

LANDSCAPE LEVEL RESILIENCE

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CONSERVATION
INTERNATIONAL



NATURE AND PEOPLE



BIODIVERSITY

- Prevent Extinctions
- Develop Protected Areas



PROTECTED AREAS

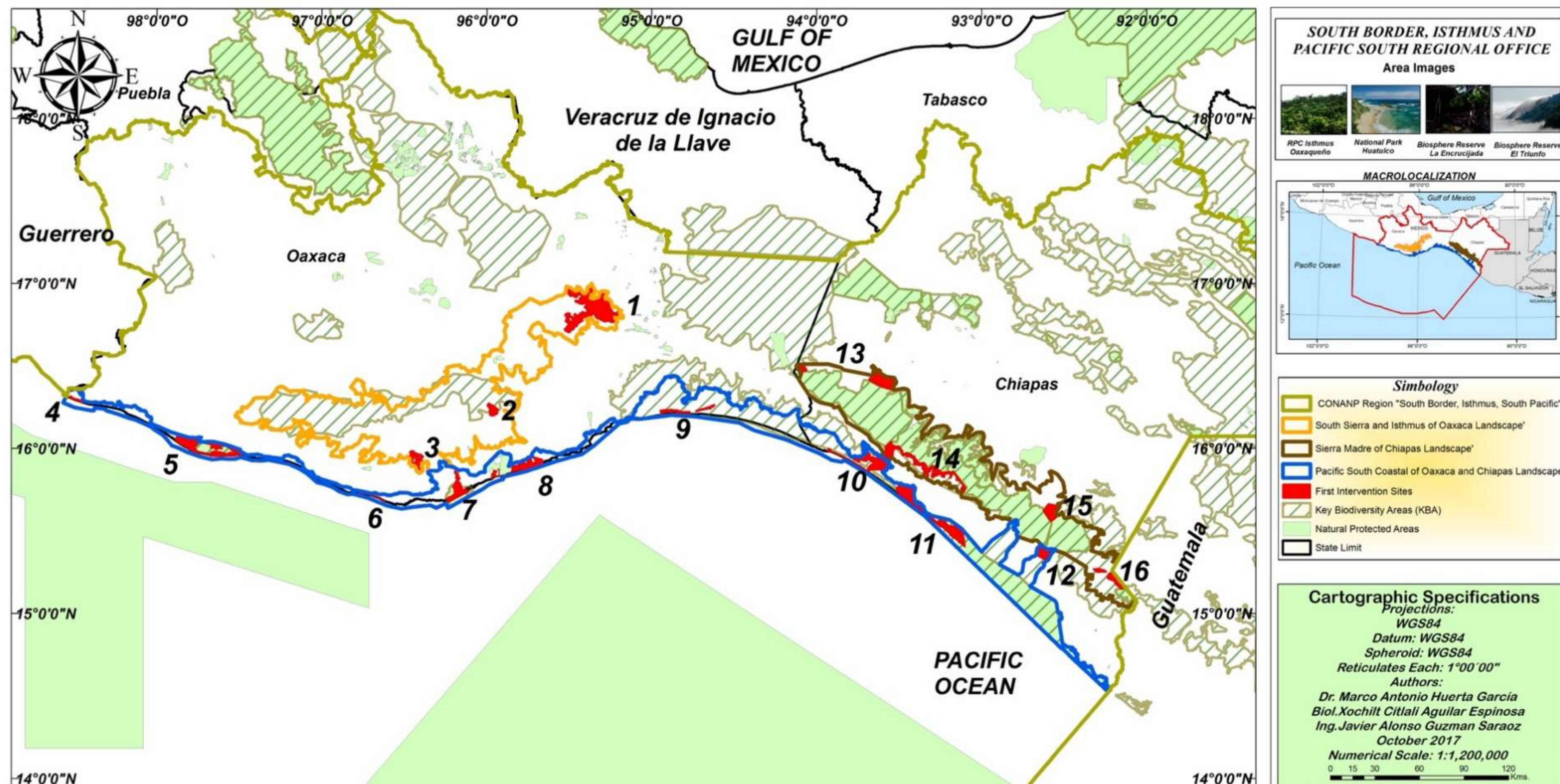
- Manage and finance PAs
- Engage communities in PAs



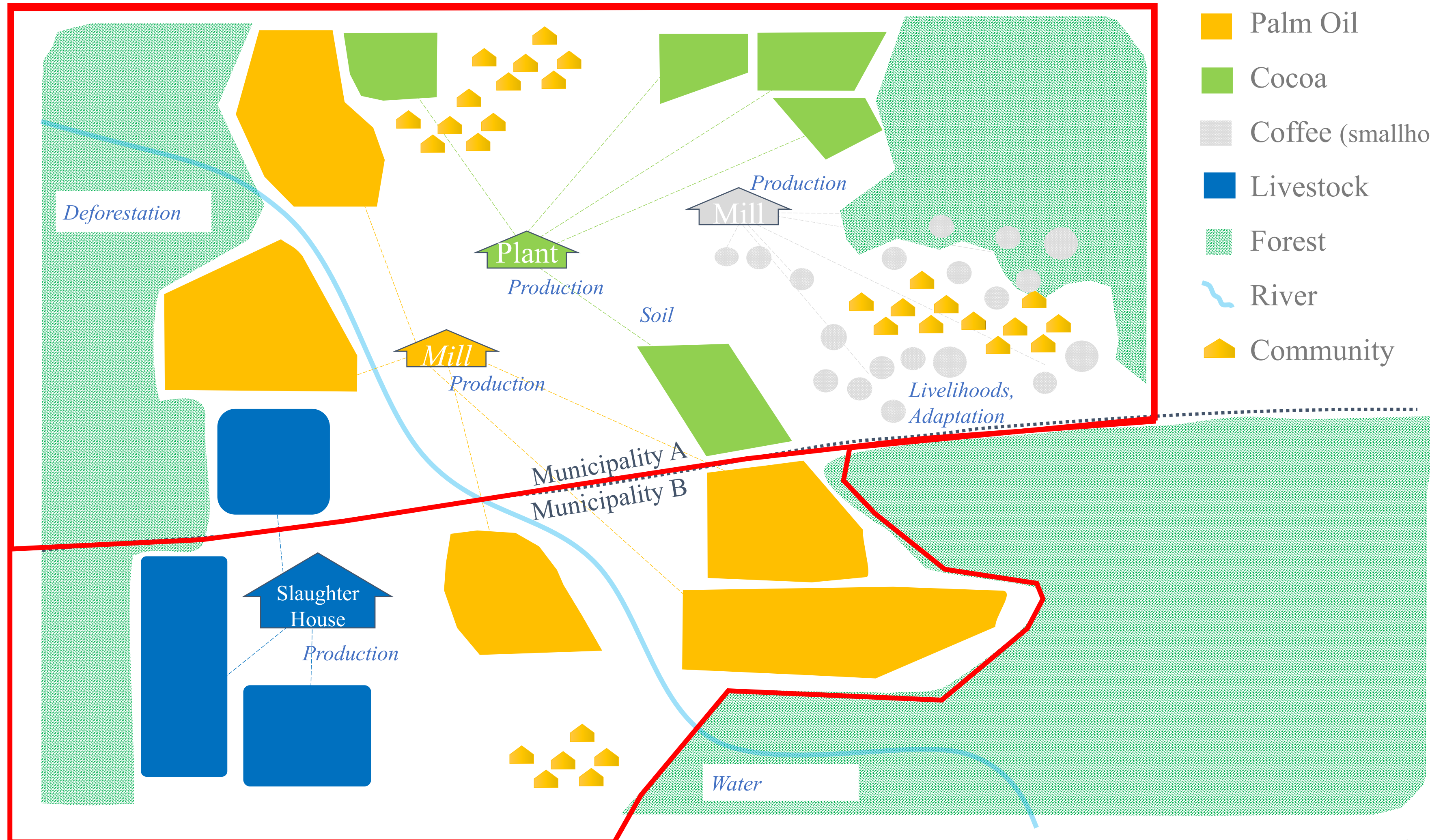
SUSTAINABLE LANDSCAPES

- Connect ecosystems to development, society
- Address nature-agriculture relationship

CI – CONANP GEF PROJECT OAXACA – CHIAPAS LANDSCAPES

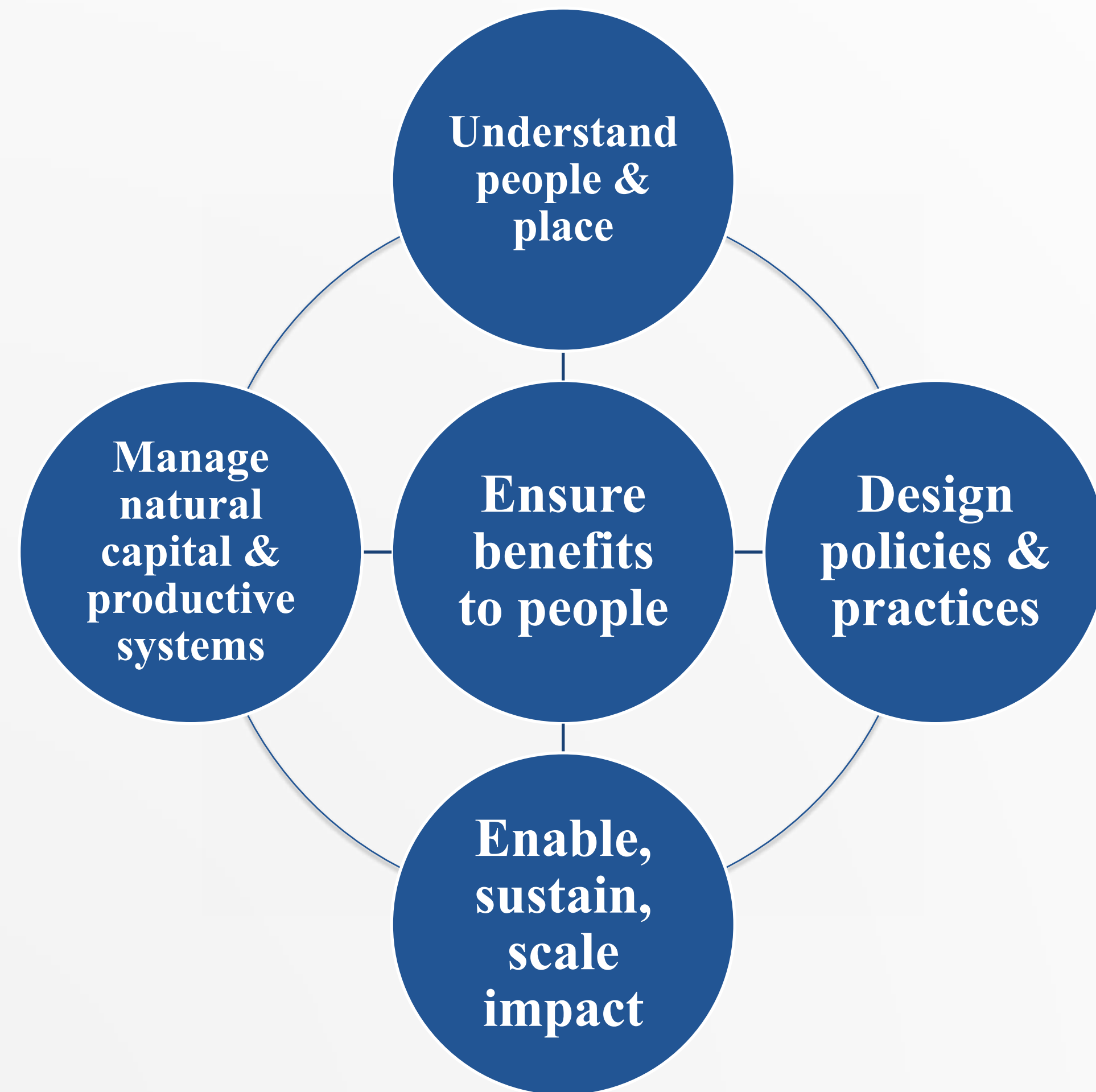


LANDSCAPES



Source: Verra. (2018). Landscape Standard

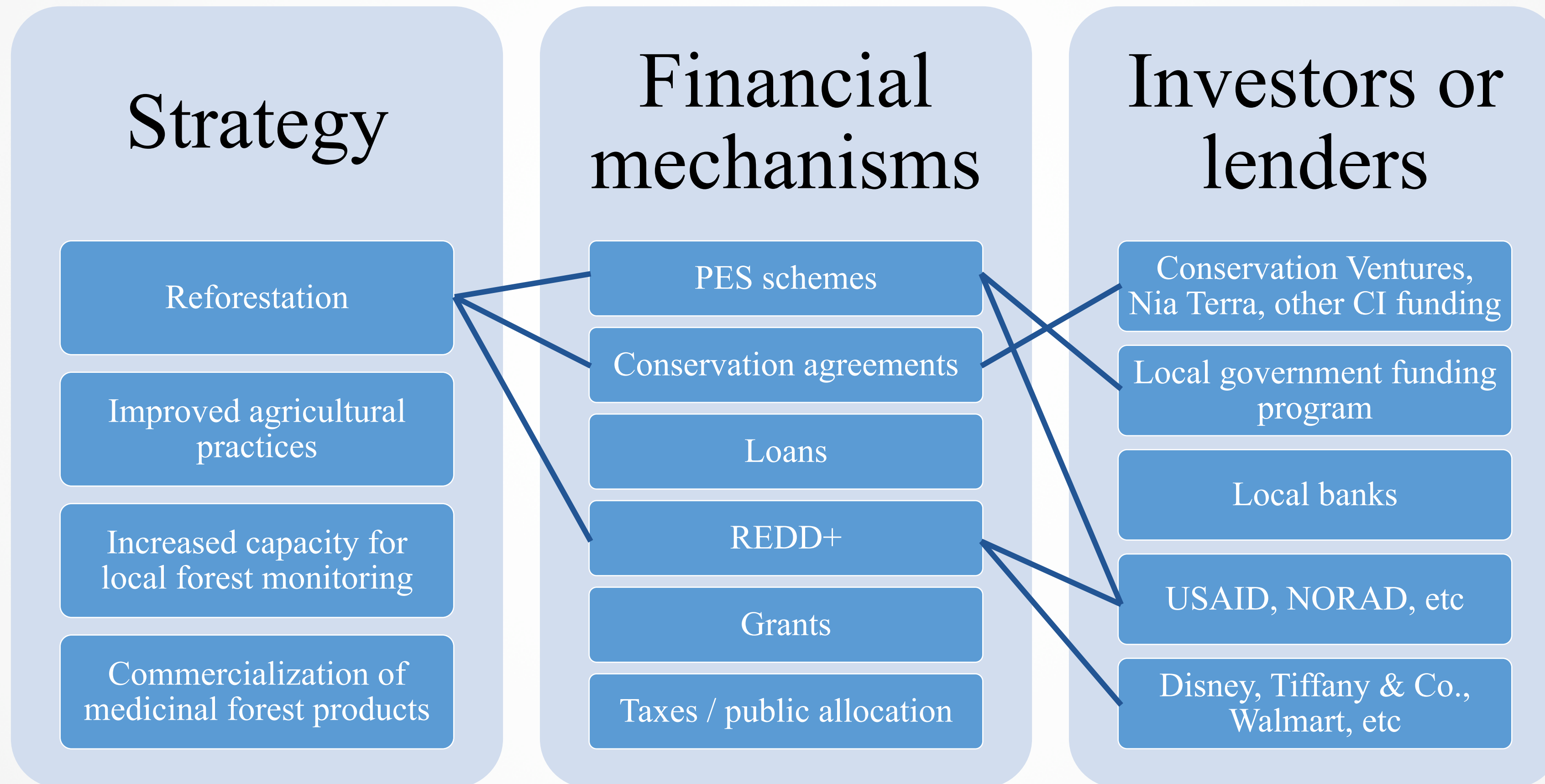
5 ELEMENTS



SUSTAINABLE LANDSCAPE APPROACH: PHASES



PHASE 3: LANDSCAPE INVESTMENT PLAN

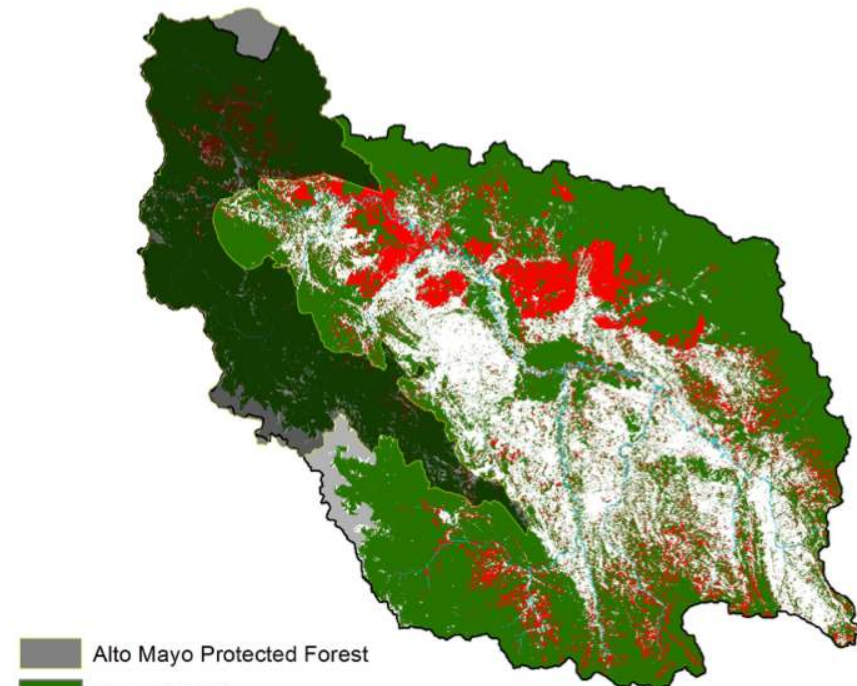


SUSTAINABLE LANDSCAPES SCORE CARD

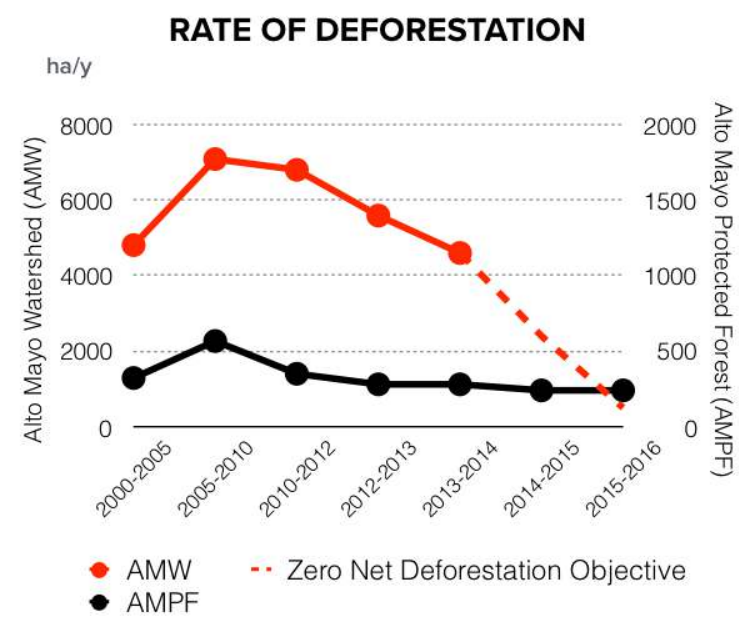
ALTO MAYO WATERSHED, SAN MARTIN, PERU State of Natural Capital, Production & Human Well-Being

ALTO MAYO WATERSHED

The Alto Mayo River Basin of San Martin covers approximately 780,000 ha and is home to approximately 222,000 inhabitants.

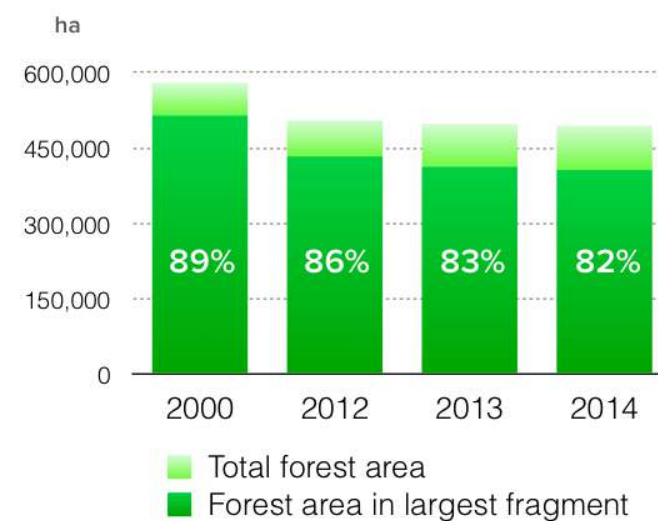


NATURAL CAPITAL



14% of the forest cover lost since 2000
19% of deforestation from 2000-2014 due to coffee
30% actual decrease in deforestation inside the AMPF since the start of the REDD+ implementation

FRAGMENTATION

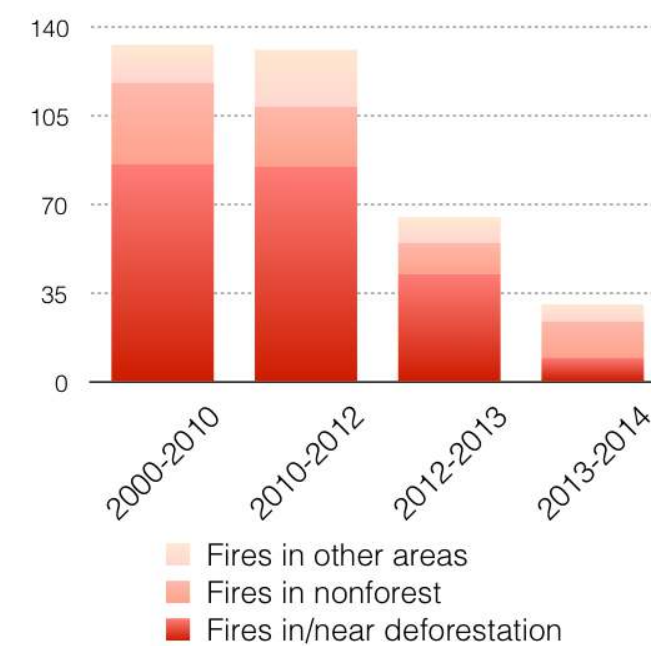


Deforestation can lead to forest fragmentation which decreases habitat connectivity.

The forests of the AMW are being affected by frontier deforestation, which does not lead to extensive fragmentation. Deforestation mainly occurs along the eastern boundary of the forest extent as agricultural areas expand north and west.

Source: PNCBMCC-MINAM

FIRES PER YEAR

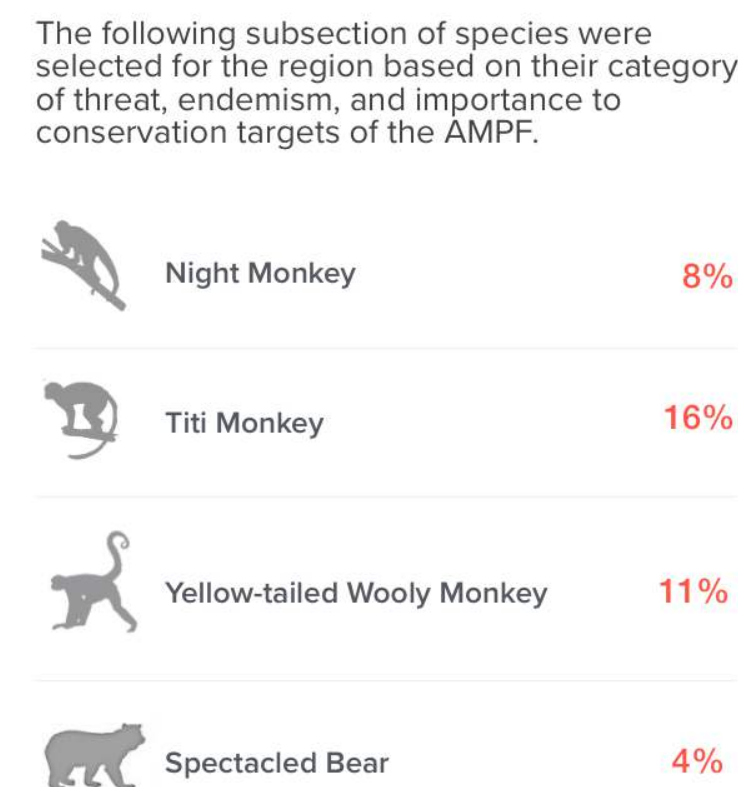


The majority of fires occurred in agricultural fields. Although illegal in the Alto Mayo Watershed, fires are commonly used to clear fallow land.

Source: NASA MODIS Active Fires

KEY SPECIES

% of primary habitat lost since 2000 in the AMW

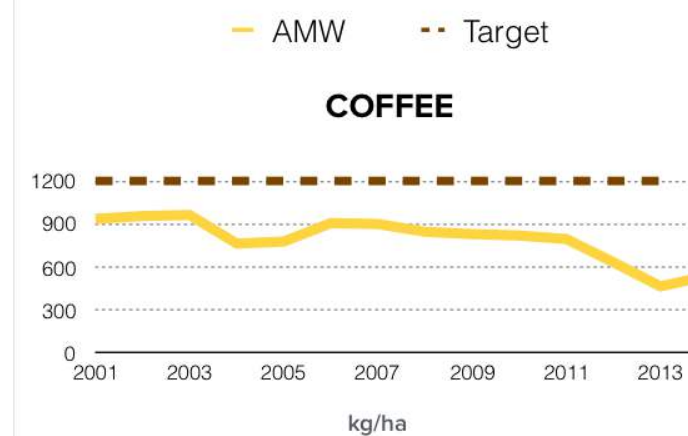


Source: IUCN/Global Mammal Assessment/Rondinini

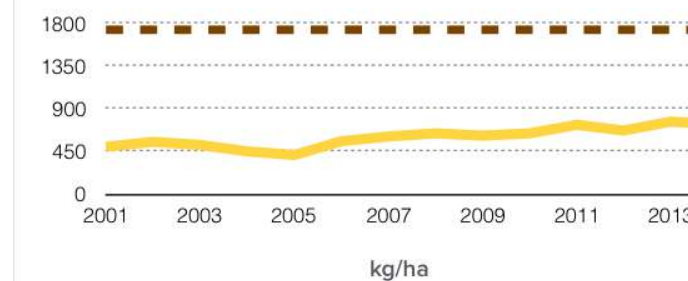
PRODUCTION

AGRICULTURAL COMMODITIES

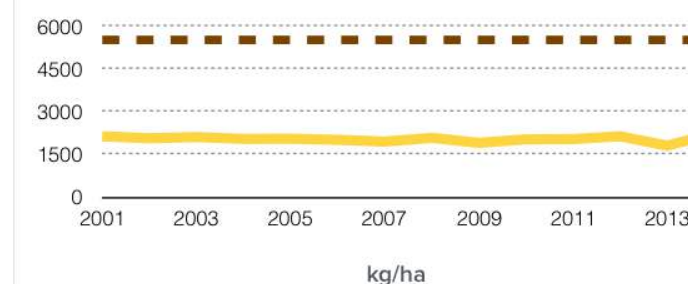
The following represents the yields of major agricultural crops of the Alto Mayo Watershed since 2001. A threshold indicating the sustainable scenario is also shown.



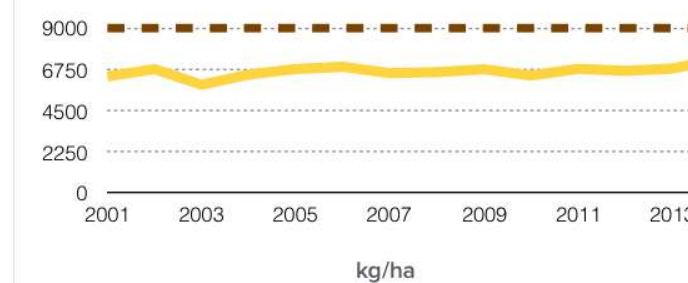
COCOA



MAIZE



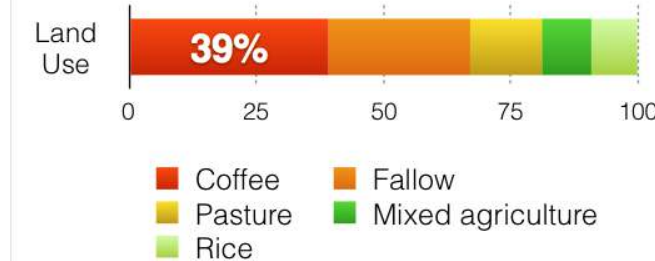
RICE



Source: Direccion Regional Agraria San Martin (2001–2014)

LAND USE

In a set of sample points randomly distributed across areas of deforestation, 39% of points fell on land converted to coffee farms.



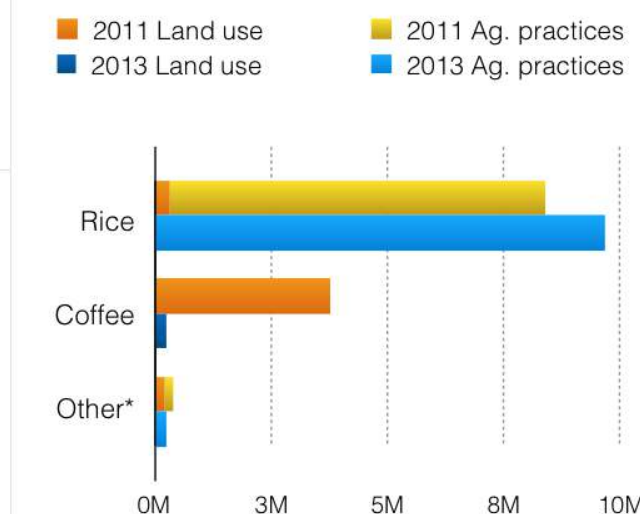
Although coffee represents the top agricultural product of the AMW region, particularly in the provinces of Moyobamba and Rioja, yields have been steadily decreasing since 2000 due to adverse weather conditions and diseases.

Source: Conservation International

GHG EMISSIONS

The following presents the GHG emissions calculated from the major income sectors of the AMW for the years 2011 and 2013.

The majority of GHG emissions are attributed to rice production, which releases methane gas (CH₄) from wetland paddies, considered to have approximately 25x greater impact to global warming than carbon dioxide (CO₂). The second largest contributor to GHG emissions is coffee, primarily due to the deforestation activities associated with preparing cropland.

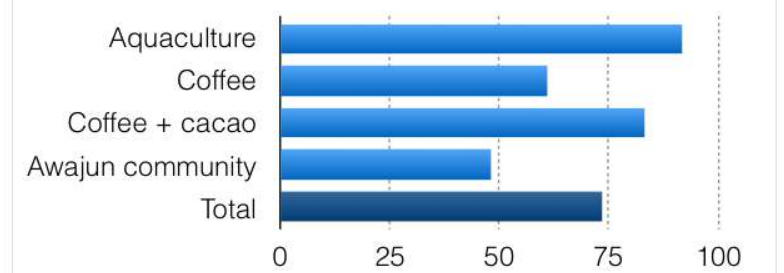


* Includes: cocoa, maize, pasture, timber, and brick making
Source: Conservation International

HUMAN WELL-BEING

PROGRESS OUT OF POVERTY

The Progress out of Poverty Index (PPI) is a poverty measurement tool used to determine the likelihood that a household is susceptible to poverty, or is currently living below a national or international poverty line. The following represents the percentage of beneficiaries, per SLP pilot project, who live above the national poverty line.

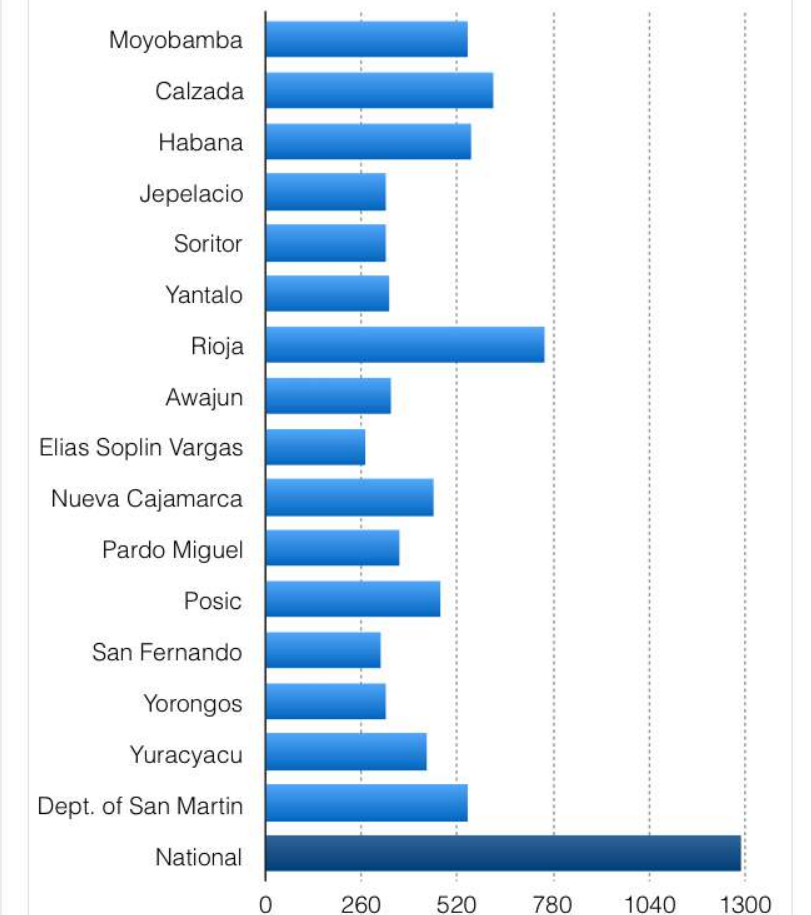


Approximately 26% of beneficiaries of the SLP currently live below the national poverty line.

Source: Progress out of Poverty, Grameen Foundation

National v.s. regional average monthly income (N.S./month)

The following represents the average monthly income of the districts in the AMW.



* Exchange rate for December 2012: 1 USD = 2.55 NS
Sources: Conservation International, exchangerates.org.uk