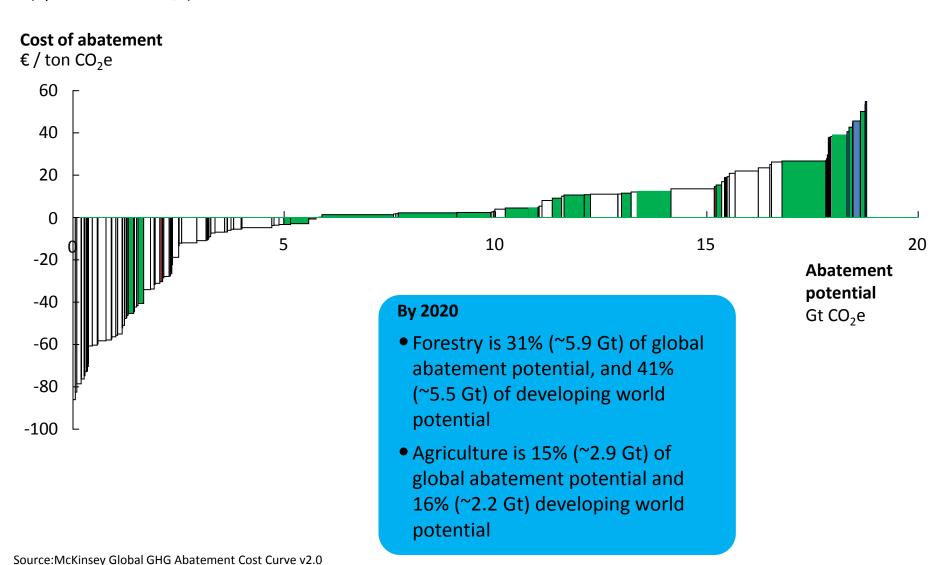


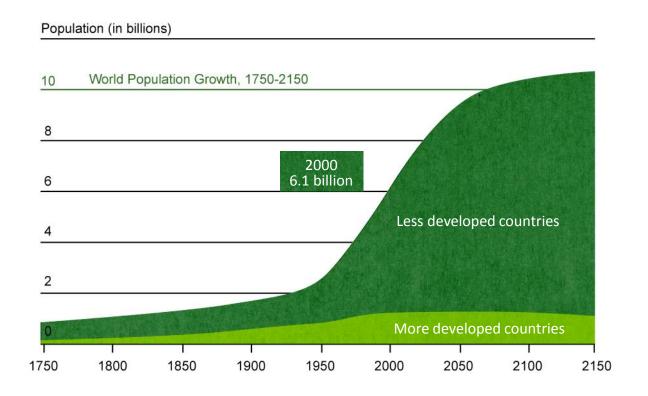
Forestry and agriculture account for 46% of potential global abatement

Global abatement cost curve, 2020

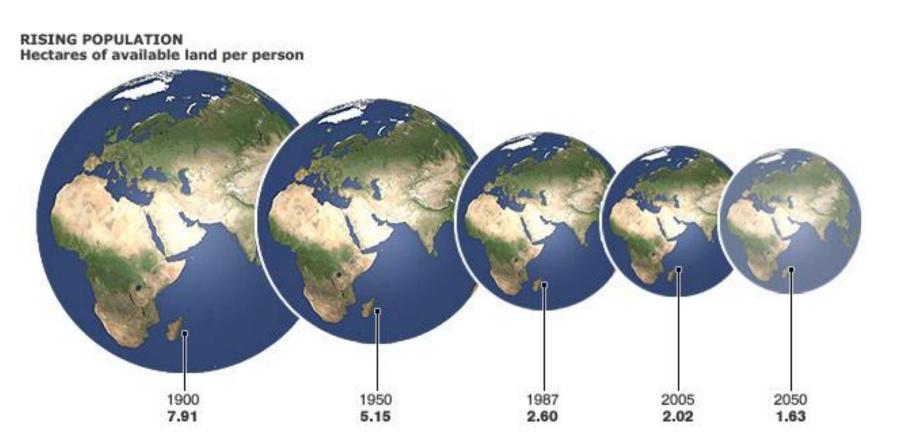
(up to costs of €60/t)



World Population Growth



Rising Pressure on Land-Use



The Other Half of the Equation The World's Rural Poor

Today: 3 billion: Tomorrow: 5-6 billion

• India: 850 Million

China: 750 Million

Other Asia: 700 Million

Africa: 600 Million

Latin America: 125 Million

Food Production Must Increase by 70% by Mid-Century

Food availability in the developing world must increase by 50%

Demand for Bio-Fuels will increase pressure on available land

The impacts of climate change will accelerate desertification and soil loss

3.6 billion of the world's 5.2 billion hectares of arable land are already eroded or degraded.

The Key REDD Issue is Land Use – Not Climate Change

80% of land-use change in the developing world is to produce food

(48% is for subsistence farming & 32% is commercial agriculture)

82 % of World Forest Product Demand is supplied by native forests

(18% is supplied by plantations)

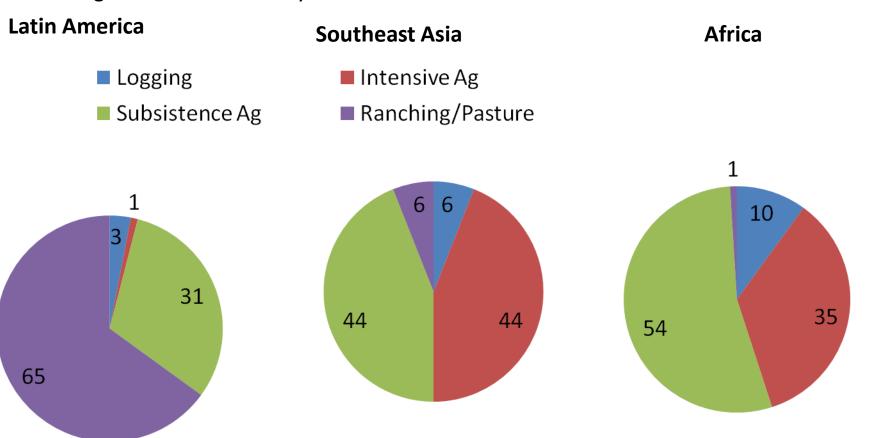
50% of Global Forest Harvest is for Fuel

(In sub-Saharan Africa 80% of energy is from wood)

The Drivers of Deforestation by Region

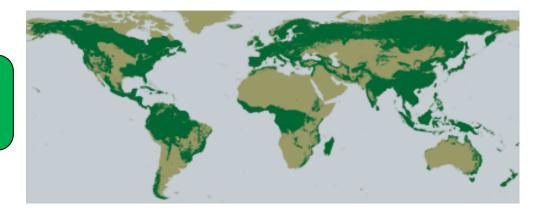
Fundamental Cause Poverty Unproductive land use

Percentage of deforestation by driver

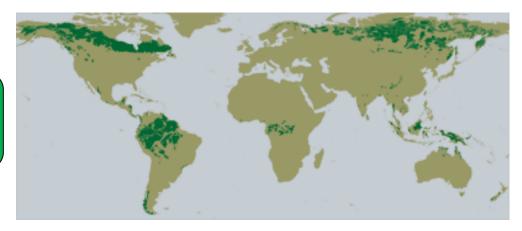


Tropical Forest Loss: From 1 billion to 6 billion people

Original forest



Remaining forest



Source: World Commission on Forests and Sustainable Development 1999

REDD is Not Enough

Increasing demand for forest <u>and</u> agricultural products <u>and</u> biomass energy must <u>all</u> be met.

Therefore:

Developing countries must be paid to sustainably manage their forests <u>and</u>

Increase in afforestation and reforestation and

Their farmers must dramatically increase productivity or

There will be no solution to global warming and no tropical forests.

The Answer is sustainable, integrated land policy, investment & management



Agriculture

- Prices driven by strong food and energy demand
- Growing need for capital in underdeveloped markets
- Significant productivity gains available in developing world



Forest management

- Increasing demand from rising population & living standards
- Growing recognition and demand for certified timber
- Continuing demand for fuel wood



Biofuels & Biomass Energy

- Increasing demand due to energy security issues and the need for renewable energy
- · Continuing regulatory mandates



Carbon

- Increasing demand for forestry carbon abatement expected due to scale, availability and low cost
- Recognition of importance of reduced deforestation (REDD)

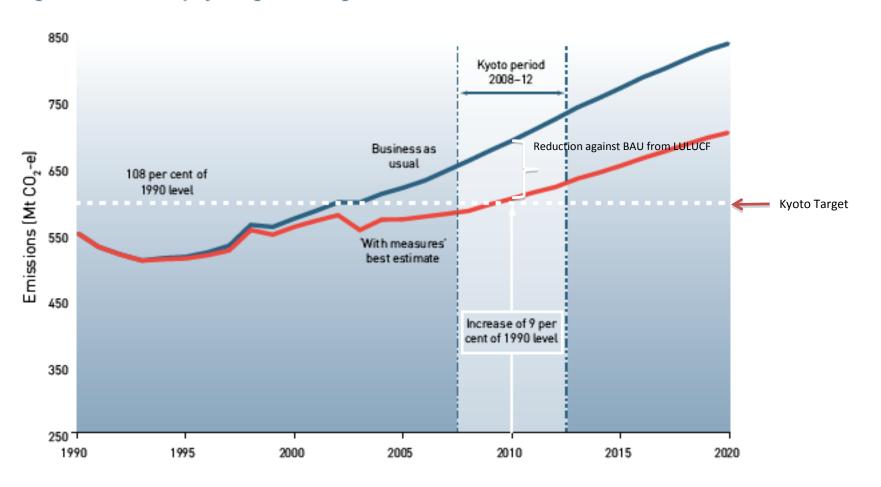


Eco-tourism

 Increasing demand for ethical and environmentally responsible leisure activities

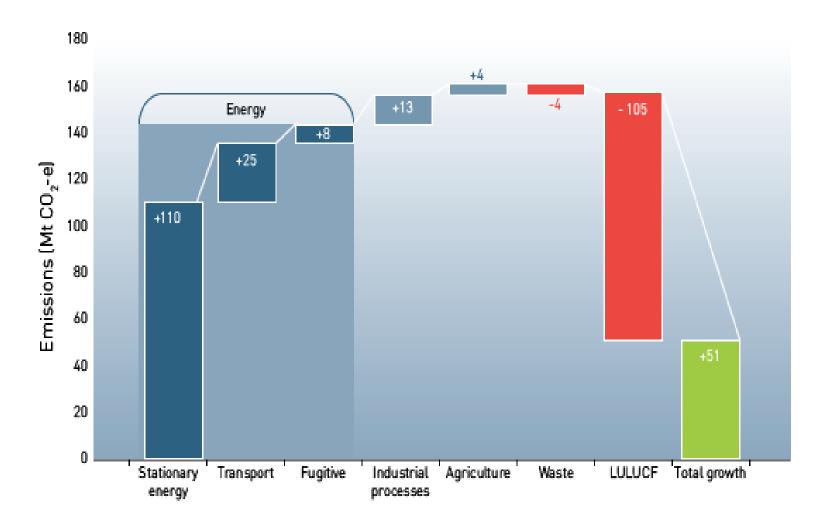
And Economic Growth: Australia – The Way Forward for the Developing World

Figure 2.4 Australia's projected greenhouse gas emissions



Australia: The Path to Low Carbon Growth Rising Industrial Emissions offset by Land-Based Carbon

Figure 2.5 Sectoral contribution to Australian emissions growth, 1990–2010



Co- Benefits are Necessary, Not Optional

- Watershed protection & restoration
- Control of soil erosion
- Local climate stability
- Poverty alleviation
- Biodiversity preservation
- Increased sustainable employment
- Climate adaptation



Methods of Rural Land Investment in the Developing World

Traditional: Single Commodity

Recent: Carbon Bet

Sustainable: Integrated Land Management: Forest Conservation, Agriculture, Plantations, Biomass, Bio-fuels and Eco-tourism

What is Required for REDD?

Public Sector

- National or Regional Land Use Planning
- Full Fungibility for all Land & Forest Credits (AFLOU)
- Removal of perverse incentives/subsidies
- Land Tenure rules and administration
- Fair treatment of foreign investors
- Enforceable Contracts
- Incentives equal to those for Clean Energy

What is Required for REDD

Private Sector

- Lobbying
- Risk Capital
- Up-front Financing
- Structured Finance
- Transfer of Management Skills
- Commercialisation of products