NORTHERN FORESTS AND CLIMATE CHANGE

NGO CONTIBUTION TO
45TH JOINT ECE/FAO WORKING PARTY DISCUSSION ON FORESTS AND CLIMATE CHANGE

GENEVA, 23 MAY 2024

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NORTHERN FORESTS AND CLIMATE CHANGE PROJECT

- NGO coalition: increase visibility of Northern Forests in international climate debate;

- Based on common demands:
  - Limit temperature rise to 1.5°C;
  - Protect and restore forests to deliver full range of ecosystem services;
  - Protect at least 30% of forests, incl. all primary forests, in every country;
  - Shift to ecosystem/close-to-nature management models.

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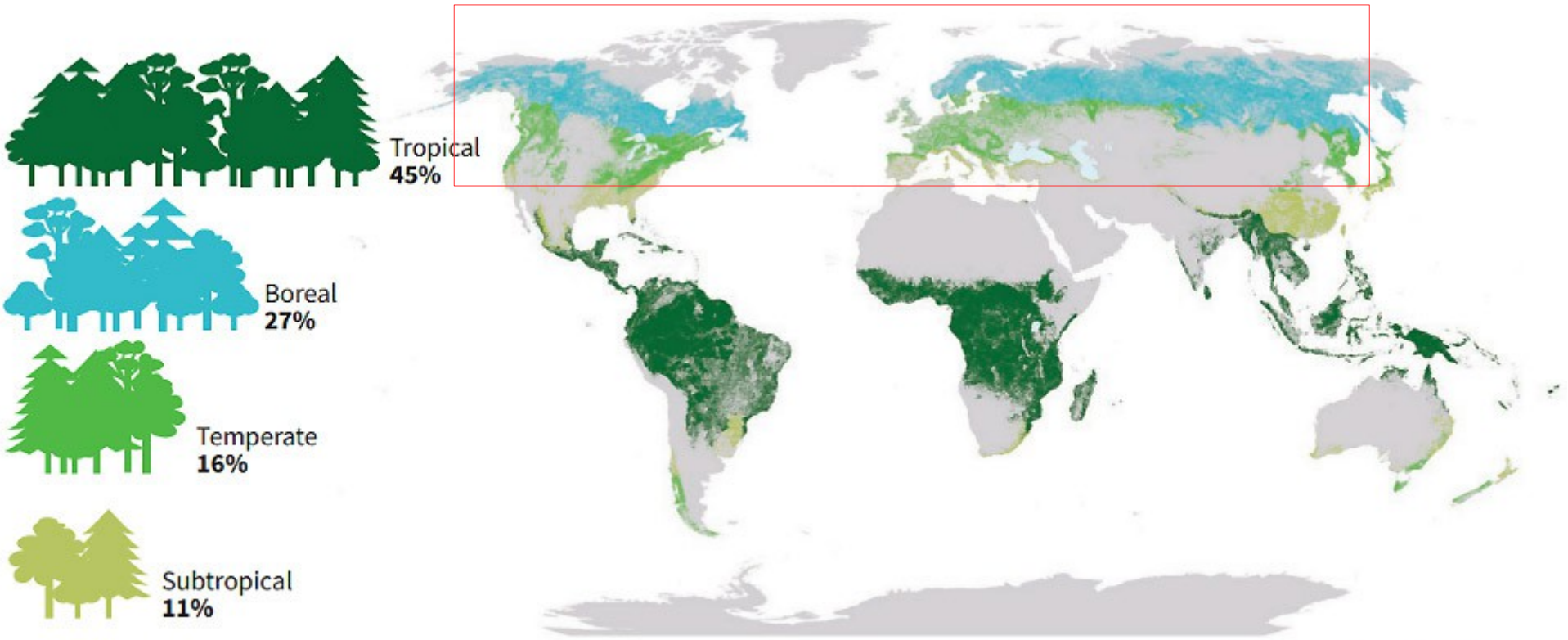
NORTHERN FORESTS



Source: Adapted from United Nations World map, 2020.

Includes boreal and temperate forests of North America and Europe, including Russia

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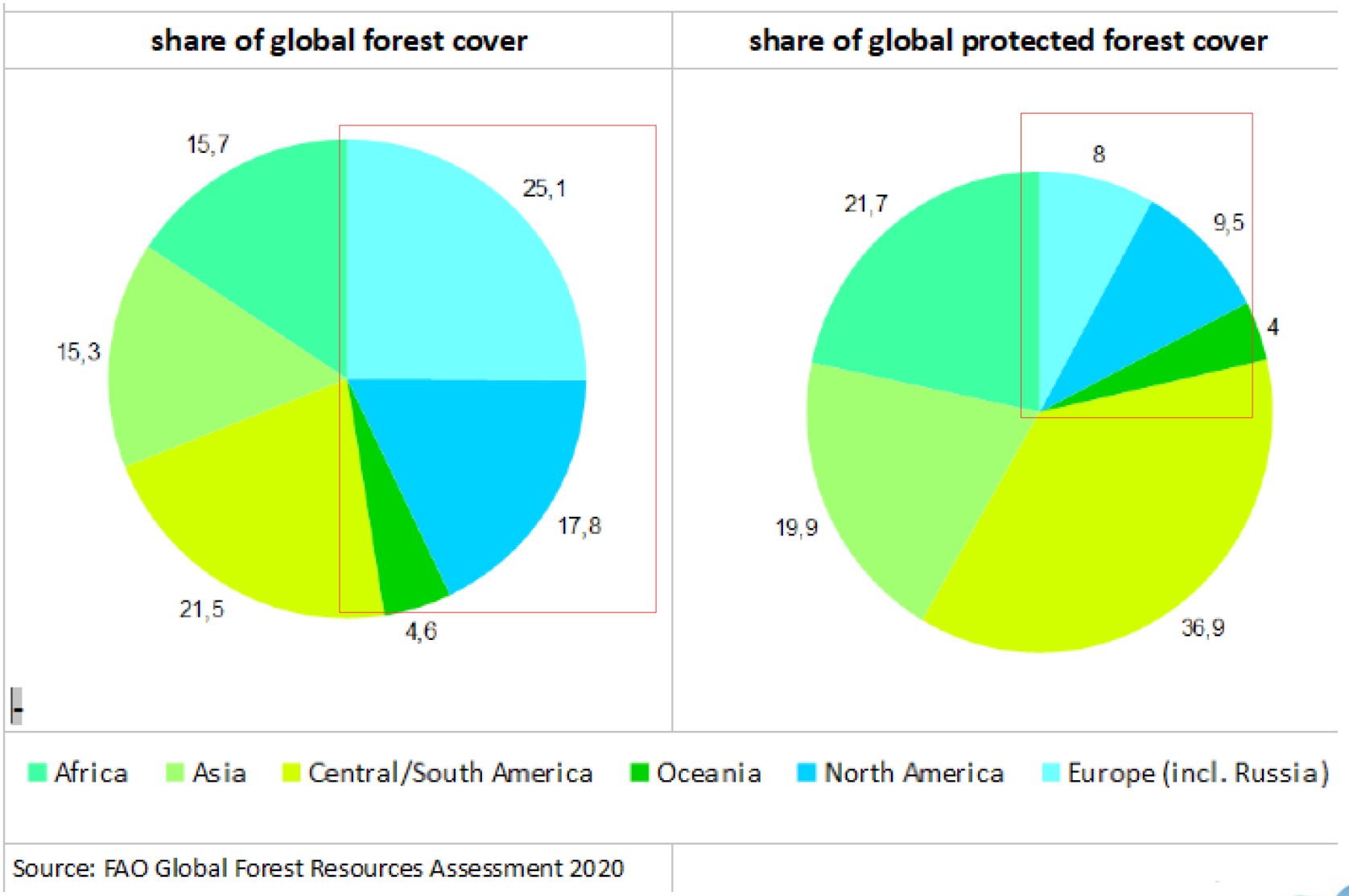
>40% SHARE OF GLOBAL FOREST COVER
<20% SHARE OF PROTECTED FORESTS



Source: FAO Global Forest Resources Assessment 2020

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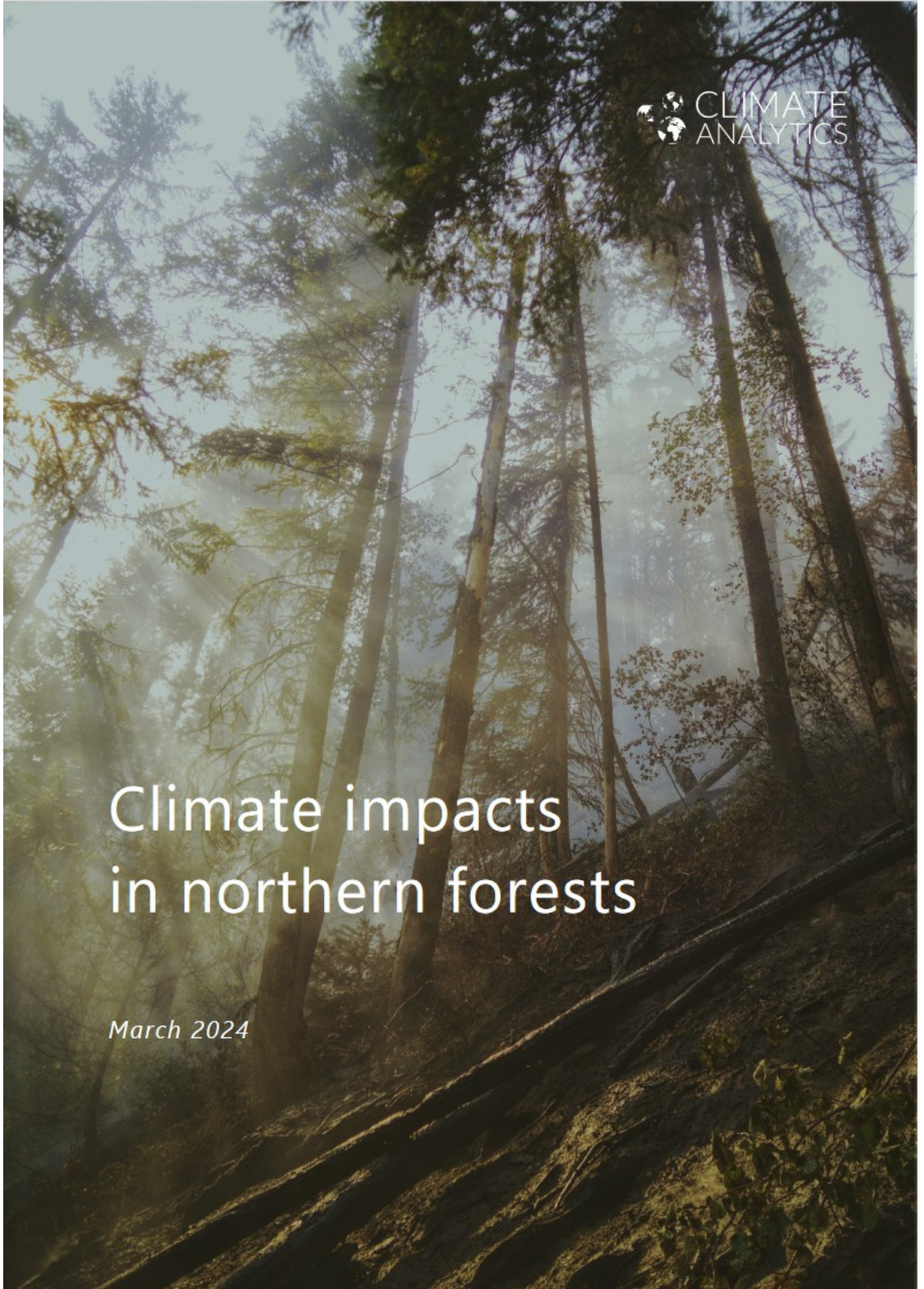
ALMOST HALF OF GLOBAL CARBON STOCK

Global forest carbon stock

	Share of global forest carbon stock	share of carbon stock in forest biomass	share of carbon stock in forest soils
Northern Forests	**47%**	**39%**	**57%**
North America	21%	19%	23%
Russia	20%	15%	26%
Europe (excl. Russia)	6%	5%	7%
Other Forests	**53%**	**61%**	**43%**
Central & South America	23%	29%	15%
Asia	13%	12%	14%
Africa	12%	15%	9%
Oceania	5%	5%	5%

Source: FAO Global Forest Resources Assessment 2020



- Higher than average temperature
- Increased droughts/fires, insects, ...
- Managed forests more vulnerabe

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INCREASED DROUGHT AND FIRES

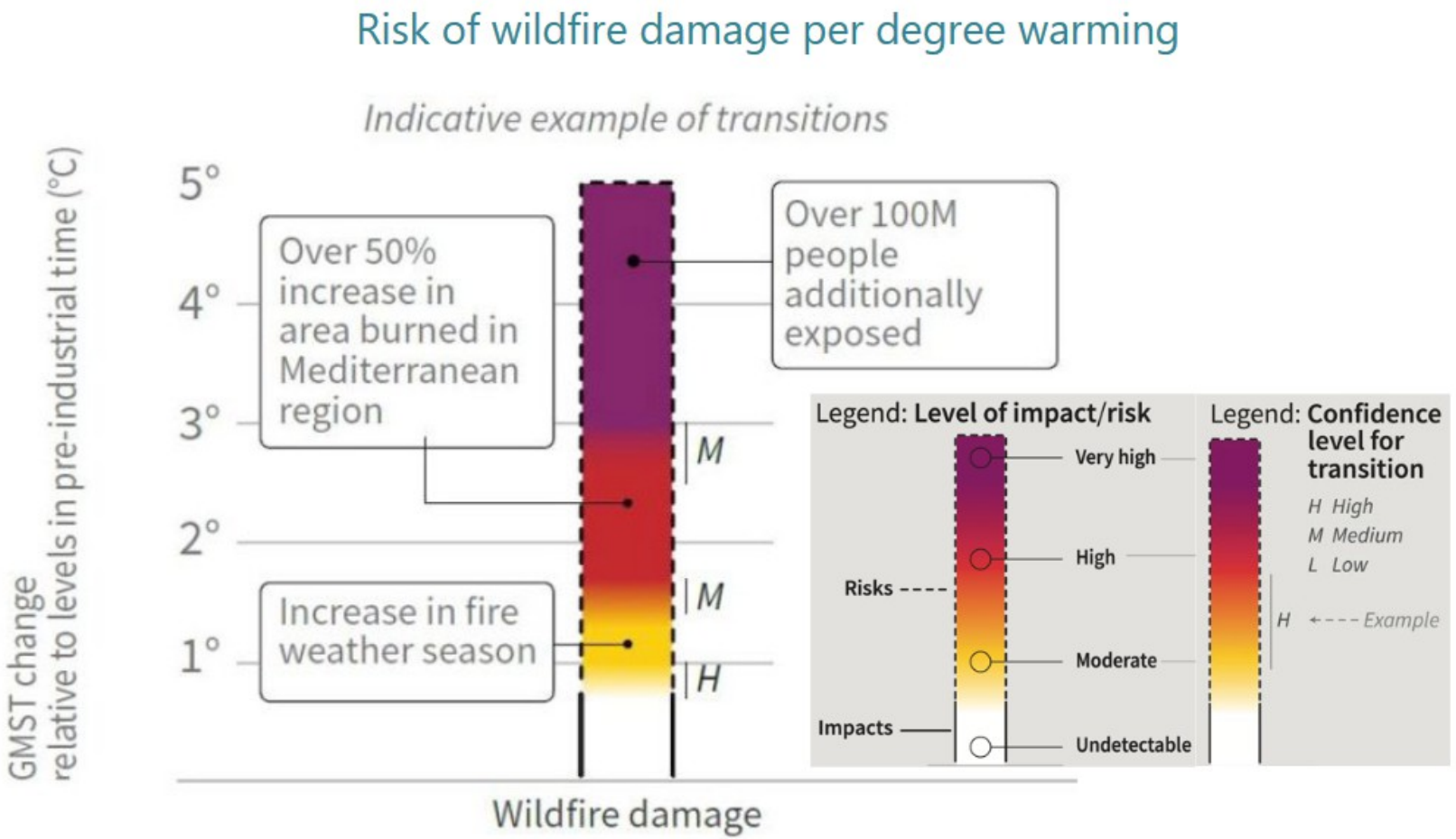

Figure 9: "Burning embers" showing the risk of wildfire damage in relation to global mean surface temperature change. The colour bar represents level of impact/risk while the confidence level for transition is given with the letter H for high and M for medium. Text boxes explain example impacts for the different levels of impact.[62]

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INCREASED PESTS AND INSECTS

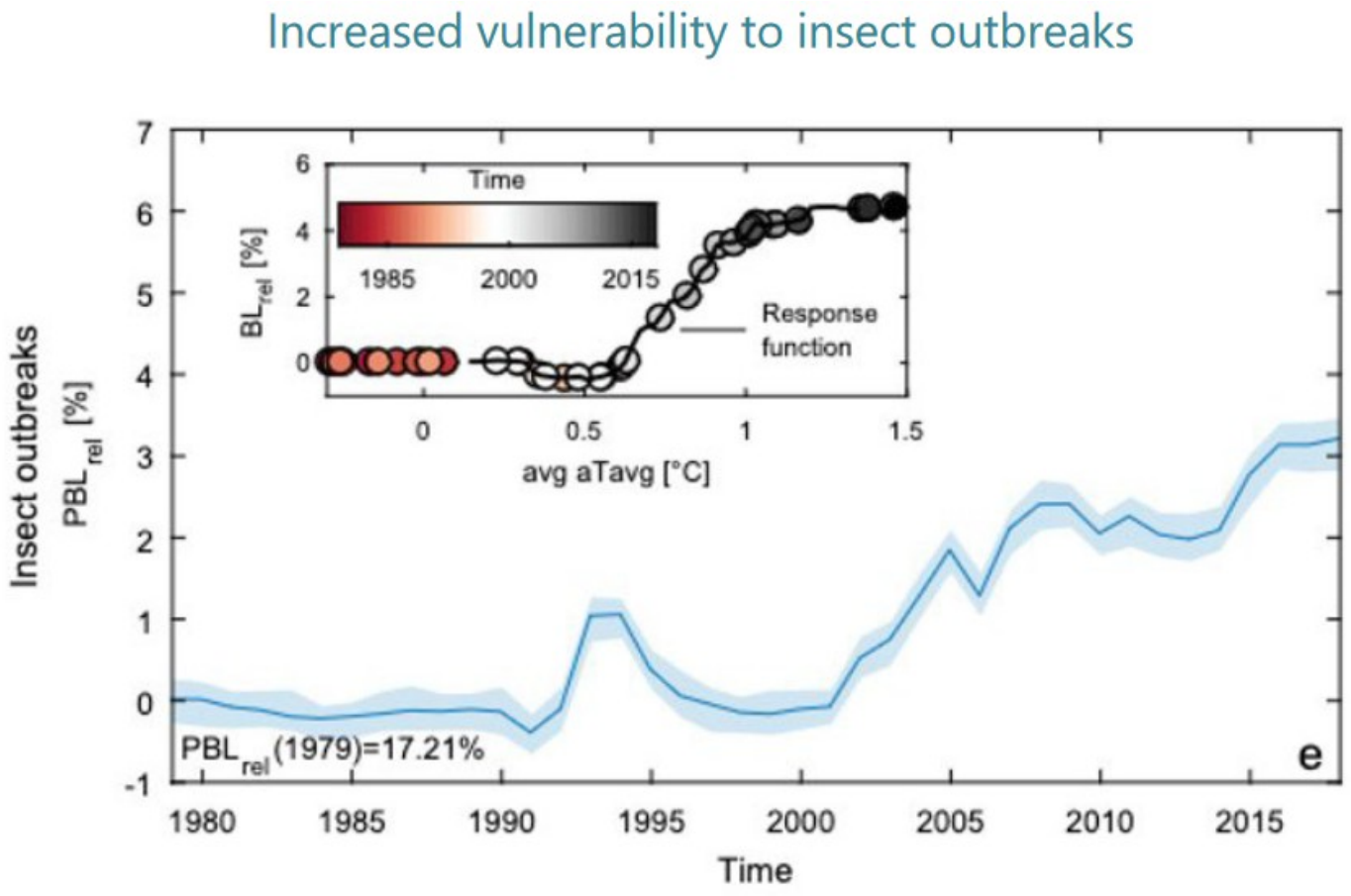
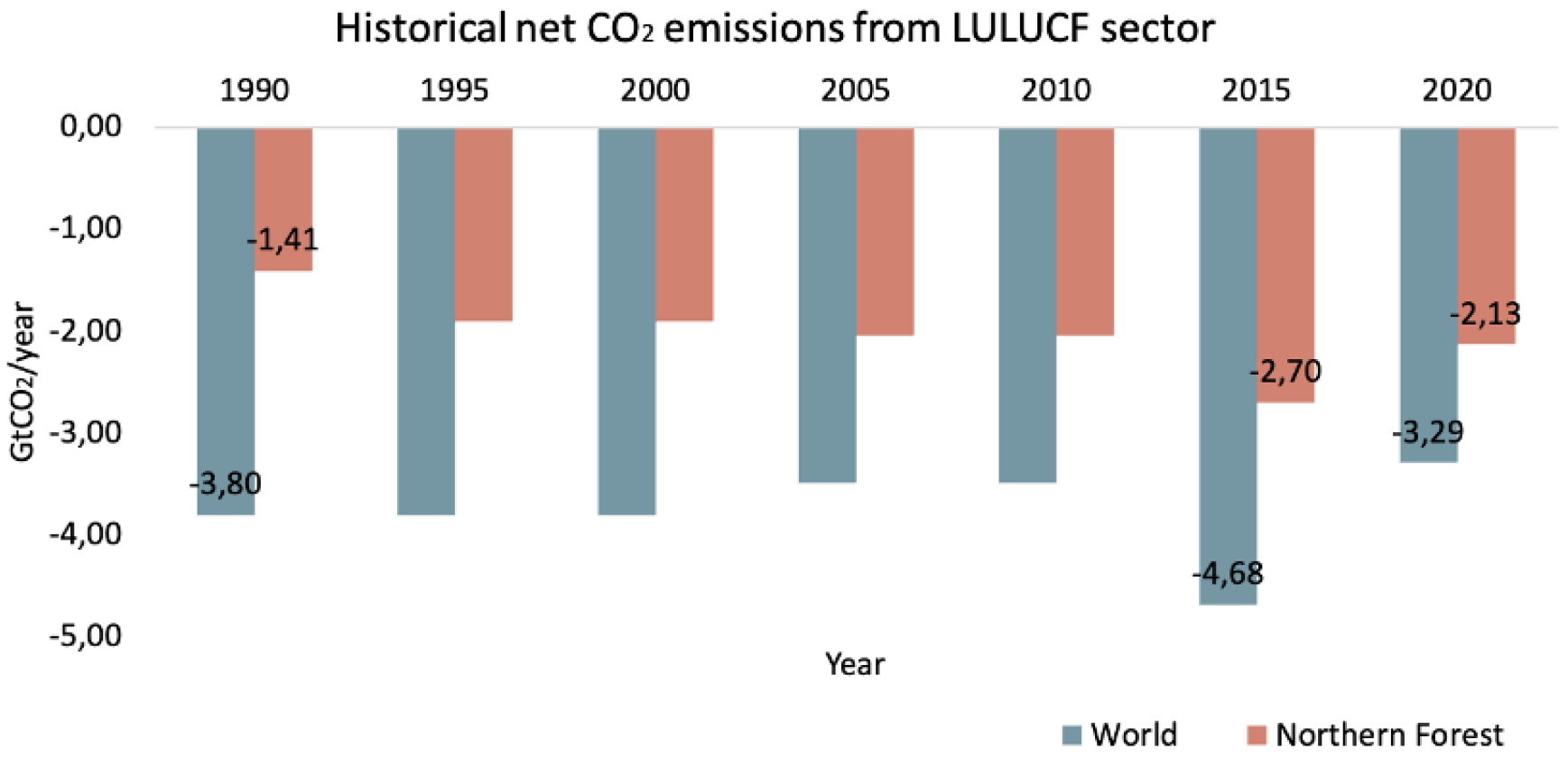


Figure 11: Insect outbreaks over time and the response function of insect pests to temperature anomalies in Europe. PBL and BL describe the potential biomass loss and biomass loss respectively and are measures for vulnerability.[70]

CARBON SINKS GOING DOWN



Source: Climate Analytics based on FAO data

UNFCCC'S FIRST GLOBAL STOCKTAKE

ADVANCE VERSION

United Nations

Framework Convention on Climate Change

FCCC/PA/CMA/2023/16/Add.1

Distr.: General
15 March 2024

Original: English

Conference of the Parties serving as the meeting of the Parties to the Paris Agreement

Report of the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement on its fifth session, held in the United Arab Emirates from 30 November to 13 December 2023

Addendum

Part two: Action taken by the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement at its fifth session

Contents

Decisions adopted by the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement

"28.(d) Calls on Parties to contribute to (..) **transitioning away from fossil fuels**"

33. "Further emphasizes the importance of (..) enhanced efforts towards **halting and reversing deforestation and forest degradation by 2030**"

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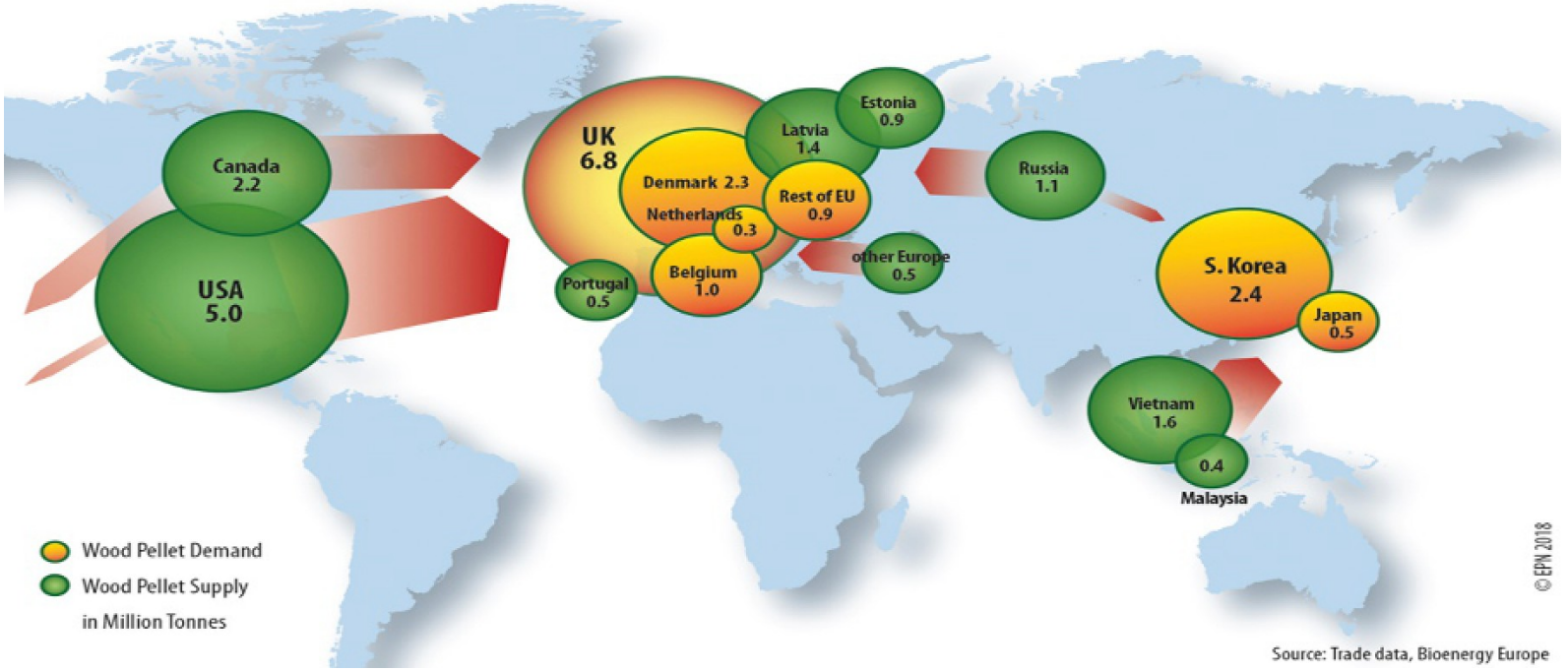
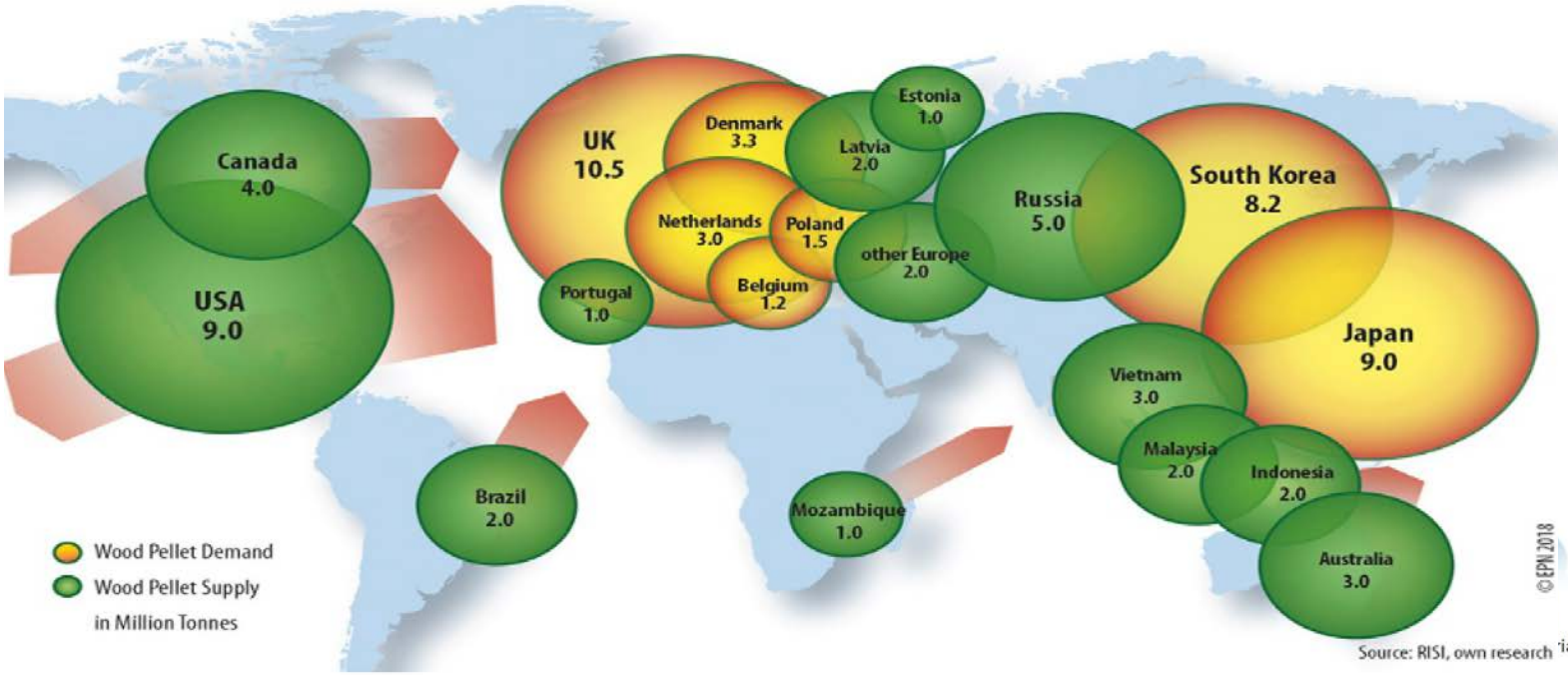
RISK OF INCREASING BIO-ENERGY PRODUCTION

Demand and Supply of Industrial Wood Pellets in 2017



Source: Trade data, Bioenergy Europe

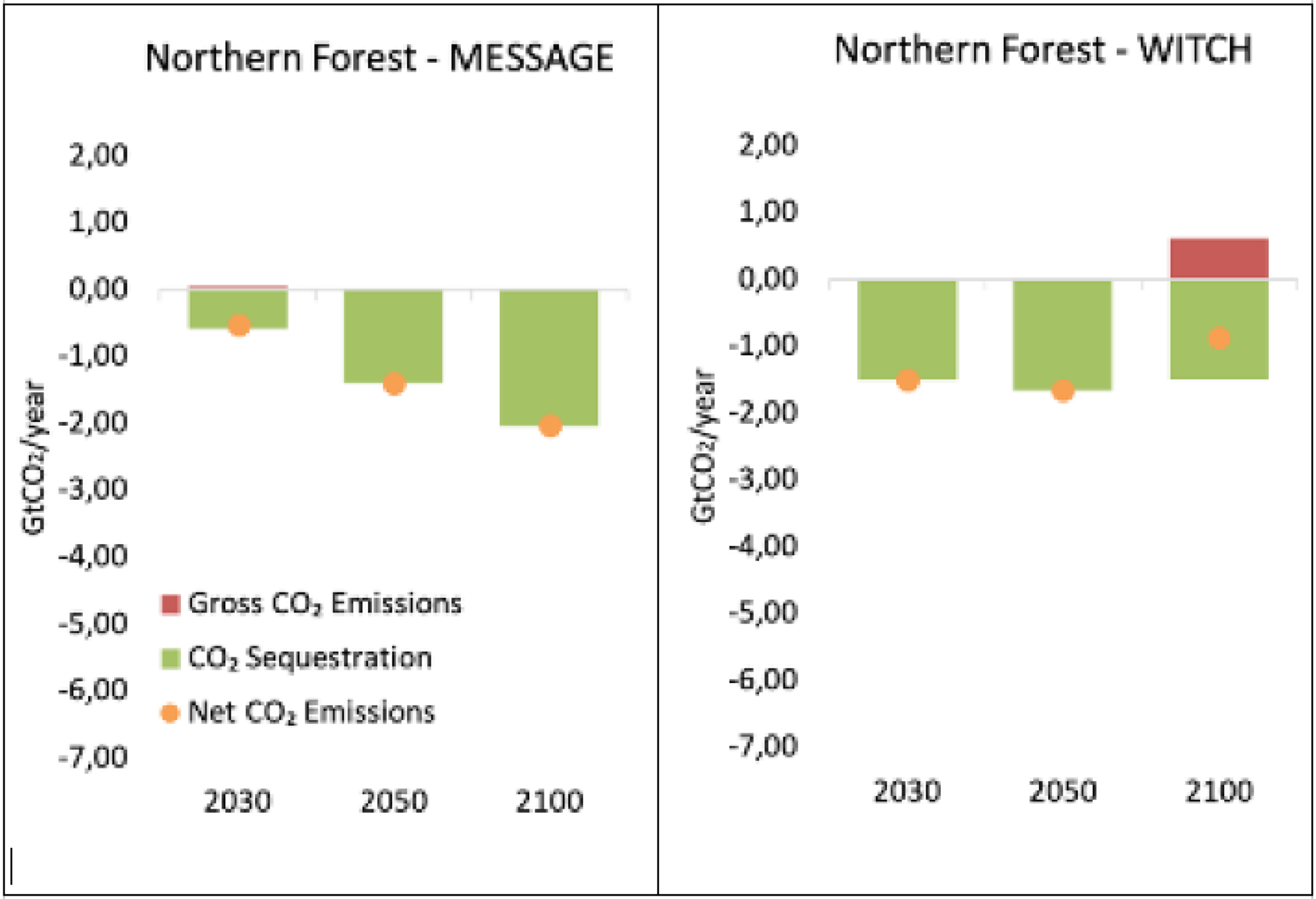
Demand and Supply of Industrial Wood Pellets in 2027



Source: RISI, own research

NORTHERN FOREST IN MITIGATION SCENARIOS

Modelled future CO_2 emissions pathways from LULUCF sector



Source: Climate Analytics

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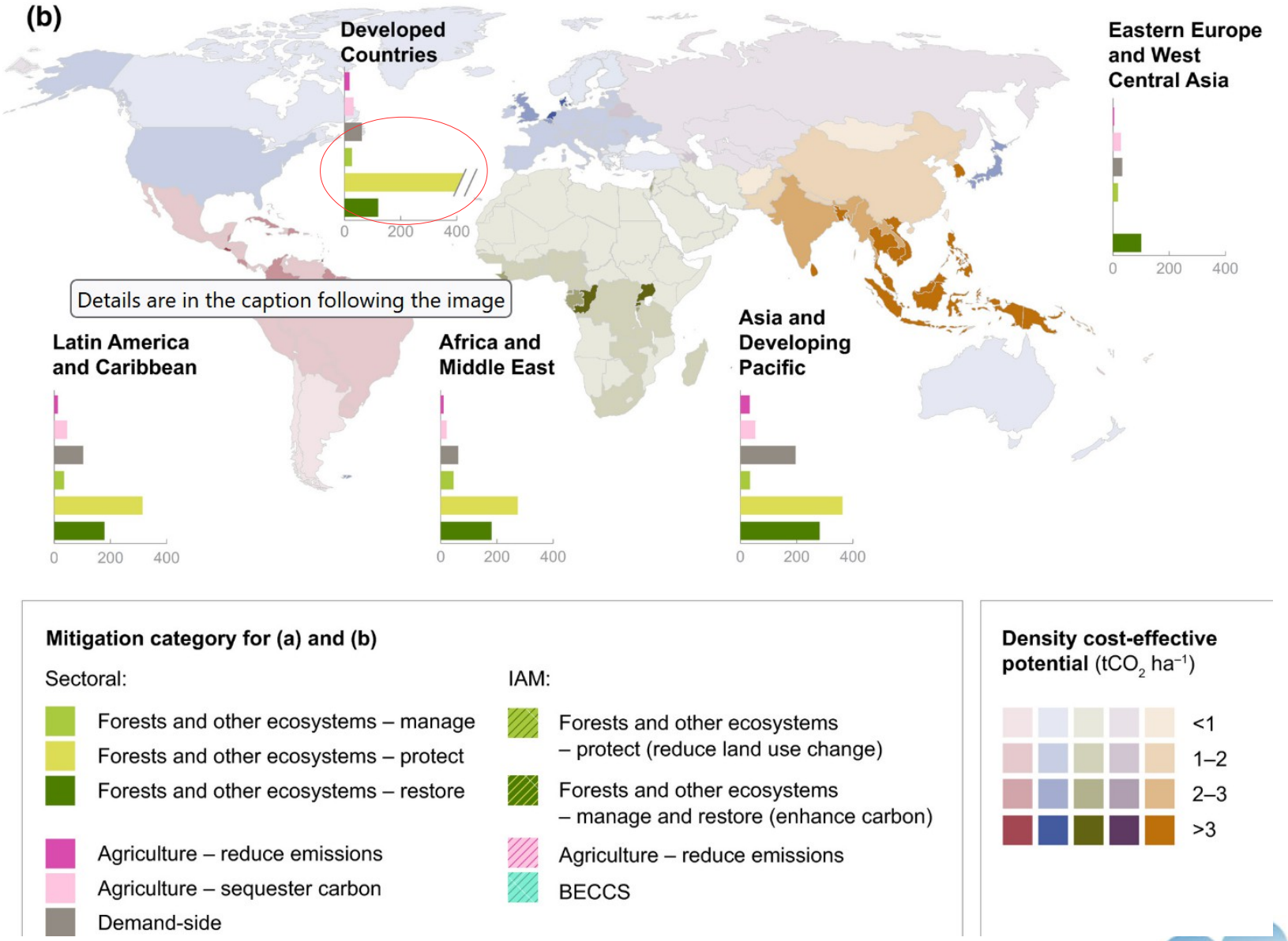
HUGE POTENTIAL IN PROTECTION AND RESTORATION

Regional map of land-based cost-effective mitigation potential density



Source: Roe et.al. Land-based measures to mitigate climate change (2021)

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SUGGESTIONS FOR COP29 (BAKU) AND COP30 (BELEM)

- Synergy (UNFCCC/CBD/UNFF);
- Operationalisation Article 5 (Paris Agreement);
- Forests and Climate Change Dialogue;
- Glasgow Declaration Accountability Framework.

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THANK YOU

more info:

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