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Conservation priorities for native Asian tree species from a multi-threat assessment

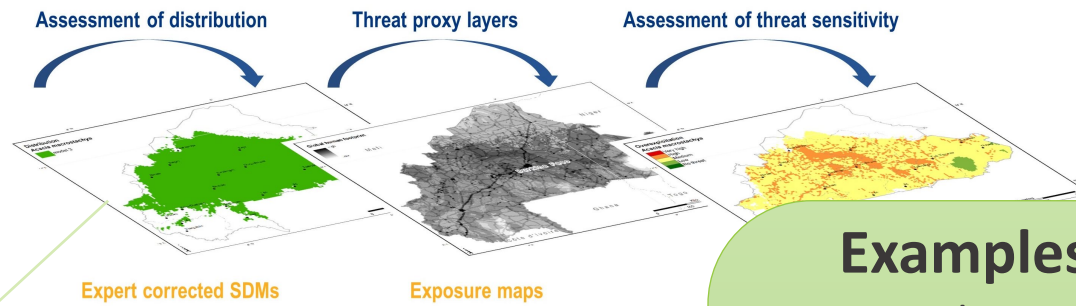
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FAO-FTA Online expert workshop, 24 March 2021



How the study was done



Identification of regionally important pilot species

Collection of species occurrence and trait data

Current and future distribution maps and threat maps

Interactive data portal and tools at tree-diversity.org

Examples of uses

- Develop species-specific conservation and management plans
- Identify synergies between species and/or countries
- Identify target species and possible seed sources for restoration

Country priority species lists

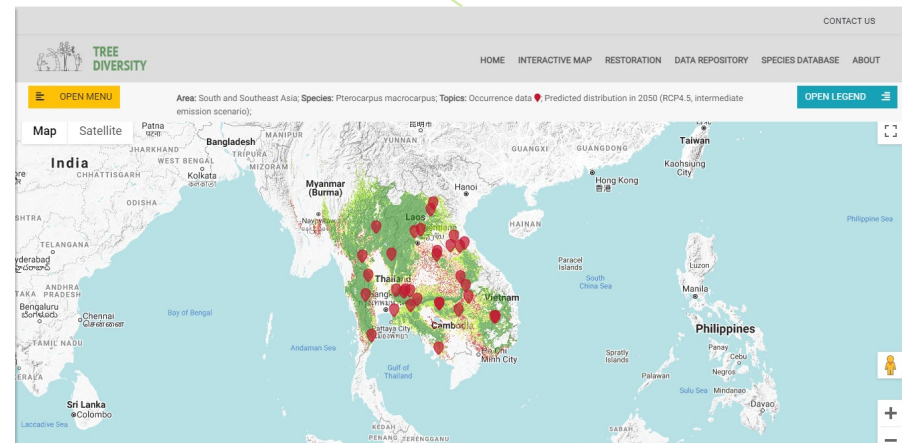
Expert workshop

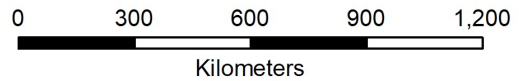
10,000+ data points for 65 species

40+ contributors

5 climate models and 2 scenarios (RCP4.5/8.5)

Validation by experts & literature







In situ conservation priorities

What is a “hotspot”?

- At least 10 of the 65 pilot species coincide
- All have low vulnerability to 5 major threats: habitat conversion, overexploitation, fire, grazing and climate change

Hotspots for in situ conservation

 not protected

 protected

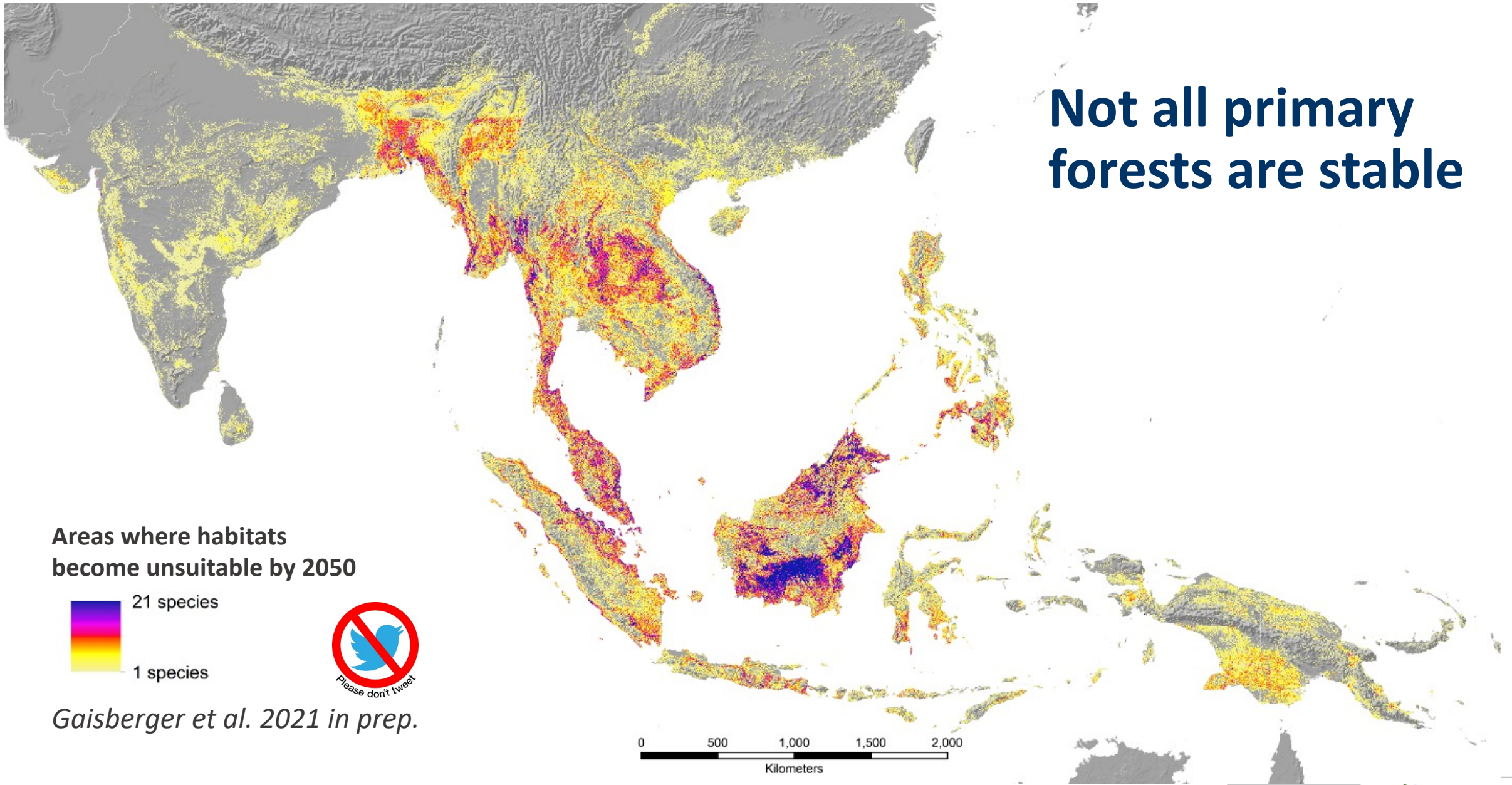
Ecoregions



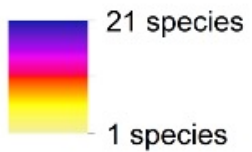
Please don't tweet

Gaisberger et al. 2021 in prep.

Not all primary forests are stable



Areas where habitats become unsuitable by 2050



Gaisberger et al. 2021 in prep.

Contributing organizations and experts

Organizations

- Forestry Department of Bangladesh
- Food and Agriculture Organization of the United Nations
- ASEAN Centre for Biodiversity
- Forest Department of Sri Lanka
- Forest Restoration Research Unit of Chiang Mai University (FORRU), Thailand
- Institute of Forest and Wildlife Research and Development, Cambodia
- Institute of Agricultural Genetics (AGI), Vietnamese Academy of Agricultural Sciences
- Tropical Rainforest Conservation & Research Centre (TRCRC)
- Sarawak Forestry Corporation (SFC), Malaysia
- Universiti Putra Malaysia (UPM), Faculty of Forestry
- Forest Research Institute Malaysia (FRIM)

11 International, regional and national organisations
Over 50 individual experts
from **14 countries**

With funding from



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Implementing the Global Plan of Action
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Thank you!

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www.apforgen.org

www.tree-diversity.org

