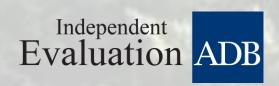
# Asian Development Bank's Experience and Approaches in Assessing Environment

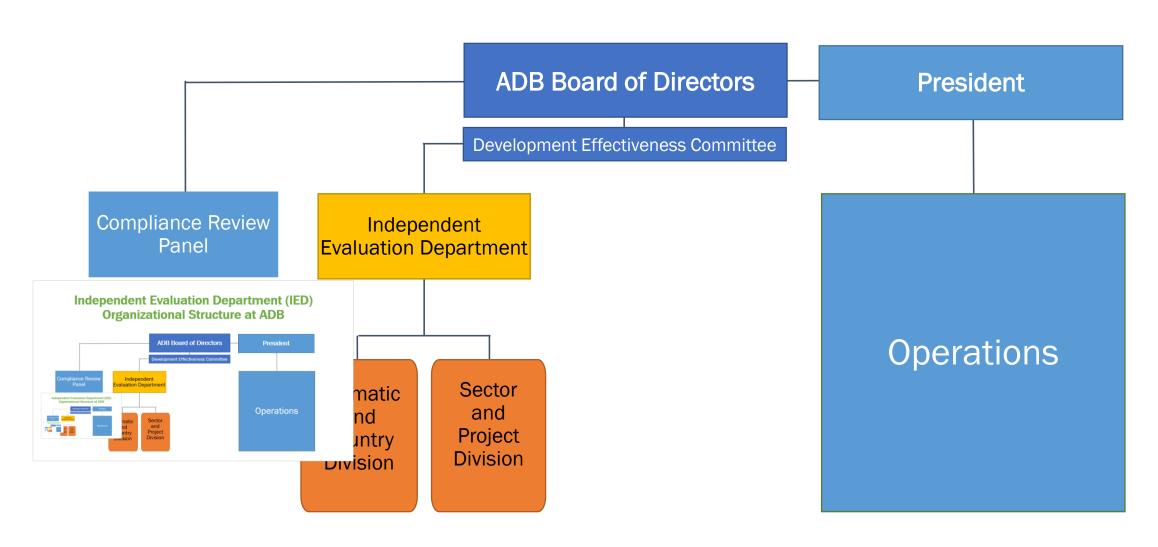
#### **Andrew Brubaker and Garrett Kilroy**

Independent Evaluation Department, Asian Development Bank

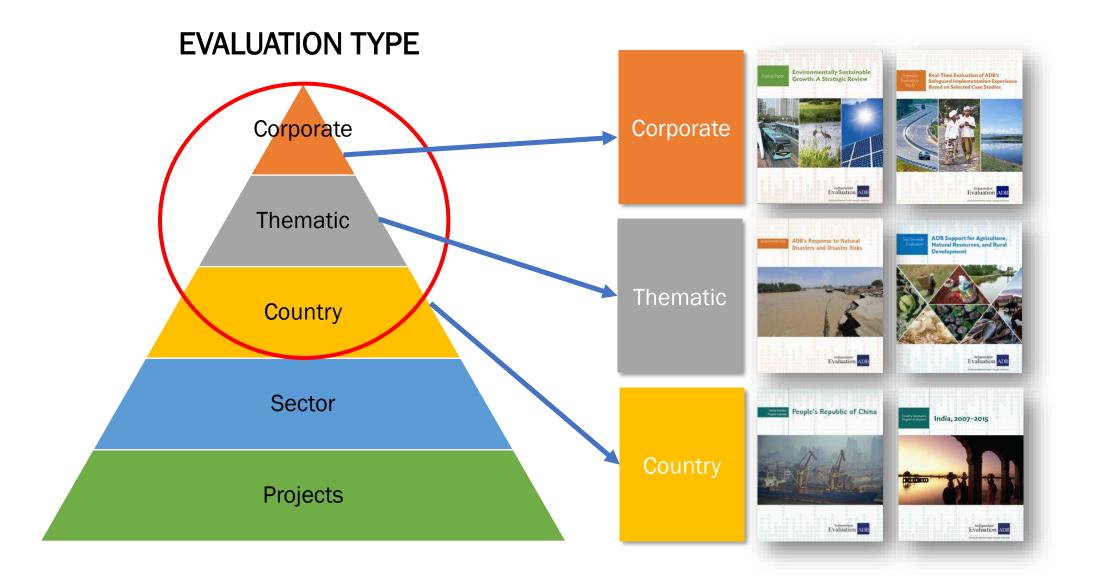
Third International Conference on Evaluating Environment and Development Prague, Czech Republic | October 2019



## Independent Evaluation Department (IED) Organizational Structure at ADB



### **Higher-Level Evaluations Related to Environment**



### Challenges for Assessing the Environment in Higher Level Evaluations

- Lower level evaluations do not systematically address environment
- Portfolio data and results frameworks don't capture Env well
- Inconsistent and limited data
- Poor or absent baselines
- Limited time and resources

## Approaches for Assessing the Environment in Higher Level Evaluations



Secondary data



Portfolio review



Statistical analysis



Cost benefit analysis

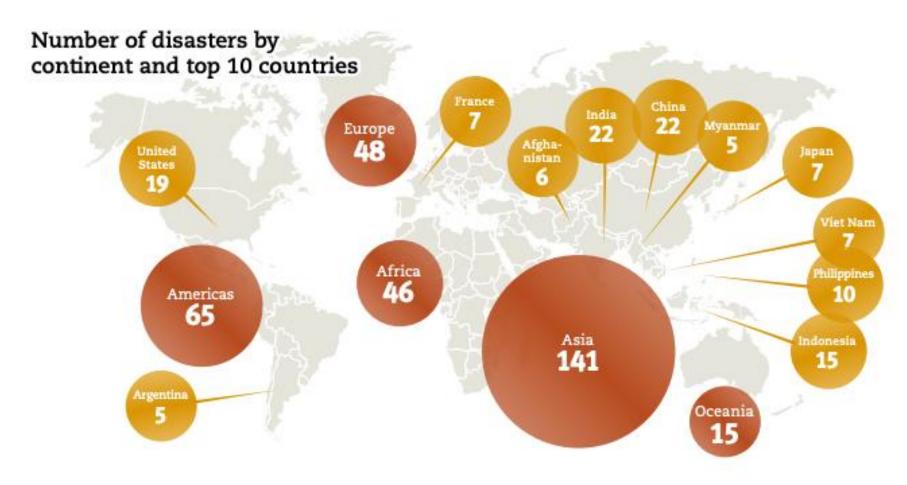


Remote sensing



### **Secondary Data: Natural Disasters**



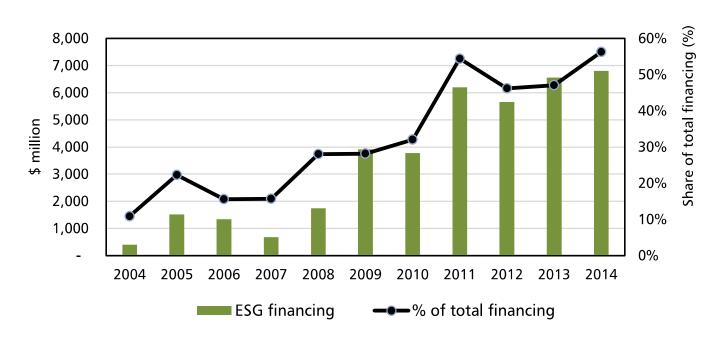


Source: https://www.emdat.be/publications

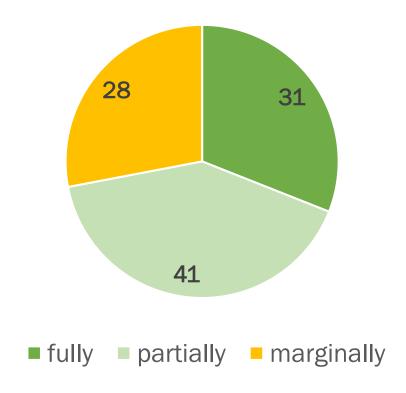




ESG Financing in ADB Sovereign Operations, 2004-2014



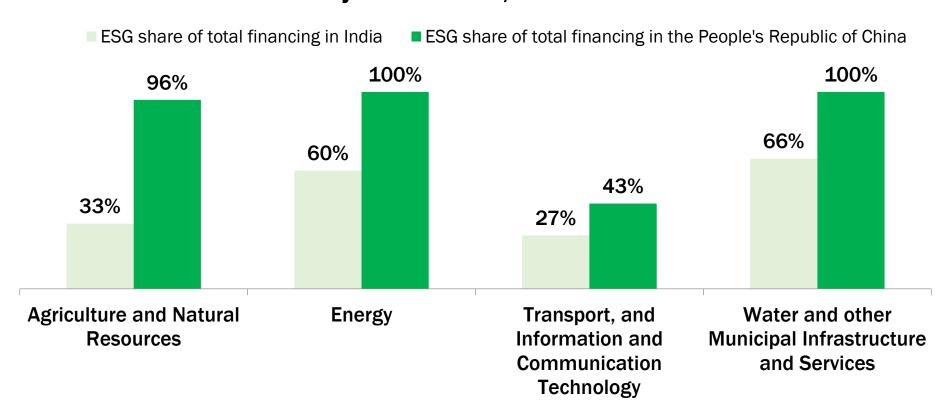
Results: Extent ESG by percent







### ESG Approvals for India and the People's Republic of China, by Four Sectors, 2004–2014



### **Country Evaluation: PRC**

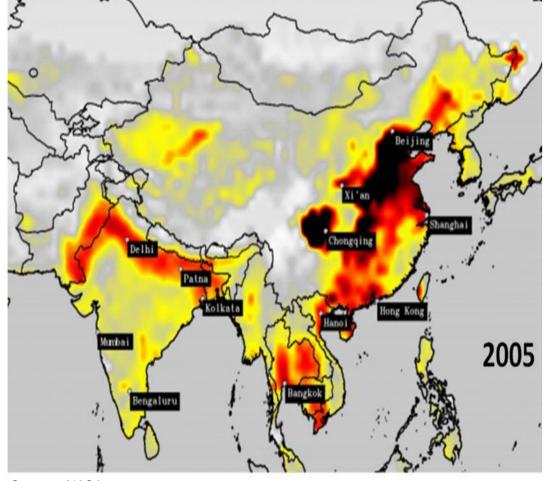




Period	Share of energy, transport, urban	Success rate (%)	Share of projects with environment
1998-2005	93%	97%	< 50%
2006-2013	81%	100%	> 90%

Clean coal and Energy Coal solar power Sustainable Roads and Transport mass transport, highways rail, BRT Wastewater Water supply Urban

access



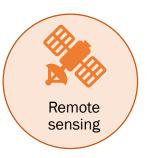
Source: IED

Source: NASA

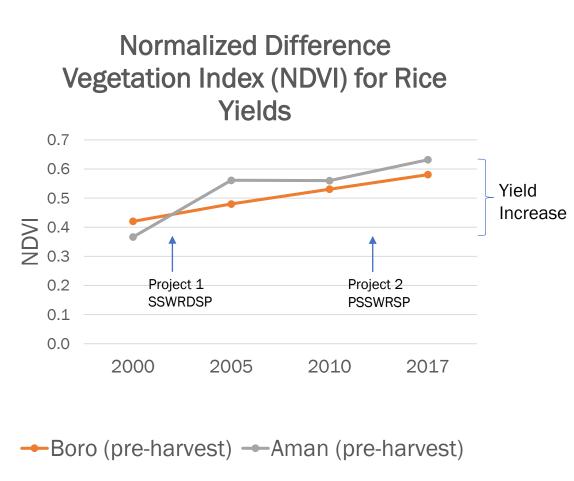
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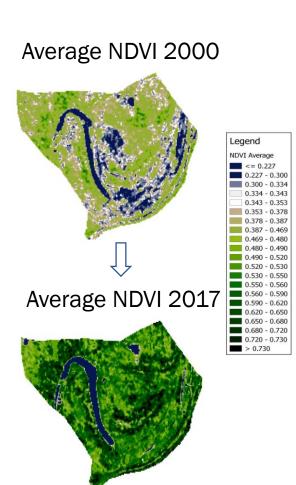
reuse

### Strategic Application of Remote Sensing

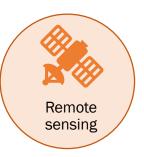




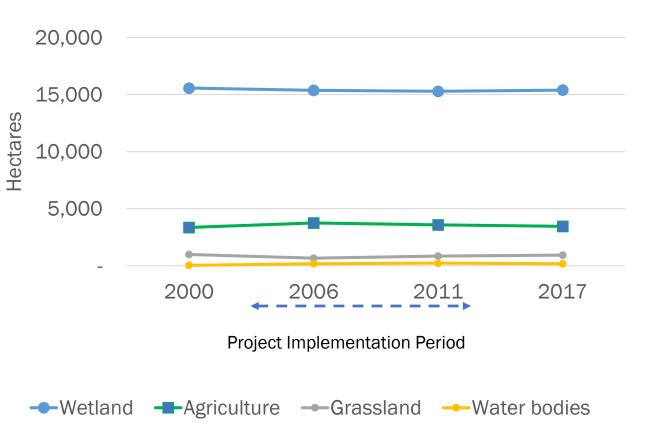


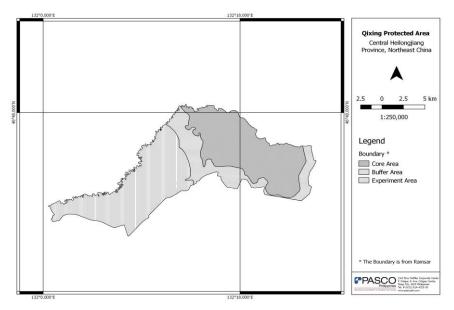






#### **Qixinghe Nature Reserve Land Cover**



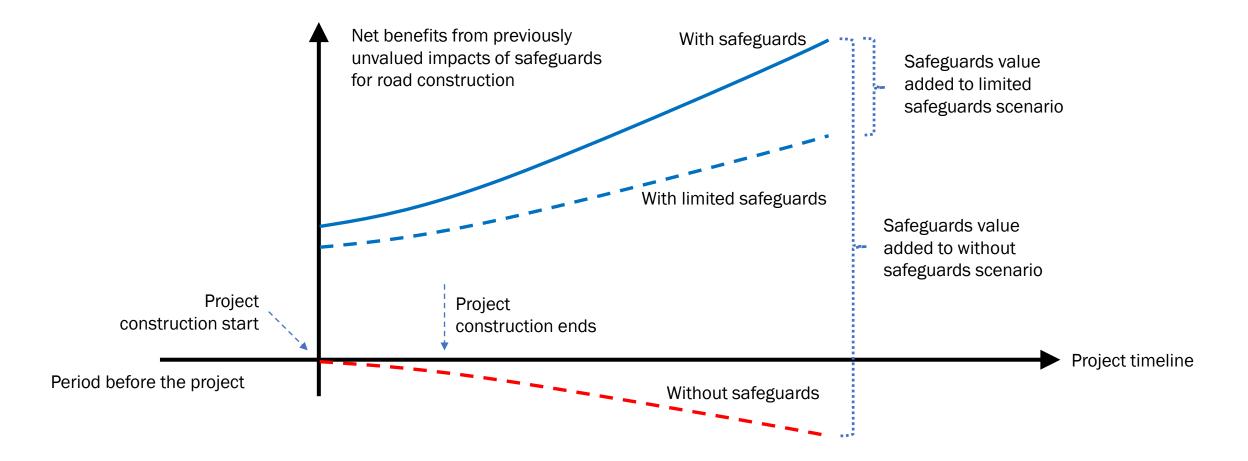






### Cost Benefit Analysis: Safeguards Evaluation

#### Benefits and Costs of the With and Without Safeguards Scenarios



#### **Key Messages**

- Robust standard methodologies and triangulation remain the cornerstone of thematic and corporate evaluations and can be applied to the environment
- Spaced-based technologies and other forms of data analysis, used appropriately and cost-effectively, can add value to standard approaches, increase efficiency of evaluations and improve the weight of evidence
- Shifting baselines due to land-use and climate influences will drive greater use of these technologies in evaluation

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