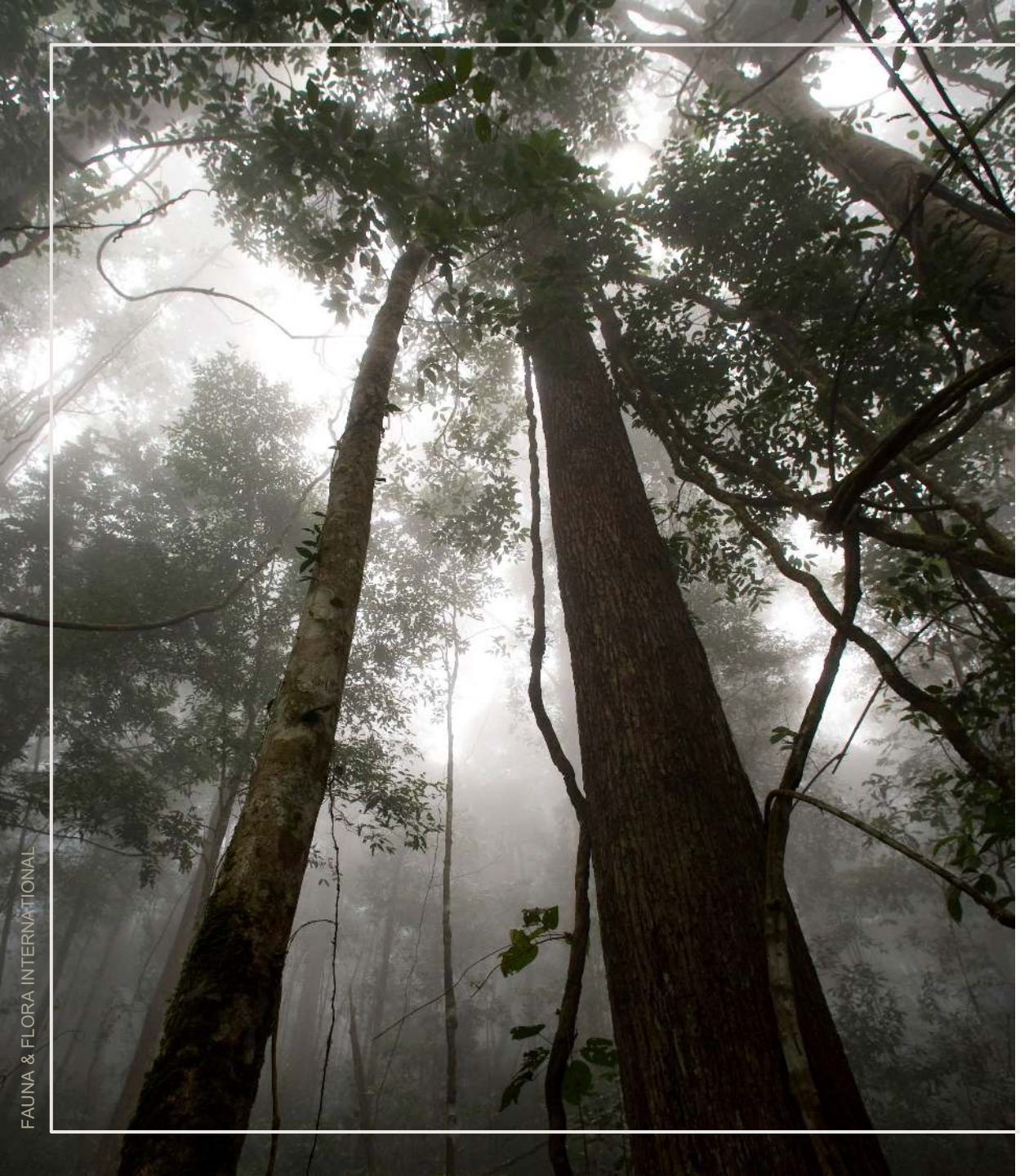

Forest-smart mining:

WHAT IS IT AND HOW TO ACHIEVE IT?

Pippa Howard

WORLD BANK GROUP

FAUNA & FLORA INTERNATIONAL

SWEDISH GEOLOGICAL AB
AN MS GROUP BUSINESS

PROFOR

LEVIN SOURCES

Large Scale Mining (LSM) in forests

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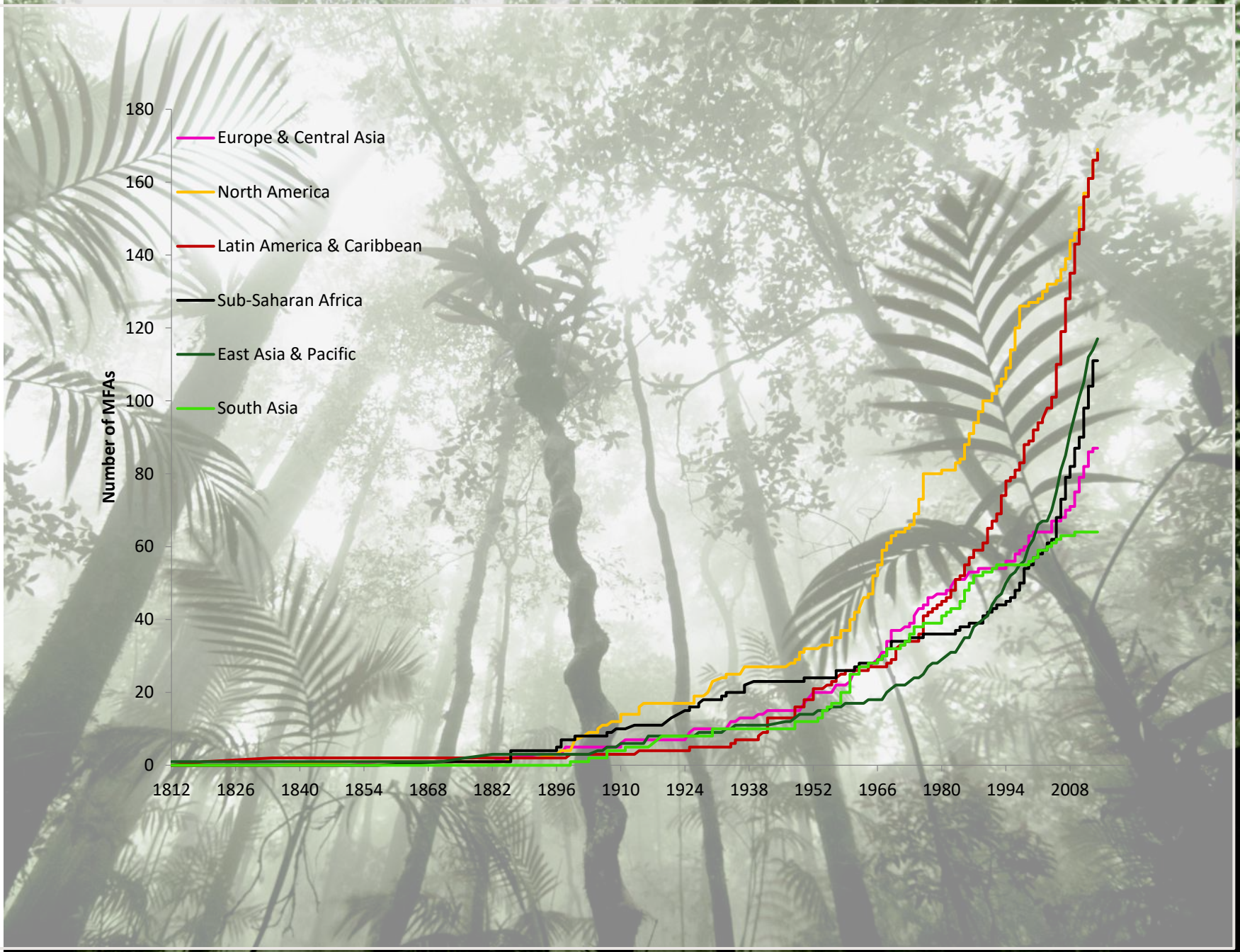
Global Extent of Mines in Forested Areas (MFAs)

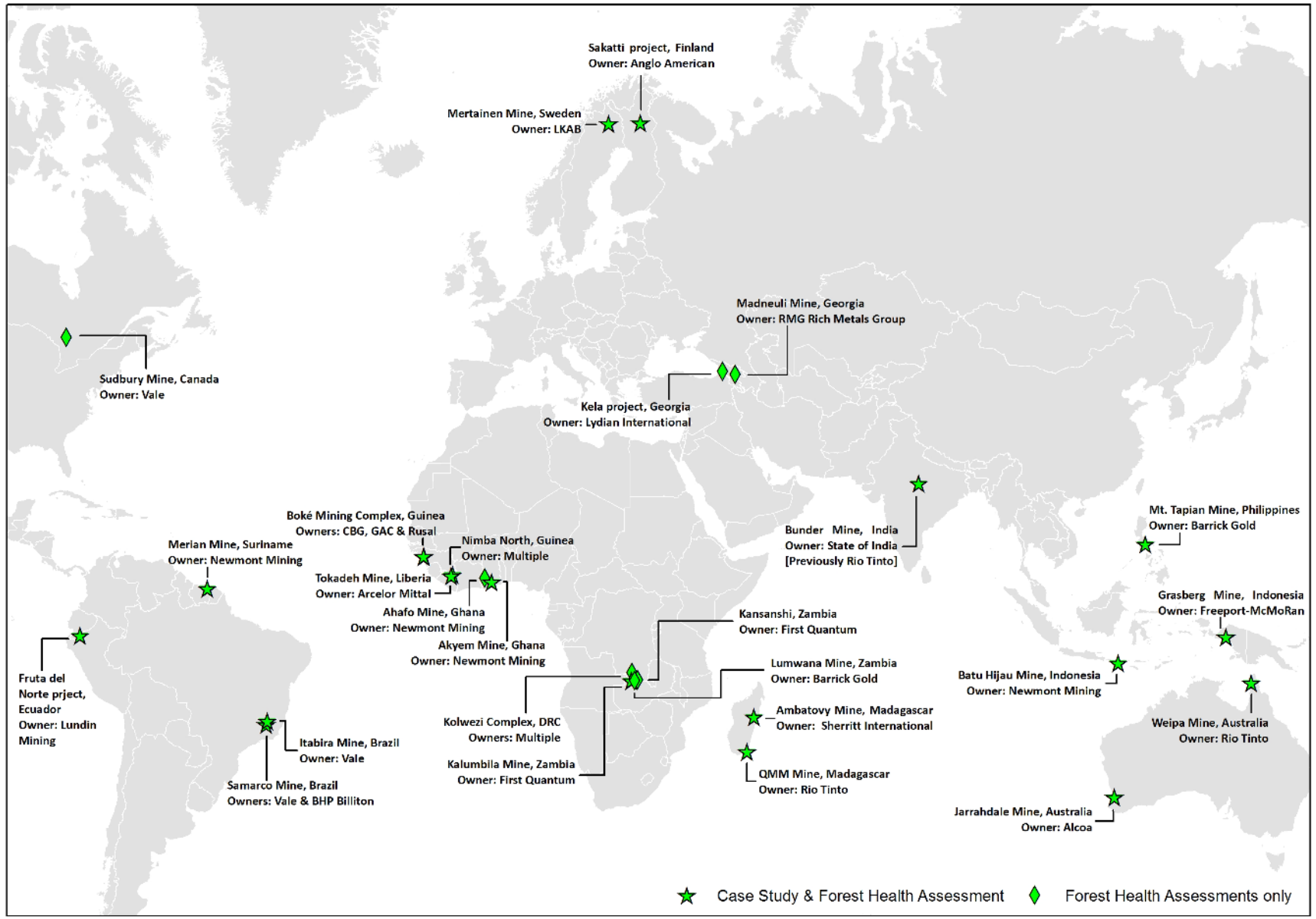
Country	Importance of Mining in Forests Rank
Brazil	1
DRC	2
Zambia	3
Ghana	4
Zimbabwe	5
Philippines	6
China	7
Indonesia	8
Albania	9
Russia	10
Australia	11
Canada	12
India	13
Mexico	14
South Africa	15
Sweden	16
Finland	17
Romania	18
United States	19
Colombia	20

Operational MFAs

Before 2005, 4.5 MFAs were commissioned each year, since then this has increased by more than 420 percent



Case Study Approach



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Addressing Indirect and Cumulative Impacts are key

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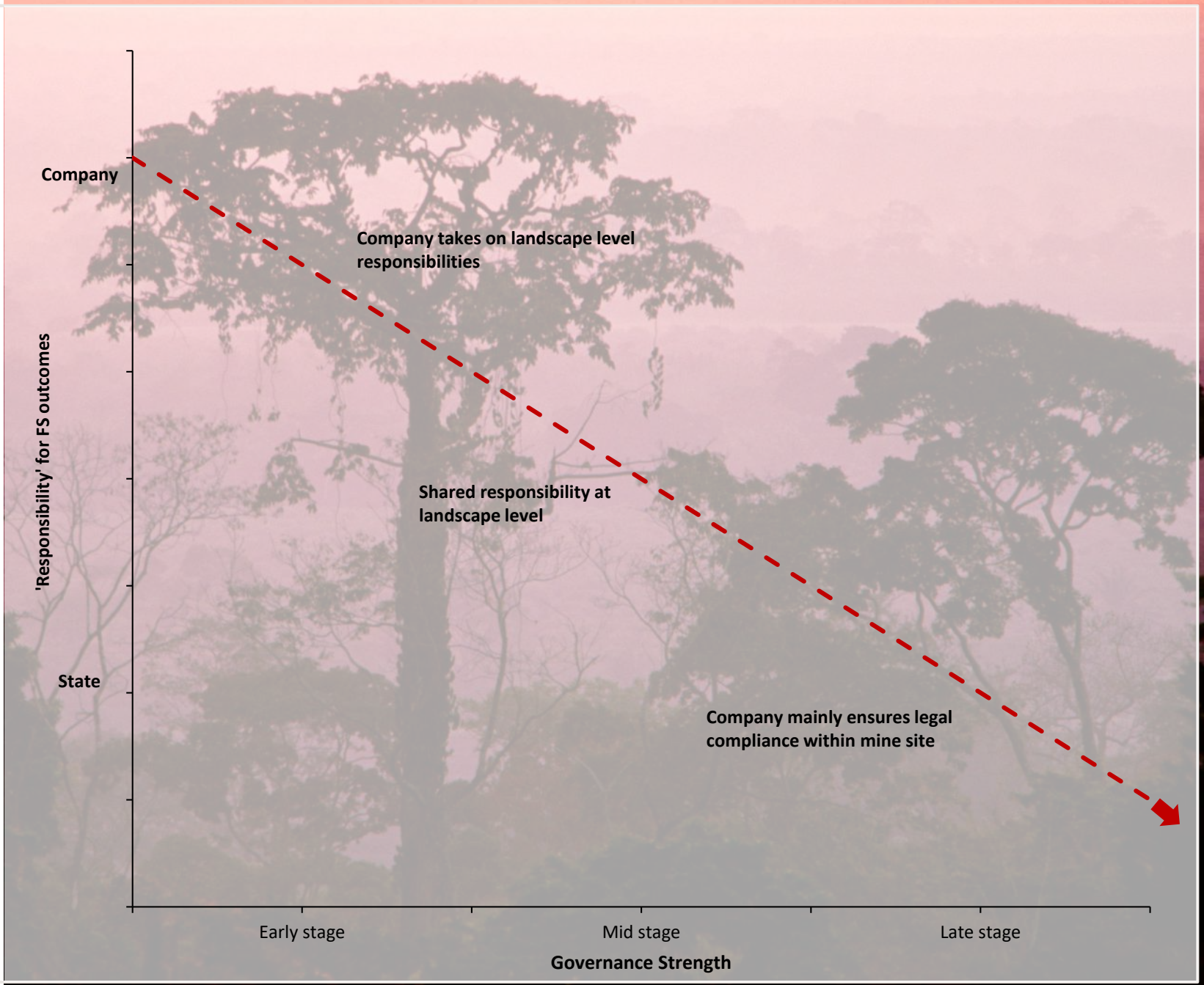
Companies cannot achieve Forest Smart Mining alone

There is a shared responsibility between business and government



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Artisanal and Small Scale Mining (ASM) in forests

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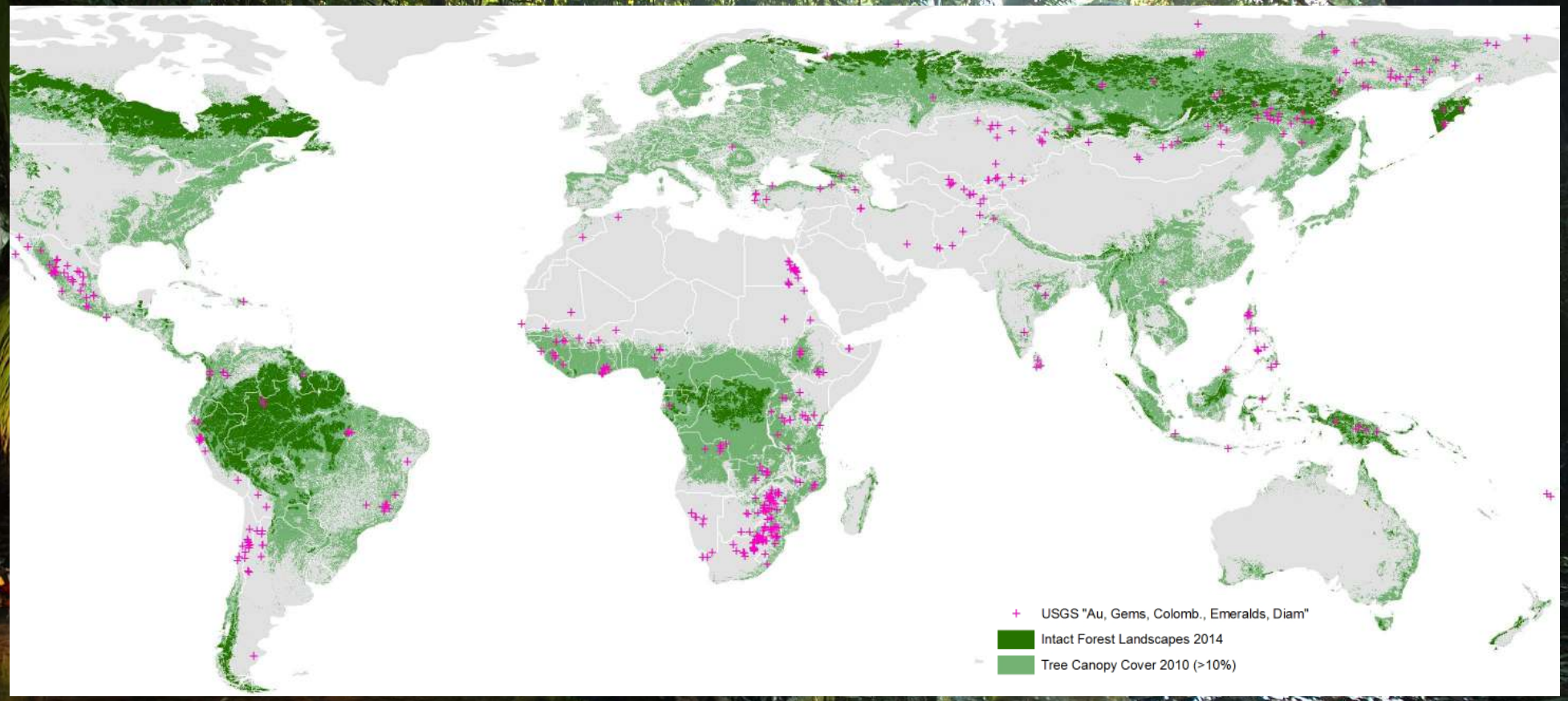
Gold, Gems, Diamonds & Niobium; as a proxy for ASM in low & middle-income countries



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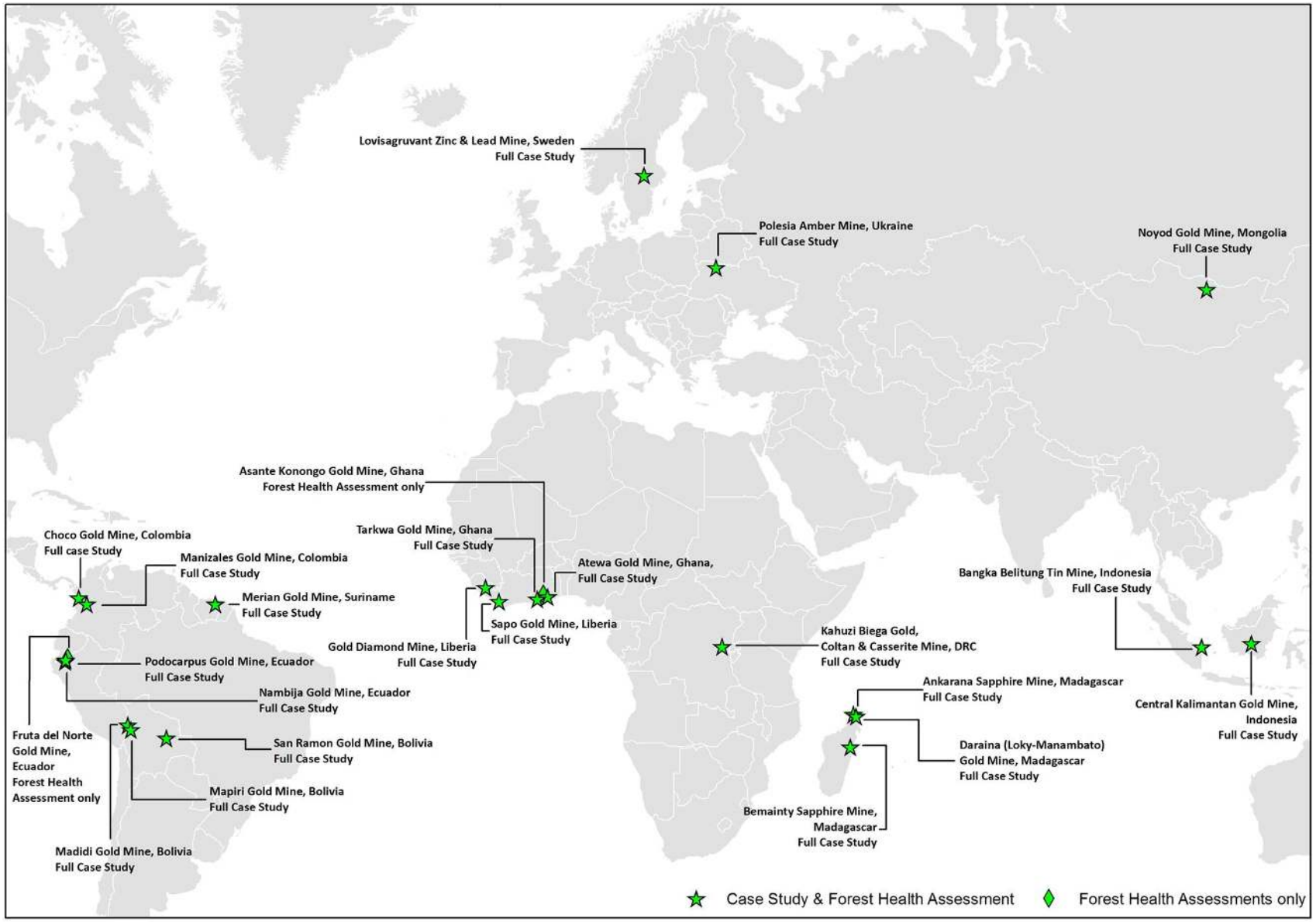
Case study approach



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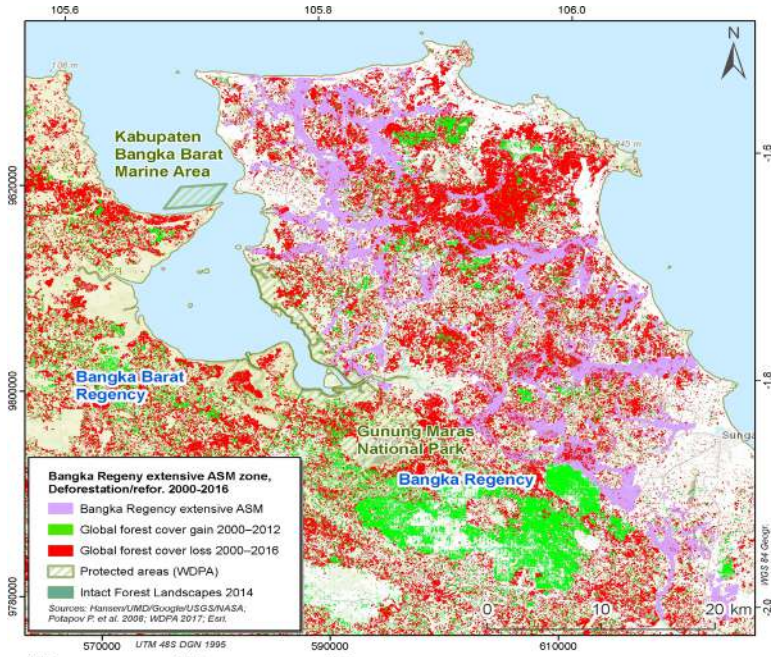
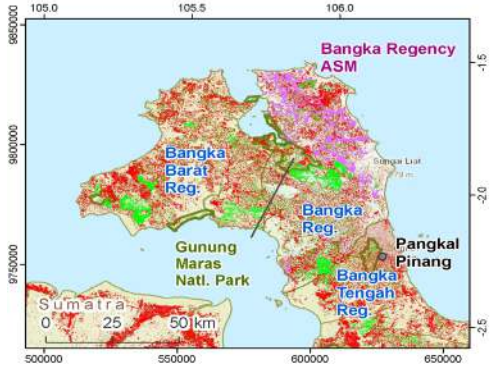
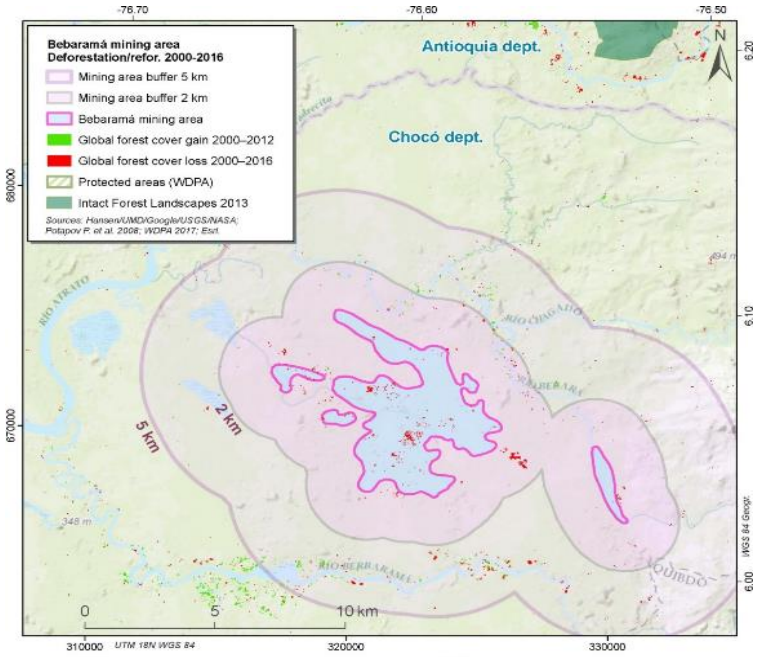
ASM has relatively minor direct impacts on forests





The Bangka Regency extensive ASM zone, Global Forest Cover Loss/Gain 2000-16 (Global Forest Change, Univ. Maryland), Protected areas (World Database on Protected Areas), Intact forest (Intact Forest Landscapes 2013).



The Bebaramá mining area, with buffer areas (2km, 5km), Global Forest Cover Loss/Gain 2000-16 (Global Forest Change, Univ. Maryland), Protected areas (World Database on Protected Areas), Intact forest (Intact Forest Landscapes 2013).

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ASHER SMITH

ASHER SMITH, LEVIN SOURCES

ASM impacts on soil and water quality are often more severe

Economic conditions are stronger determinants of the forest impacts of ASM than mechanisms, such as environmental governance

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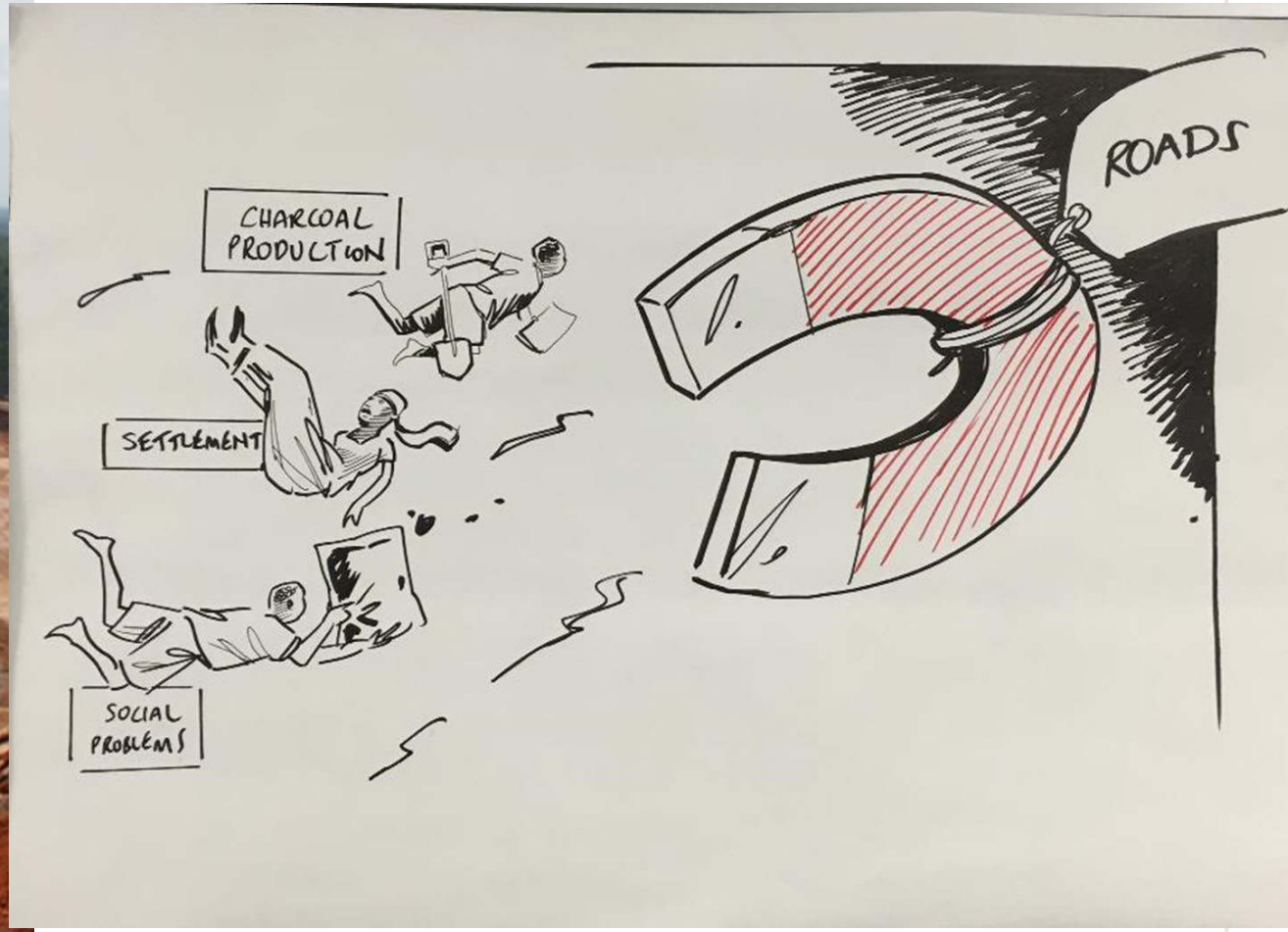
Forest Smart Recommendations


ROADS
CHARCOAL PRODUCTION
SETTLEMENT
SOCIAL PROBLEMS

Thank you

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