

Generating carbon credits through dairy productivity gains

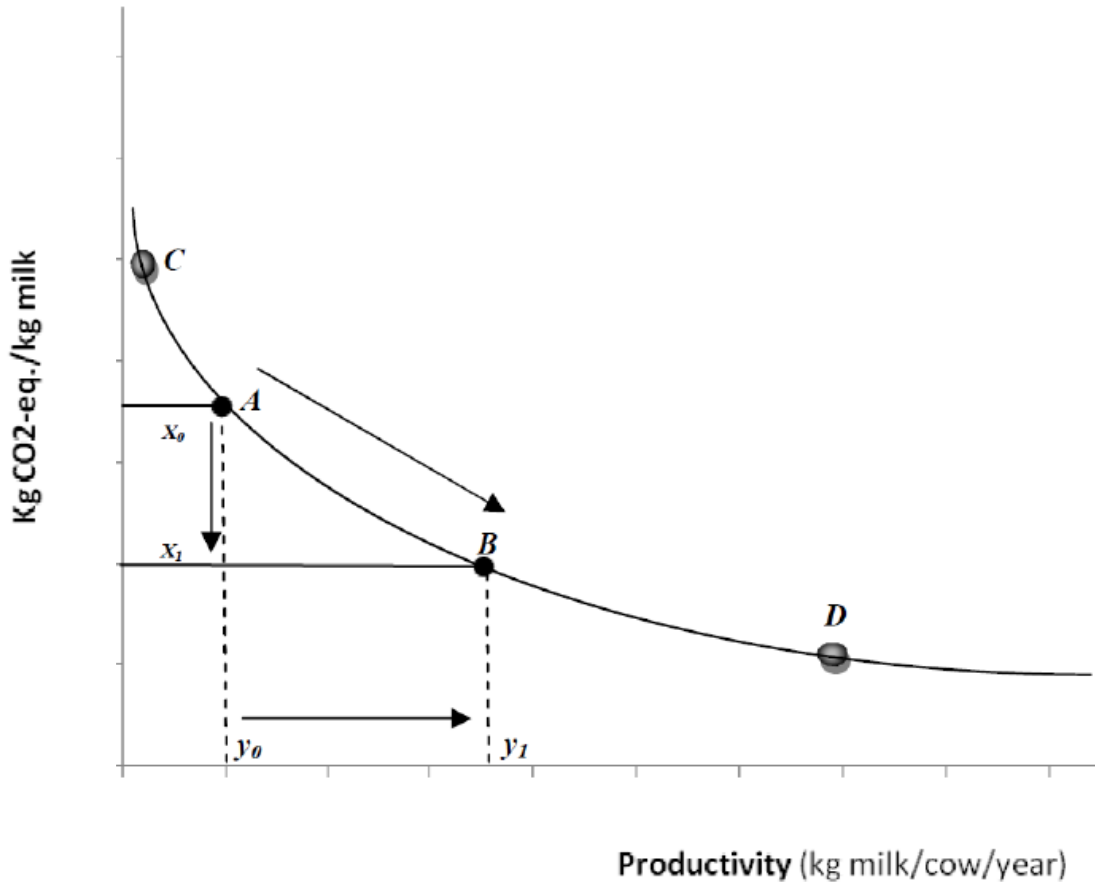
A concept for a pilot project

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The underlying Concept



Move from A to B:
improve productivity
and generate Carbon
credits



Objective

- ▶ Test and demonstrate the potential for linking reductions in emission intensity in dairy production achieved through productivity gains to carbon credit mechanisms



What, where, why, how

What (focus)

- Development of **certified methodology** to link productivity gains to reductions in GHG emission intensity
- Development of **financing mechanism** to fund technical interventions – carbon credit

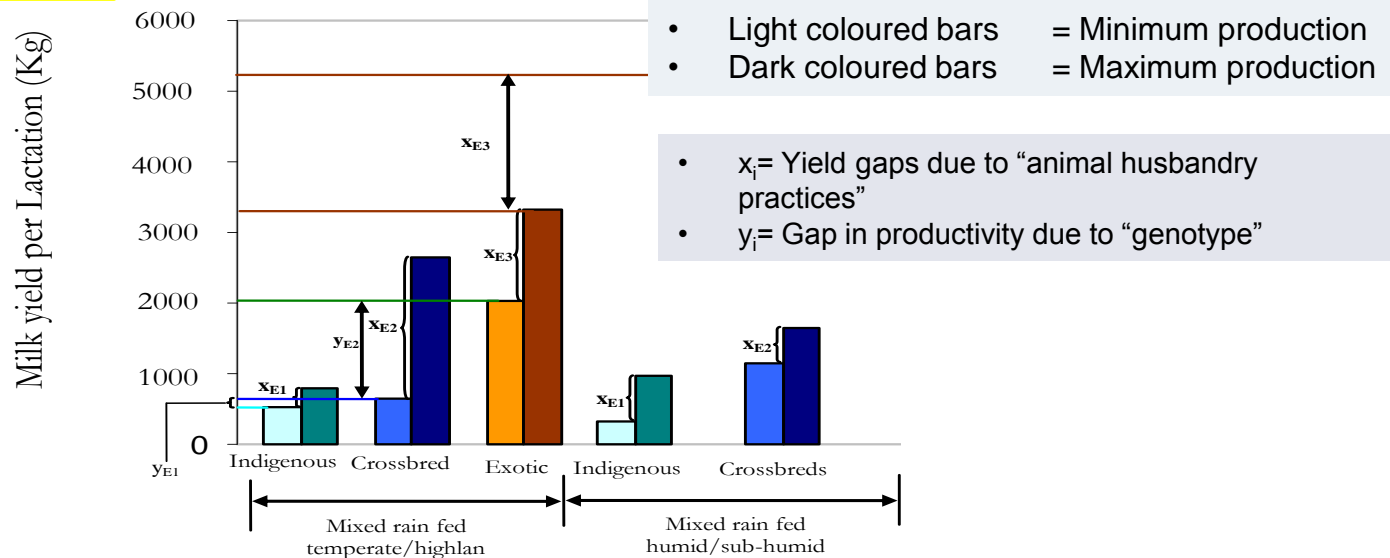
Where

- Focus: smallholder dairy production
- Targeting: Producers within a range of 500-2500kg milk/year
- Site pre-selection - Kenya

Why

- Yield gap to exploit

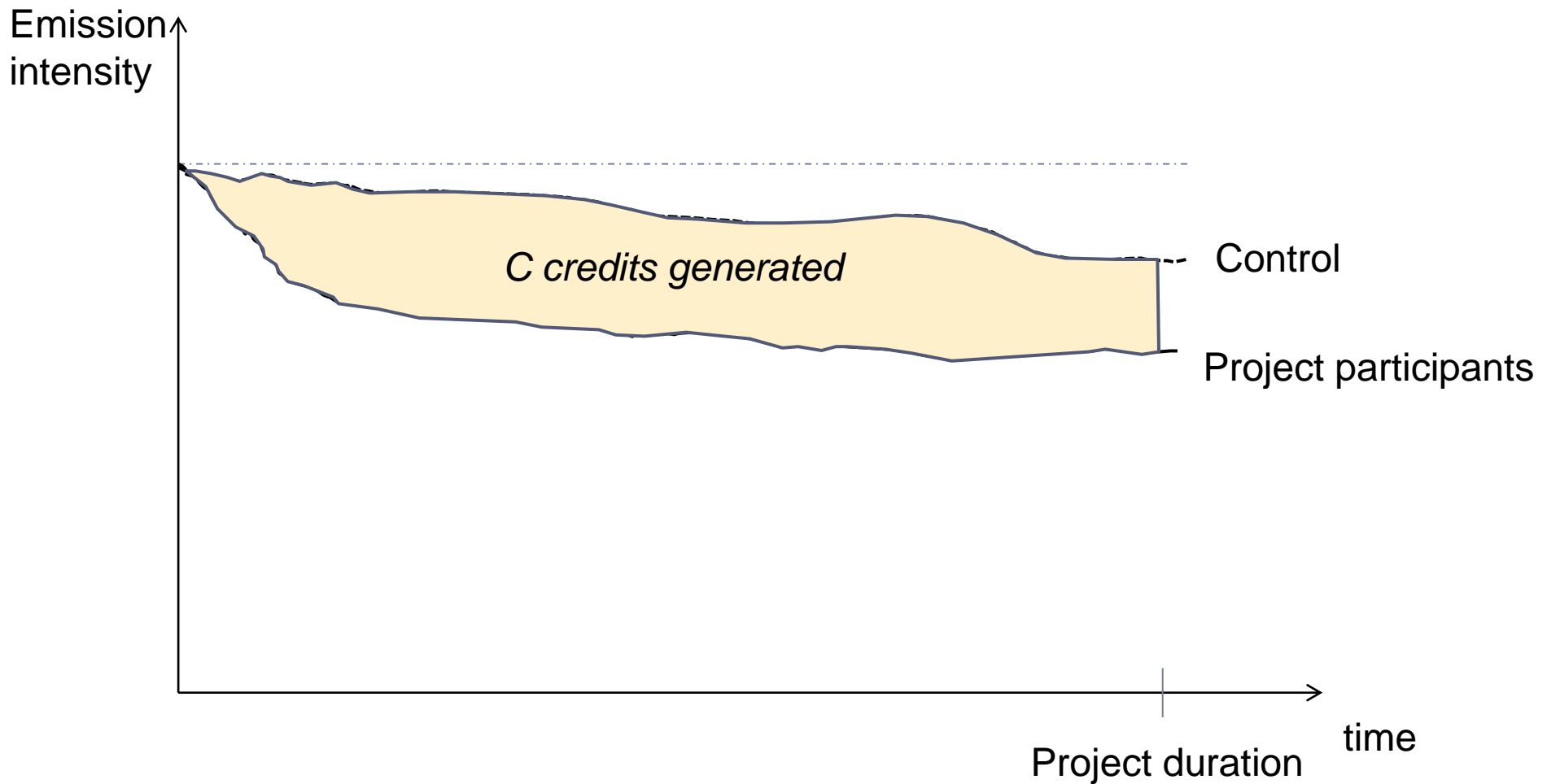
C. East Africa



How

- Facilitating transfer of existing technology/know-how
- Speed-up adoption through carbon finance mechanisms

Design



Carbon credit scenario-possible CC revenue

Assumptions: Target volume: 10,000 ton CO ₂ e/kg/year Milk per cow: 1000 litres Price of credits: 7 US\$/tCO ₂ e <i>(conservative)</i>	Emission intensity reduction scenarios	2.5	2.0
	Milk volume (liters per year)	4,000,000	5,000,000
	Payment US\$/year	70,000	70,000
	Payment per HH (US\$/5 cattle/10 years)	875.0	700.0
	Milk income per site (@ .3USD/l)	1,200,000	1,500,000
	C credit as % of milk income	5.8%	4.7%

Linkages to Global Agenda of Action

Concept and approach

- Thematic area 1: closing the efficiency gap
- Supports the piloting of new concept and generation of knowledge

Stakeholder participation

Broad stakeholder participation

- **Government:** Ministry of livestock development
- **Producer groups:** dairy farmers groups and dairy cooperatives
- **(international) private sector:** Investor and co-designer **Research:** ILRI, Kenyan Agriculture Research Institute
- **International organization:** FAO

Up-scaling

- Replication and scalability
 - Project based or embedded in National mitigation strategies (NAMA)
-



Conclusion

- ▶ Speed-up technology adoption through financing of mitigation packages
- ▶ Benefits to producer accruing from productivity gains: income, food security
- ▶ Co-benefits, financing the transition: cc mitigation
- ▶ Knowledge generation through “proof of concept” approach

