

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

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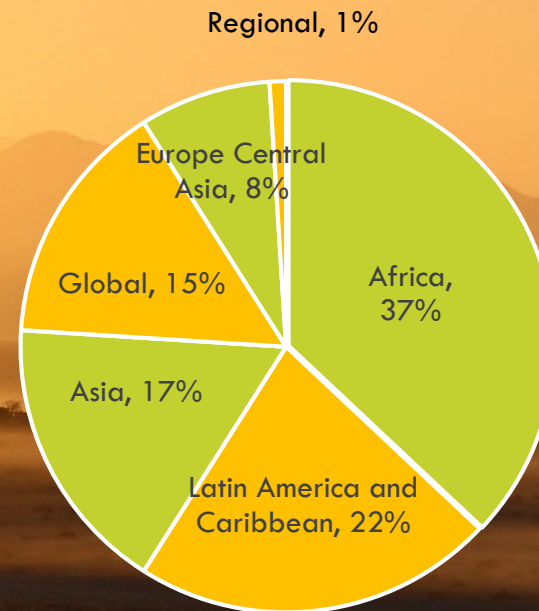
COP13 in Ordos, China – 6 -16 September 2017

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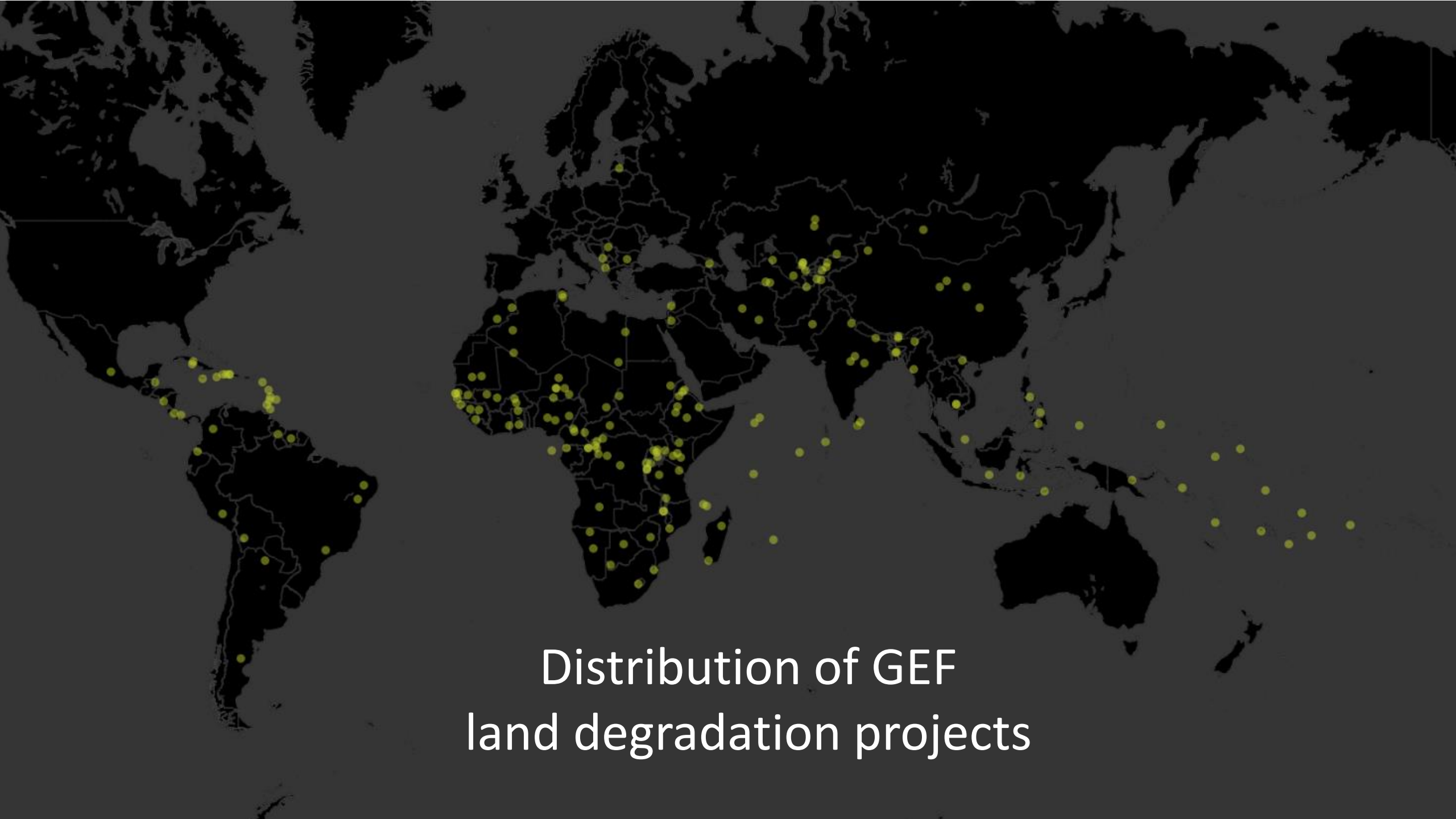
Portfolio

\$3.4 billion
618 projects
with an LD
component (58%
multifocal)

Cofinancing
20.4
billion



Shift towards
integrated
landscapes



Distribution of GEF
land degradation projects

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Value for money analysis: 3 main objectives

1

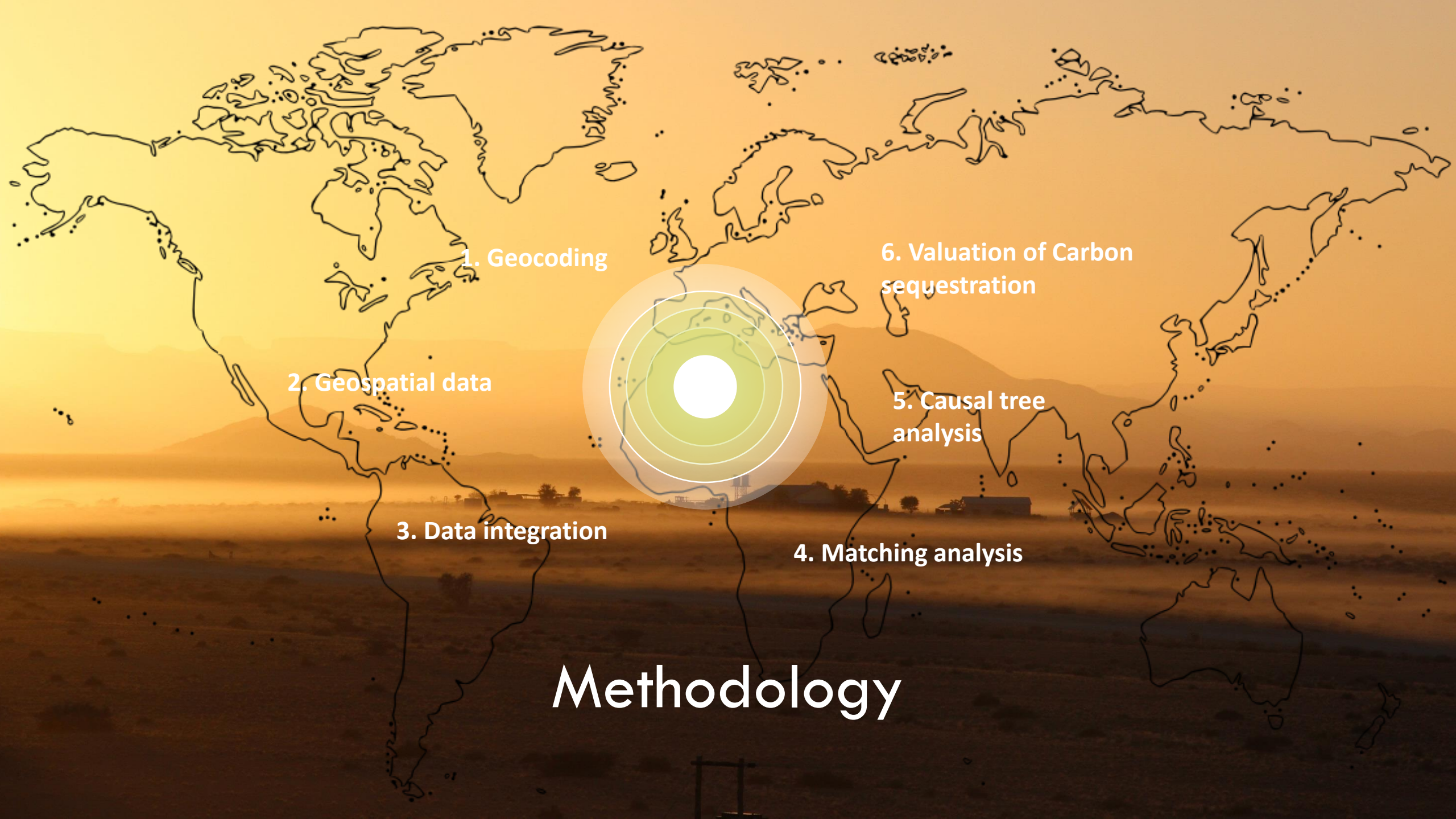
Impact of GEF land degradation interventions?

2

Factors associated with the environmental outcomes?

3

Value for money in terms of carbon sequestered?



1. Geocoding

2. Geospatial data

3. Data integration

4. Matching analysis

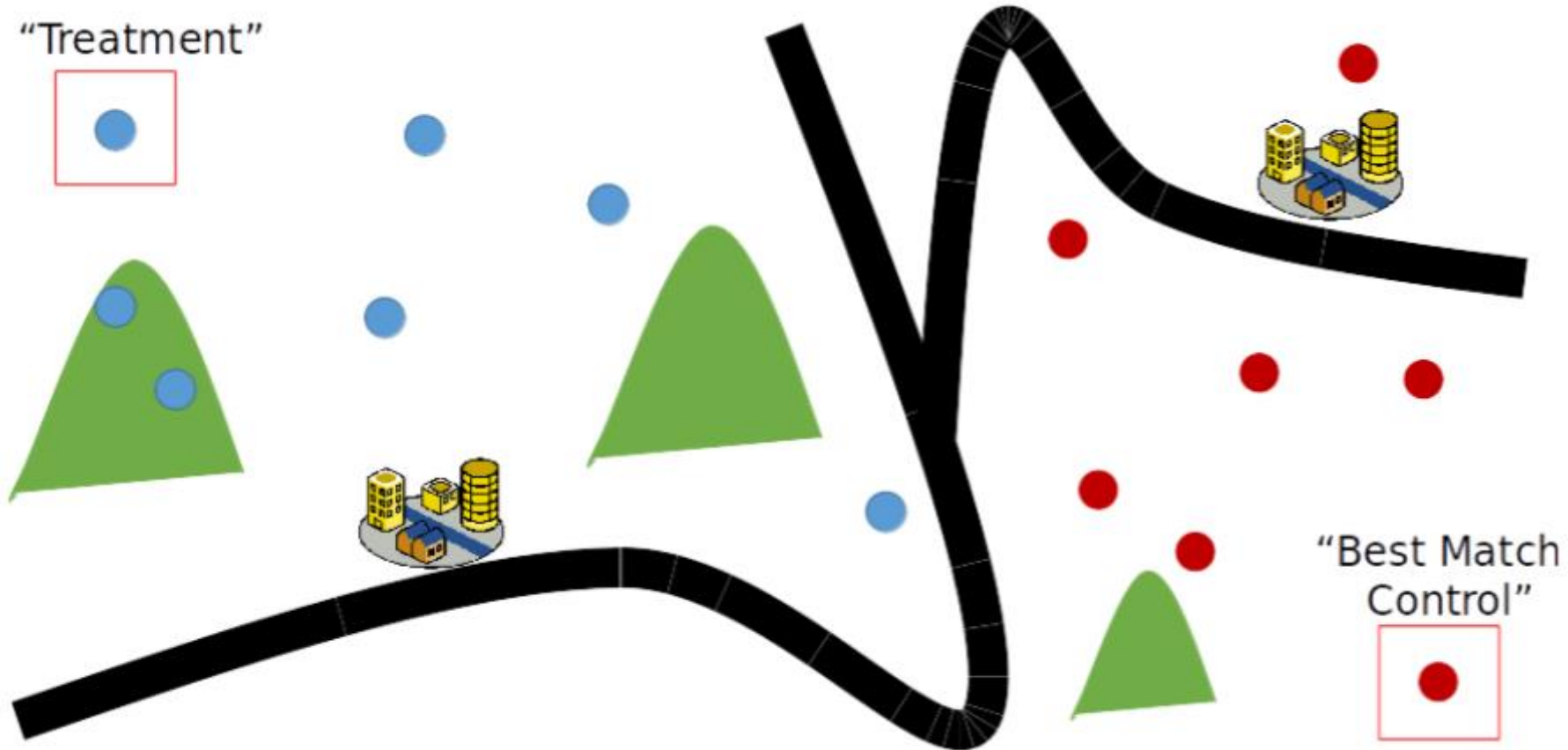
6. Valuation of Carbon
sequestration

5. Causal tree
analysis

Methodology

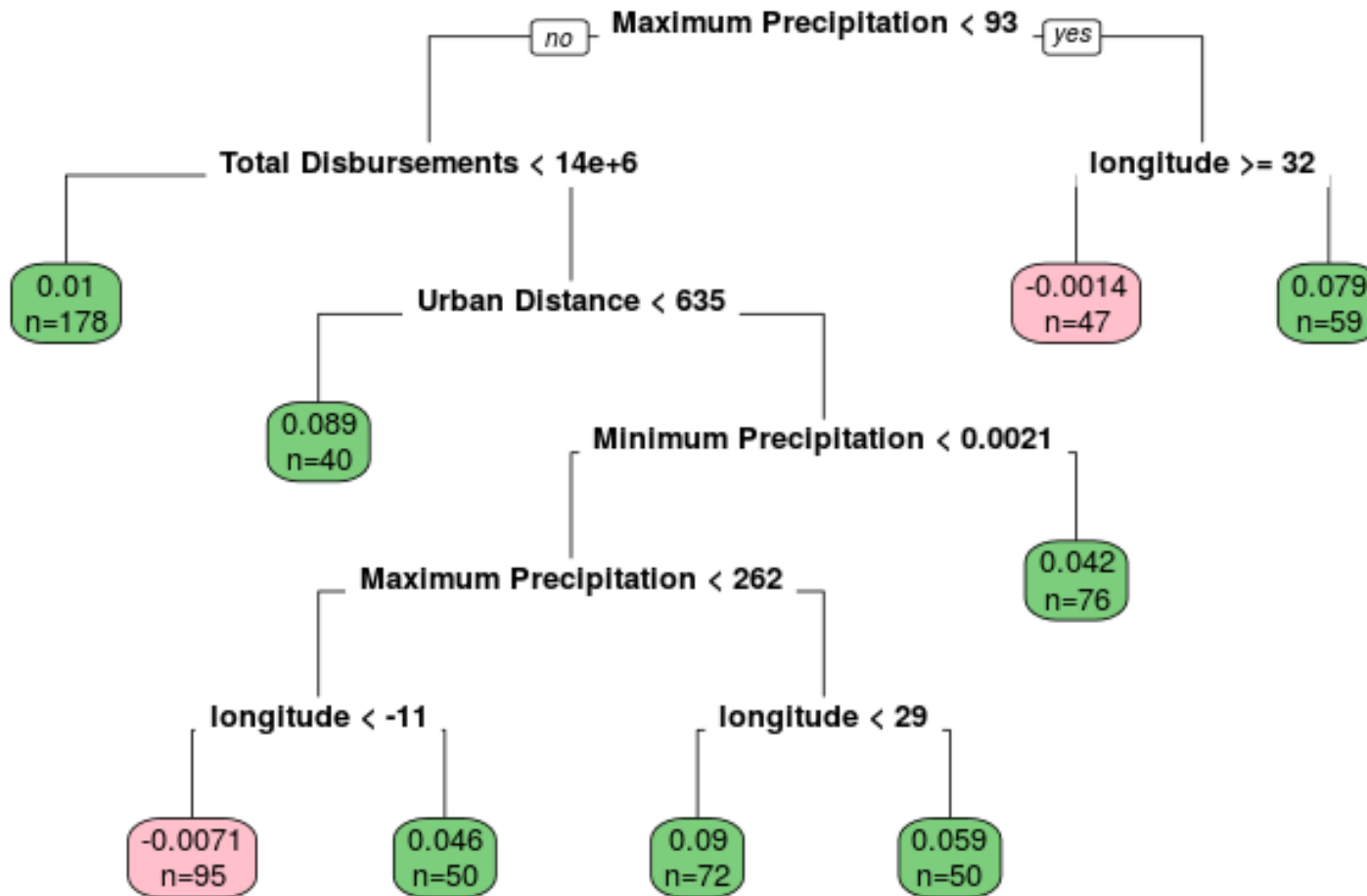
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Quasi-experimental method



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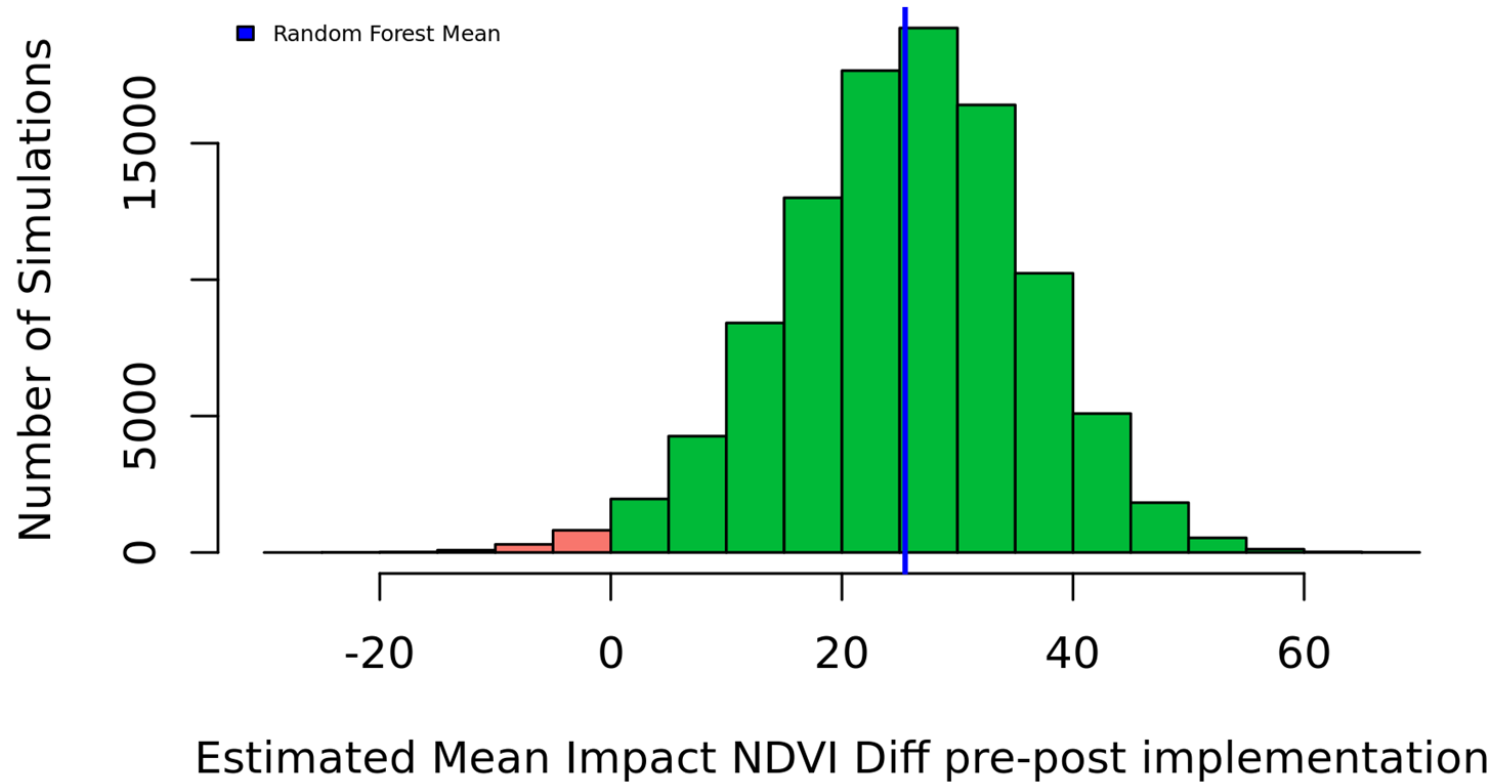
Machine learning and causal tree



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Repeated model simulation

Model Uncertainty



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Finding: value for money



**Vegetation
productivity**



**forest loss and
land fragmentation**

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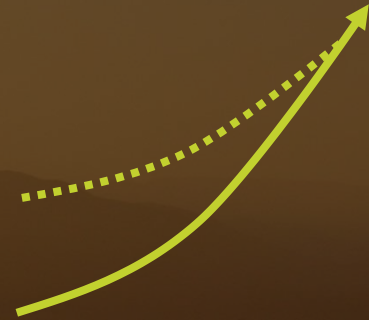
Findings: value for money



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



Access to electricity
associated with higher
impact

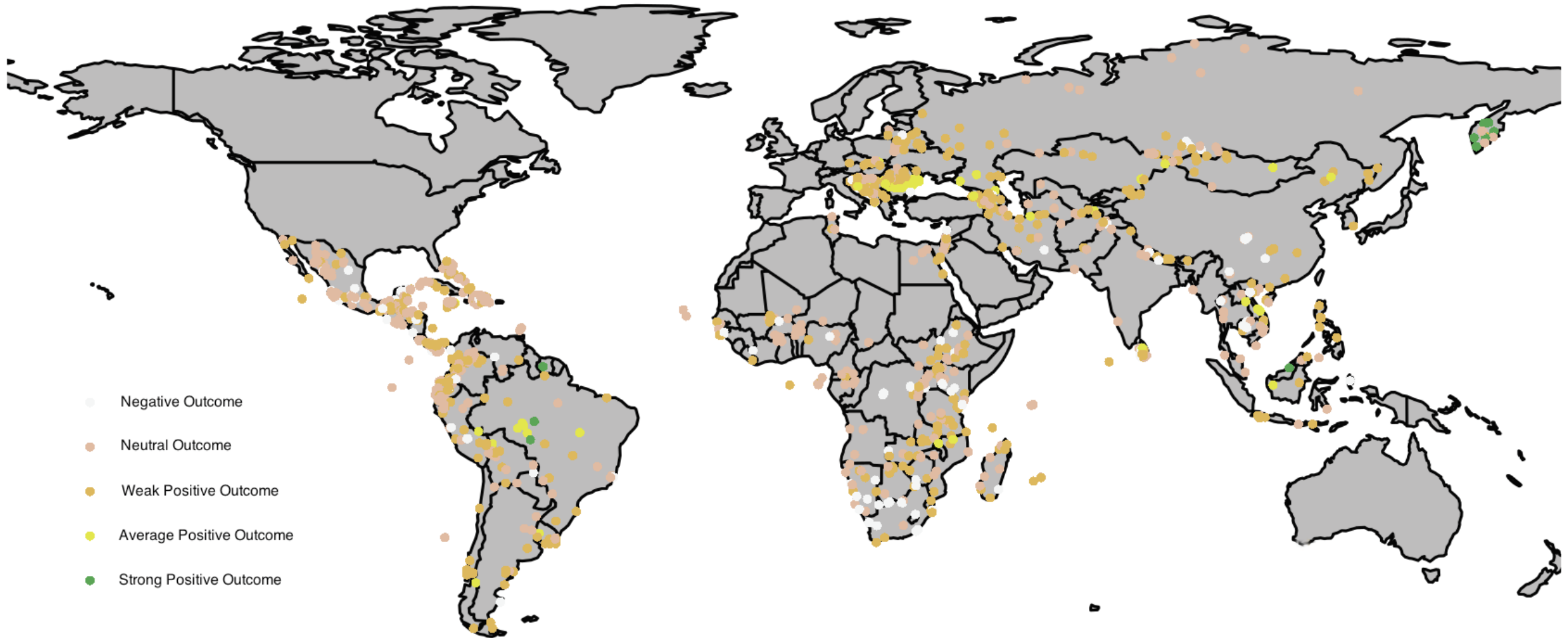


Higher impact observed
in areas with poor initial
conditions

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Bang for the buck

\$1:1.08



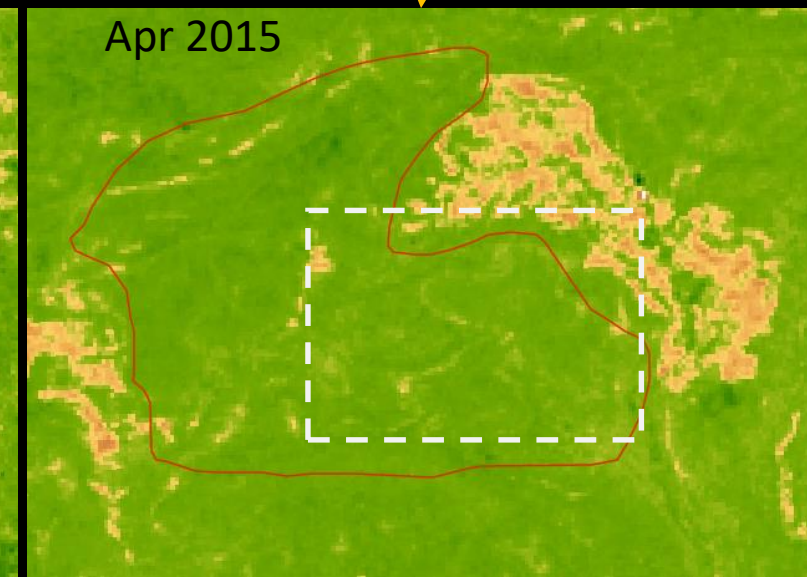
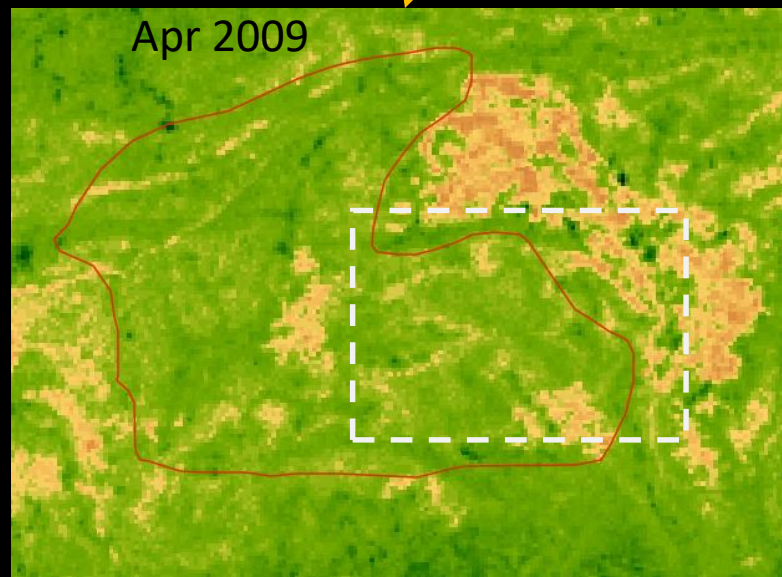
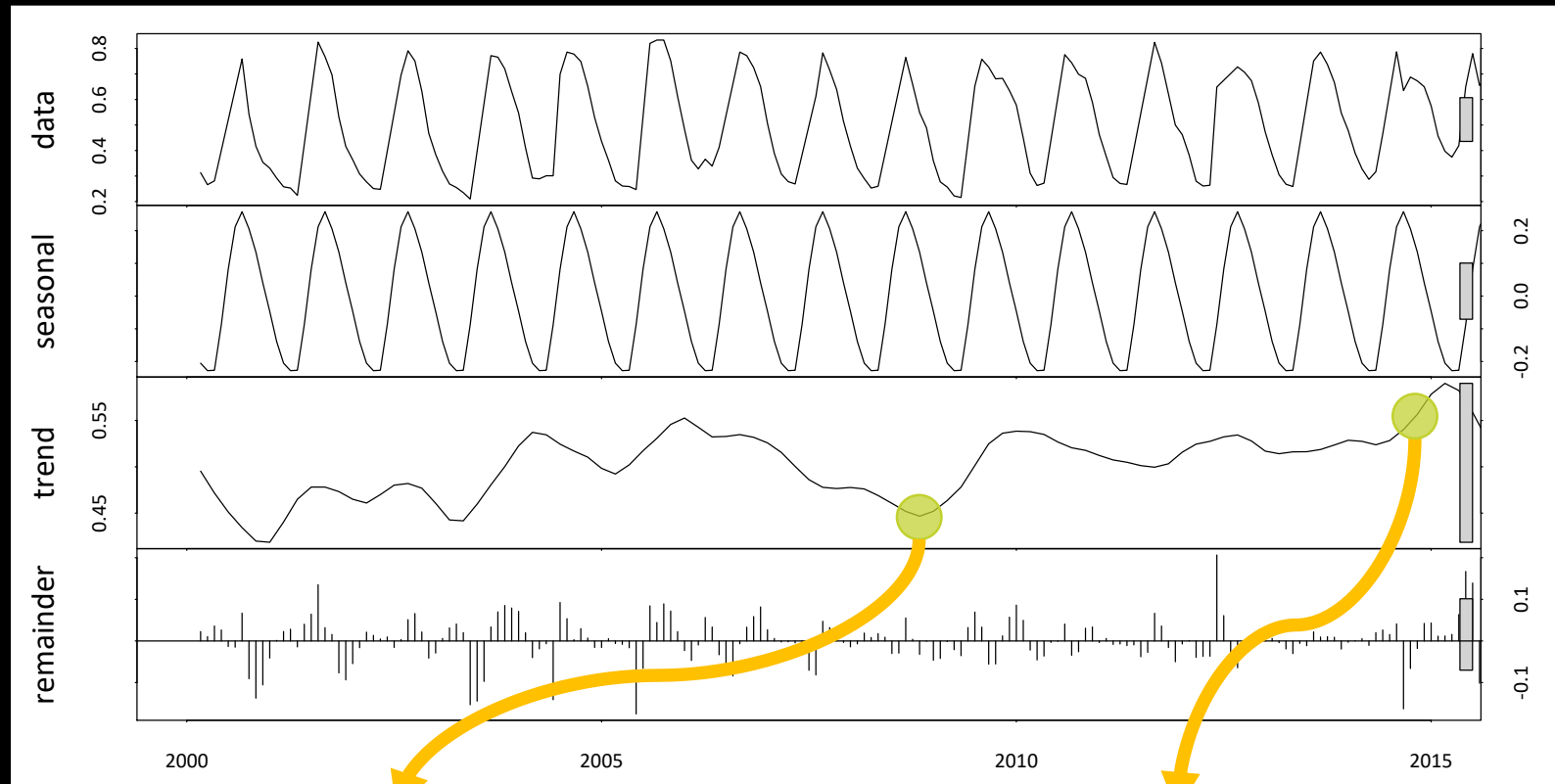
Impact assessment

Mixed methods and triangulation of findings



Impact assessment

Mixed methods and triangulation of findings



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Lessons for the future



**Partner with
global institutions**

**Use mixed
approaches and
methods**



**Continue exploring
new technology**

**Approach evaluation as
a dynamic learning
process**





Thank you

<http://www.gefieo.org/>

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