

Using innovation for accessing impact of GEF support to Land degradation projects

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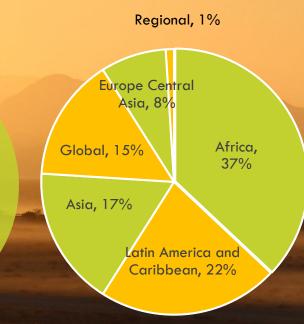
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Portfolio



Cofinancing 20.4 billion



Shift towards integrated landscapes

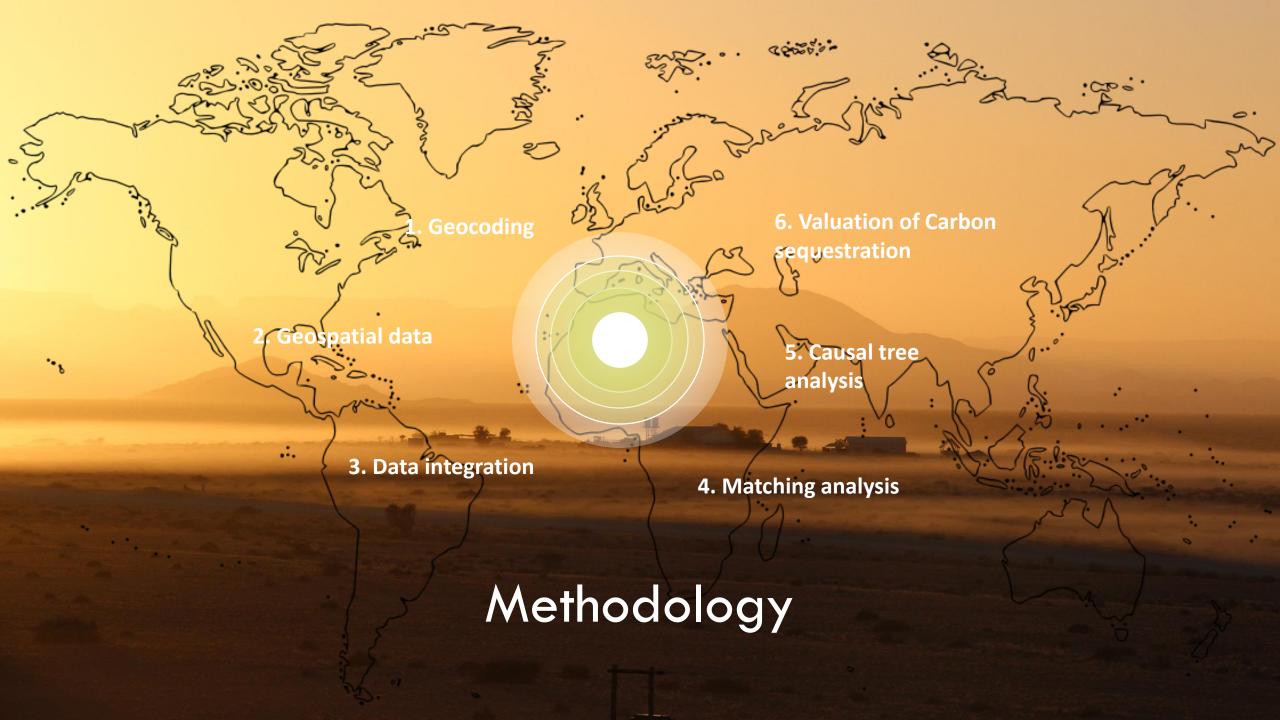


Value for money analysis: 3 main objectives

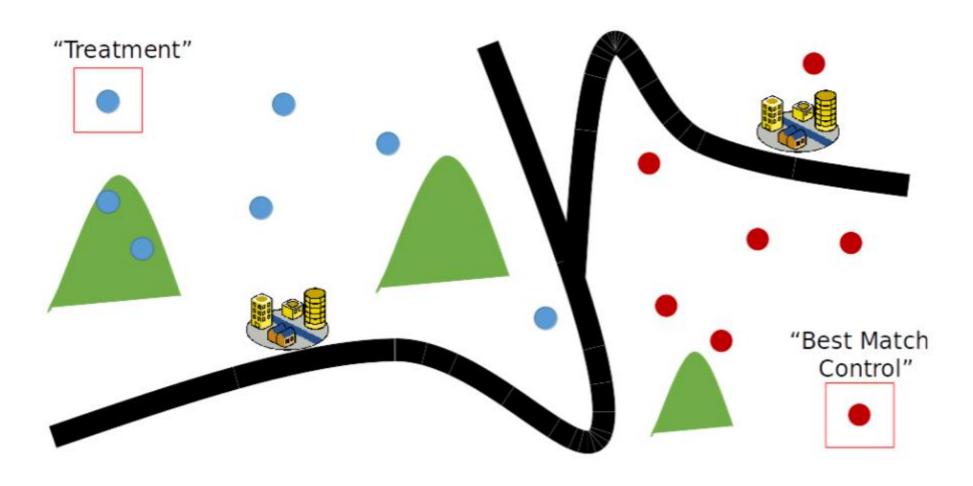
Impact of GEF land degradation interventions?

Factors associated with the environmental outcomes?

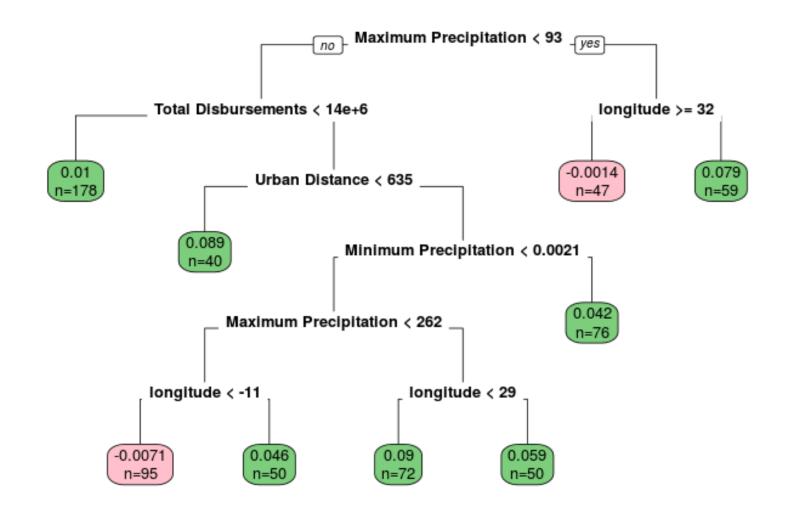
Value for money in terms of carbon sequestered?



Quasi-experimental method

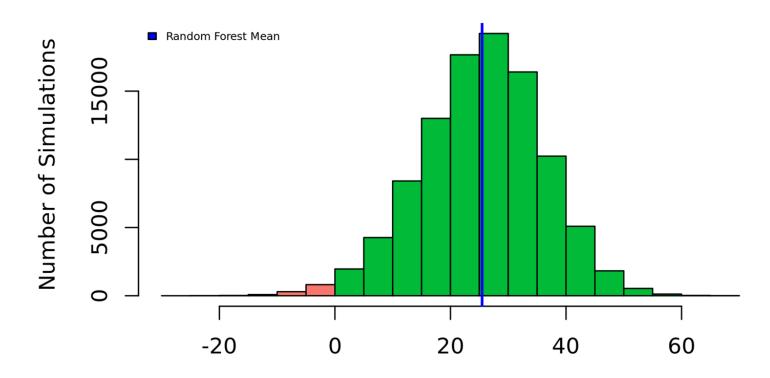


Machine learning and causal tree



Repeated model simulation

Model Uncertainty



Estimated Mean Impact NDVI Diff pre-post implementation

Finding: value for money



Vegetation productivity



forest loss and land fragmentation

Findings: value for money



Lag time of
4.5 to 5.5 years for impacts to be observed



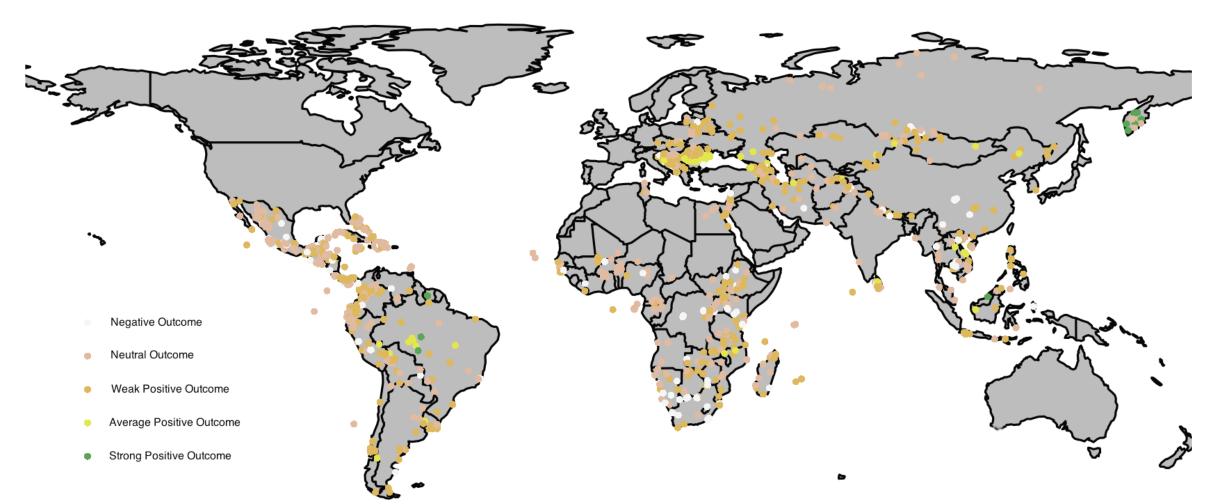
Access to electricity associated with higher impact



Higher impact observed in areas with poor initial conditions

Bang for the buck





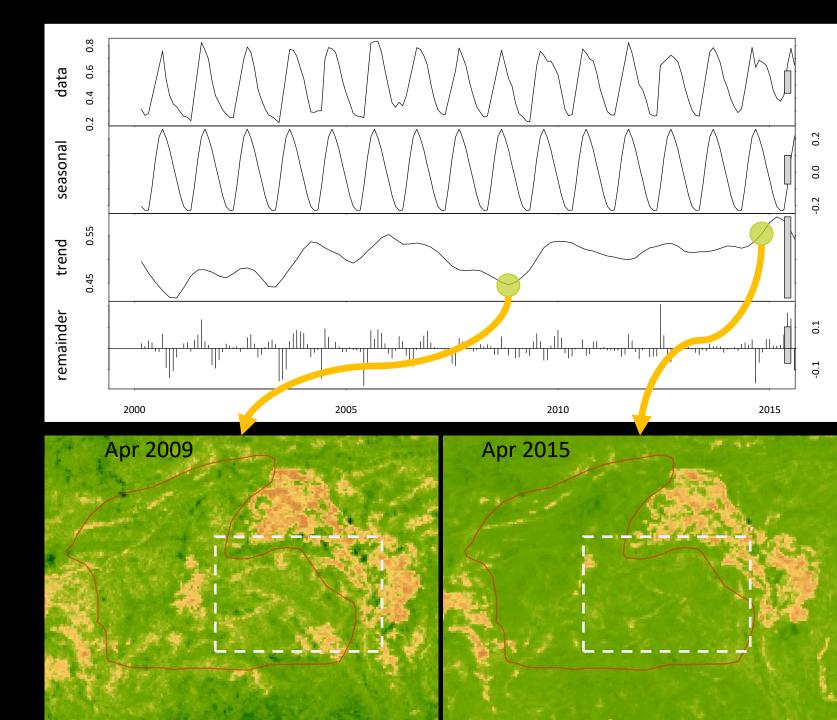
Impact assessment Mixed methods and triangulation of findings





Impact assessment

Mixed methods and triangulation of findings



Lessons for the future



Partner with global institutions

Use mixed approaches and methods



Continue exploring new technology

Approach evaluation as a dynamic learning process



