Overall trends in waste generation and management in Europe

Özgür Saki European Environment Agency





- An EU institution located in Copenhagen since 1994
- Provides information on the state of environment, trends and outlook, to support policy making
- 32 member countries: EU-27, Turkey, Iceland, Norway, Liechtenstein and Switzerland
- 7 cooperating countries in the Western Balkan









Main EEA Activities on Waste

- Analysis and assessments on waste

- State and outlook of the environment report
- EEA publications on waste
- Indicators on waste
- Other analysis on waste (critical metals in WEEE, landfill taxes, transboundary shipments...etc.)

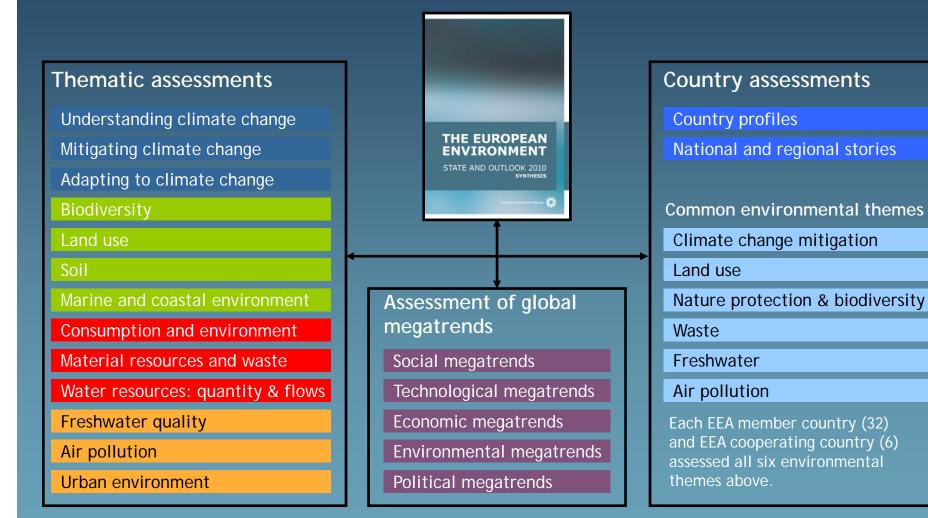
- Waste policy support

- Country fact sheets on waste policies
- Policy analysis reports
- Eionet workshops
- Support European Neighbourhood Countries
- Support DG Environment and countries on implementation of waste management plans and waste prevention programmes





What is SOER 2010?







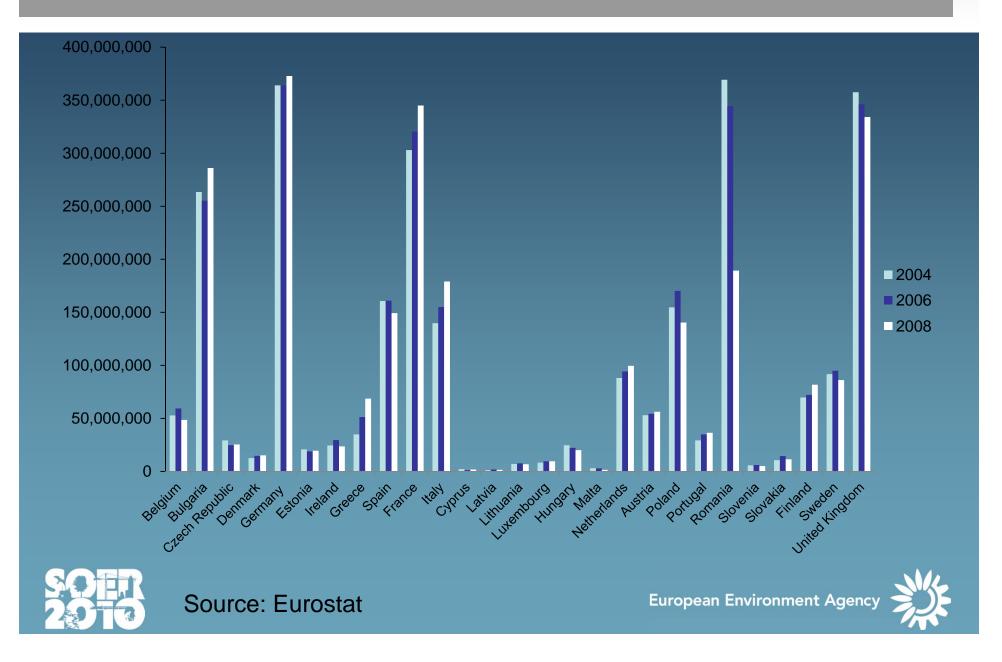
Policy question: Are we reducing the generation of waste?

- Total waste generation in the EU-27, Turkey, Norway, Iceland, Croatia: 2,7 billion tonnes (2008)
- Total municipal waste generation in the EU 27: 252 million tonnes (2010)
- 502 kg/cap municipal waste generation(2010), large differences between countries
- Total hazardous waste generation: 83 million tonnes (2008)

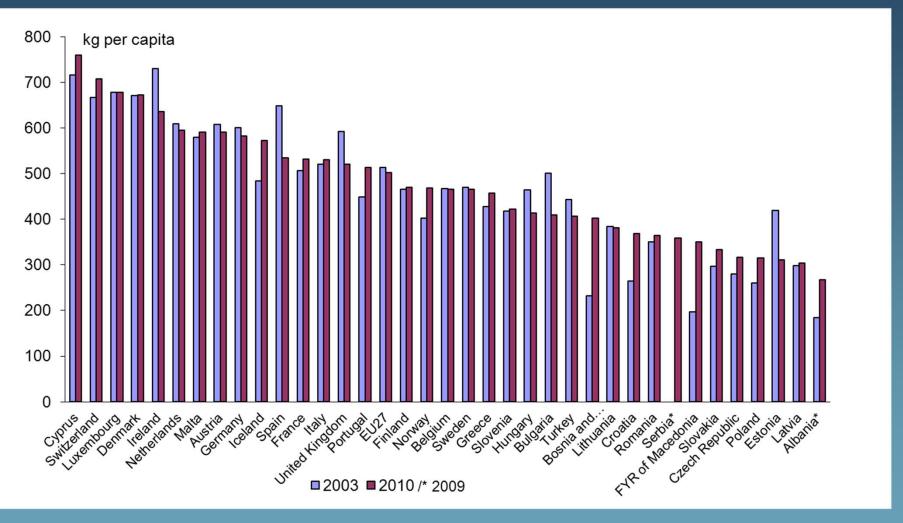




Total Waste Generation in Europe



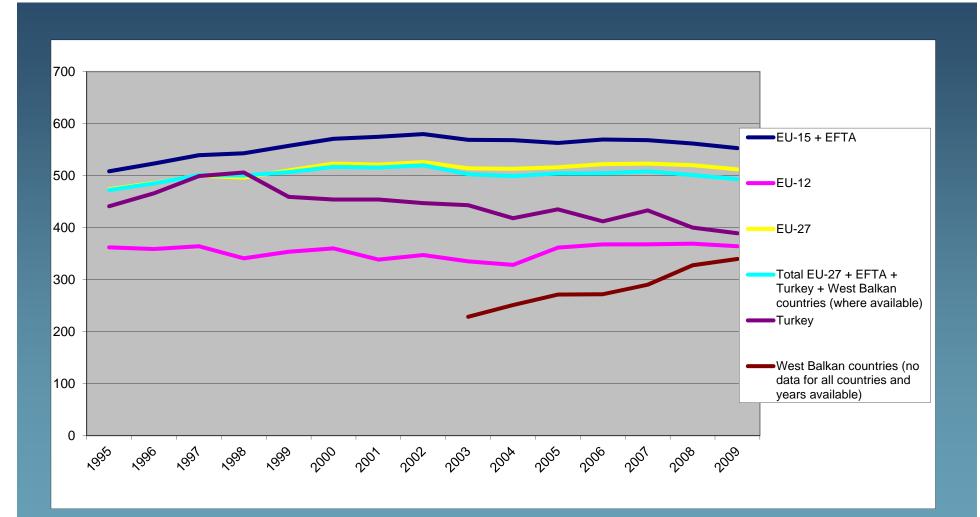
Generation of Municipal Waste in Europe kg/capita







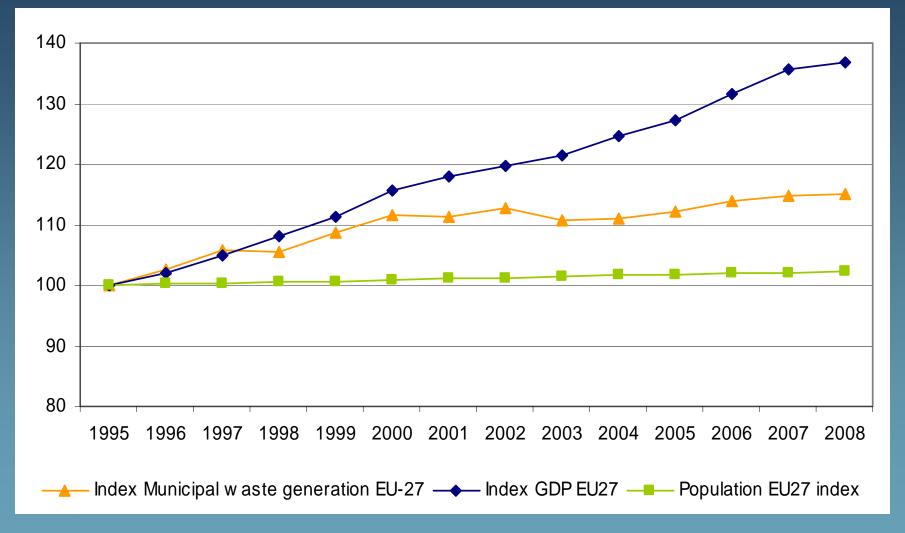
Municipal Waste Generation in Europe kg/capita (CSI 016)







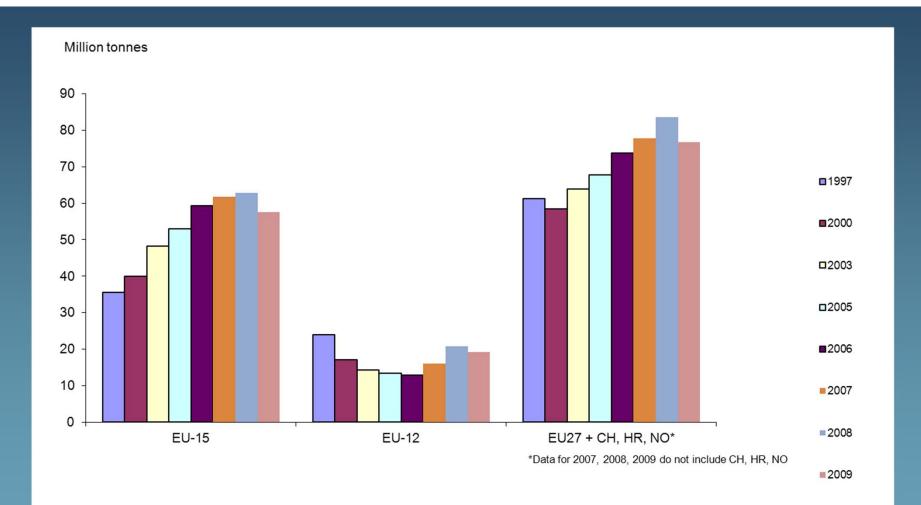
Trend in Generation of Municipal Waste in Europe







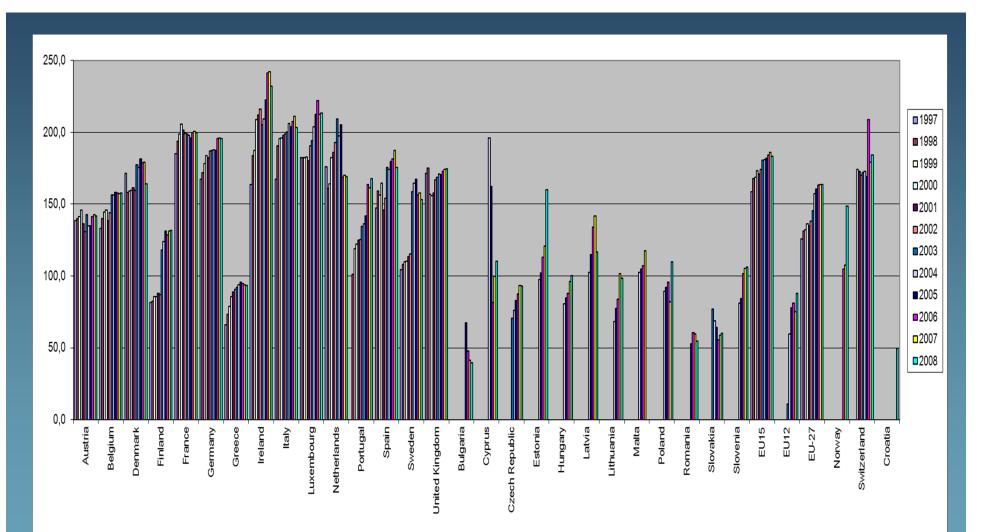
Hazardous Waste Generation in the EU







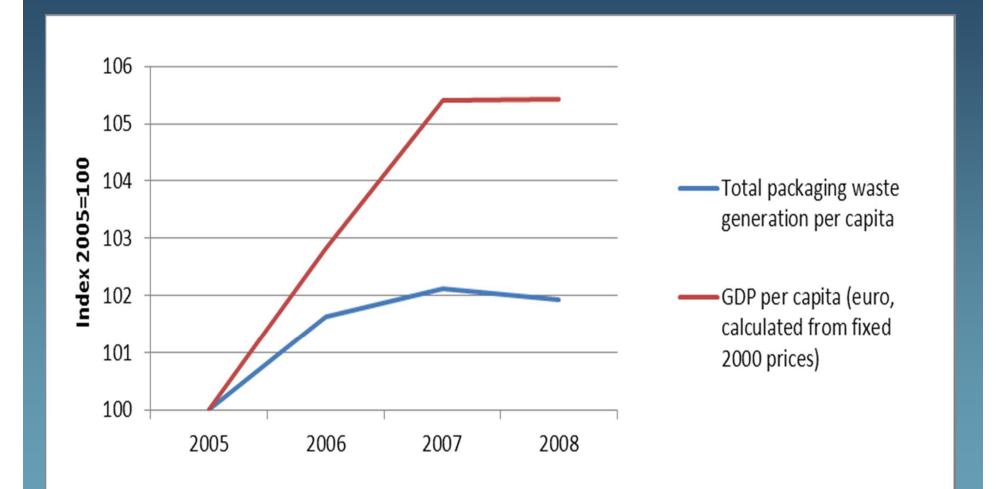
Packaging waste generation per capita by country (CSI 017)







Trend in Generation of Packaging Waste in Europe (CSI 017)







Thematic Strategy on Waste, 2005

The long-term goal is for the EU to become a recycling society, that seeks to avoid waste and uses waste as a resource.

(Thematic Strategy on prevention and recycling of waste, 2005)





Recycling Targets

	Year	Recovery targets	Recycling targets	Collection targets
Packaging waste	2008	60%	55%	
	2006	85% incl. Reuse	80% incl. reuse	100%
End-of-Life Vehicles	2015	95% incl. Reuse	85% incl. reuse	100%
Waste Electrical and Electronic Equipment	2006	70 – 80 % (differs acc. to WEEE categories)	50 – 80 % incl. reuse (differs acc. to WEEE categories)	Min. 4 kg per inhabitant per year
	2012			25%
Batteries	2016			45%
Batteries, lead acid and accumulators	2011		50 – 75% efficiency (different targets for different battery types)	
Tyres	2006	Zero landfill of tyres		
Landfill of biodegradable municipal waste	2006	Reduction to 75% of the amount generated in 1995		
	2009	Reduction to 50% of the amount generated in 1995		
	2016	Reduction to 35% of the amount generated in 1995		





Recycling Targets, WFD

	2015	Separate collection: At least for paper, plastic, metal and glass
New Targets	2020	recycling rates of 50% for household and similar wastes (at least paper, plastic, metal and glass)
	2020	70% for construction and demolition waste





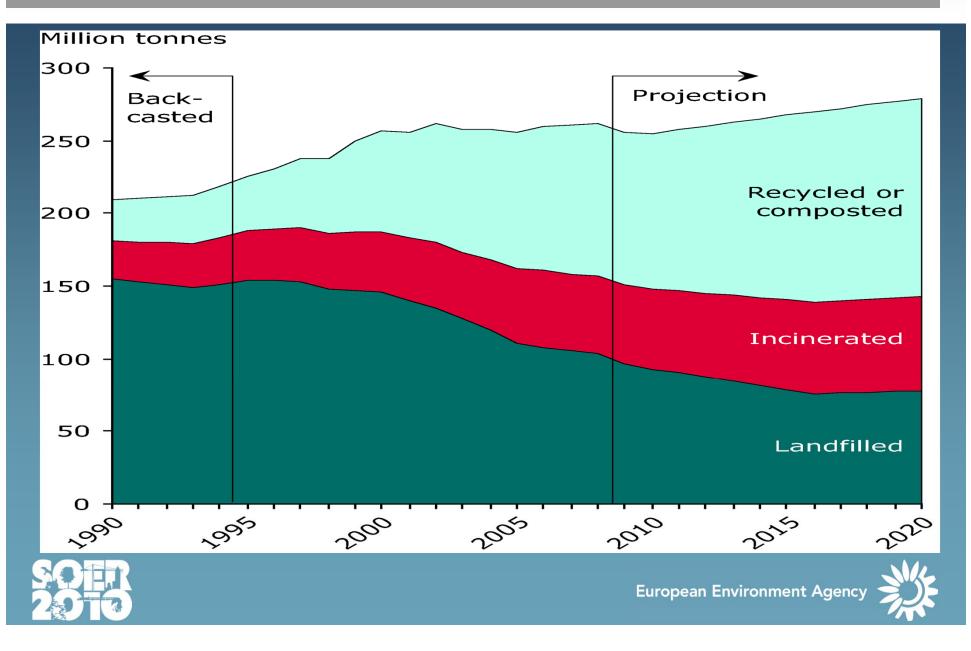
Policy question: How far the EU reached to be a recycling society?

- The management of waste has improved, with many countries recycling and recovering more, but more efforts are needed if the EU is to become a 'recycling society'.
- The majority of this waste (45 %) is still sent to landfill, but an increasing amount is recycled (42 %) or incinerated (5 %).
- Municipal waste landfilled 62 % (1995) > 38 % (2010)

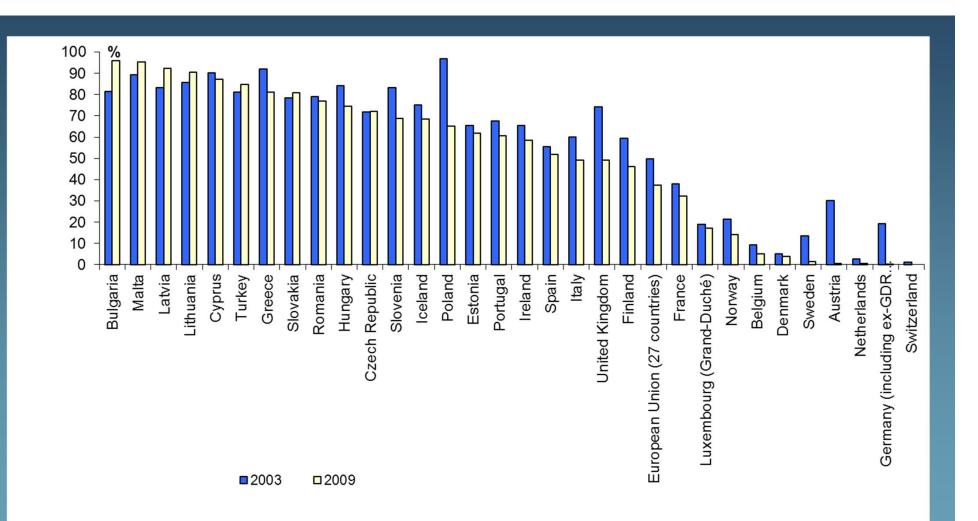




Trend and Outlook of Municipal Waste Management in Europe

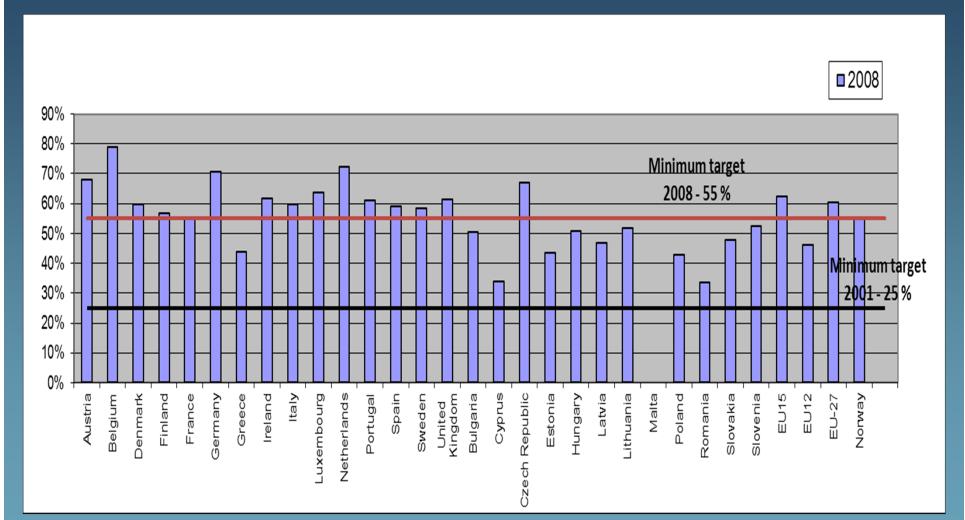


Landfilling of Municipal Waste by countries





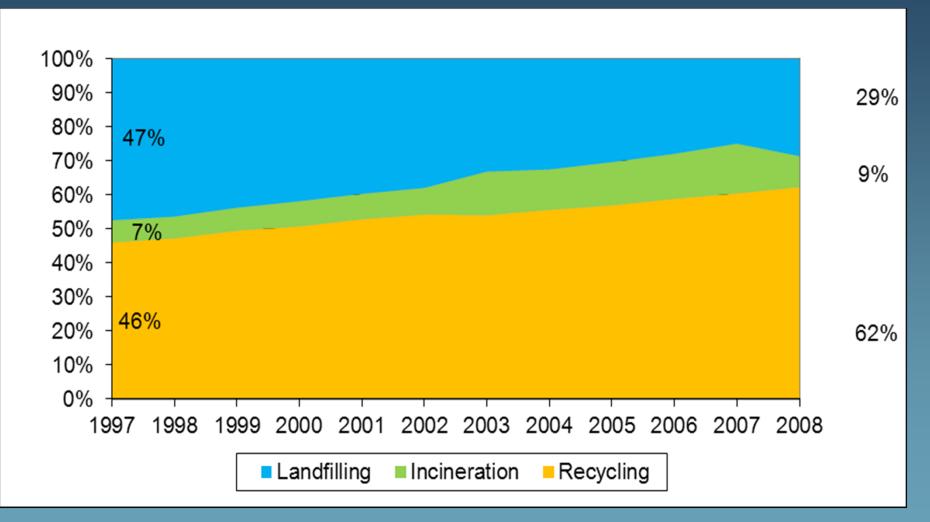
Average recycling rate of packaging waste in the EU is 61% (CSI 017)





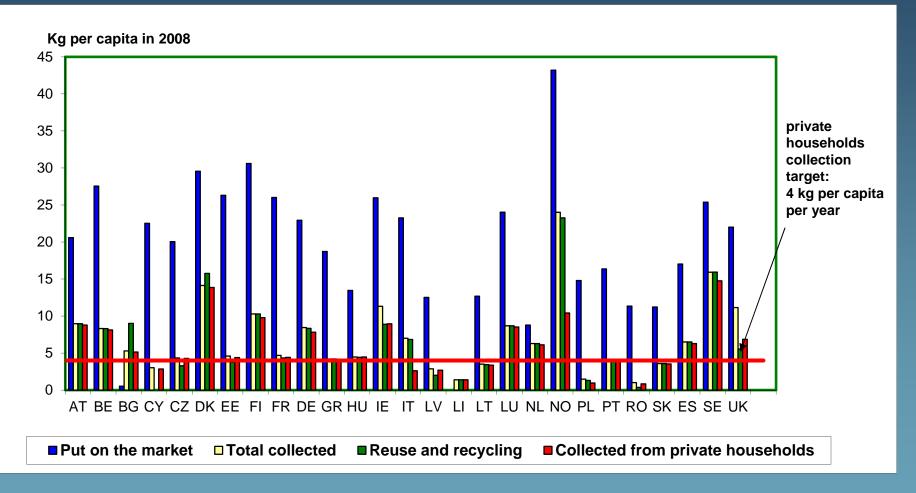


Packaging waste management, EU-15 (CSI 017)





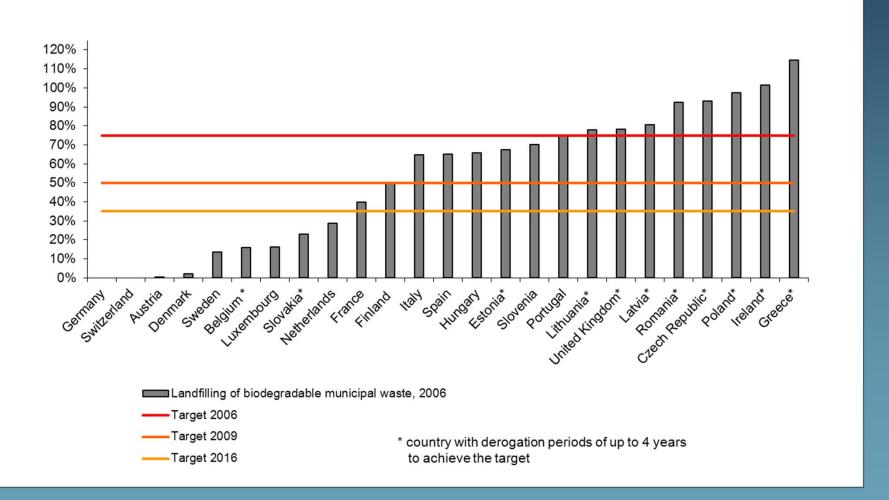
WEEE Management, 2008 (New indicator)







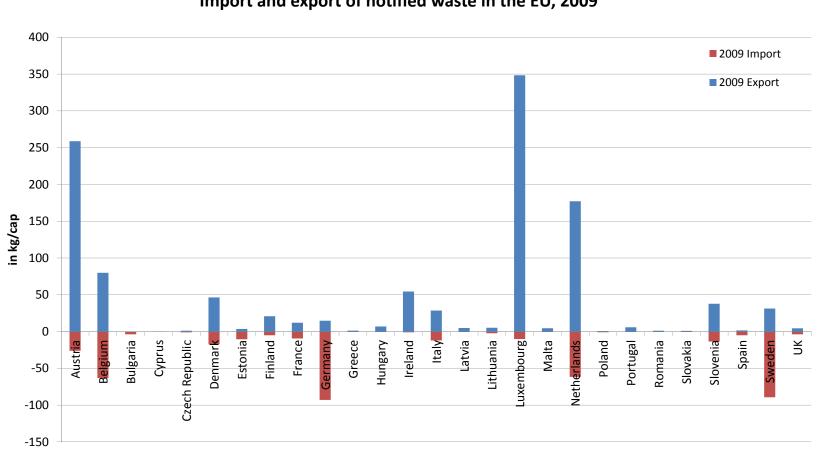
Landfill of BMW, 2006 (New indicator)







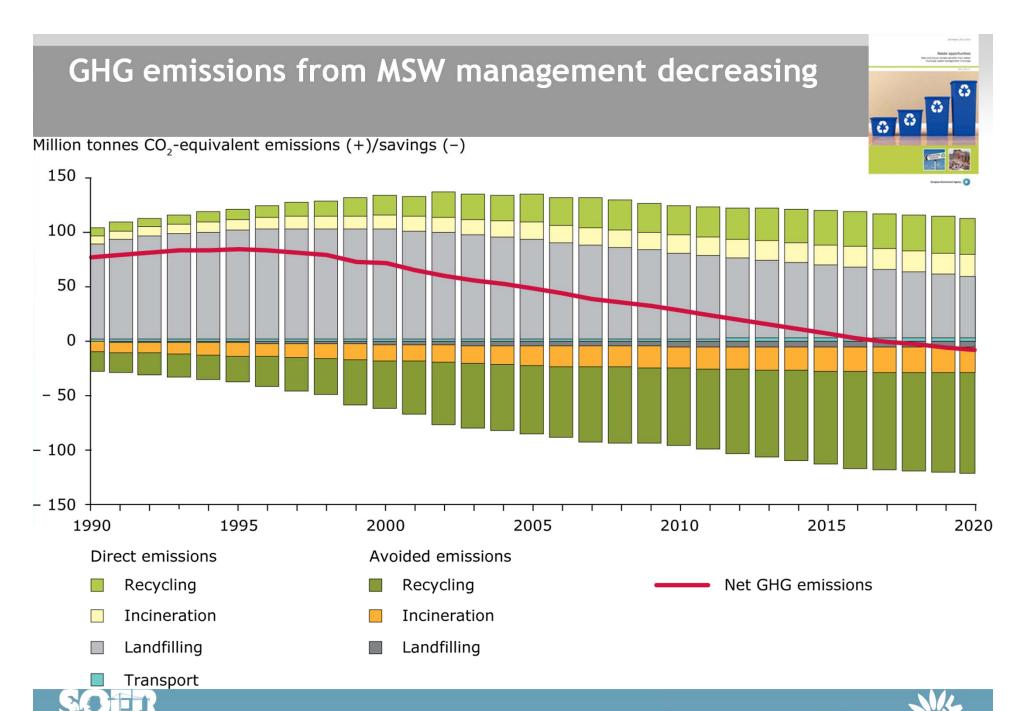
Transboundary shipments of waste kg/capita, 2009 (New indicator)



Import and export of notified waste in the EU, 2009

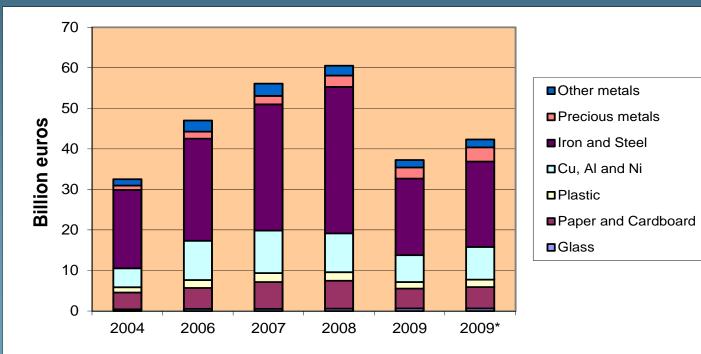






Total turnover of seven key recyclables

- The turnover of seven recyclables has almost doubled from EUR 32,5 billion in 2004 to EUR 60,3 billion in 2008.
- Due to the economic downturn the turnover of recycling declined sharply at the end of 2008 and in the first half of 2009 but seems to have recovered markedly since then.

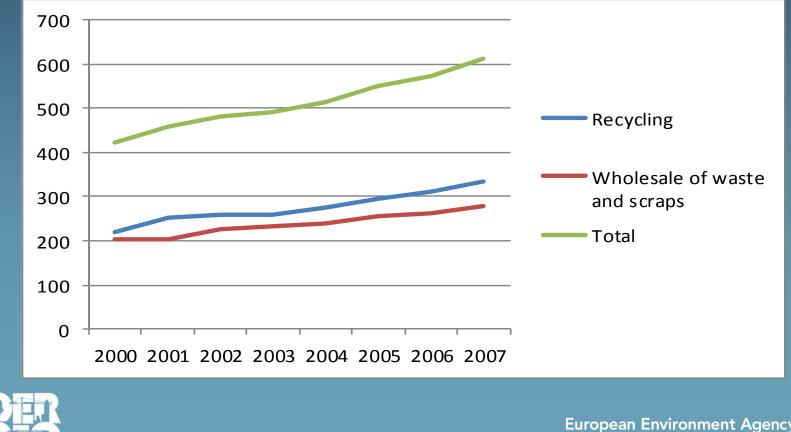






Persons employed in recycling activities in the EU, Norway and Switzerland per million inhabitants

 Overall employment related to materials recovery in Europe has increased steadily, from 422 inhabitants per million in 2000 to 611 in 2007, which is an increase of 45 %.





• Europe lacks geological stocks of these critical metals or has very limited reserves and therefore depends almost entirely on imports.

Demand and supply for the critical metals

Emerging technologies' demand for rare metals. Index compared to current production (100) 2006 450 2030 400 350 300 Index 250 200 150 100 50 0 Platinum Palladium Puthenium Galium Indur Gernanium Neodymium Cobalt Metal





Summary

- Waste generation is growing or stabilised
- Waste management is improving
- Large differences between countries in Europe
- Transboundary shipments of waste is increasing
- Environmental impacts from waste management is decreasing
- Better waste management also offers social and economic benefits





European Environment Agency

Thank you for your attention

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