

System of Environmental Economic Accounting

SEEA ECOSYSTEM ACCOUNTING AND ITS **IMPLEMENTATION STRATEGY**

United Nations Statistics Division

Advancing Earth Observation for Ecosystem Accounting, 28 November – 1 December 2022

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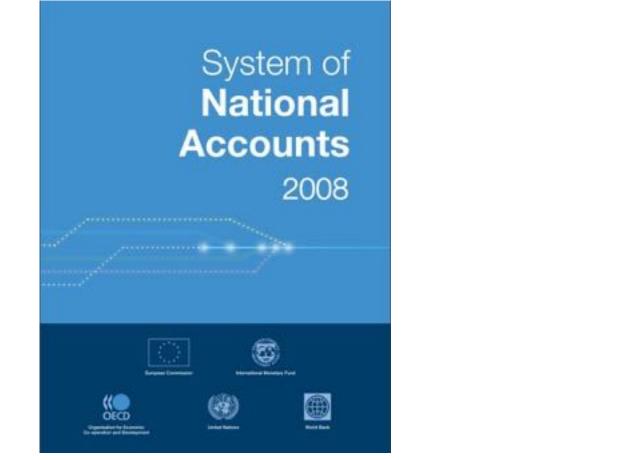
The Need for Natural Capital Accounting

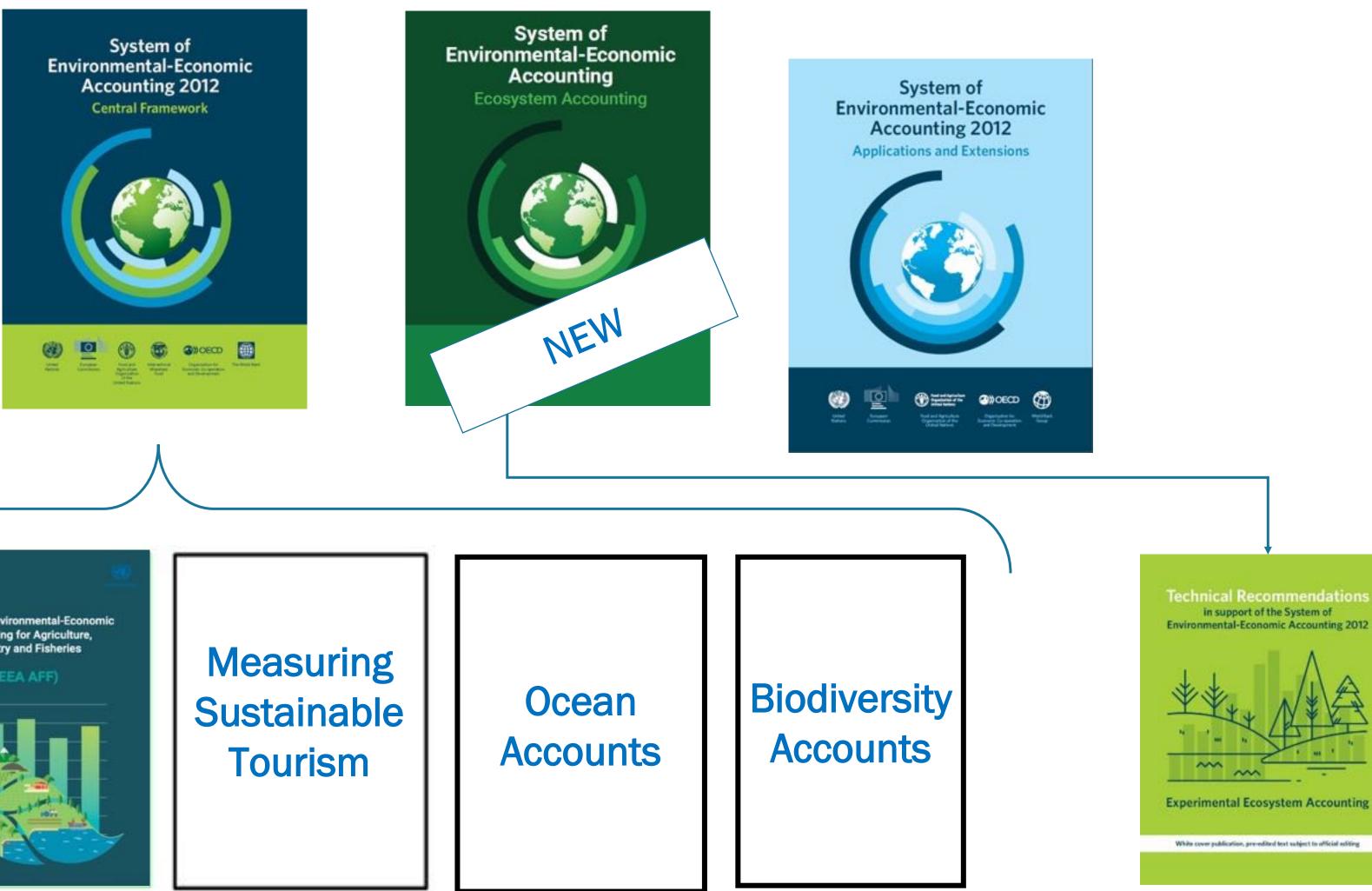
- Nature and the services it provides support almost every aspect of human well-being
- But headline indicators like GDP, the unemployment ulletrate and inflation do not capture the full economic contributions of nature
- Traditional accounts don't help us understand how ulletthe depletion of natural resources and degradation of the environment affect the economy and wellbeing
- The System of Environmental Economic Accounts ullet(SEEA) fills that gap.
- SEEA integrates information on the economy and the ulletenvironment showing their interrelationship complementing the System of National Accounts





SNA and SEEA – statistical standards



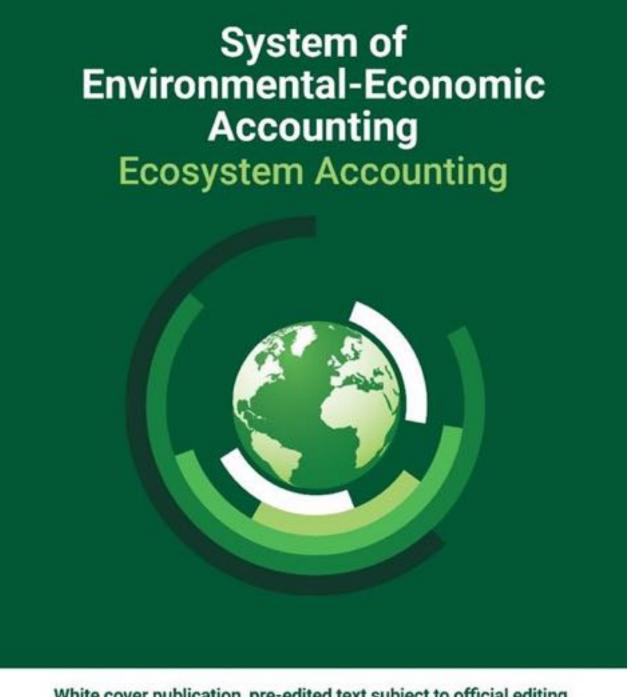








The SEEA Ecosystem Accounting



White cover publication, pre-edited text subject to official editing

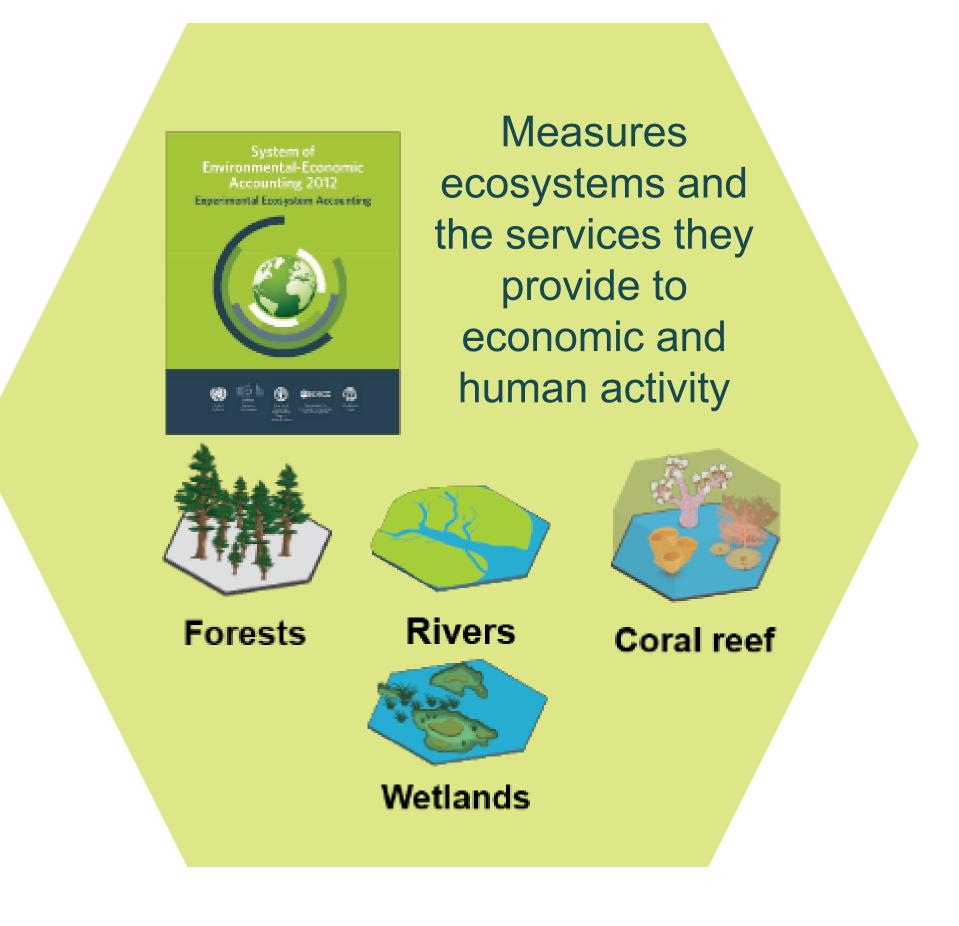
- Agreed to remove "Experimental" from the times -
- Adopted Chapters 1-7 describing the framework and the physical flow accounts as a statistical standard
- Recognized Chapters 8-11 as internationally recognized -Statistical principles and recommendations for the valuation of ecosystem services and assets
- Noted Chapters 12-14 describing applications and extensions —
- Encouraged countries to implement the SEEA EA
- In March 2022:
- Adopted the implementation strategy of the SEEA EA



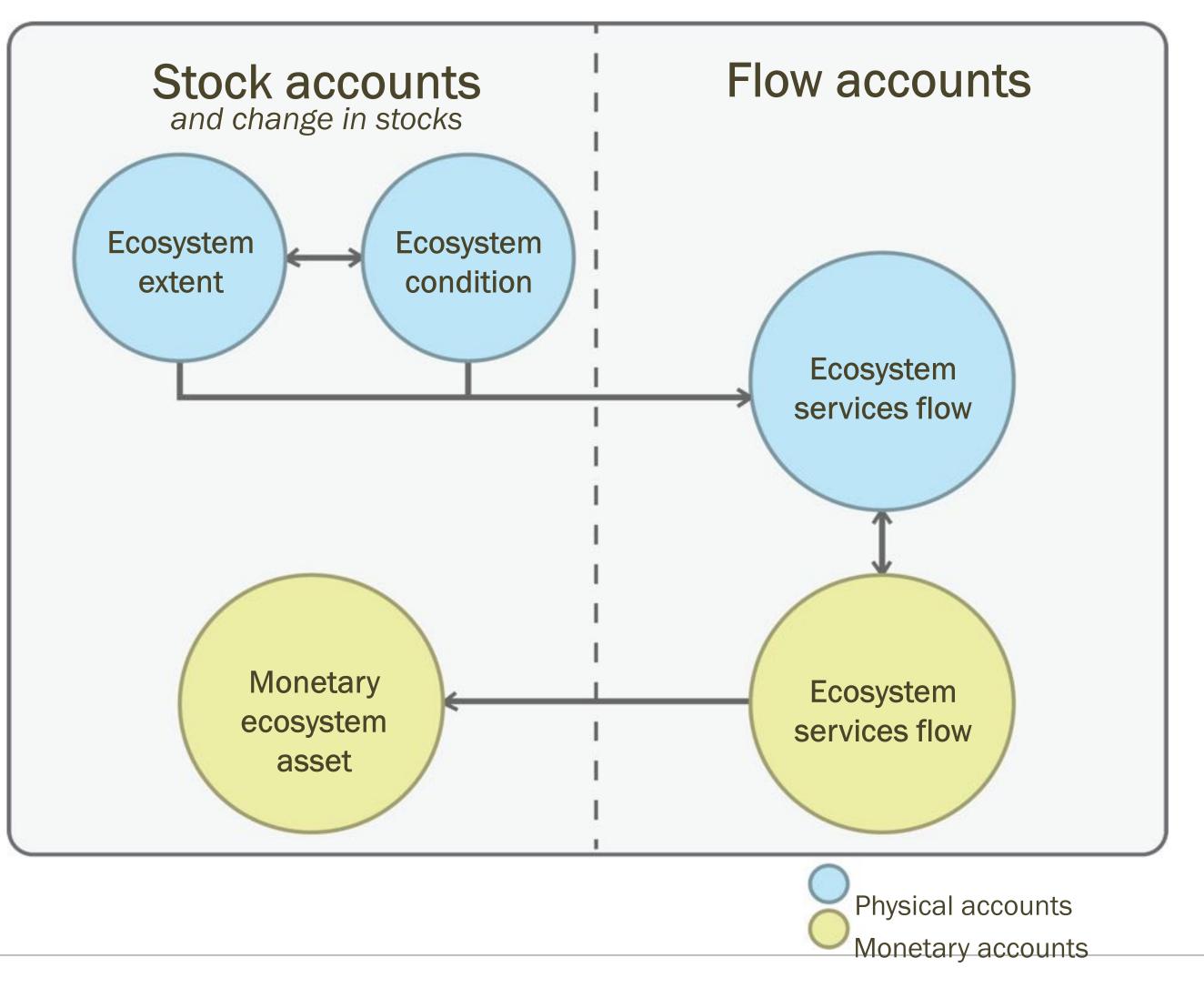
The UN Statistical Commission in March 2021:

Two sides of the SEEA





SEEA Ecosystem Accounting - Core Accounts





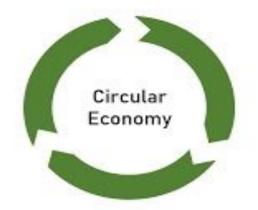
The SEEA supports multiple ongoing initiatives







2021 United Nations Decade of Ocean Science 2030 for Sustainable Development



Circular economy

Beyond GDP



Growing interest in Natural Capital Accounting



"a historic step towards" transforming the way how we view and value nature" – António Guterres, UN Secretary General

"this new statistical framework moves beyond **GDP** and takes better account of biodiversity and ecosystems in national economic planning" – Frans *Timmermans, Vice-President of the European* Commission

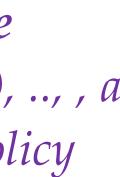
"Committed to further mainstreaming biodiversity in decision-making, we will ensure implementation of the System of Environmental Economic Accounting (SEEA), ..., a regular and institutionalised compilation of accounts, will use related indicators for policy and decision-making, and provide international support for further development and implementation of SEEA-EA" - The G7 climate, energy and environment ministers – Communique 27 May 2022



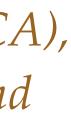


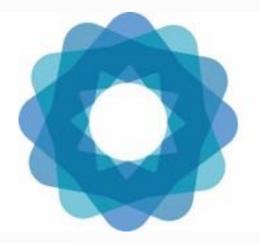


MoFs can manage nature-related risk developing and applying valuation, metrics, and decision support tools (e.g., through implementing or supporting natural capital accounting (NCA), developing alternatives to gross domestic product (GDP), and developing nature loss scenarios









System of Environmental Economic Accounting

Global implementation strategy for SEEA





SEEA EA Global Implementation Strategy

- **Overall objective:** scale up the uptake of the SEEA Ecosystem Accounting
- **Target:** at least 60 countries implement at least one account of the SEEA EA by 2025
- **Specific objectives:**
- Regular production of selected ecosystem accounts, starting from ecosystem extent accounts to ecosystem condition and ecosystem services in physical and monetary terms;
- Mainstreaming biodiversity and ecosystems into (sub)national policies;







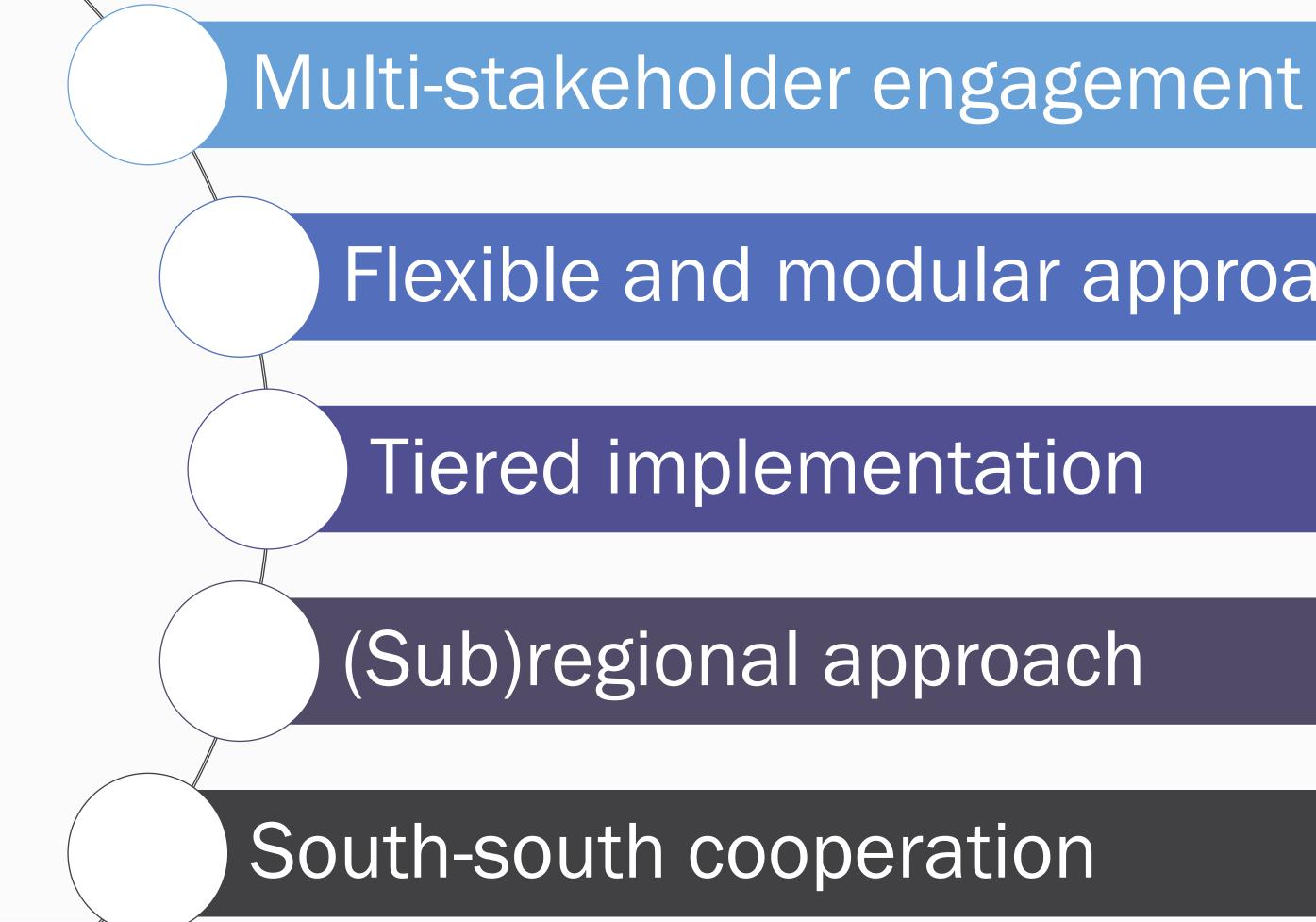








Approach and main principles





Flexible and modular approach

Activities in support of the implementation Capacity building Hands-on in country **Communication and** support advocacy **Development of** Data and tools guidelines and material to support compilation Strengthening



United Nations

GUIDELINES ON BIOPHYSICAL MODELLING FOR ECOSYSTEM ACCOUNTING



System of Environmental Economic Accounting



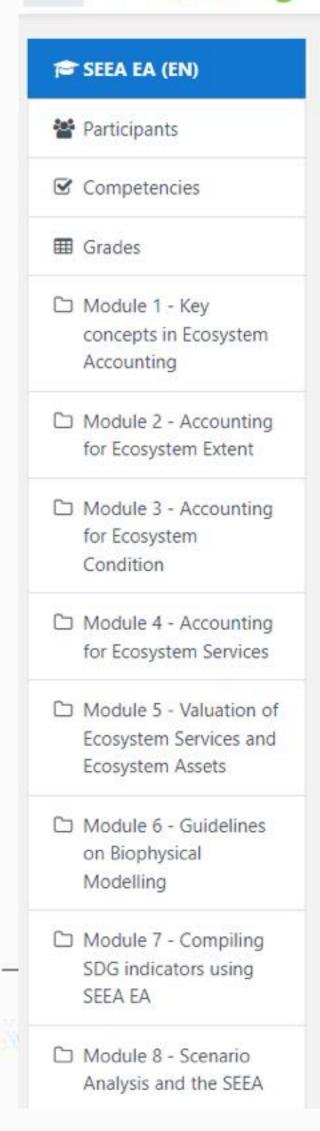
MONETARY VALUATION **OF ECOSYSTEM** SERVICES AND **ASSETS FOR** ECOSYSTEM ACCOUNTING Interim version

collaboration



E-learning course on SEEA EA - available at seea.un.org

■ UNBigDataLearning UNGP LMS English (en) ▼



SEEA - Ecosystem Accounting (English) - NEW

Home / My courses / SEEA EA (EN)

Overview

This e-Learning course introduces the System of Environmental Economic Accounting--Ecosystem Accounting), the international statistical standard for organizing data about ecosystems, measuring ecosystem services, tracking changes in ecosystem assets, and linking this information to economic and other human activity. This is a new course as of May 2022, following the SEEA Ecosystem Accounting standard that was adopted by the UN Statistical Commission in March 2021.

Learning objectives: This course provides an overview of ecosystem accounting including details on, among others, spatial units, ecosystem condition, ecosystem services, valuation of ecosystem services, scenario analysis and compilation of indicators. By the end of the course, participants will be expected to:

1. Have a general understanding of the accounts presented in the SEEA EA and their relevance in policy;

Understand how spatial units of ecosystem types can be delineated and are used in accounting for compiling ecosystem extent accounts;

3. Understand the concepts and the general approach for the measurement of ecosystem condition and ecosystem services;

4. Describe how biophysical modelling can be applied for ecosystem accounting; and

5. Describe the purpose and approaches to the valuation of ecosystem services and ecosystem assets.

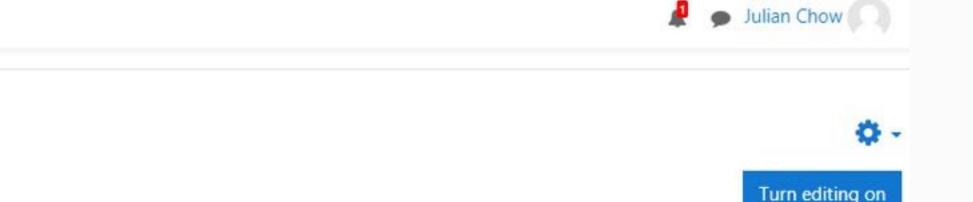
Course length: The course is expected to take about 20 hours over the 8 modules. It is recommended that the learner follows one module per week, over an 8 week period.

Module 1 - Key concepts in Ecosystem Accounting

Module 1

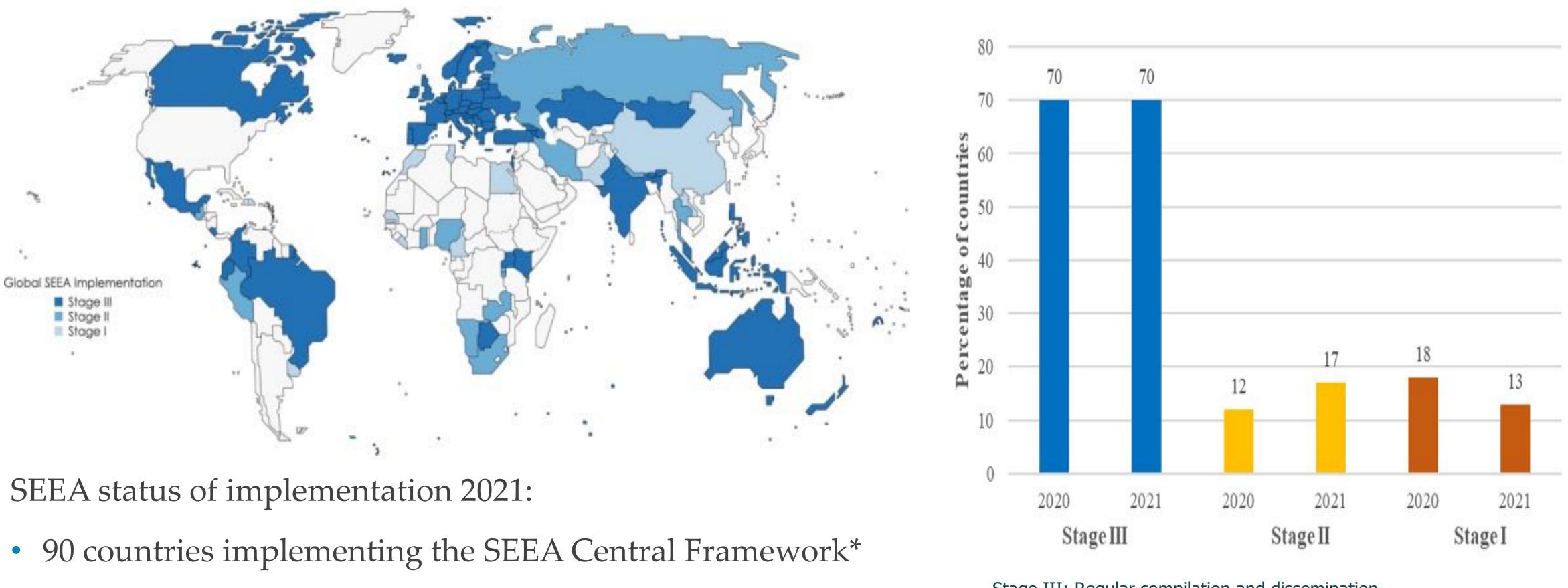
Module 2 - Accounting for Ecosystem Extent

Module 2



- Target public: Target participants are staff of national statistical offices, line ministries, other agencies working on issues related to the environment and those interested in learning more about the SEEA Ecosystem Accounting.

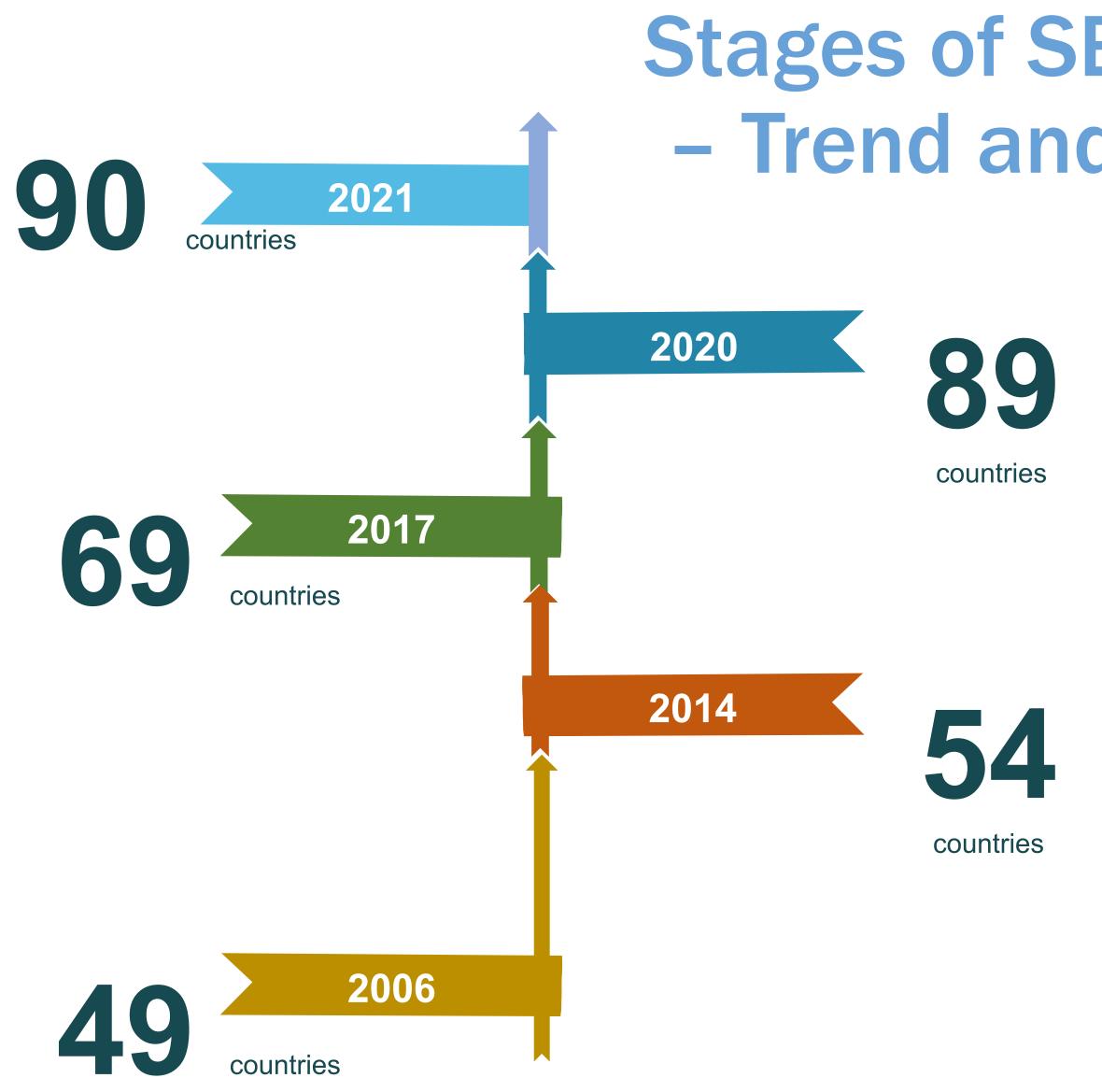
SEEA Implementation



- 37 countries compiling SEEA Ecosystem Accounts









* Since the 2021 Global Assessment was conducted and the report prepared for the 53rd Session of the UN Statistical Commission, the count of countries implementing the SEEA has increased to 90, with the addition of Uruguay. To see country-by-country detailed results of implementation, please see here: https://seea.un.org/content/2021- global-assessment-results.

Stages of SEEA Implementation - Trend and geographical breakdowns

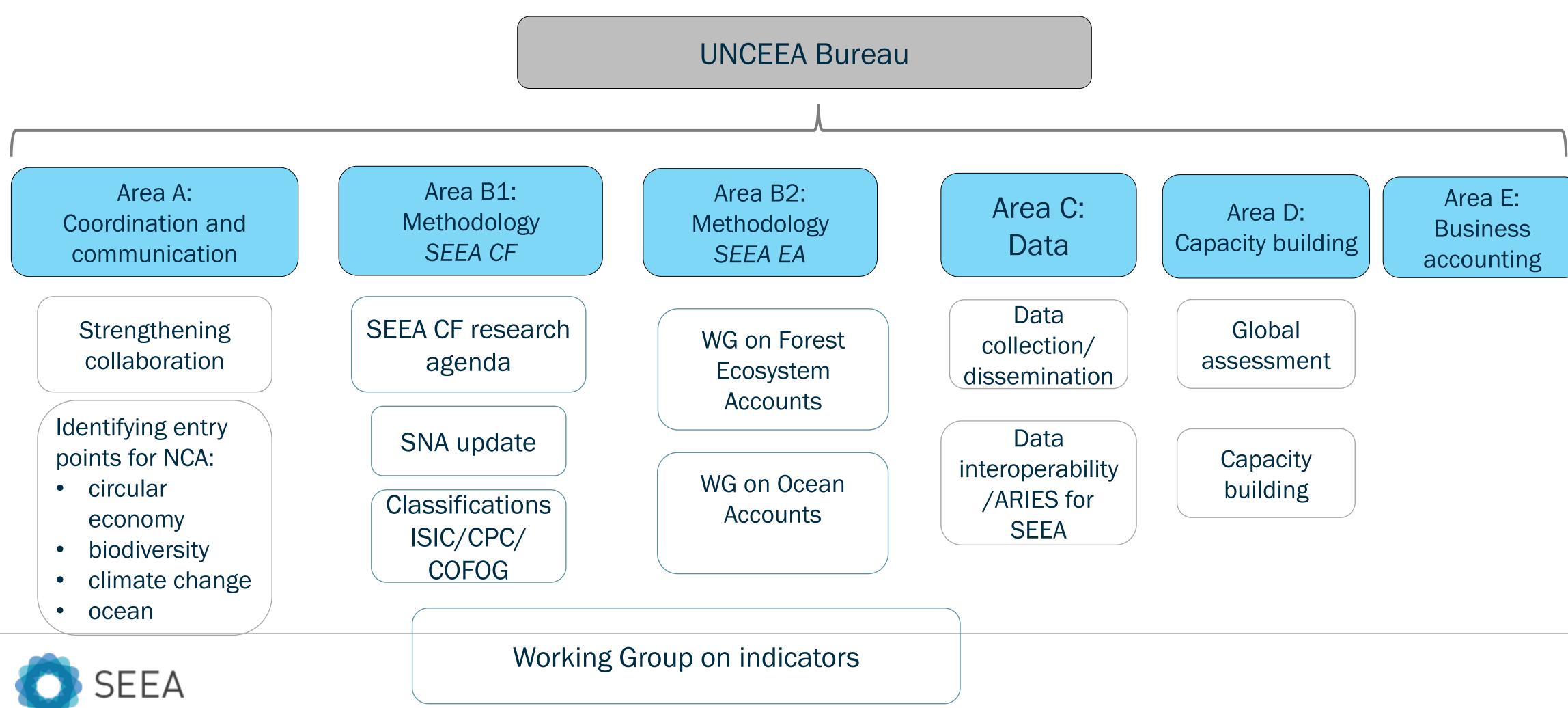
	Number of countries that compiled at least one account in the past five years (1)	Stage of implementation					
		Regular compilation and dissemination (Stage III)		Dissemination (Stage II)		Compilation (Stage I)	
		Number of countries (2)	Percenta ge of countries (2÷1)	Number of countries (3)	Percenta ge of countries (3÷1)	Number of countries (4)	Pe. coi
All countries	89	62	70%	15	17%	12	
By geographical regi	on:						
Africa	17	4	24%	7	41%	6	
Central, Eastern, Southern and South-Eastern							
Asia	14	7	50%	3	21%	4	
<i>Europe and</i> <i>Northern America</i>	38	36	95%	1	3%	1	
Latin America and Caribbean	8	5	63%	2	25%	1	
Oceania	5	4	80%	1	20%	0	
Western Asia	7	6	86%	1	14%	0	





SEEA - Governance mechanism





UN Committee of Expert on Environmental Economic Accounting (UNCEEA)

Why SEEA?

- Makes nature count within economic planning and decisionmaking
- Develops a common language among disciplines that decision makers can relate to
- comparable statistics
- SEEA catalyzes collaboration due its multi-disciplinary nature line ministries, businesses, etc
- Provides framework for deriving indicators to support various

climate change, green economy SEEA



Standardization is important in order to obtain high-quality, and

between different stakeholders--statistical office and universities,

monitoring and reporting frameworks such as post-2020 GBF, SDGs,

THANK YOU seea@un.org



