

Data Integration in Environment Statistics

**EXPERT GROUP MEETING ON THE REVISION OF THE FRAMEWORK FOR
THE DEVELOPMENT OF ENVIRONMENT STATISTICS (FDES)**

New York, 8-10 November 2010

STATISTICS DIVISION - UNITED NATIONS

Christian Heidorn, Eurostat, Environment statistics

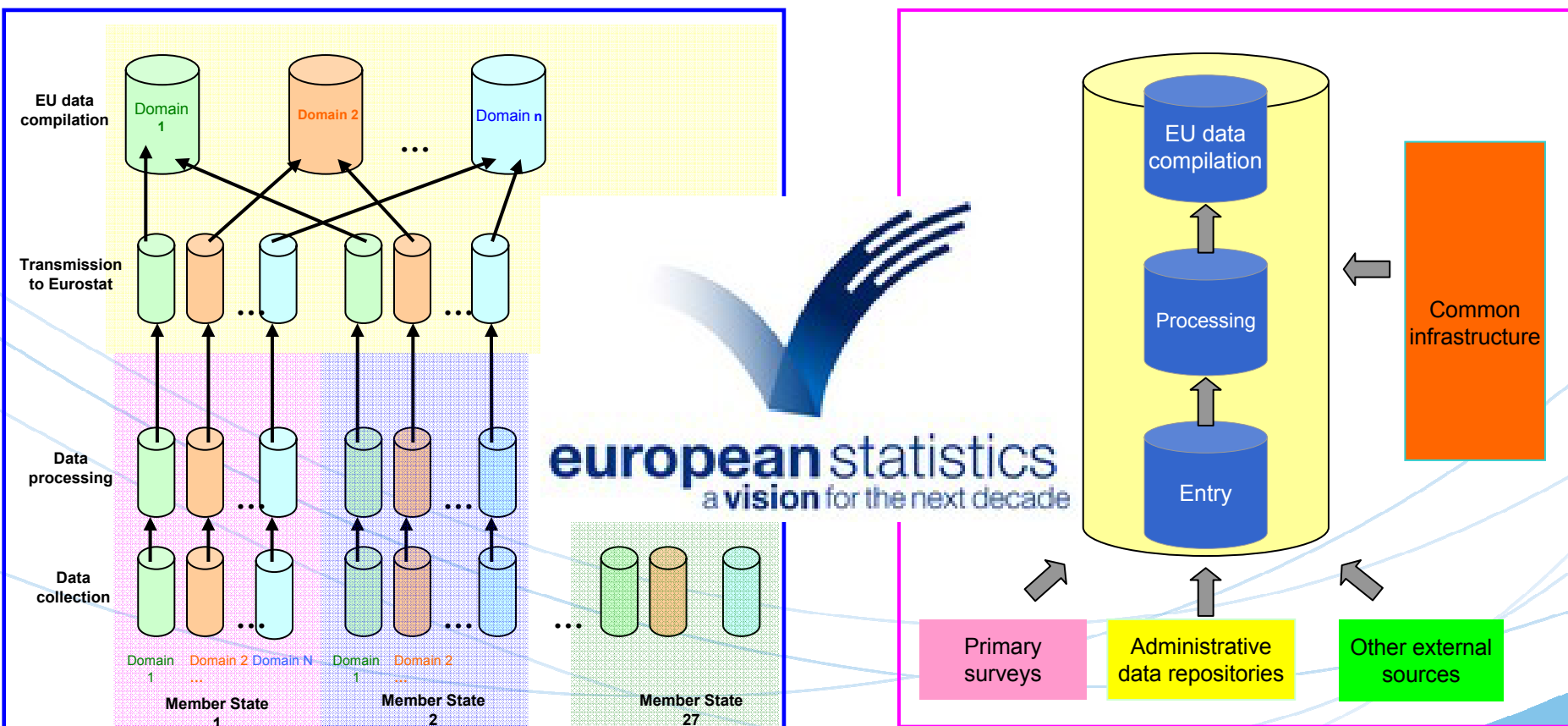
Content

- Why data integration ?
- Examples: Energy statistics >>> greenhouse gas emissions
 - Production statistics >>> Toxic chemicals
 - >>> Environmental chemicals
 - Production statistics >>> Packaging waste
 - Livestock statistics >>> greenhouse gases
 - Data integration across reporting obligations
- Questions (Relevant for the revised FDES ?)

Data Integration, why?

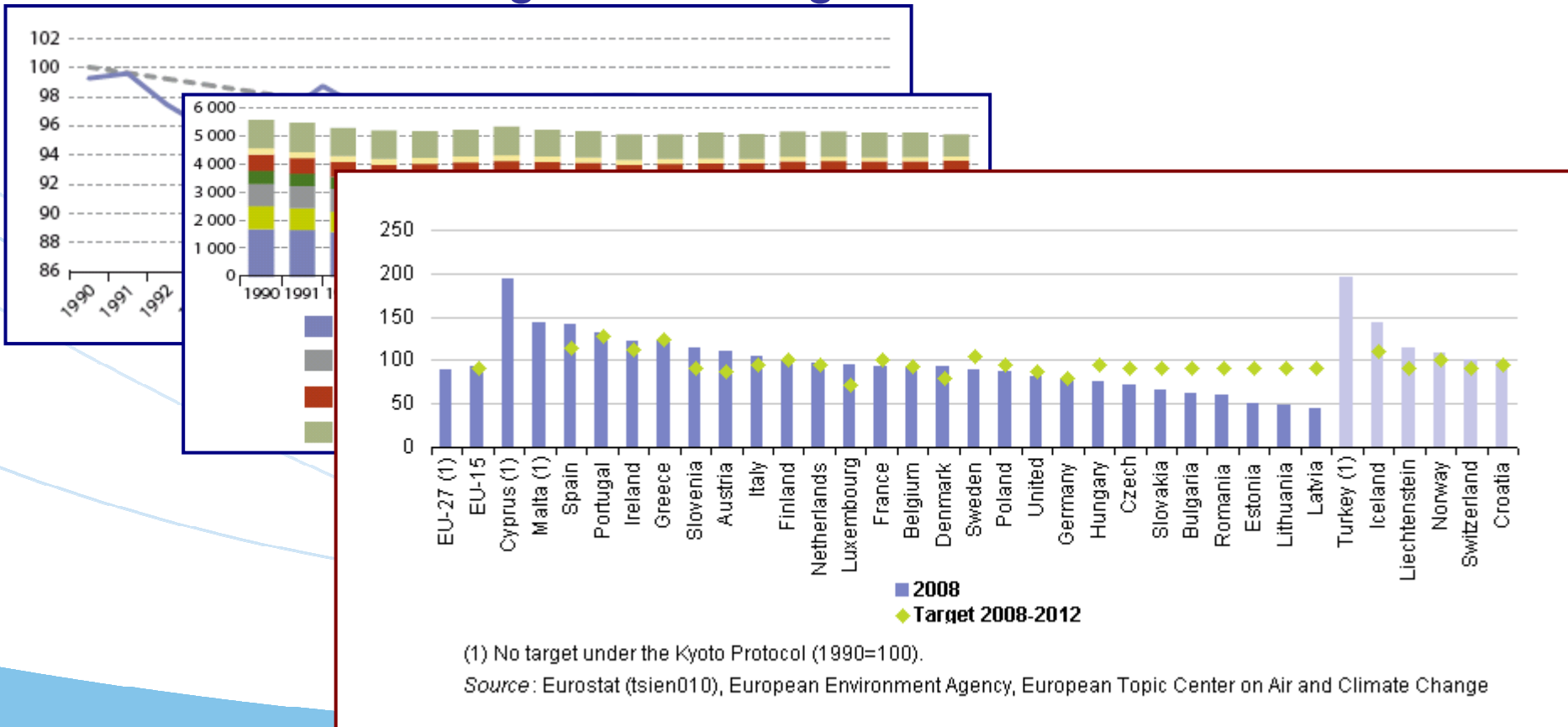
- Many parallel statistical processes, so far:
Only **limited interaction** between domains, e.g:
Production statistics <> environment statistics
Trade statistics <> material flows
- Many 'quantitative' but 'non-statistical' reporting obligations' not yet used
- Potential for **efficiency** gains
(Shared data processing, multiple use of data,
common methodology, ...)

Statistical production, a smarter way



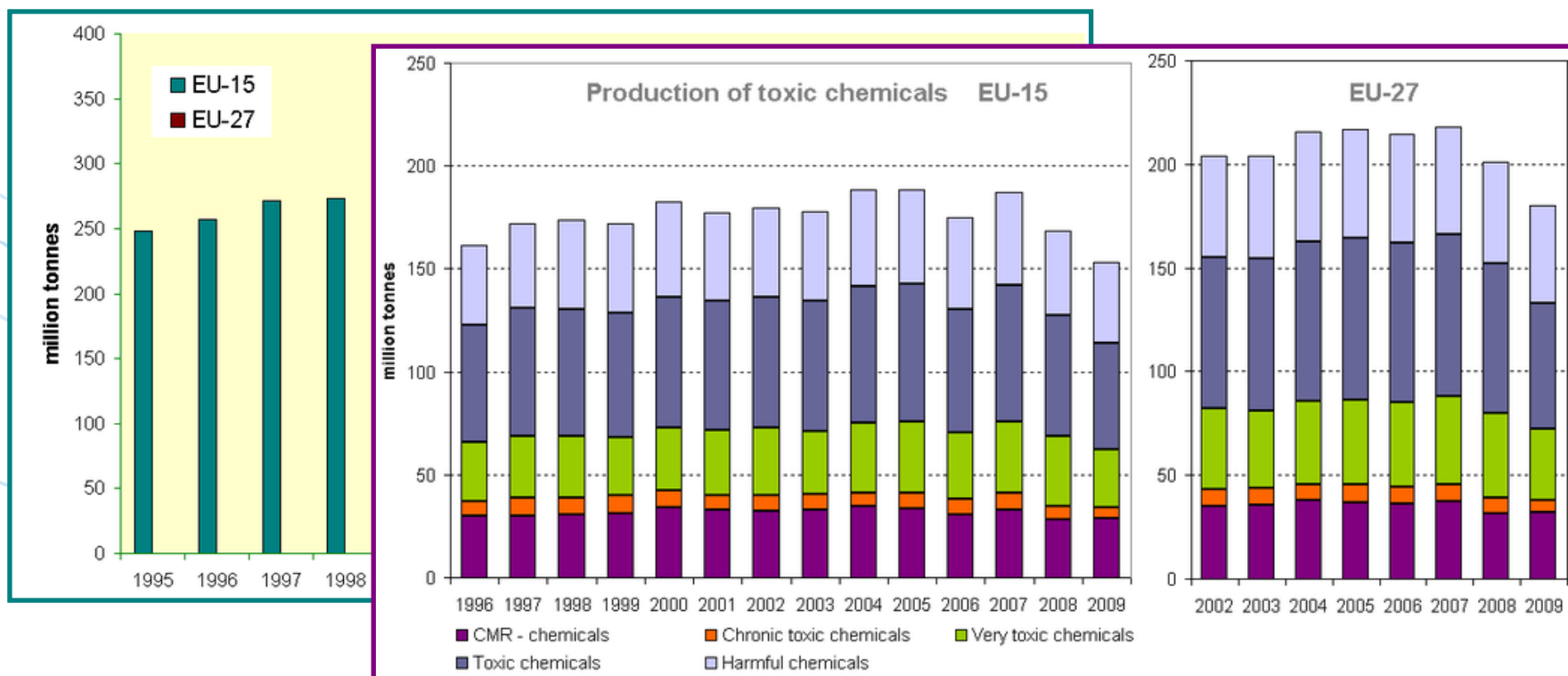
Data integration, examples

Use of energy, transport, agriculture and production statistics for the calculation of greenhouse gas emissions



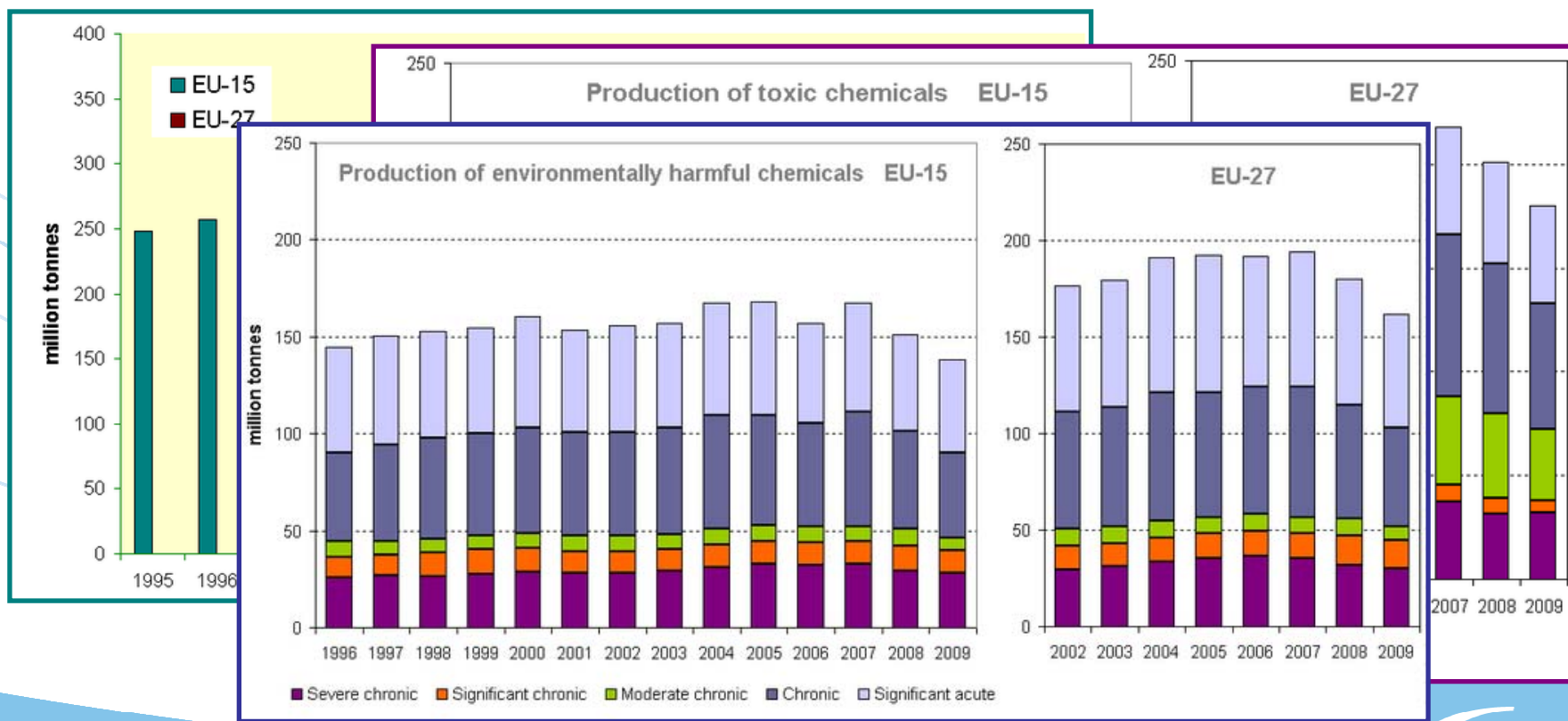
Data integration, examples

Toxic chemicals: Use of production statistics for chemicals and aggregate to 'toxicity' classes



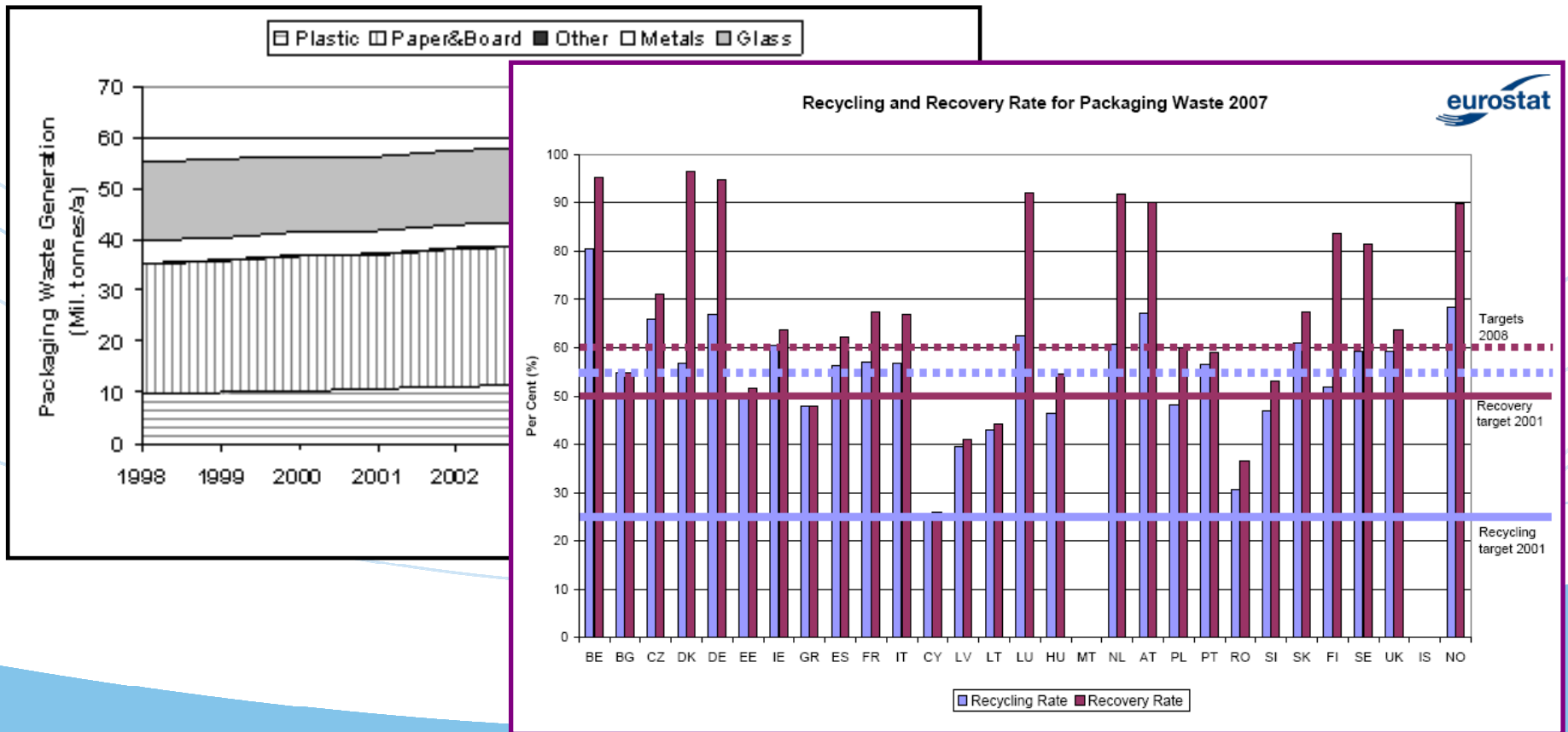
Data integration, examples

Environmentally harmful chemicals: Production statistics aggregated to 'aquatic toxicity' classes



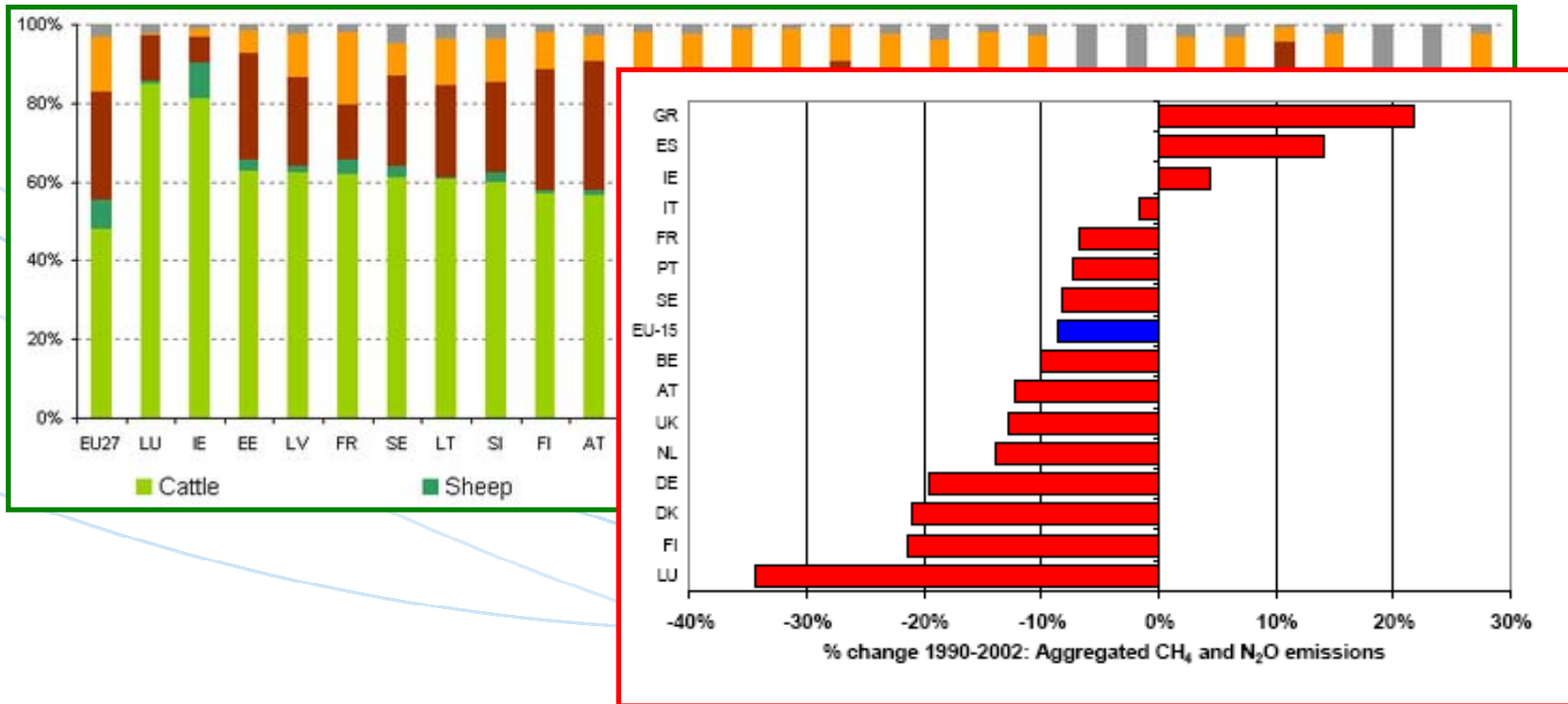
Data integration, examples

Packaging waste: Production statistics for the calculation of waste arising



Data integration, examples

Agriculture: Livestock statistics for the calculation of agriculture's share in greenhouse gas emissions





Environmental Data Centre on Waste

[Introduction](#)

[News](#)

▼ [Data](#)

[Main tables](#)

[Database](#)

▼ [Waste streams](#)

[Batteries](#)

[Biowaste](#)

[End of life vehicles \(ELVs\)](#)

[Hazardous waste](#)

[Packaging waste](#)

[Waste electrical and
electronic equipment](#)

▼ [Waste management](#)

[Waste treatment](#)

[Recycling](#)

[Landfill](#)

▼ [Sectors](#)

[Municipal waste](#)

[Commercial and industrial
waste](#)

[Construction and demolition
waste](#)

[Waste from mining and
quarrying](#)

[Legislation](#)

[Reporting](#)

[Methodology](#)

▼ [Publications](#)

[Statistical books](#)

[Pilot studies](#)

[Scientific and technical reports](#)

Reporting



Time schedule for upcoming reportings

Deadline for Member States	Member	Reporting obligation (for more information use links to information on respective legislation and guidelines)
30. June 2010		End of Life Vehicles (ELV) for data 2008
30. June 2010		Packaging Waste for data 2008
30. June 2010		Waste Electrical and Electronic equipment (WEEE) for data 2007 and 2008
30. June 2010		Waste Statistics Regulation for data 2008
30. Sept. 2010		Hazardous Waste Directive, Implementation report
30. Sept. 2010		Landfill Directive, Implementation report
30. Sept. 2010		Packaging Waste Directive, Implementation report
30. Sept. 2010		Waste Framework Directive, Implementation report
30. Sept. 2010		WEEE Directive, Implementation report
30. Sept. 2010		Directive on the disposal of waste oils, Implementation report
30. Sept. 2010		Sewage sludge Directive, Implementation report
31. Dec. 2010		Waste Shipment Regulation for data 2009

NEW Structural indicator on municipal waste

Each year the structural indicator on municipal waste is updated. Eurostat invites Member States to send their updates for the period 1995 to 2009.

Environmental Data Centre on Waste

Introduction

News

Data

Main tables

Price Developments and Volume

Price index and volume trade yearly and monthly

Yearly			Monthly
PERIOD	average €/ tonne	tonnes	PERIOD
2000	129.4	20,447,500	Jan. 2006
2001	91.4	20,209,029	Feb. 2006
2002	106.4	20,868,189	Mar. 2006
2003	102.8	23,571,107	Apr. 2006
2004	97.6	27,214,519	May. 2006
2005	97.0	28,870,607	Jun. 2006
2006	100.3	31,884,243	Jul. 2006
2007	121.9	34,882,712	Aug. 2006
2008	125.6	35,352,869	Sep. 2006
			Oct. 2006
			Nov. 2006
			Dec. 2006

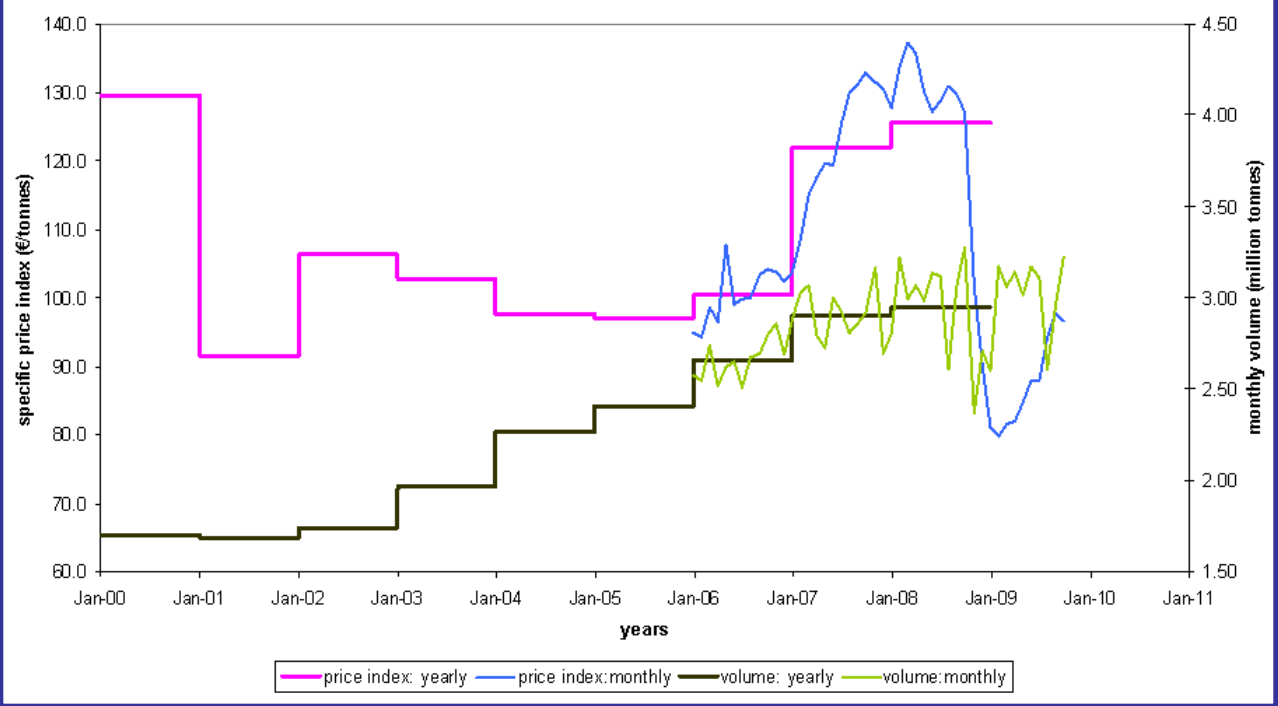
Tab

Table Graph Map

tsien120_esms - Microsoft Internet Explorer provided by European Commission

Home Feeds (J) Print Page Tools Help Encoding

Price Developments and Trade Volume of Paper Waste in EU-27



price index: yearly price index: monthly volume: yearly volume: monthly

Price Development of Paper Waste

The price of secondary materials (waste materials) is highly influenced by the price of raw materials and thus by the overall economic development. The revenues for secondary material pay for a substantial part of the waste management schemes.

quarrying

Legislation

Reporting

e=Estimated value i=See explanation

Footnote

3

3.

The delay between reference period and the publication of the indicator is about a year.

15.2 Punctuality

In order to meet the deadline for some countries estimates have to be accepted.

Conclusions / questions

- The 'classic' statistical system may have a lot more to offer for environment statisticians than what we currently use. Domain managers of 'other' statistics often do not even know how their work contributes to the generation of environmental information
- The statistical system is under increasing pressure to reduce the burden for respondents. As a consequence it is more and more difficult to establish new statistical activities. There is a certain risk that cutting down statistics in specific domains have a direct impact on the quality of the derived environmental statistics.
- Environment statisticians could be forerunners in getting away from the 'stovepipe' approach still used in the statistical system towards a more integrated production of official statistics.
- The new FDES could propose the development of guidance on the integration of 'other' statistical domains into environment statistics.
- Do the experts on the Revision of the Framework for the Development of Environment Statistics share Eurostat's view?

Data Integration in Environment Statistics

Thank you for your attention

Christian.Heidorn@ec.europa.eu