

Exploring Negative Emissions Potentials – A Global Perspective

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Analysis*

Bioenergy, CCS and BECCS Options for
Indonesia

Jakarta, 21. September 2012

Obersteiner, M., Ch Azar, P. Kauppi, K. Möllersten, J. Moreira, S. Nilsson, P. Read, u. a.
„Managing climate risk [3]“ . *Science* 294, Nr. 5543 (**2001**): 786-787.



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Interim Report

IR-02-042

Biomass Energy, Carbon Removal and Permanent Sequestration — A ‘Real Option’ for Managing Climate Risk

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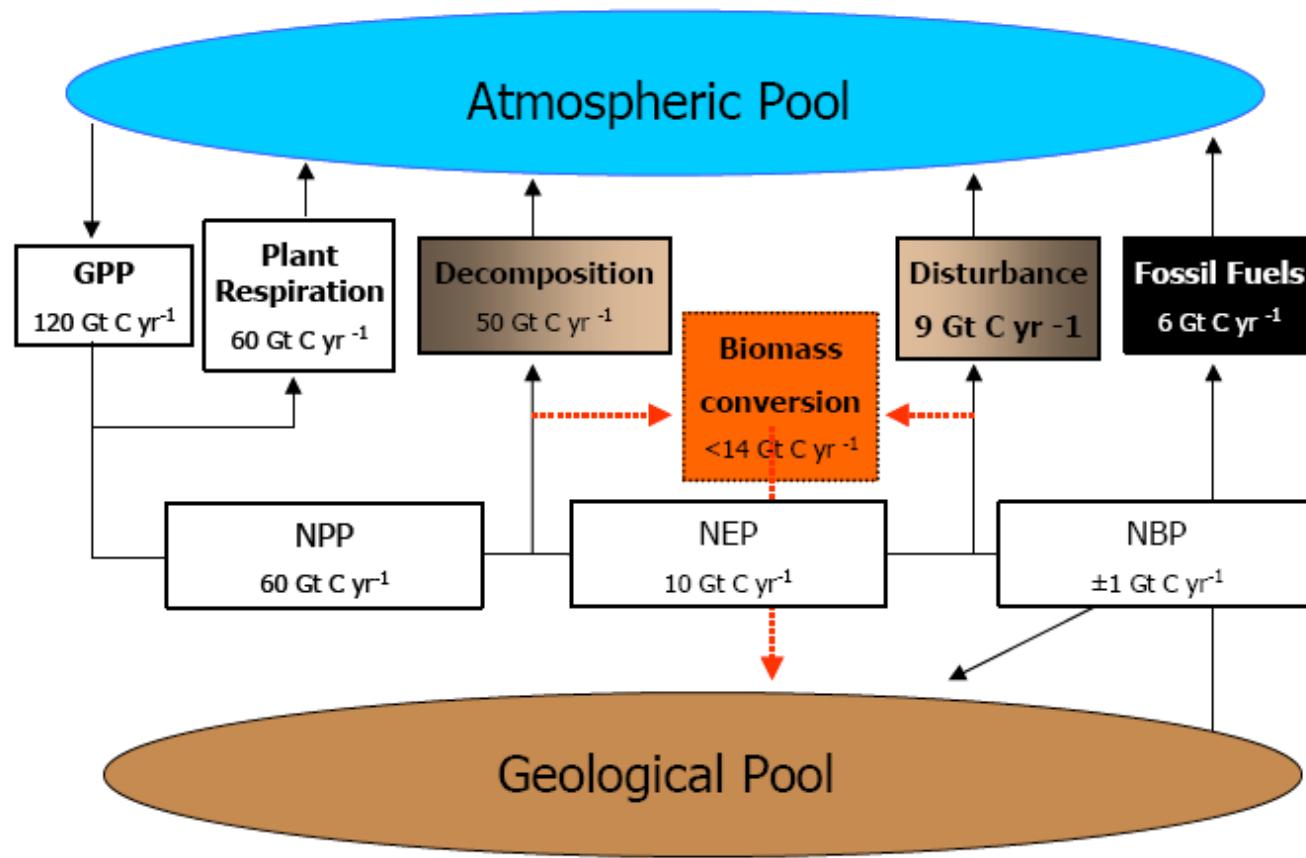
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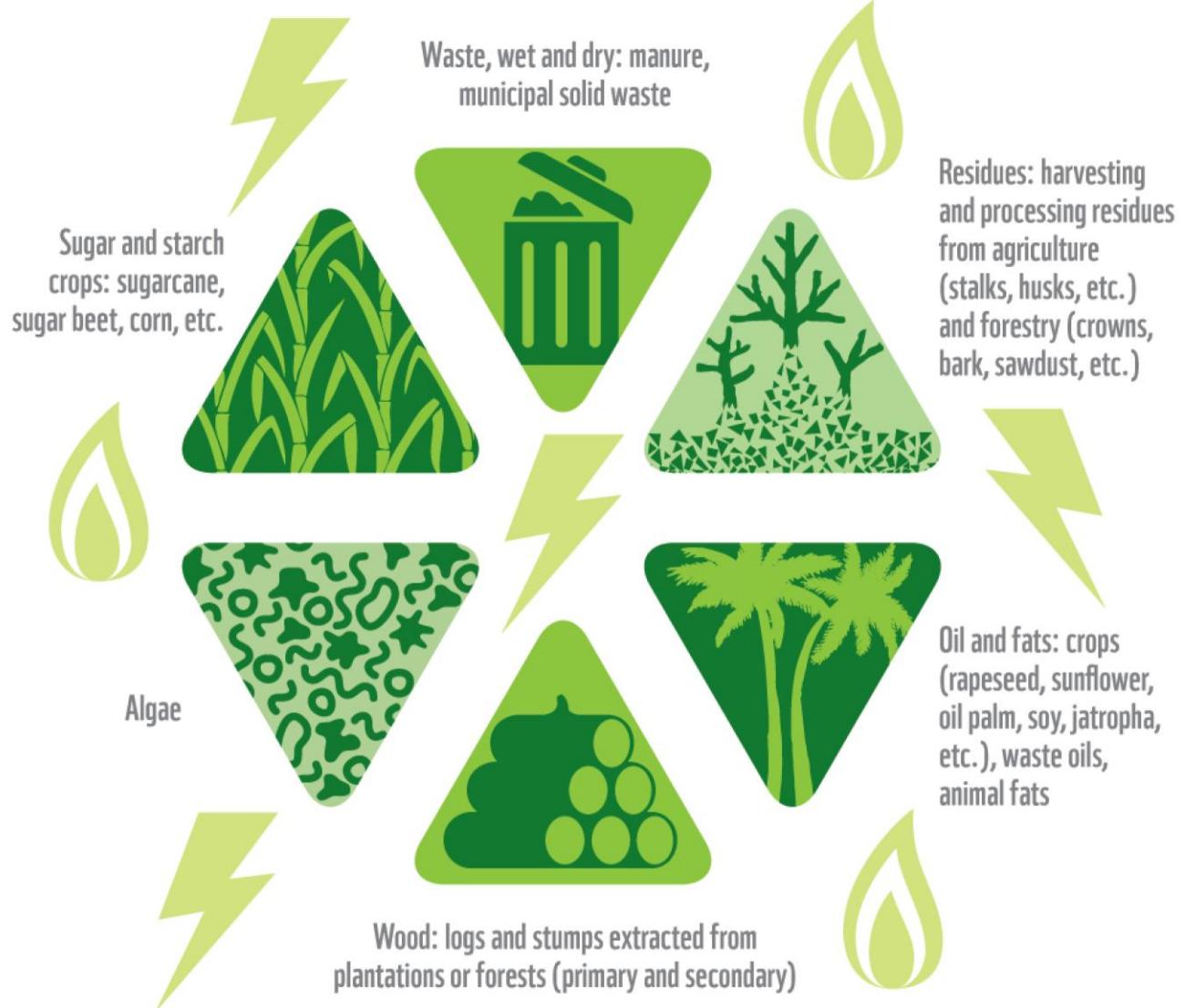
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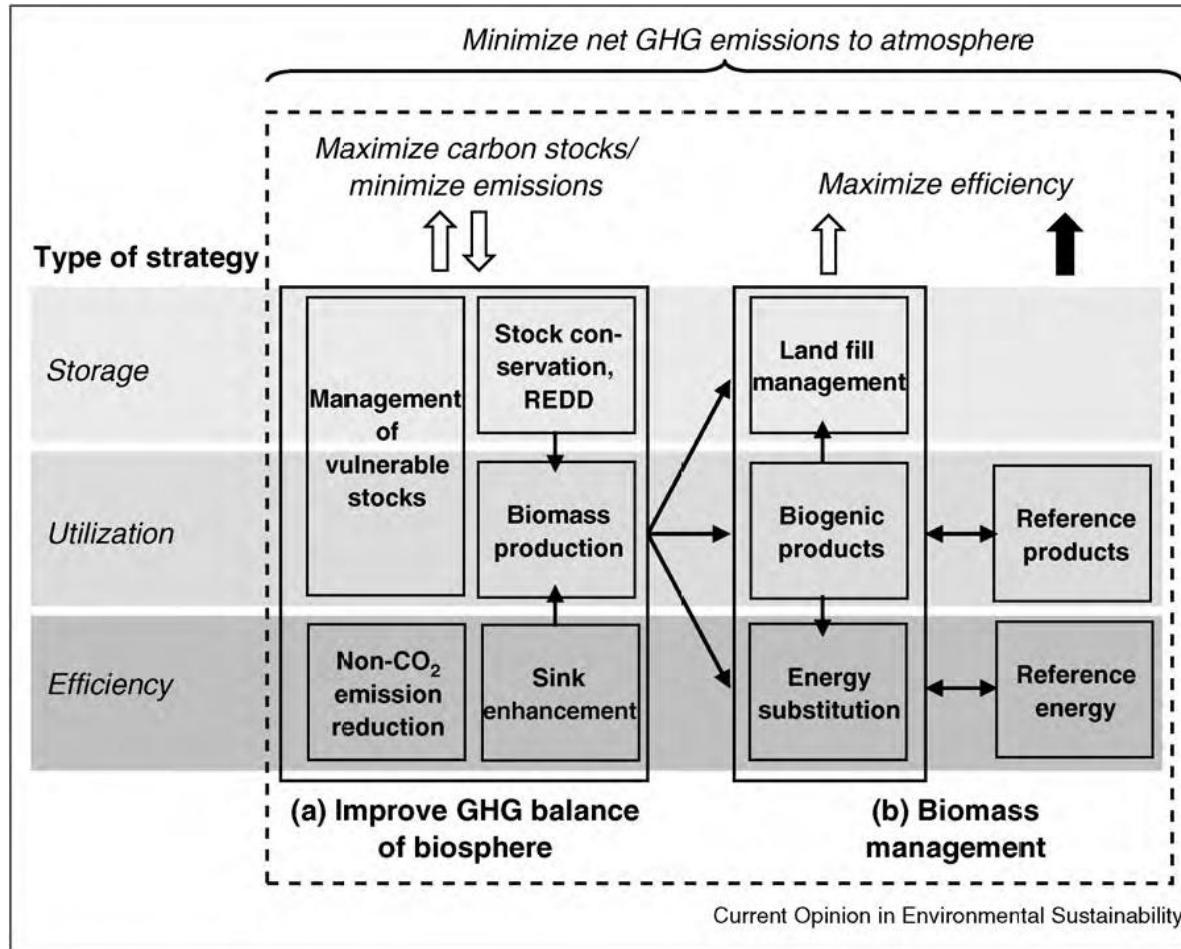
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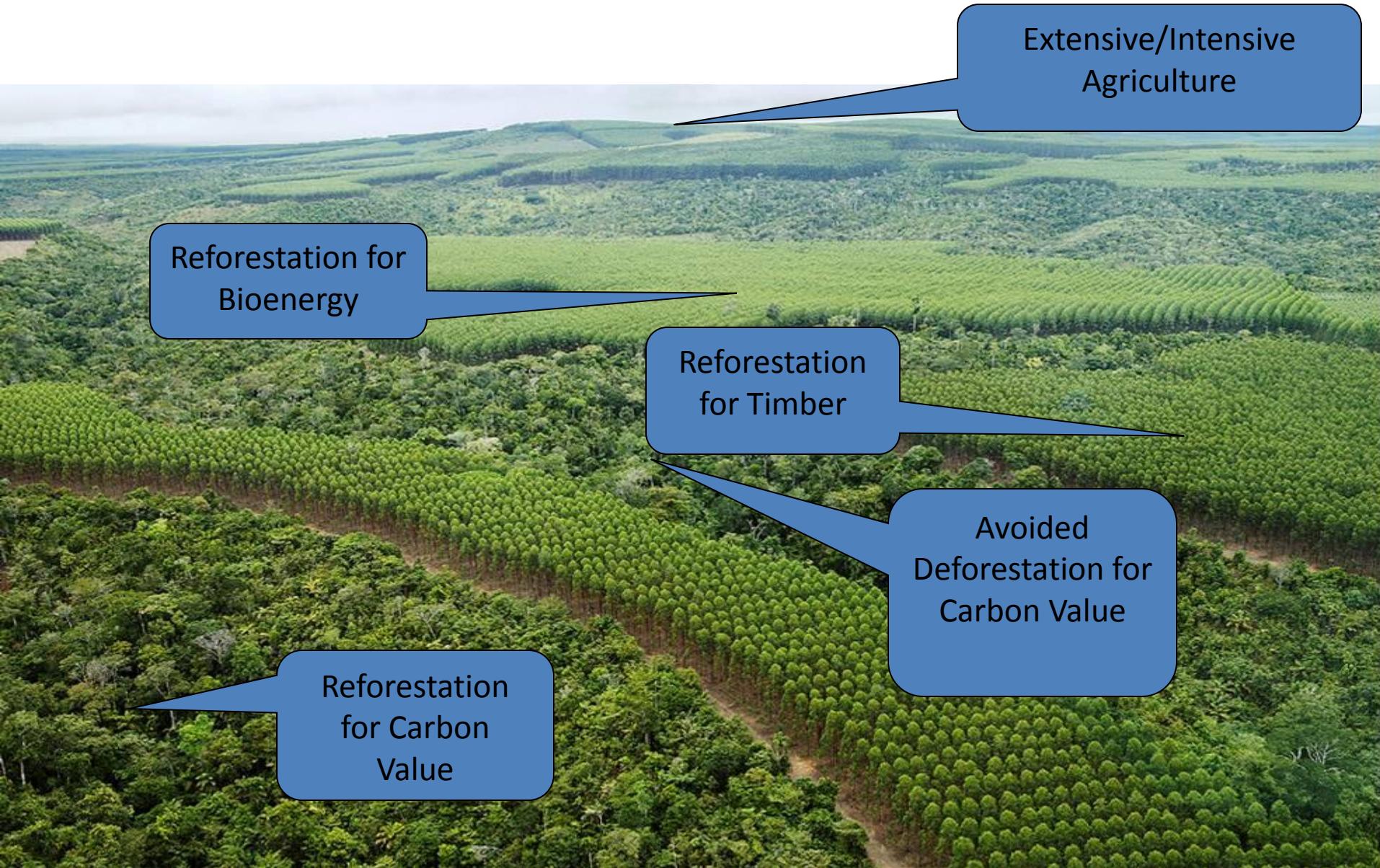


Overview of principle pathways and strategies of ecosystem management for climate change mitigation

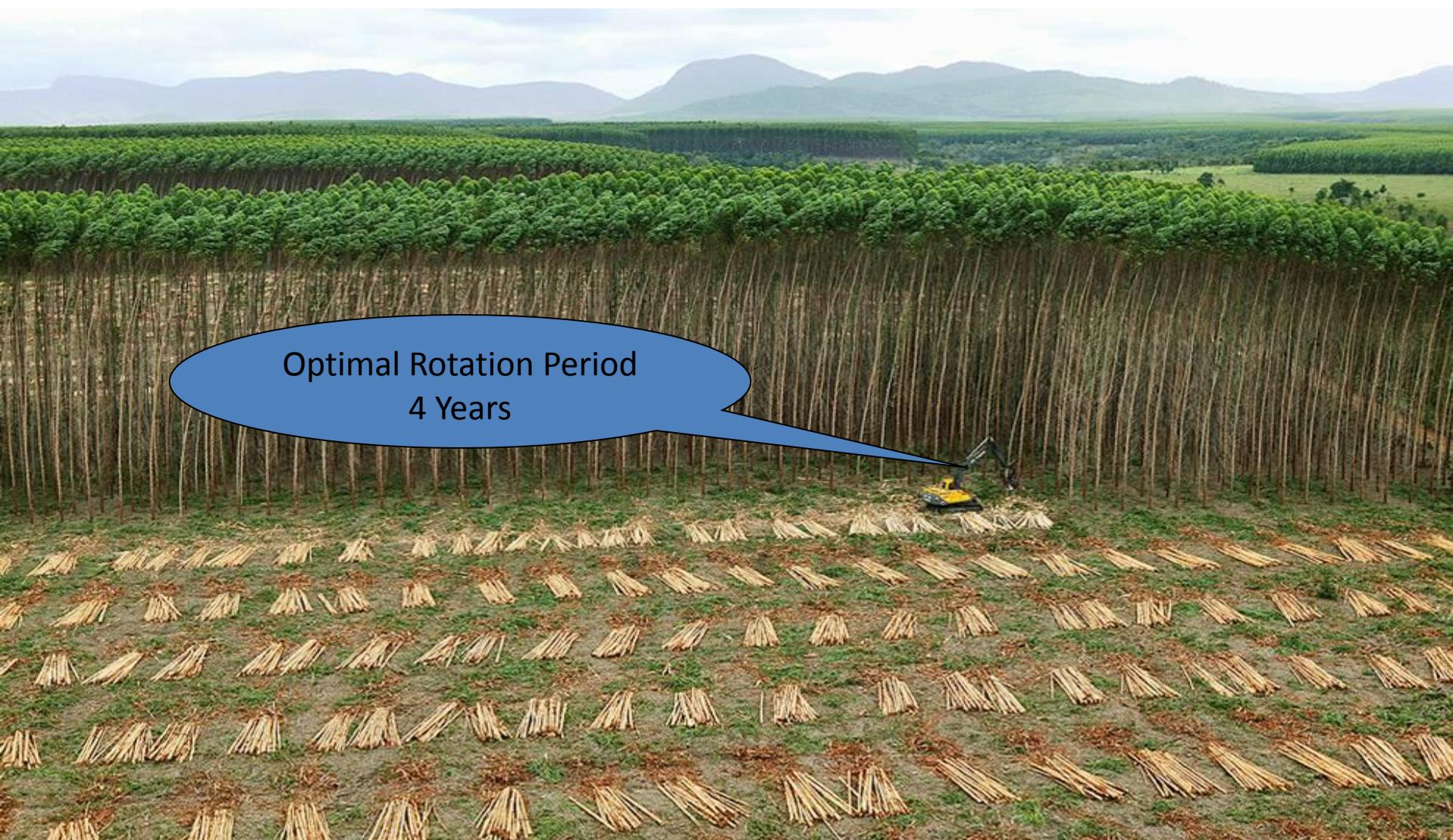


Baseline Land Use

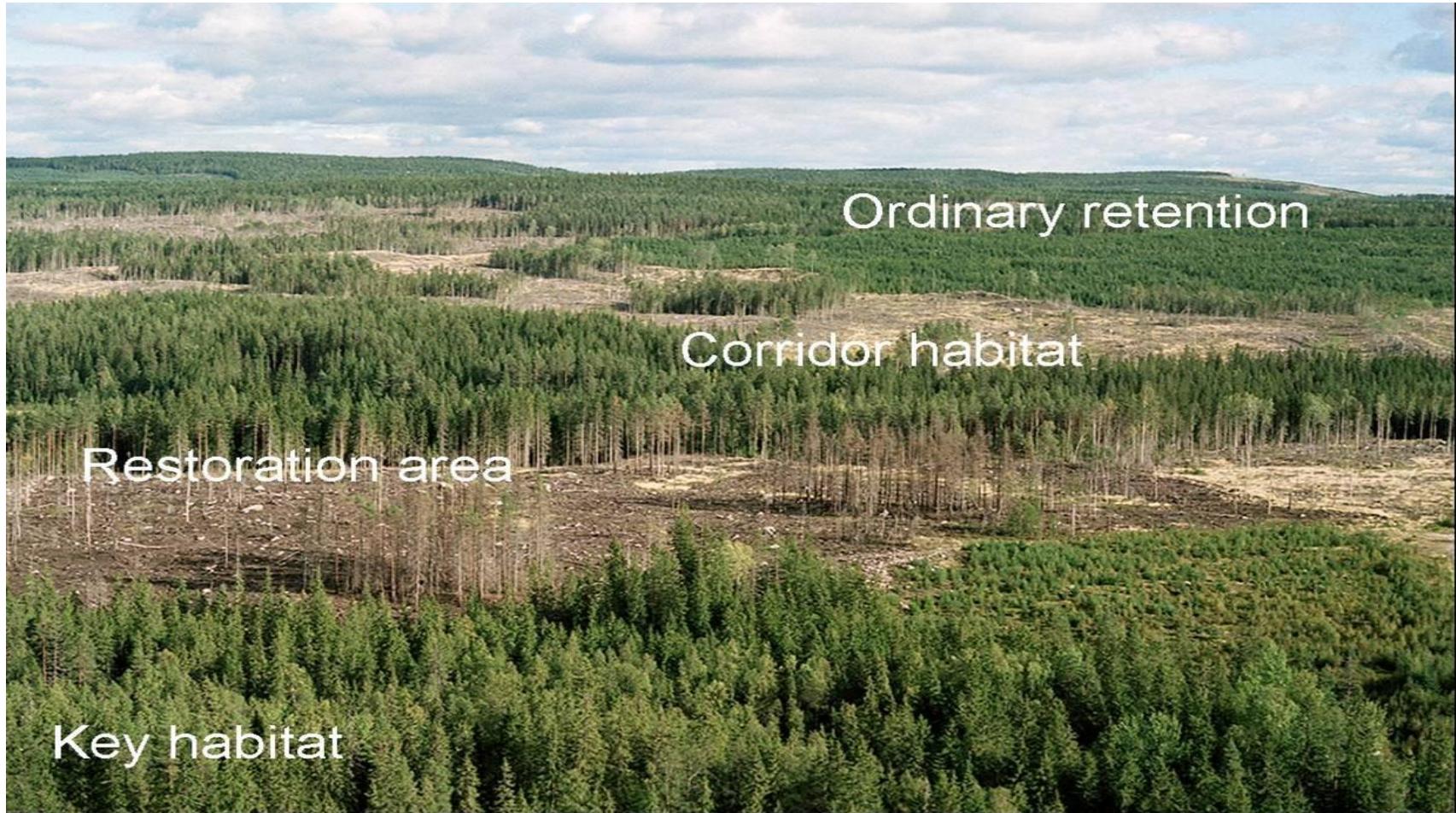




Intensive SFM

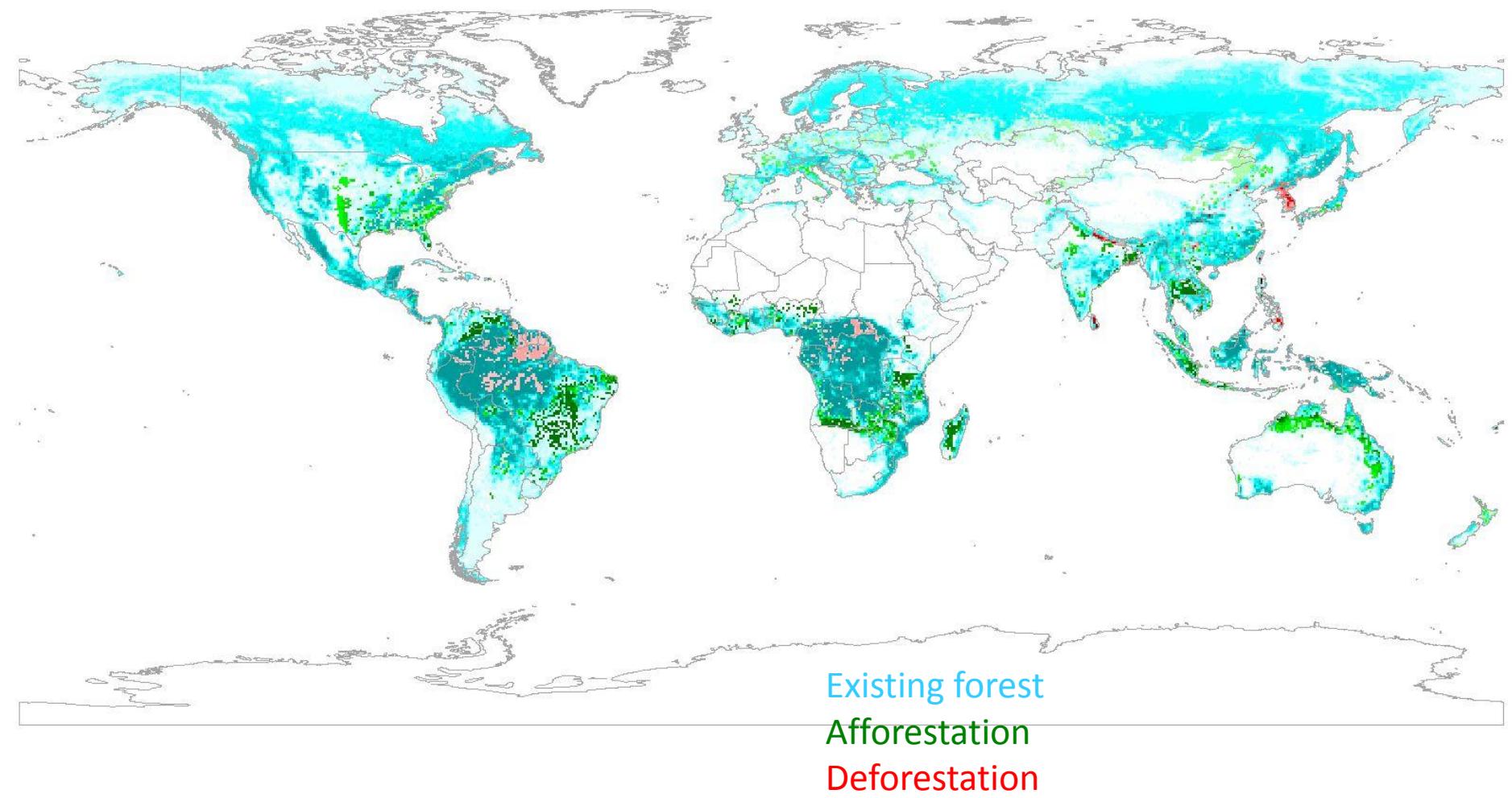


Extensive SFM



Land Use Change until 2100 for B1

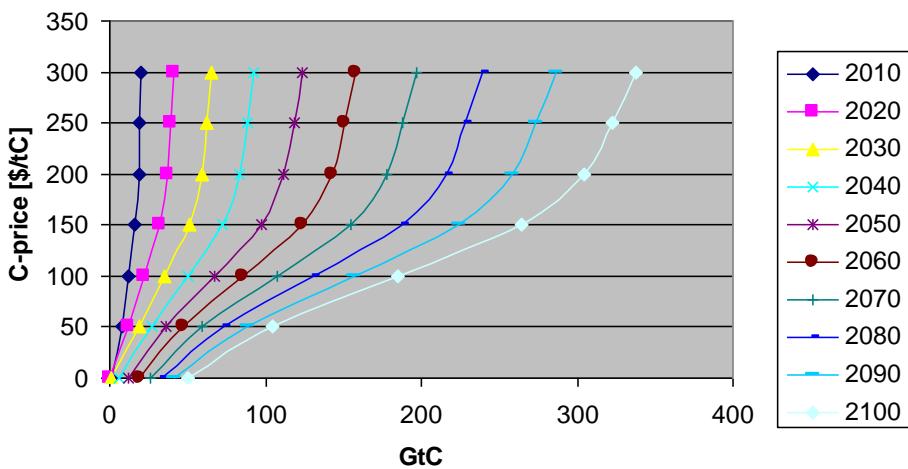
Intensity map: (affected) ha x C-uptake



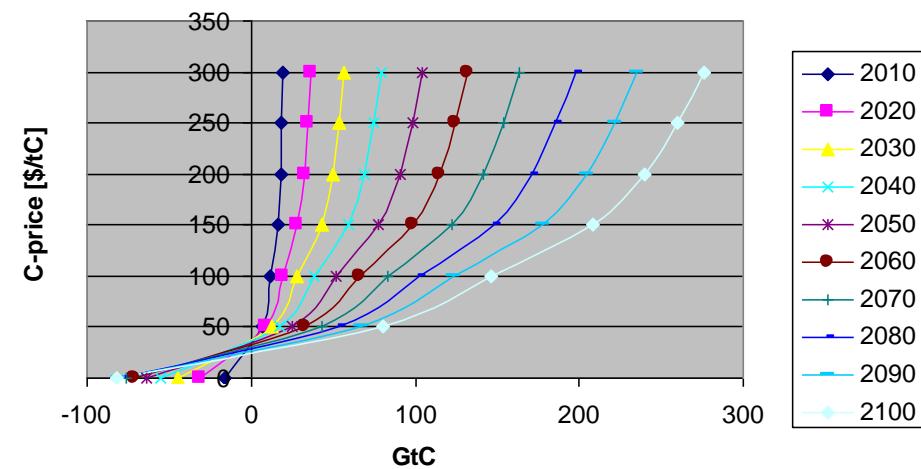
2. Carbon Sequestration

Total Carbon Supply: B1/A2

Cumulative C-sequestration potential in B1

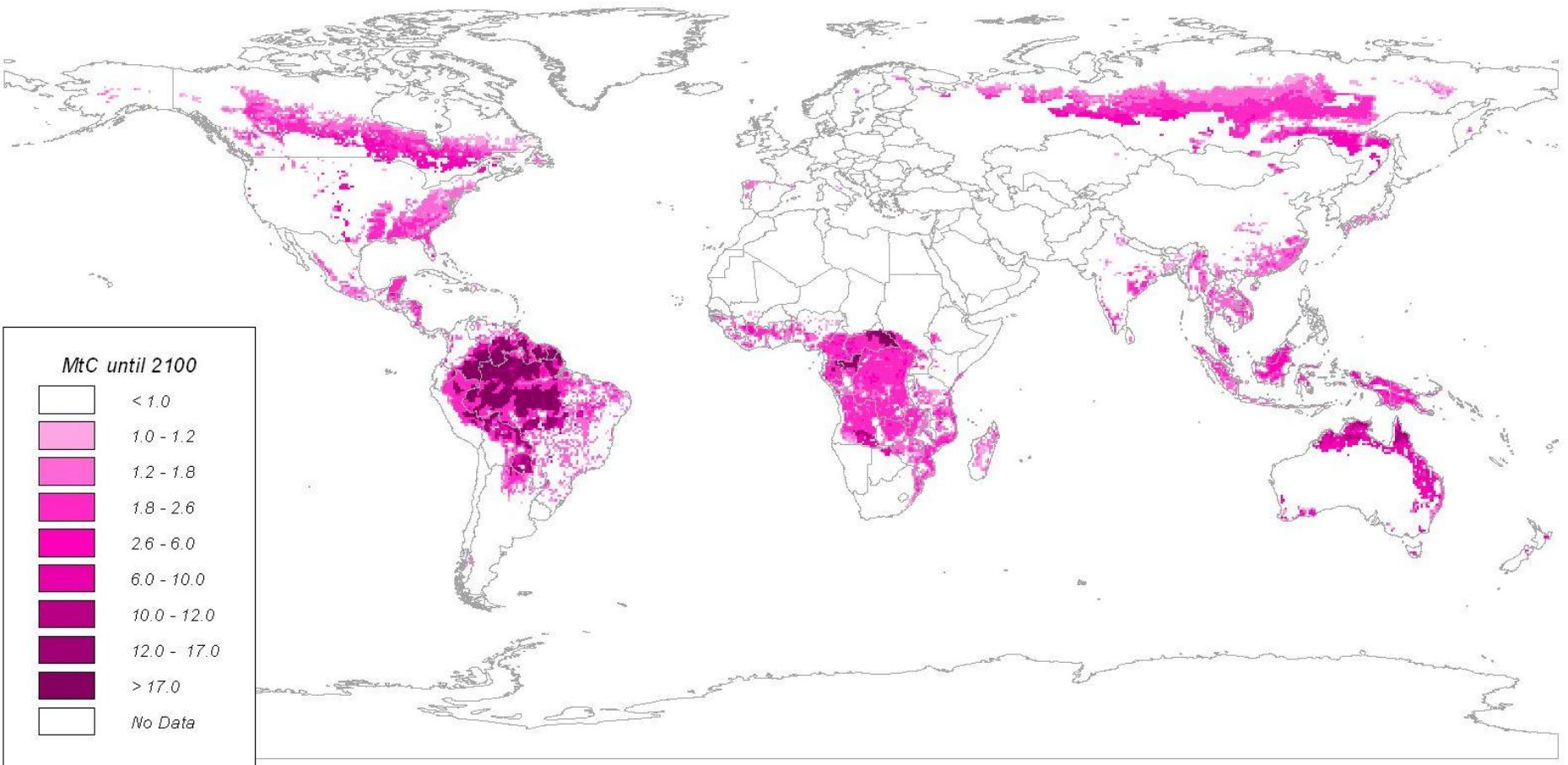


Cumulative C-sequestration potential in A2



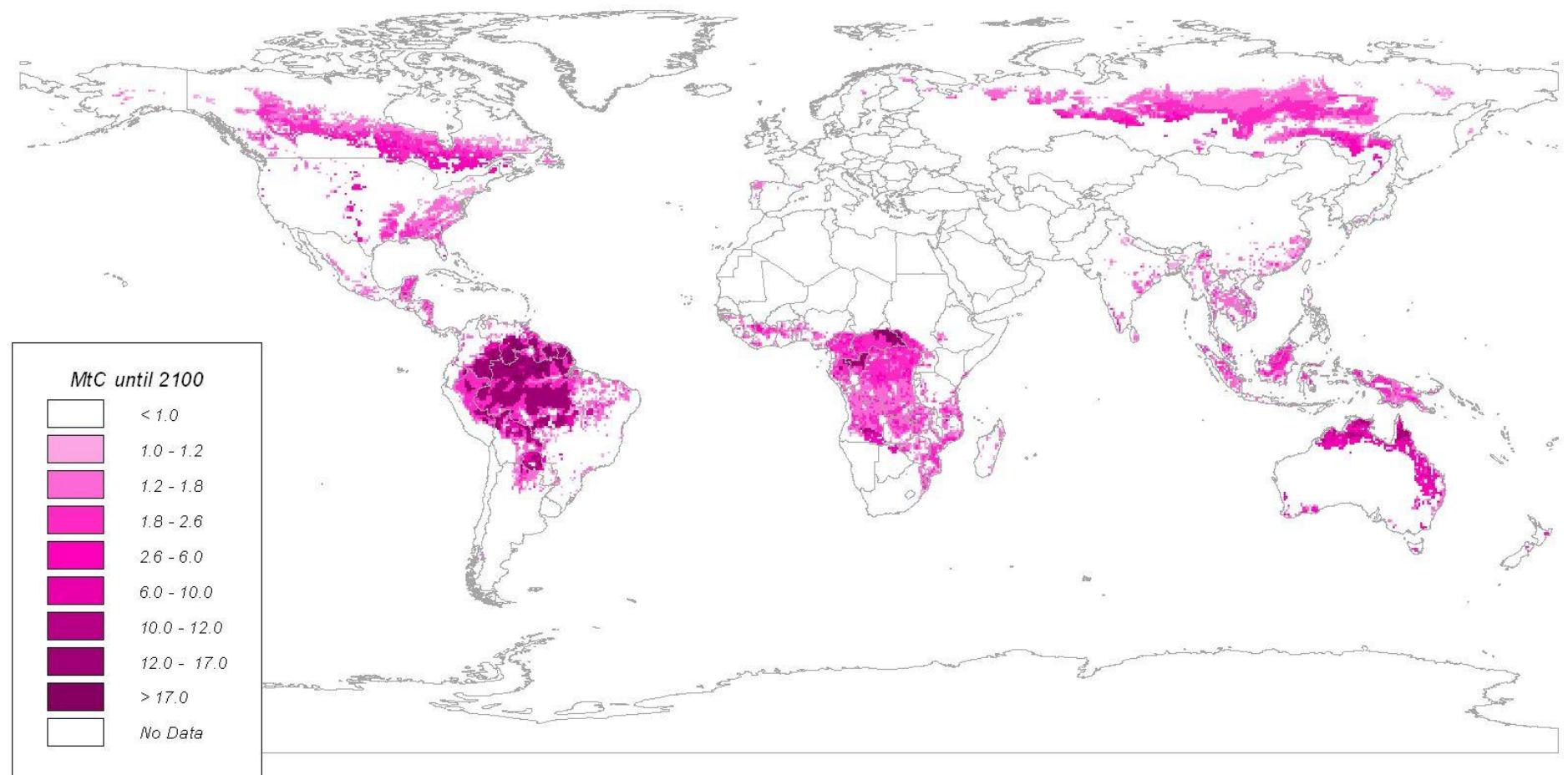
Geography of Carbon Supply

B1 until 2100 for 150 \$/TC in acc. tC



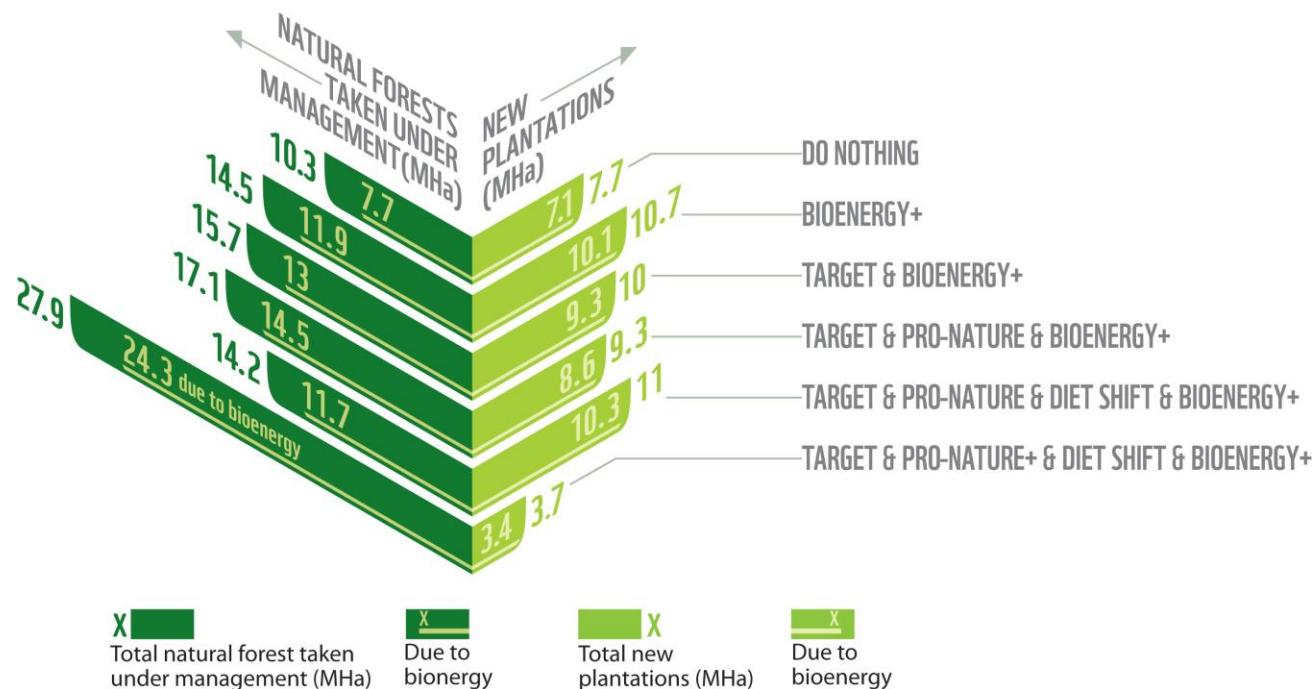
Geography of Carbon Supply

A2 until 2100 for 150 \$/tC in acc. tC

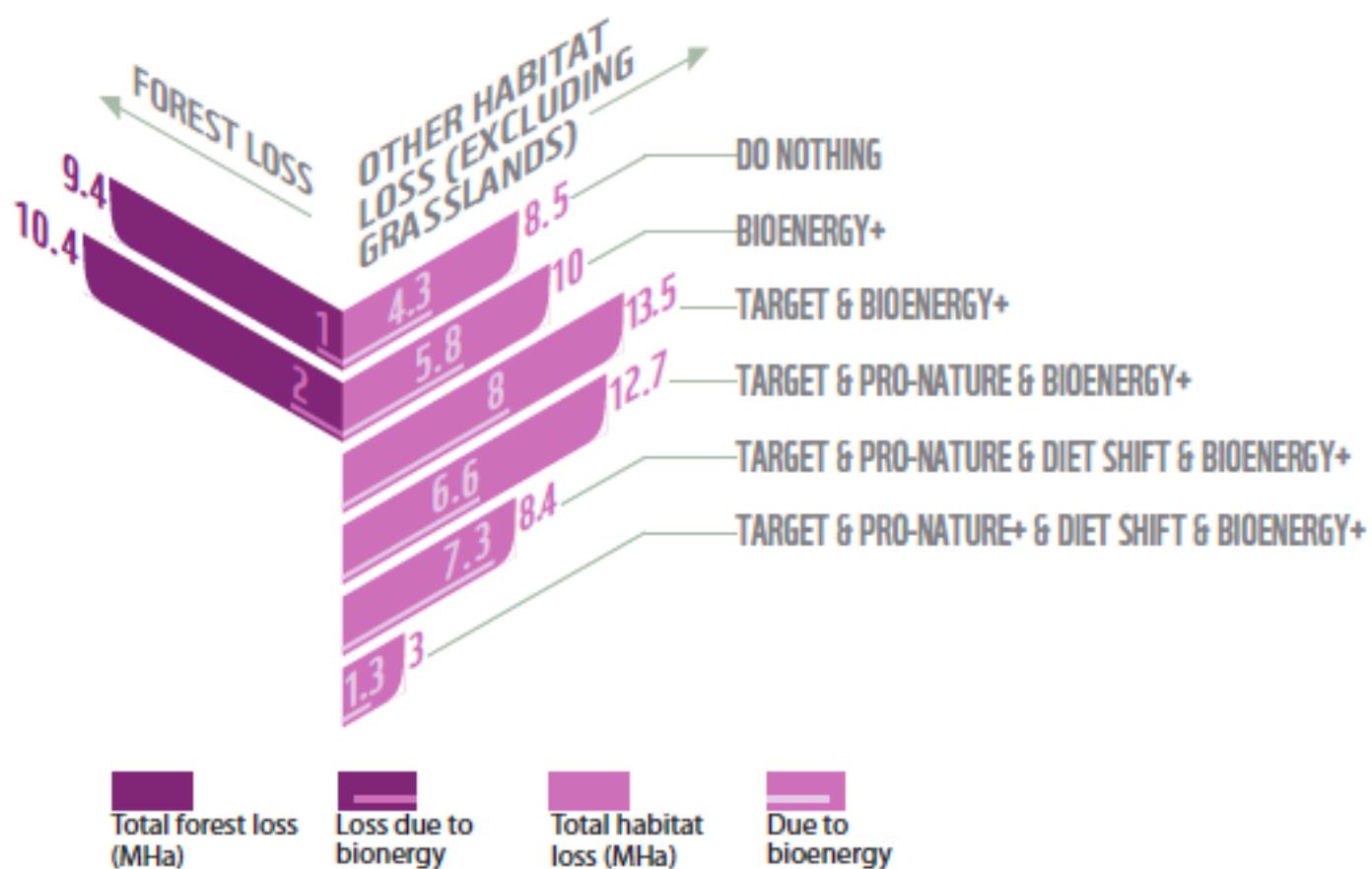


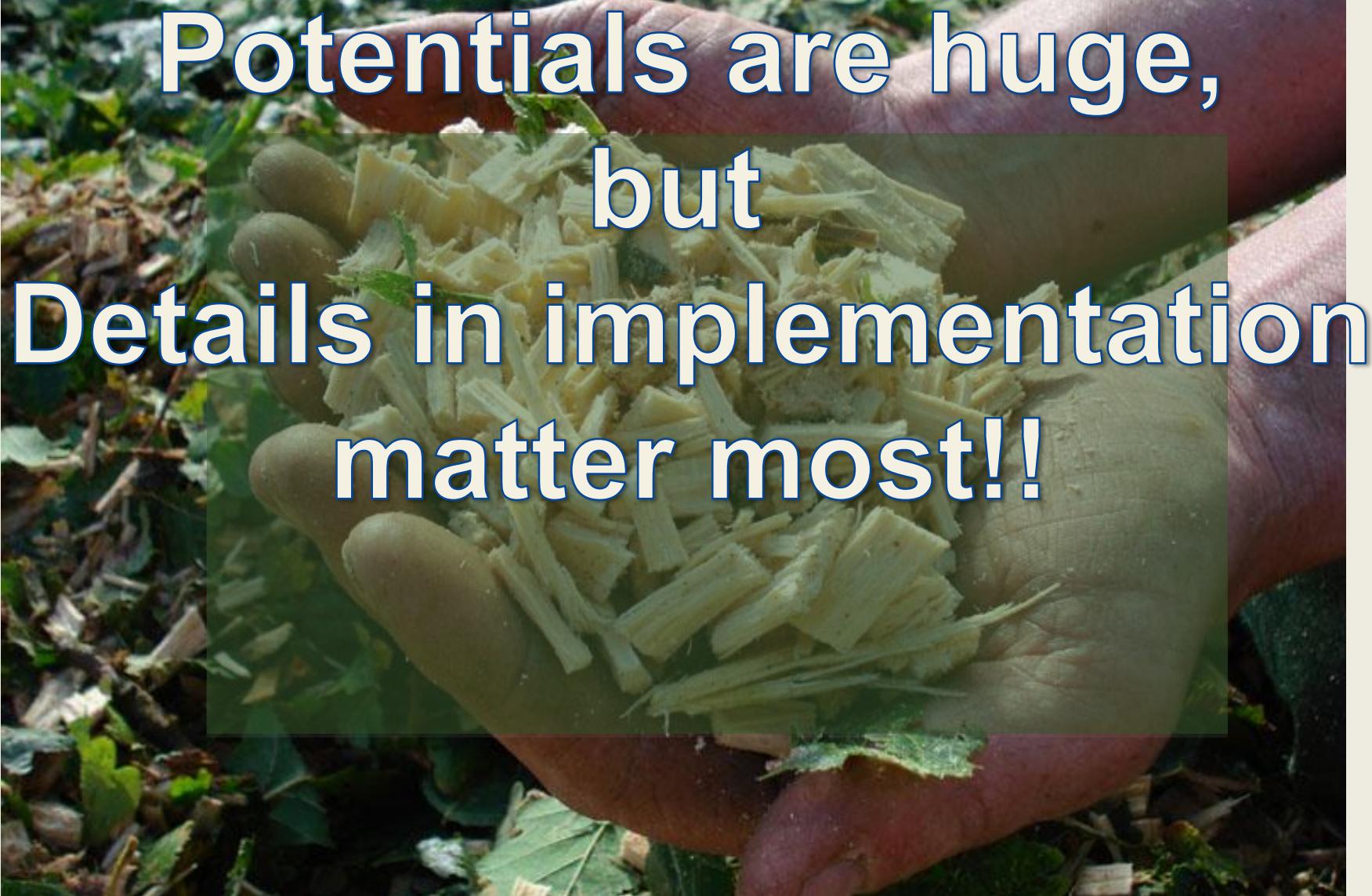
Bioenergy and Fast Growing Plantations

- Bioenergy becomes the main driver behind the expansion of fast growing plantations.
- 250 million hectares of new tree plantations between now and 2050.



Bioenergy and Fast Growing Plantations





Potentials are huge,
but
Details in implementation
matter most!!