

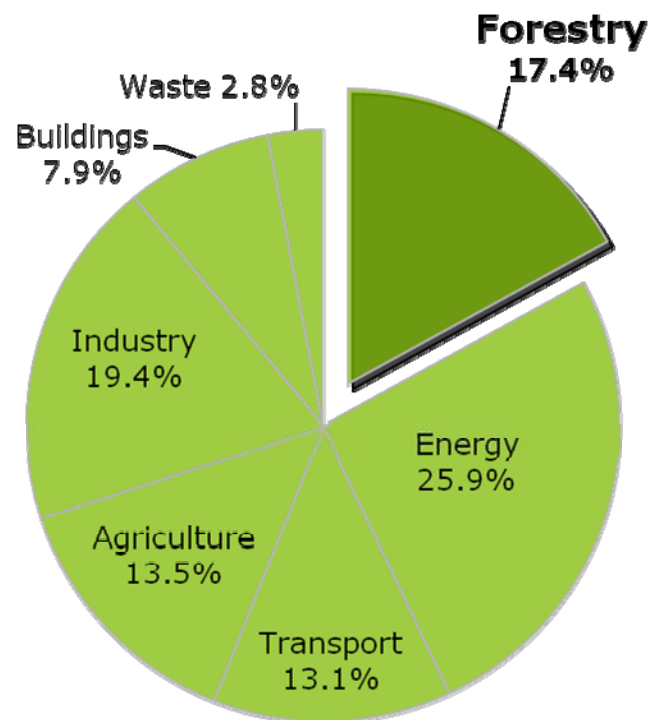
# Climate Change: Financing Global Forests

Published 14<sup>th</sup> October 2008 at [www.occ.gov.uk](http://www.occ.gov.uk)

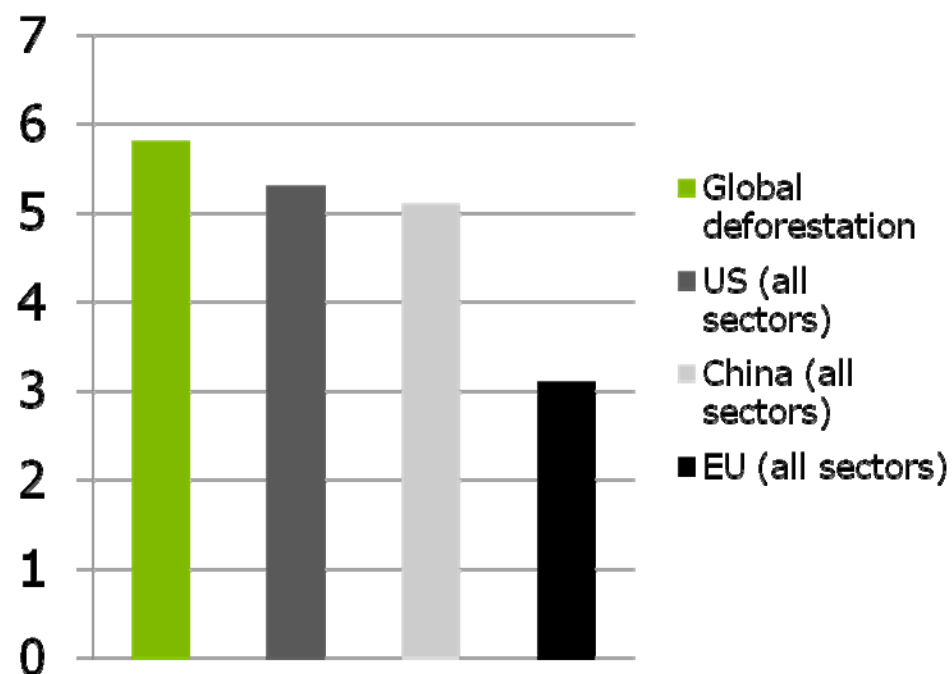


# Emissions from forests are significant...

**Global GHG emissions by sector**



**Annual CO<sub>2</sub> emissions (GtCO<sub>2</sub>)**



## The vision: what needs to be done

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**A step change in how  
land is used and  
commodities produced**

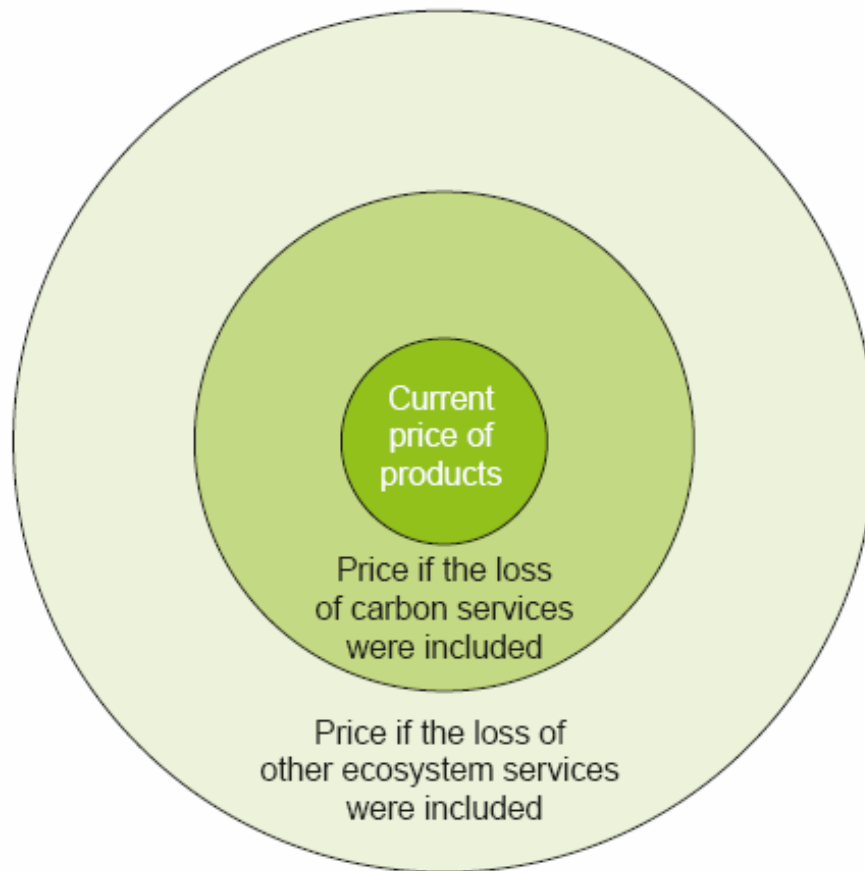
**Forests more valuable  
standing than cut**

- More efficient and sustainable agricultural production
- Sustainable plantations and forest management
- Infrastructure expansion properly managed
- Alternative employment opportunities
- Protected areas with full participation of communities
- Payments for ecosystem services
- Sustainable biofuels

# Some key policy challenges need to be addressed in realising the vision...



## Price of products from deforested land



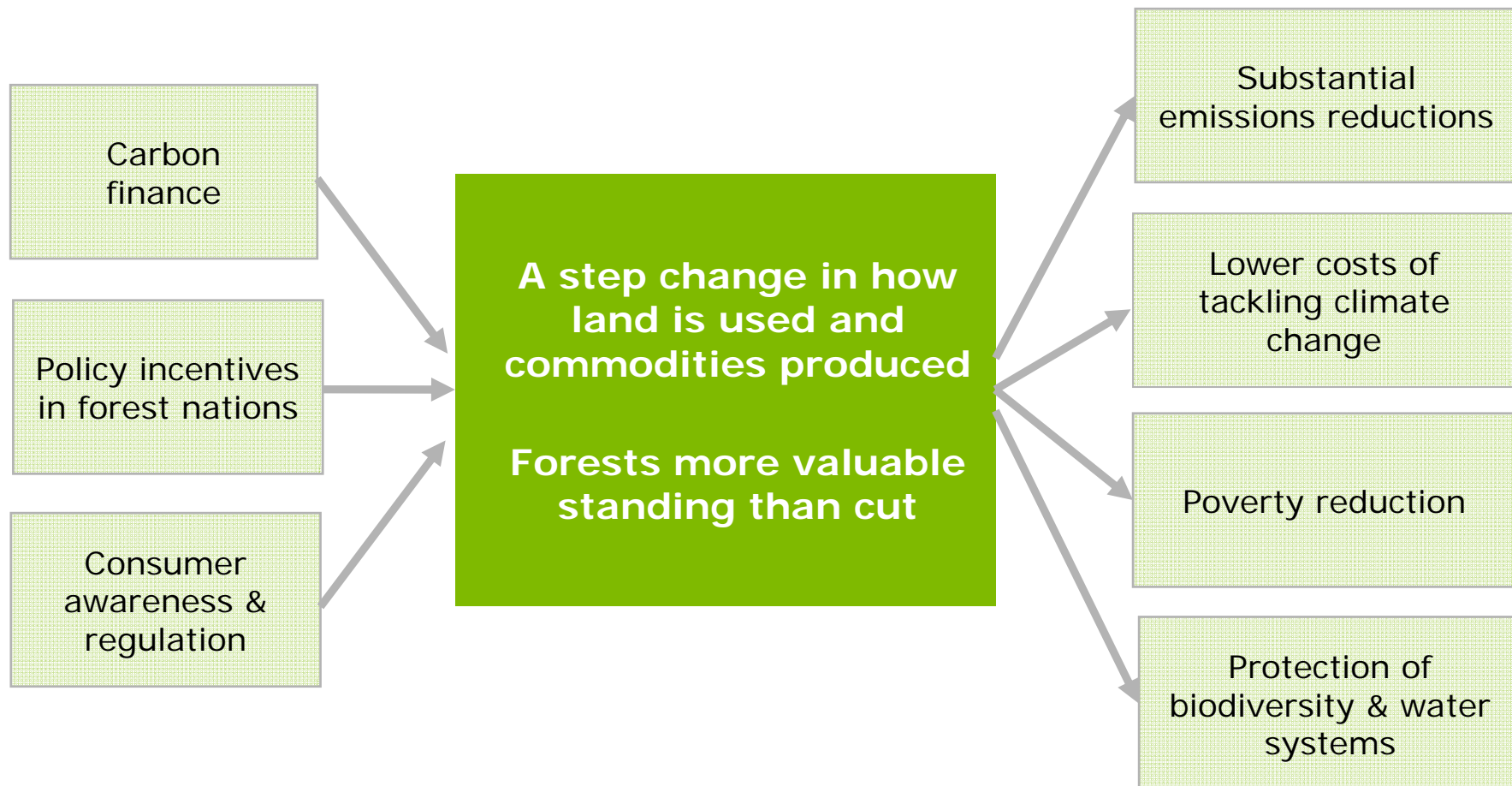
- The social and environmental costs of deforestation are not reflected in the price of timber and agricultural products (i.e. **externalities**)
- **Subsidies** and other policies in producer nations further incentivise deforestation
- **Unsustainable purchasing practices** in consumer countries provide yet more incentive to deforest

# Delivering the vision

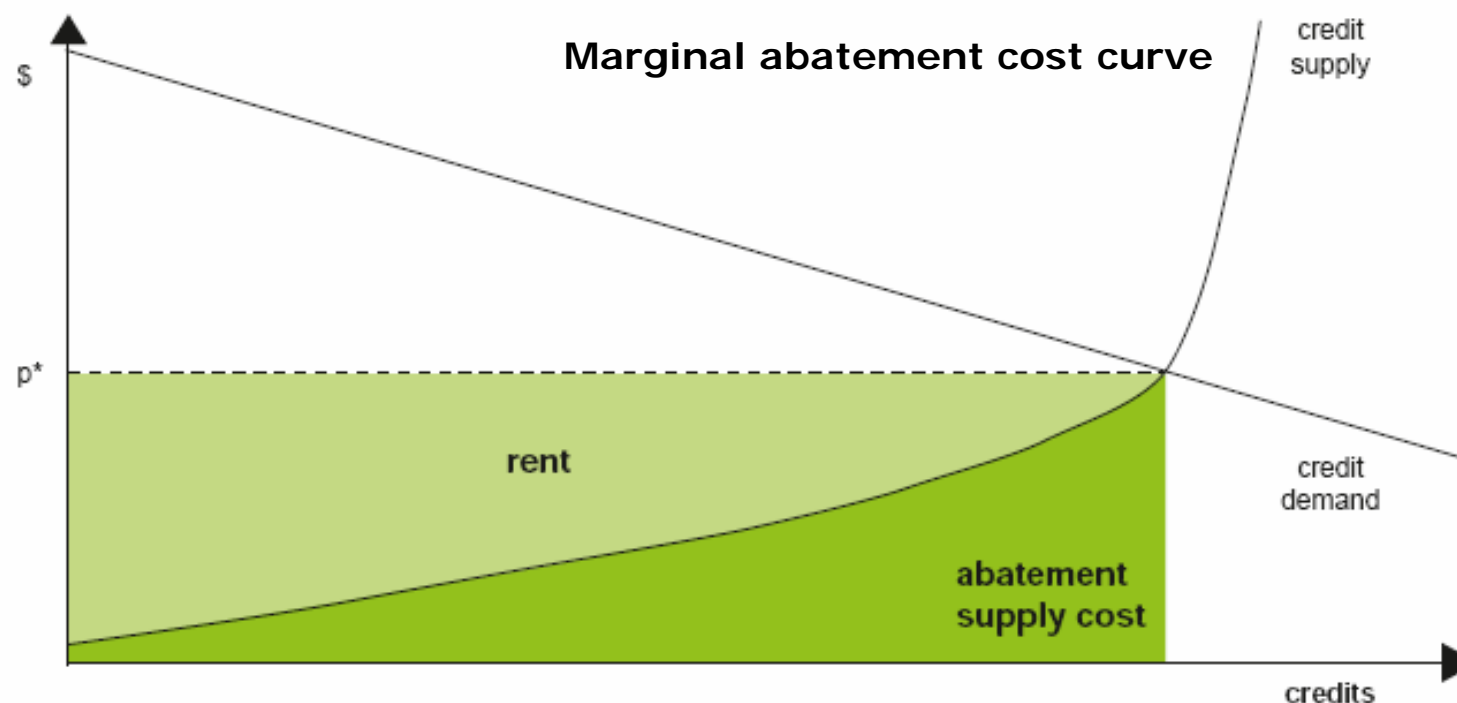


## How do we deliver this?

## The benefits



## How much could it cost?

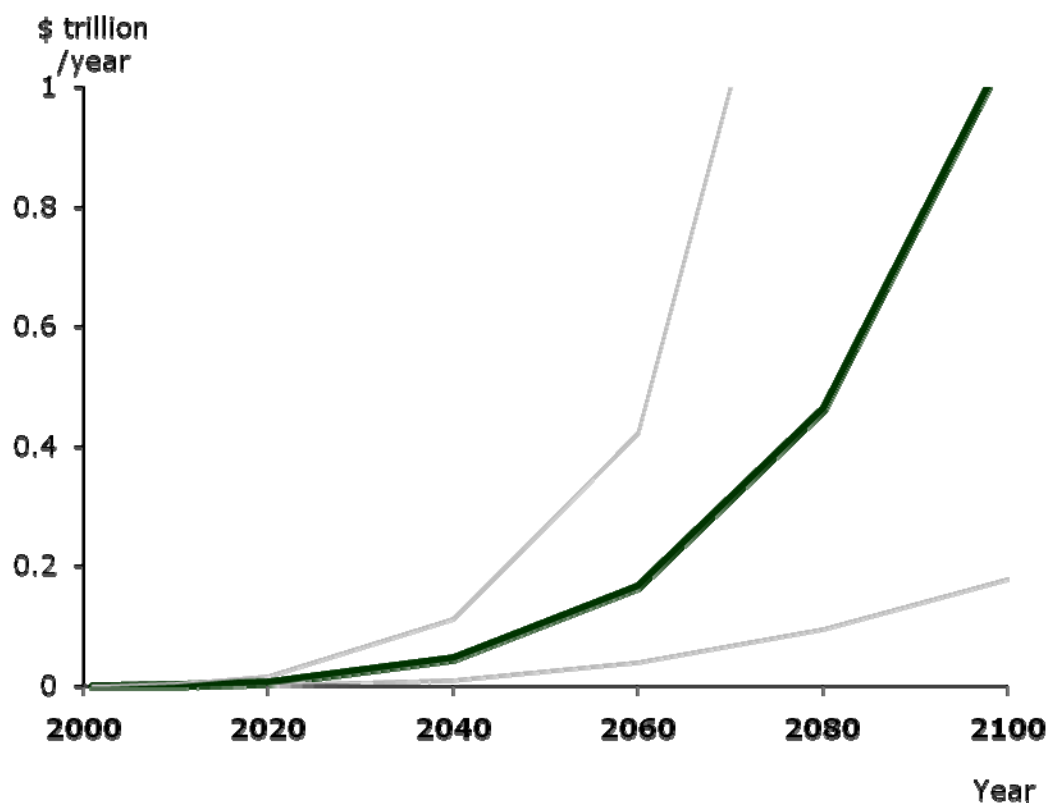


- An update of the 'bottom-up' *opportunity cost* estimate for the Stern Review gives around \$7 billion per year for halving global deforestation (no rent)
- On the basis of global land-use model results, the Eliasch Review estimates the *cost of purchasing* forest credits on the open credit market sufficient to halve deforestation to 2030 at \$17-33 billion per year (includes full rent)

# The benefits of taking action outweigh the costs...



Effects of deforestation on climate change could lead to additional global damages of \$1 trillion a year by 2100



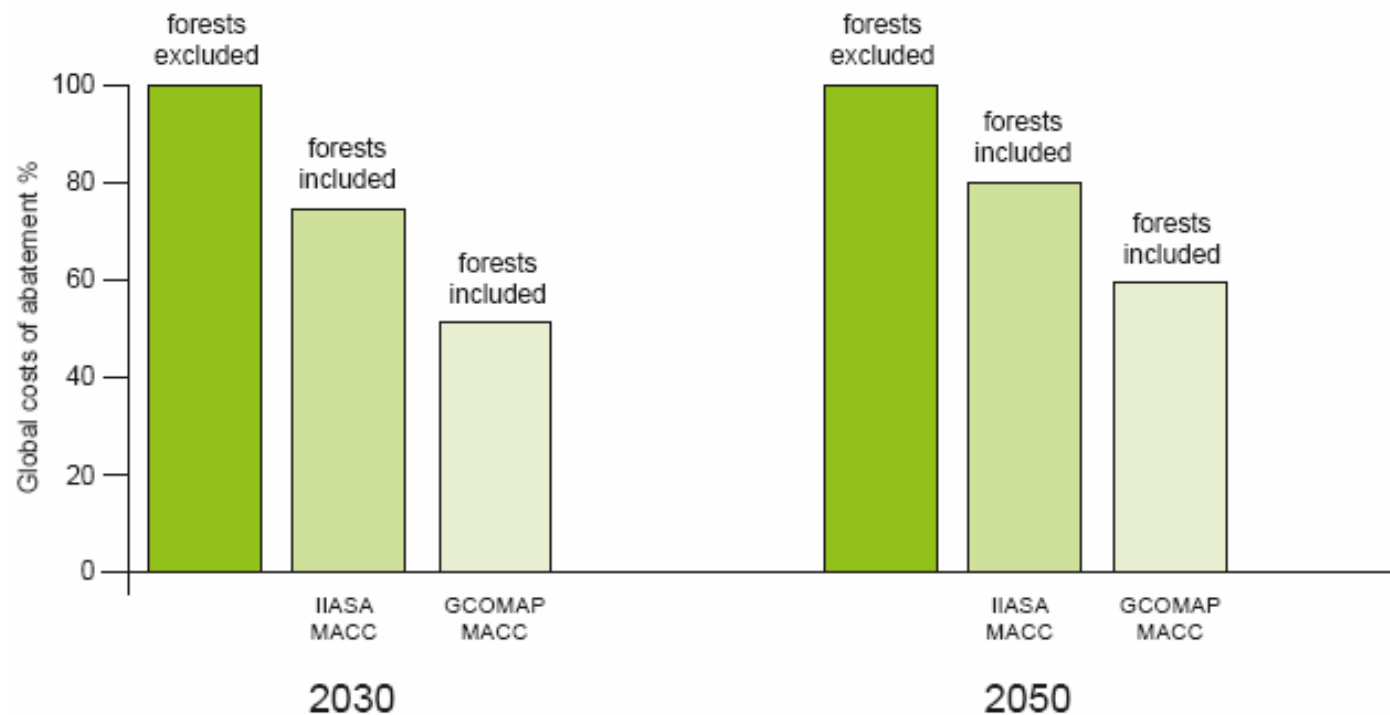
## The benefits of abating forest emissions

- Reducing forest emissions by 50% gives a mean net benefit of around **\$3.7 trillion** (NPV of climate change damages minus mitigation costs)
- The net benefit increases to **\$6.3 trillion** if forest emissions are reduced by 90%

# In the long term, the forest sector should form part of a global cap and trade system

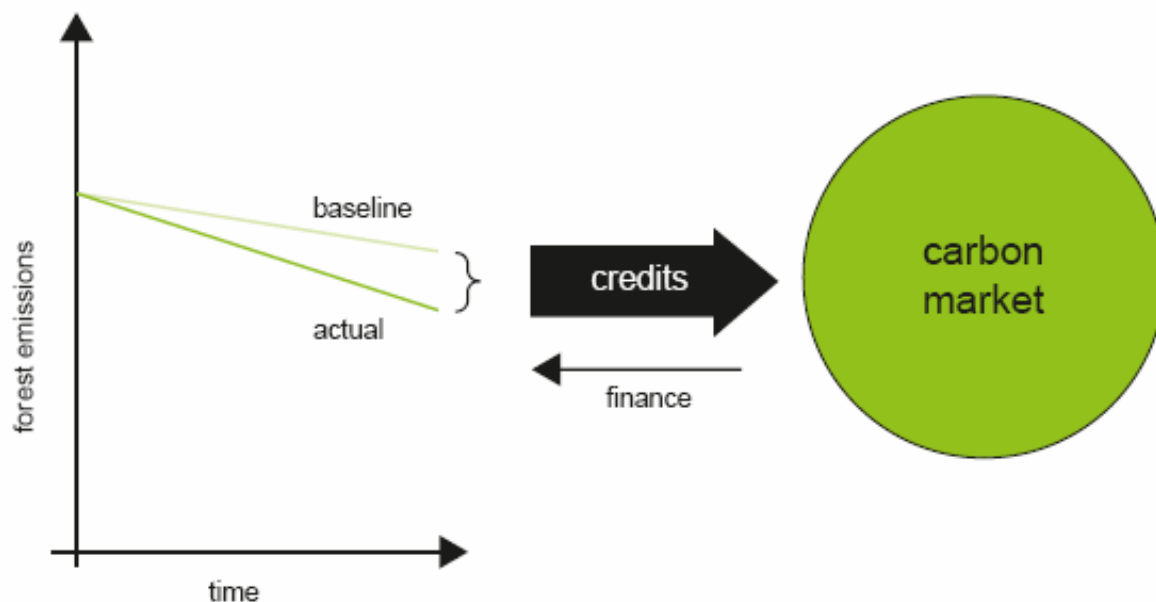


- Including the global forest sector in a well-designed cap and trade system could make it carbon neutral by 2030 (**3.5 GtCO<sub>2</sub> of abatement**)
- Including forests could **reduce global costs** of climate change mitigation by up to 50% in 2030 and by up to 40% in 2050



- This could enable an **extra 10% reduction** in global CO<sub>2</sub> emissions in 2050.

In the transition, four building blocks will be essential to access carbon finance...



### 1. Effective targets

National baselines, inclusive of all countries

### 2. Robust measuring

Forest credits based on real reductions in forest emissions

### 3. Linking to carbon finance

Carbon markets and other funding initiatives

### 4. Governance

International standards and full participation of forest communities

# 1. Targets that minimise leakage and maximise additionality

## National level

- Prevents intra-national leakage
- Activates government policy levers
- Reduced transaction costs

## Inclusive

To reduce international leakage, targets should incentivise both high and low deforesting nations

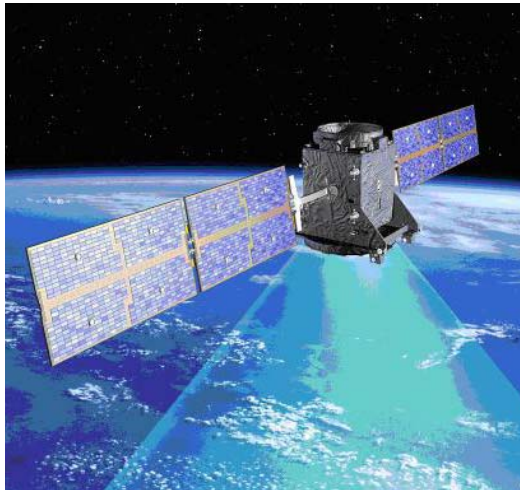
Should also be simple & transparent

## Additional

Baselines should diminish over time:

- Emissions are projected to decline as forests disappear
- Forest nations to take on greater commitments

## 2. The development of robust measuring and monitoring capabilities

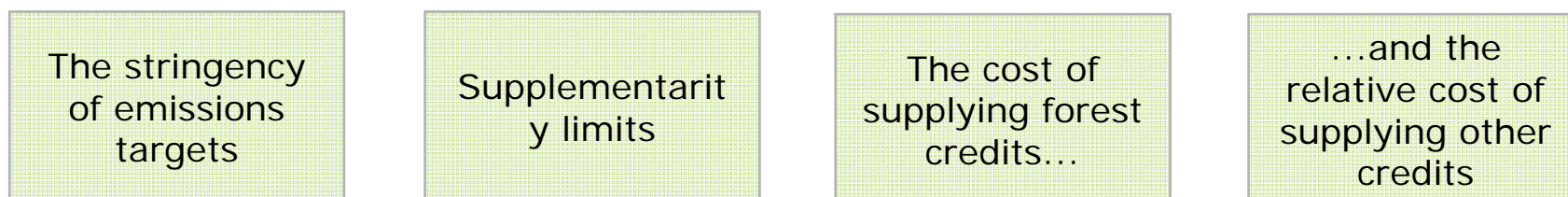


- Forest emissions can be estimated with **similar confidence** to emissions from other sectors.
- However, **capacity building** is needed in many countries to realise this in practice. The Eliasch Review estimates that for 25 forest nations, a total of around \$50 million will be needed in set-up costs. A further \$7-17 million would be needed for annual running costs.
- While capacity is developing, **conservative estimates** should be used.
- There should be **verification** of emissions reductions, just like for Annex I countries.

### 3. Linking to carbon markets

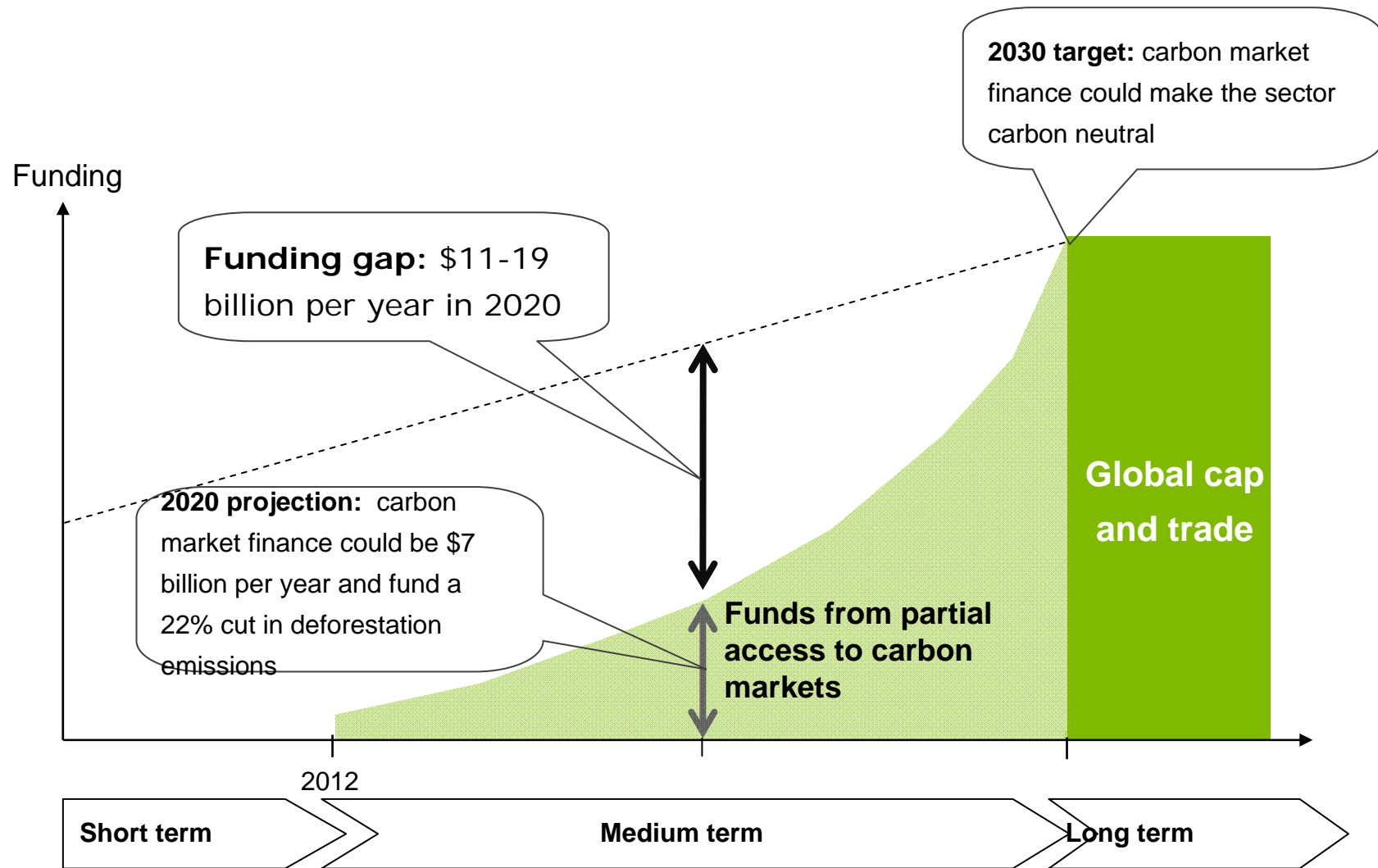
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- The impact of forest credits on carbon markets will depend on **four variables**:

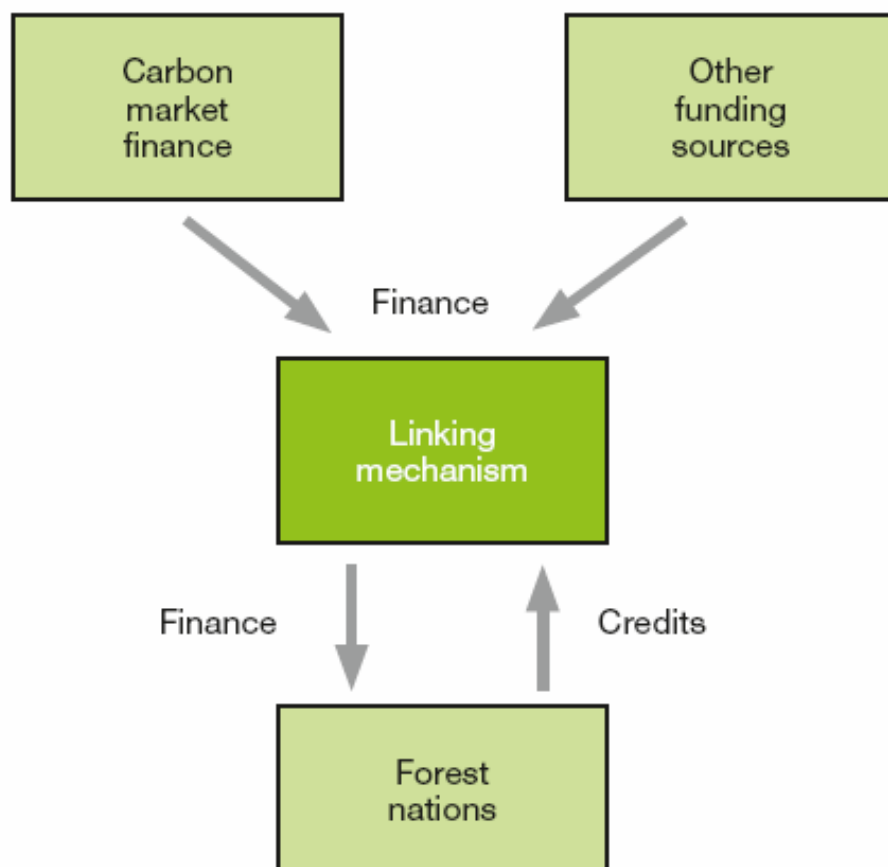


- Modelling suggests that if supplementarity limits are set at 50% or lower in phase III of the **EU ETS**, then admitting forest credits to the international credit market will have little or no impact on the EU carbon market price.
- There would, however, be an impact on the **international credit market** unless global emissions targets are tightened or supplementarity restrictions loosened on forest credits being admitted. Without such adjustment, forest credits would displace some more expensive abatement in other sectors.

This could leave a funding gap in the medium term...



# A linking mechanism could combine different funding sources and perform other functions



## A linking institution could perform three functions:

- **Aggregate** different sources of funding
- Manage the risk of reversal of emissions reductions using a **reserve of credits**
- Reduce the risk of investment in emissions abatement for forest nations by guaranteeing a **minimum price** for credits

## 4. Good governance will be needed for forest abatement efforts to succeed...



### Good Governance

#### National level

- Full participation of forest communities will make reforms more likely to succeed and benefit the poor
- UN Declaration on the Rights of Indigenous Peoples (Articles 18 & 19)

#### International level

- Reporting on policies and measures, as for Annex I countries
- Financial transparency, like the Extractive industries Transparency Initiative

# Immediate action: mobilising international funds for capacity building



## Research & analysis

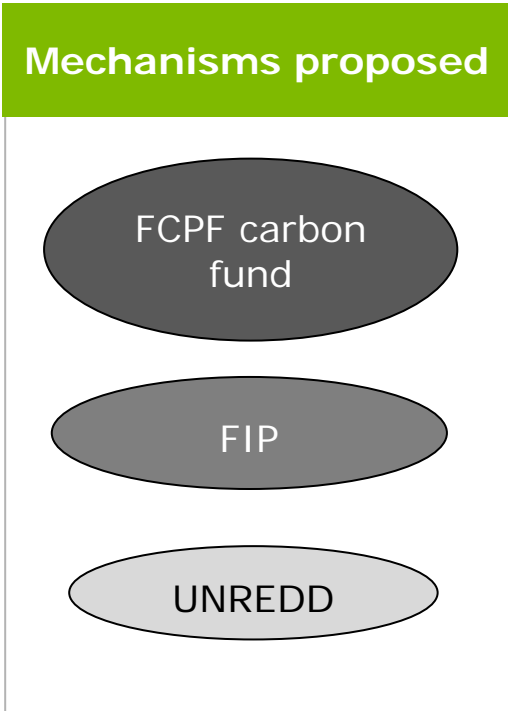
- National drivers of deforestation
- Solutions and strategies
- Development of baselines

## Policy reforms

- Reform of policy and legal framework
- Land tenure reform
- Measuring and monitoring capability
- Institutional strengthening

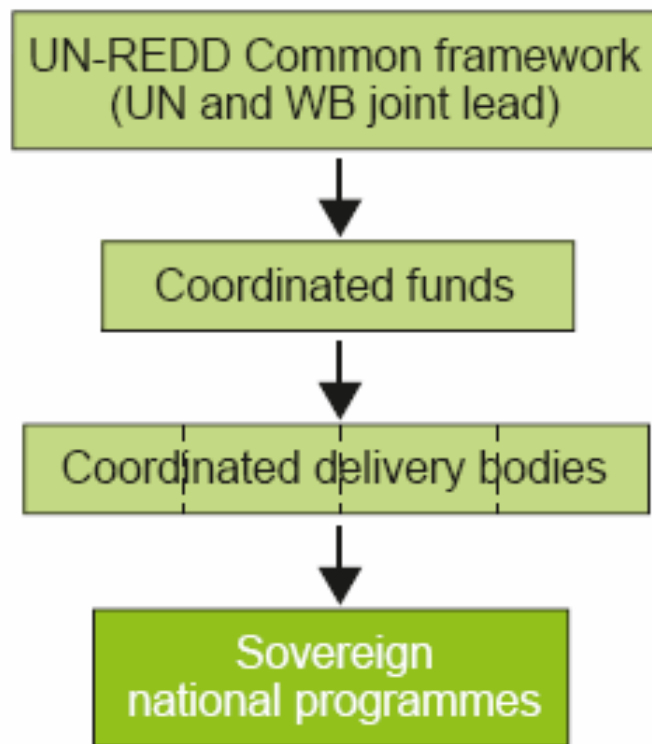
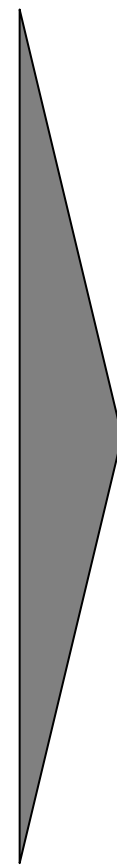
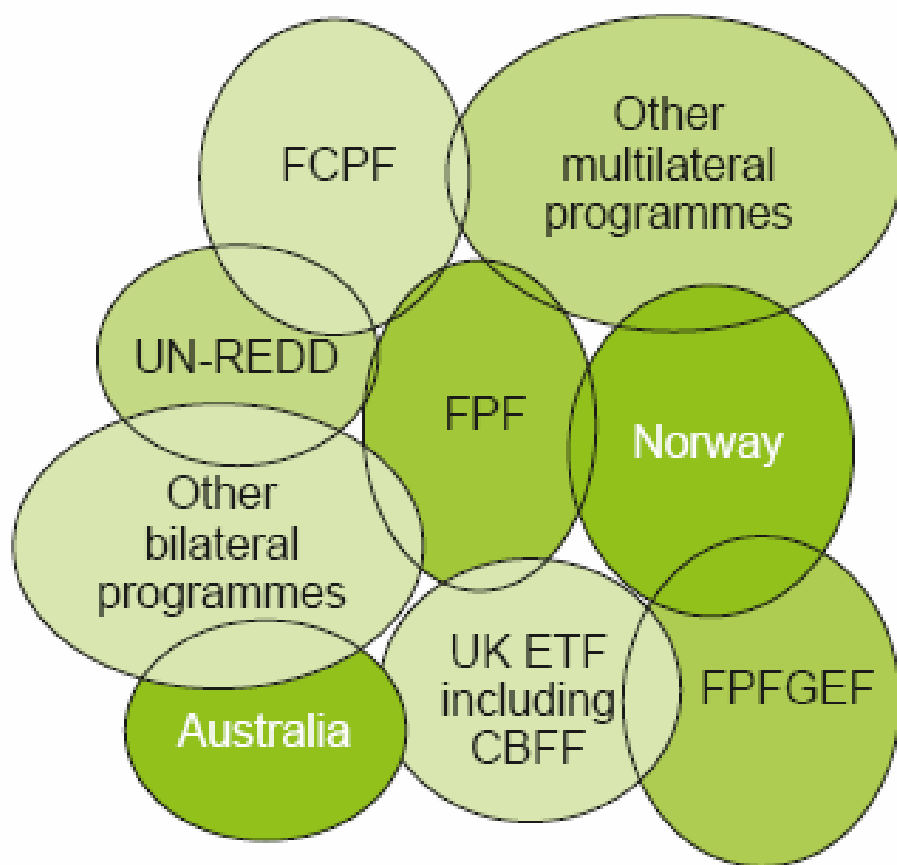
## Investment in early action

- Demonstration activities
- Major practical programmes



**Capacity-building costs estimated at up to \$4 billion over 5 years**

International coordination will be needed if support is to be efficient and effective...



## Key Eliasch Review recommendations

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- The international community should aim to support forest nations to **halve deforestation by 2020 and make the global forest sector carbon neutral by 2030**, with emissions from forest loss balanced by new forest growth.
- The global forest sector should be **fully included in any post-2012 deal** at Copenhagen.
- **Forest nations should develop their own strategies** to combat deforestation, including establishing baselines, targets and effective governance and distribution of finance.
- Access to finance from **carbon markets as well as funding from other initiatives** will be required.
- The international community should provide **support for capacity building**. Total capacity building costs are up to \$4 billion over 5 years for 40 forest nations.

Any questions?

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REVIEW

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