



# Spending Review of Environment

**Mariana Bendíková**

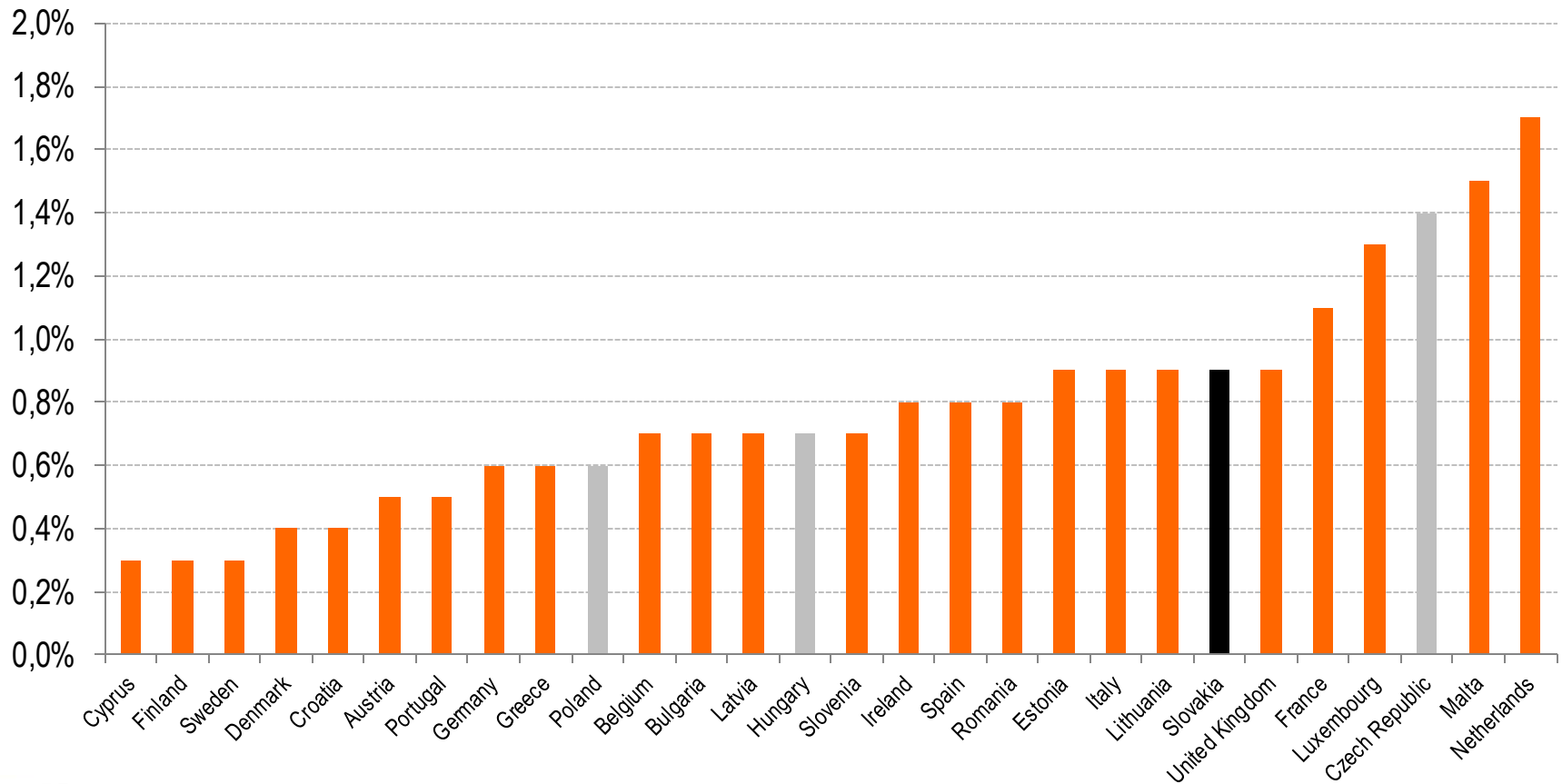
*Institute for Environmental Policy (IEP)*

*Ministry of Environment of the Slovak republic*



# Above average spendings on environment

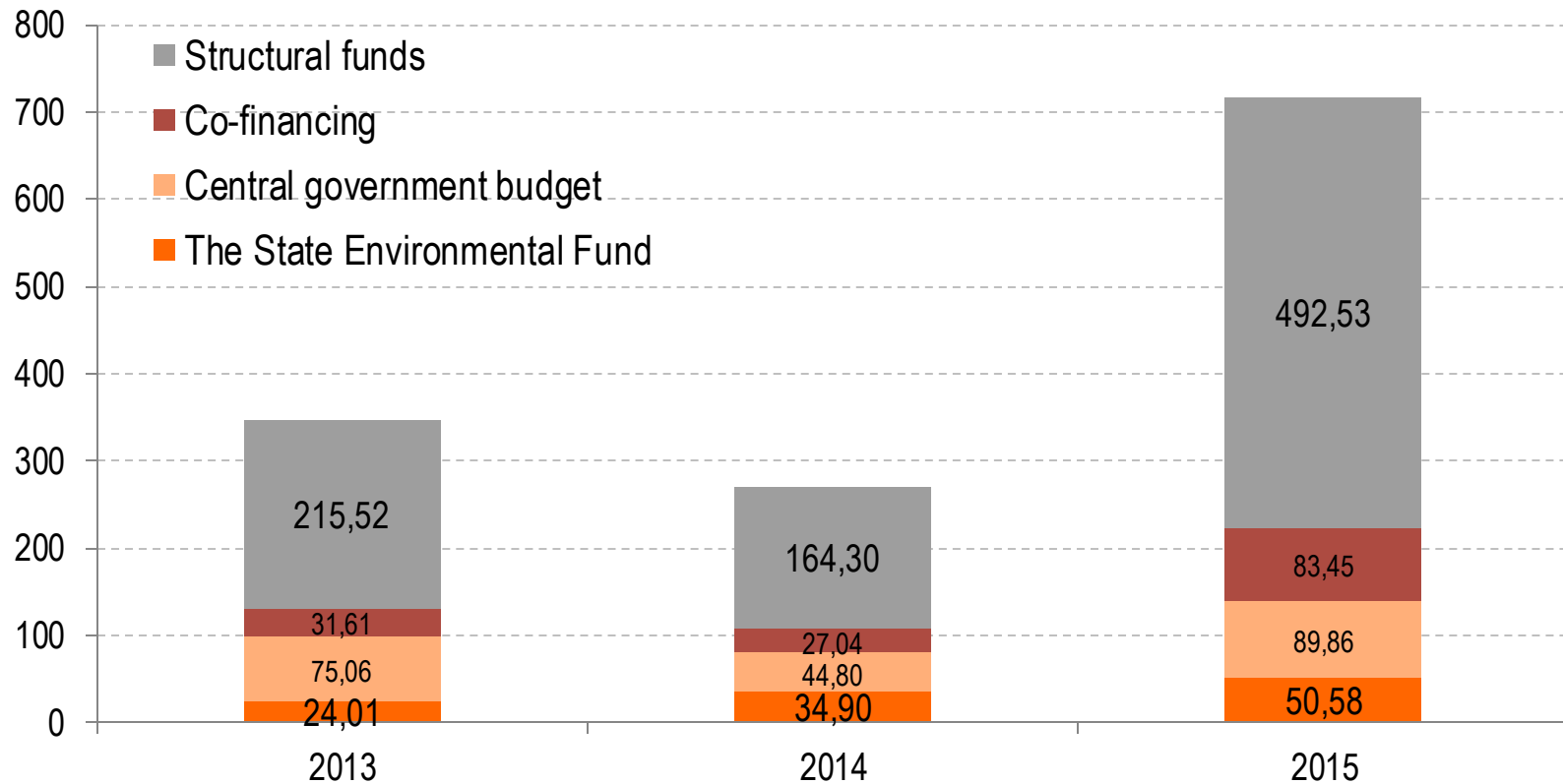
Environmental protection expenditure of the public sector, as % of GDP



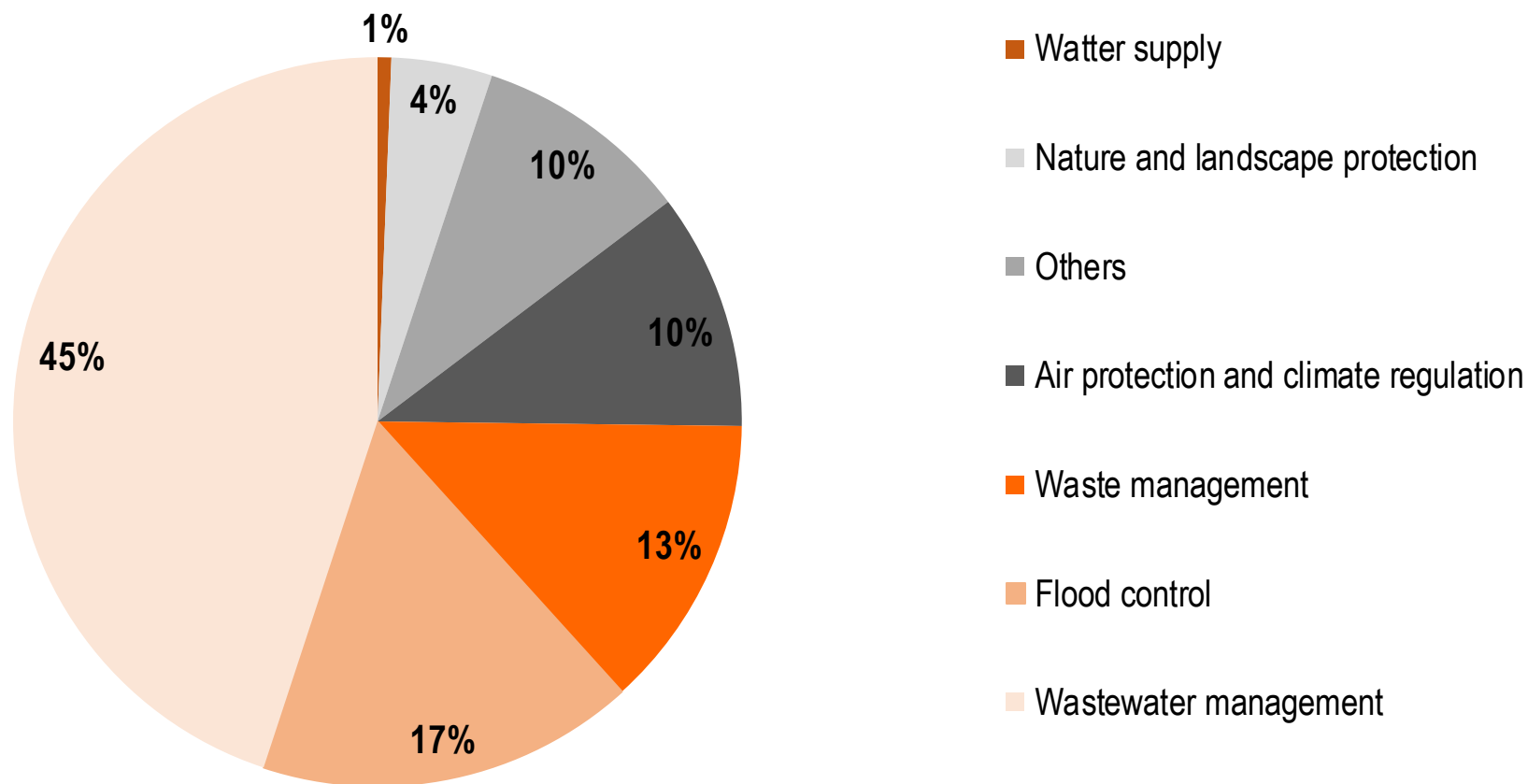
Source: Eurostat

# ... which relies heavily on EU funds...

The volume of financial resources, M. €

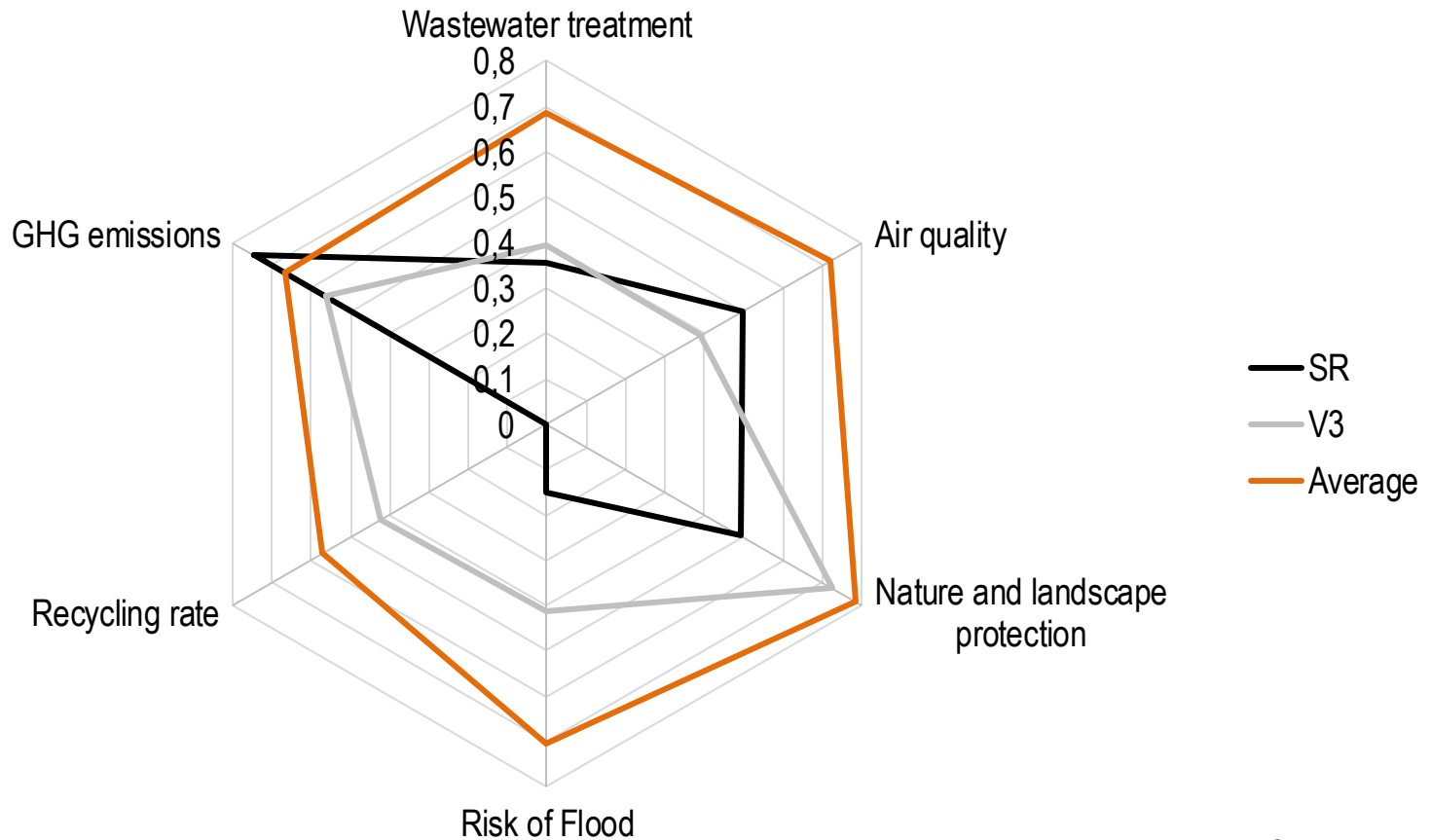


# | ...are spent mainly on wastewater and waste management and flood control



Source: RIS, 2015

# However, outcomes are still poor in most areas



Source: IEP

## We would like to

- monitor and assess performance of different areas of environment,
- quantify possible savings
- reallocate resources to areas with higher value

## How we do it

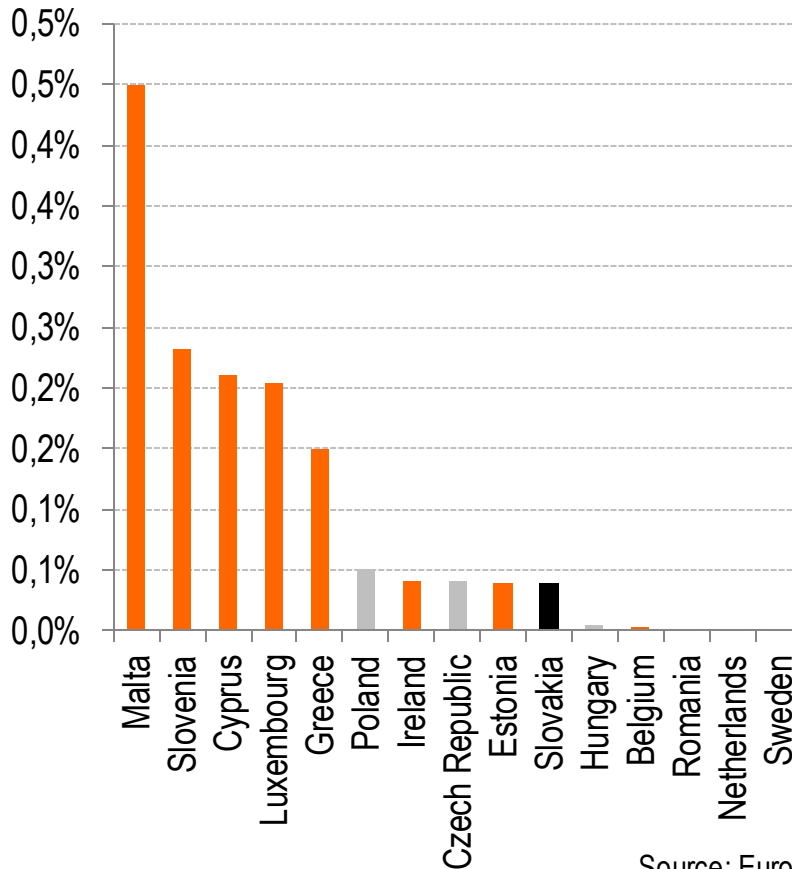
- comparing outcome indicators and inputs (money), benchmarking among projects, Slovak districts and regions or international comparison depending on data availability

## Limitations

- Struggle with data quality (e.g. accessibility, missing an international comparison, data in paper form 😊)

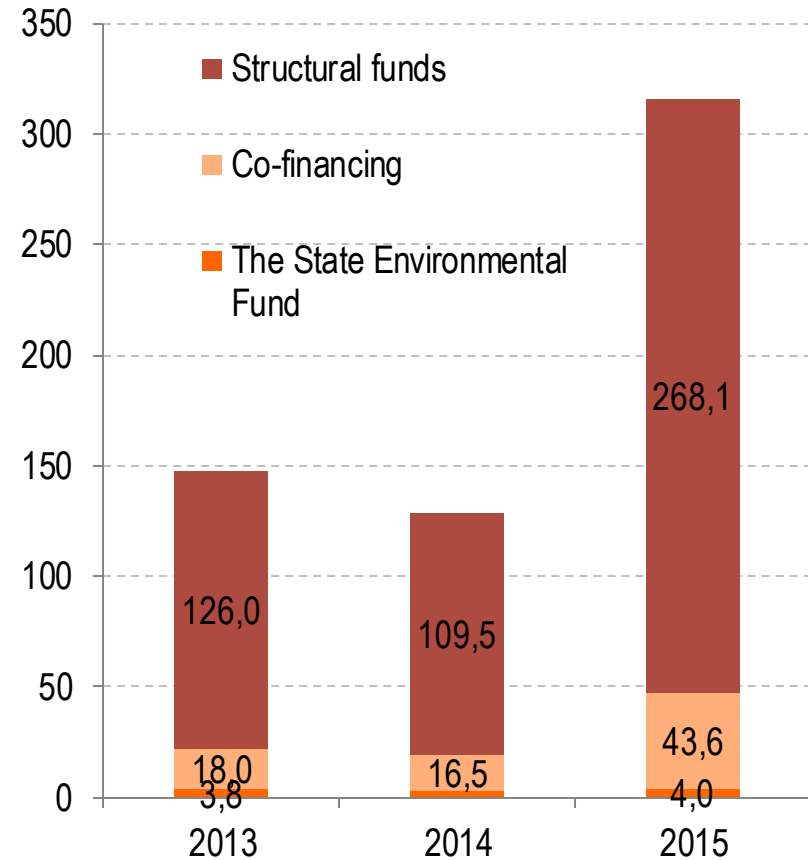
# Can expenditures on wastewater and waste supply

Central government expenditures on wastewater and management, (as % of GDP), 2014



Source: Eurostat

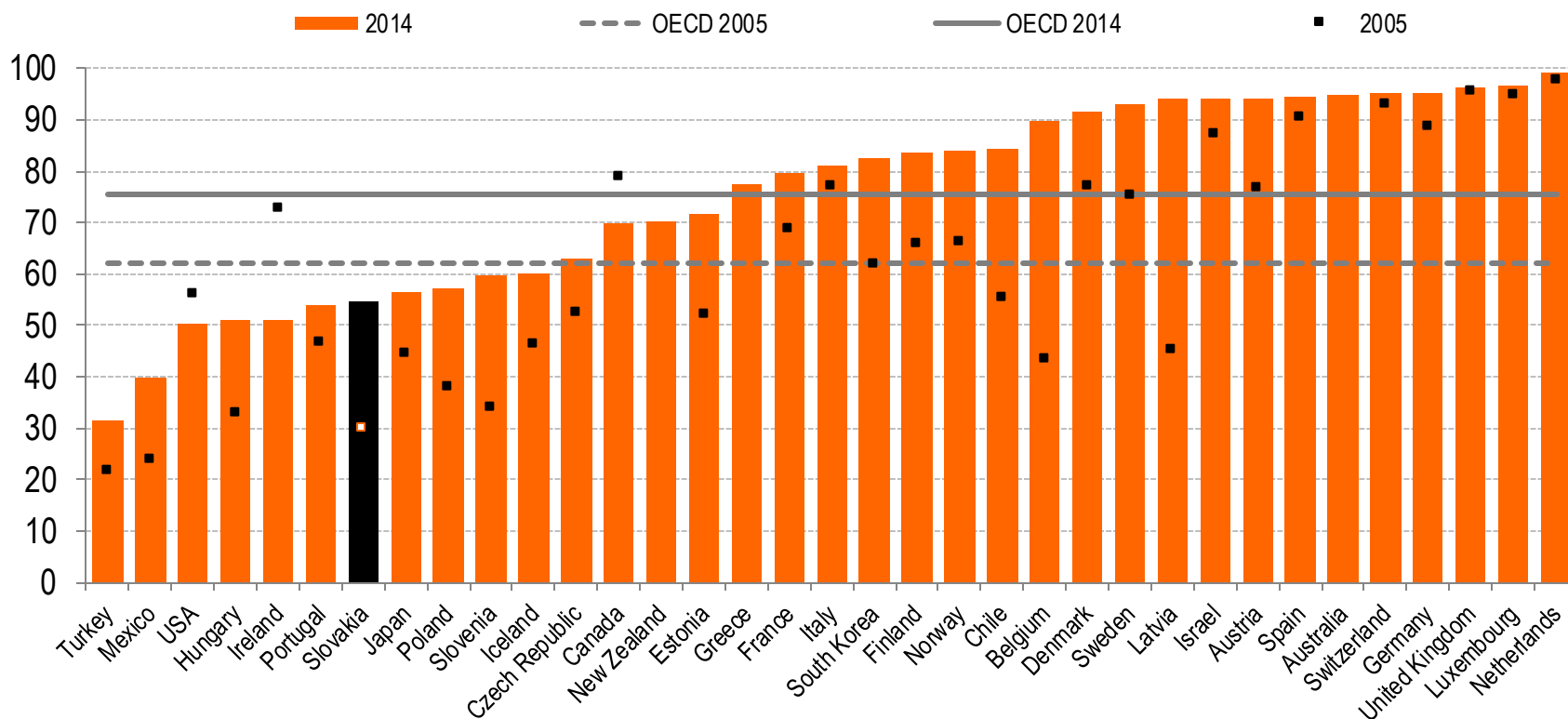
Expenditures on wastewater and water supply (mil. eur)



Source: RIS

# deliver better results?

Wastewater treatment level weighted by connection to wastewater treatment rate, %, 2014



Source: EPI

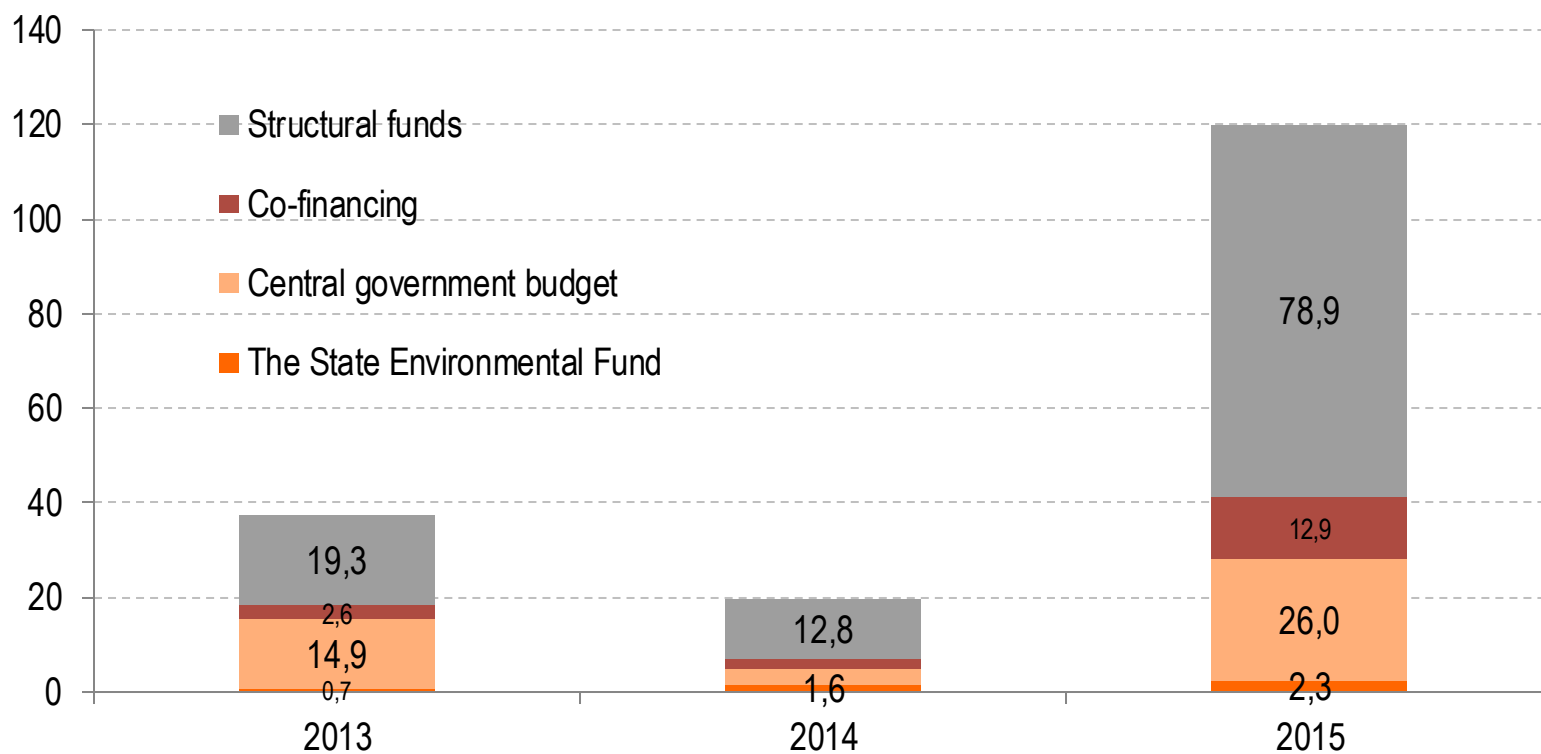




# Assessed indicators

- Population connected to urban wastewater collecting and treatment systems
- Wastewater production
- The number of newly constructed / renovated wastewater treatment plant
- Length of new potable water pipelines
- EUR per capita, EUR per RM of pipelines according to similar conditions

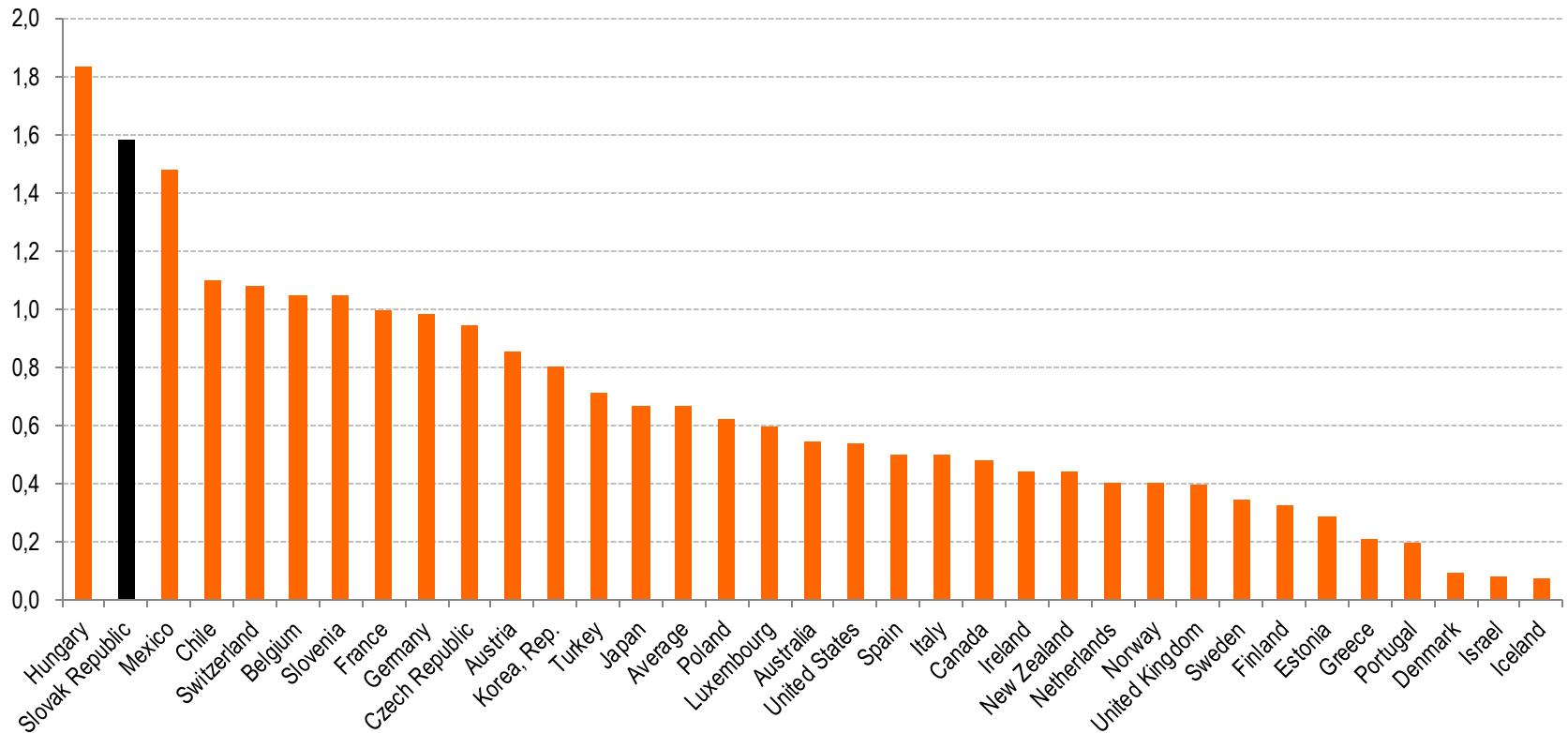
# Flood control expenditures focus mostly on dams or barriers



Source: EPI

# because flood risk seems to be too high in Slovakia

Population in the risk of the floods per 1 000

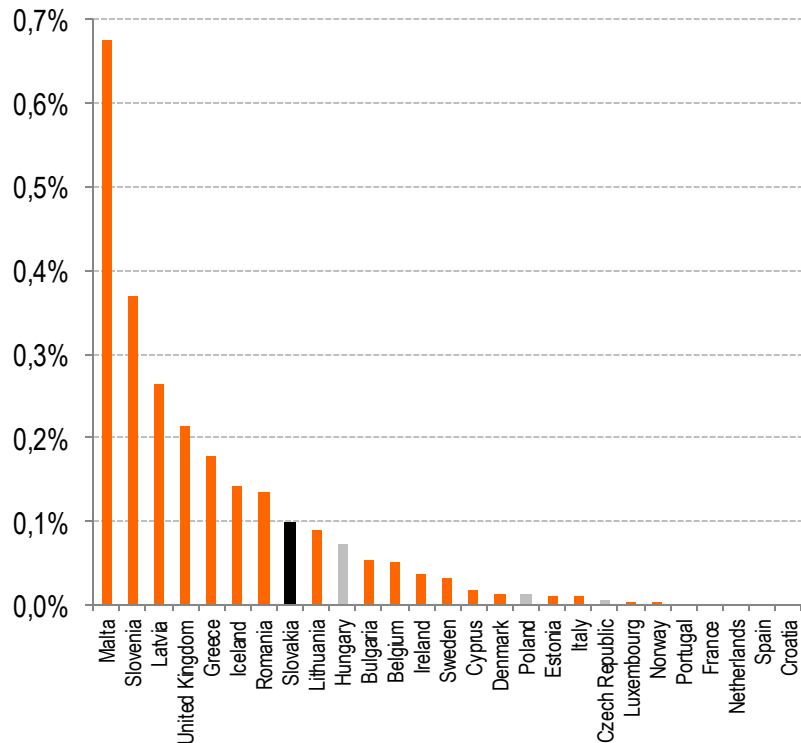


# Assessed indicators

- The frequency of flooding across Slovakia and Europe
- The area of territory with flood protection
- The number of habitants protected from flooding
- Damage averted per euro invested in flood protection
- Euro per investment in floods protection

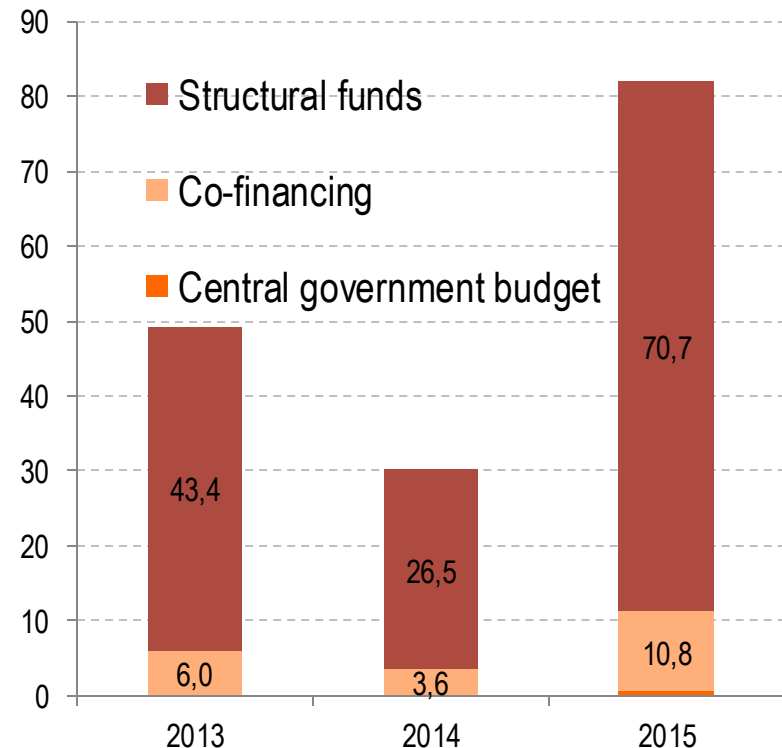
# Despite the investments in waste management

Central government expenditures as % of GDP, 2014



Source: Eurostat

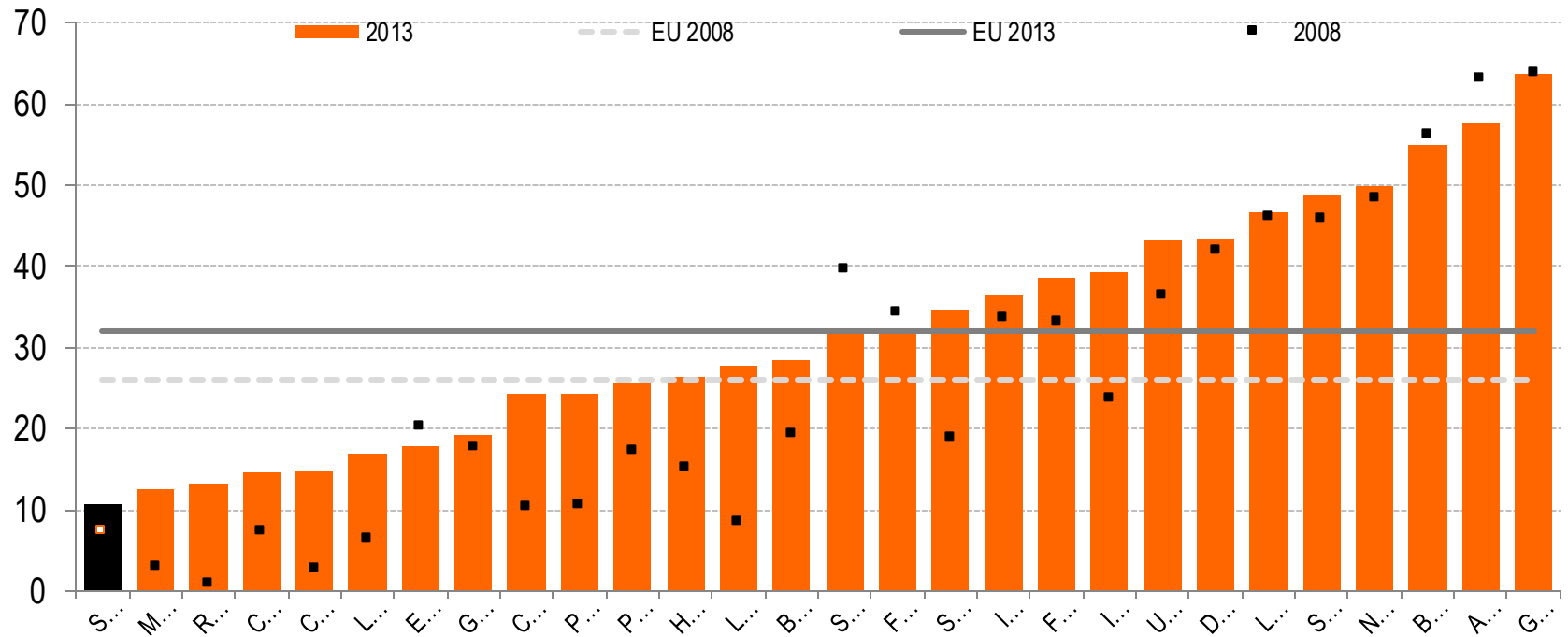
Expenditures on waste management, mil. eur



Source: RIS

# we still landfill too much and almost dont recycle

Recycling rate of municipal waste, %



Source: Eurostat

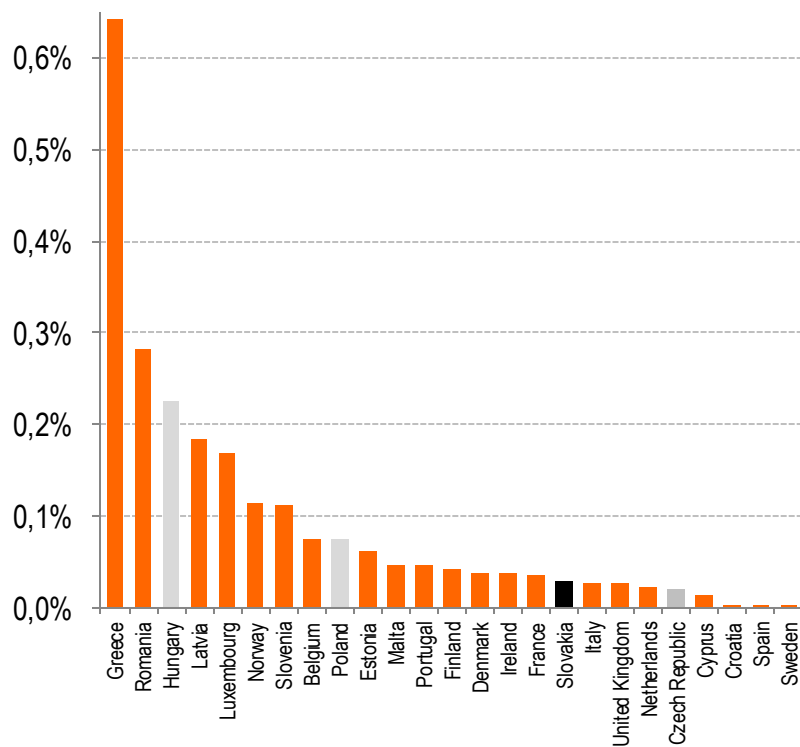


# Assessed Indicators

- Waste generation on international as well as on districts level
- Amount of waste generated per capita
  
- Amount of waste sent to landfill or to the incineration plant
- Fees and charge in waste management
  
- The efficiency of waste separation
- Euro per tonne of recycled and recovered waste

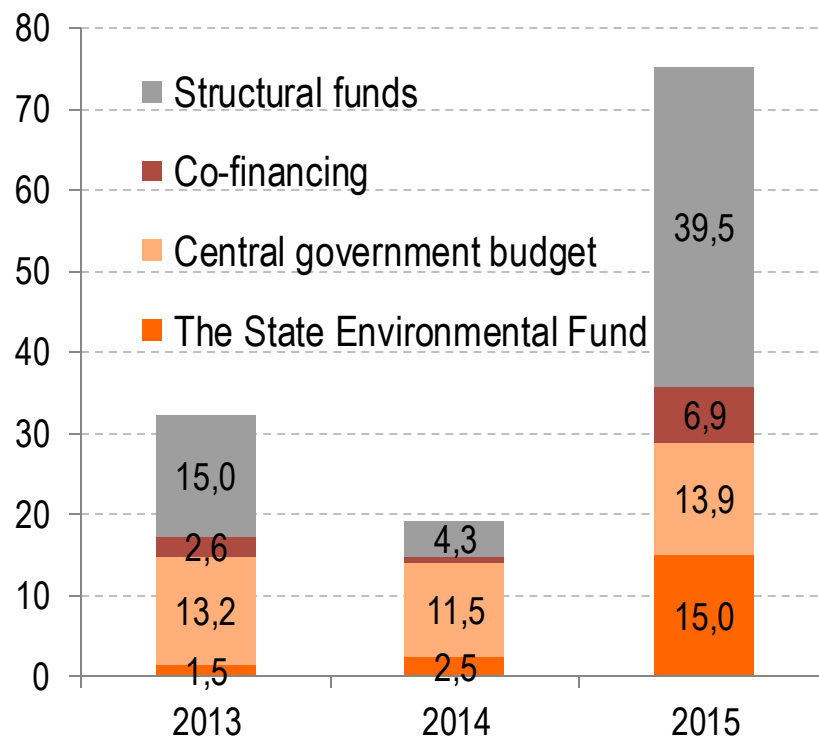
# Spending on air protection and climate

Expenditures as % of GDP, 2014



Source: Eurostat

Expenditures on air protection and climate regulation, M. €

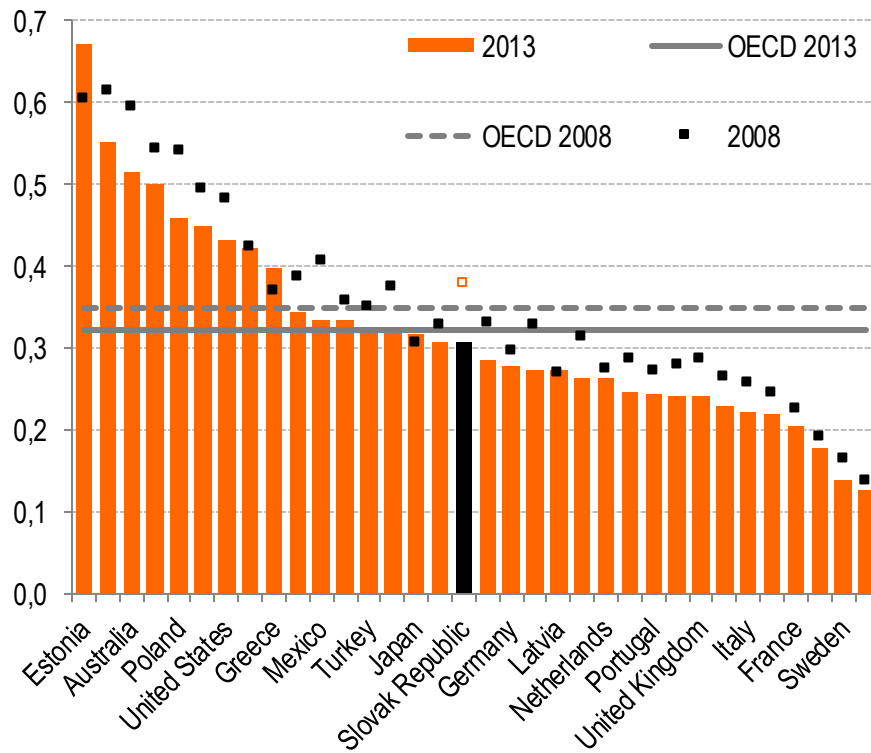


Source: RIS



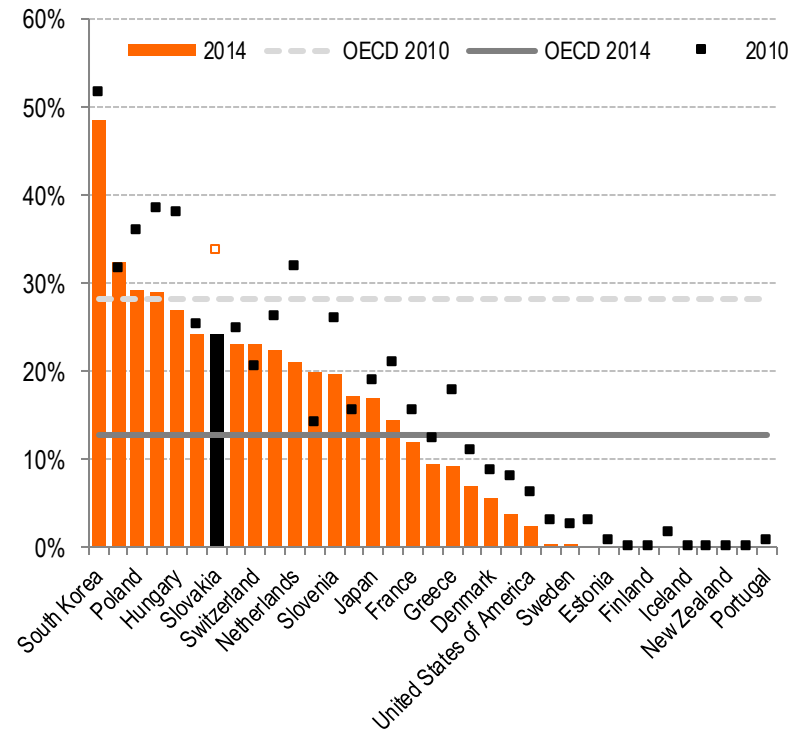
# could have had a positive effect

Total Greenhouse gases per GDP



Source: OECD

Proportion of the population exposed to PM2.5



Source: EPI

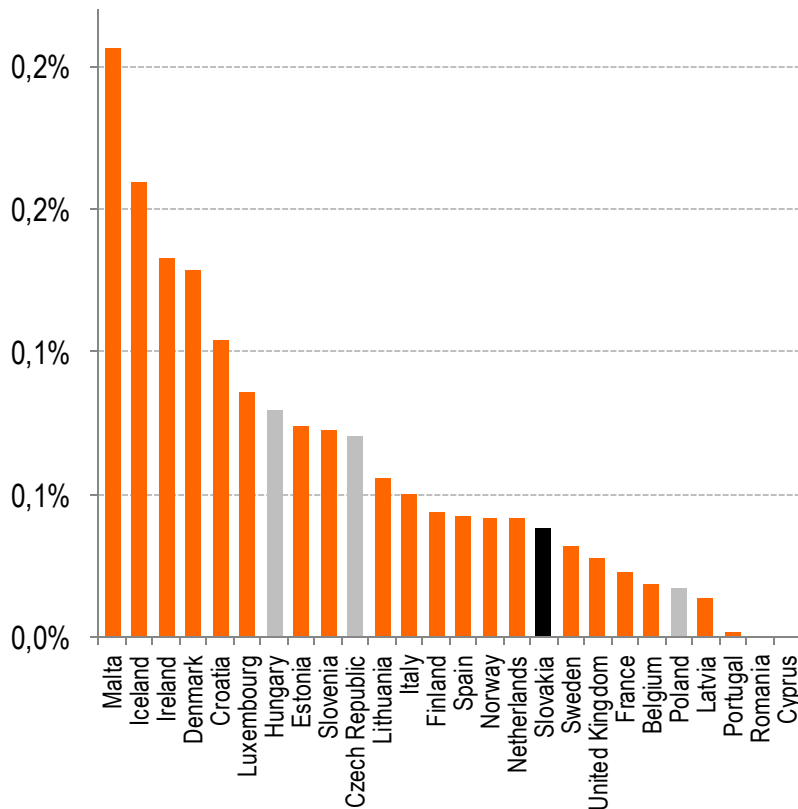


# Assessed indicators

- The amount of discharge pollutants loads by Slovak districts and countries
- The share of renewable energy resources
- Share of green and blue urban areas in cities
- Air pollution charge
- The cost of reduction
- The amount of premature deaths
  
- The efficiency of reduction

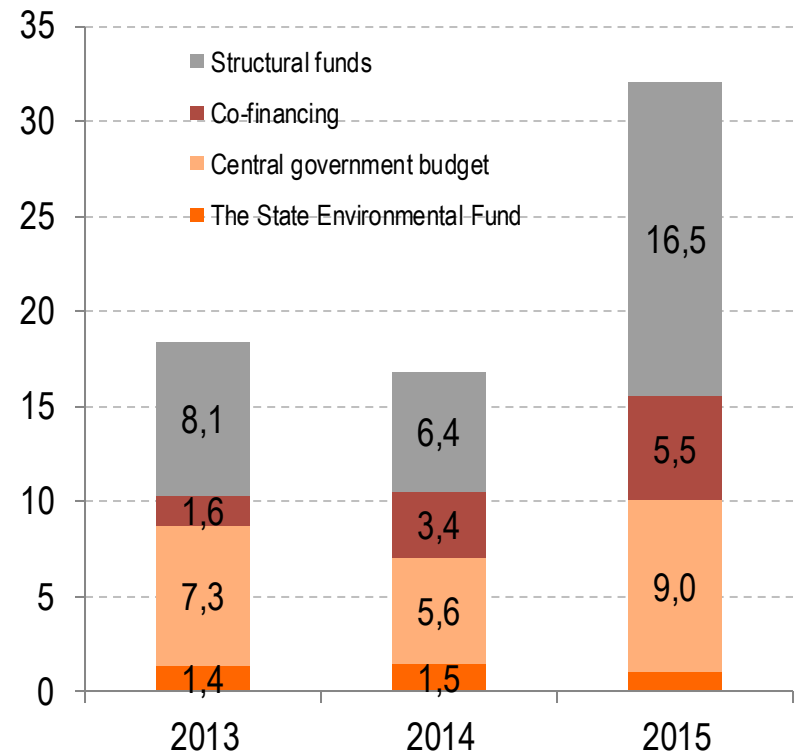
# Nature protection expenditures are average

Central government expenditures on nature protection as % of GDP, 2014



Source: Eurostat

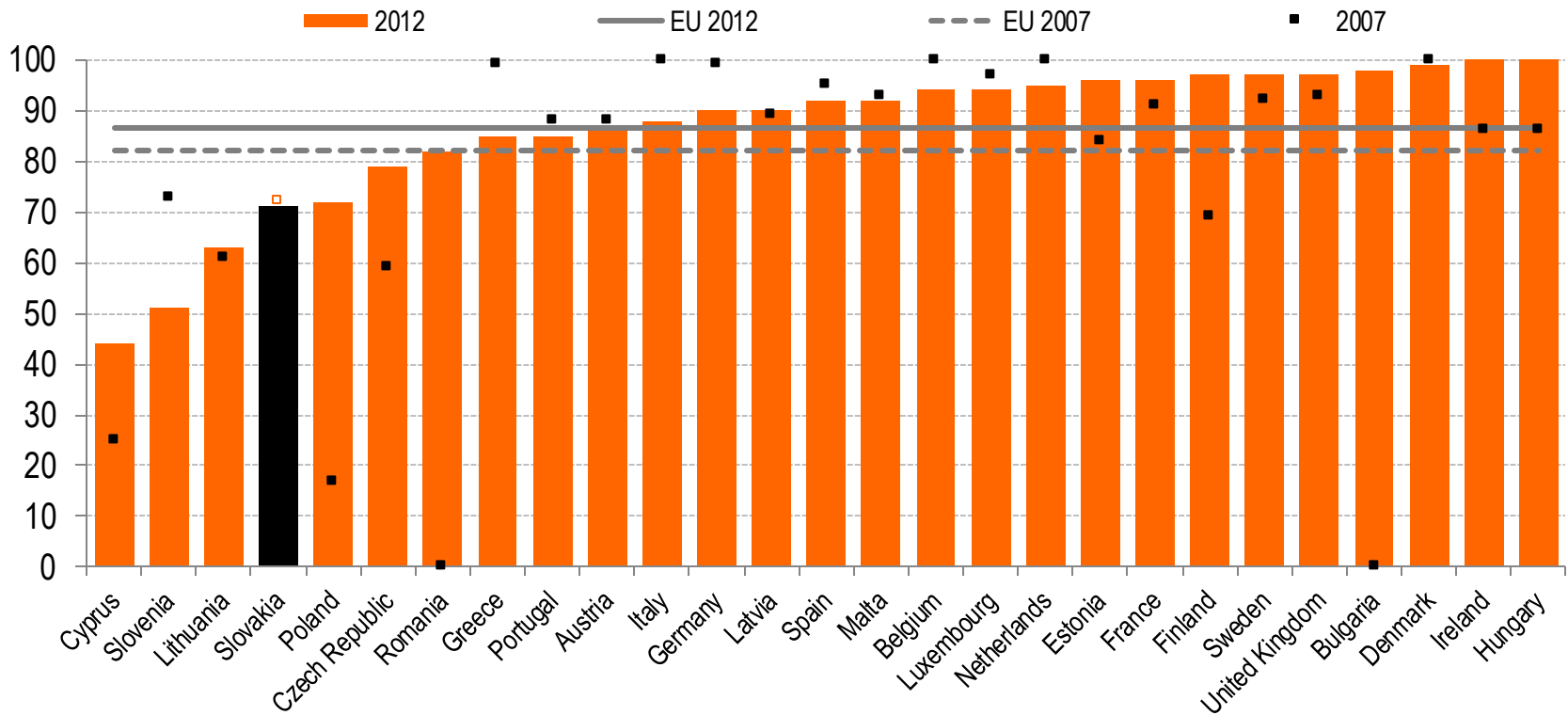
Expenditures on Nature and Landscape Protection M.€



Source: RIS

# although not enough designated areas are protected

Sufficiency of sites designated under the EU Habitats directive, %



Source: Eurostat



# Assessed indicators

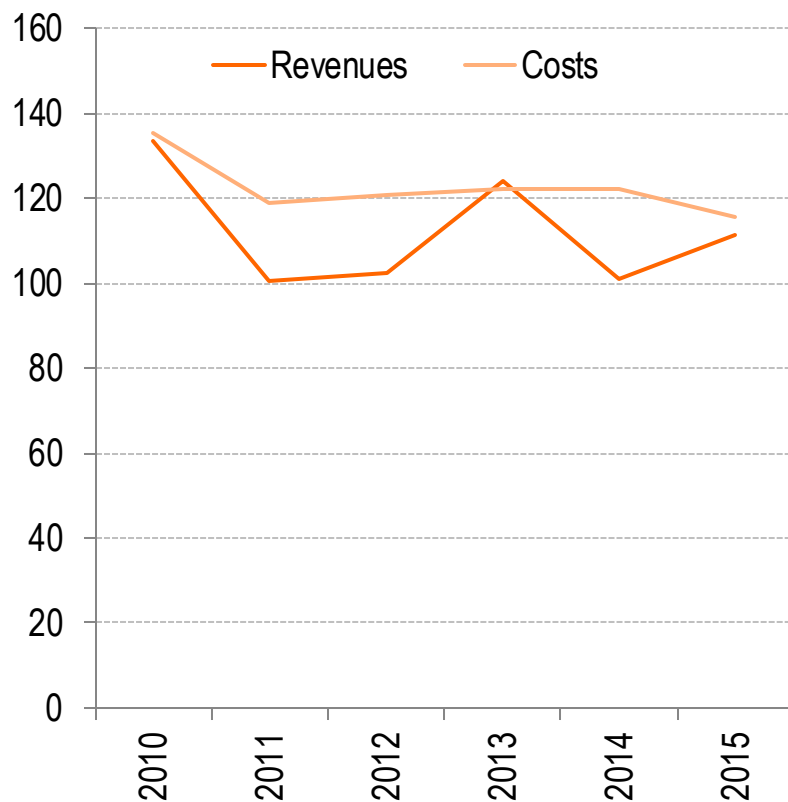
- Size of protected areas and their performance
- The number of protected species
- Forest cover loss
  
- The monetary value of species of fauna and flora
  
- Environmental and social benefits /costs

# I BCG audit in: **Slovak Water Management Enterprise, s.e.**

- Loss-making company
- Administration of watercourses, water engineering works and facilities constructed on them
- Supply of surface water to all sectors of economy
- Ensure navigability of river routes

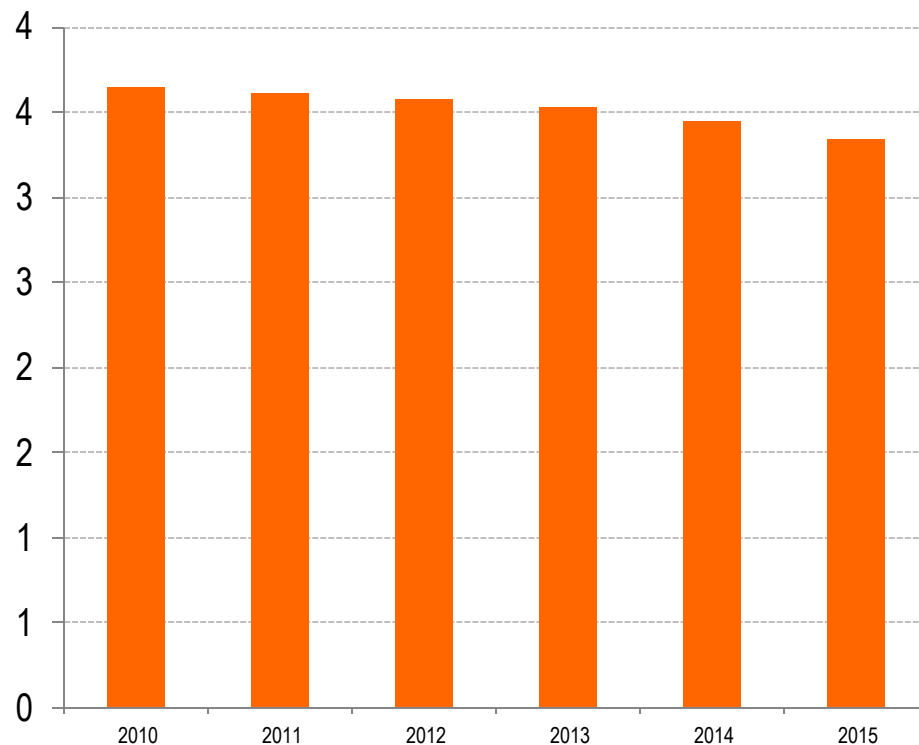
# Slovak Water Management Enterprise, s.e.

Financial results, mil. eur



Source: Annual yearbook of SVP, š.p. 2010 - 2015

Annual average number of employees, thousands



Source: Annual yearbook of SVP, š.p. 2015



Thank you for your attention.