

Sustainable Coastline Regeneration Using Nature-Based Solutions

a Case Study in Bintan

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Stabilise
coastline

Reduce risk
coastal
flooding

Carbon
Sequestration

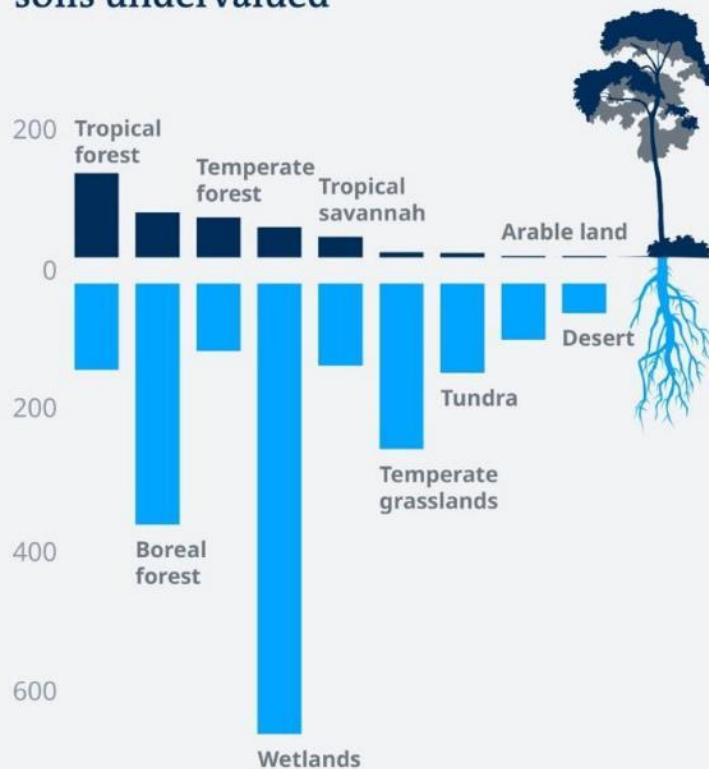


Biodiversity

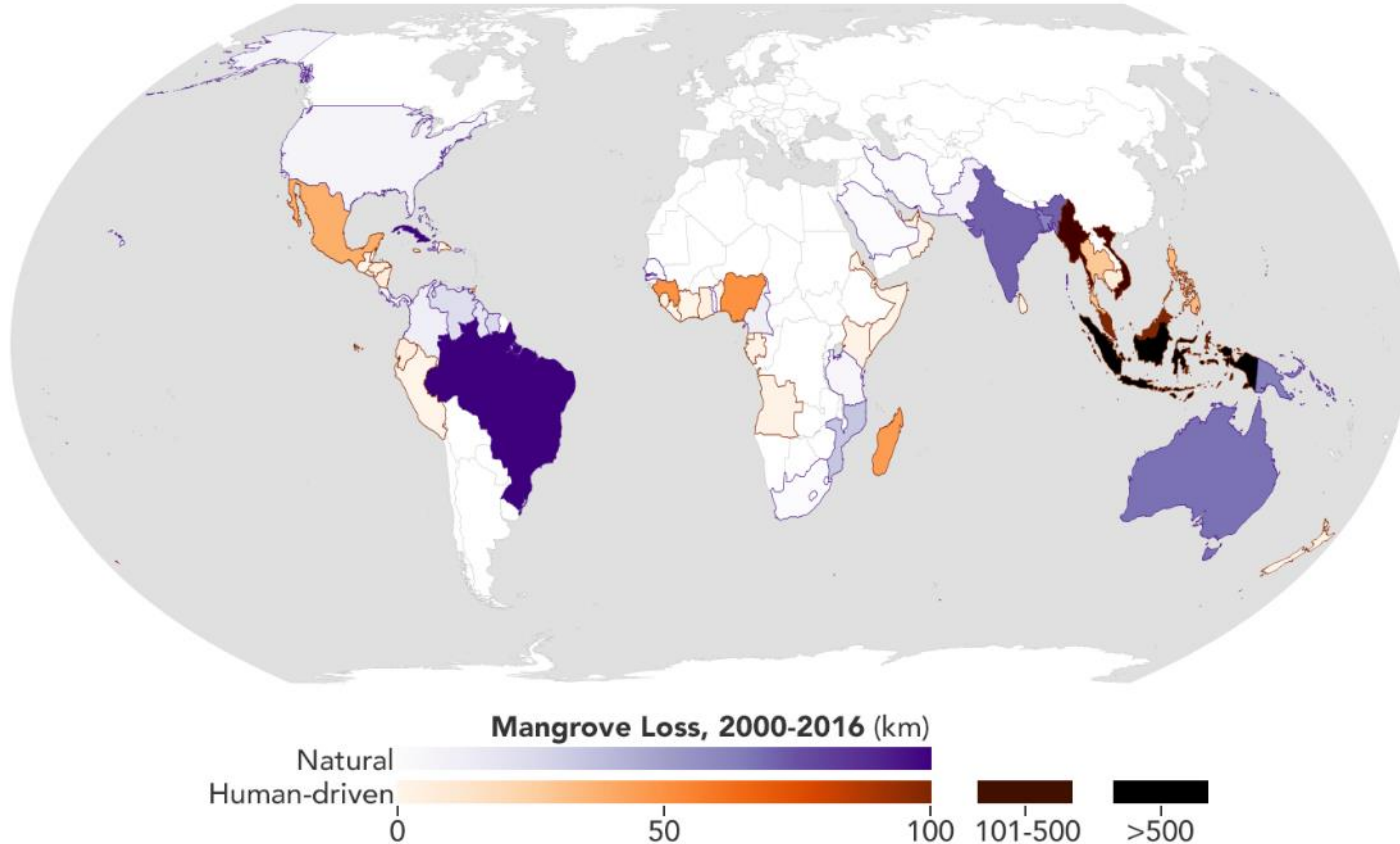
Protect
water
quality

Provides
Jobs and
Food

CO₂ storage: Flora overvalued, soils undervalued



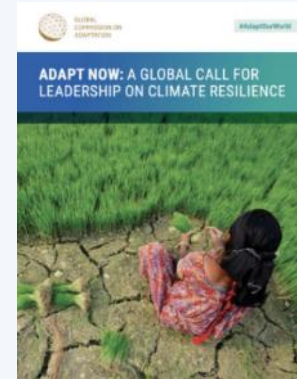
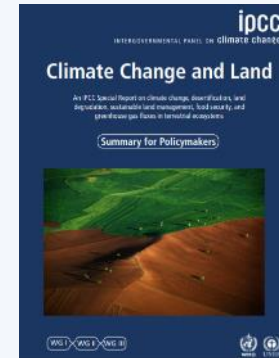
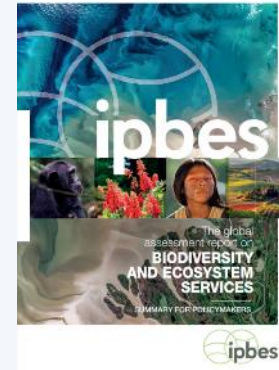
Average stored carbon in tons per hectare at a ground depth of one meter





Need for Nature-based Solutions

- NbS are endorsed in the Climate Change and Land Report of the IPCC, the IPBES Global Assessment, and the Global Adaptation Commission Report.
- However, there is still a barrier to NbS implementation because of lack of accessible funds, lack of awareness and limited evidence on its effectiveness in addressing climate impacts.
- There is a need to increase evidence on NbS effectiveness by implementing and monitoring NbS.





Local communities learn how to plant



Reverse land degradation



Possibly increase biodiversity



Sequesterate Carbon



Gain knowledge on success



Improve local livelihood



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