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Field Implementation Aspects of REDD+ Projects: Lessons from the Sustainable Forestry and Rural Development Project (SUFORD) Lao PDR



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Anne Arvola/Majella Clarke

Overview



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- Sustainable Forestry Management and Village Development in SUFORD
- Approaching REDD+ Implementation
- REDD+ challenges
- REDD+ MRV

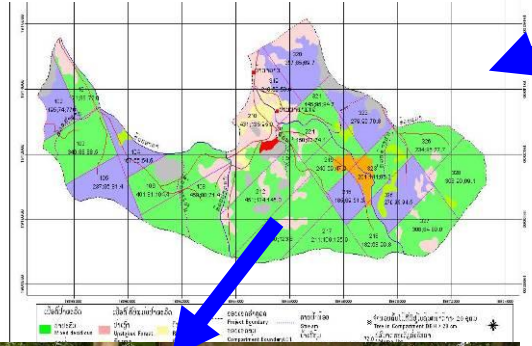


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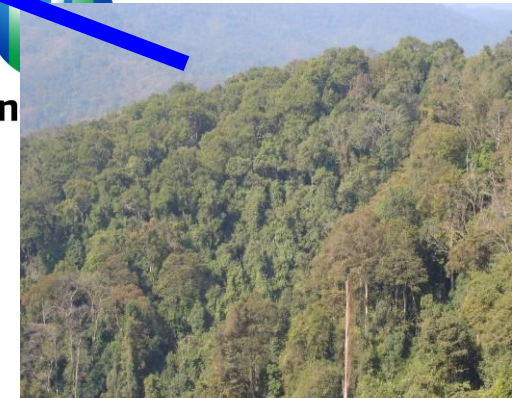
What Does the SUFORD Project do?



Management Plans



Participatory Forest Inventory



Production Forest

Timber harvesting in Production Forests Areas



Tree Marking



Felling



Monitoring



Timber sell

80,000 hectares of PFAs have been certified by Smartwood



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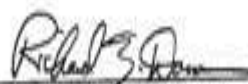
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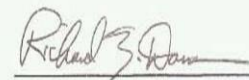
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SUFORD's Village Development Fund Mechanism



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Timber Revenue Benefit Sharing

Village Development Grants and the Revolving Village Development Fund

USD 4000-8000 per village

Village Development Plans and activities

Withdrawal from Village Bank account

Income generating activities



Infrastructure development



Awareness Raising and Capacity Building



Low carbon village development



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Approaching REDD+ in SUFORD: Phase 1 and Phase 2





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Approaching REDD+ in SUFORD: Phase 1

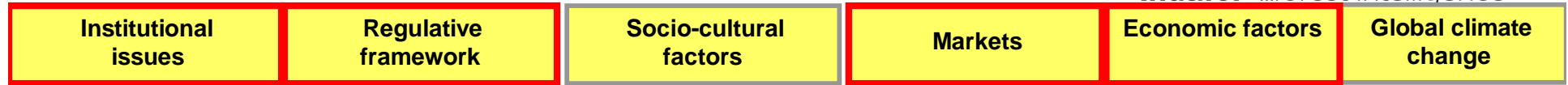
REDD+ Strategy Development
Institutional Strengthening
Capacity Building



Understand Drivers of Deforestation and Forest Degradation



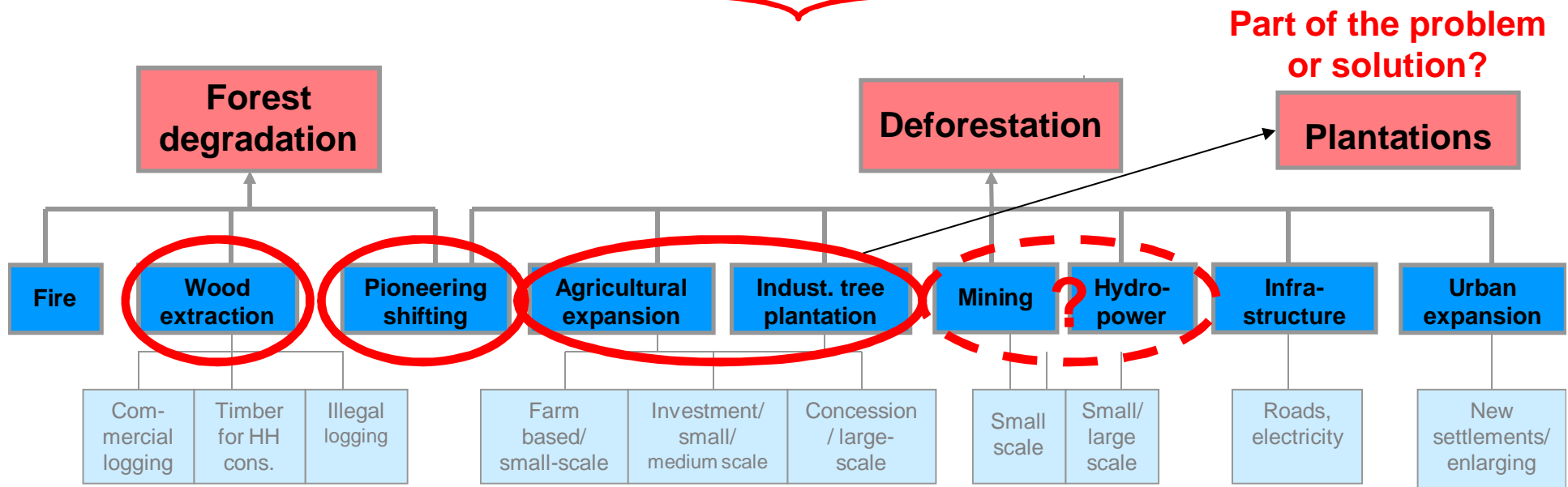
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Underlying



Immediate



Understand the Structure of Emissions from Land



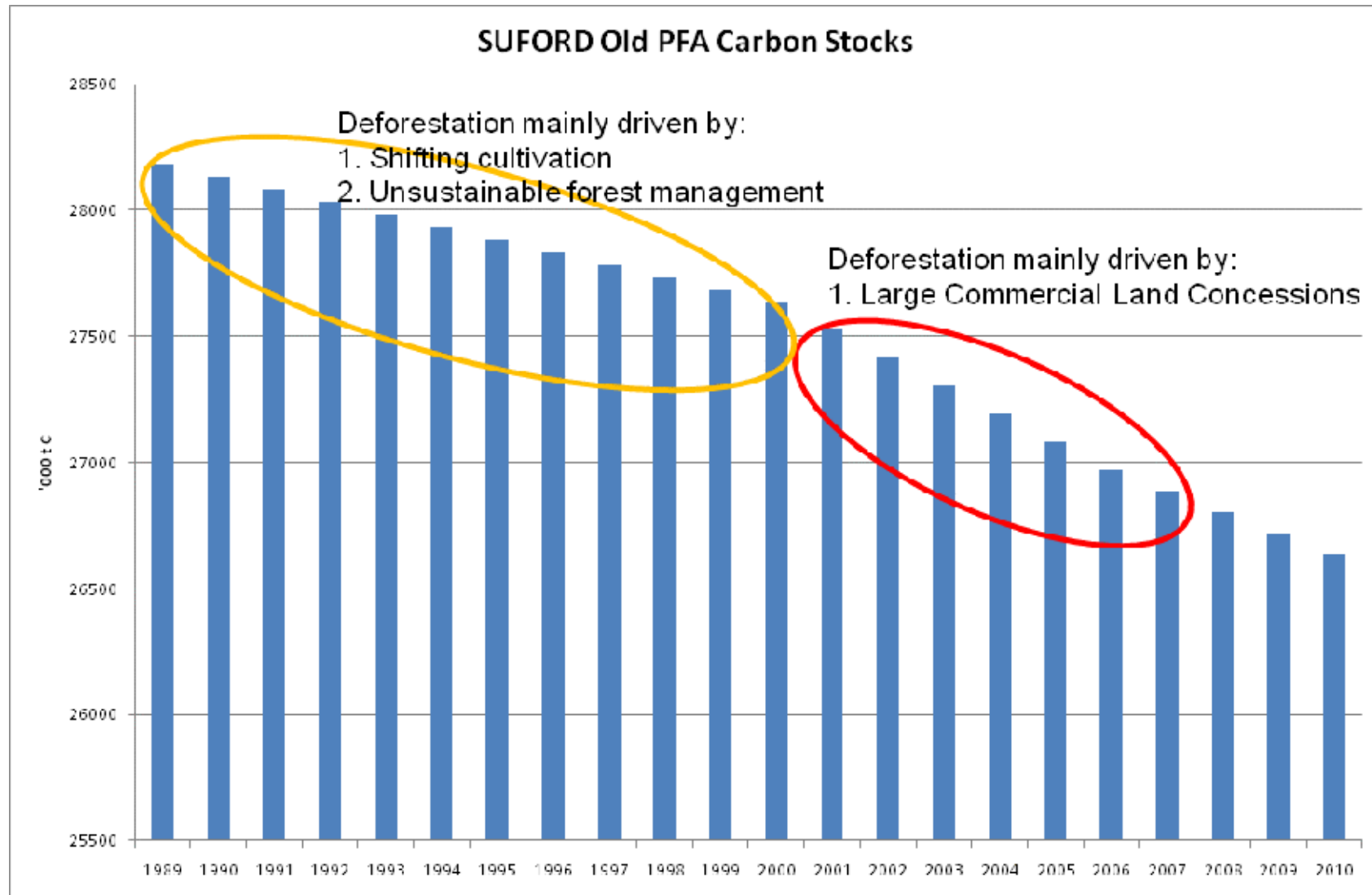
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DD Drivers	Estimated emissions
Degradation: (Logging SFM & illegal)?	6,960,000 tonnes CO ₂ /an
Encroachment: clearance & shifting cultivation	2,530,000 tonnes CO ₂ /an
Land concessions	3,260,000 tonnes CO ₂ /an
Mining	310,000 tonnes CO ₂ /an
Hydro-power	620,000 tonnes CO ₂ /an
Fuelwood	1.49 million tonnes CO ₂ /an

Drivers of Deforestation in SUFORD old PFAs



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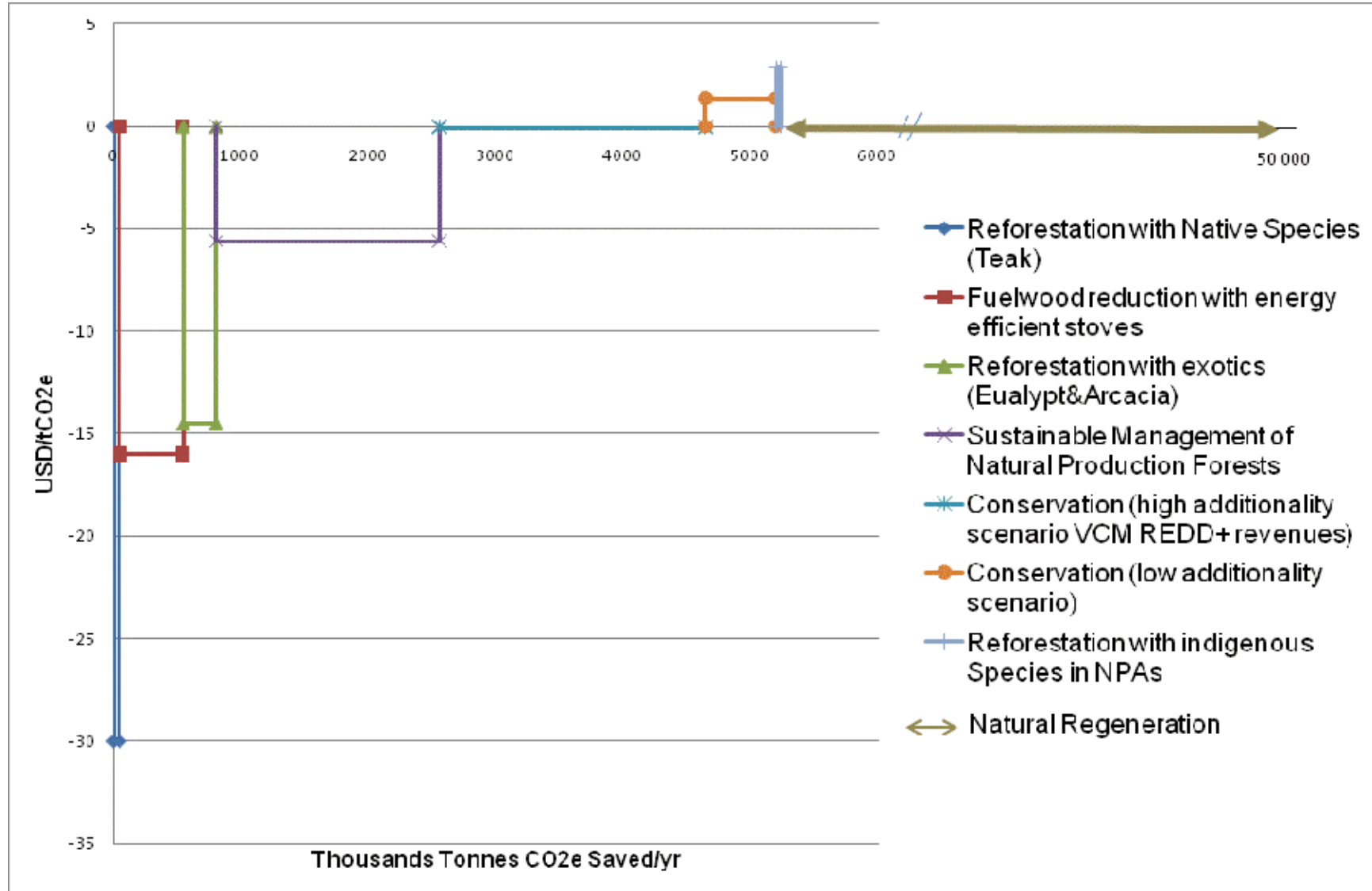
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What are the cost effective
mitigation options for Lao PDR?

Marginal Abatement Cost Curves for Forestry in Lao PDR: R-PP



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Approaching REDD+ in SUFORD: Phase 2 Demonstration Activities

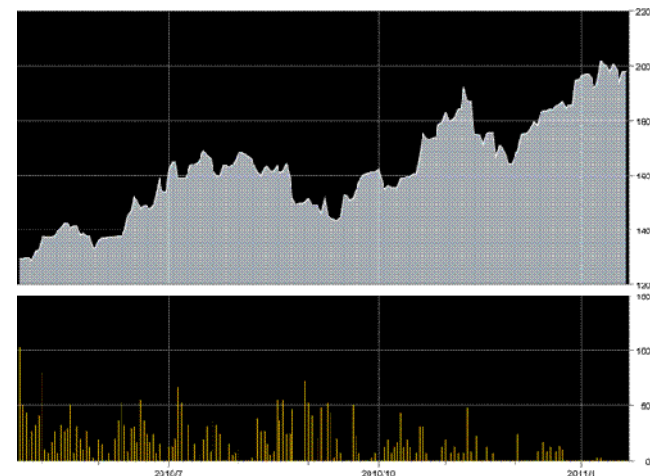
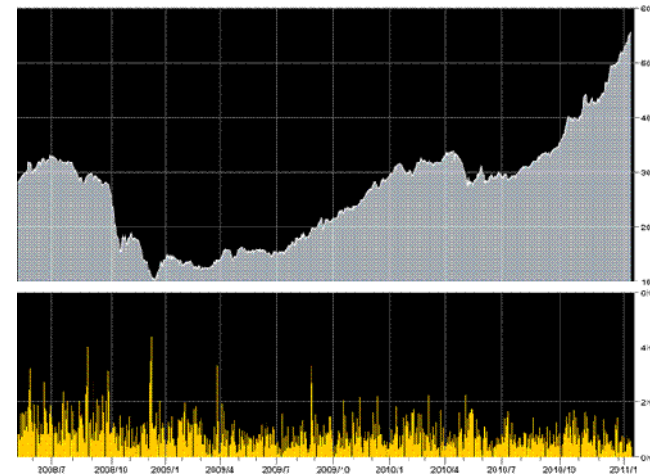


What makes REDD+ and sustainable forest management challenging?



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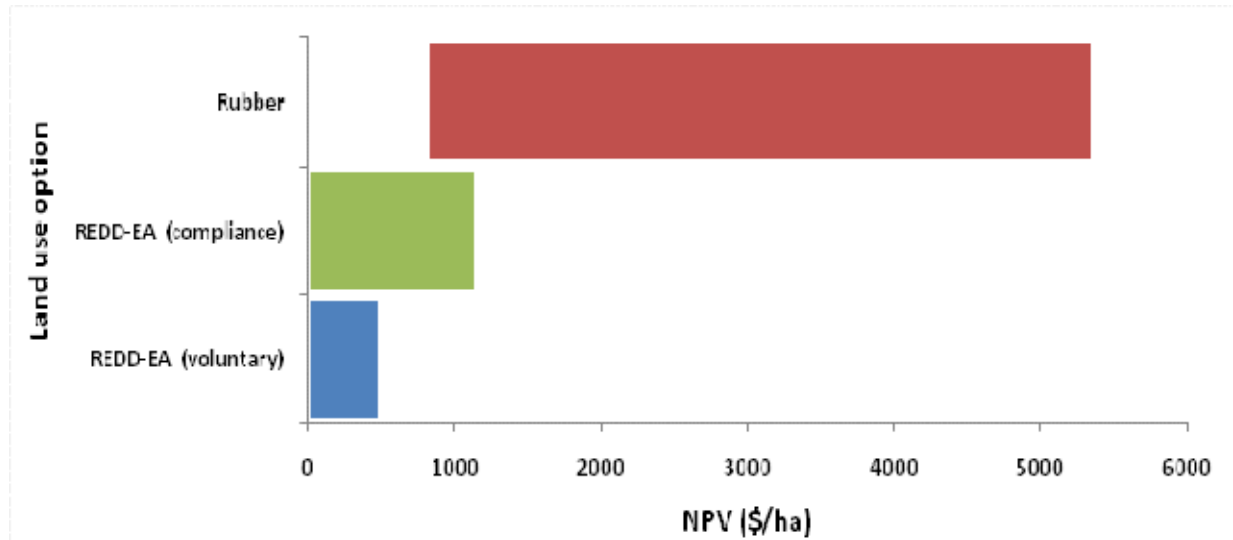
- High food prices
- High international agricultural commodity prices (rubber and coffee)
- Opportunity cost of alternative land uses
- Land tenure issues
- Large areas of highly degraded forest
- Transaction costs
- Fragmented Markets



Under what conditions can REDD+ Compete?



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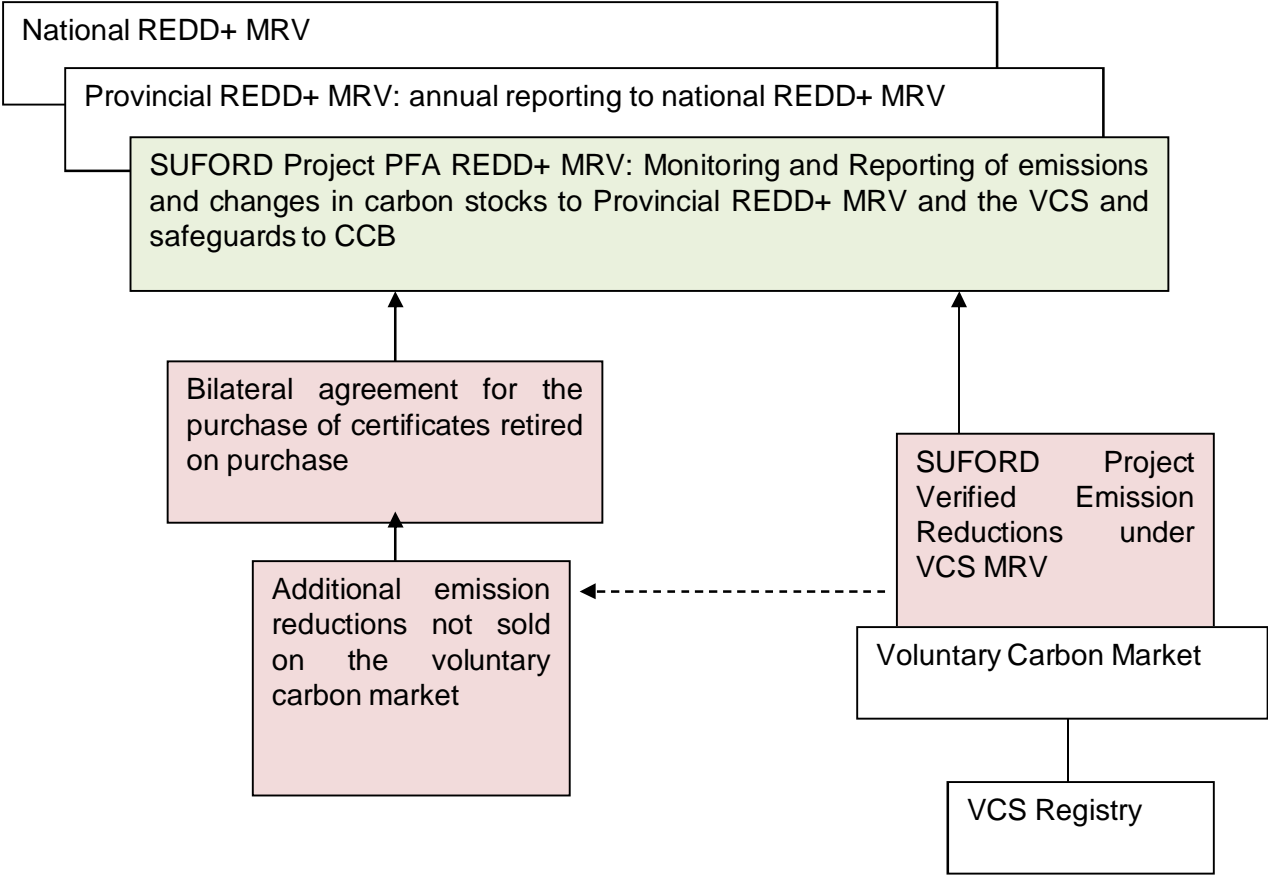


- High forest carbon stock areas (under threat) tC/ha120-200
- Compliance Market Price EUR 15 t CO₂e
- Implementation and transaction costs not considered

REDD+ MRV Framework



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SUFORD REDD+ MRV core components



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- Support to
 - Monitoring of reference levels against a 10 yr adjustable baseline deforestation and forest degradation under the VCS (*IPCC Good Practice Guidance*)
 - Monitoring compliance with SE safeguards (*WB & CCB*)
 - Support reporting on REDD+ compliance (*UNFCCC requirements*)

MRV current achievements



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- Technical Report on the Valuation of Enhancement of Carbon Stocks through Restoration and Regeneration in SUFORD old PFAs
- Accuracy - SUFORD areas Tier 3, other areas Tier 1-2

PFA Land Cover and Carbon Change Analysis



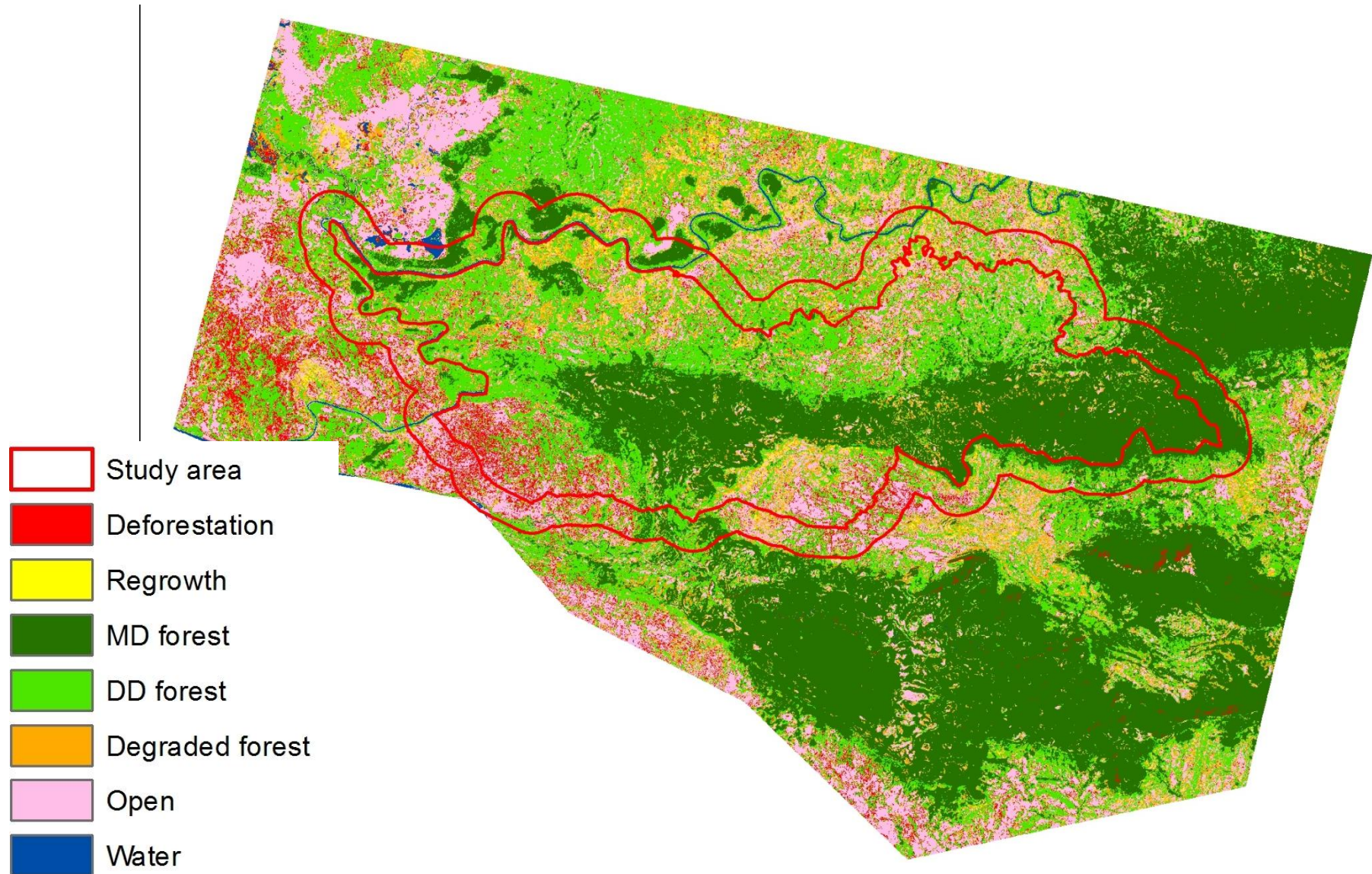
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- Landsat satellite image series (1989/92, 2000, 2006/7, 2009/10)
- Pixel-based change estimation using VTT AutoChange tool

Deforestation before SUFORD 1989 – 2006



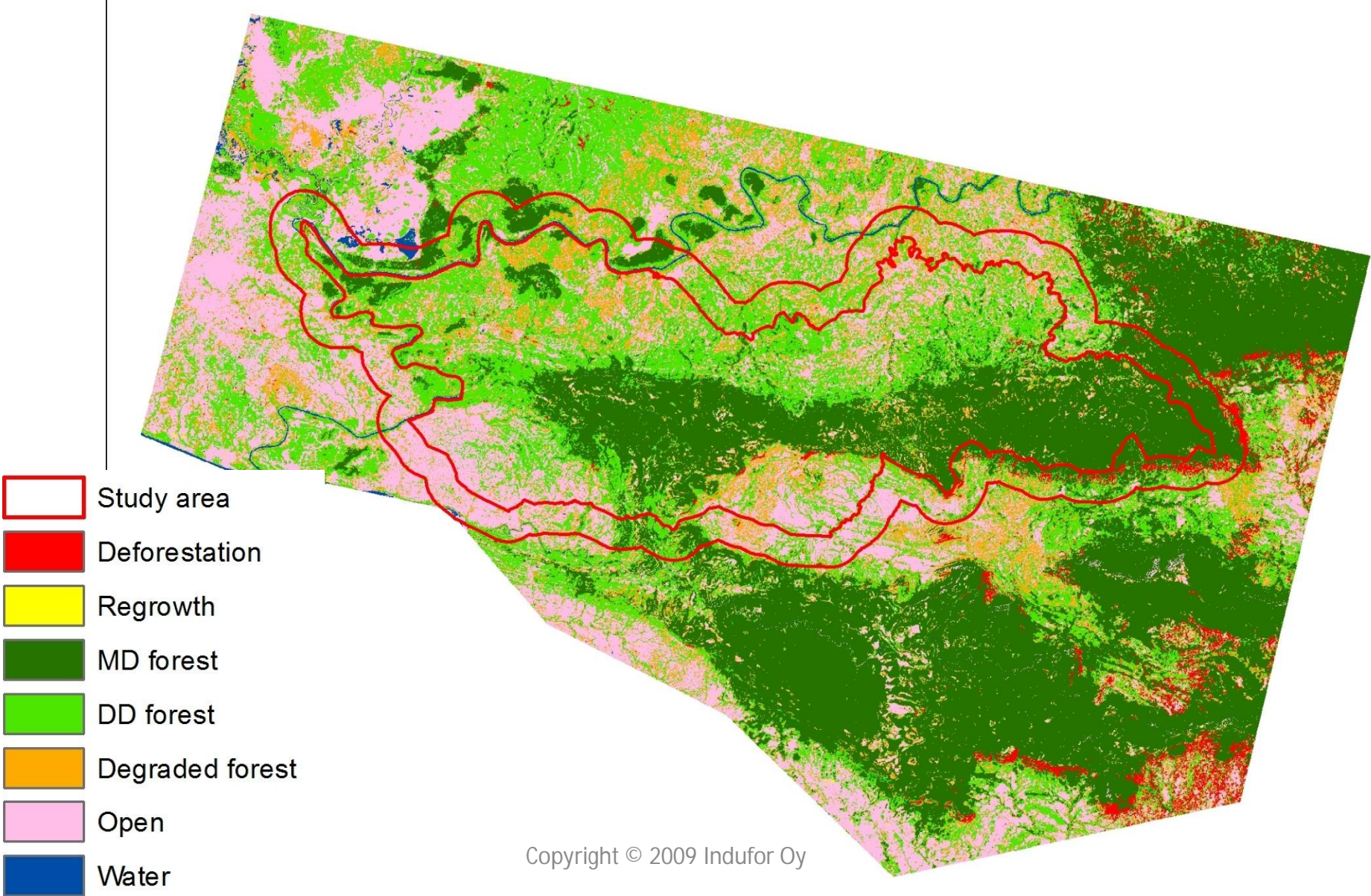
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Deforestation during SUFORD 2006 – 2009



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Carbon calculations



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- Calculation of average carbon stock per forest type using forest management plan of a representative sub-FMA
- Same carbon stock used outside PFA boundaries
 - Volume from FMP
 - Mean wood density from FAO
 - BEF and Root-shoot ration from Nam Leuk study
 - Carbon fraction from IPCC (2003)

Development needs



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- Short-term
 - Permanent sample plot system, forest inventory
 - No resources e.g. for soil carbon inventory
- Medium/long-term
 - Capacity to maintain/develop the current monitoring system in PFA areas
 - Funding
 - Institutions: capacity at provincial & district level

Discussion



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