

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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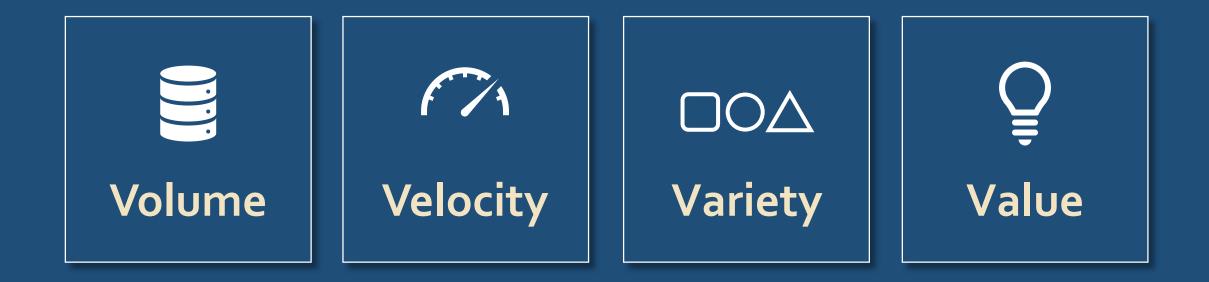
Global Environment Facility (GEF)

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?





Why use Big Data in evaluation?

Scarcer financial resources

Global environmental issues







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Sustainable Development Goals and Geospatial Data





TOOLS for evaluators to operationalize large quantities of data



Flowminder Foundation

United Nations Global Pulse unglobalpulse.org UN FAO Collect Earth openforis.org





Climate change



International waters





Chemicals and waste



Biodiversity

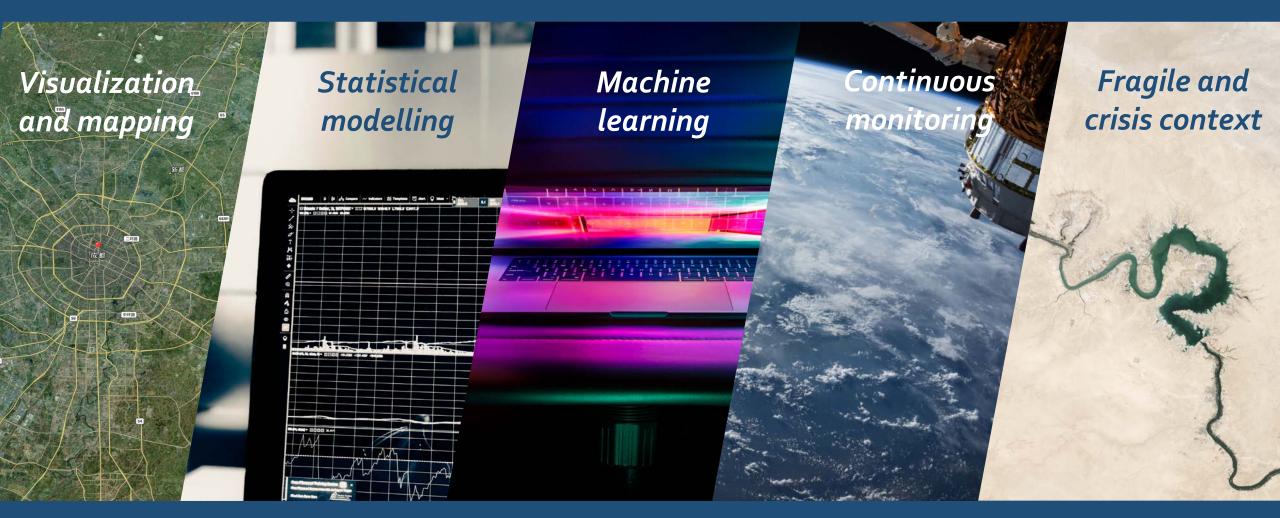
Forests



Land degradation

18 AGENCIES

Uses of geospatial data







Practical examples from GEF evaluations





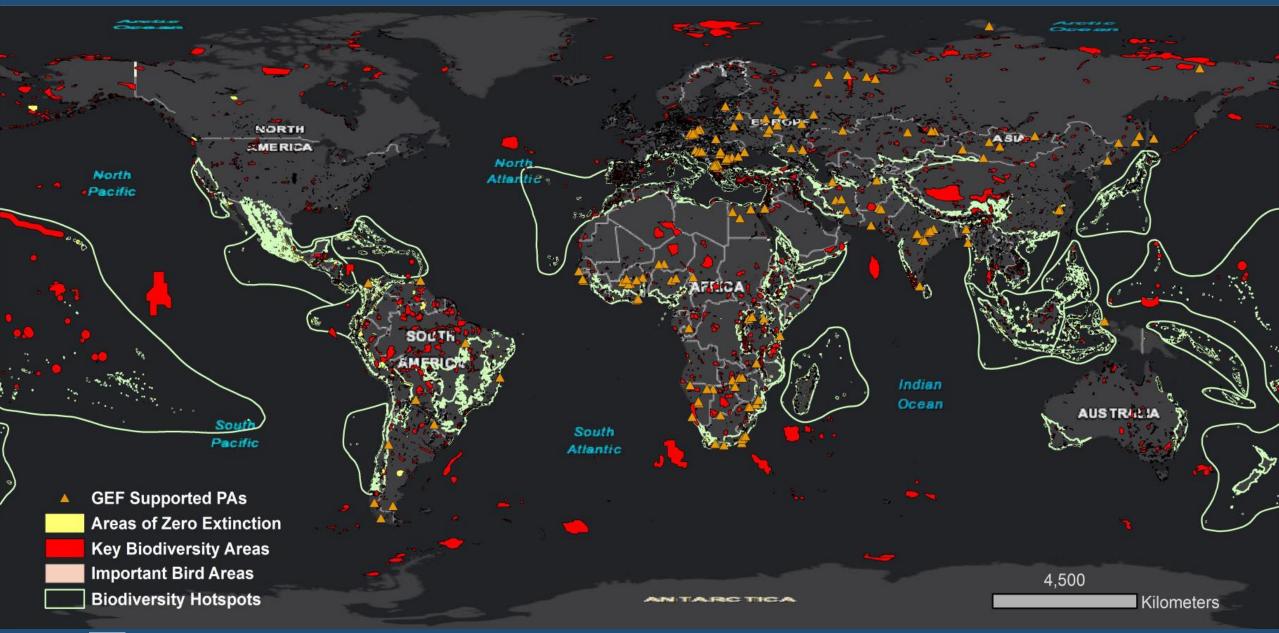
GEF Supported PAs Count: 1292 Area: 2785350 Sq KM



9,000

Kilometers

4,500

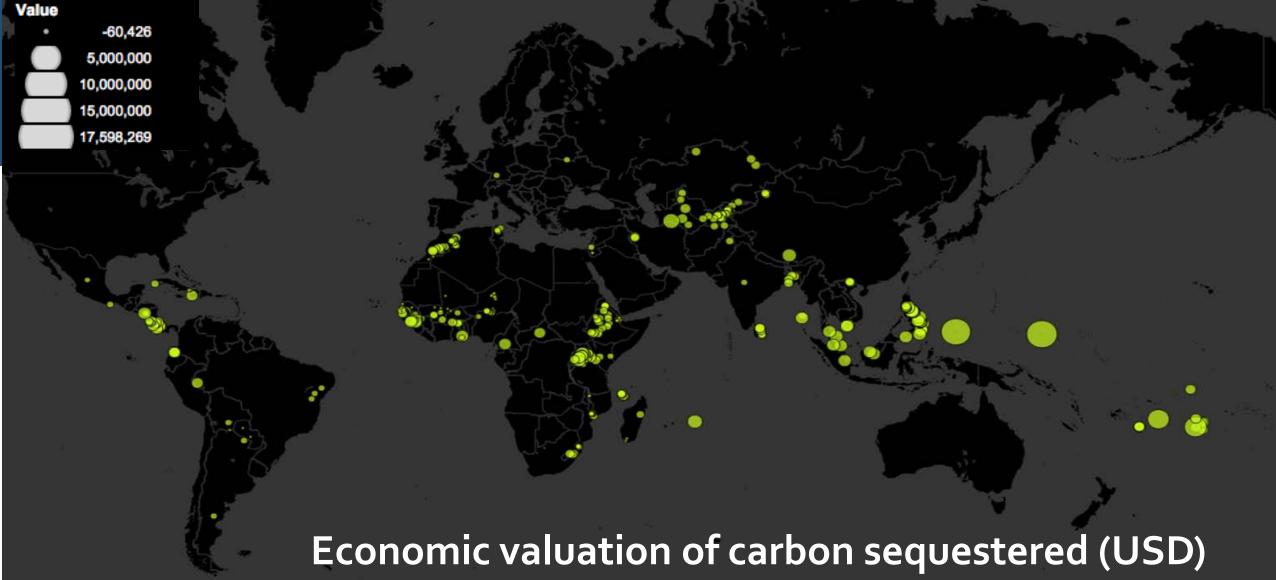




Forest change analysis using satellite data GEF protected areas compared with non-GEF and adjoining buffer zone

Forest cover loss (2000-2012) Protected areas Buffer zones 0.9% 2.3% 3.4% 4.5% GEF Non-GEF Von-GEF Von-GEF





at GEF project sites



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

Bamboo Forest



Time series analysis using satellite data



TRIANGULATION ACROSS METHODS **Qualitative methods**

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



Vaplay options with

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