



Implementing SIEEA in Europe

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Summary

- *The European Statistical System and Eurostat*
- *Communicating SEEA (indicators, analyses)*
- *Tools for implementing SEEA in the EU*
- *Final remarks*

Eurostat in General

- Statistical office of the European Union (EU).
- Provide European statistics for EU and National policy makers, companies and citizens.
- No direct data collection: Agreement with EU NSO on common norms, definitions, methodologies, etc. Data transmitted to Eurostat.
- Regulatory powers on statistics at EU level.

European Strategy for Environmental Accounting 2008

- First priority (most mature)
 - Environmental protection expenditure
 - Economy-wide material flow accounts
 - NAMEA air emissions
- Second priority (2-3 years)
 - Energy accounts
 - Waste
 - Environmental taxes and subsidies
- Third priority (4-5 years)
 - Environmental goods and services
 - Resource management
 - Water accounts (flows)

Laws Implementing SEEA in the EU

- Reg 691/2011. Adopted 6 July 2011. First set of modules
 - Air emissions (14 pollutants x NACE*64)
 - Environmental taxes
 - EW Material flow accounts

- Second batch of modules in negotiation now
 - Simplified environmental protection expenditure
 - Environmental goods and services accounts
 - Energy accounts

EU Account Integration

various responses,
amongst which:
Europe's "footprints"

modelling

environmentally extended Input-Output
data framework

Integration

Physical Flow Accounts

- Air Emissions Accounts
- Material Flow Accounts
 - Energy Accounts
 - Water Accounts
 - Land Use Accounts

Monetary Flow Accounts

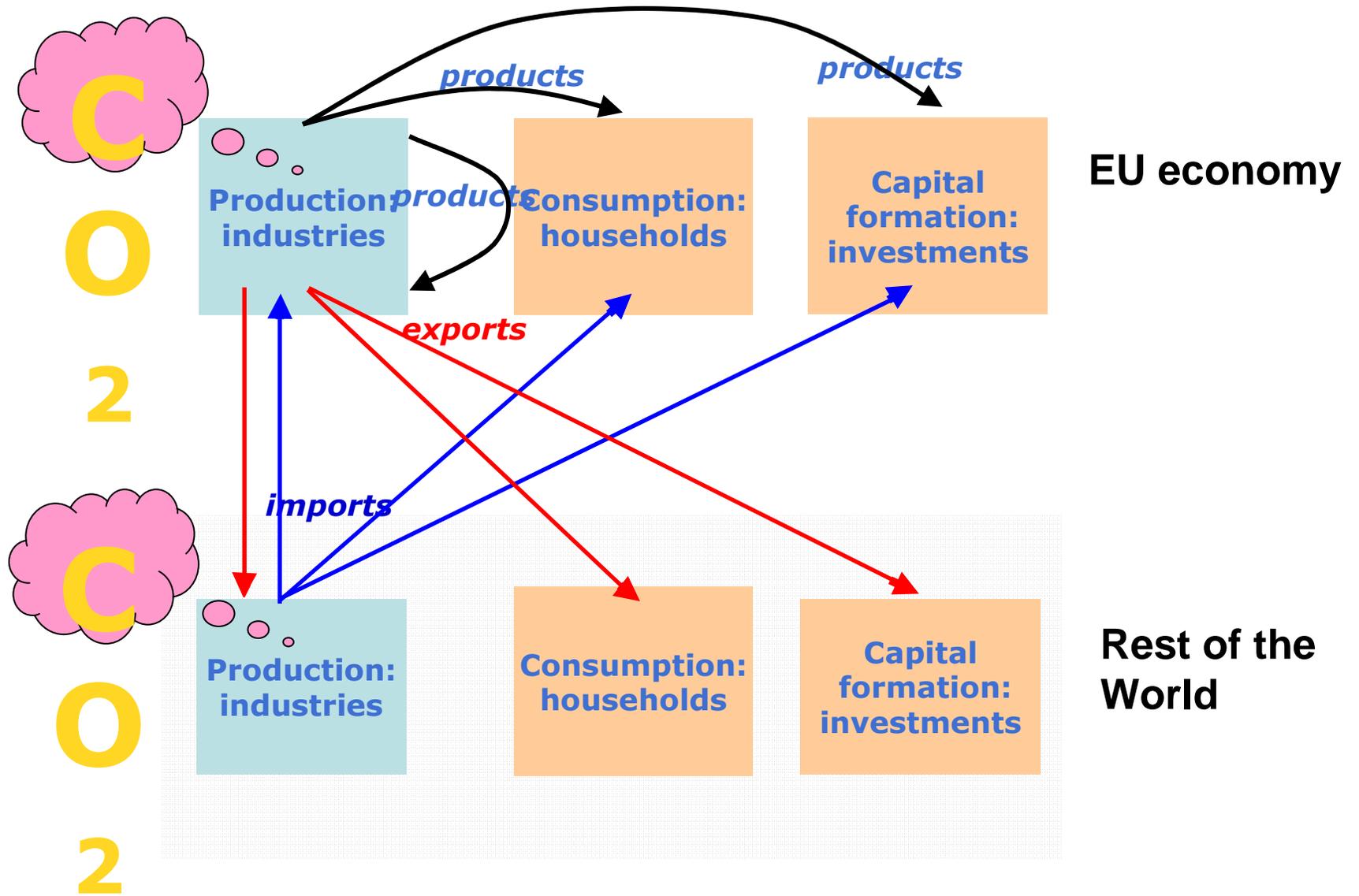
- Environmental Expenditure Accounts
 - Environmental Taxes
- Environmental Goods and Services

National Accounts

- Supply, Use and Input-Output Tables (SUIOTs)

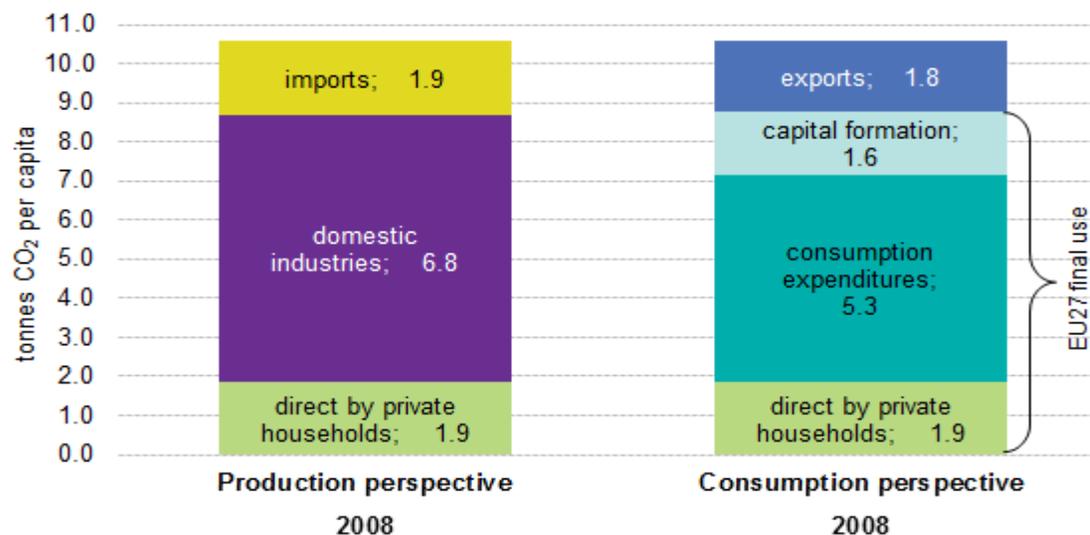
Global Perspective

June 2013



Example: IO analysis with air emission accounts

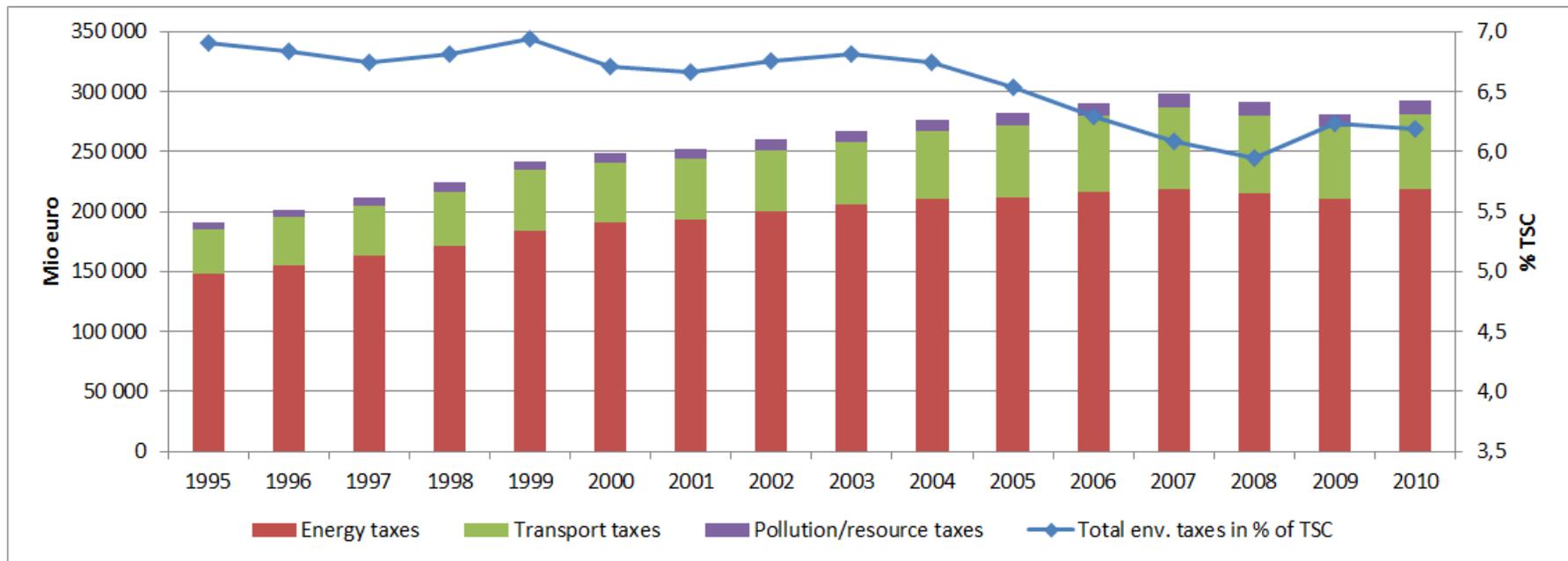
Domestic and global CO₂-emissions induced by EU27 production and consumption perspective, 2008



http://epp.eurostat.ec.europa.eu/cache/ITY_OFFPUB/KS-SF-11-022/EN/KS-SF-11-022-EN.PDF

Example: Environmental taxes revenue

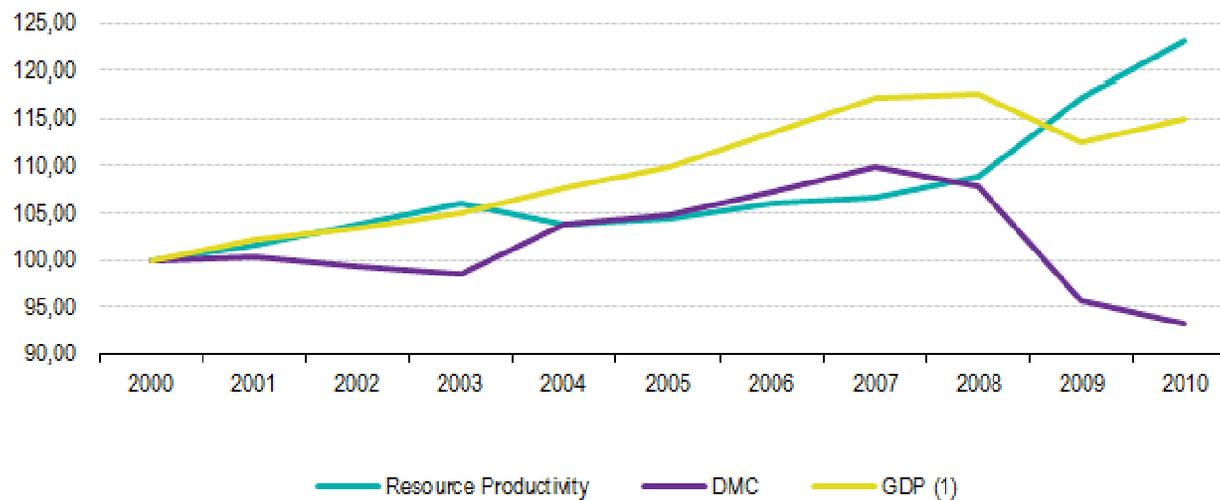
Environmental tax revenue by type, EU-27, 1995-2010 (million EUR and % TSC)



http://epp.eurostat.ec.europa.eu/portal/page/portal/product_details/publication?p_product_code=KS-SF-11-067

Example: Resource productivity

Figure: Resource Productivity in comparison to GDP and DMC, EU-27, 2000-2010
(Index: 2000=100)



(1) GDP in chain-linked volumes, reference year 2005; suited for comparing single country over time
Source: Eurostat (online data code: [nama_gdp_k](#), [env_ac_mfa](#))

Overview of RE indicators from official statistics

STATISTICS and ACCOUNTS

- *LU/LC*

- *Energy Statistics*

- *Waste Statistics and other waste legislation (Waste Data centre)*

- *Chemicals*

- *Water*

- *Forestry*

- *Environmental Accounts*

- *EE SUIOT*

Some INDICATORS

- LU indicators*
- Protected areas*

- Energy efficiency*
- CO2 early estimates*
- Renewable energy*

- Waste generation (activity/waste category)*
- Waste Treatment (Recycling, incineration...)*
- Municipal Waste generation and treatment*
- Hazardous waste*
- ...*
- Production harmful / toxic chemicals*

- Exploitation of water resources*
- Wastewater treatment*
- Forest surface*

- Resource productivity*
- Domestic Material Consum. (DMC)*
- Environmental taxes / protection expenditure indicators*
- GHG Emissions*

- Carbon footprint / RMC*

Tools in the EU

Regulation: an obligation

Monitoring compliance (blame and fame)

Manuals and Training Material

Financing implementation in EU (grants)

Financing outside the EU: Possible (Current examples in Agriculture and WAVES)

European Statistical Training

Courses on Environmental accounts 2012-2013

Energy accounts February'12

Environmental taxes May'12

Environmental Protection Expenditure Sept'12

Environmental Goods and Services Sector June'13

Material Flow Accounts October'13

Training material could be made available

EEA Implementing Manuals

Over the years Eurostat with experts from the most advanced EU MS (NL DE FR etc.) developed several manuals

- *Air emissions accounts*
- *Environmental taxes*
- *Economy-wide MFA*
- *EPE*
- *EGSS*
- *Forests*
- *Water (which became SEEA-W)*

Manuals available in Eurostat [web site](#)



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Environmental accounts

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Historical background

Political context

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Manuals

Data collection (questionnaires)

▼ Publications

Environmental protection expenditure

Environmental goods and services sector

Environmental taxes

Economy wide material flow accounts

Air emission accounts

Energy accounts

Environmental asset accounts

Links

Manuals

In the following manuals you can find descriptions of data sources and procedures which are used for data collection by the Member States.

[AEA manual, part B: Compilation guide - revised April 2013](#)

[AEA manual, Annex 1](#)

[Economy-wide material flow accounts compilation guide - revised 26 July 2012](#)

[Environmental transfers 2012 pilot data collection guidelines](#)

[ReMEA pilot data collection 2012](#)

[Manual for Air Emission Accounts 2009](#)

[Handbook on Environmental Goods and Service Sector, 2009](#)

[Economy-wide material flow accounts compilation guide 2009](#)

[Environmental protection expenditure -General government and specialised producers data collection handbook, 2007](#)

[OECD/Eurostat Environment Protection Expenditure and Revenue Joint Questionnaire / SERIEE Environmental Protection Expenditure Account: Conversion guidelines, 2005](#)

[Environmental expenditure statistics - Industry data collection handbook, 2005](#)

[SERIEE- Environmental protection expenditure accounts - Results of pilot studies, 2002](#)

[SERIEE - Environmental protection expenditure accounts - Compilation guide, 2002](#)

[Workbook related to the 'SERIEE Environmental Protection Expenditure Account - Compilation Guide', 2002](#)



News

[Beyond GDP website relaunched - now in DE, EN and FR](#)

See also

[Environment](#)

Legislation

[Regulation No 691/2011 on European Environmental Economic Accounts](#)

Meeting archives

[Meeting documents](#)

Final remarks

- *Global aspects of environment*
Global consequences of pressures
Global consequences of economic options
- *Importance of standards*
Comparability/ Sharing knowledge
- *Analytical capacity*
Building indicators
Linking economy and environment
- *Feasible*
Tested in many countries
Available methodologies, training, expertise...
Advocacy material
Country benchmarking
Available basic data
Funding opportunities



**Thank you
for your attention!**

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