



plangea.earth

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ASTRATEGIC
APPROACH TO
LAND USE

We should take strong efforts in ecosystem **restoration** and conservation to halt the biodiversity loss and climate change.

Holistic spatial planning is key to achieving positive outcomes for nature and its contributions to people.

On the PLANGEA Web interactive map, users can choose from customisable criteria to optimise the prioritisation:

Biodiversity Conservation:



- species' extinction risk;
- ecoregions' risk of collapse;
- impacts on ecosystems' integrity.

Cost Minimisation:



- restoration implementation costs;
- opportunity costs.

Climate Change Mitigation:



net values
 of carbon
 sequestration
 (restoration)
 and emission
 (conversion).

In addition to the prioritisation map, the benefits and costs are presented in graphs, tables, images, and reports.

"These findings can help develop national strategies to implement the new Kunming-Montreal Global Biodiversity Framework adopted at COP-15"

- Neil Burgess, Head of the Science Programme of the UNEP-WCMC

PLANGEA Web is a decision support platform developed by International Institute for Sustainability (IIS) to simulate, visualise and explore priority areas for ecosystem restoration and conservation to different scenarios.



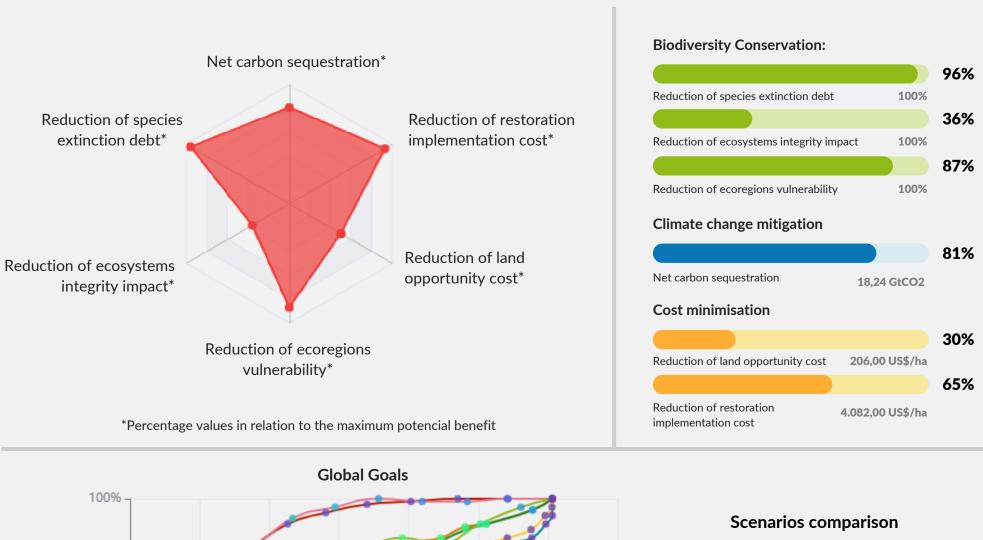
These graphs were generated based on the following parameters:

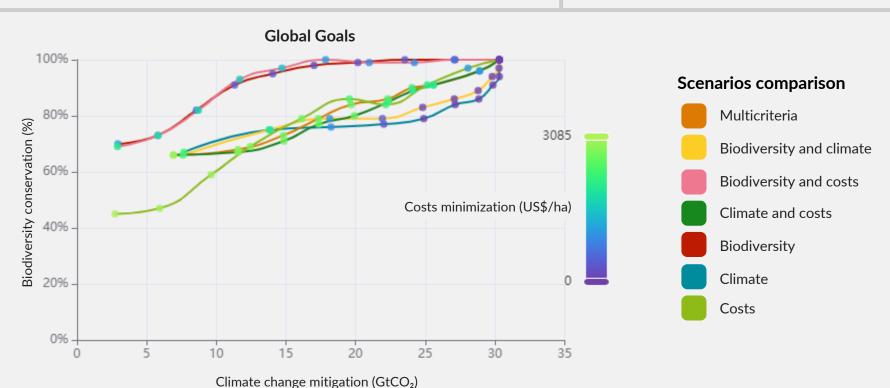
Prioritisation focus: Restoration;

Action target: 30%;

Spatial scale: Global;

Optimisation criteria: Biodiversity conservation, Climate change mitigation and Costs minimisation.





Considering the spatial scale (global), these graphs show the results achieved in each action target, according to the possible scenarios generated from the combination of the entimication criteria

Current and potential applications:

recommendations
for the POST-2020
GBF about priority
areas for
conservation
and conversion;

alternative scenarios for agricultural trade;

socioeconomic opportunities for ecological restoration;

mitigation of mining impacts;

biodiversity conservation in private areas and more.

