



Eurostat activities in support of the implementation of environmental statistics and SEEA in Europe

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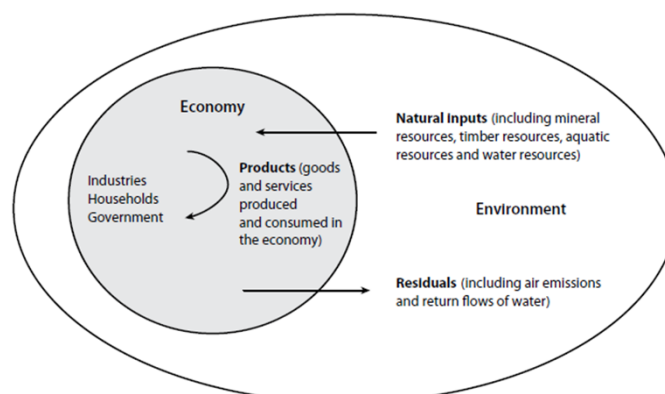
Contents

- 1. Environmental accounts*
- 2. Short history of developments in the EU*
- 3. Current Eurostat activities*
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Environmental accounts

1. *Set of extensions of national accounts*
 - conceptual framework and multipurpose system of tables
2. *Integrates existing data in a coherent system*
3. *Facilitates analyses of relation between economy and environment*

Interrelations between the economy and the environment



Possible uses environmental accounts

Naturally suited for:

Environmental extensions of national accounts

- 'Going beyond GDP'

Efficiency of use natural resources

- Resource efficiency, energy efficiency, water intensity,...

Measures of "environmental growth", jobs, taxes, etc.

- Related to growth and economic performance

Dashboards of indicators (ensure consistence)

- E.g. SDGs

Modelling

- Climate change – e.g. carbon footprints
- Use of natural resources, circular economy (recycling)
- Interdependencies and relations e.g. consumption and jobs, taxation and pollution,...



European environmental accounts: Historical development

Global drivers	Methodologies	EU drivers	Outcomes in EU
SNA (1993)	SEEA (1993)		
London Group (93)	SERIEE (90s)		Pilot studies
	SEEA (2003)	EU Strategy (2003)	First voluntary EU data collection
		EU Strategy (2008)	Co-ordinated EU data collections (voluntary and mandatory)
		Regulation (EU) 691/2011	Handbooks written & revised with experiences
	SEEA CF (2012)	EU Strategy (2014)	
		Extension of Reg 691 (2014)	





Regulation (EU) 691/2011

- *Common framework for the collection, compilation, transmission and evaluation*
 - **Applicable in 28 EU Member States, Norway, Iceland and Switzerland**
 - **Also Balkan countries and Turkey**
- *Specifies domains for data collection in EU*
- *Modular structure*



Regulation (EU) 691/2011 (cont.)

Physical accounts

- **Material flows**
- **Air emissions**
- **Energy flows**

Monetary accounts

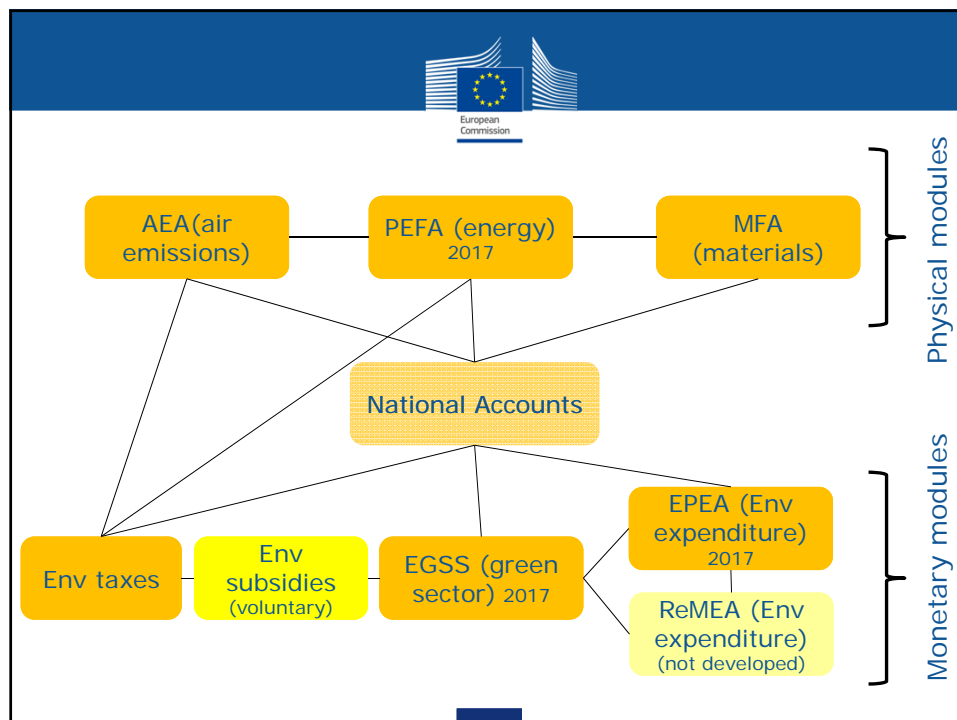
- **Environmental taxes**
- **Environmental goods and services sector ('environmental growth and jobs')**
- **Environmental protection expenditure**

(Eurostat also collects voluntary variables in the legal modules and other non-legal modules)

How priority modules were decided?

Combination of several factors:

- Policy relevance of area
- Maximise usefulness of the interlinks between them and with national accounts
- Data already exists, minimal production costs





European strategy for environmental accounts 2014-2018

- *Agreed with EU Member States at operational level*
- *Aims to fulfil EU policy needs*
- *Sets priorities and work programme for 2014-2018*
 - **Consolidate quality 1st set modules (those from 2013)**
 - air emissions
 - environmental taxes
 - material flows (extraction of natural resources)
 - **Implement 2nd set modules (those from 2017)**
 - environmental protection expenditure
 - environmental goods and services sector (green growth, green jobs)
 - physical energy flow accounts



Strategy 2014-2018 (cont.)

- *Work programme for 2014-2018 (cont.)*
 - **Promote use environmental accounts**
 - **Improve timeliness (early estimates)**
 - **Invest in statistical infrastructure elements (quality reports, SDMX, IO modelling, etc.)**
 - **Develop methodologies and implement voluntary data collections for a few additional areas. Candidates:**
 - Water
 - Forests
 - Environmental subsidies and similar transfers
 - Resource management expenditure



Some Eurostat activities

- *2 Working Groups on environmental accounts*
- *Develop methodology*
 - **Several running task forces e.g. allocation of emissions by economic activity**
 - **Solve open issues, e.g. integrating monetary accounts**
- *Write handbooks and guidelines*
 - **6 handbooks written since 2013; 4 handbooks in preparation**
 - **Explain basis and how to compile accounts**
- *ESTP training courses*
 - **Some 5 thematic courses per year**
- *Provide tools to countries*
 - **e.g. to compile energy accounts from energy statistics**
 - **to estimate carbon and material footprints**
- *Co-finance pilot studies and capacity building*
 - **For EU countries, EFTA and IPA**



Other Eurostat environmental statistics (not SEEA)

Waste statistics

- **Municipal waste, joint OECD/Eurostat questionnaire**
- **Waste generation and treatment**

Forest statistics

- **Joint UNECE/FAO/ITTO/Eurostat questionnaire**

Water statistics

- **Joint OECD/Eurostat questionnaire**

CES climate change related statistics

- **Support CES on dashboard indicators**



How you can benefit (1/3)

Methodological material available online (public)

<http://ec.europa.eu/eurostat/web/environment/methodology>

METHODOLOGY

General documents on environmental accounts

- System of Environmental-Economic Accounting 2012, Central Framework
- System of Environmental-Economic Accounting 2012, Experimental Ecosystem Accounting
- European Strategy for Environmental Accounts

Air emissions accounts

- Manual for air emissions accounts, 2015 edition
- Air Emissions Accounts Questionnaire 2015 (ver. 2 of 01/09/2015)
- Annex I (Correspondence between CRF/NFR - NACE Rev. 2) to Manual for Air Emissions Accounts (2015 edition)
- Air emissions accounts (AEA) quality report for the 2015 data transmission (template)
- Manual for Air Emission Accounts - Annex 1, correspondence between SNAP97 - CRF/NFR - NACE rev.2, 2012 edition
- Manual for Air Emission Accounts, 2009 edition
- Decomposition analysis of carbon dioxide-emission changes in Germany - Conceptual framework and empirical results, 2003
- Creating consolidated and aggregated EU27 Supply, Use and Input- Output Tables, adding environmental extensions (air emissions), and conducting Leontief- type modelling to approximate carbon and other 'footprints' of EU27 consumption for 2000 to 2006

Material flows and resource productivity



How you can benefit (2/3)

Other material in CIRCABC (restricted, access can be granted)

- Documents of working groups
- Results pilots, electronic discussion groups, etc.

CIRCABC

> Eurostat > Environment Statistics, Indicators and Accounting

Library > environmental_expenditure

Library

The Library is the space where contents are stored, managed and shared.

Pilot studies, publications, other work

Spaces

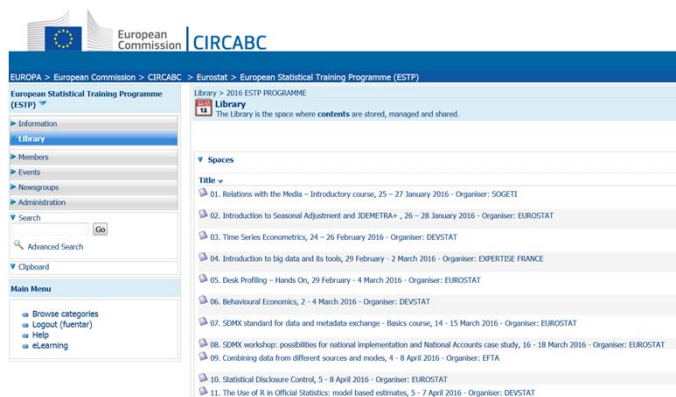
Title

- Country studies
- Environmental expenditure statistics - reflection groups
- Environmental Protection Expenditure
- Material Flow Accounts (MFA)
- NAMEA Air
- PHARE 2003 programme for Environmental Accounting
- Questionnaire_Environmental Taxes 2012

How you can benefit (3/3)

ESTP training courses

- *Attendance to courses possible, subject to availability*
- *Material from past courses online (public)*



Conclusions

- *SEEA accounts*
 - **Data production established in EU**
 - **EU legal basis, modular structure**
 - **EU strategy for 2014-2018**
- *Other environmental statistics*
 - **Waste, water, forestry**
- *Eurostat support activities to countries*
 - **Some are available to EECCA countries too**



Thank you