

Scientists Can change Tropical forest fates

Francis E. “Jack” Putz
Professor, University of Florida
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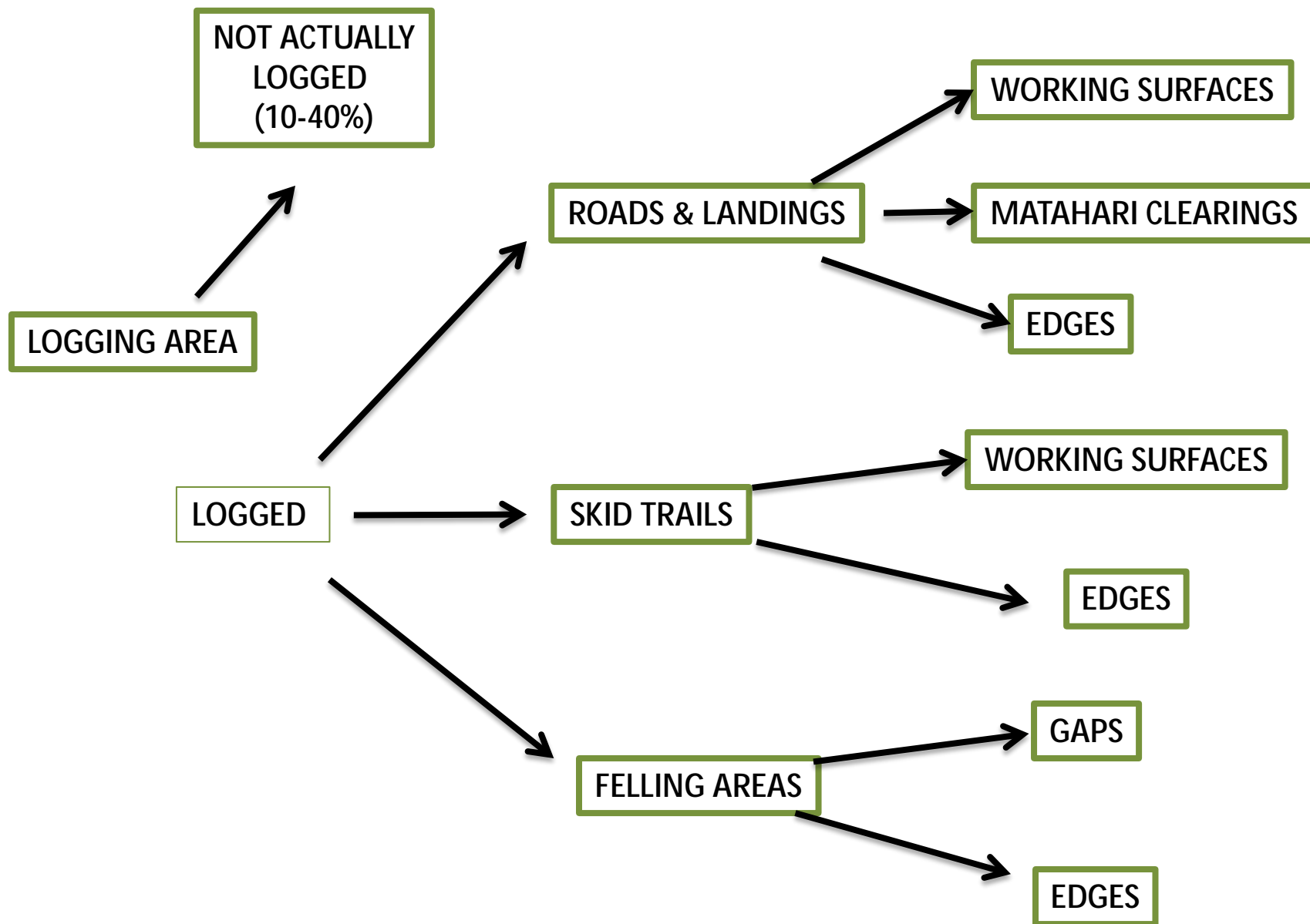




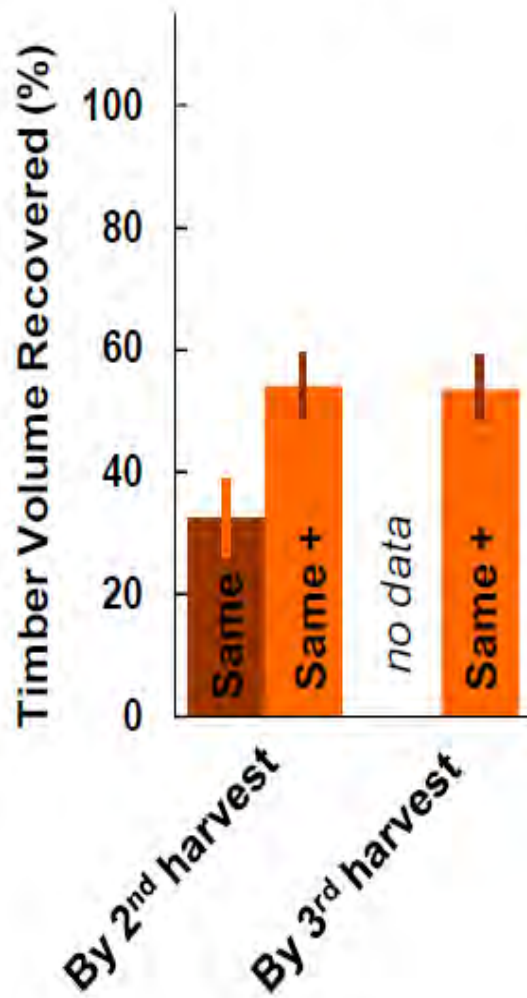




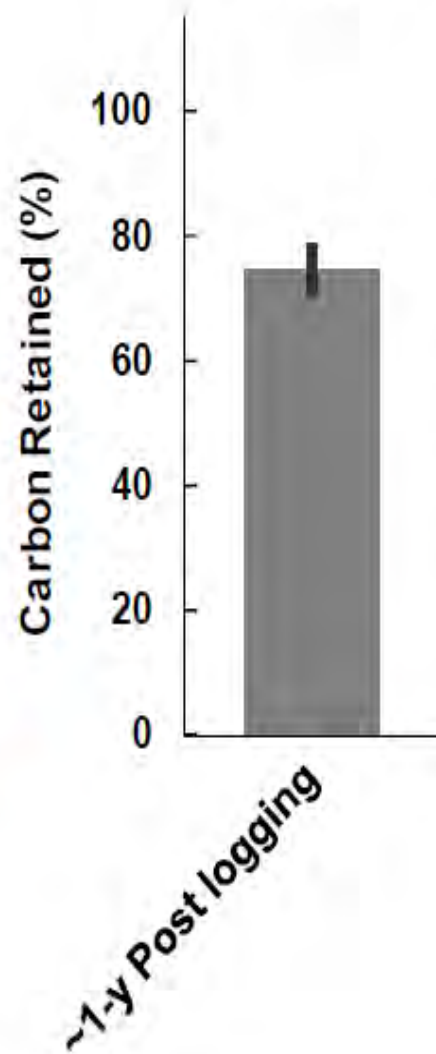




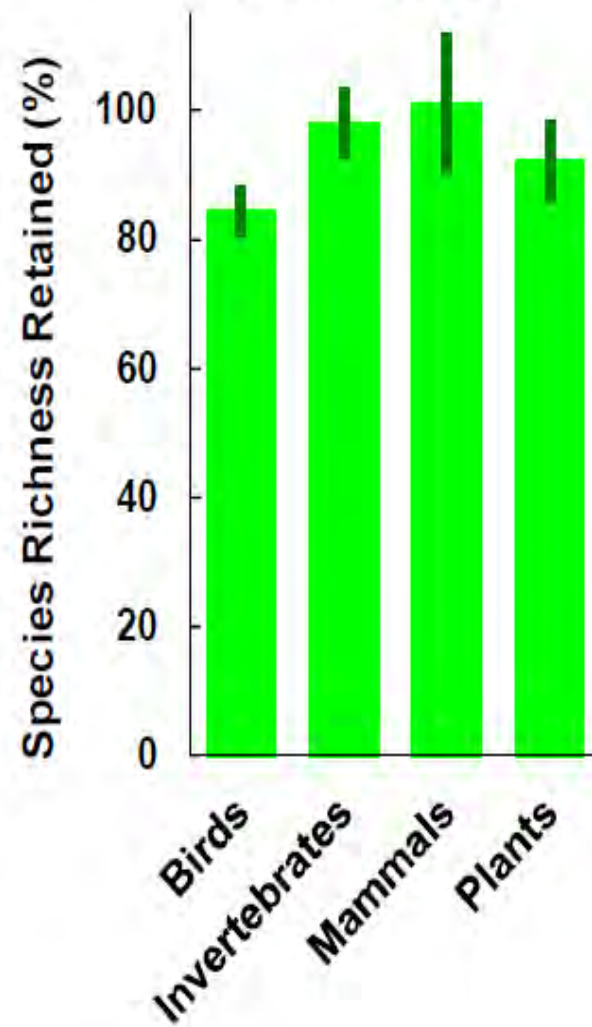
a. Timber



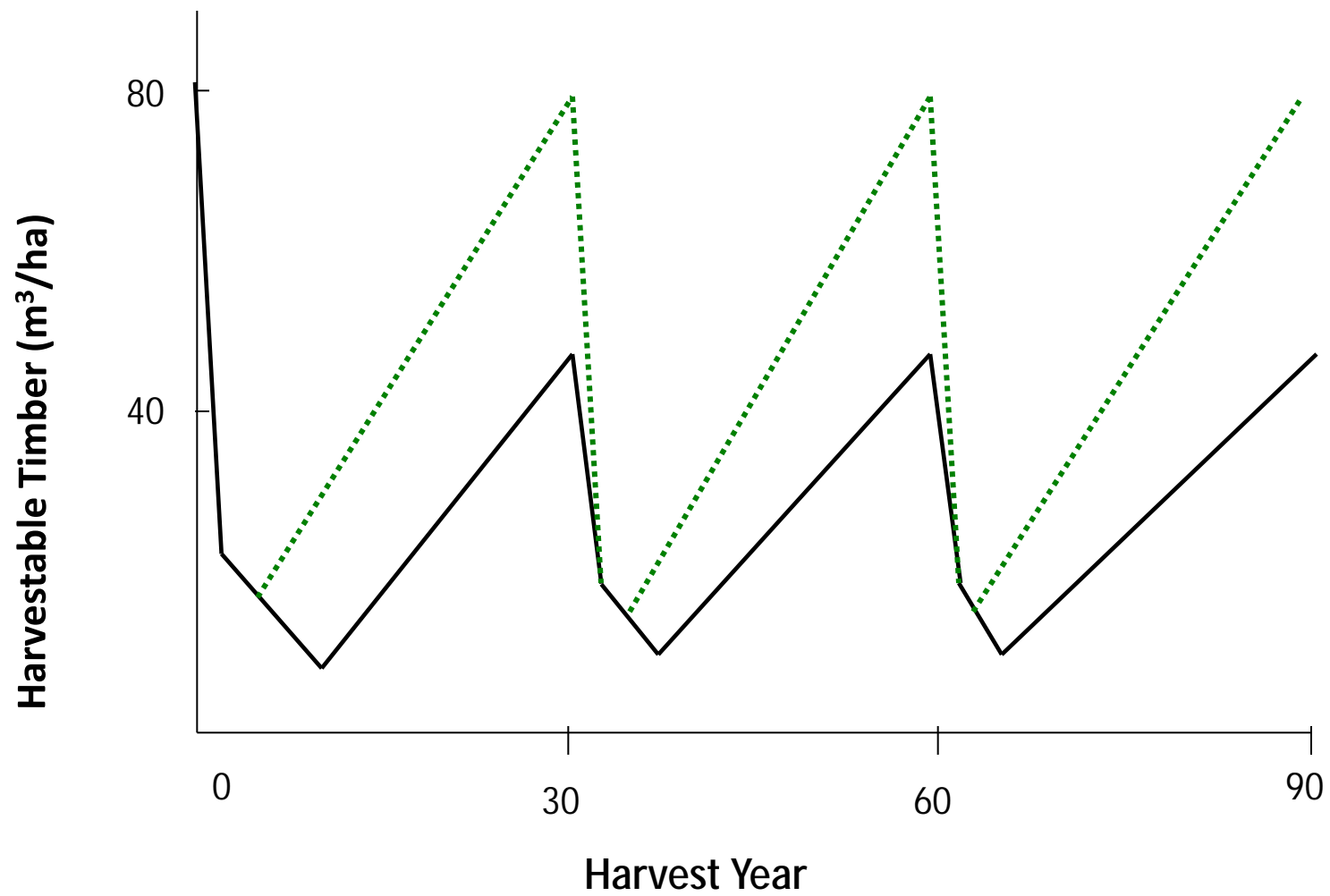
b. Carbon

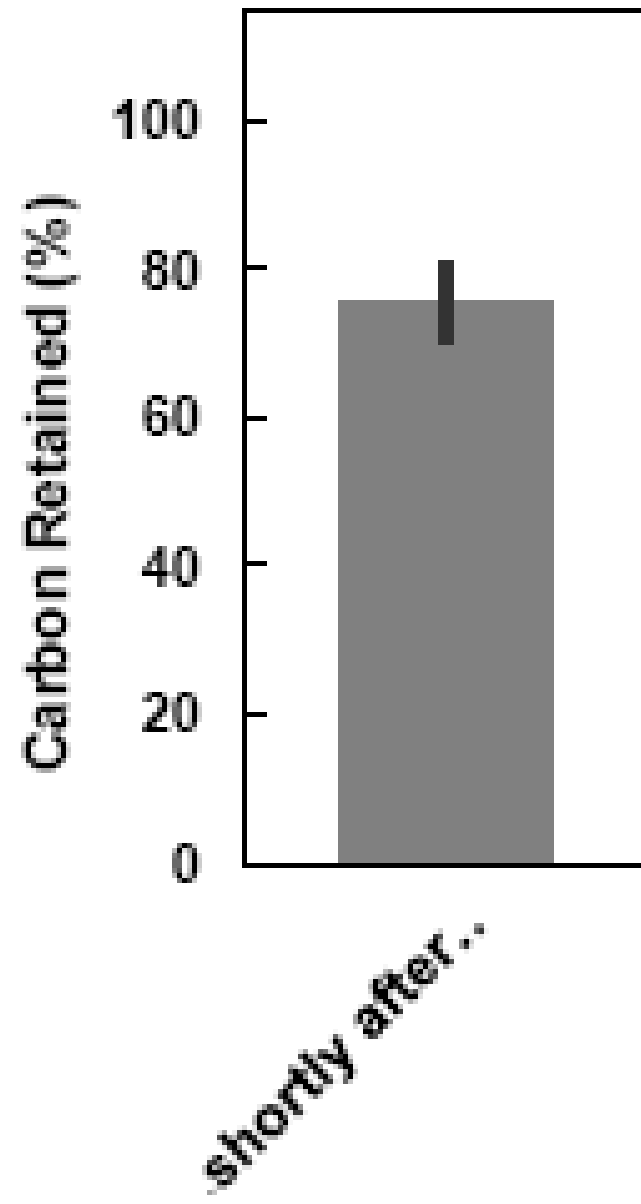


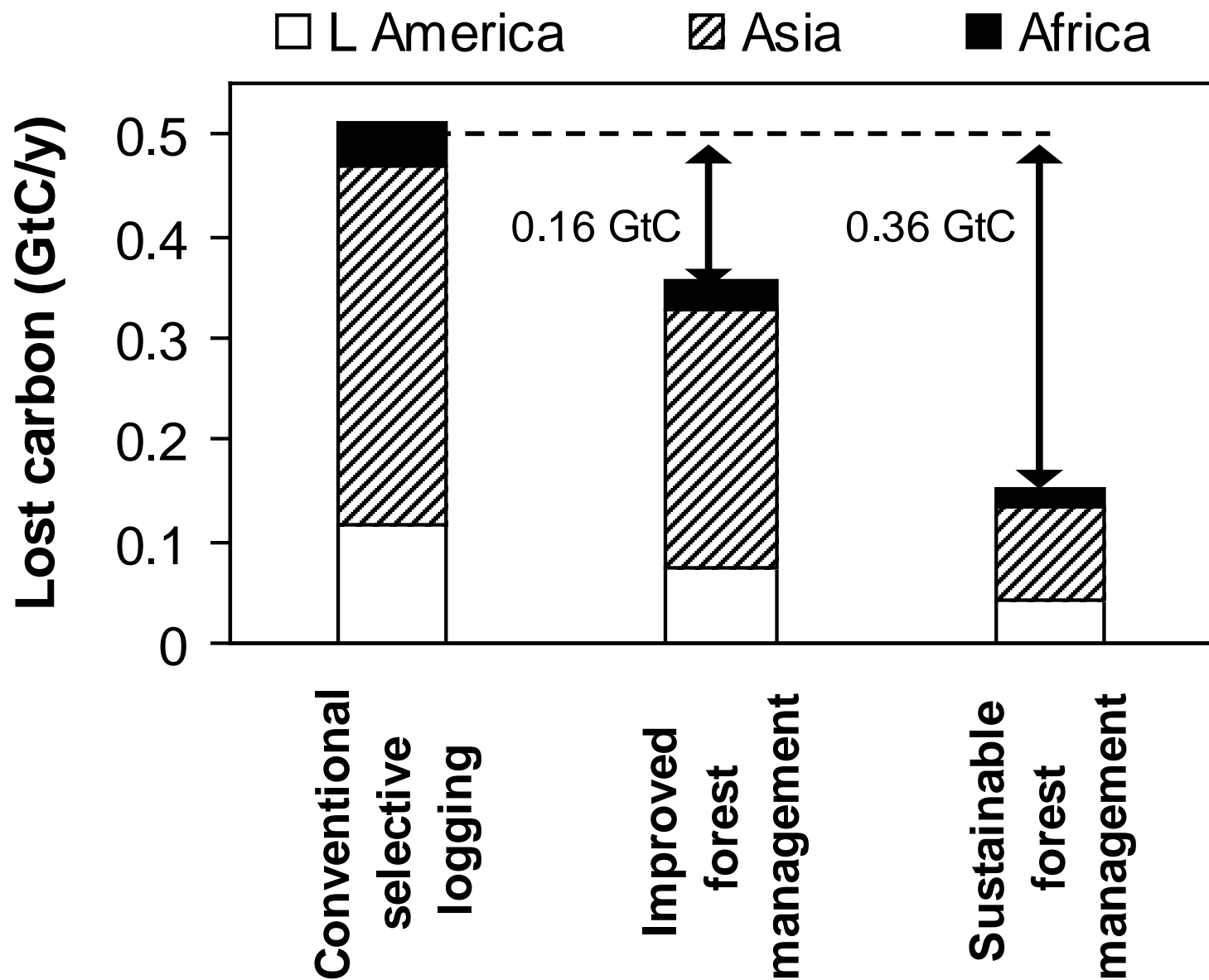
c. Biodiversity











MESSAGES

Selective logging isn't so bad in terms of:

1. Timber yields

(sustained with a '*Primary Forest Premium*')

2. Carbon retention and recovery

3. Biodiversity

(at least if expressed as species richness)

Synergistic Improvements (timber/carbon/biodiversity)

Lengthen Cutting Cycles

and/or

Reduce Harvest Intensity (m^3/ha)

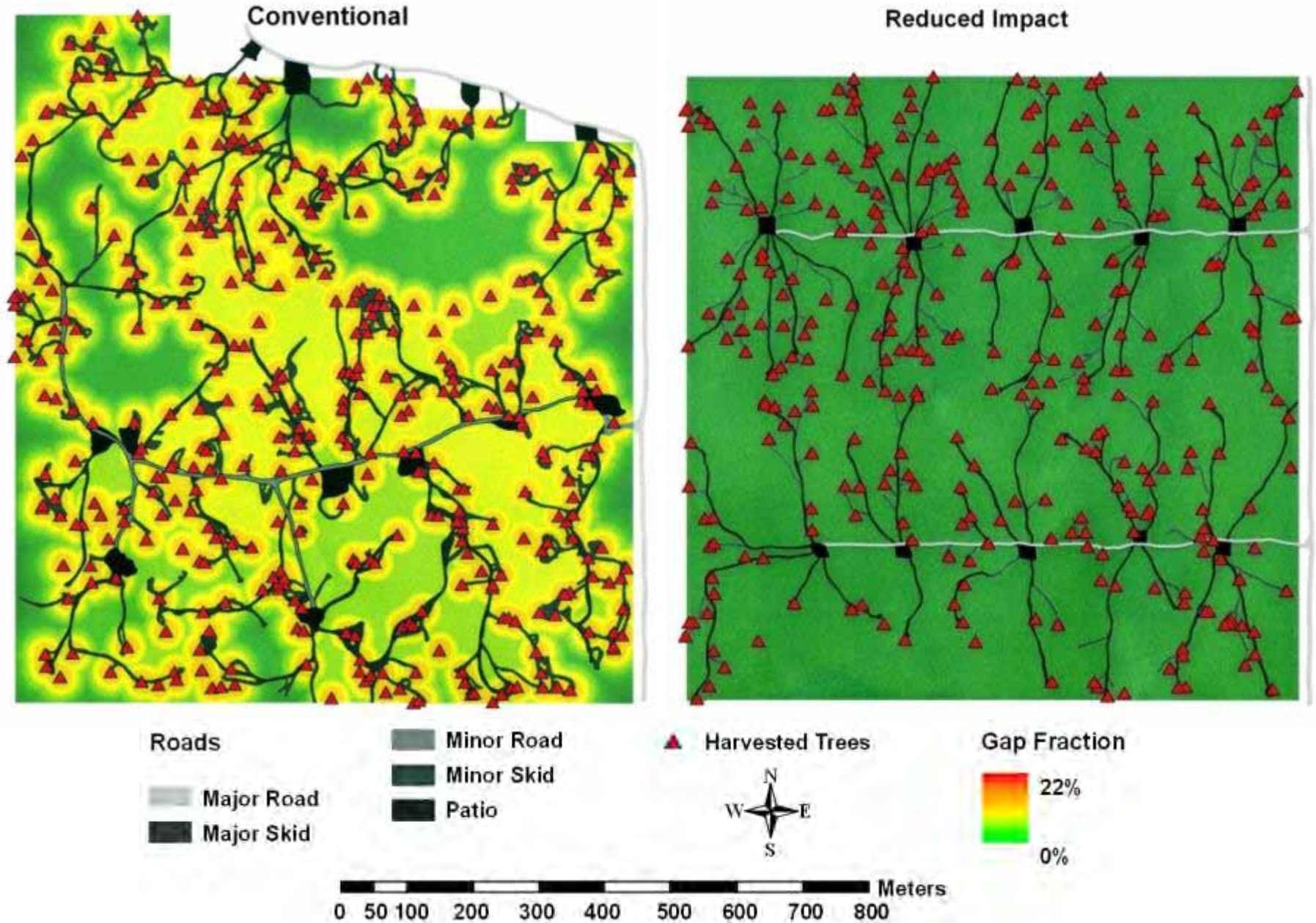
while always

Employing Reduced-Impact Logging (RIL)

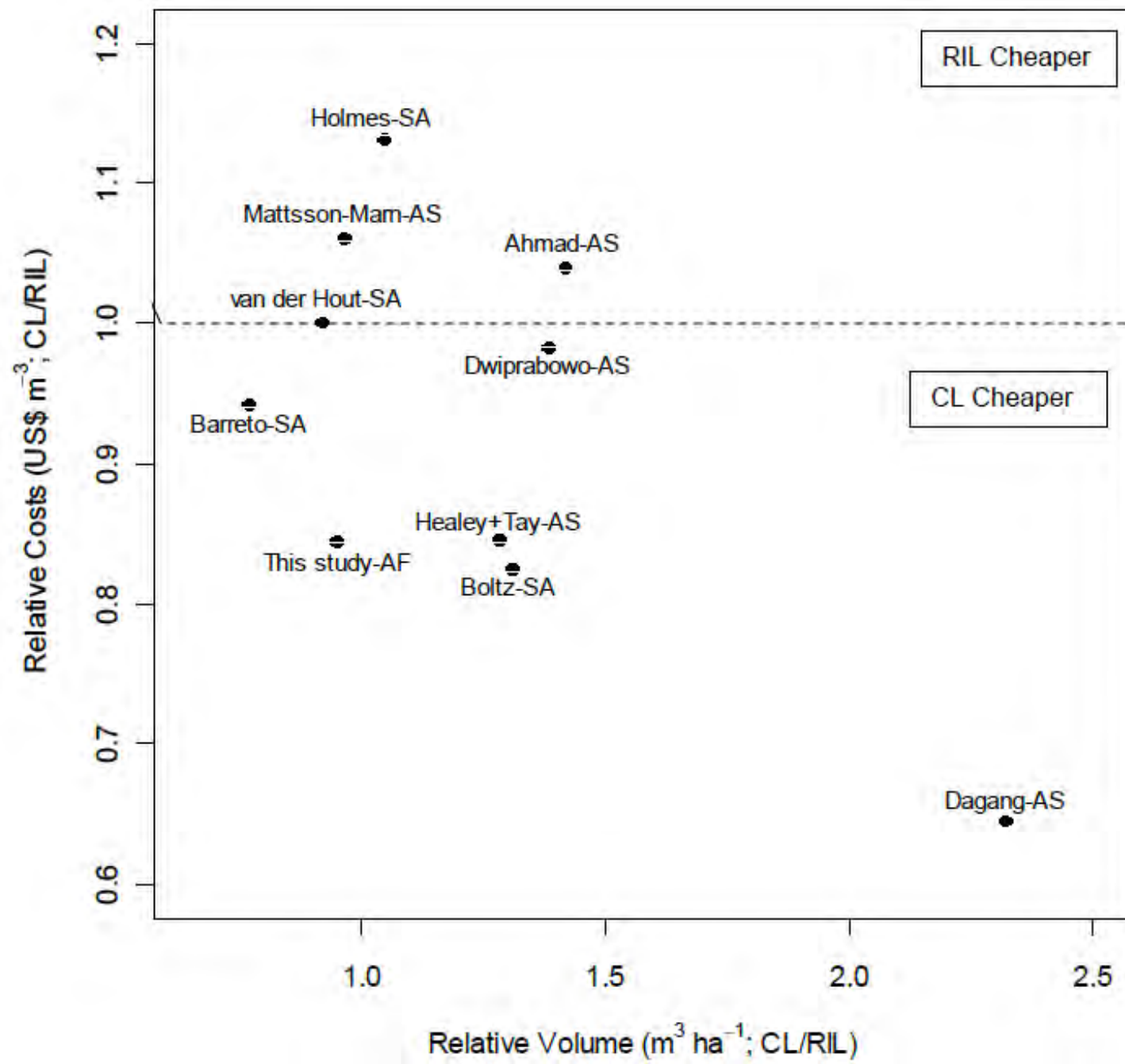


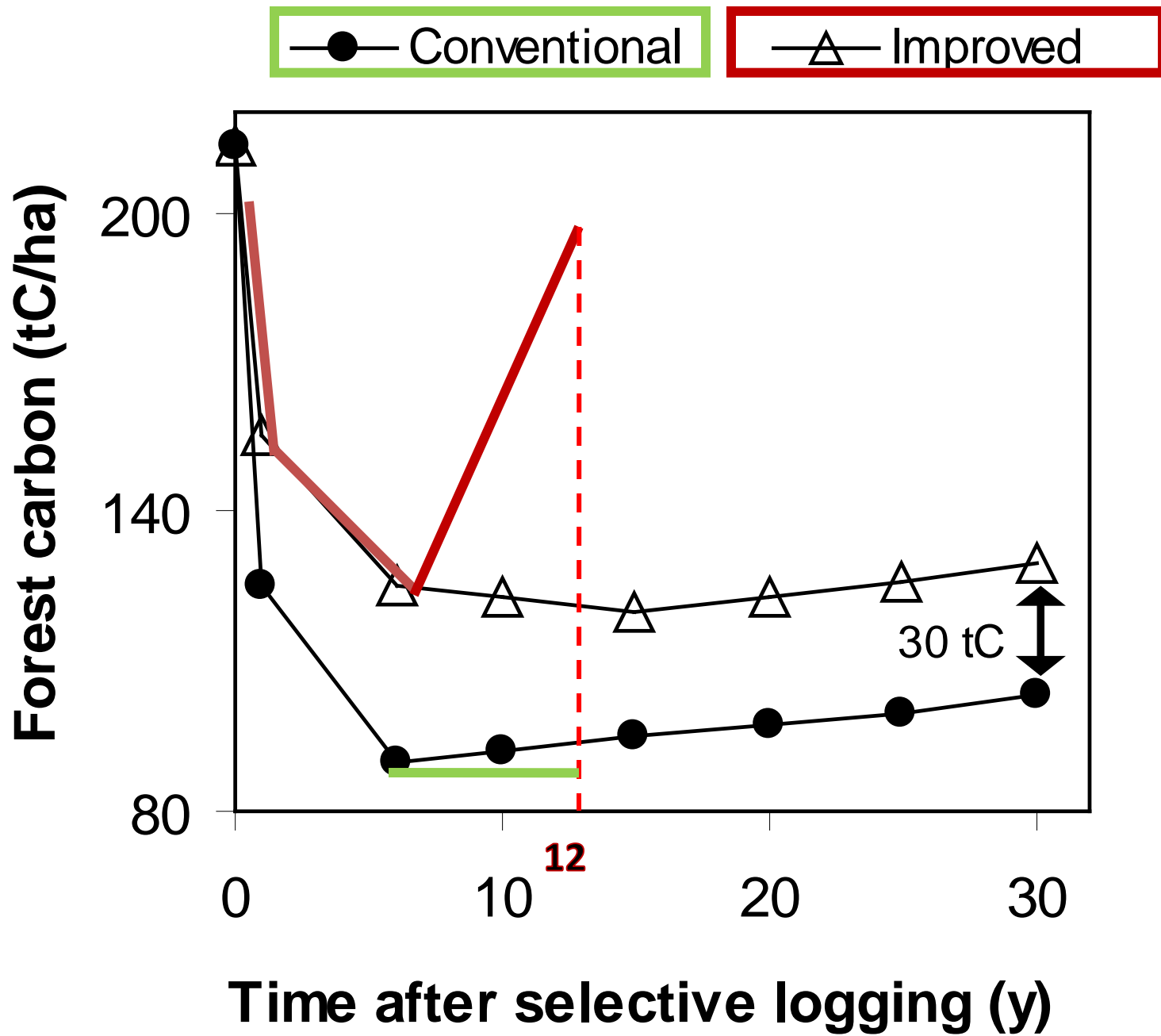
FSC-Certified vs Conventional Logging in Gabon

1996 Logging Plots









But why are these improvements more likely than ever before?

1. Emphasis on **Legality** (FLEGT & Lacey Act).
2. Forest Product **Certification**.
3. Forest **Carbon** Valuation through REDD+.
4. Increased **Community** Control.

SUSTAINABILITY

Longer Cutting Cycles

Silvicultural Treatments

Lower Intensity

FLEGT

FSC

REDD⁺

Community

Lacey Act

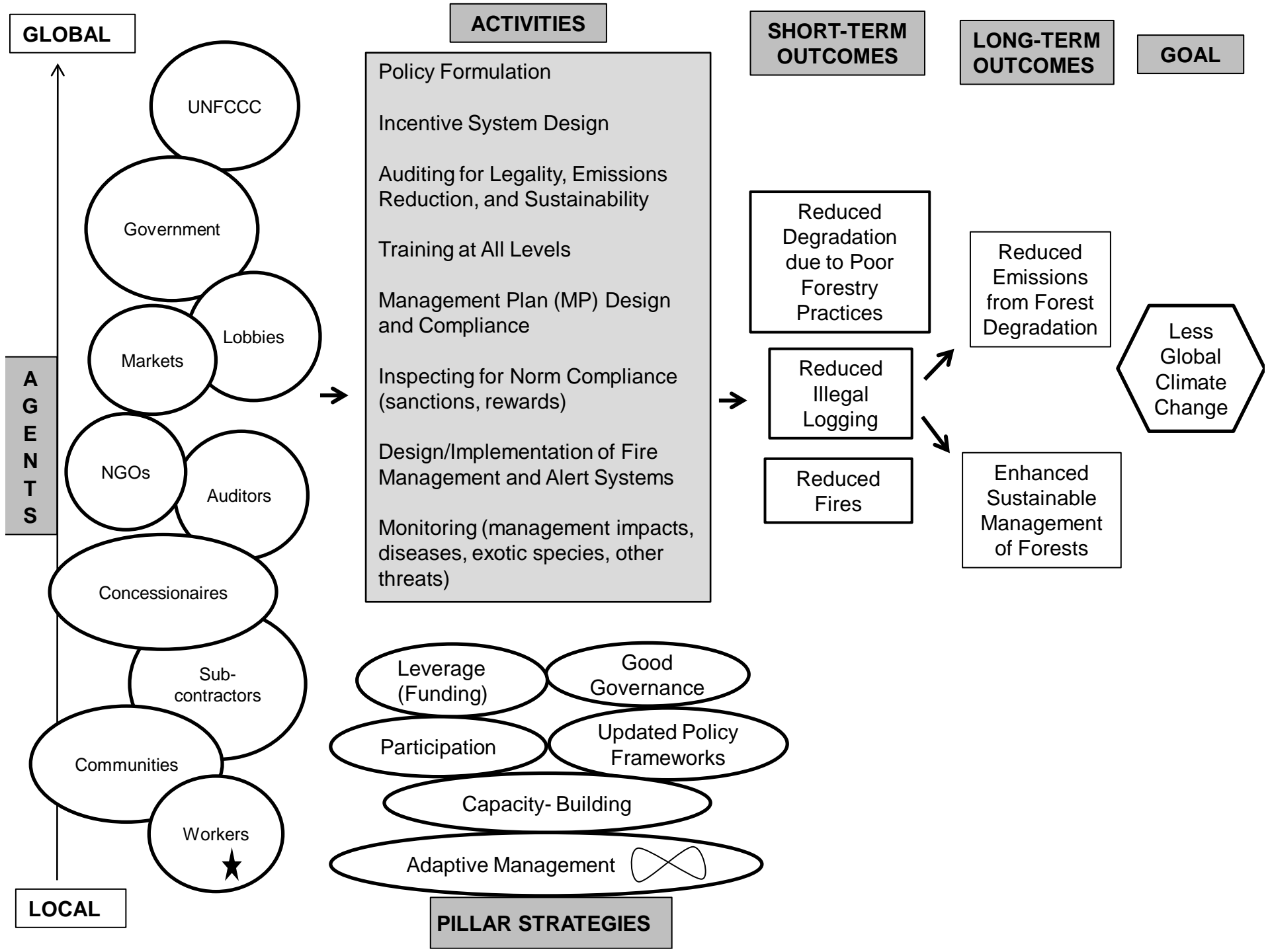


Certification

VCS

Control

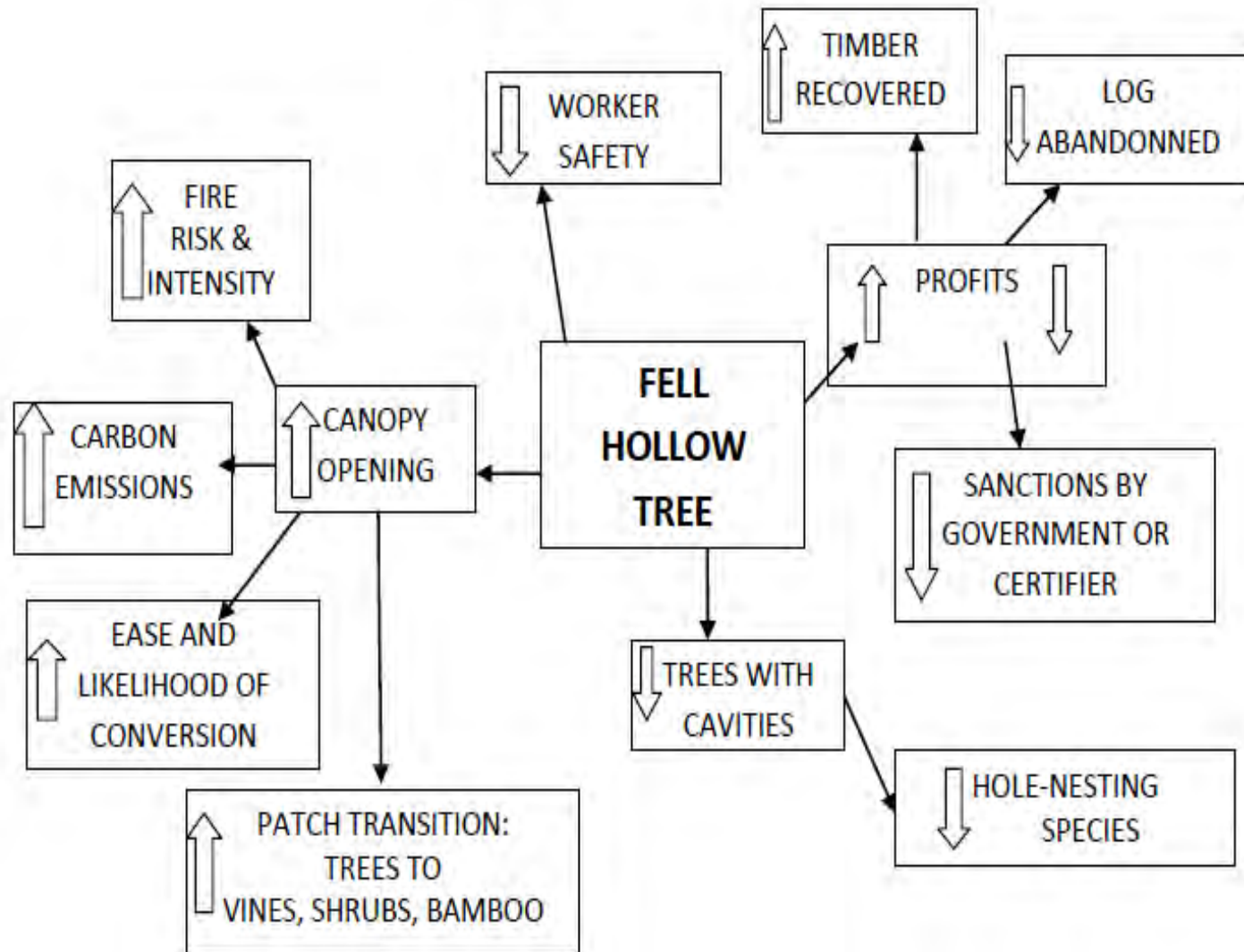
REDUCED- IMPACT LOGGING





In Kalimantan,
if avoid felling defective trees
that yield no timber,
carbon emissions
decline by **8 Mg/ha**

Ecological, Social, and Economic Impacts of Felling Hollow Trees



Hierarchy of Agents with Interest in Hollow Trees and Potential Influence on the Feller

