THAILAND'S EXPERIENCE IN COMPILING SEEA ASSET ACCOUNTS

Regional Training Workshop on SEEA Asset Accounts for Sustainable Development Chiba, Japan During 16 - 19 June, 2025







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Current Status of SEEA Implementation in Thailand

ENVIRONMENTAL ACCOUNTS

SEEA Implementation in Thailand



that include natural resources and assessing the country's GDP Study a framework for environmental costs.

Study to develop statistics for System of Environmental-

Developing a SEEA Blue Economy Accounting Framework in Thailand's Economic Accounting for Agriculture, Forestry and Fisheries (SEEA-AFF).

Pilot study with UNESCAP in Sustainable Tourism in the Ocean Account on Andaman Tourism Development Area Development "Thailand Environmental Economic Accounting System (SEEA)
Practice Guideline" including water
account, material flow account

SEEA Ocean Account in Phang Nga Bay Area Natural Capital Accounting: NCA (Ecosystem account) in Krabi

SEEA land Account and Timber Account with ADB

SEEA Forest Account and Timber **Ecosystem Account in Khung** Account at national level and BangKachao and Khao Yai





Study of environment accounts



including the environmental

costs in agricultural sector.









A member of NSTDA

























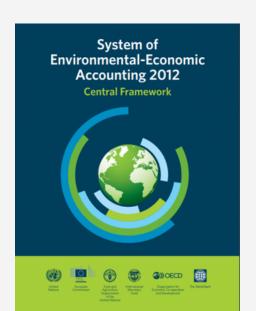






Current Status of SEEA Implementation in Thailand

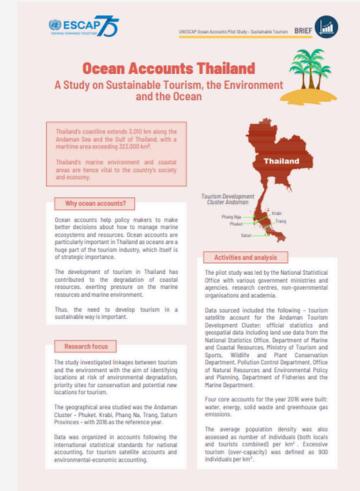
• Study on the feasibility and data readiness of Thailand for preparing SEEA, specifically for particular sectors such as agriculture, ocean resources, forestry and timber resources



2014: Developing a Framework for Assessing Gross Domestic Product Including Resource and Environmental Costs in the Agricultural Sector of Thailand

2018: Framework for Preparing the SEEA-Blue Economy Suitable for the Thai Context

2019: the Tourism Satellite Account-System of Environmental Economic Accounting (TSA-SEEA) in the Tourism Development Cluster Andaman (Phuket, Krabi Phang Nga, Trang, Satun province)





2022: Pilot Ocean Account for the Gulf of Phang Nga, Phuket, and Krabi

2023-2026: Integration of Natural Capital Accounting in Public and Private Sector Policy and

Decision-making for Sustainable Landscapes (Phang Nga province)

2025: Pilot Ecosystem Account for Khao Yai National Park

2025: Pilot Ecosystem Account in Khung BangKachao

Roles of Key Agencies in Compiling SEEA in Thailand



National Statistical Office (NSO)



Office of Natural Resources and Environmental Policy and Planning (ONEP)

- Development of Tools and Mechanisms:
 - Developing manuals and guidelines for SEEA implementation tailored to the Thai context
 - Applying FDES in the compilation of accounts
- Focal Point:

Serving as the central coordinating body and providing technical advice to other agencies involved in SEEA.

- Implementation:
 - Development and compilation of environmental-economic accounts, as well as ecosystem accounts
 - Currently in the initial phase
 - 2025: Compiling Forestry and Timber
 Resources Accounts as a national pilot

Data Sources for Asset Accounts

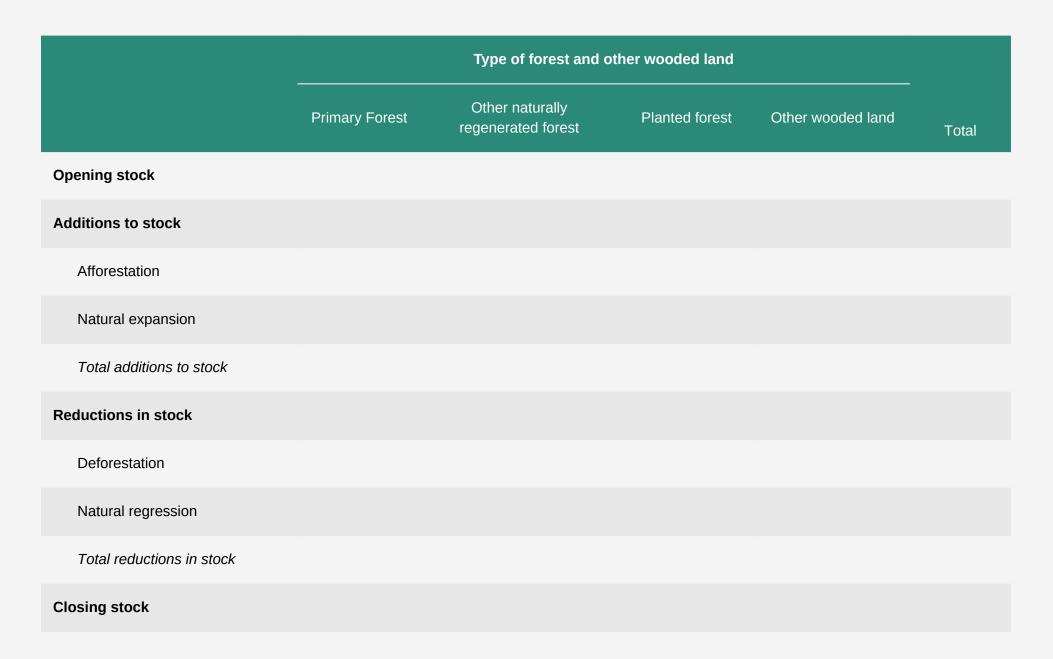
Asset Account for Forestry and Timber Resource

- Data Source: Primarily secondary data
- Data Providers: Agencies involved in forest resource management
- Examples of Supporting Agencies
 - Royal Forest Department
 - Department of National Parks, Wildlife and Plant Conservation
 - Forest Industry Organization
 - Department of Marine and Coastal Resources
 - Land Development Department
 - Rubber Authority of Thailand
 - The Federation of Thai Industries
 - Customs Department
- Timeframe: 2013-2023 was selected due to the most complete data availability

Physical Asset Account for Forestry: Methodology

• Approach: Utilizing official statistics and reports from agencies legally mandated to oversee each forest type to minimize discrepancies

- Forest area classified by type
- Changes in forest area (increases, decreases due to encroachment, reforestation, land-use change)



Physical Asset Account for Timber Resource: Focus

- To account for timber stock used for economic activities, enabling estimation of timber quantity and value over
- Impact of 1989 Logging Ban: Timber resource for industry now solely from Planted forests
- Selected Economic Tree Species:
 - **Teak**: Represents slow-growing, high-value timber for diverse industries used used in various industries.
 - Para Rubberwood: High volume timber for wood product industries (furniture, wood processing, panels, etc.)
 - Eucalyptus: Widely planted and utilized, especially in paper and pulp industries.

Physical Asset Account for Timber Resource: Compilation

Recording timber volume from planted forest areas based on annual assessments.



Applications of SEEA Asset Accounts

Asset Account for Forestry and Timber Resource

- National Strategy Monitoring: Track progress towards the 20-Year National Strategy (2018-2037) target of 55% green area by 2037 (35% natural forest, 15% economic forest, 5% urban green space)
- Forest Management & Climate Action: Monitor changes in forest area by ecosystem type to inform restoration and management plans, contributing to Thailand's GHG reduction target of 109.2 million tons of CO₂ equivalent by 2035
- Economic Timber Strategy: Develop a "timber economic matrix" (supply-demand) to support the development of the timber industry and strategies for promoting timber planting and utilization, especially for Teak

Challenges and Solutions



- Forest area data is fragmented across multiple agencies and lacks uniformity
- Systematic collection of forest area changes is insufficient, hindering the identification of key influencing factors
- Timber volume from economic planted forests is not systematically collected.
- Limitations in accessing certain types of data.



• Forest area definitions are inconsistent among agencies, leading to reports only on areas under their specific legal mandates



- Data collection methodologies and baseline years vary among agencies due to budget and personnel constraints
- Differences exist in units of measurement and data collection methods across agencies

Challenges and Solutions

• Strategies Implemented:

- Organizing focus group meetings with relevant agencies to discuss the accounting framework, definitions, data classifications, reference periods, data limitations, and to solicit additional data support
- Developing a data management system for forest-related resources to support SEEA implementation, considering data governance, security, and privacy, aligning with stakeholder roles and promoting efficient and secure data management

Note: These are ongoing efforts, and some challenges still require resolution

Thank you for your attention

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