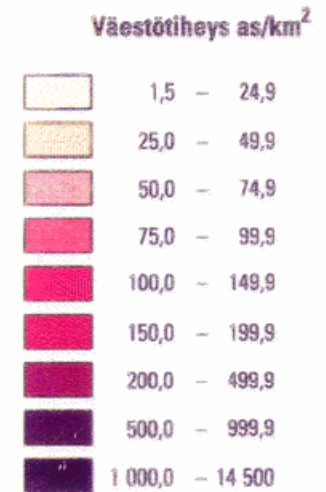
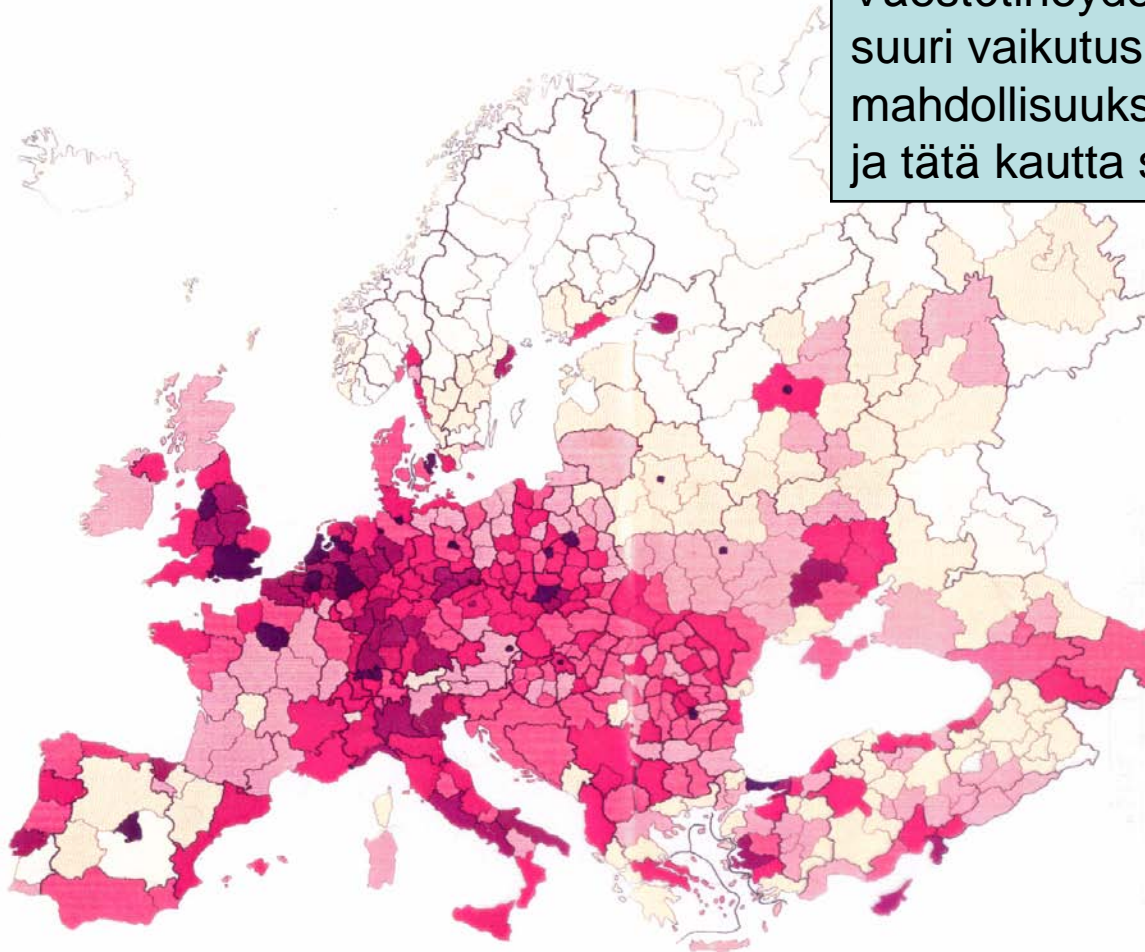
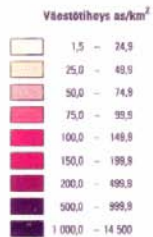


About the waste world in Finland

Main points in waste management
and landfilling in the beginning of
2000s

Euroopan väestötiheys alueittain

Väestötiheydellä ja etäisyyksillä suuri vaikutus taloudellisiin mahdollisuuksiin ja järkevyyteen ja tätä kautta strategialinjauksiin



Revised national waste plan for the period up to 2005

- Approved by Government on 14.8.2002
- Target, measures and instruments to prevent waste generation in all sectors
- Sectoral targets and measures for enhancement of waste management
- Target, measures and instruments for specific types of waste
- Not legally binding, but political signal

Waste Generation (2004)

Administrative authorities

- Ministry of the environment
- The Finnish Environment Institute
- Regional environmental centres
- Local authorities

Waste issues program of government: Vanhanen I and II

- Preventing municipal waste
- Improving material recovery and energy use
- Economical and technical procedures
- Separation of biowaste streams
- Safe disposal without harm to environment
- Improvement of landfill gas collection and energy use
- Expansion of producer responsibility
- Taxbased steering of packages waste
- Improved cleaning of contaminated soils

and II

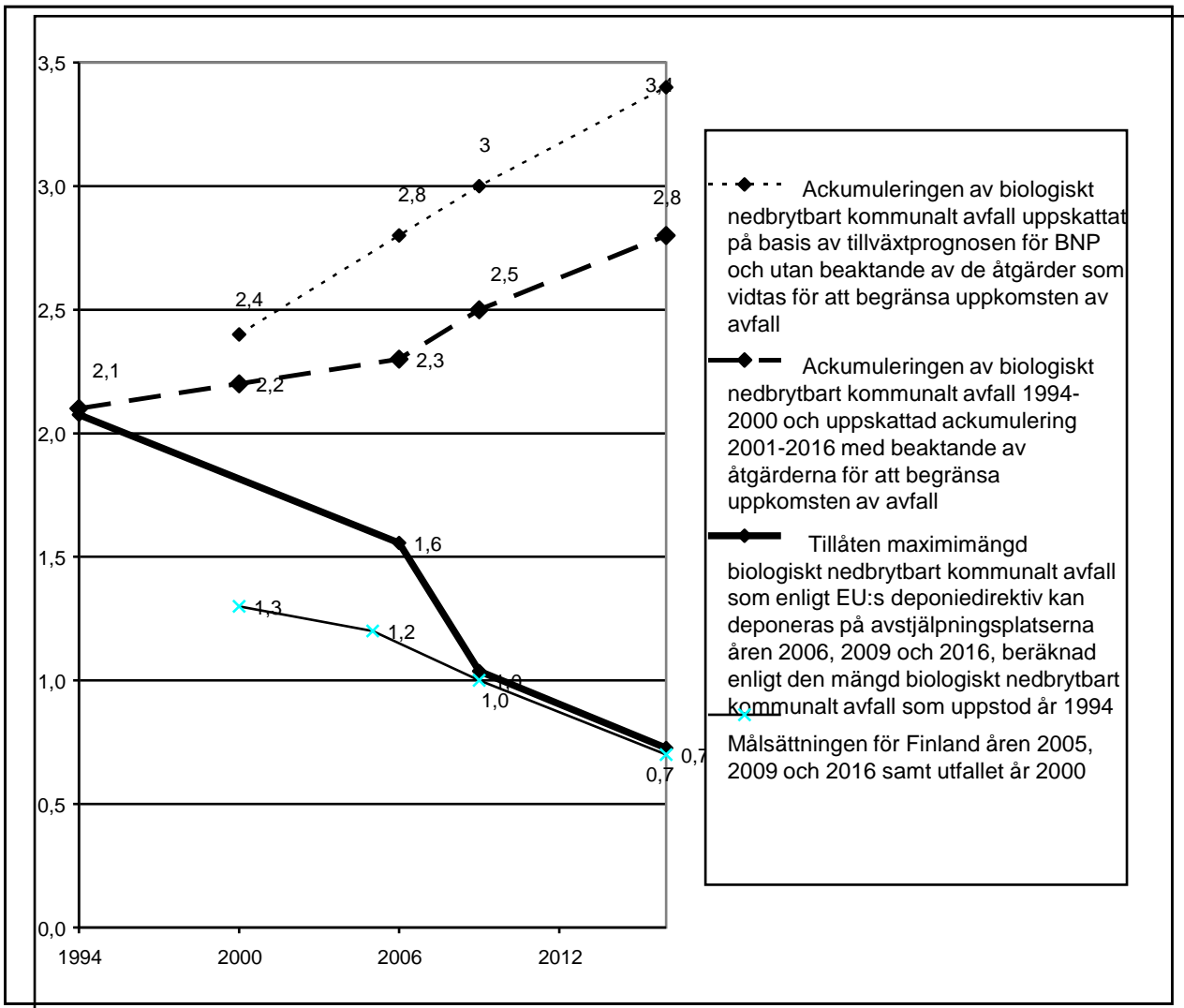
- Climate change: energy and climate strategy
- Biogas utilization, manure, municipal waste, biomaterial such as plant and animal waste. Subvented stable tariffs.
- Waste incineration
- Wood and peat energy
- New waste legislation.2007-2011
- Prevention and recovery
- Co-incineration

National strategy for biodeg waste

2.12.2004

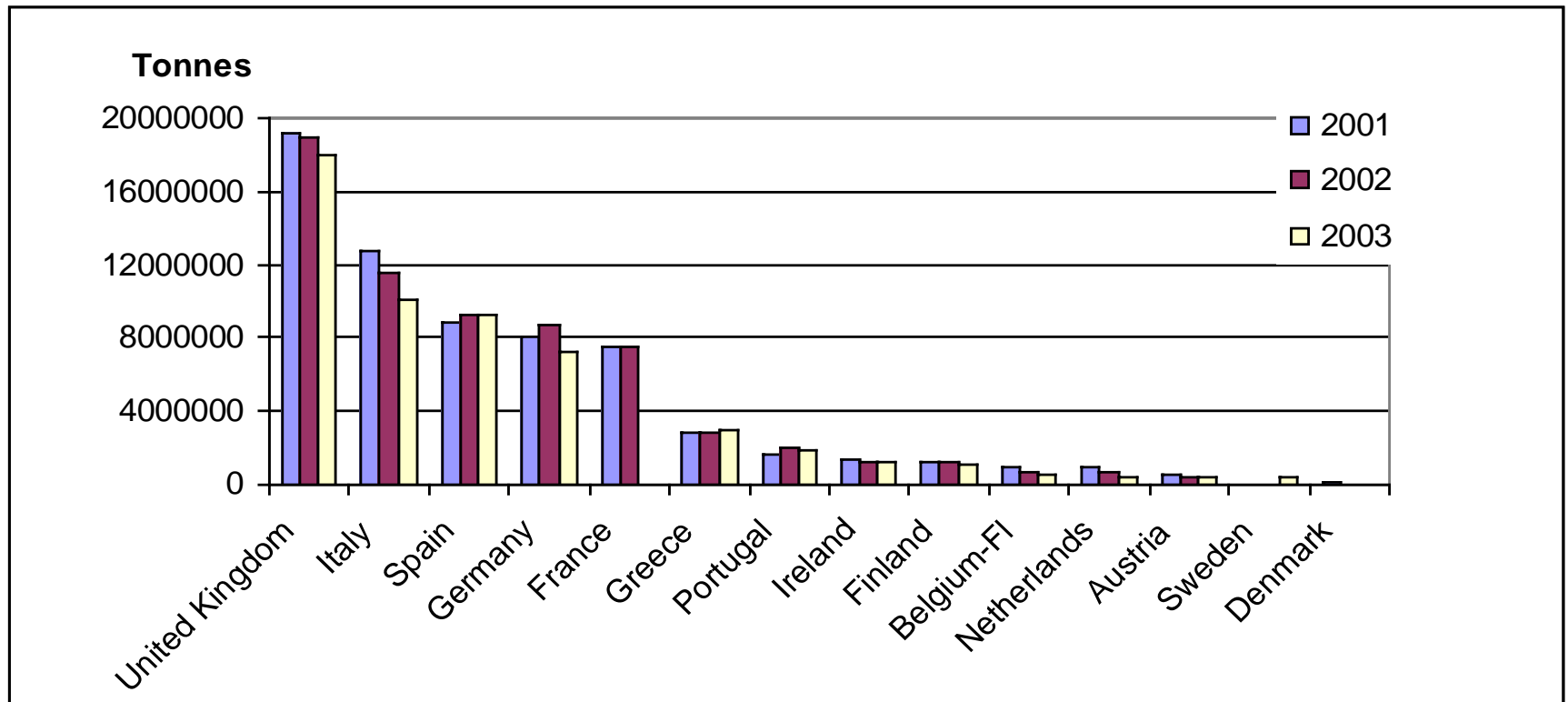
- Target such as Landfill directive
- 2009 under 40% and 2016 no more than 25 % of produced municipal waste

Bioavfall

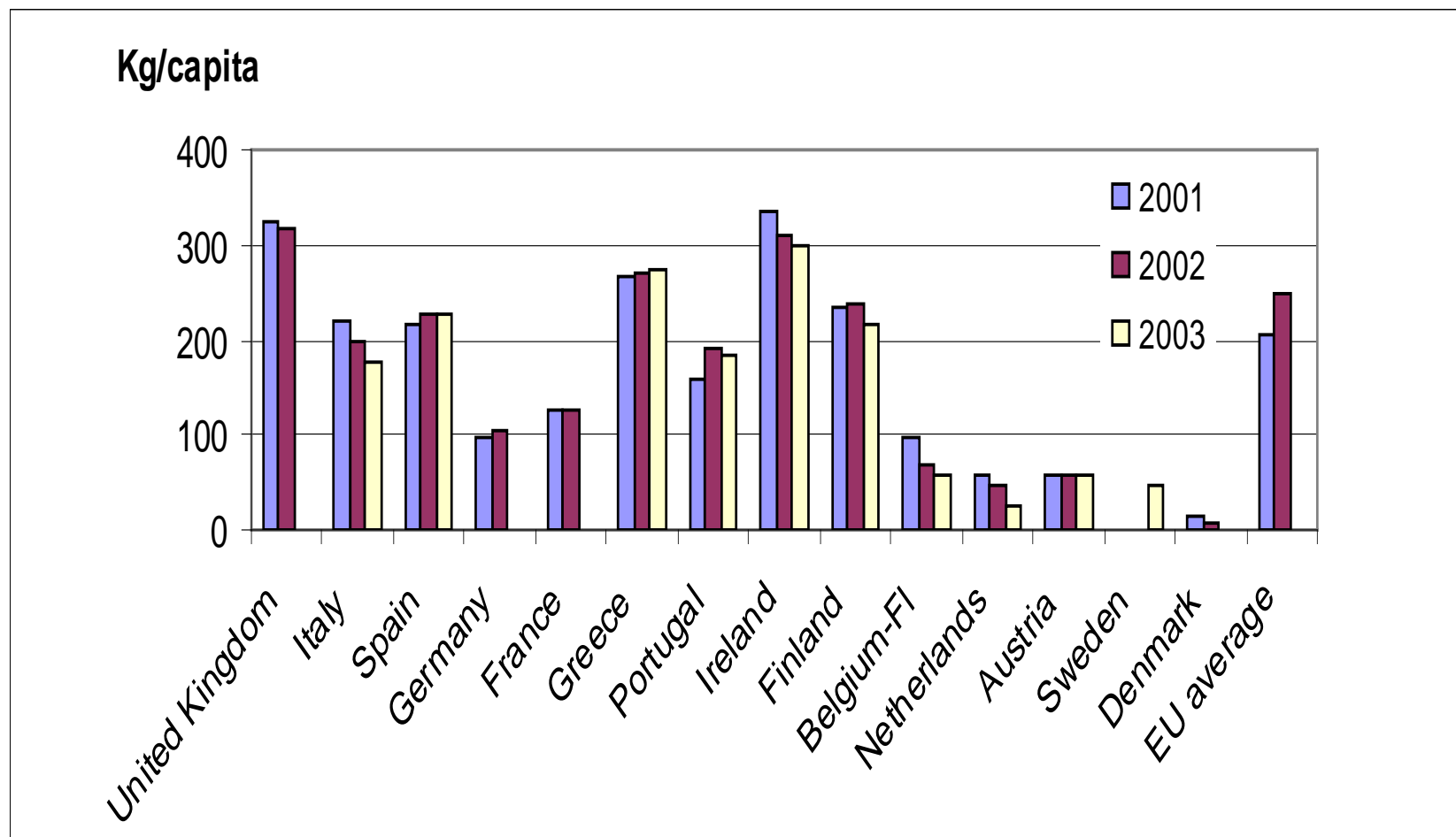


Art. 5 Strategy on biodegradable waste

- **Figure 2a. Tonnes of biodegradable municipal waste Landfilled, 2001-2003**

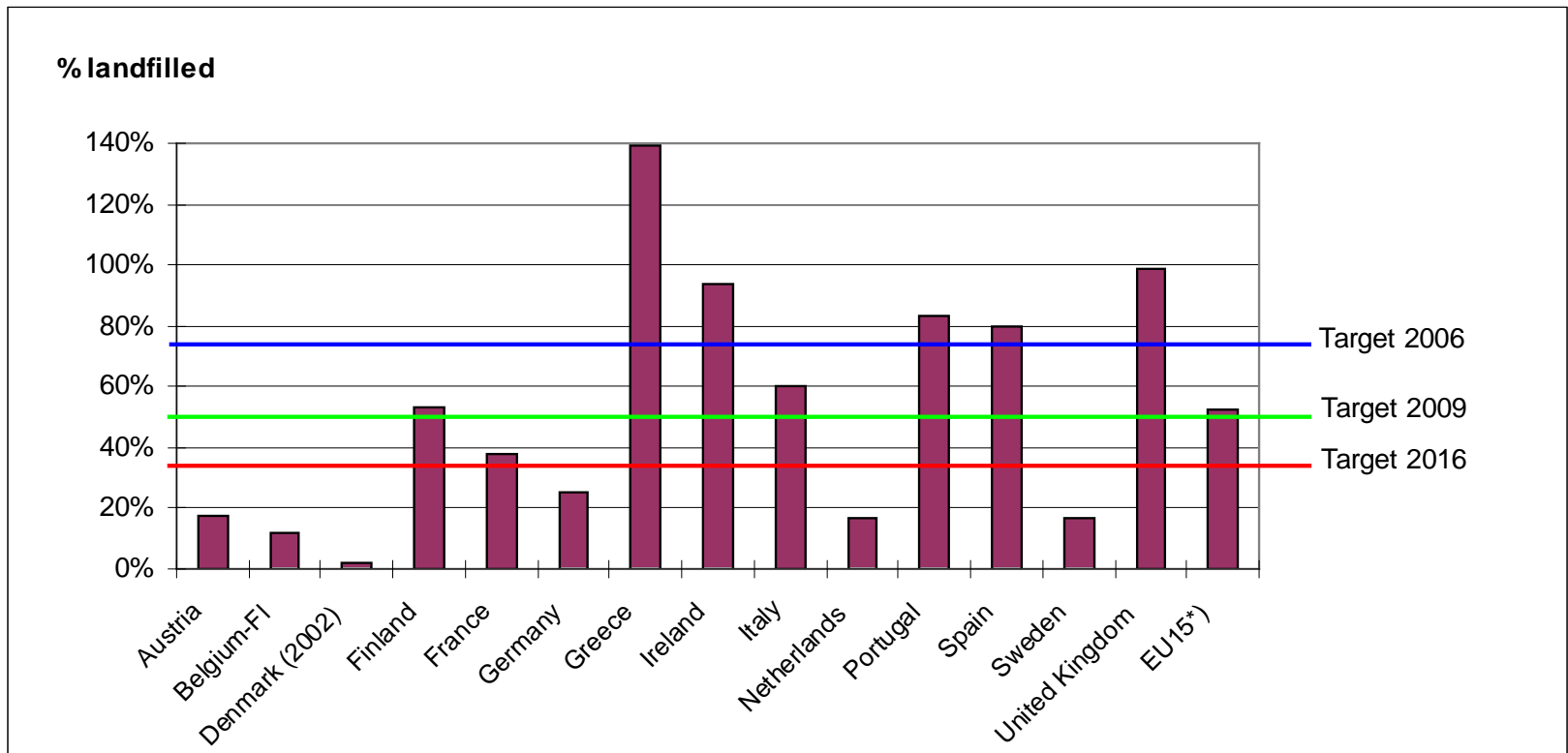


Art. 5 Strategy on biodegradable waste



Art. 5 Strategy on biodegradable waste

- **Figure 3. Biodegradable municipal waste distance to target, 2002**
- (Excluding Luxembourg and the Belgium regions Wallonia and Brussels)



WASTE LEGISLATION

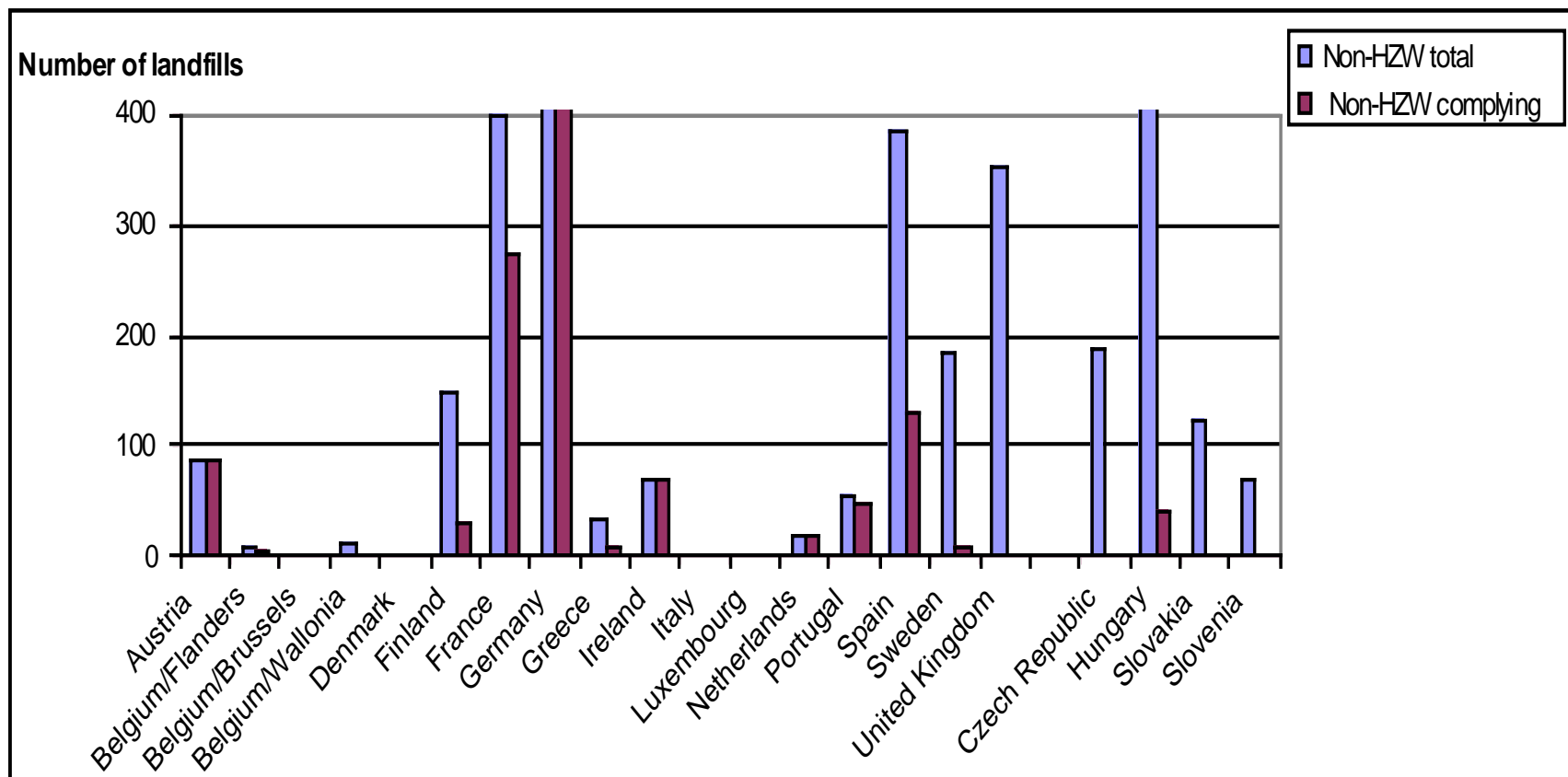
- Implemented EU-legislation with few national flavours and spices
- Environmental act and decree 2000
- Waste act and decree 1993
- Hazardous waste legislation on list, pack and labels
- Landfill and incineration decrees
- 16 waste type specific pieces of legislation
- Waste oil charge act 1986

Waste policies

- Prevention
- Polluter pays
- Producer responsibility
- The precautionary principle
- Proximity principle
- Self-sufficiency principle
- Fewer landfills
- 2006 176 landfills 180 waste plants
- 1.11.2007 old bottoms out of use

Existing landfills

- Landfills for non-hazardous waste; total and complying with the directive



National waste policy to the year 2016 (proposed)

- Waste prevention relies increasing material efficiency
- Recycling to be advanced by increasing demand for recycled materials, encouraging municipal waste sorting, and through financial incentives
- Waste toxicity to be prevented mainly via chemical policies
- Greenhouse gases from waste management to be decreased

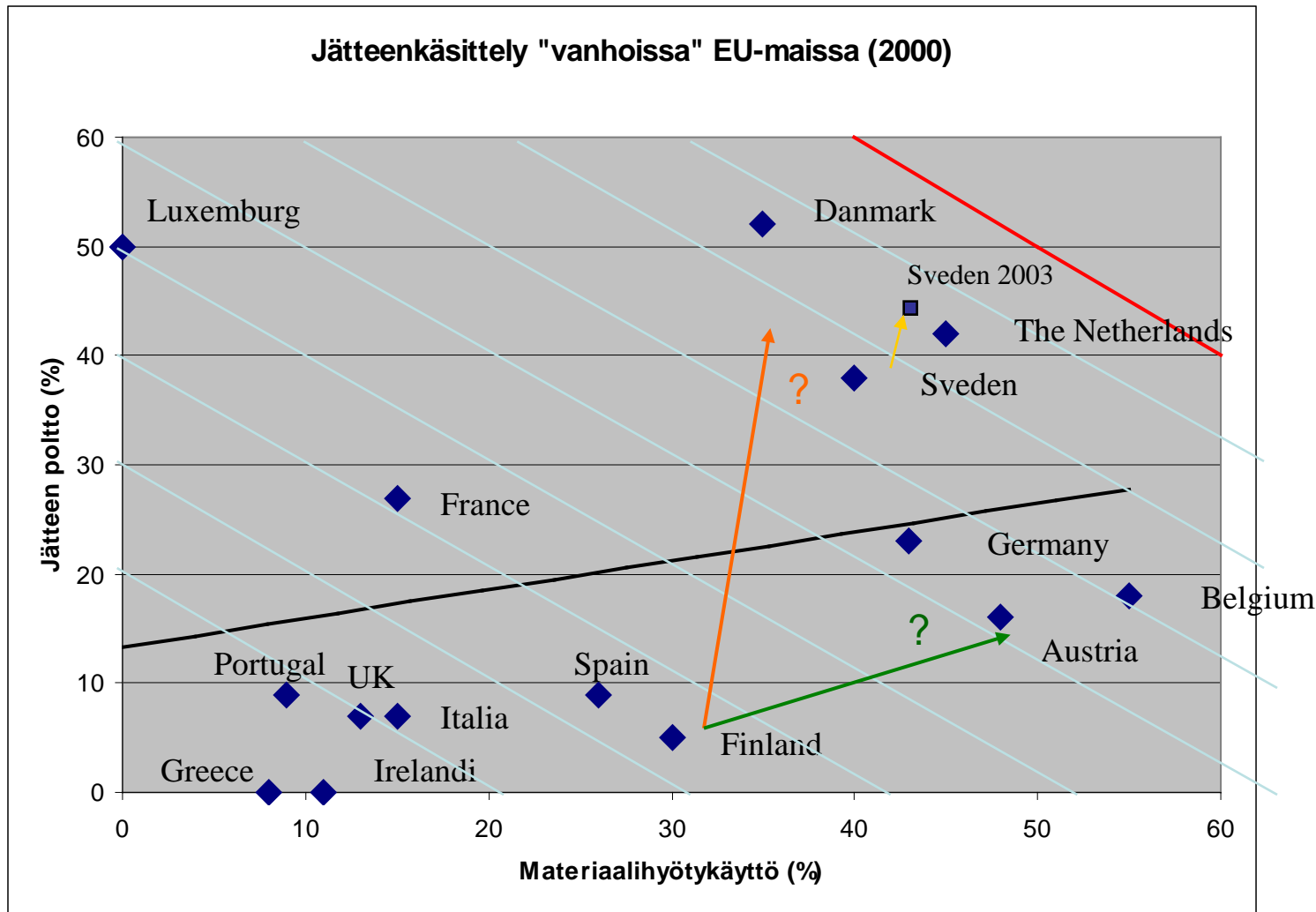
Policy 2.

- Biodegradable waste treatment, mining waste treatment and special types of waste are points of emphasis in the prevention of harmful effects
- Organization of waste management to be reviewed during the reform of current waste legislation
- Building waste management expertise into business and profitable waste management policy
- International waste shipments to happen safely and in a controlled manner

Waste taxes and charges

- Waste tax: 30 €/t landfilled waste, 57 Mio € in 2007
- Drinks packaging tax; beverages and soft drinks, from the beginning 2008 water bottles as well. 13 Mio€ in 2005 30 Mio € in 2007. 98% of soft drink packages are recycled
- Municipal waste charges, mean 98€/t (72-166€). Biowaste 64€/t
- Oil waste charges, lubrication oil, 5,75 cents/kg
- 4,6 Mio€ 2006. Used for waste oil management and soil clean up.

More burning or material recycling, waste management in "old" EY countries 2000



Landfills 2004-2006

Landfill	Haz	Non haz	Inert
Total nr	21	137	7
Compl.Dir	17	64	2
Closed	1	28	0
Re equip.	16		

- In 2005 and 2006 biodegradable under 2009 target (1Mio t).

1.11.2007 -> ??