



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

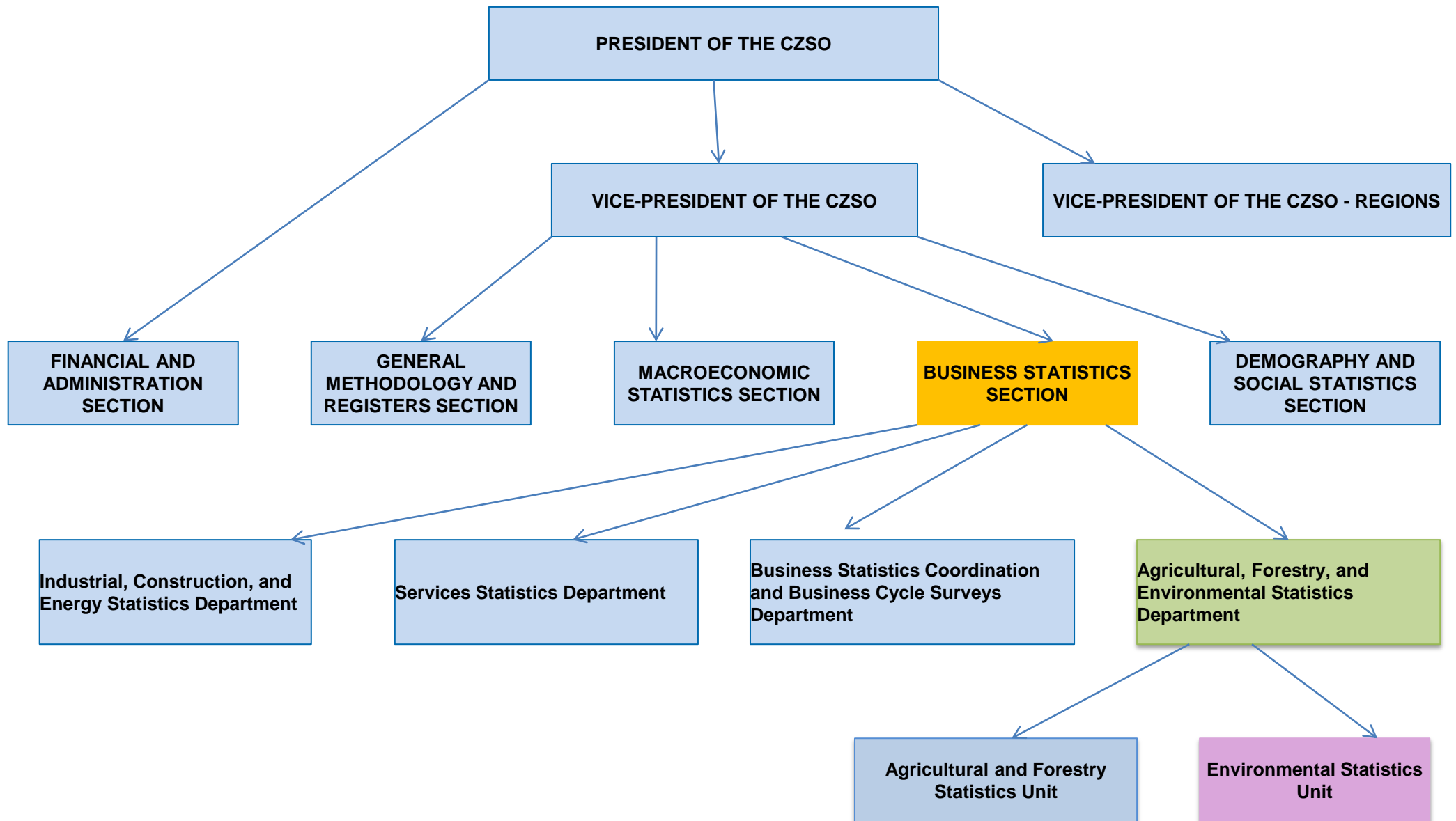
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Seminar on SEEA implementation, 14 - 15 October 2015,  
Geneva, Switzerland

# 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



# 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

- **Conceptual framework SEEA 1993, 2003, SEEA CF 2012**
- **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
- Regulation (EU) No 538/2014 of the European Parliament and of the Council (16 April 2014) amending Regulation (EU) No 691/2011
  - 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**
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- **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?**