4 April 2012, 5th GEOSS-AP symposium, Tokyo

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# REPORT FROM WG2 (AP-BON)

# AP-BON VISION

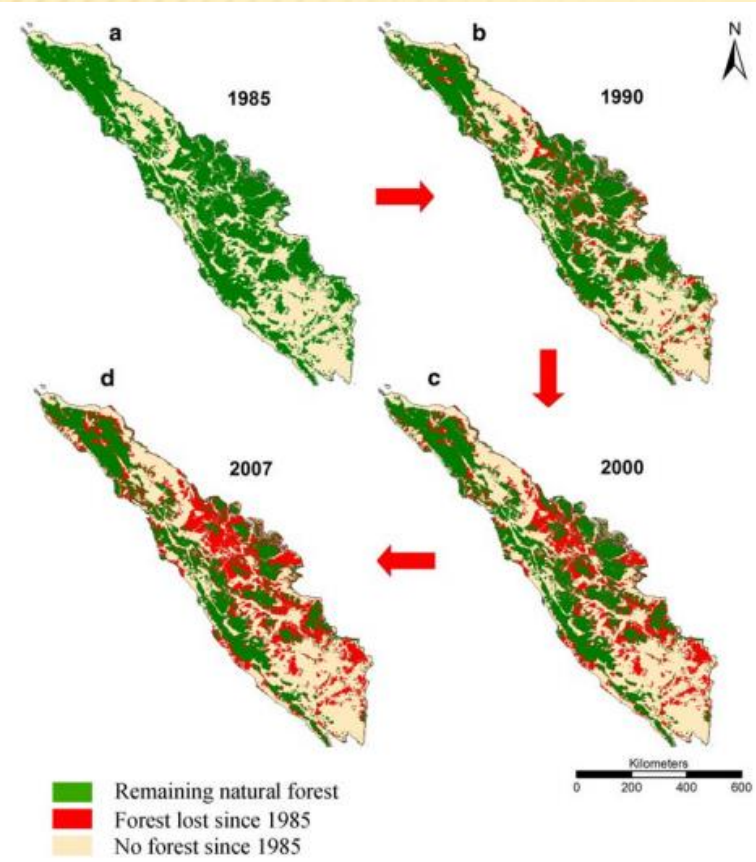
- To establish a Coordinated Asian Network that gathers and shares information on biodiversity and ecosystem services
- To provide tools for data collection, sharing/exchange, analysis, and synthesis/integration, and
- To contribute to improving ecosystem management, sustainable use of biodiversity and human well-being

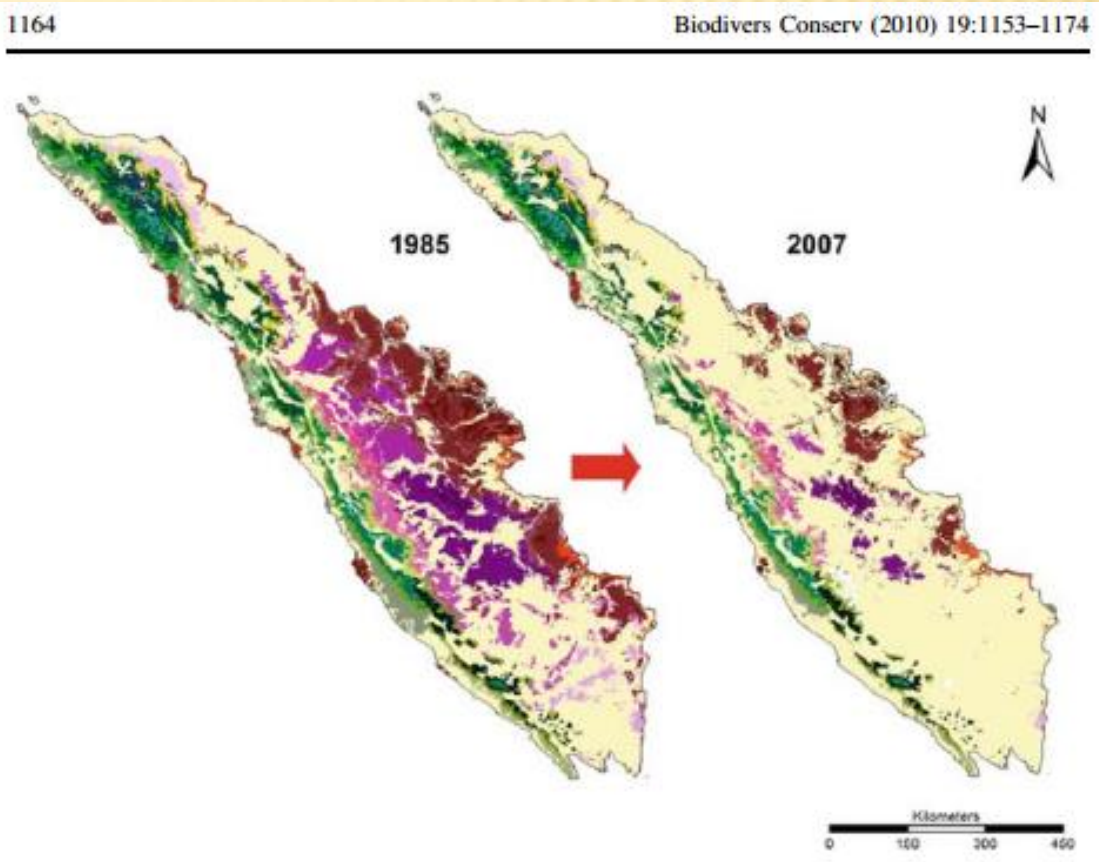
# AP-BON MISSIONS

- Observing and analyzing changes in biodiversity over time.
- Improving delivery of biodiversity information and services to users, particularly decision-makers.
- Facilitating linkages among many countries, organizations and individuals contributing to biodiversity observations.
- Identifying gaps between existing biodiversity observation systems and promoting mechanisms/projects to fill them.

# WE LEARNED ABOUT SERIOUOS FOREST LOSS

Satellite data have been successfully used to document forest loss.

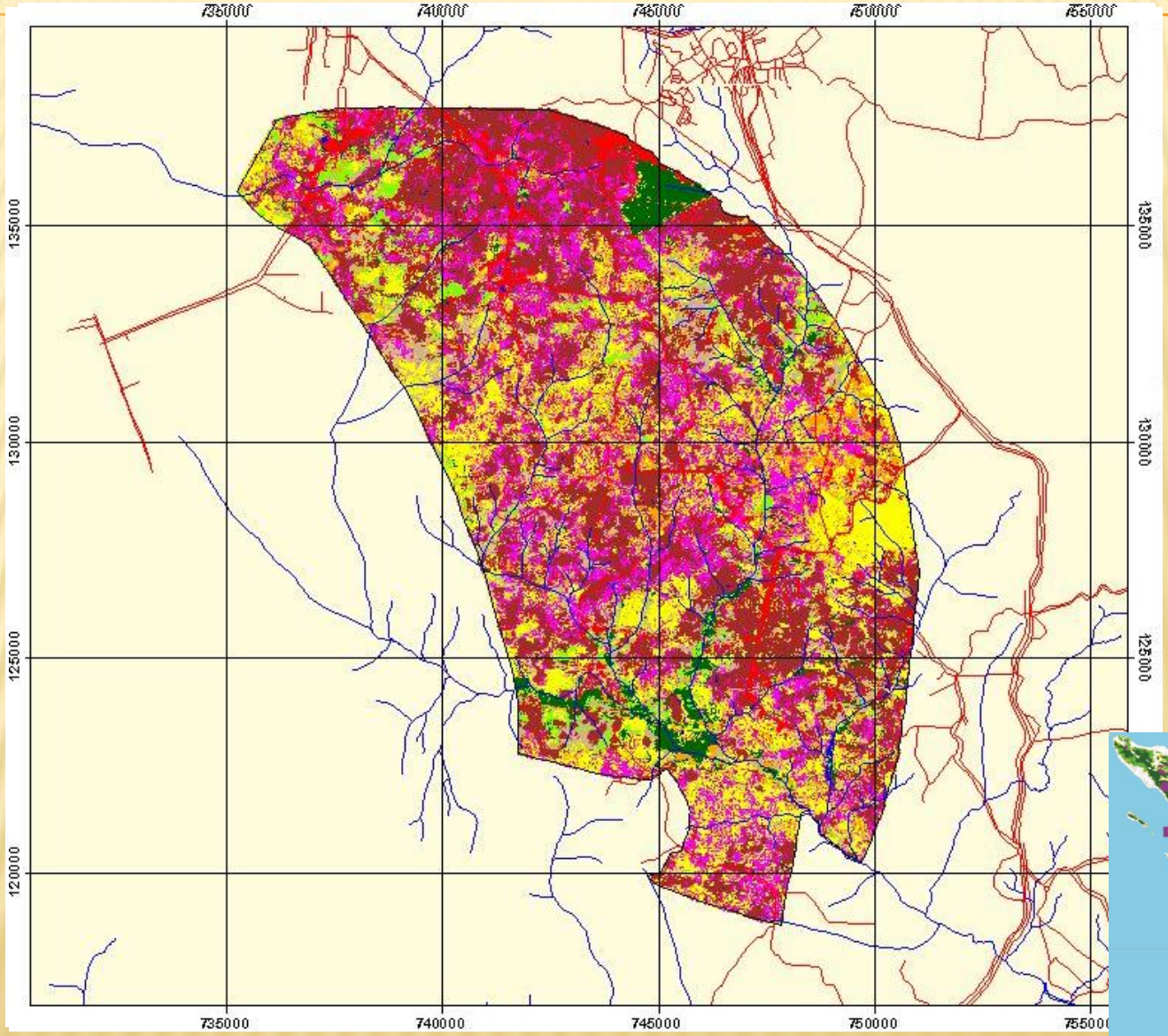


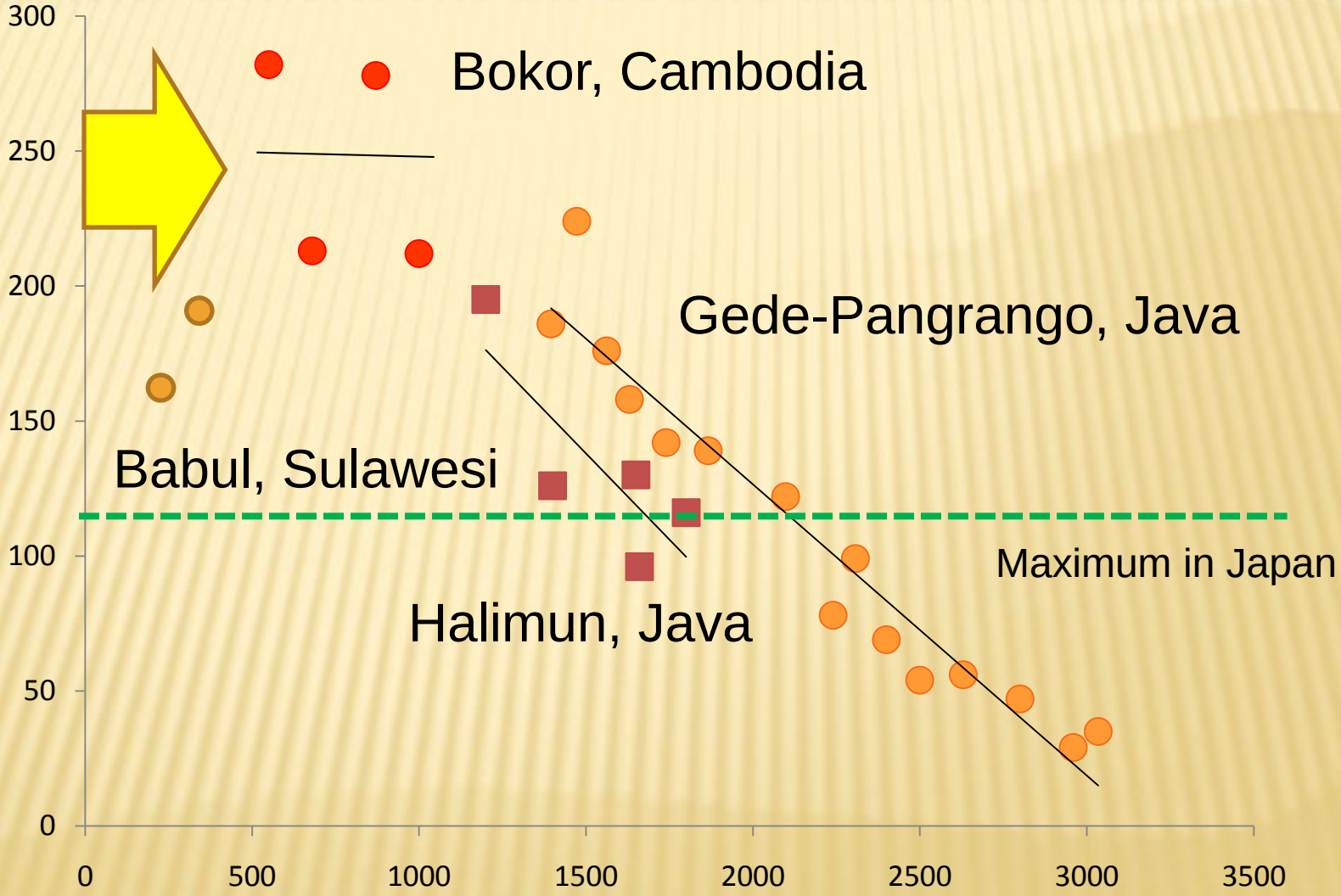

Laumonier et al. (2010)

# Balairaja Nature reserve, Sumatra

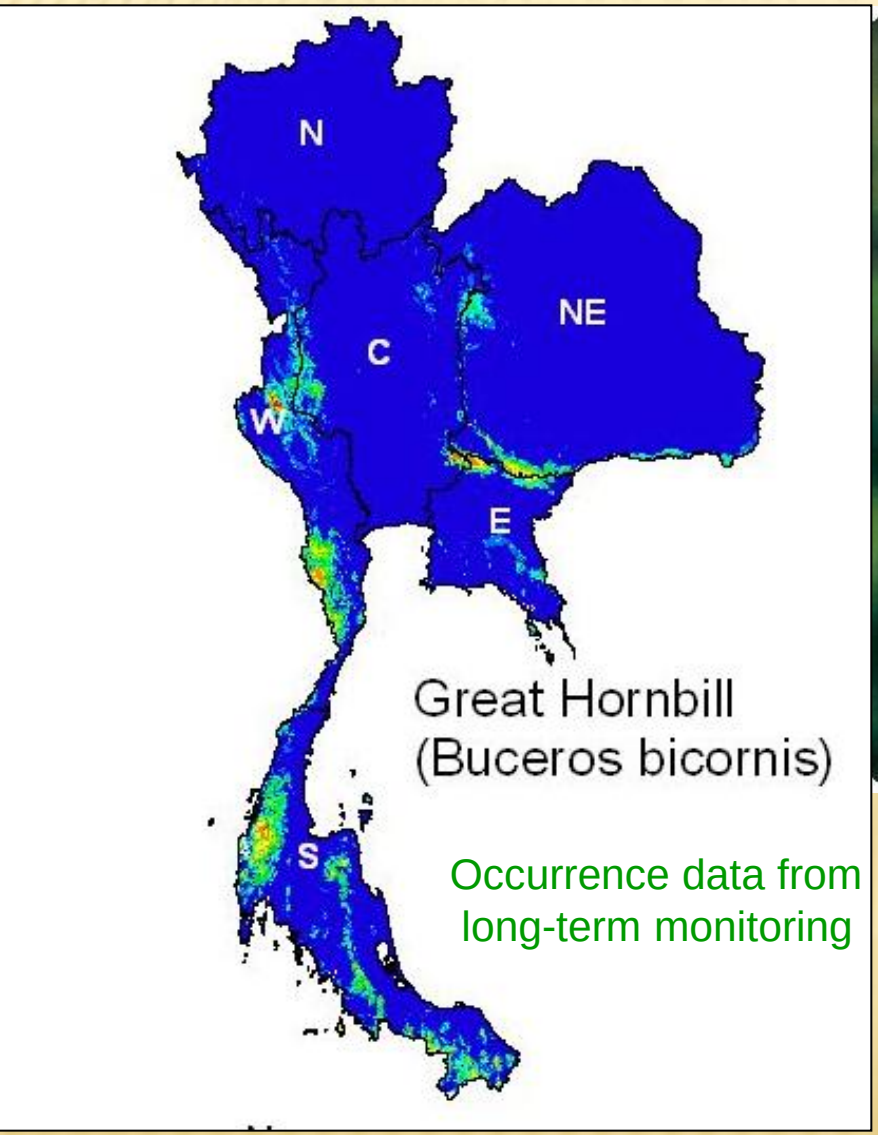
**Slide of Lilik Budi Prasetyo, Bogor National University, Indonesia**




# LOGGING GOING UP TO MOST SPECIES-RICH ZONE



# HABITATS OF MANY ANIMALS BEING LOST





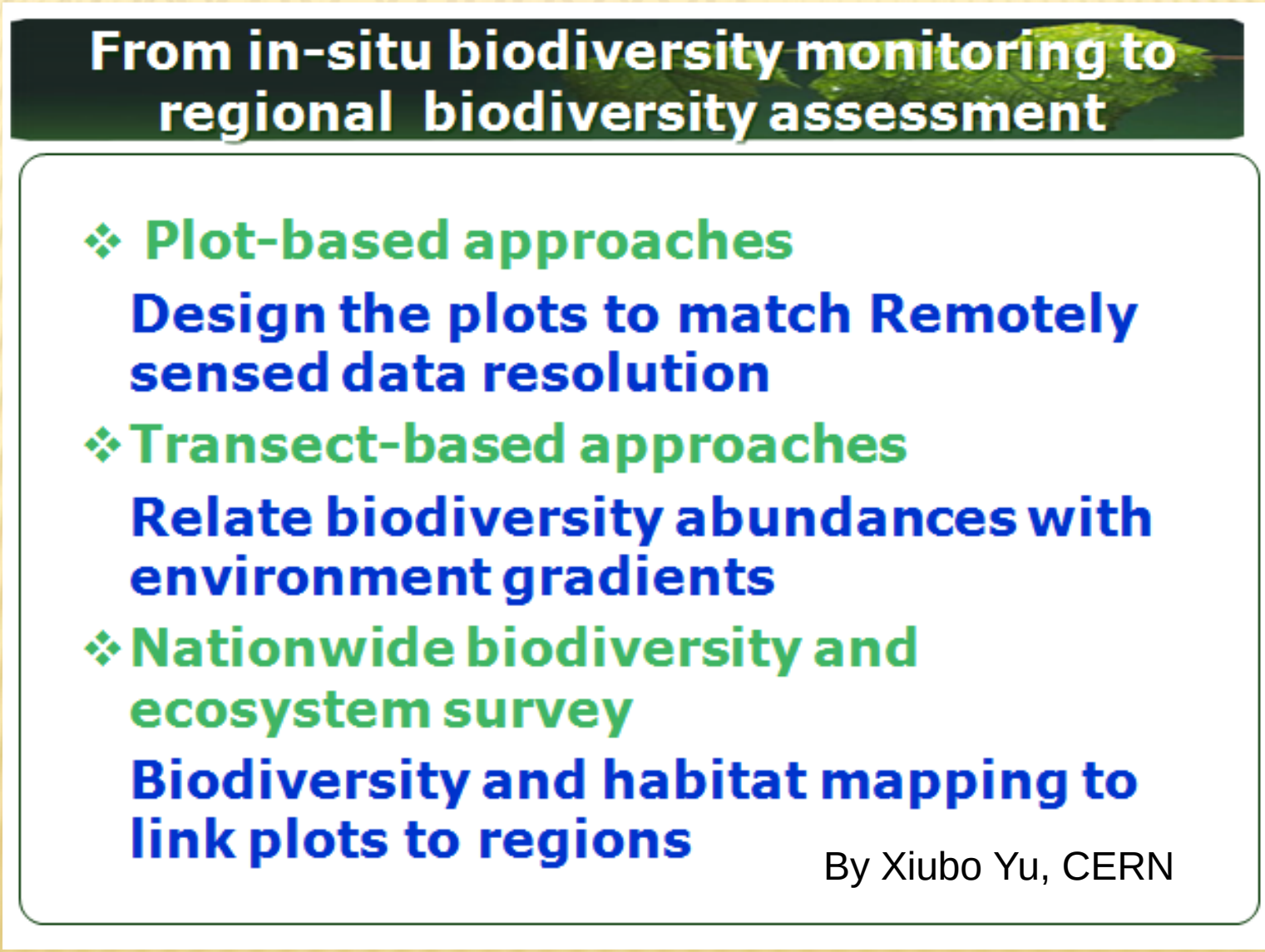
**National level**

- 36,131 km$^{2;}$ 7.05%

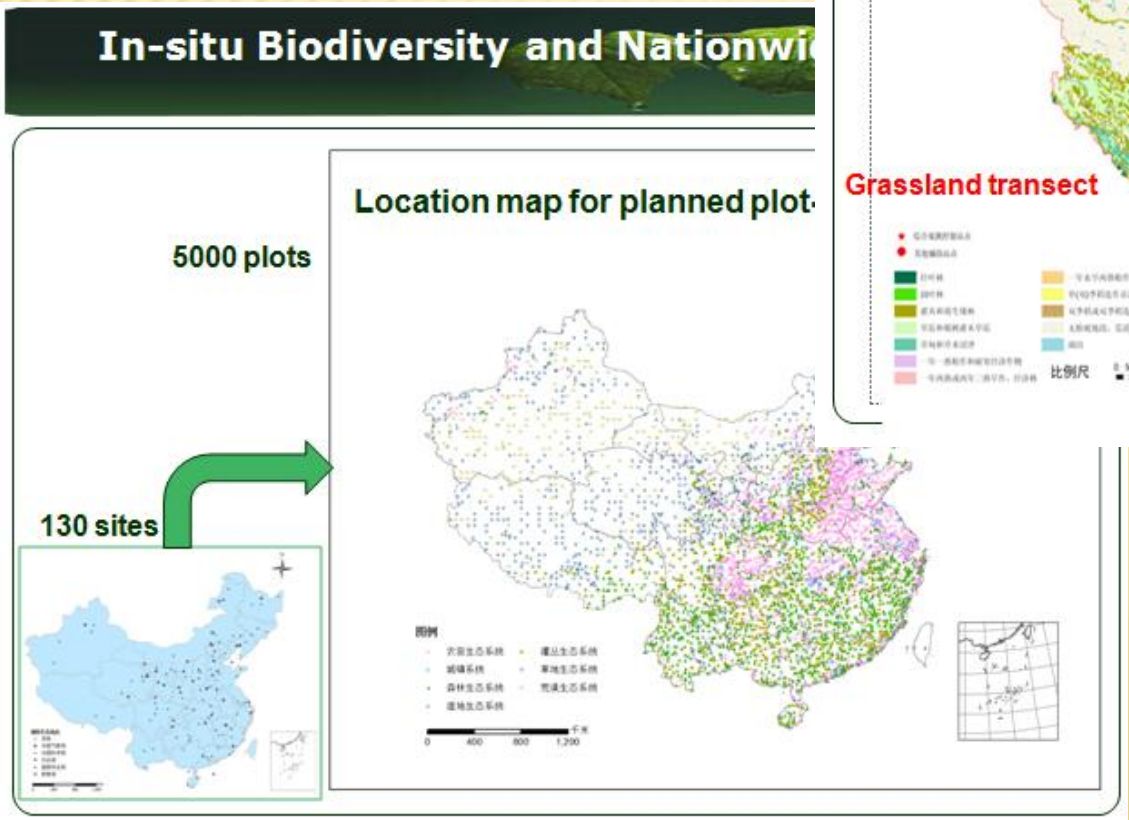
**PAs**

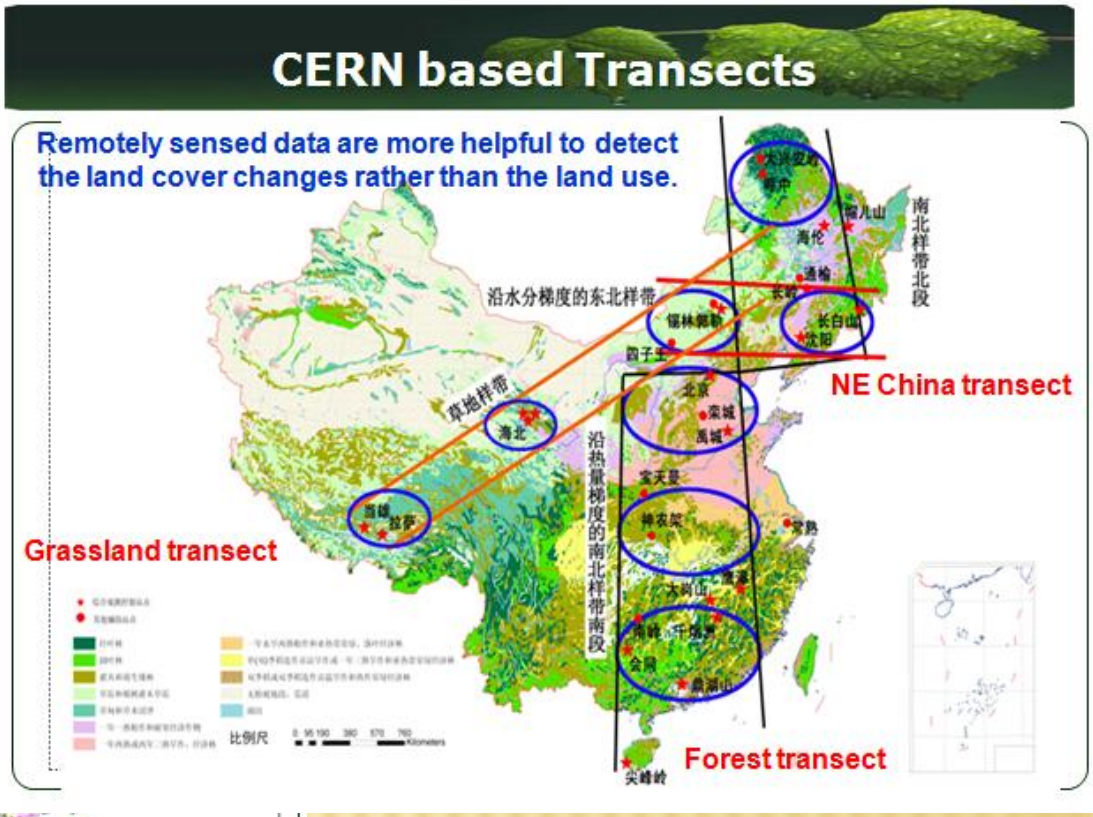
- 13,053 km$^{2}$; 36%

# SYSTEMATIC APPROACH



# PLOT AND TRANSECT STUDIES

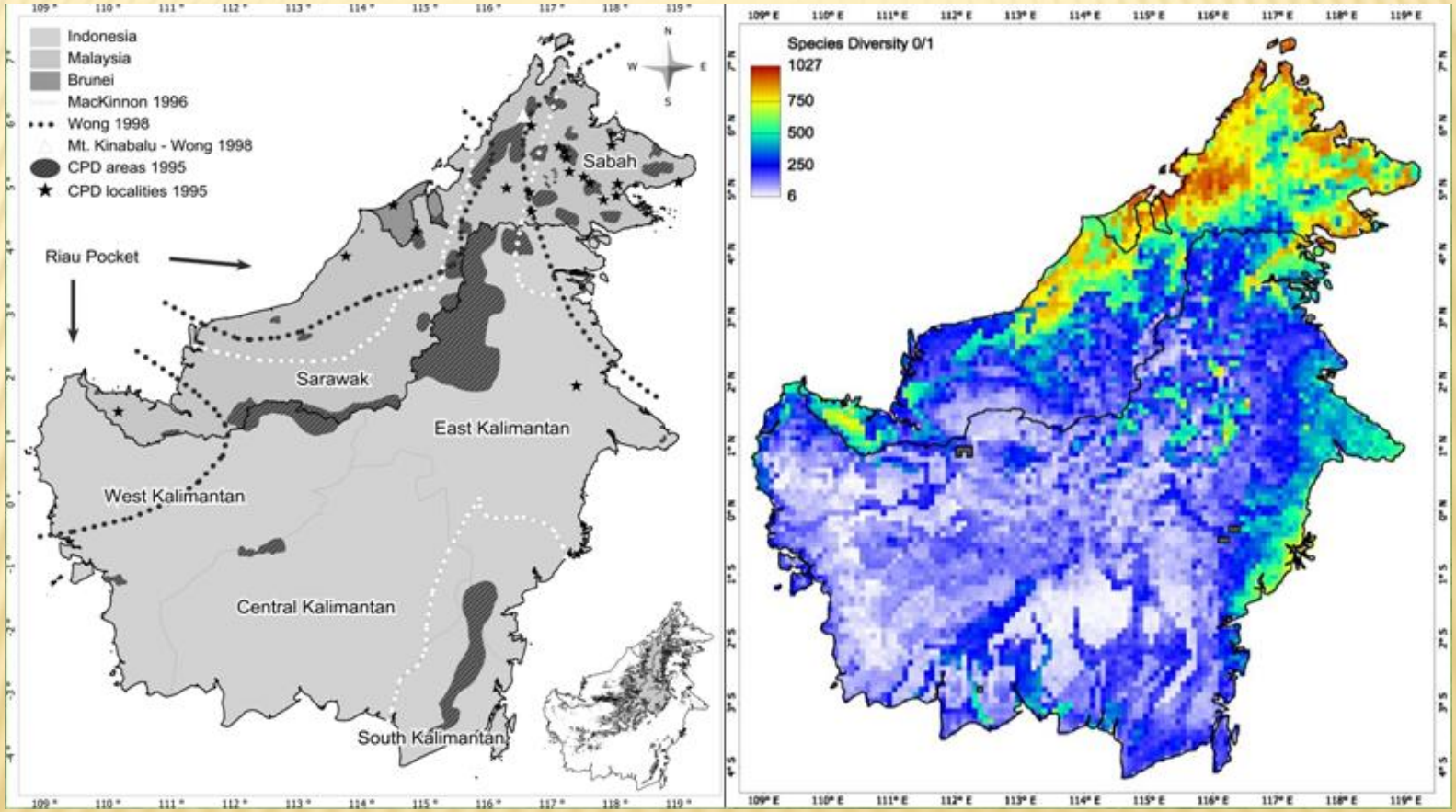



By Xiubo Yu, CERN

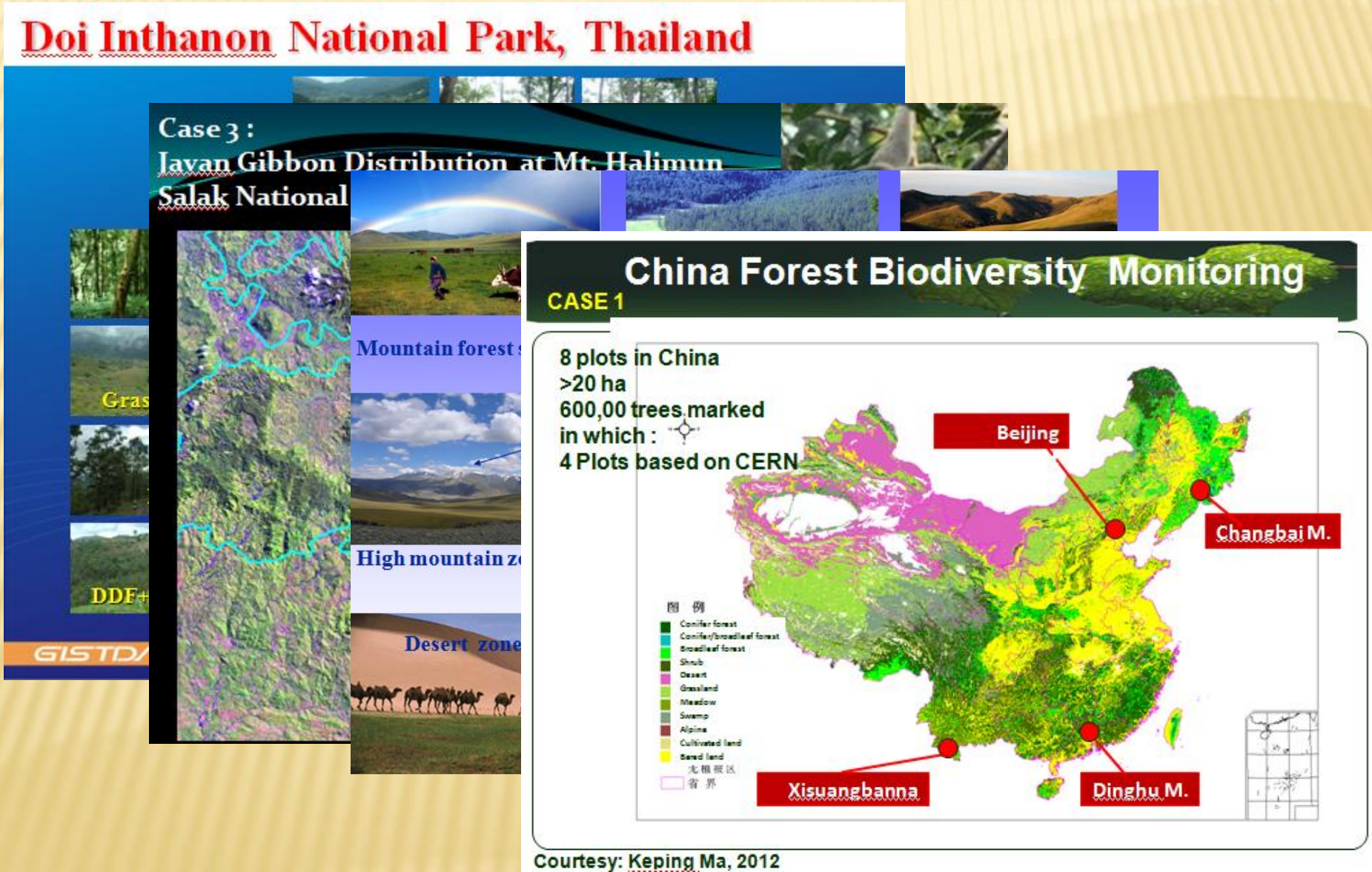
# SPECIES RICHNESS/ENDEMISM IN BORNEO

Specimen-based approach with niche modeling




Based on distribution models of 2,273 spp (102 families; 44,106 specimen records): Raes et al. 2009 Ecography 32:180-192

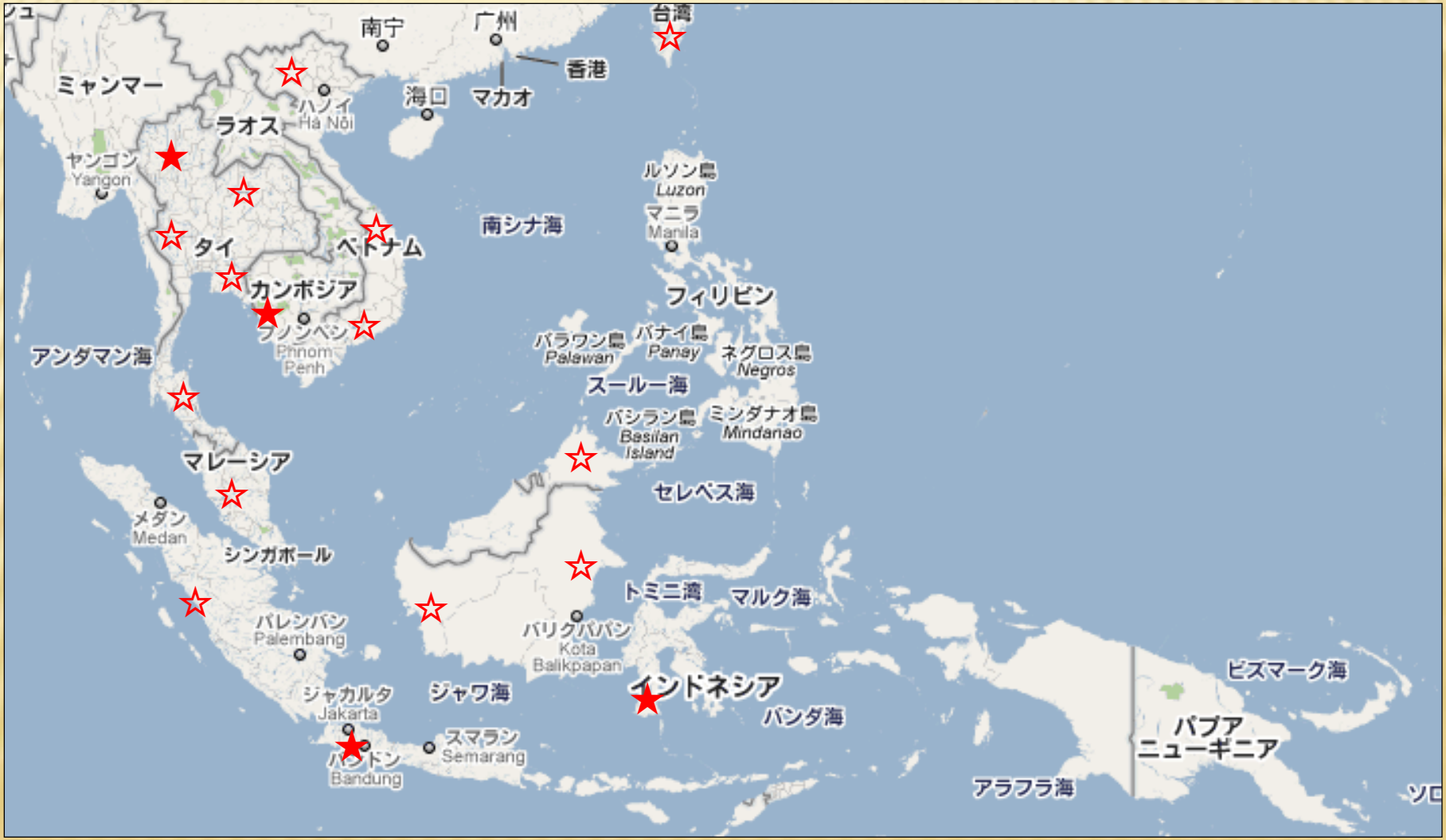
# WORK TOGETHER IN CORE-SITES/SUPERSITES



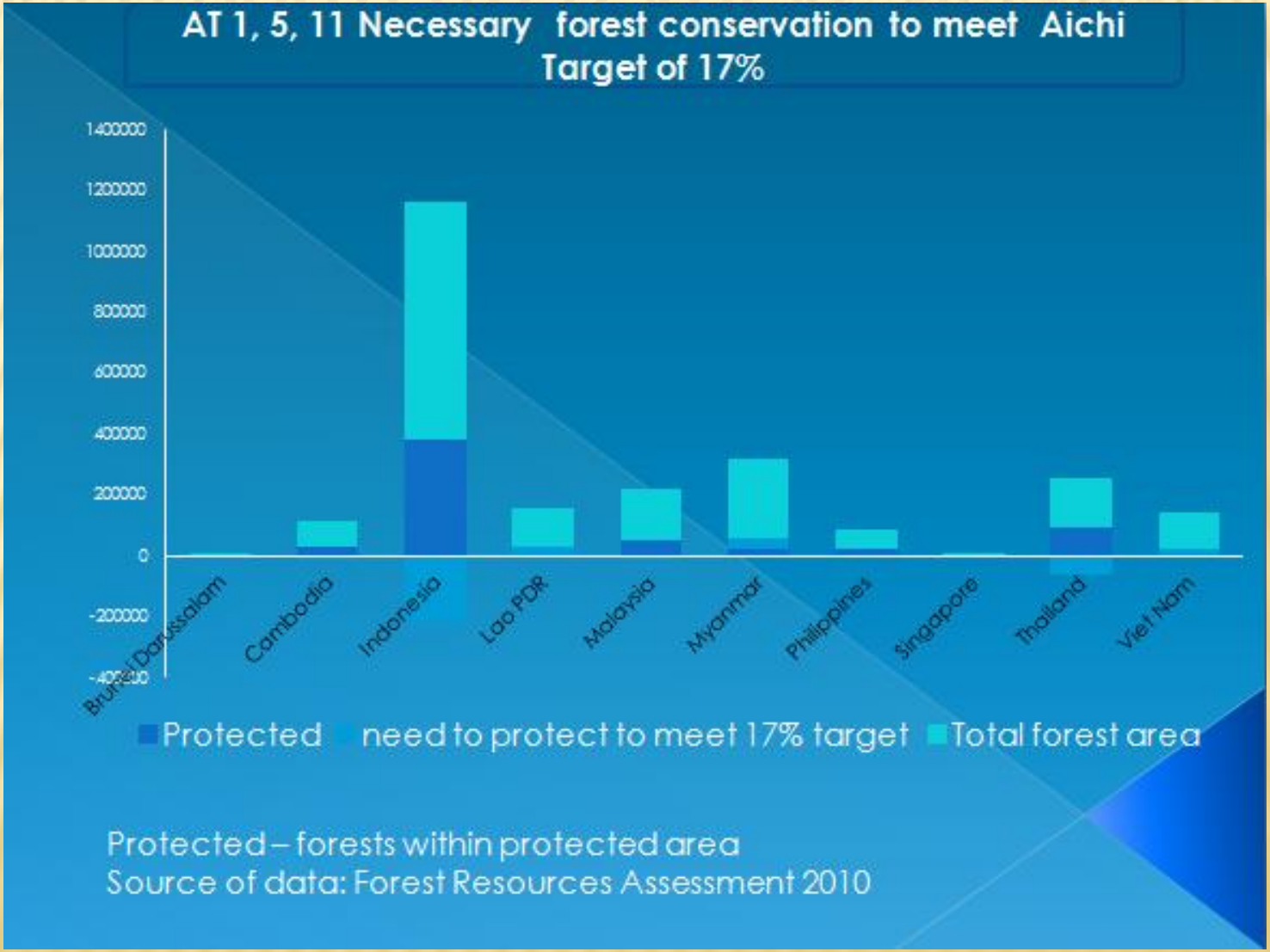

Courtesy: Keping Ma, 2012

# CANDIDATE MOUNTAINS FOR TRANSECT SURVEYS

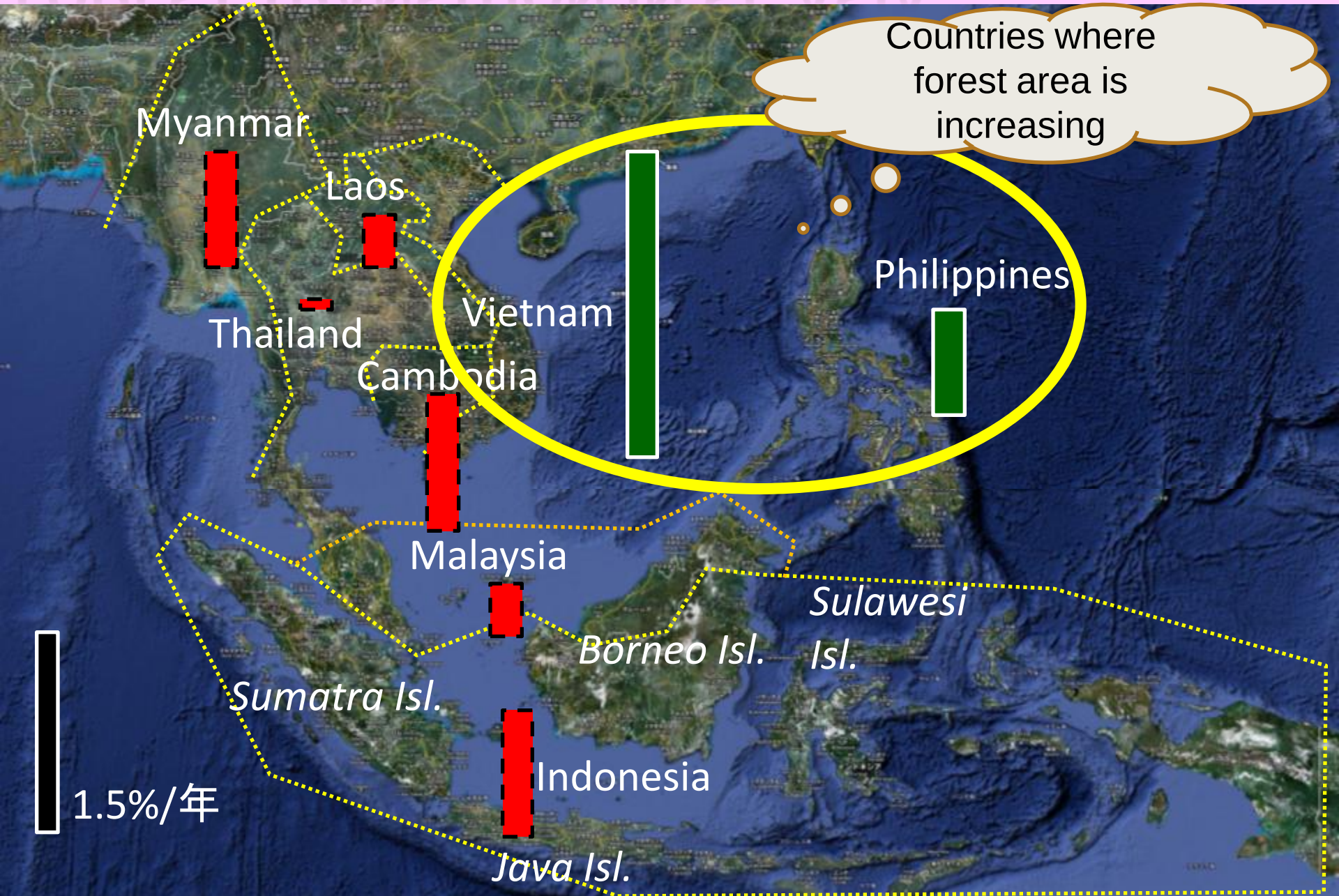
Collaboration of Asian scientists is inevitable



# LARGER PROTECTED AREAS NEEDED



# FOREST TRANSITION IN SE ASIA



# ACTIVITIES TO ACHIEVE "GREEN GROWTH"

- Assessment of forest/species/services loss
  - Plots/transects/speciems + fine-scale remote sensing + GIS
  - Coordinated assessments in core-sites/supersites
  - Baseline for REDD+
- Gap analysis for areas to be protected
  - Prioritizing conservation efforts
- Scenario analysis
  - Considering socio-ecological changes
  - To minimize loss before forest transition