What does No Net Loss mean?



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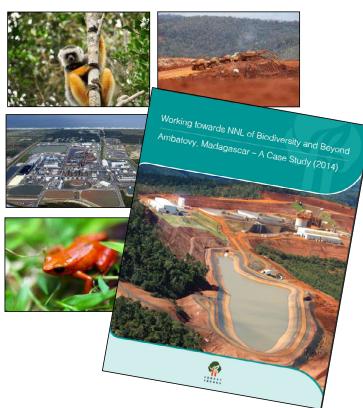
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The case of Ambatovy (Madagascar)







In short:

- Loss of 2000 ha of forest, including
 50% of which on metal-rich soils
- 300+ ha avoided (resource foregone)
- Post-mining rehabilitation / restoration not taken into account
- Offsetting through the conservation of 20 000 ha of existing forest

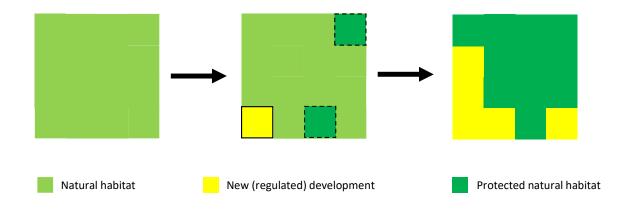
x 10

Does this result in 'no net loss' or a 'net gain'?

https://www.forest-trends.org/publications/working-towards-nnl-of-biodiversity-and-beyond-ambatovy-madagascar/



Averted loss offsetting (1)



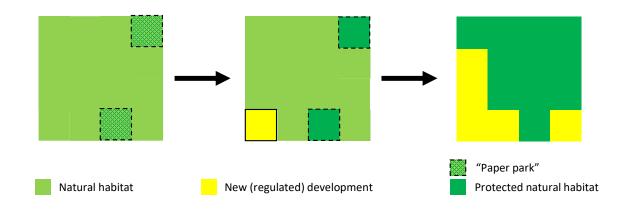
A 2-to-1 ratio means the loss of 1/3 of the existing habitat is acceptable

Simply protecting existing habitat leads to a 'net loss'

The area ratio used in sizing the area to protect determines the overall loss



Averted loss offsetting (2)



A 2-to-1 ratio means the loss of 1/3 of the existing habitat is acceptable

Simply protecting existing habitat leads to a 'net loss'

Funding existing but ineffective protected areas has the same outcome

The area ratio used in sizing the area to protect determines the overall loss



What about unregulated impacts from third parties?







Averted loss offsetting (3): adressing unregulated impacts

Unregulated impacts increase overall losses 'No Net Loss' relative to **#** what? Without offsetting With offsetting New (regulated) development Natural habitat Protected habitat Restored (and protected) habitat Degraded habitat Unregulated development / impact



Can biodiversity really be restored?



LNG terminal in Northern France

- Impacts on shorebird habitat
- Offset = conversion of farmland to shorebird habitat
- Management as a nature reserve by the local government







Can biodiversity really be restored?









Can biodiversity really be restored?

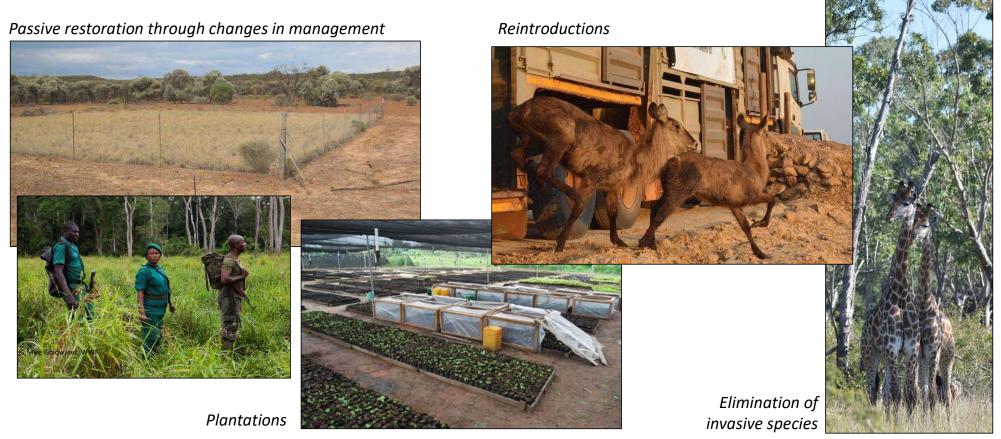






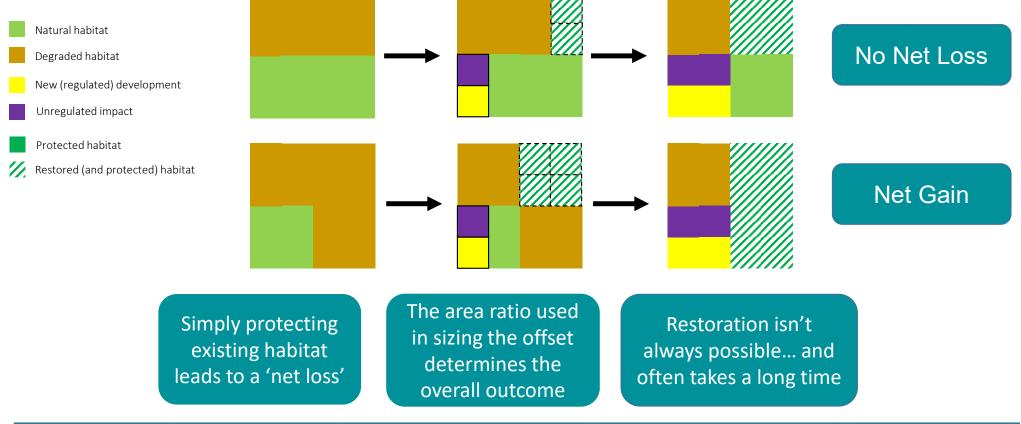


Options for restoration





The role of ecological restoration in offsetting





Does restoration make sense?



landscape in Western France

Habitat conversion

- Converting cropland into permanent grassland
- Converting tree plantations (e.g. poplars) into permanent grasslands or riparian woodland

Habitat restoration

- Clearing invasive species
- Adding missing 'ecological infrastructure' such as hedgerows, ponds, etc.
- Associated species translocations

Changes in management

- Changes in the timing of e.g. hay cutting, etc.
- Conversion to organic agriculture
- Letting forests grow old



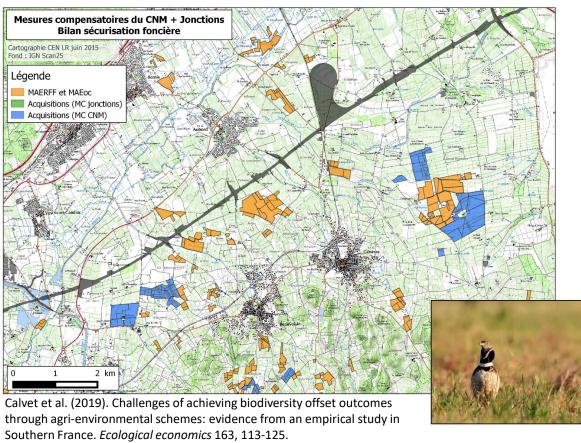
Offsetting habitat quality for the little bustard (*T. tetrax*)





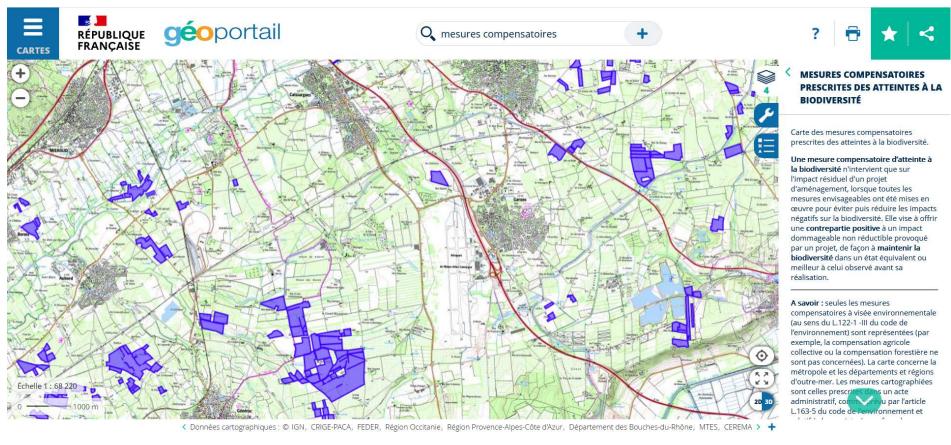
Offsetting habitat quality for the little bustard (*T. tetrax*)







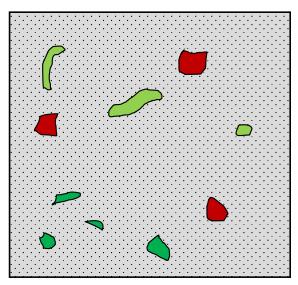
Where are the offsets?



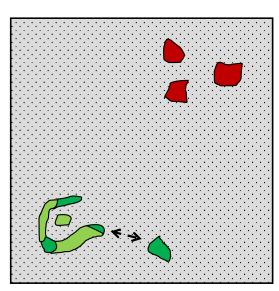
https://www.geoportail.gouv.fr/carte



Offsetting strategically



Reactive piecemeal offsetting



Proactive offsetting









Thank you!

