



2018 Asian Evaluation Week

Making Evaluation Work at the Country Level

10–14 September 2018 | Chengdu, People's Republic of China

Integrating Big Data in Evaluation

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Global Environment Facility (GEF)

Takeaway

Participants will learn the potential applications of big data and geospatial analysis in evaluating environmental and socio-economic impacts of development interventions



What is Big Data?



Volume



Velocity



Variety



Value

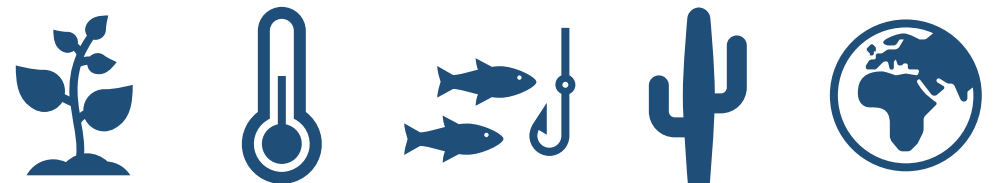


Why use Big Data in evaluation?

Scarcer financial resources



Global environmental issues



Sustainable Development Goals and Geospatial Data



TOOLS for evaluators to operationalize large quantities of data

The logo for Flowminder.org is a dark blue square with the text "FLOWMINDER.ORG" in white, uppercase, sans-serif font centered within it.

FLOWMINDER.ORG

Flowminder
Foundation



United Nations Global Pulse
unglobalpulse.org



UN FAO Collect Earth
openforis.org





18 AGENCIES



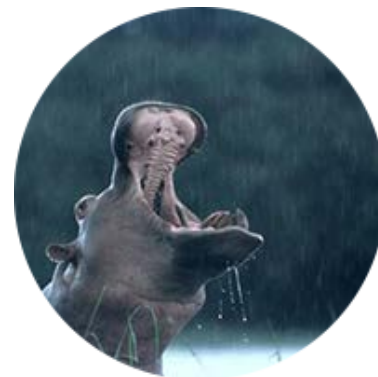
**Climate
change**



**International
waters**



**Chemicals
and waste**



Biodiversity

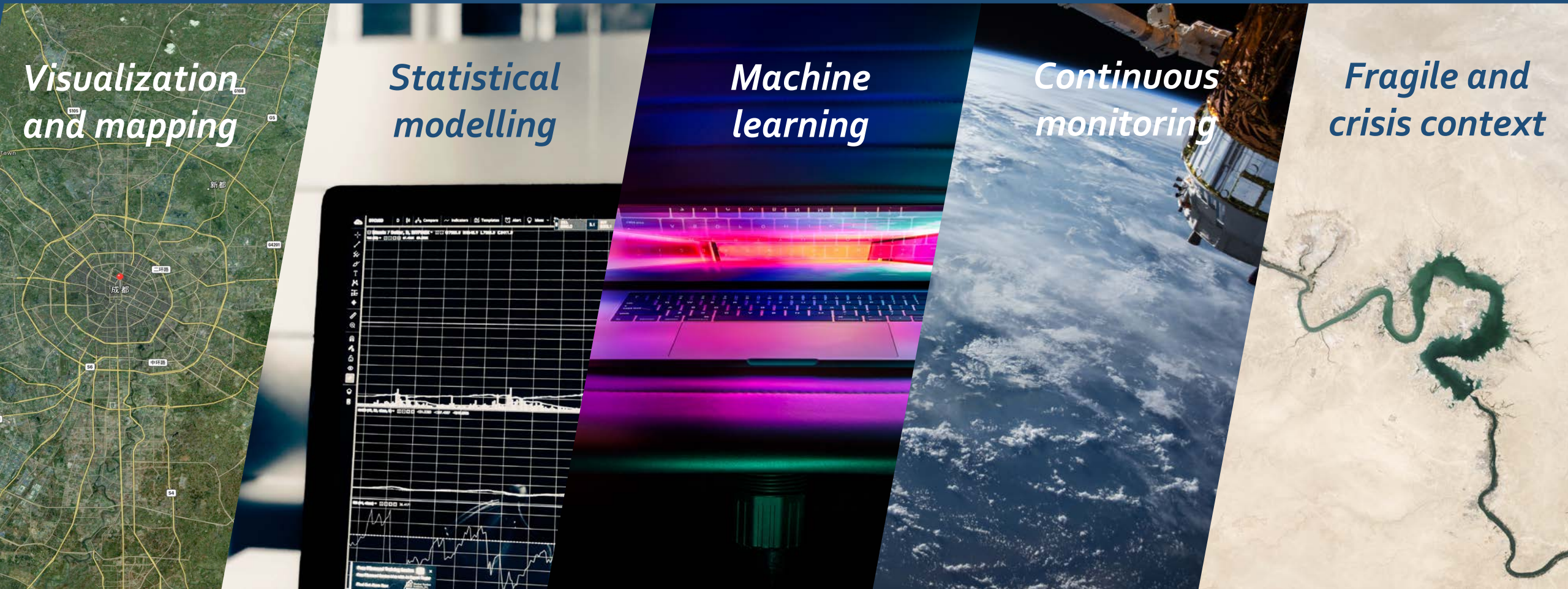


Forests



**Land
degradation**

Uses of geospatial data





Practical examples from GEF evaluations



Impact evaluation of GEF support to protected areas and protected area systems

▲ GEF Supported PAs
Count: 1292
Area: 2785350 Sq KM

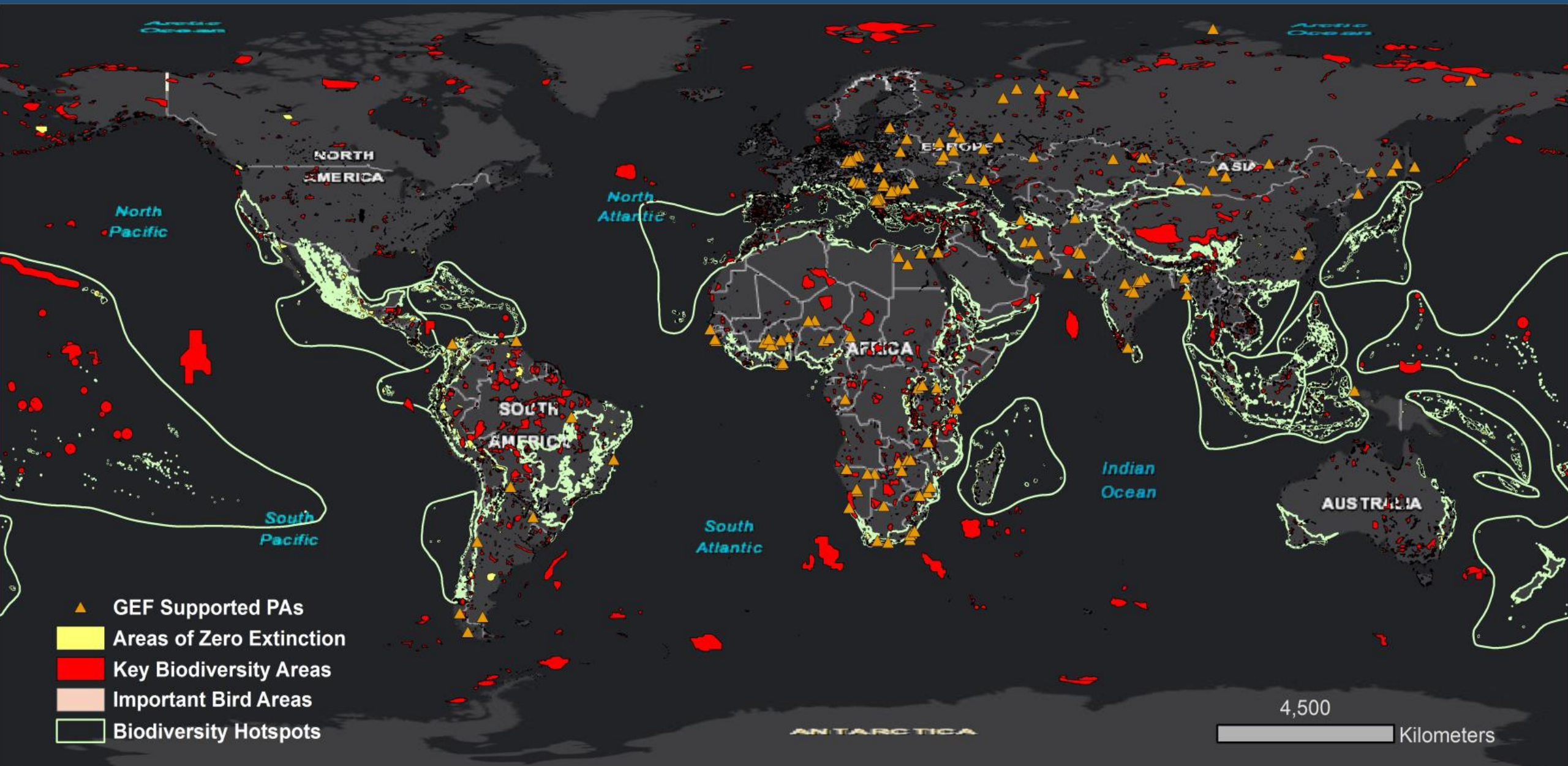


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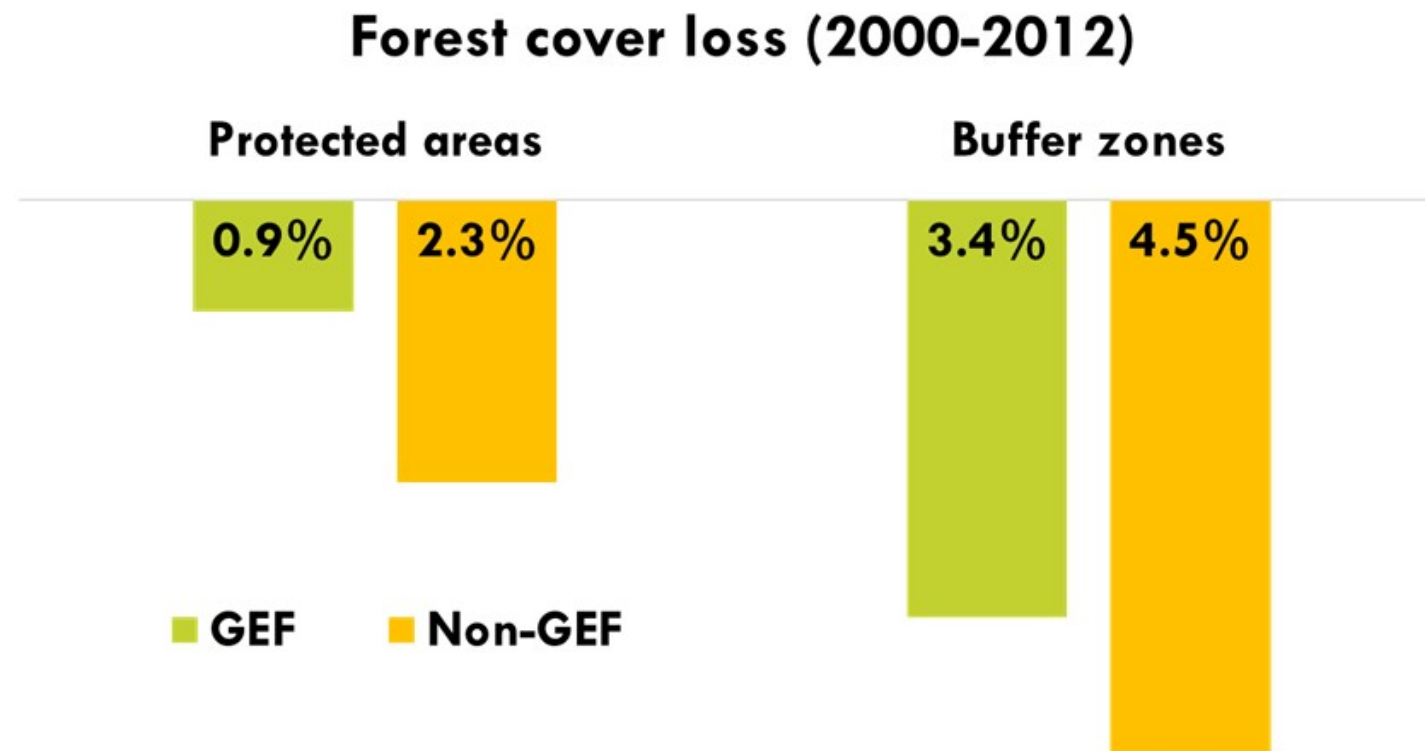
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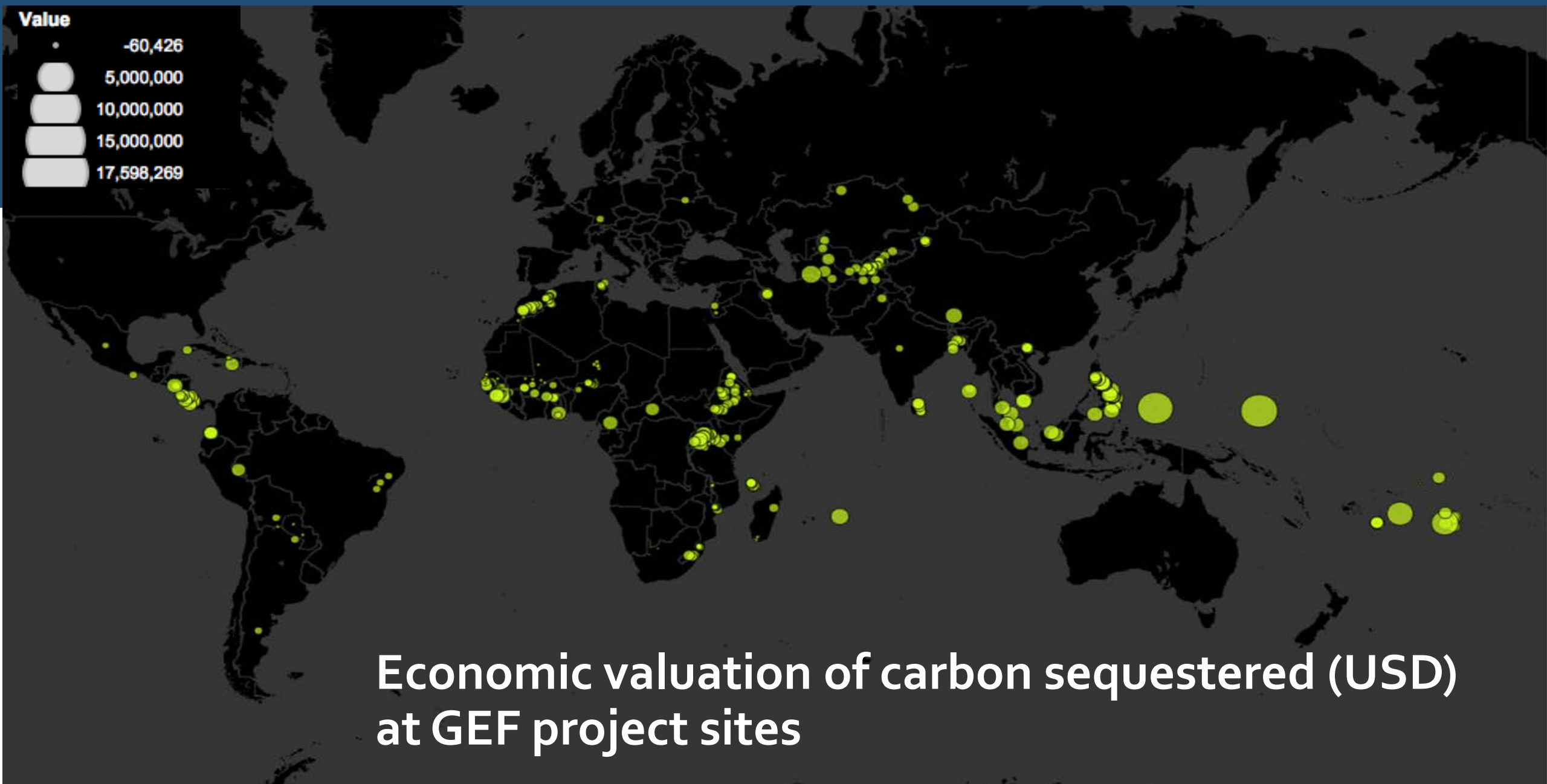
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Forest change analysis using satellite data

GEF protected areas compared with non-GEF and adjoining buffer zone





Value for money analysis in land degradation projects in the GEF

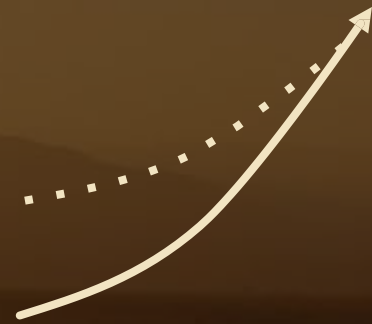
Factors driving positive impacts



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



Beneficiary survey

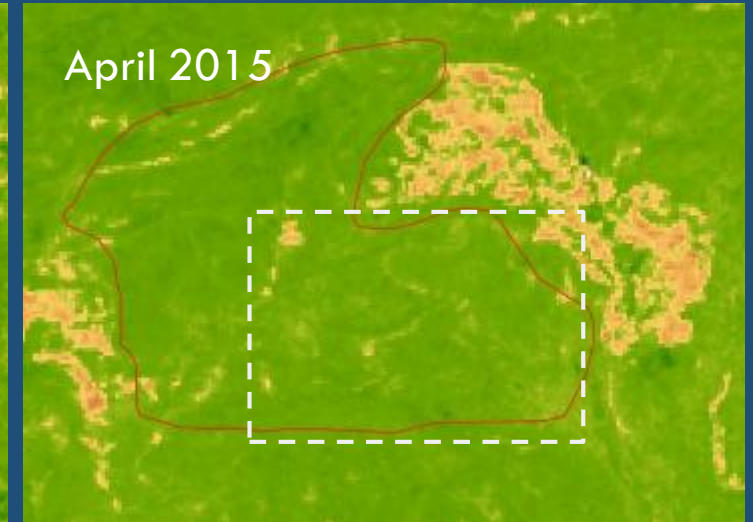
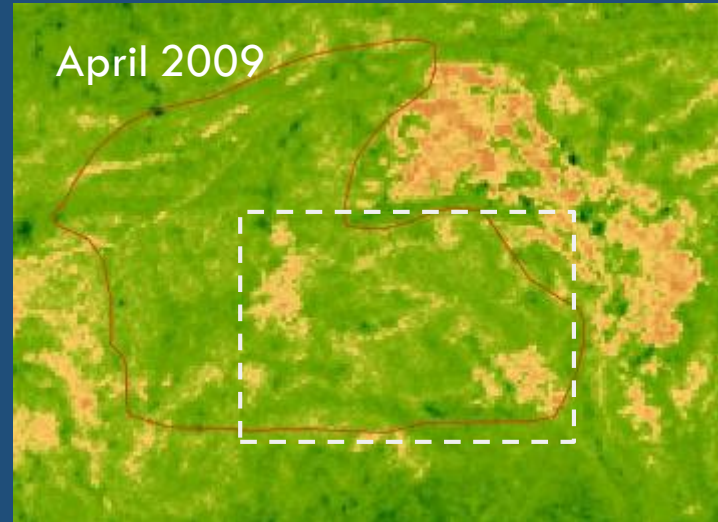


Question	Response
What's the current date and time	2016-05-18T13:27:00+05:30
Where is this interview taking place?	21.767241625097 78.66115602390134 486.389993433955 24.0
Can I take a picture?	
Name of Interviewee(s)	Primala aike
What is your role in the project?	beneficiary
Name of Organisation	Gurani
Is the project creating any positive impact in the area/region/site?	yes
Did this project contribute to better land management?	to_a_moderate_
Has the project increased productivity in temperlands? (Y/N)	yes
Has the project allowed for creating of new jobs and livelihood?	yes
Do you believe project technicians listened to you and took your voice into account when planning or implementing the project?	to_a_moderate_
Did the project involve men and women equally?	yes
To what extent is the local community involved in the project?	to_a_moderate_

Bamboo Forest



Time series analysis using satellite data



TRIANGULATION ACROSS METHODS

Qualitative methods

- Case study
- Field visits
- Focused group interview
- Stakeholders interview



LESSONS from the use of geospatial data in evaluations



Partner with
global institutions



Use mixed
approaches and
methods



Continue exploring
new
methodologies
and data sources



Approach
evaluation as a
dynamic learning
process





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Geospatial data can

Answer new and complex evaluation questions

Help overcome traditional data-related constraints