ENVIRONMENTAL ACCOUNTS IN THE CZECH REPUBLIC (HISTORY, DEVELOPMENT, EXPERIENCE)

Eva Kožoušková

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Institutional Development

■ CZECH STATISTICAL OFFICE (CZSO)
  ■ The Central Administration Institution
  ■ The State Statistical Service
  ■ The Czech Statistical Office is chaired by the President who is appointed and recalled by the President of the Czech Republic upon a proposal of the Government of the Czech Republic

■ Act No 89/1995 Coll. of 20 April 1995 on the State Statistical Service
Organizational Structure of the Czech Statistical Office

PRESIDENT OF THE CZSO

VICE-PRESIDENT OF THE CZSO

FINANCIAL AND ADMINISTRATION SECTION

GENERAL METHODOLOGY AND REGISTERS SECTION

MACROECONOMIC STATISTICS SECTION

BUSINESS STATISTICS SECTION

VICE-PRESIDENT OF THE CZSO - REGIONS

DEMOGRAPHY AND SOCIAL STATISTICS SECTION

Industrial, Construction, and Energy Statistics Department

Services Statistics Department

Business Statistics Coordination and Business Cycle Surveys Department

Agricultural, Forestry, and Environmental Statistics Department

Agricultural and Forestry Statistics Unit

Environmental Statistics Unit
Environmental Statistics Unit

- 1993: an independent unit
- 8 employees

- Water statistics
- Waste statistics
- Environmental protection expenditure statistics
- Environmental economic accounts
- Indicators of sustainable development
Environmental Economic Accounts

- National accounts framework  SNA
- Links between economy and environment

- 2007: European Parliament and the Council: need for high-quality statistics and accounts in the domain of the environment

- 2009: The draft of the first EU legislation concerning environmental economic accounts
Environmental Economic Accounts Legislation

■ Regulation (EU) No 691/2011 of the European parliament and of the Council (6 July 2011) on European environmental economic accounts
  ■ Air emission accounts
  ■ Environmentally related taxes by economic activity
  ■ Economy-wide material flow accounts

  ■ Environmental protection expenditure accounts
  ■ Environmental goods and services sector accounts
  ■ Physical energy flow accounts
Environmental Economic Accounts

- PHARE Multi-beneficiary Statistical Co-operation Programme 2003
- Eurostat Grant Contract No 2004.19100.019
- Co-financing by the EU
- November 2004 – November 2005

- Air emission accounts
- Material flows accounts
Environmental Economic Accounts
Air Emission Accounts, Material Flows Accounts

- The project's main goals
  - Ensuring and describing all relevant sources of data
  - Gaining essential data for compilation of AEA and MFA
  - Compilation of AEA and MFA
  - Establishing regular annual compilation
  - Obtained results analysis
  - Producing the publication focused on environmental accounting
  - Obtained results practical application at a national level (Reports on the environment of the CZ, State environmental policy, etc.)
Environmental Economic Accounts
Air Emission Account

- Emissions of air pollutants and greenhouse gasses by industries

- Cooperation and data sources
  - The Czech Hydro-Meteorological Institute (CHMI)
  - CZSO: Industrial, Construction and Energy Statistics Department
  - CZSO: National Accounts Department
  - CZSO: Labour Market and Equal Opportunities Statistics Department
Environmental Economic Accounts
Material Flows Accounts

- Quantification of the total demand of materials by an economic system

- **Cooperation and data sources**
  - Charles University Environment Center in Prague
  - CZSO: Agricultural and Forestry Statistics Unit
  - CZSO: External Trade Statistics Department
  - The Ministry of Industry and Trade of the Czech Republic
  - The Czech Geological Survey Services: Geofond
  - The Czech University of Agriculture in Prague
Environmental Economic Accounts
Environmentally - Related Taxes by Economic Activity

- Quantifying of environmentally-related taxes by economic activity of payers and by the tax type - energy, transport, pollution and resource taxes

- Eurostat Grant Agreement No 50304.2008.001-2008.327
Czech Republic (Czech Statistical Office)

- The project's main goals
  - Ensuring and describing all relevant sources of data
  - Gaining essential data for compilation
  - Compilation of accounts
Environmental Economic Accounts
Environmentally - Related Taxes by Economic Activity

- **Methodology**
  - Environmental taxes: A statistical guide, Eurostat (2001)
  - Standard tables

- **Cooperation and data sources**
  - Charles University Environment Centre
  - CZSO: National Accounts Department
  - The Ministry of Finance of the Czech Republic
  - Customs Administration of the Czech Republic
Environmental Economic Accounts
Environmental Protection Expenditure Accounts

- Quantification of the expenditure devoted to environmental protection by the economic activity of a paying entity by environmental domain: classification CEPA 2000

- Joint Questionnaire (JQ Eurostat and OECD)
  - Data sources: the survey on environmental protection expenditure and revenues
  - Data processing: Environmental Statistics Unit

- Environmental protection expenditure accounts (EPEA)
  - Different concepts: JQ vs. EPEA
  - Cooperation with CZSO National Accounts Department

- 2016 Project
Environmental Economic Accounts
Environmental Goods and Services Sector Accounts

- Production activity of a national economy that generates environmental products: goods and services for the purpose of environmental protection or resource management

- Eurostat grant Agreement No 50304.2009.001-2009.270
  - 2010 - 2011

- Methodology
  - The Handbook on Environmental Goods and Services Sector, Eurostat (2009)
Environmental Economic Accounts
Environmental Goods and Services Sector Accounts

The project's main goals

- Data sources

Cooperation and data sources

- The University of Jan Evangelista Purkyně: a data supply contract
- CZSO: Industrial Statistics Unit
- CZSO: Environmental Statistics Unit: survey on environmental protection expenditure and revenues
Environmental Economic Accounts
Physical Energy Flow Accounts

- Compilation of the physical energy flows into national economy, the flows circulating within the economy and outputs to other economies or to the environment

- Starting point 2014
- Methodology
  - PEFA manual, Eurostat (2014)
  - PEFA Builder: IT tool
- Cooperation and data sources
  - CZSO: Energy Statistics Unit
  - CZSO: National accounts department: Input-Output Tables Unit
  - The Ministry of Industry and Trade of the Czech Republic
Environmental Economic Accounts
Environmental Subsidies and Similar Transfers

- Current or capital transfers that are intended to support activities which protect the environment or reduce the use and extraction of natural resources

- Starting point 2012

- Methodology
  - Pilot data collection on environmental subsidies and similar transfers, June 2012
  - Environmental subsidies and similar transfers: Guidelines (2015)
Environmental Economic Accounts
Environmental Subsidies and Similar Transfers

- Grant agreement No 05121.2013.003-2013.333
- January 2014 – October 2015

**Cooperation and data sources**

- CZSO: National Accounts Department
- Information System State Cashdesk
- The Central Register of Subsidies (CEDR)
- Ministries: the Ministry of Agriculture, the Ministry of Industry and Trade, the Ministry of the Environment
- The State Environmental Fund of the Czech Republic
- Regions: 14 Regional Offices
- Municipalities: 20 cities
Thank you for your attention
Any questions?