

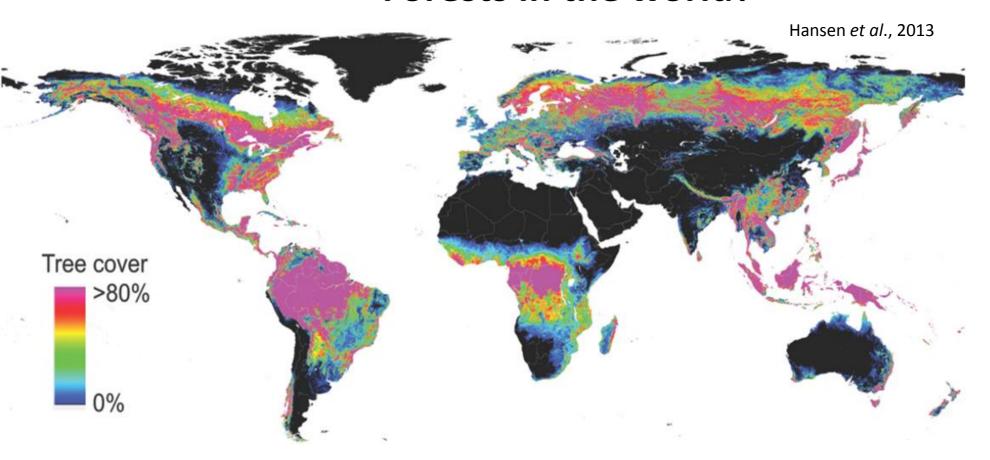


Gembloux Agro-Bio Tech Université de Liège

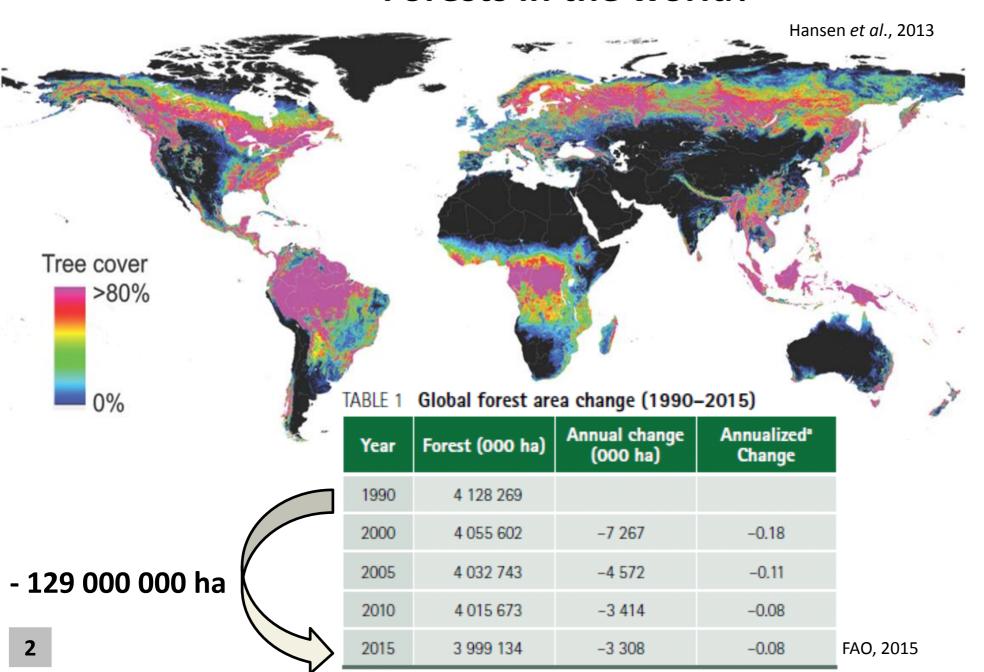




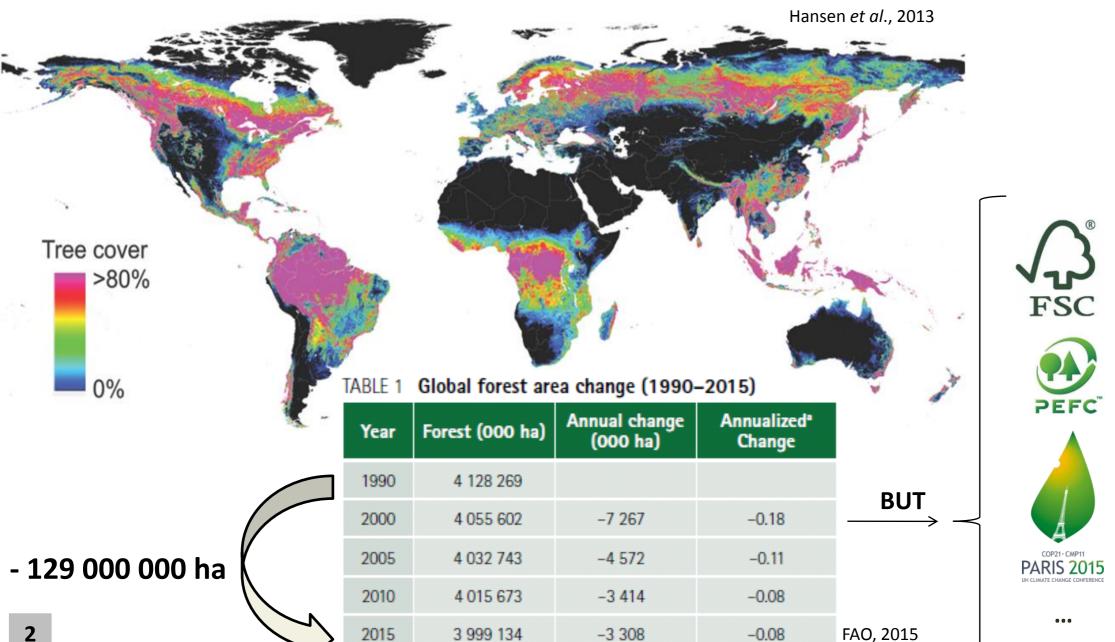
Forests in the world?



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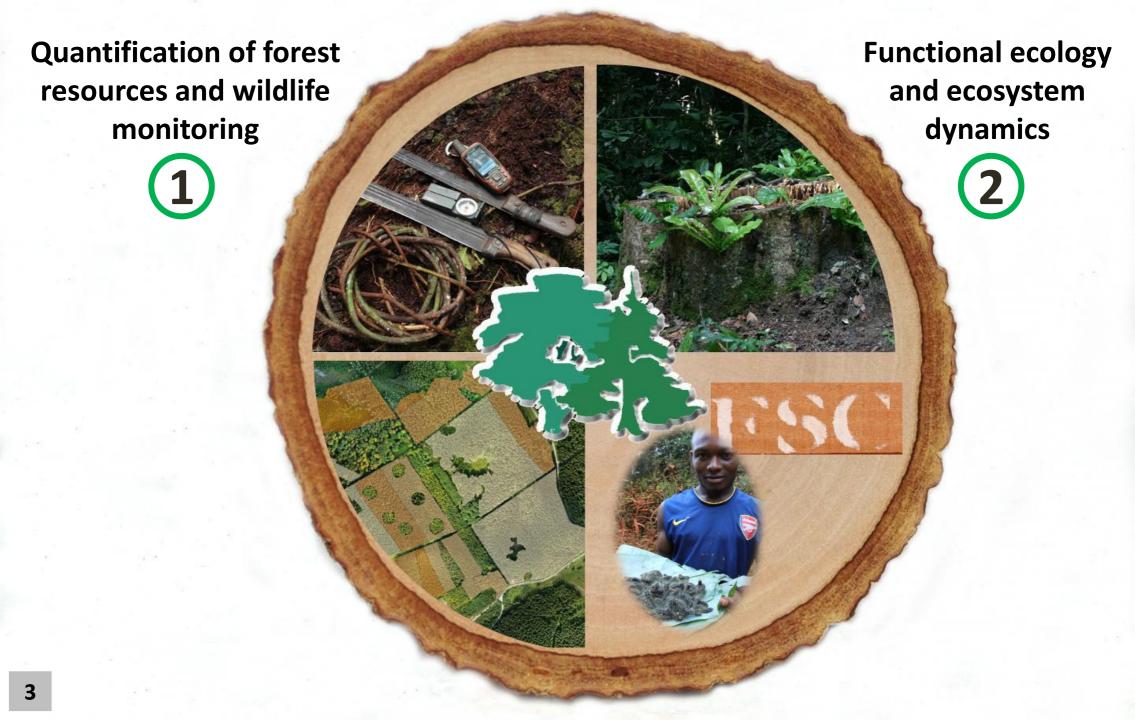
Forests in the world?

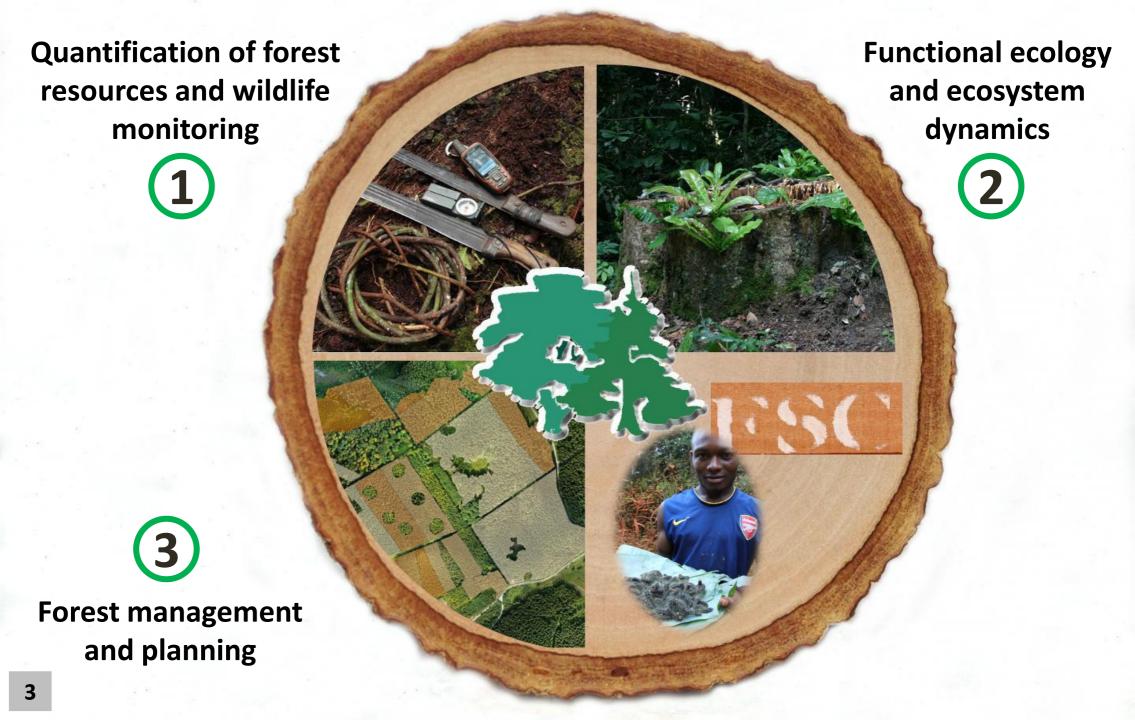


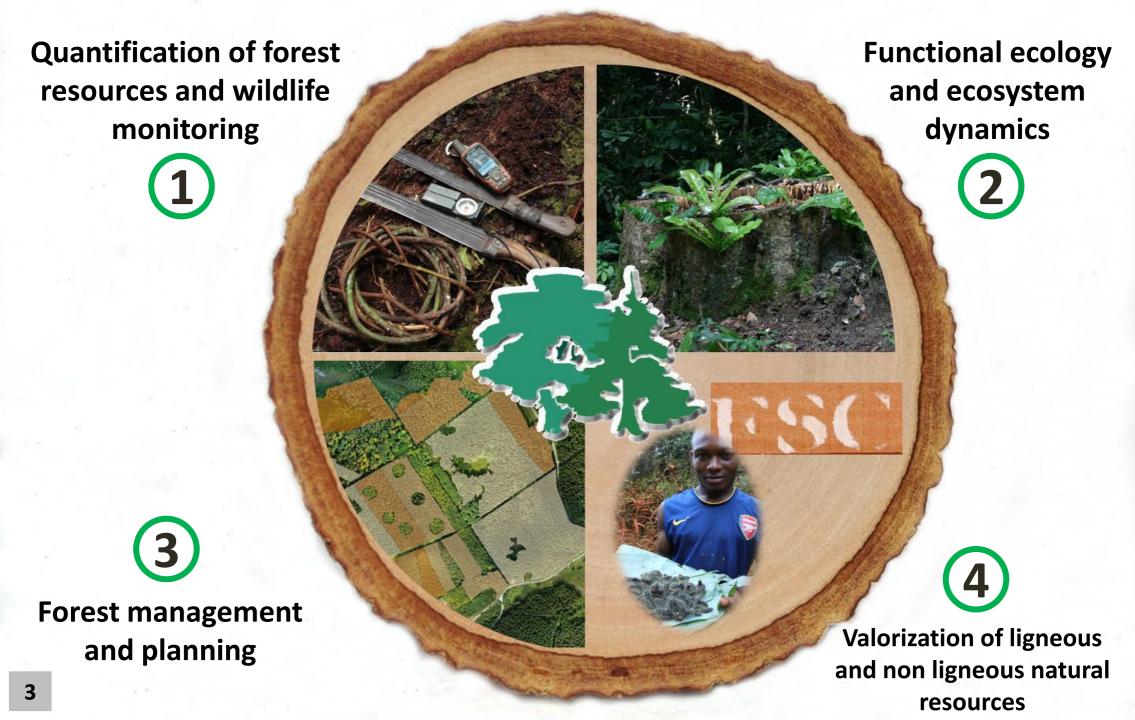












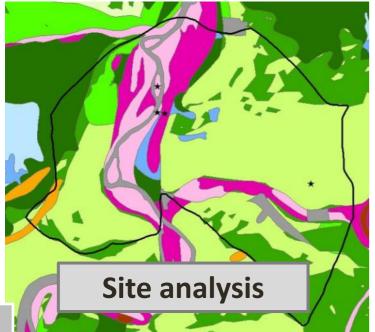
1 Quantification of forest resources and wildlife monitoring

1) Quantification of forest resources and wildlife monitoring

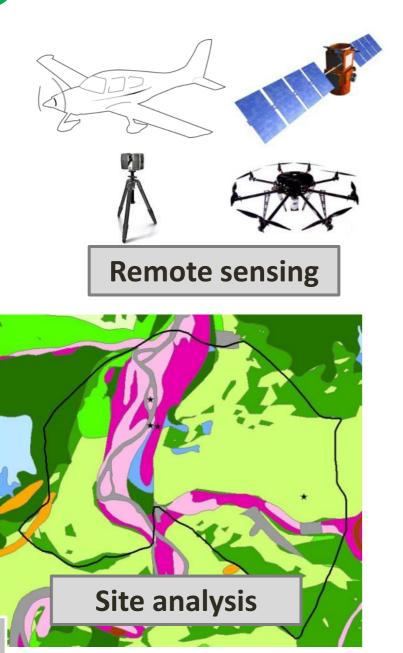


1 Quantification of forest resources and wildlife monitoring

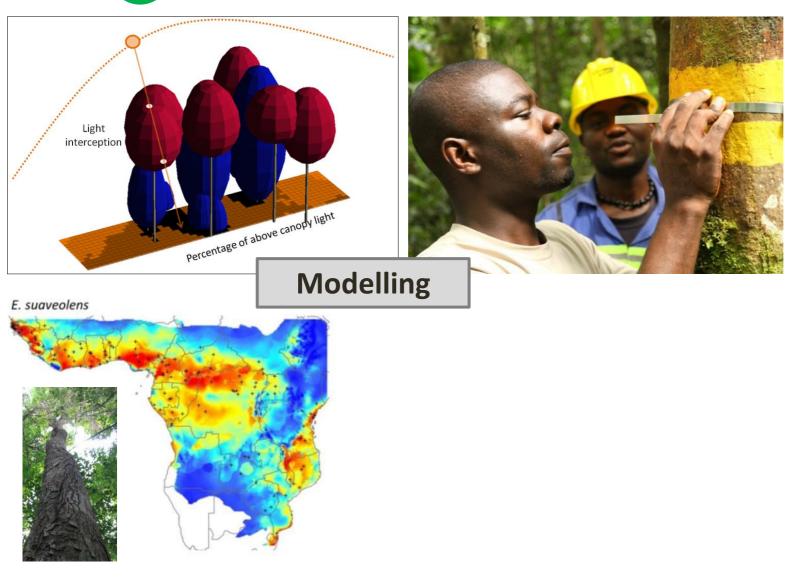


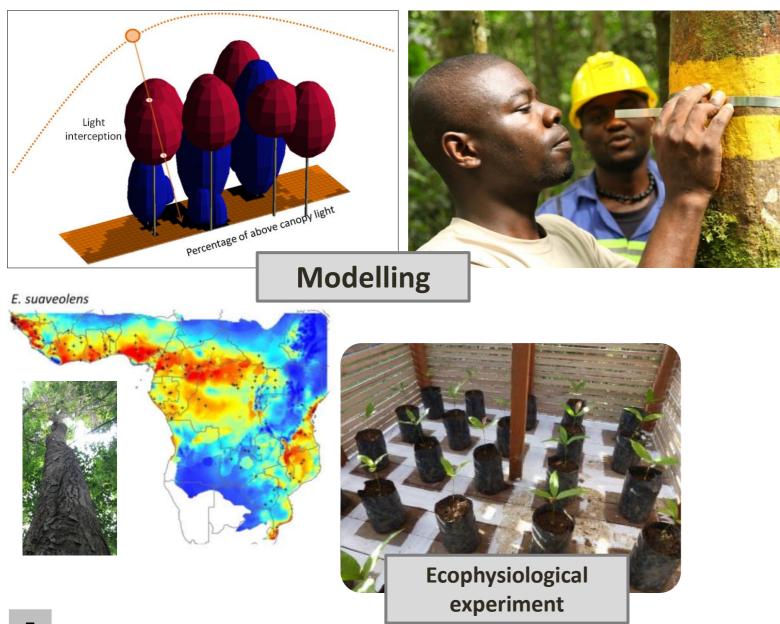


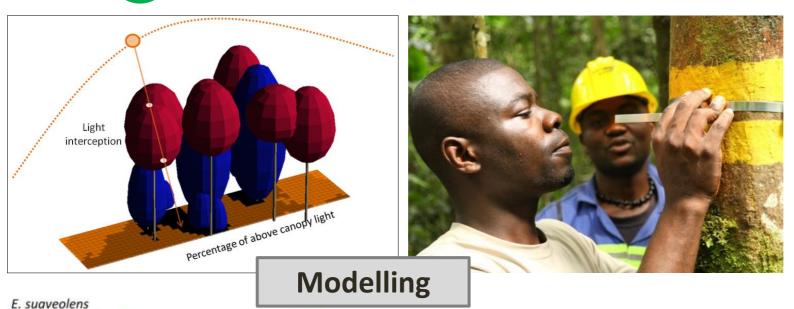
(1) Quantification of forest resources and wildlife monitoring



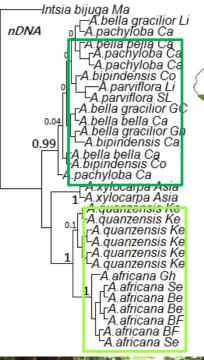




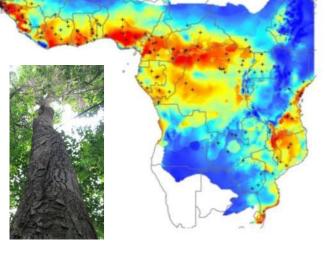




Genetics

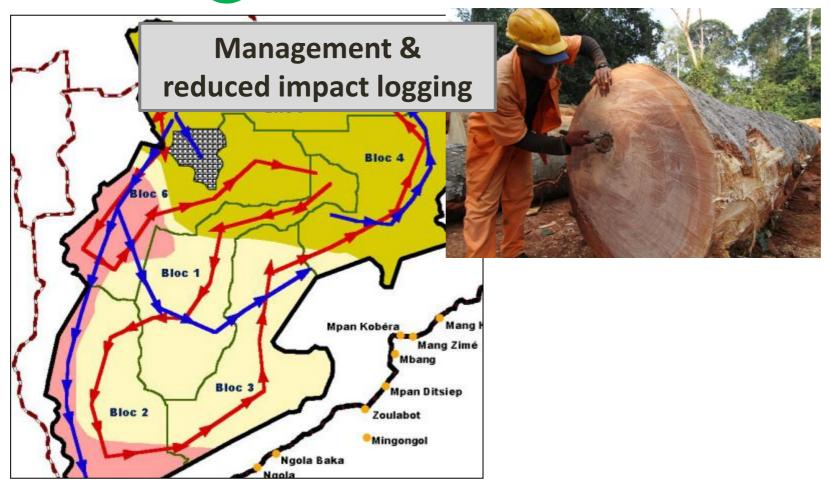


















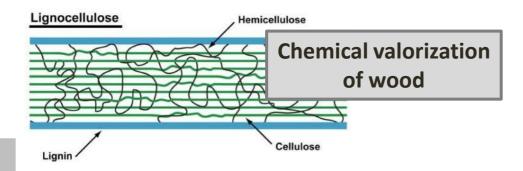
(4) Valorization of ligneous and non ligneous natural resources



Valorization of ligneous and non ligneous natural resources



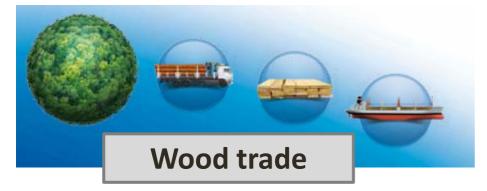


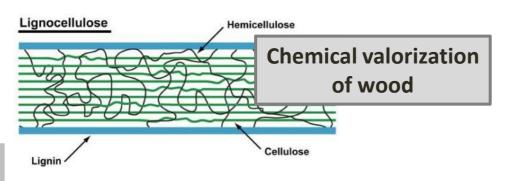




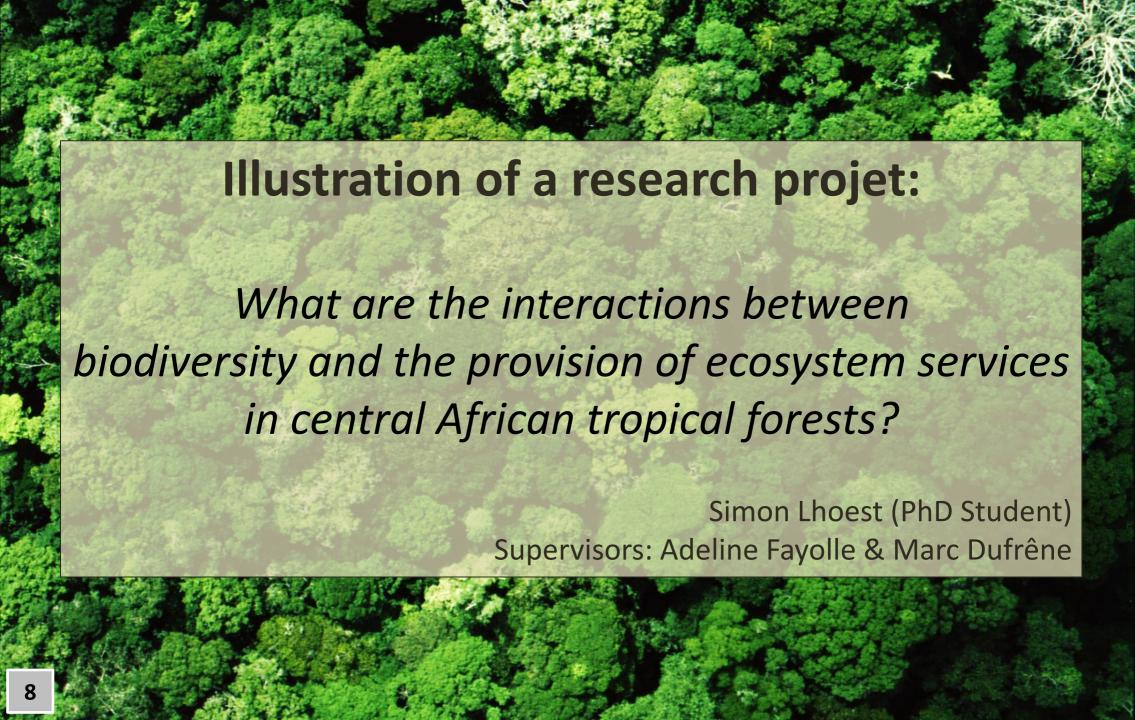
Valorization of ligneous and non ligneous natural resources













But...

Logging intensification &

Deforestation



Ecosystem services in tropical forests: 6.800.000.000.000 \$/year

Costanza et al., 2014

But...

Logging intensification &

Deforestation



Land use change = main threat for biodiversity in the tropics

Ecosystem services in tropical forests: 6.800.000.000.000 \$/year

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But...

Logging intensification & Deforestation

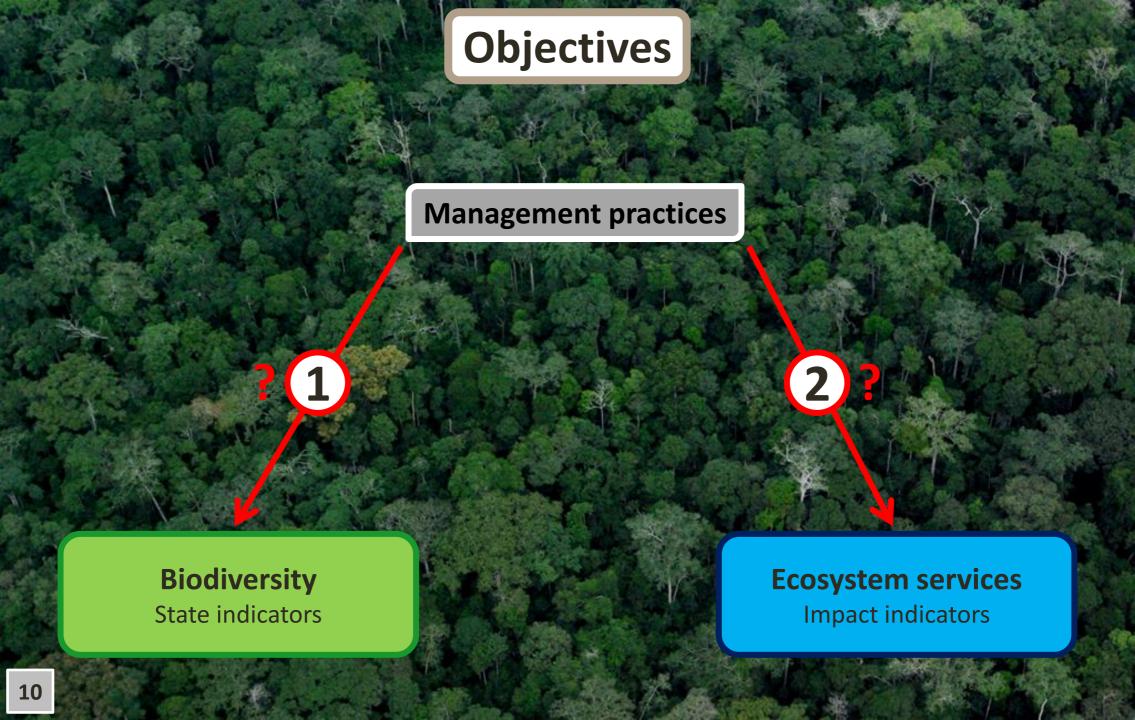


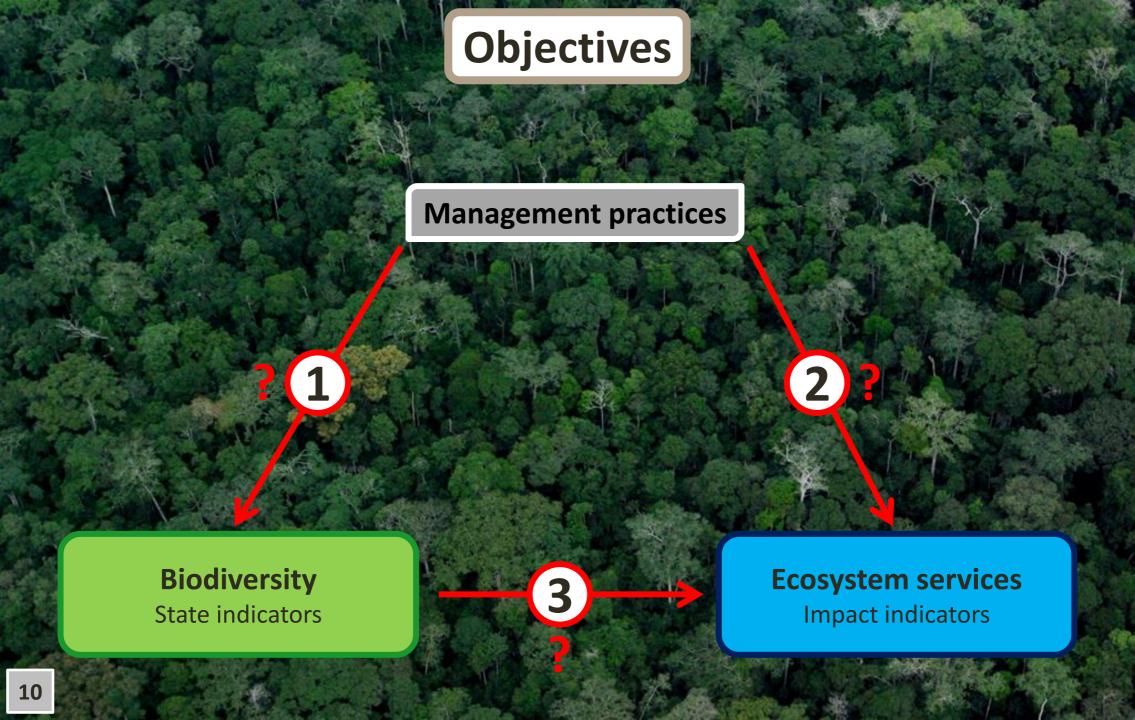
Land use change = main threat for biodiversity in the tropics

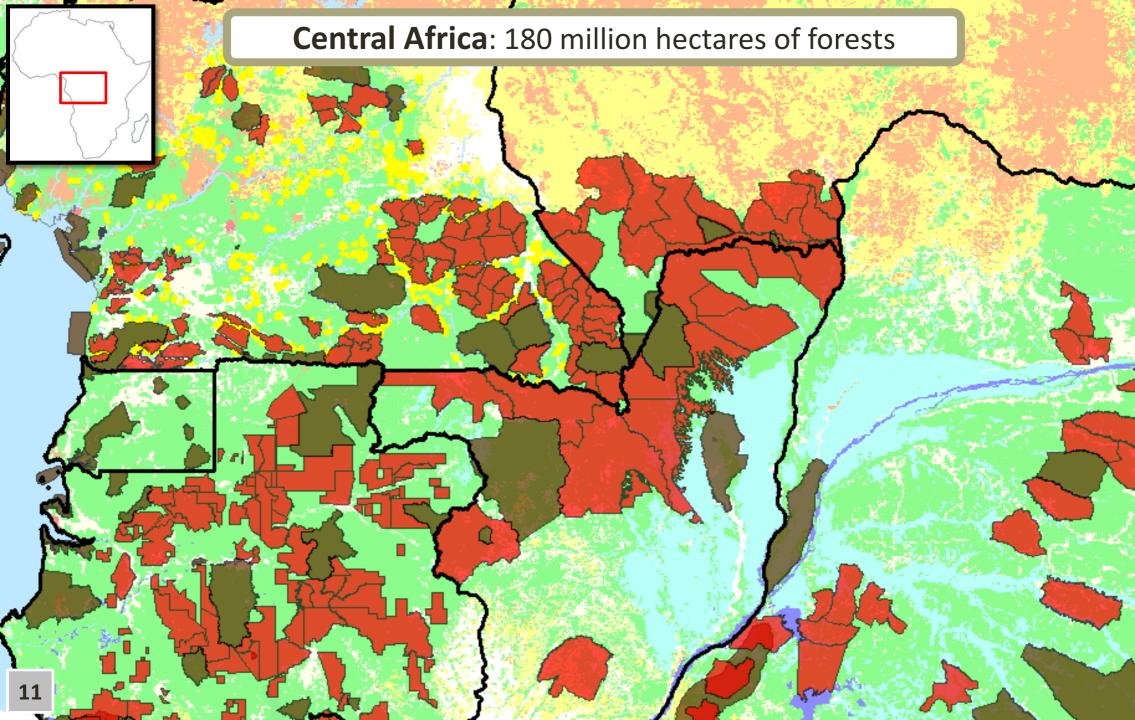
Sustainability and « value » of current management practices?

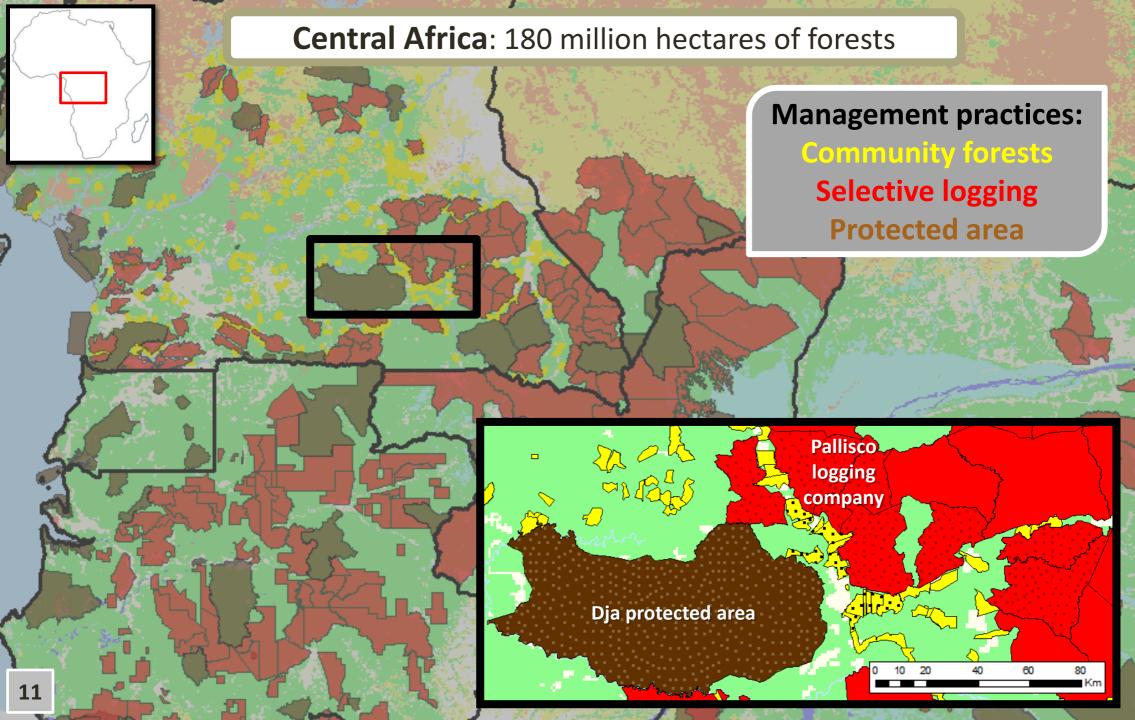


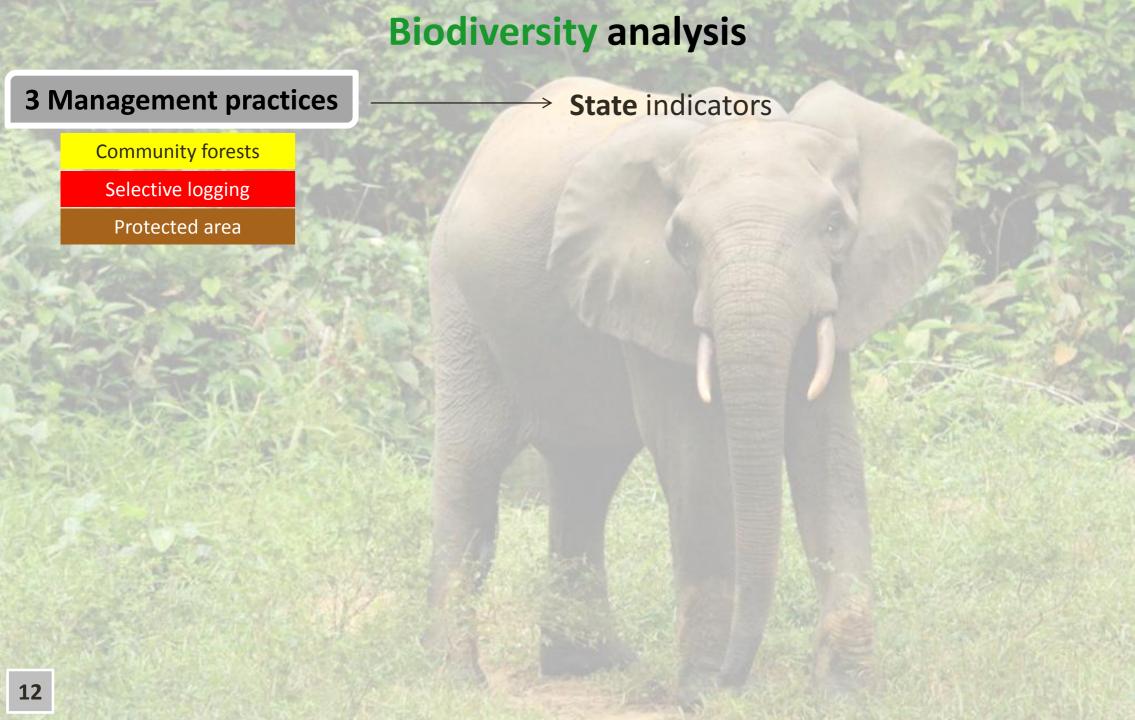


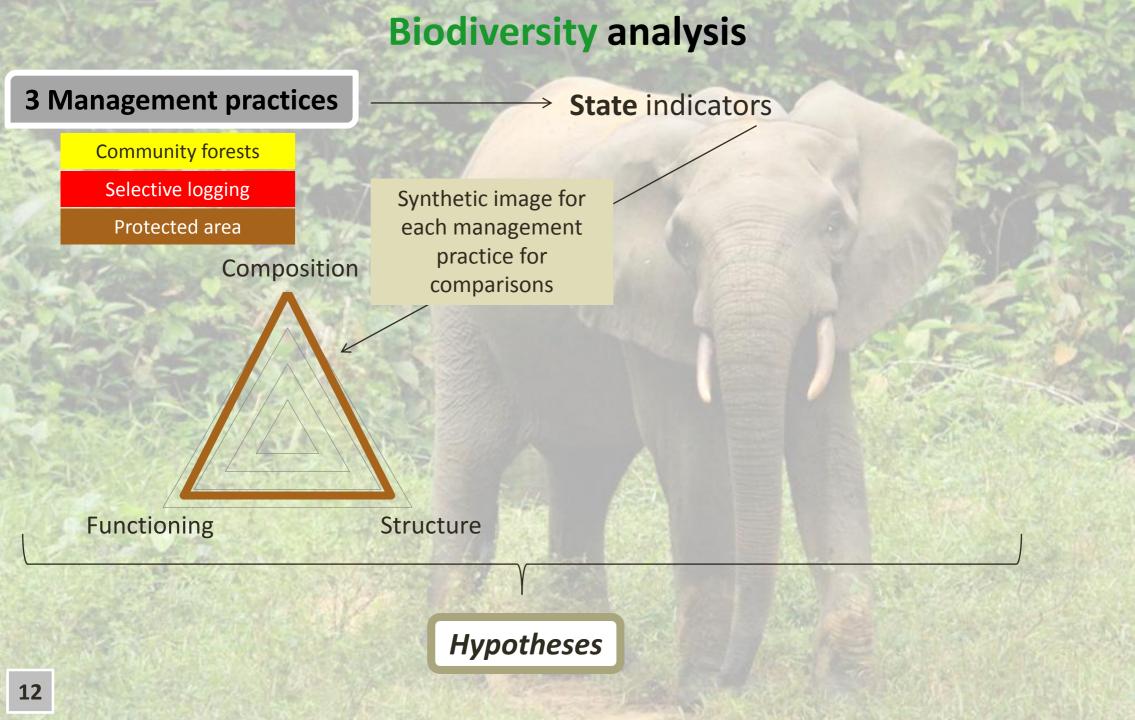




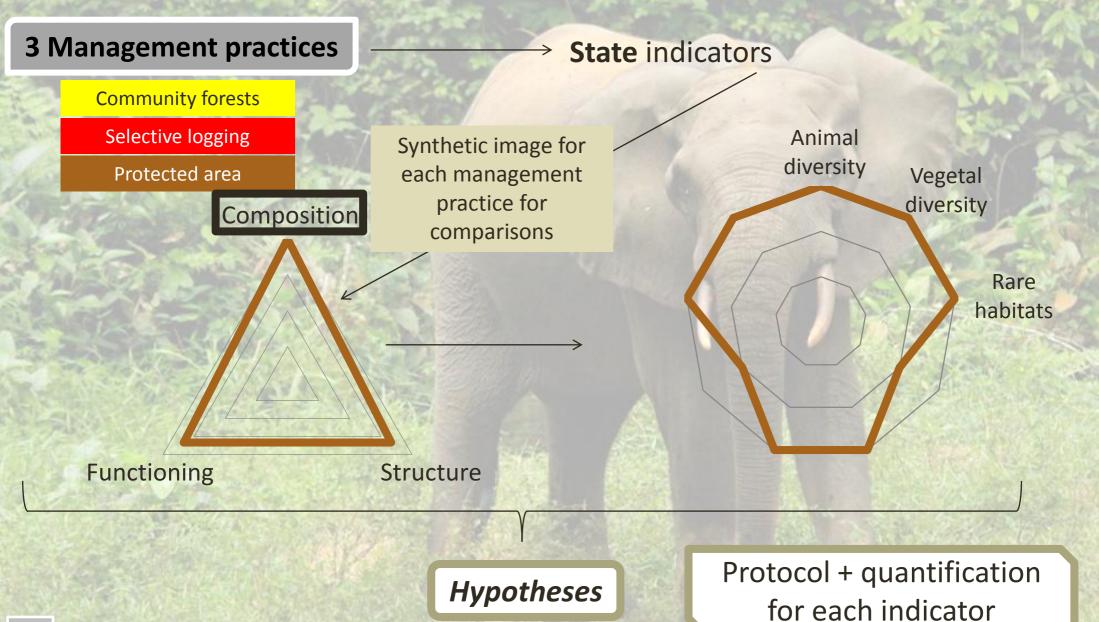




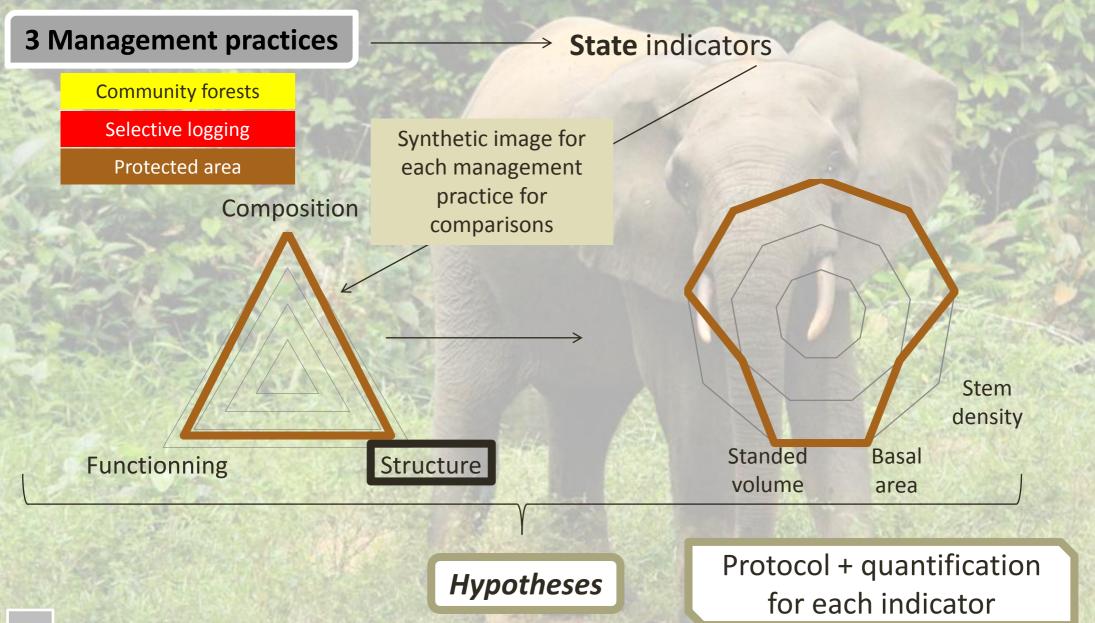




Biodiversity analysis

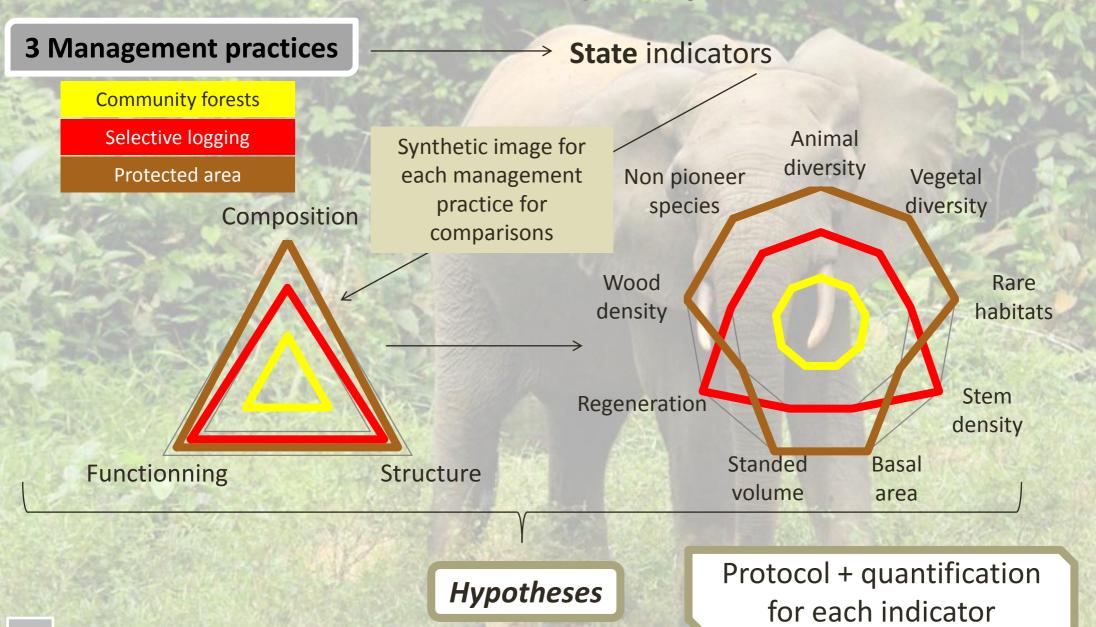


Biodiversity analysis



Biodiversity analysis 3 Management practices **State** indicators **Community forests** Selective logging Synthetic image for Protected area each management Non pioneer practice for species Composition comparisons Wood density Regeneration **Functionning** Structure Protocol + quantification **Hypotheses** for each indicator

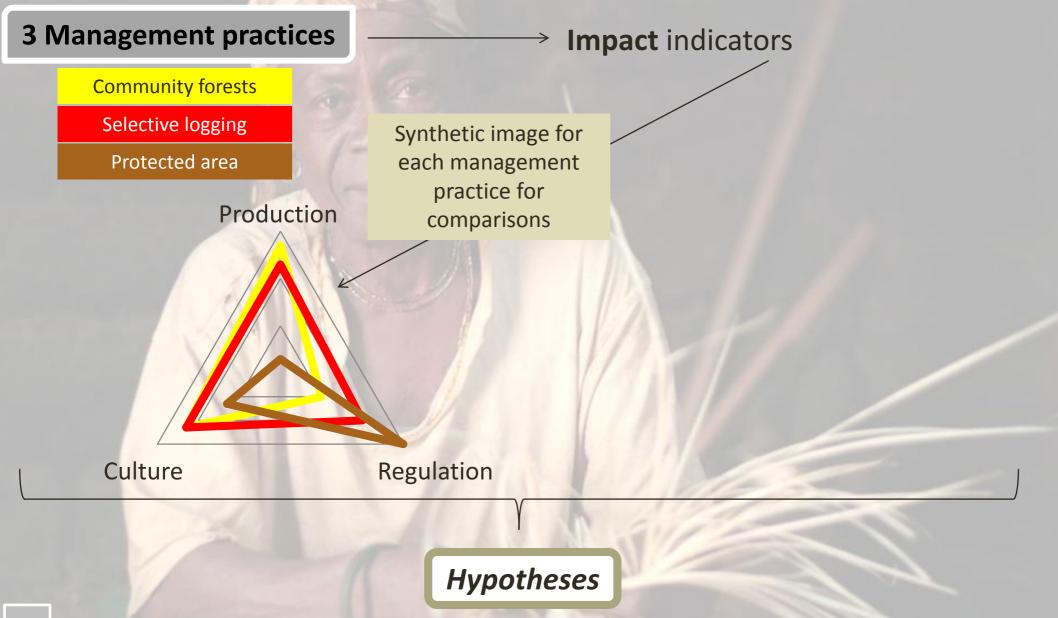
Biodiversity analysis



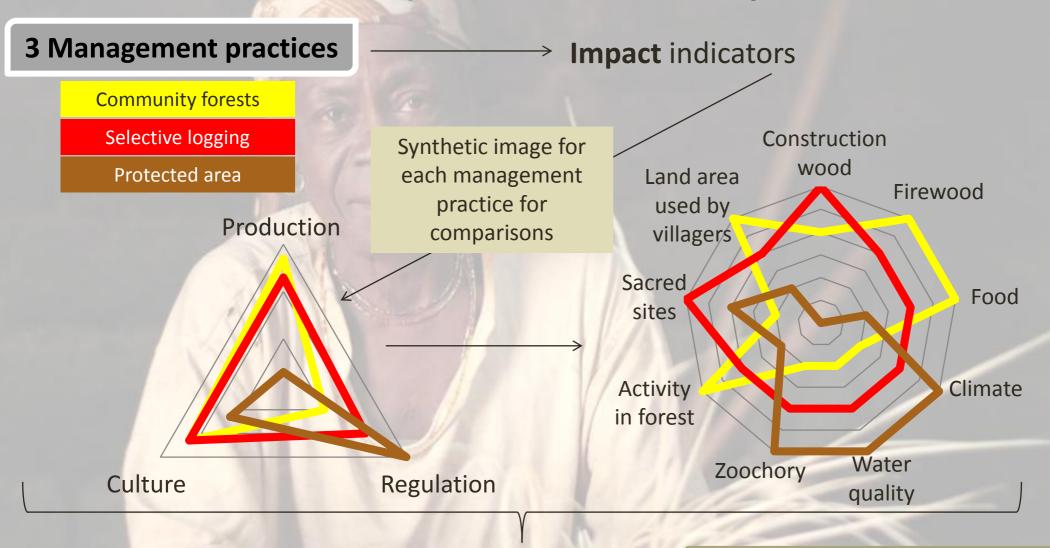
Ecosystem services analysis



Ecosystem services analysis



Ecosystem services analysis



Hypotheses

Protocol + quantification for each indicator



Data acquisition

Many research projects and studies in the region since the 90's... ... and many available databases! **Selective Logging General Data Protected Area** Community Forests Wildlife inventories **Functional traits** databases Floristic Forest inventories inventories Socio-economic data Logging inventories Logging tables

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