



NEW
GENERATION
PLANTATIONS *platform*

FOR PEOPLE, PLANET AND PROSPERITY

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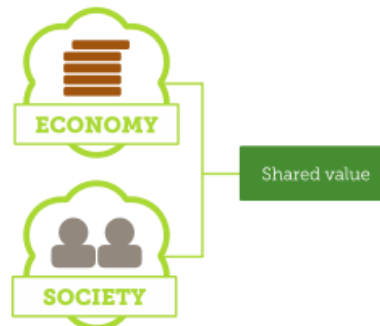
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#NGP2019

NEW GENERATION PLANTATIONS

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

CREATE SHARED VALUE & HIGH CONSERVATION VALUES



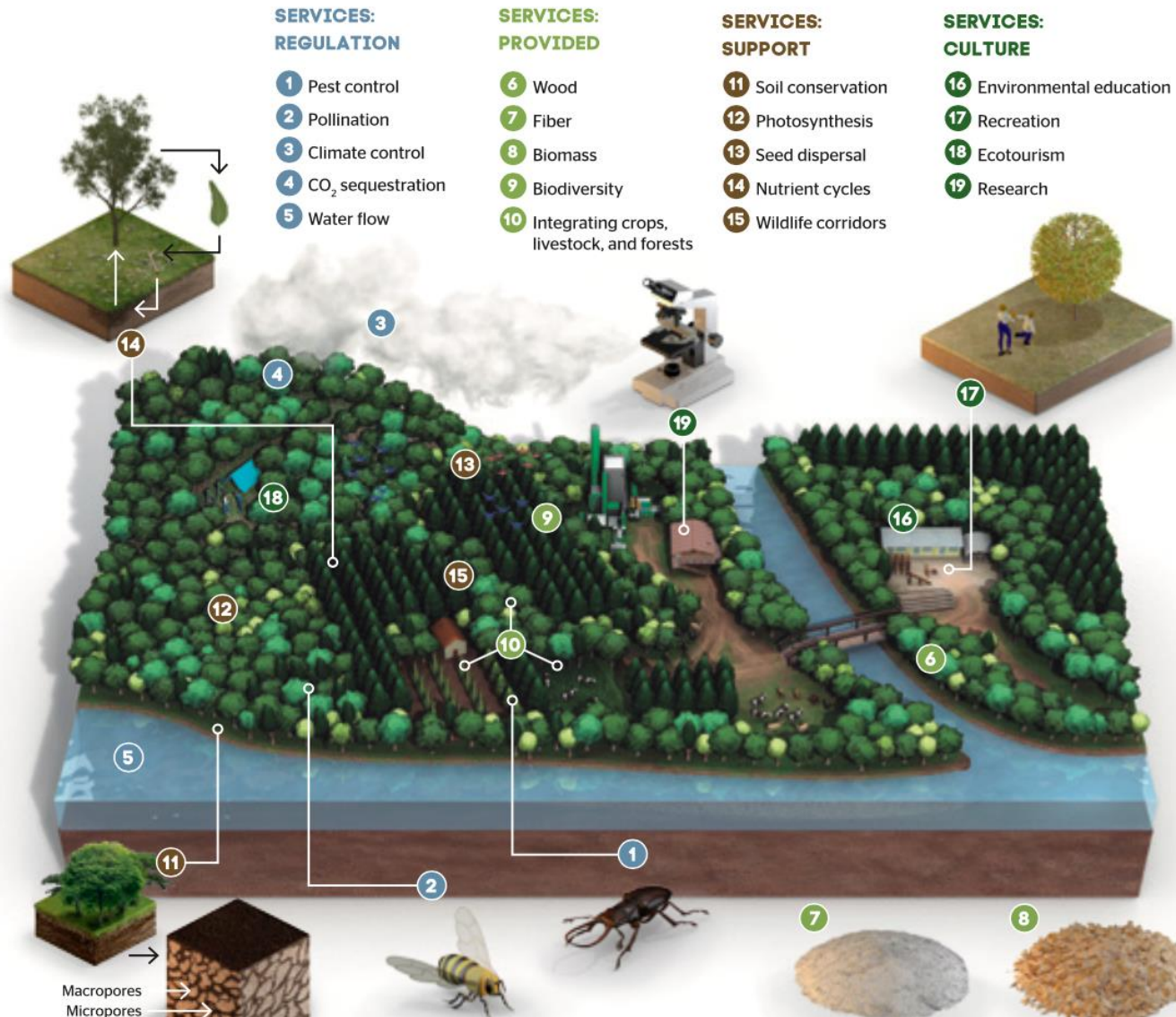
SUSTAINABLE INTENSIFICATION

"Sustainable intensification: An approach to produce higher levels of forest ecosystem services from the same area of land while decreasing the negative environmental, social and cultural impacts of forestry production."

Proposed definition for sustainable intensification in forestry from Tim Payn, lead scientist at New Zealand research institute Scion, based on IIED (2015) Sustainable Intensification Revisited.

- **Landscape stewardship - novel governance mechanisms**
- **Land-use planning - forestry & agriculture connected**
- **Management - precision forestry, agriculture & restoration**

ECOSYSTEM SERVICES







POSITIVE IMPACT

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.

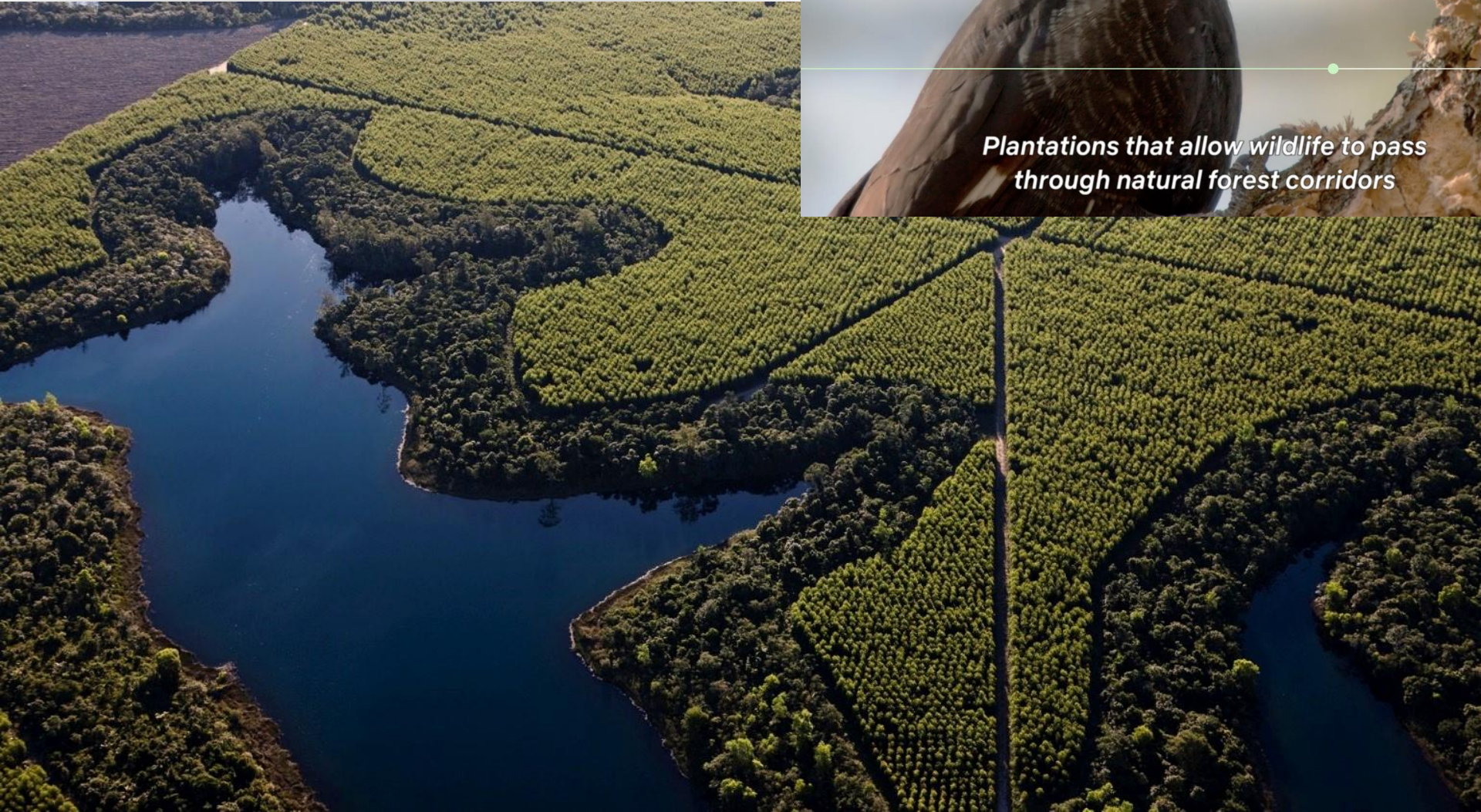
Ecosystem services	Provision of ecosystem services from planted forests in relation to:			
	 Native forests	 Native grasslands	 Managed pasture	 Agriculture
Provisioning services				
Food production	↓	↓	⊖	↓
Timber production	↑	↑	↑	↑
Medicines	↓	↓	↑	↑
Freshwater	↓	↑	↓	↑
Regulating services				
Fresh air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

BIODIVERSITY



Plantations that allow wildlife to pass through natural forest corridors



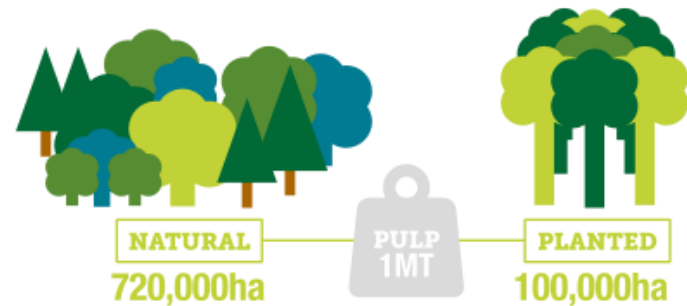
A large grid of diverse human faces, representing various ethnicities, ages, and genders, surrounds a central white rectangular box. The faces are arranged in a grid pattern, with some faces partially obscured by the central box. The central box contains the text "WHY PLANTATIONS?" in green, bold, uppercase letters.

WHY PLANTATIONS?

WHY PLANTATIONS?

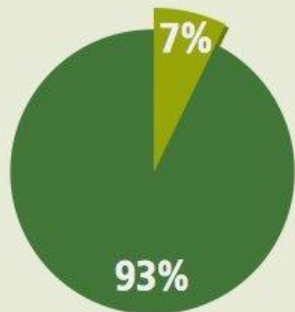
Logging from natural forests is 816 million m³ (26%) lower due to wood from Plantations

(Buongiorno & Zhu, 2014)



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

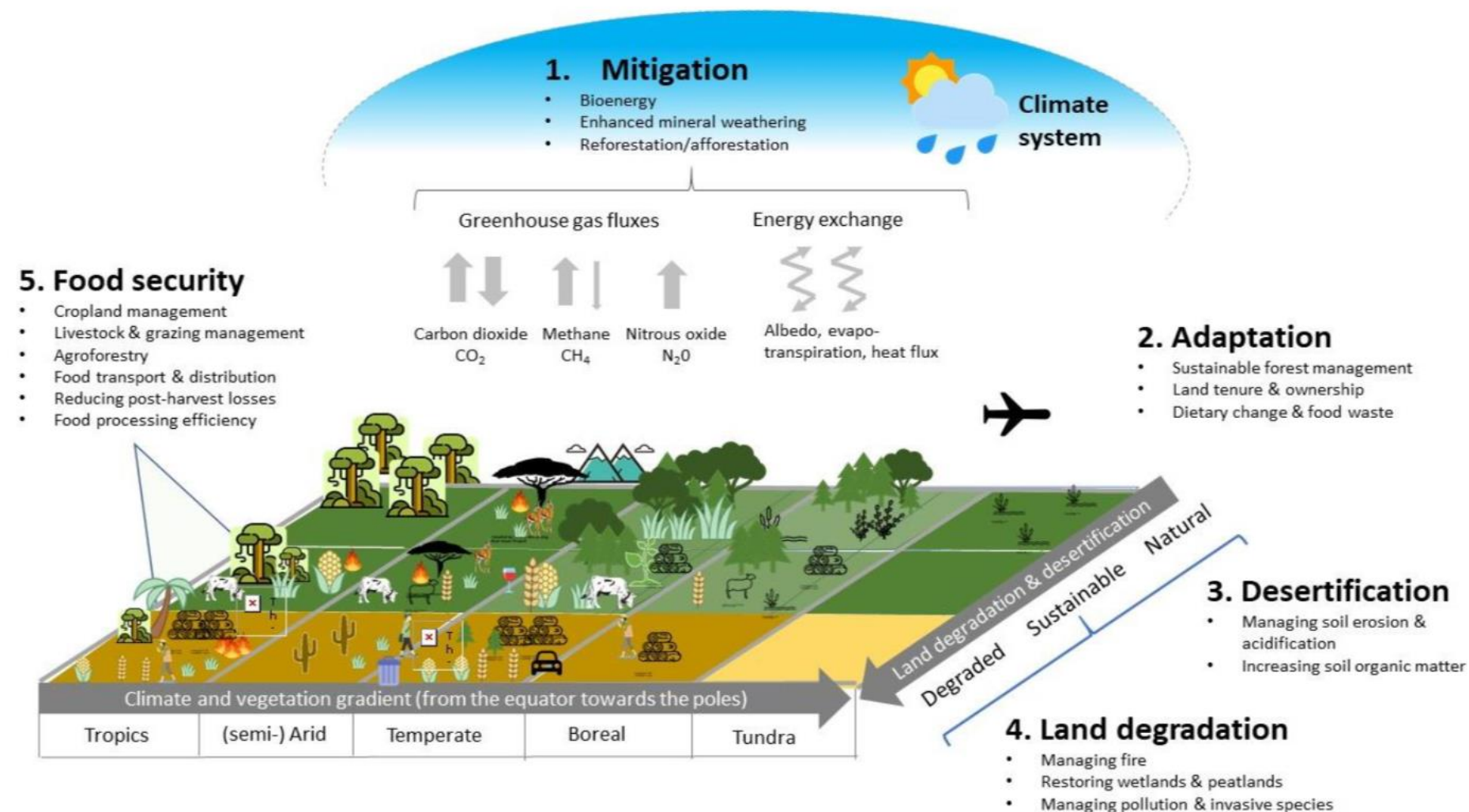
The bulk of the world's forest is natural forest.



Global forest area, 2015

- Planted forest area
- Natural forest area

Production, restoration, mitigation: a new generation of plantations



BETTER FARMING = MORE FORESTS



newgenerationplantations.org