important to note differences in market size:
 - Regulatory carbon markets: US\$ 32.2 billion in 2006
 - Of which US\$ 7.9 billion under CDM
 - Voluntary carbon markets: US\$ 92 million in 2006
 - → less than 0.3 % of regulatory markets...

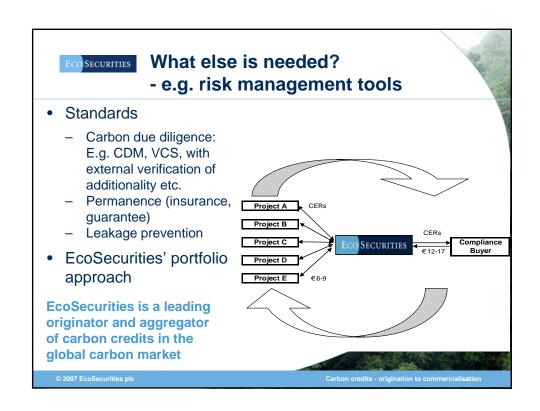
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What else is needed for carbon markets to work?

- · Predictable regulatory framework
 - ... creating predictable **demand** for the product, e.g. emission reductions
- Risk management tools for
 - Project risk (affecting project performance, i.e. ES provision), incl.:
 - Technology risk (e.g. renewable energy, tree planting)
 - Project management (e.g. financial mgt)
 - Governance in host country, political stability, judicial system etc
 - Policy risk (regulatory framework, e.g. CDM)
 - Market risk (carbon prices, demand)
- Pioneers someone to stick out their neck (take a risk)
 - E.g. WorldBank Prototype Carbon Fund, BioCarbon Fund
 - EU (EU Emission Trading System)
 - Private investors, project developers, etc.
 - E.g. EcoSecurities

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Governance Risk in REDD

If a country (government) is the project developer & carbon seller

- Will they manage to lower deforestation, i.e. achieve REDD ?
 - → Will there actually be any REDD credits?
- What is the country's track record of natural resource management?
 - Large share of current emissions from 'illegal' activities
 - Insecure land tenure, corruption, intransparent judicial systems, etc.
- → Can these underlying causes of deforestation be addressed?
- · Is there a strong institutional set up / willingness to reform?
- → How can benefits (and incentives) get to communities and landholder?
- · Are there good monitoring and reporting systems?

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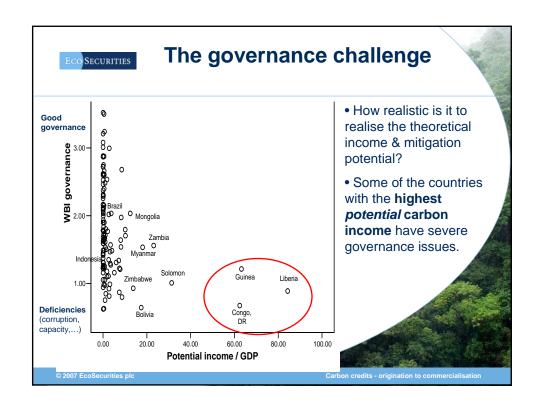


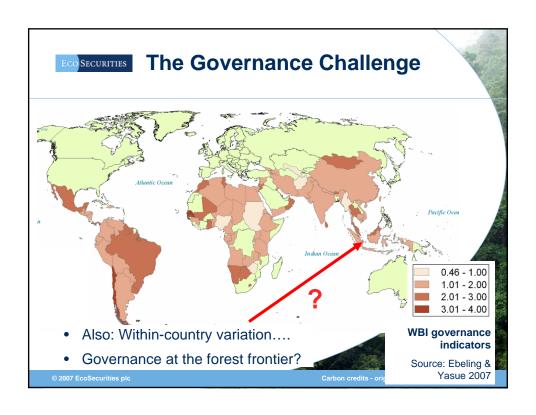
Governance Risk in REDD

If a landholder, company, or community is the project developer:

- Governance still matters a lot!
- What risks to the project arise from governance in the country?
 - e.g. land tenure security, economic, political, judicial stability
- If government is intermediary for international REDD trading:
 - What is the risk of intransparency, misallocation and corruption?

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How do national- and projectlevel crediting for REDD compare?

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So what is good about national-level crediting?

- National baseline, monitoring, and accounting system address leakage within a country
- Governments can implement changes that are outside the scope of projects
 - E.g. command-and-control policies, land-tenure and judicial reform, infrastructure planning, tax incentives,...
 - Consider "governed" deforestation
- Potentially larger scale = potentially greater climatic benefit and lower relative transaction costs





Could the private sector provide similar support as for projects?

Intermediaries like EcoSecurities are instrumental for the success of project-based GHG reduction

- Projects can prove cash flow to investors through an Emission Reductions Purchase Agreement (ERPA)
- Intermediaries such as EcoSecurities
 - take on transaction costs of the CDM and VER projects
 - can provide seed capital through upfront payments in ERPAs
 - can directly invest into projects or facilitate investment
- Buyers don't like uncertainties regarding delivery (under forward contracts)
 - EcoSecurities takes on delivery risk through portfolio approach

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Why is this relevant for REDD?

- If REDD scheme allows for direct project crediting, then private sector can facilitate ERs as in CDM
- If REDD only allows crediting to governments, then business case for facilitating on-the-ground activities probably falls away...
- → If so: Will the market function well without the facilitating role and financial flows of the private sector?

Is a role for the private sector desirable or necessary?

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How would a national crediting system work in the market?

- Host governments need large incentives to put effort into reducing deforestation on a national scale
 - → They need large purchase commitments
- Large transactions with few sellers = high delivery risk!
- And many host governments will face delivery problems (governance, capacity, drivers of deforestation)
- Risk of upfront payments is high
 - → Buyers will pay on delivery

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How would a national crediting system work in the market?

- How will governments translate future credit sales into incentives for on-the-ground activities?
 - Upfront investments are needed
- Private sector reluctant to pay upfront in forward carbon contracts with developing-country governments: high delivery risk!
- Currently active role of private sector to achieve GHG reductions (and many NGOs in forest stewardship)
 - Governments would have to take on their role or transfer sufficient incentives to them
 - Forest conservation has no other income apart from C credits; opportunity costs can be high

Worst-case scenario for REDD

- Without sufficient commitments from buyers, a selling REDD host country will not invest into reducing deforestation
- End result: Nothing happens!
 - Especially no early action and it may take many years for countries to even have the potential capacity to implement national REDD approaches, let alone put them into practice
 - Business-as-usual with all the negative effects for climater biodiversity and livelihoods

A <u>hybrid crediting approach</u> in REDD – A suggestion for discussion

- National monitoring and accounting system measures country-wide emission reductions, i.e. government activities to reduce deforestation
 - Also accounts for leakage (from projects and local activities)
- 2) Projects can directly receive and sell international credits
 - But they have to pay a 'tax' / 'levy' to governments for leakage control, monitoring, etc.
- Project credits get deducted from a mandatory national registry (no double-counting)

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Advantages of hybrid approach

- Capacity of private sector to implement and facilitate activities is maintained (similar dynamics as in CDM)
- Buyers could more effectively manage their purchasing strategies and don't have to commit to buying large volumes from a single seller
- Host governments would have incentives
 - to reduce deforestations for national crediting, but also
 - to facilitate project performance in order to collect REDD 'tax' (which is proportional to performance, i.e. ERs)

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How can we ensure early action in an international REDD scheme?

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Encouraging early activities under REDD agreement

- Incentives for early action needed (pre-2013)
 - For "readiness" and capacity & for on-the-ground emission reduction activities
 - Incentives for latter could be carbon credits or fund-based payments
 - Credits could be early crediting under REDD or VERs (but beware of uncertain demand/ overall market volume)
 - We need: funds on sufficient scale and relatively quick to mobilise
- Hybrid crediting schemes could also bridge "transitional" period to national REDD
 - But some countries may never get there or need many years
 - Important not to penalise early movers, i.e. provide fair and consistent incentives
 - Important to not double-count and to stop crediting once all carbon of a forest is sold

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How can we create safeguards

for both private investment and environmental integrity in REDD?

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Safeguards for early action

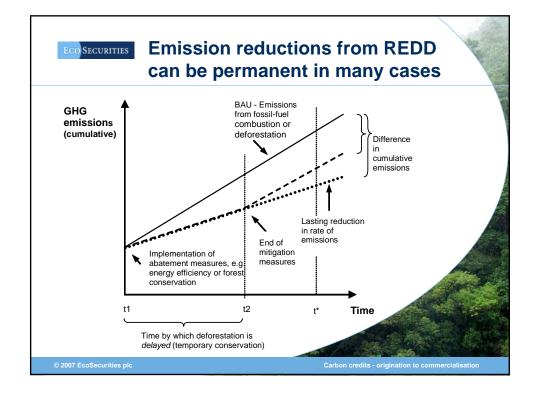
- Don't let perfect be enemy of the good (and feasible)!
 - That does NOT mean to lower standards but to find pragmatic solutions (e.g. discounting instead of most complex leakage accounting)
 - In both ways ensuring environmental / social safeguards and investment safeguards!
 - No one says markets are without issues but we have moved on from the past "sinks debate"

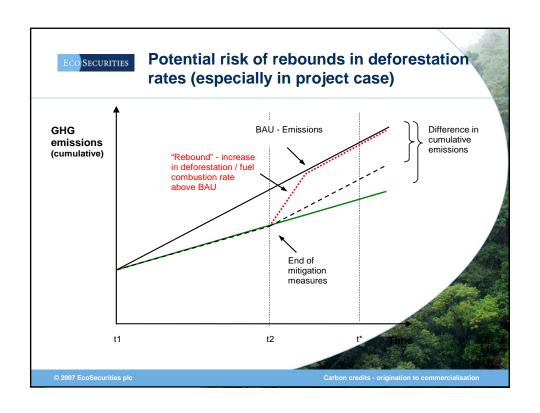
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Necessary safeguards for hybrid approach

- Leakage: CDM / VCS accounting
 - If uncertain: be conservative and discount but work towards functioning market
 - CDM AR methodologies are very conservative and complex (high environmental integrity) to the point of discouraging project investment (trade-off with overall emission reductions achieved!)
- Permanence: differences between projects and national crediting
 - Emissions are reduced rather than sinks created but nevertheless insurance against non-permanence is required
 - E.g. buffers for projects (VCS global bundling applied nationally?)
 - Size depends on drivers, risks, management, size of carbon pool / forest, etc. and needs to be revised
- Discount for remaining uncertainties

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Suggestions for addressing further perceived risks for / of markets

- Market flooding / crowding out
 - Risk may not be real, but concerns are very real
 - → negotiated **cap** (but *fungible* credits)
 - Cap to be revised as experience gathers
 - Supply up to cap has to be matched by strict Annex-1 commitments
 - Floor on demand could provide some certainty for sellers and investors

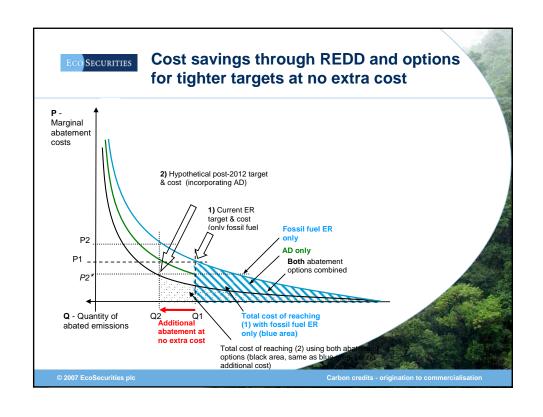
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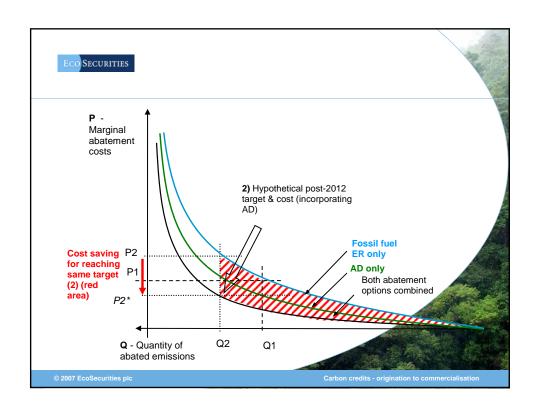
Suggestions for addressing further perceived risks for / of markets

- Any additional mitigation option reduces average abatement costs (REDD does not simply create cheap credits from one source displacing others!)
 - → Let's not waste opportunity for cheaper and deeper emission cuts overall!!
- Concrete requirements for environmental and social safeguards should come from countries
 - Political acceptability is key and there is not one definition of 'sustainable development'.
 - Carbon colonialism, denial of right to develop,... lets not waste time on same debates again!
 - Bilateral, voluntary add-ons, commitments etc. for extra safeguards, e.g. CCBS, HCVF framework on landscape and project level!

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Is there a business case for poverty alleviation in ES markets?

- Mixed (and disappointing) experiences with the CDM
 - Investors prefer large-scale projects with high returns and established technologies (industrial gases, hydro-power,...)
 - Complex and bureaucratic standards increase transaction costs
 - High transaction costs deter from small community-based investments
- How to "commoditise" poverty alleviation?
 - Payments for emission reductions & maybe for biodiversity o.k., but for livelihood provision? (How could it be measured, how to set targets?)
- Danger of over-regulating ES markets
 - E.g. as it has happened for forestry CDM
 - Markets may not be the ideal approach for development benefits
 - However, private investment need not be via markets
- Voluntary carbon markets value (demand & price) development co-benefits
 - Different buyer motivation than in mandatory schemes

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Is there a business case for poverty alleviation in ES markets?

- We need simplified and pragmatic approaches to implement pro-poor ES projects while safeguarding the ES provision (e.g. credible, verifiable carbon reductions)
 - Promising approaches via project bundling and "Programme of Activities" under the CDM (and small-scale methodologies)
 - Alternative approaches: E.g. aim for high transaction volumes that can be taxed with revenues used for targeted development interventions
- REDD is the most immediate (large-scale) ES opportunity with a large potential for poverty reduction
- → The Global Mechanism and EcoSecurities develop multiple-benefit projects
 - To create benefits for poverty alleviation and rural livelihoods
 - To address land degradation, while mitigating CC







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Carbon Credit portfolio at 5 September 2007 comprised of: 456 CDM projects Projects have the potential to generate over 142 million CERs 44 voluntary projects Projects have the potential to generate over 4.3 million VERs





