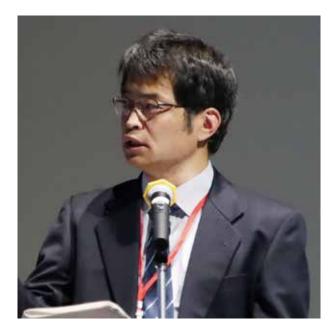
Development of Timber and Oil Palm Industries in Southeast Asia and International Policy for Tropical Forest Conservation

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Dr. SAMEJIMA Hiromitsu mainly conducted research on the sustainable management of tropical forests at Kyoto University after obtaining his Ph.D. in 2005. Since moving to IGES in 2015, he has been researching REDD+, illegal logging, and the deforestation risk caused by agricultural crops.

ABSTRACT

Southeast Asia is home to one of the three major tropical forests in the world, and the region boasts valuable biodiversity. However, these tropical ecosystems have faced degradation and decline mainly due to commercial timber production in the late 20th century and the expansion of oil palm cultivation in the 21st century.

The rapid increase in commercial timber production after World War II, particularly in the Philippines, Indonesia, and Malaysia, was primarily fueled by imports from Japan. Although selective logging methods were adopted, they often caused irreparable damage to forest ecosystems and local communities. This problem was further exacerbated by the rapid increase in illegal logging during the political and economic crisis era in Indonesia around 2000. In response, timber-importing countries, including Europe, the United States, and Japan, introduced policies restricting imports of illegally logged timber. At the same time, timber-producing countries also introduced measures such as timber legality assurance systems and mandatory forest certification. Meanwhile, in regions such as Vietnam and Java, smallholders have cultivated fast-growing trees, which have become an integral part of the timber supply chain.

In Malaysia and Indonesia, the expansion of oil palm cultivation has been a significant factor in deforestation in these decades, often resulting in land conflicts with local communities. It should be noted, however, that not all oil palm plantations were established by destroying natural forests, and many suffer from low productivity. In addition, an increasing number of small-scale farmers are turning to oil palm cultivation as their main source of livelihood. Along with cattle and soybean cultivation, oil palm is a significant contributor to deforestation and a primary target of the EU Deforestation Regulation (EUDR) introduced this year. Some Japanese companies have also voluntarily engaged in sustainable sourcing. Nevertheless, the due diligence requirements imposed by the EUDR and similar initiatives have been criticized for having a negative impact on small farmers with complex supply chains. Given this situation, stakeholders advocating sustainable sourcing in consuming countries should aim to create supply chains that not only promote due diligence but also contribute to the sustainable development of local communities in the producing countries.

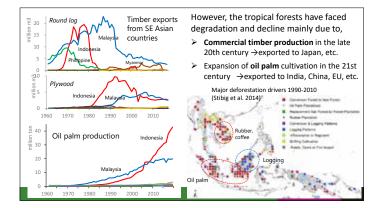
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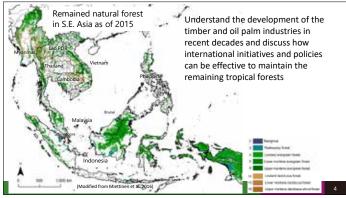
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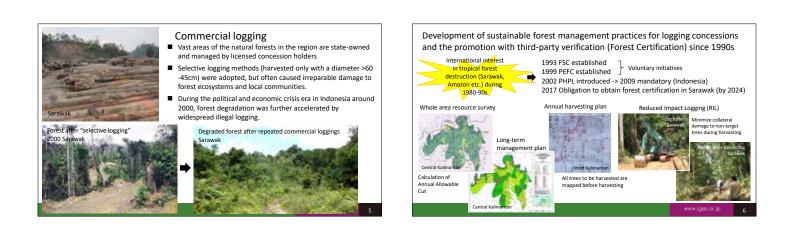
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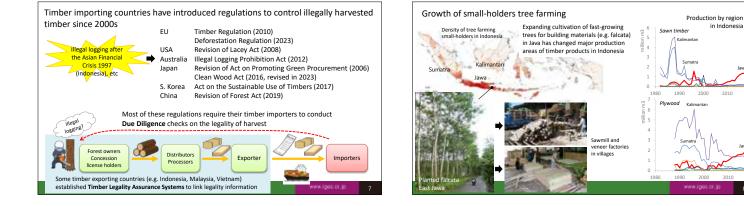


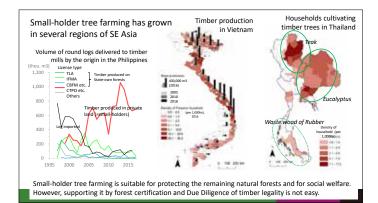




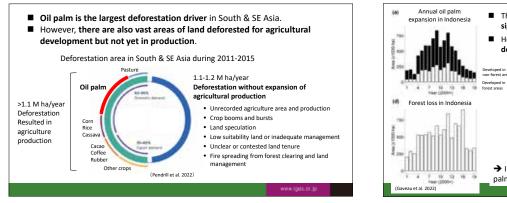












- I The expansion of oil palm has been Indonesia's most significant deforestation driver in the past 20+ years.
- However, the plantations were not always developed with deforestation.
 - One-third of the deforested area was converted into oil palm plantations (industrial plantations + small-holders)
 - The expansion and deforestation peaked in the late 2000s and early 2010s (more than 500,000 ha per year)
 - However, the area of new plantations developed from non-forests was larger than the area from forests through the time

→ Improving land use efficiency is important to increase oil palm production without deforestation

Expansion of oil palm farming by smallholders

- Oil palm cultivation started with industrial plantations and has caused negative impacts on local communities in various places in SE Asia
- However, small-holders started to cultivate oil palm by themselves

Drastic transition of major livelihood from land-rice farming (+ rubber and pepper) to oil palm farming in rural areas of Borneo









- Voluntary initiative by private companies in importing countries (e.g. using RSPO)
 - Governments pledged to end deforestation by 2030 ➤ 2014 New York Declaration on Forests
 - 2021 Glasgow Leaders' Declaration on Forests and Land Use

2023 EU Deforestation Regulation (EUDR)

- Prohibit to place six forest-risk commodities (cattle, cocoa, coffee, oil palm, soya, and wood) derived from illegal production and/or deforestation from 2021 onward from being placed on the EU market.
- Obligate all the importers to submit a Due Diligence Statement, including geolocation coordination of the production sites

Nevertheless, the DD requirements have been criticized that they could negatively impact the small-holders with complex supply chains

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Conclusion

- Timber and oil palm have been major deforestation drivers in SE Asia in these decades
 Timber
 - Sustainable forest management has been promoted to reduce the negative impacts of logging
 - Timber production by small-holders is partially replacing timber production from large companies concessions
 - Oil palm
 - $\succ\,$ Land use efficiency is important to enable palm oil production without deforestation.
 - Small-holder farming of oil palm can contribute to the well-being of the local communities
- Initiatives in consuming countries for forest conservation in the producing countries can only be effective by considering the sustainable development of the local communities.