

Overview on SEEA-related activities of International Organisations (focus on UNECE region)

Joint OECD/UNECE Seminar on SEEA Implementation
Geneva, 20-21 February 2019



Organisations contributing to this presentation

- EEA
- Eurostat
- FAO
- ILO
- OECD
- UNDP
- UNDP
- UNECE
- UNEP
- UNSD
- World Bank

European Environment Agency, ENI SEIS II East Project

- **A regional project** to support EU policies and external policy framework (Eastern Partnership) with a **regular reporting on environment in**

Armenia - Azerbaijan - Belarus - Georgia - Moldova - Ukraine



EEA and ENI SEIS II East project coverage

- EEA member countries
- EEA cooperating countries
- ENI SEIS II East

The map does not imply any opinion from EEA concerning the legal status of any country or territory, its area of authority or the delineation of its frontiers and boundaries.

* Collaboration is temporally suspended

- A contribution to the pan-European assessment process
- **Capacity building activities** and **technical assistance** via sharing European Environment Agency knowledge and EU best practices
- Implemented by the European Environment Agency and funded by the European Union
- 1st Regional Project Steering Committee, identified **environmental accounting** highly relevant and requested capacity building in this domain in November 2016 .

European Environment Agency, ENI SEIS II East project

Institutional and methodological capacity development

- **Analysis of the state of play** to structure capacity building: interviews, report, road map
 - *May & September 2017*
 - *February & May 2019*
- **Vocational trainings on the SEEA** (September 2017, January 2018 with UNECE, 2019..)
- **Vocational trainings on data** on land, water, biodiversity, and air for SEEA compilation (2018, 2019..)

Eurostat

- **Six mandatory SEEA data collections in EU and other European countries**
 - air emissions, environmental taxes, material flows, environmental protection (EPEA), green growth & jobs (EGSS), physical energy flow accounts
- **Two voluntary data collections**
 - Forest accounts, environmental subsidies and similar transfers
- **Pilot project on ecosystem accounts (INCA) by 2020**
- **European strategy for environmental accounts 2019-2023**
- **Selected activities**
 - Develop methodology (integrated framework, classifications environmental activities, allocation of emissions by ISIC, footprints)
 - Handbooks and guidelines updated frequently. Upcoming: physical energy flow accounts
 - Training courses (4 courses per year, rotating)
 - Tools to countries e.g. compile energy accounts from energy statistics
 - Co-finance pilot studies and capacity building: EU, EFTA, IPA

FAO (1/3)

- **Methodological work:**

- **SEEA for Agriculture, Forestry and Fisheries (SEEA AFF)**
- Endorsement by UNCEEA in June 2016 as internationally agreed methodological document in support of the SEEA CF
- SEEA AFF air emissions account revised
- SEEA AFF water account improved
- SEEA AFF White Cover Published 2018

- **Global Data Collection:**

- FAO Land Use, Irrigation and Ag Practices Questionnaire

FAO (2/3)

GLOBAL SEEA-compliant databases

FAOSTAT Land Use : 1961 - 2016 (based on data collection)

<http://www.fao.org/faostat/en/#data/RL>

FAOSTAT Land Cover: 1992 - 2015 (based on geospatial data)

<http://www.fao.org/faostat/en/#data/LC>

Upcoming: **Land Cover Change** (suitable for SEEA land cover accounting)

FAO (3/3)

Capacity Development activities

2-5 July 2018, Pretoria South Africa: Training on Compilation and Application of Environmental Extended Supply and Use Tables jointly with UNECA

<http://www.fao.org/economic/ess/ess-events/seeaaffpretoria2018/en/>

Upcoming country work:

- **Morocco**
- **Senegal**
- **Cameroon**



Institutional Linkages and arrangements

ILO



• Objective:

- Assessing Green Jobs impact of policies,
- Supporting policy making for identify job creation and destruction, work quality, occupations and skill needs.

- Framework:

- *Green jobs = decent jobs in the environmental sector* *

-> This implies applying SEEA/EGSS guidelines + assessing the quality of jobs according to some decent work indicator.



* *Guidelines for the statistical definition and measurement of employment in environmental sector and green jobs*, adopted by the 19th International Conference of labour Statisticians, Oct.2013

ILO



Integrated policy and technical assistance approach:

- Demand driven process: established policy and analytical objectives with Ministry of Finance, Economy, or Planning.
- Support to NSO: capacity building for *production and integration of data*
- Support to Government and academia: for *use of data* and policy analysis -
> ensuring buy-in, promoting sustainability of the project.

Integrated data framework:

- Integrating SEEA with other sources to produce analytical data frameworks for policy analysis such IOT/SAM and jobs breakdowns.

Country examples:

- Earlier green job studies (since 2010) with RM and EP: China, Indonesia, India, Brazil, Mauritius, Tunisia, Uruguay and Philippines.
- Using SEEA -> Zambia (green SUT/IOT/SAM) and ongoing: Barbados, Kyrgyzstan, Guyana.

OECD

- SEEA Implementation to support the OECD Green Growth Strategy, feed into structural policy analysis, and contribute to the development of global SEEA databases at the UN level.
- **Recent work on SEEA-CF implementation:**
 - **Air Emission Accounts:** Methodology to estimate CO₂, CH₄ and N₂O emission accounts for countries that do not compile these SEEA accounts but provide detailed UNFCCC inventories. Collection of existing SEEA air emission accounts.
See [Working Paper](#) and [Database](#).
 - **Mineral and Energy Resource Accounts:** Technical guidelines to help implement the SEEA-CF. Collection of internationally comparable data on stocks and flows.
See [Working Paper](#) and [Database](#).
 - **Environmentally-Related Tax Revenue (ERTR) Accounts:** OECD methodological guidelines complementing the European guidelines: more emphasis on some taxes (e.g. taxes on GHG emissions) and on the alignment between ERTR accounts and the information on tax rates and volumes being taxed (OECD PINE database).
 - **Material Flow Accounts:** Methodological work on the estimation of demand-based material flows.
- **International coordination:** SEEA-CF Tech. Committee and UNCEEA, project on SEEA implementation in Kazakhstan, joint seminars with UNECE

*Empowered lives.
Resilient nations.*

Overview on SEEA related activities of UNDP

• UNDP-UNEP Poverty and Environment Initiative (UNDP-UNEP PEI)

– Kyrgyzstan

- SEEA-EEA is being introduced to the NSC to assess the forestry sector;
- Kyzyl-Unkur forestry for pilot study;
- Practical application of a new forestry budget codes is yet to be functional;
- State Agency for Environment Protection and Forestry and NSC are responsible agencies to lead the work after PEI's closure.

– Tajikistan

- SEEA-CF is being introduced for the water and forestry sectors;
- SEEA-CF is functional within the system of statistics which allows integration of water and forestry data with monetary data;
- TAJSTAT is responsible for accounting natural resources and further replication of SEEA-CF in other sectors.

• UNDP MAPS Engagement Facility

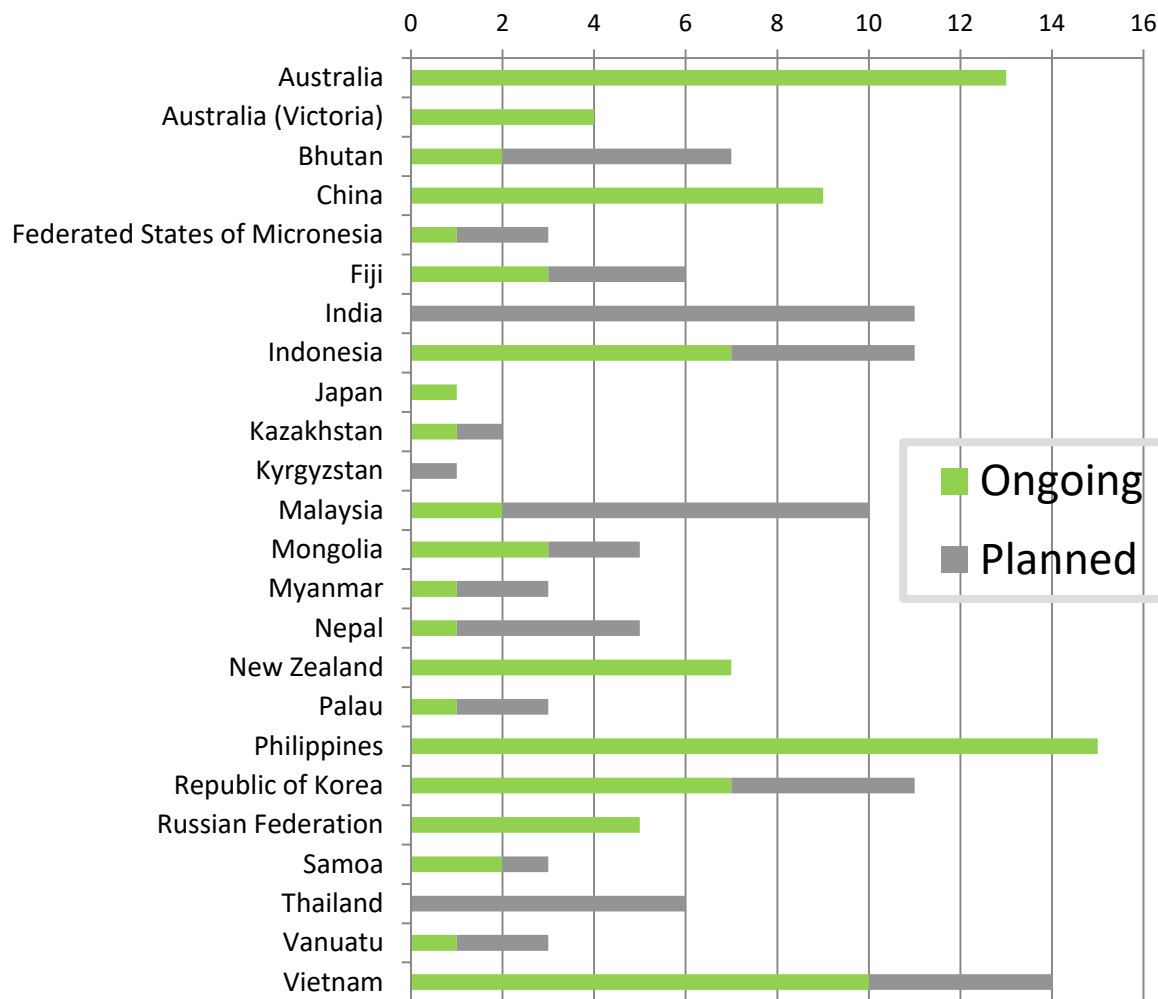
– Kazakhstan and Turkmenistan: Partnering for green SDGs

- SEEA joint proposal submitted in 2018;
- Main activities: i) organize SEEA assessment missions to both countries to develop a situation analysis and roadmap on SEEA implementation; ii) a regional workshop on environment statistics and SEEA in Ashgabat;
- The proposed activities will build upon the PEI-supported tools.

UNECE

- **Coordination of SEEA-related activities with other IOs:** UNECE region
- **SEEA seminars** (in cooperation with OECD) for all CES member countries
- **Methodological work:** e.g. climate change, measuring hazardous events and disasters, waste statistics
- **Capacity development activities on Environment Statistics, SEEA and Shared Environmental Information Systems for SDGs:** In close collaboration with UNEP, UNSD and ESCAP through UN Development Account funding; many trainings, advisory missions, workshops etc. carried out in 2017-2018 in the EECCA region
- **Recent and upcoming events:**
 - High-level workshop on Statistics and SEEA for SDGs in Kazakhstan (January 2019)
 - Study visit SEEA of experts from Moldova to Poland (March 2019)
 - Regional workshop on energy statistics and energy accounts (May 2019)

UN-ESCAP: Asia and the Pacific SEEA progress*



*Number of accounts (max=33); status as of May 2018

UN-ESCAP & the SEEA

Technical assistance

- Assessment, scoping, prioritization and work planning (sub-regional and national)
- Priority SEEA accounts (in-country and remotely)

Training and workshops

- Climate change-related statistics (Pacific focus)
- SEEA & FDES <http://communities.unescap.org/environment-statistics>
- Disaster-related statistics <http://communities.unescap.org/asia-pacific-expert-group-disaster-related-statistics/>

Methodological work

- Ocean accounts
- Disaster-related Statistics Framework

UNSD (1/2)

Global Implementation Strategy

- 100 countries with ongoing programmes on SEEA CF and 50 countries working on SEEA EEA
- Currently approximately 90 countries compiling SEEA CF accounts, approximately 35 countries compiling SEEA EEA accounts

Methodology and Publications

- Revision of SEEA EEA to be completed by end of 2020
- Biophysical modeling guidelines, scenario modeling guidelines and guidelines on valuation to be completed by 2019
- Final draft of SEEA Energy available, soon to be published
- Technical note being finalized: SEEA and link to TSA
- Issues papers on policy applications of the SEEA to be completed by 2019

Data

- Testing energy balances-to-accounts tool which uses IEA data as input, with several countries
- SEEA website to become repository for global SEEA databases, both official and estimates
- Big data project on developing ecosystem extent datasets

UNSD (2/2)

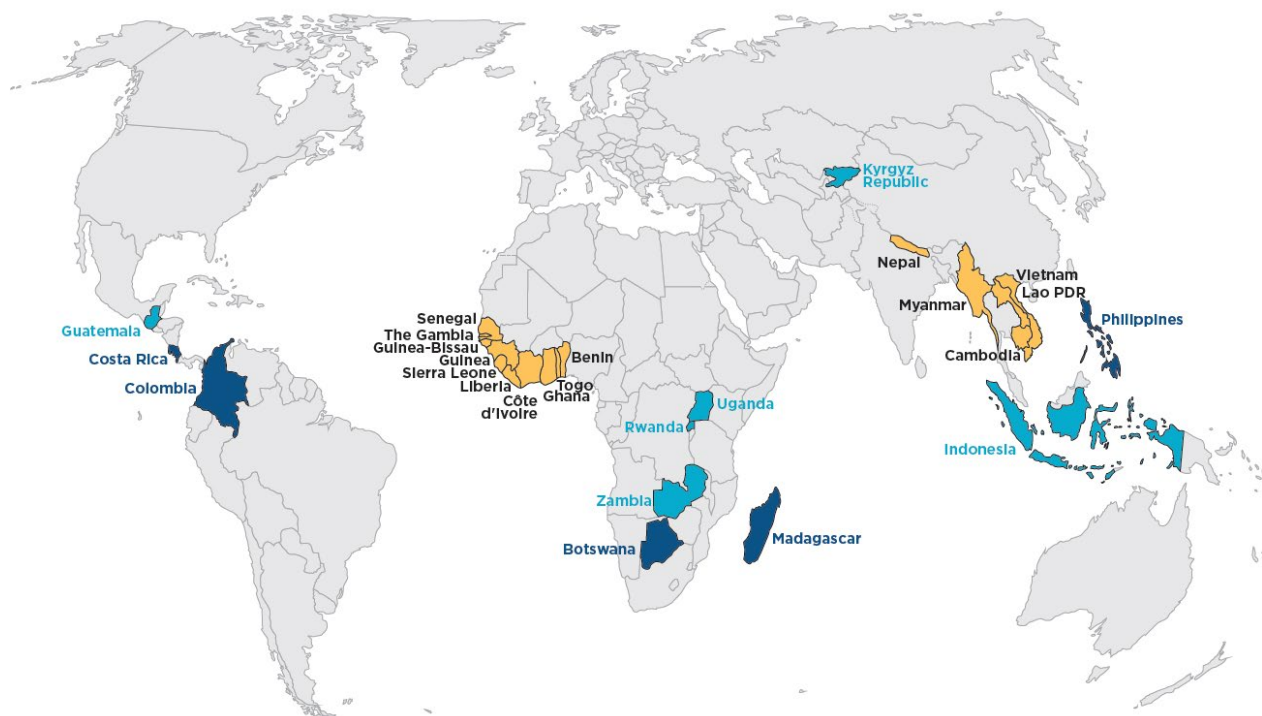
Training materials and capacity building

- Blended learning initiatives in Minsk, Belarus, Amman, Jordan and Rio de Janeiro, Brazil in 2018
- Introduction to SEEA CF e-Learning in English, French, Spanish, Russian
- In-depth modules on energy (upcoming blended learning with IEA, UNECE, ESCAP), water
- In-depth modules on SEEA EEA (English and Spanish)
- Development Account 2020

Natural Capital Accounting and Valuation of Ecosystem Services Project

- EU-funded project in Brazil, China, India, Mexico and South Africa to support testing and implementation of SEEA EEA
- Supporting revision of SEEA EEA and creation of guidelines
- Workstreams on policy application and indicators, natural capital accounting and business accounting

World Bank Wealth Accounting and the Valuation of Ecosystem Services (WAVES)





Breakdown by country and accounts

Country / Account	SEEA CF						SEEA EEA			
	Energy	Forest	Land	Minerals	Other	Water	Coastal protection	Other	Forest and peatlands	Water and wetlands
Botswana	X		X	X		X				
Cambodia									X	X
Colombia		X				X		X		
Costa Rica	X	X				X				
Guatemala	X	X	X	X	X	X				
Indonesia	X		X			X			X	
Kyrgyz Republic		X								
Lao PDR									X	X
Myanmar							X			
Philippines		X		X				X		
Rwanda			X	X		X				
Uganda		X			X				X	X
Vietnam							X			
Zambia		X	X			X				



Supporting the use of NCA in the policy making processes: a few examples

• **Rwanda**

- Land use and land cover accounts are being used for land use planning
- Wealth accounts input for macro-modeling of carrying capacity and green growth

Indonesia

- Peatland accounts input to discussions on defining priority for restoration efforts

Zambia

- Water accounts support the implementation of the Integrated Water Resource Management System
- Developing environmental-economic CGE model for policy analysis with the accounts

Guatemala

- Land and ecosystem accounts used as input to the analysis of the effects of climate change on forests



Institutionalizing NCA: graduated countries show the way

Botswana

- Specific NCA mandate in National Development Plan
- Lead agency: Ministry of Finance and Economic Development; dedicated unit of 13 staff
- Regular update of accounts started with WAVES (e.g. Water, Energy, Minerals, Macro-economic indicators)

Costa Rica

- National Council for Environmental Accounts established; Central Bank (BCCR) leads
- Regular update of water, forest and energy accounts; material flow and selected ecosystem accounts forthcoming

Colombia

- Government decree in 2017 requires the Statistics Department (DANE) to work with all sectors to produce/ update accounts
- Regular update of Wood and land resources, minerals/ energy; and flow accounts (e.g. water, forests products)