

# Forestry in the Land Use Equation

Mart-Jan Schelhaas  
Alterra, Wageningen



# Approach in MEACAP:

- First screening of all possible measures, grouped in:
  - Article 3.3 Afforestation, Deforestation
  - Article 3.4 Forest management
  - Bio-energy options
- Quantification of selected measures
- Biodiversity effects of selected measures
- Advice on inclusion of measures in the CAP

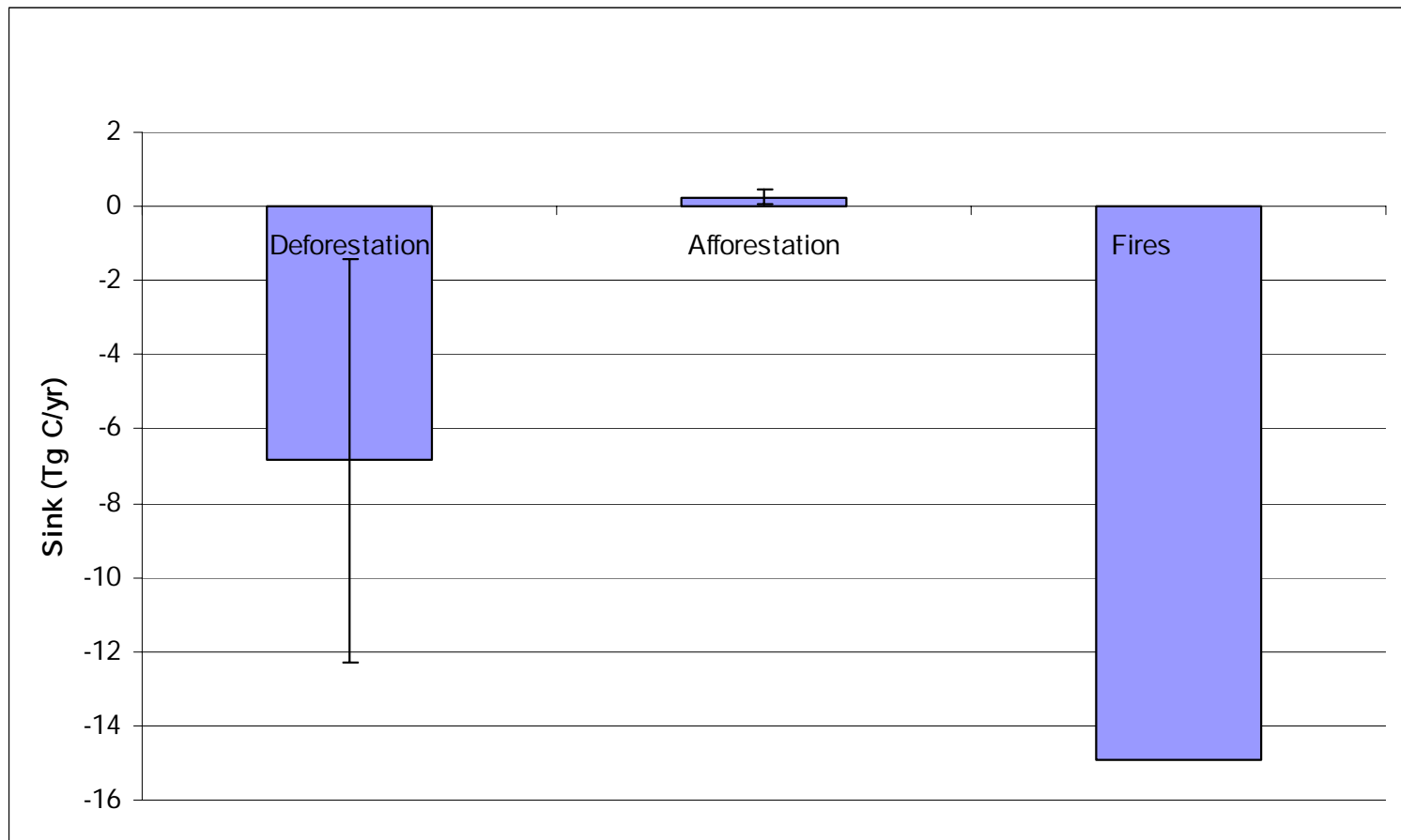


# Afforestation

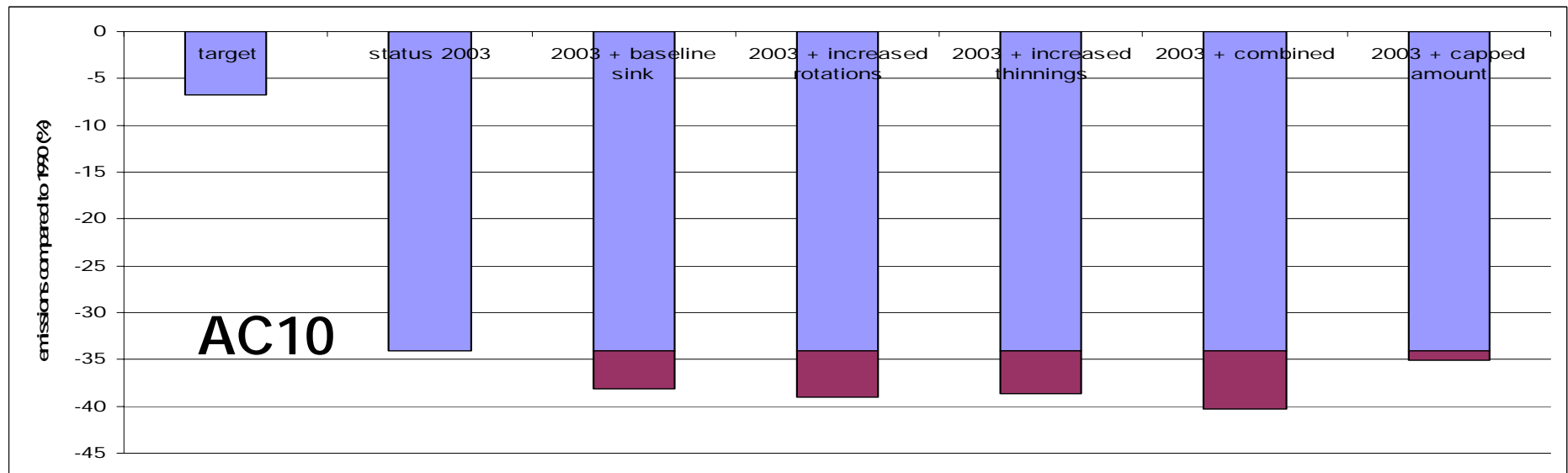
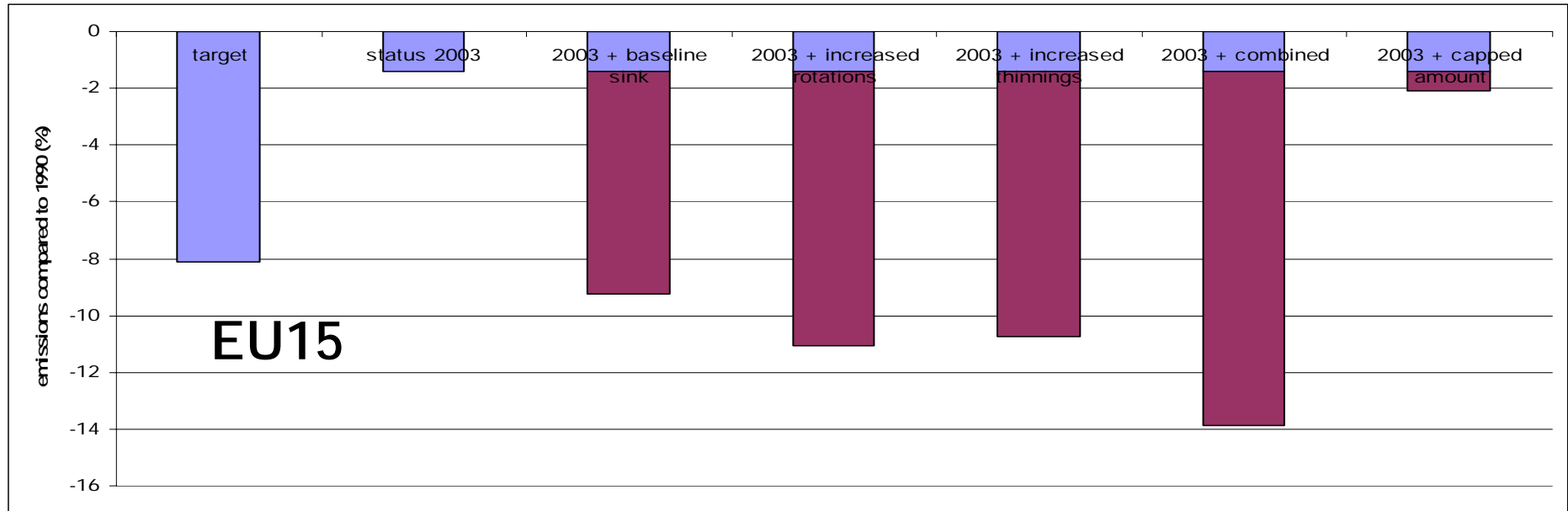
- Currently 0.4 million ha per year net increase of forest area
- Scenario projections 0.07-0.6 million ha per year gross afforestation
- Depends largely on competition with bioenergy crops
- Multi-functional forests, not for carbon only
- Slow sink, but sustained for a long time



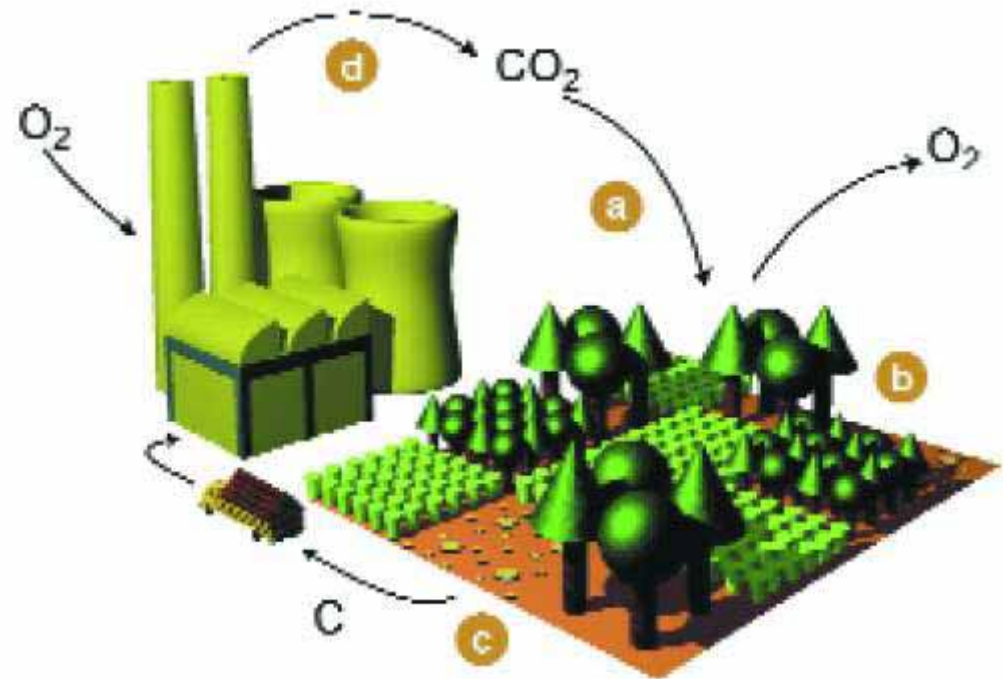
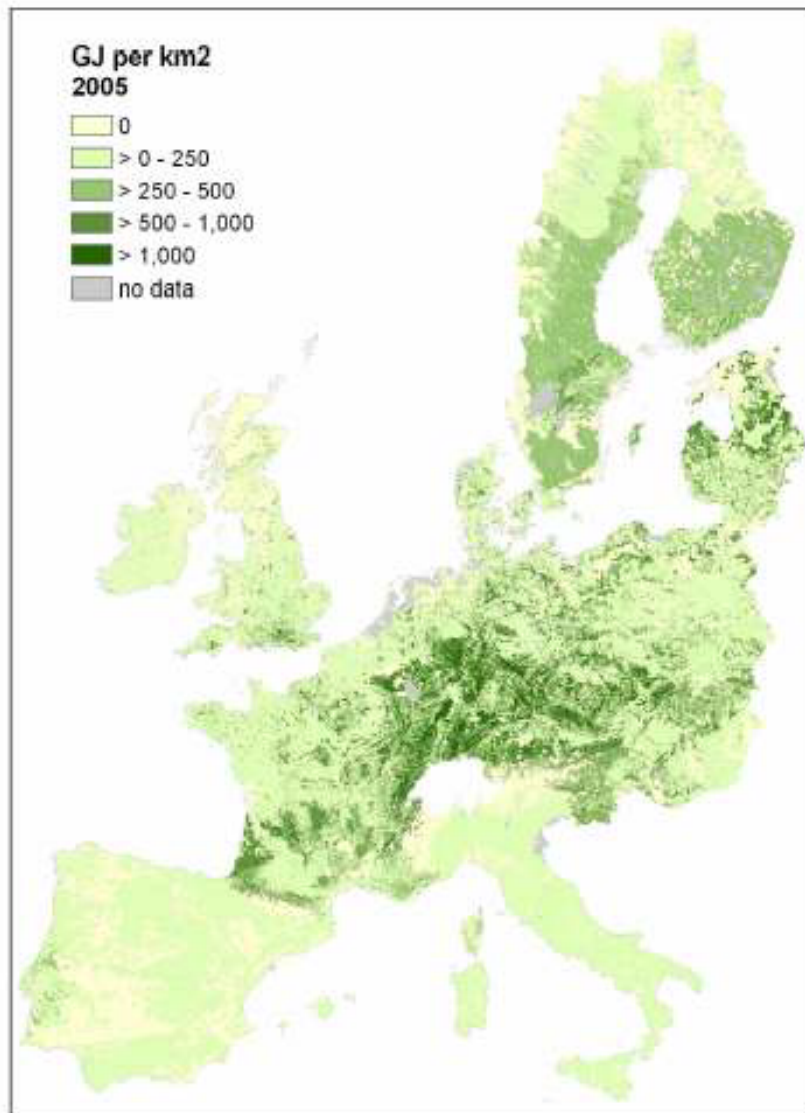
# Contribution of Art. 3.3 categories and forest fires



# Article 3.4



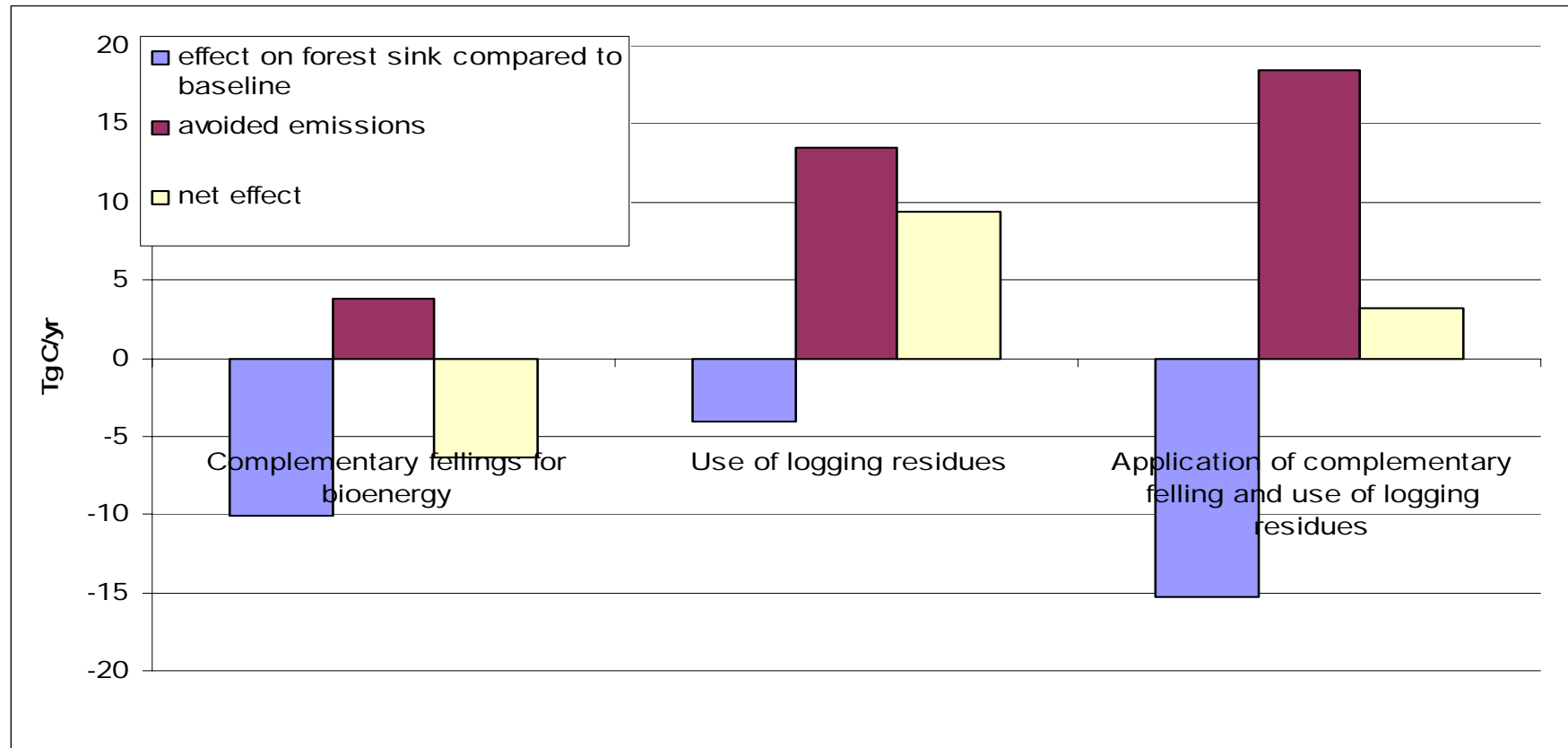
# Potential for bio-energy



EEA 2007: Environmentally compatible bio-energy potential from European forests.



# Potential for bio-energy



# Biodiversity evaluation

- Avoiding deforestation: positive
- Afforestation: positive if planned carefully
- Forest management measures: positive
- Fire risk measures: should be carefully planned
- Bio-energy extraction: possibly conflicting (intensive management)



# Observations

- Afforestation is slow sink, but good in long run
- Fighting deforestation and fires can reduce emissions
- Art. 3.4 measures are capped, but can be good for the atmosphere and biodiversity
- Bio-energy options seem most promising, but may conflict with biodiversity
- Europe is heterogeneous: Measures will need to be regionalised



# What to do with the CAP?

- Most measures seem to be outside the influence of the CAP
- Keep or increase afforestation subsidies
- Support price for biomass extraction for bio-energy?
- Don't expect too much, at least not in the short term...





Thank you !