



**NEW**  
**GENERATION**  
**PLANTATIONS**  
*platform*

FOR PEOPLE, PLANET AND PROSPERITY


# TREE PLANTATIONS IN THE LANDSCAPE DIALOGUE

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# #NGP2018



An aerial photograph showing a large herd of white sheep grazing on a vast, green landscape. The ground is covered in low-lying vegetation and is heavily cracked, suggesting dry conditions. The sheep are scattered across the field, with a denser group in the upper left and a more dispersed group trailing off towards the bottom right. In the top right corner, a small body of water is visible. The overall scene conveys a sense of resource scarcity and competition for food.

**When resources are degraded,  
we start competing for them.  
[...] So one way to promote  
peace is to promote sustainable  
management and equitable  
distribution of resources.**

**– Wangari Maathai**





WWF®

FOREST  
PRACTICE  
STRATEGY  
2017



BY 2030 OUR FORESTS  
WILL BE SAVED FROM  
DEFORESTATION



**THE GLOBAL GOALS**  
For Sustainable Development



PARIS2015  
UN CLIMATE CHANGE CONFERENCE  
COP21·CMP11



**BONN  
CHALLENGE**

# 1 SCALE UP OUR SOLUTIONS

Over the last 10 years, NGP has demonstrated a concept that works. In a variety of countries and contexts, participants have shown that it's possible to produce timber efficiently and profitably while maintaining ecosystems and contributing to socio-economic development. And that doing so can open up new opportunities to create shared value for communities, restore degraded and deforested land, and contribute to climate change mitigation and adaptation.





**China Green Carbon Foundation;  
Forestry Commission of Great  
Britain; Governo Estadual do Acre,  
Brazil; APSD; Arauco; CMPC; Fibria;  
Kimberly-Clark; Mondi; The Navigator  
Company; New Forest Company;  
Stora Enso; Suzano; UPM; Veracel**

**Value: US\$100 billion**

**Land: 11 million ha**

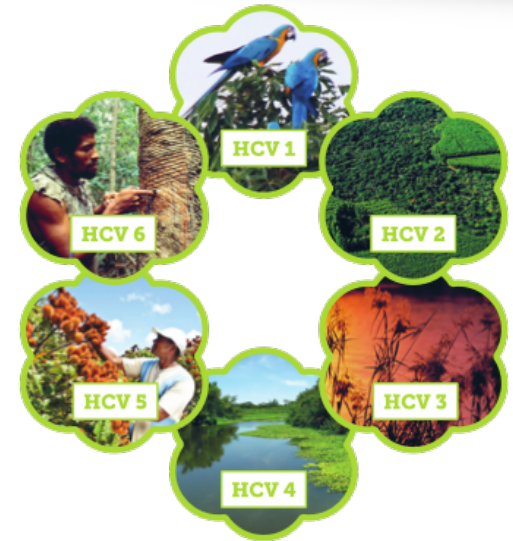
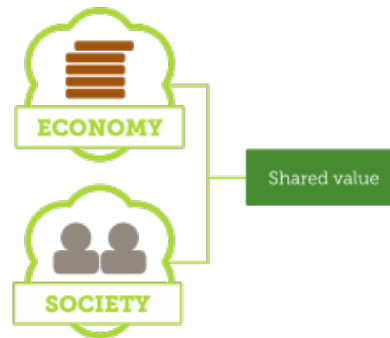
**~100% FSC**

**NGP PARTICIPANTS  
MANAGE 11 MILLION  
HECTARES, OF WHICH  
45% IS DEDICATED  
TO PLANTATIONS.**

**THE REST IS MADE UP  
OF CONSERVED AND  
RESTORED FORESTS  
AND OTHER NATURAL  
ECOSYSTEMS, ALONG  
WITH GRAZING LAND,  
SMALL-SCALE FARMING  
AND INFRASTRUCTURE.**



# NEW GENERATION PLANTATIONS CONCEPT

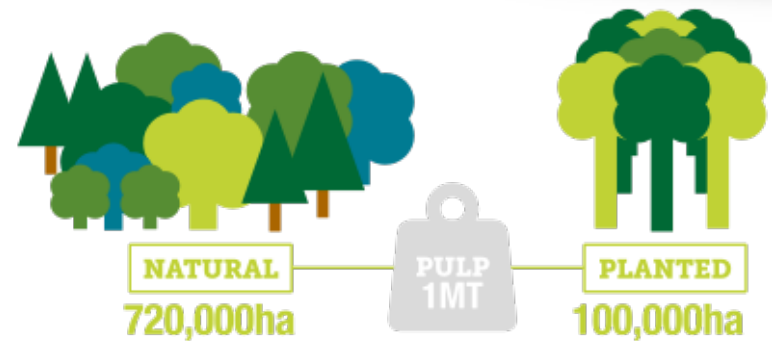


- **Maintain ecosystem integrity**
- **Protect and enhance high conservation values**
- **Developed through effective stakeholder involvement processes**
- **Contribute to economic growth and employment**



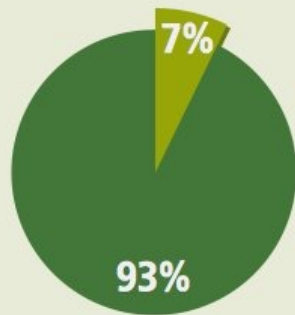
# SUSTAINABLE INTENSIFICATION

- Land-use planning
- Landscape stewardship
- Precision forestry & farming



**PLANTATIONS  
MAKE UP 7% OF  
GLOBAL FOREST  
COVER BUT  
PROVIDE 33%  
OF COMMERCIAL  
TIMBER**

The bulk of the world's forest is natural forest.



Global forest area, 2015

- Planted forest area
- Natural forest area

**LOGGING from natural forests is 816 million m<sup>3</sup> (26%) lower due to Plantations (Buongiorno and Zhu, 2014)**



# FOREST LANDSCAPE RESTORATION

Plantations can bring degraded land back into productive use, alongside restoring natural ecosystems and the services they provide.

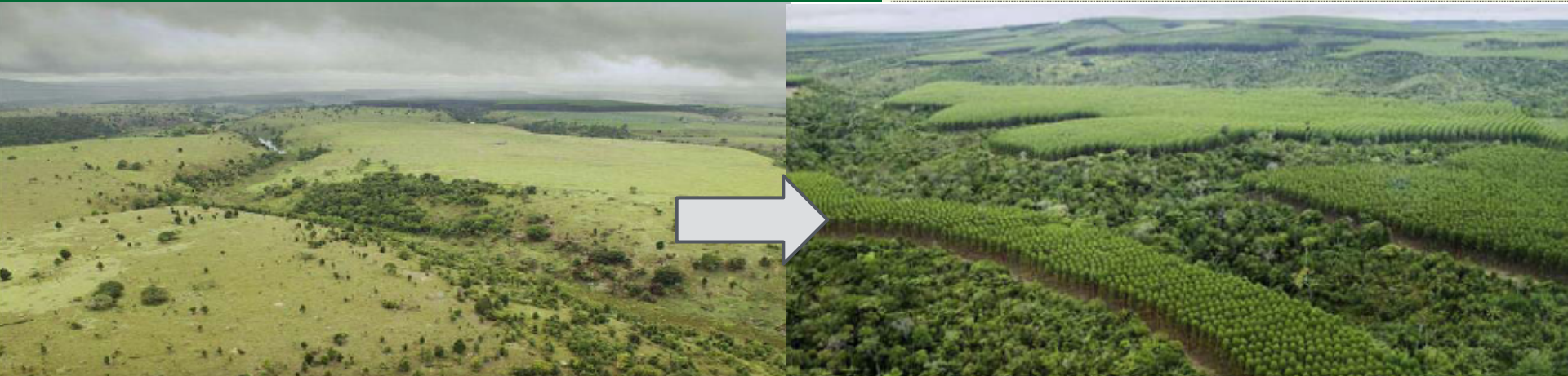






Figure 2. Ecosystem services from plantations, in relation to other ecosystems and land uses.  
Source: Baral et al. 2016. A proposed framework for assessing ecosystem goods and services from planted forests.

Ecosystem services	Provision of ecosystem services from plantations in relation to:			
	 Native forests	 Native grasslands	 Managed pasture	 Agriculture
<b>Provisioning services</b>				
Food production	↓	↓	⊖	↓
Timber production	↑	↑	↑	↑
Medicines	↓	↓	↑	↑
Freshwater	↓	↑	↓	↑
<b>Regulating services</b>				
Fresh air regulation	↓	↑	↑	↑
Carbon sequestration and storage	↑	↑	↑	↑
Groundwater recharge	↓	↓	↓	↑
Natural hazard regulation	↓	↑	↑	↑
Water purification	↓	↓	↑	↑
Disease regulation	↓	?	↑	↑
Pollination	↓	↓	↓	↑
Erosion prevention and soil protection	⊖	↓	⊖	↑
<b>Habitat or supporting services</b>				
Habitat for species	↓	↓	↑	↑
Maintenance of genetic diversity	↓	↓	?	↑
<b>Cultural services</b>				
Spiritual and religious values	↓	↓	?	?
Aesthetic values	↓	↓	?	?
Recreation and ecotourism	↓	?	↑	↑

Pirard et al. (2015) found evidence of reduced **DEGRADATION** of natural forests with the expansion of plantations



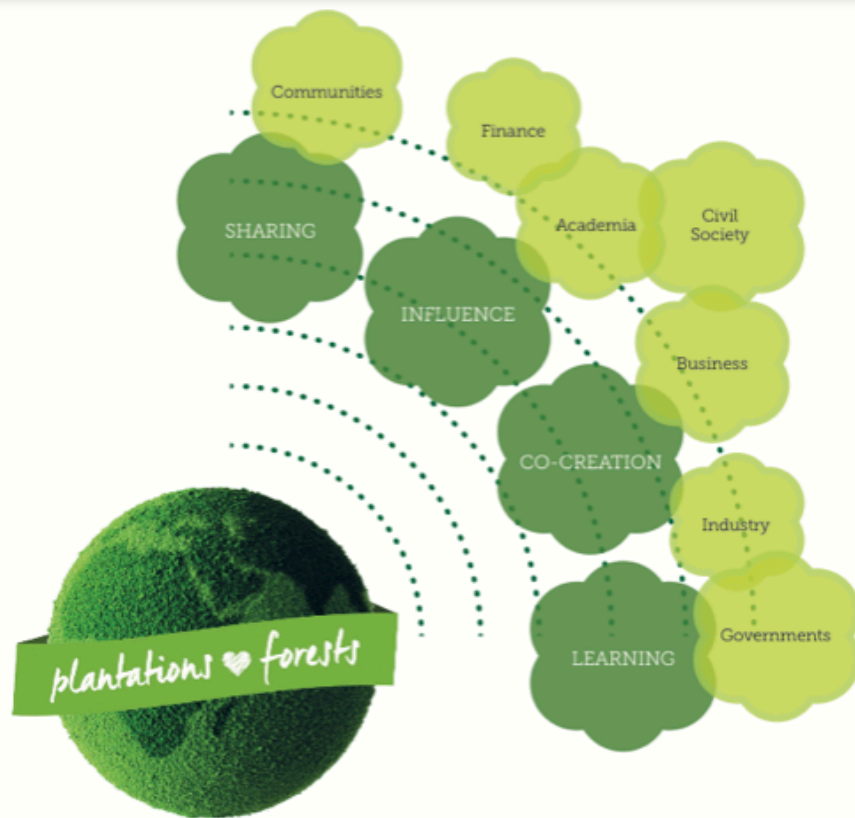


**CREATE SHARED VALUE**





# ECOSYSTEM OF COLLABORATION







[newgenerationplantations.org](http://newgenerationplantations.org)