Waste Management Planning - Ireland Experience

EEA Workshop on waste policy implementation in the West Balkan countries – Copenhagen May 2013



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Introduction



- O About me
- O About Irish Environmental Protection Agency
- O About Ireland and its waste

National Waste Indicators



Indicator		Current Position
Municipal Waste Managed	•	21% decrease since 2007
Household Waste Recovery		350% increase in recovery rate since 2002
Kerbside collection of household organic waste		218% increase since 2004
Municipal Waste per person	•	25% decrease since 2006
Commercial Waste Generated	•	26% decrease since 2007
Landfill Rate for Municipal Waste	•	33% decrease in disposal rate since 1995
Industrial Manufacturing Waste	•	1% decrease between 2006 and 2008
Construction & Demolition Waste Managed	•	81% decrease since 2007
Number of Municipal Landfills	•	65% decrease since 1998

Progress to EU targets



- Packaging Directive
- WEEE Directive
- End of Life Vehicles
- Landfill Directive
- Batteries Directive
- Waste Framework
 Directive









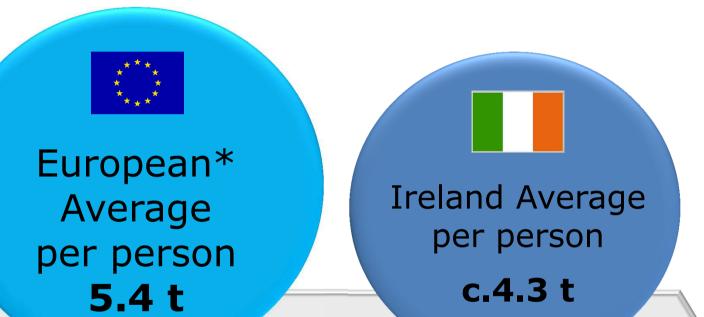










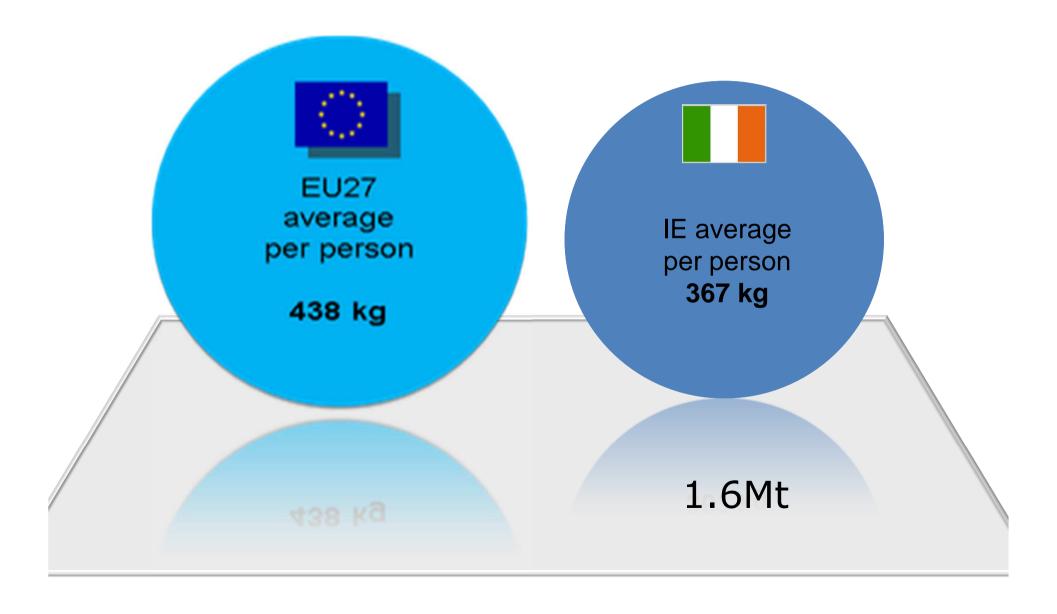


19.8Mt

* incl. Norway, Turkey & Croatia

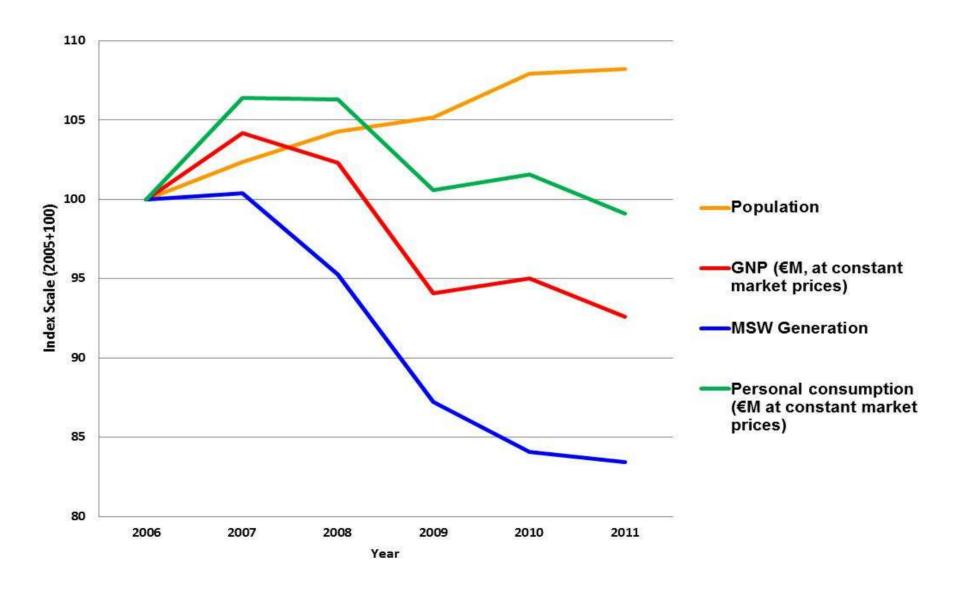






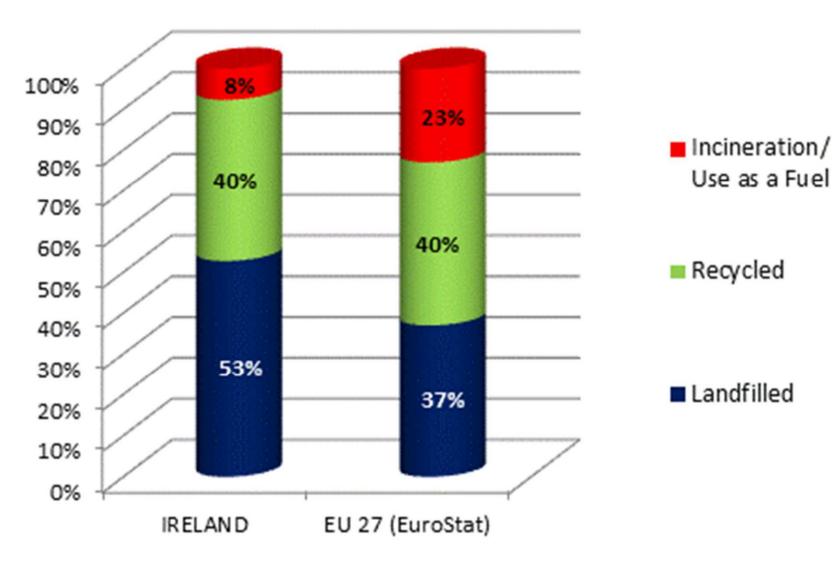
MSW Trends











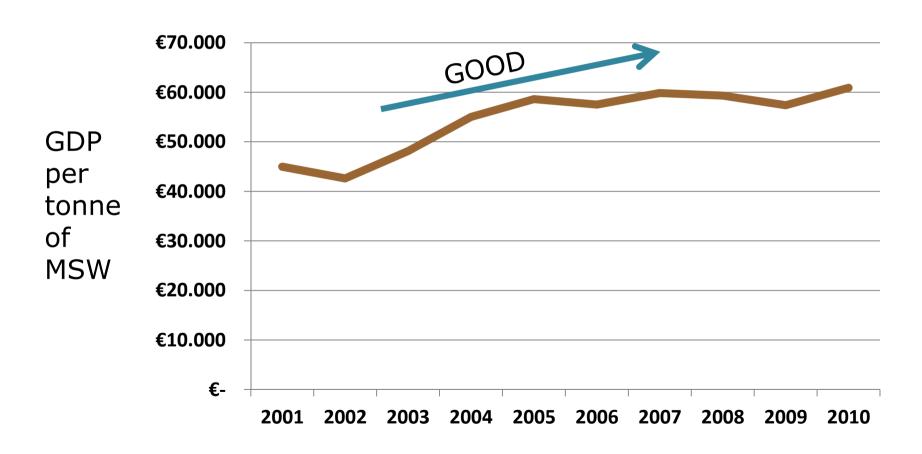






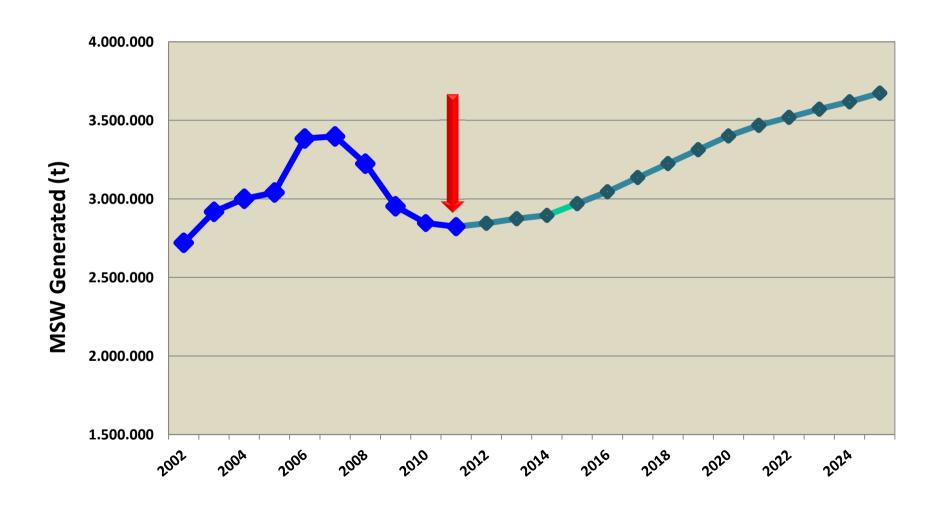
MSW 'Productivity' (€ GDP / tonne MSW)





MSW Waste Growth





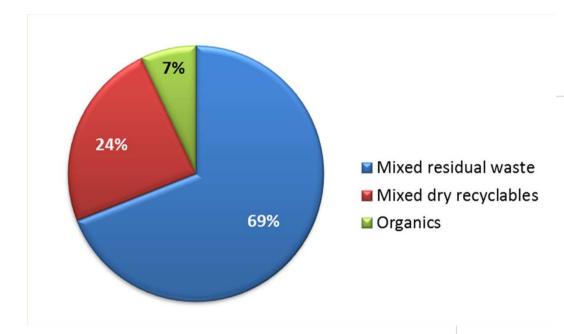
Infrastructure & Collection



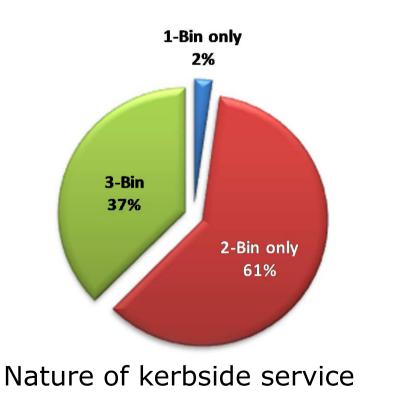
- No Merchant Hazardous Waste Incineration
- No Hazardous Waste Landfill
- Landfill Capacity 12 years at current rates
- 15 of current 28 MSW landfills will close in 3 years
- Merchant WtE capacity of 543,000tpa
- Biological Treatment 550,000 tpa
- One Civic Amenity Site per 43,000 population (107)
- 1,922 bring banks
- Cannot account for waste from over ¼ Million homes
- Only 1 on 3 houses on a collection scheme have a 3rd bin

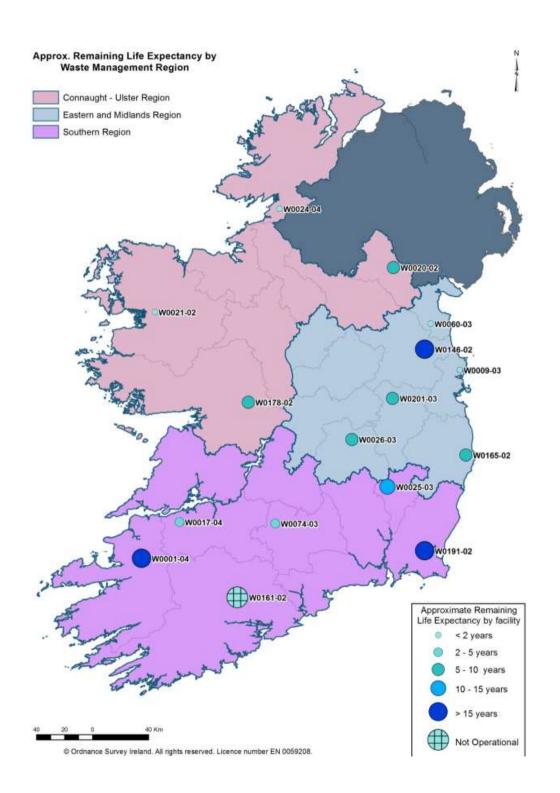
The Value of Data in Planning





Proportion (in tonnes) collected at kerbside







Remaining Landfill Life Expectancy & Distribution

What Makes a Plan Work?

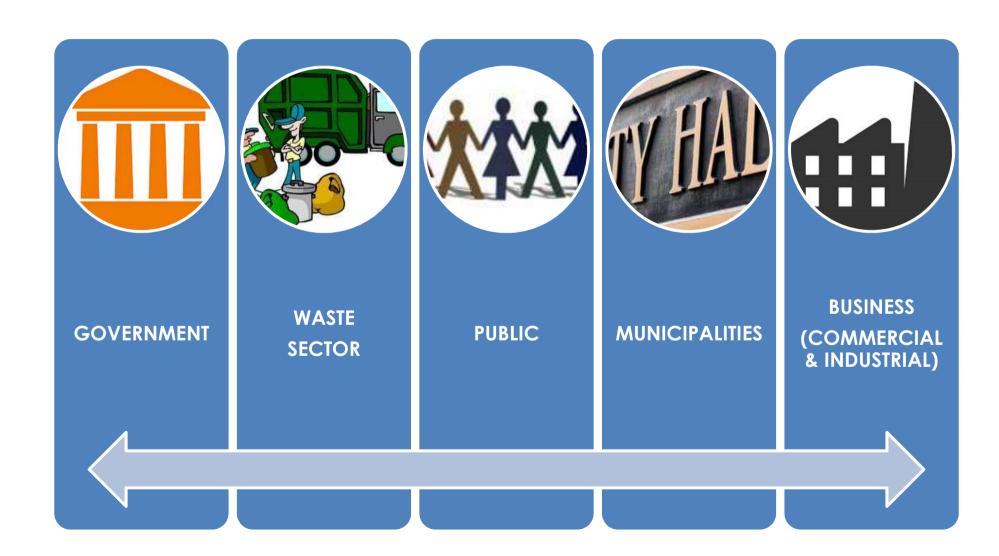




- OBJECTIVES
- Monitoring & Evaluation

Plan Partners





Planning Integration



- Hazardous Waste Planning
- Biodegradable Waste Planning
- Producer Responsibility Initiatives
- All Other waste
- Waste Prevention Programme
- O National Raw Materials Strategy
- O National Energy Strategy
- National Renewables Strategy
- National Spatial Planning

Importance of good Data



- Waste Statistics
- Waste characterisation
- National registers of collectors
- National register of waste facilities
- Waste Flows dataset
- Collaboration with national statistical body
- National & regional reporting obligations
- Imports / Exports

Regulation



- Collectors
- Transfer
- Processors
- Final Disposal / Recovery
- Imports / Exports
- Enforcement
 - Illegal activities
 - Closure of inferior facilities



Obligations



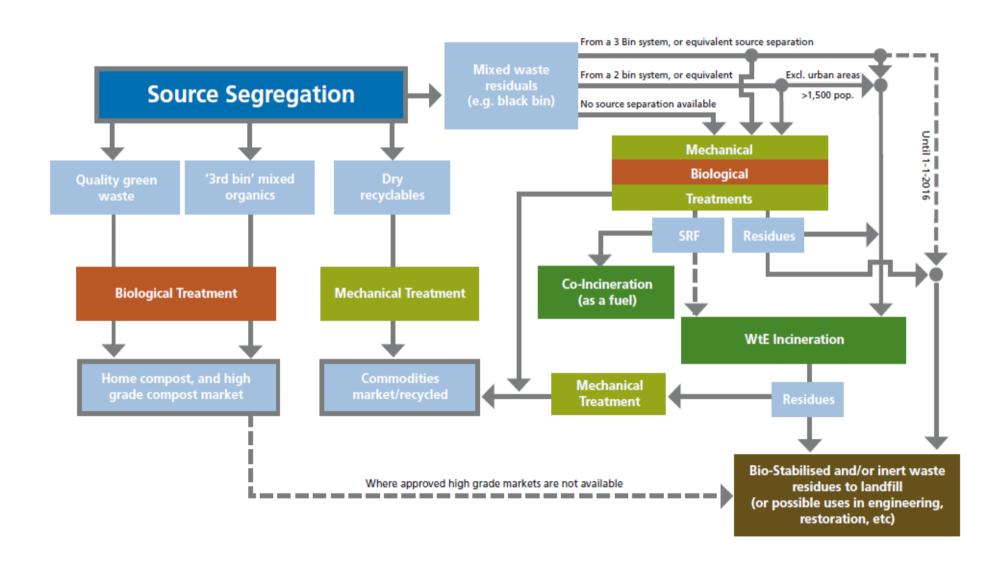
- Obligation to participate
- Obligation to segregate
- Obligation to recover

Obligations to pre-treat



Obligations to Pre-Treat





Clarity



- Ownership
- O Roles
- O Definitions
- Obligations

Market



- Public / Private
- Competition 'for' and Competition 'in' the market
- Ownership
- o 'Cherry Picking'
- Pricing
- Financing
- What waste can you control?
- Non-merchant waste management facilities

Infrastructure



- Waste Flows
- Range
- Capacities
- Life expectancy
- O Gaps
- Public or Private
- Non-Merchant



Securing Infrastructure



- Planning
- Waste Hierarchy
- Ownership of waste
- Pricing (pay by weight pay to use pay by lift)
- Taxation
- Community Gain
- Cannot direct waste
- Investment risk

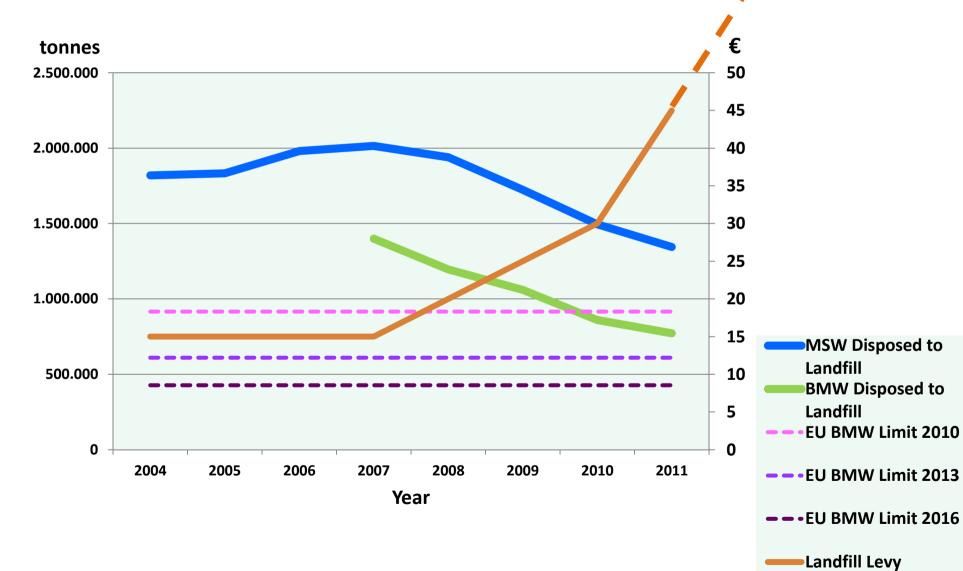
Legislation



- Landfill Levy
- Producer Responsibility Initiatives
- Commercial Food Waste
- Household biowaste obligations
- Obligation for households to participate
- Collection Permitting
- Facility Certificates, Permits and Licences
- Waste pre-treatment obligations (landfill & WtE)
- Hazardous waste tracking documentation

Taxation Driver

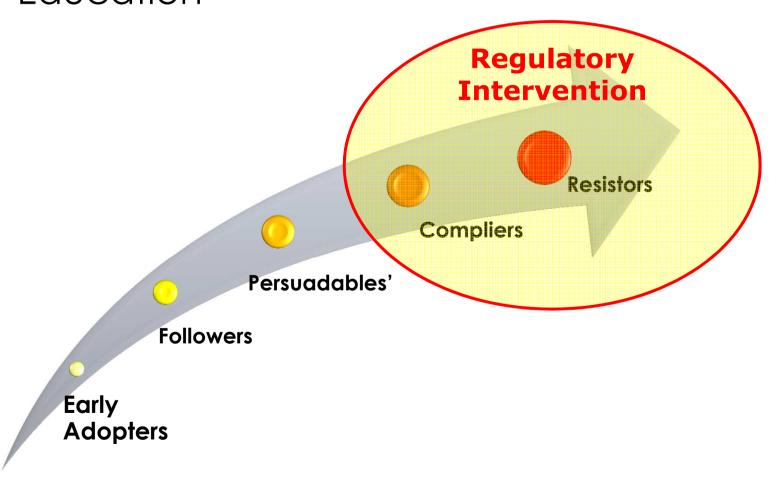




Road to Sustainable Waste Management

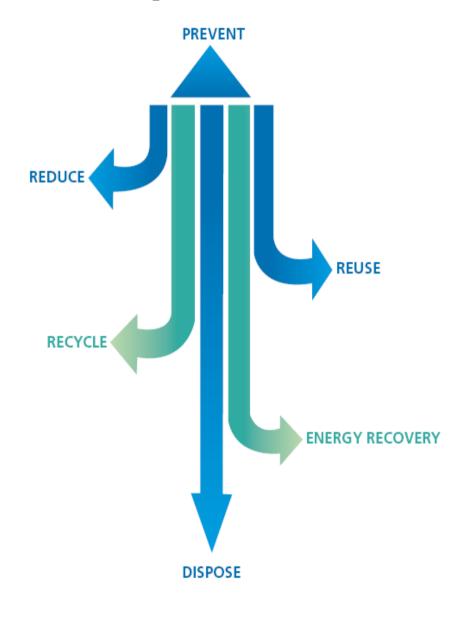


 Balance of Regulation – Demonstration – Education



Use of Hierarchy







Research & Development



- O Behaviours
- Flows
- Material Standards
- End of waste
- Markets
- Unique Technologies (BAT)
- Waste management in urban design



Challenges & Regrets 1



- Multiple plans
- Ban on inter-regional movement
- Slow to deal with the issue that each plan area does not have to have it all
- Environment & Planning control lacunae
- National registers
- Waste Ownership
- Slow to react to illegal trafficking
- Political rejection of infrastructure

Challenges & Regrets 2



- Data collection
- Some sectors inherently difficult
- Role of Taxation & PRIs initially undervalued
- 'Build it and they will come' risk
- Site selection criteria
- Time taken to deliver infrastructure
- Public perceptions

Key elements of success



- Good data
- Taxation
- Producer Responsibility Initiatives
- Good regulatory regime
- Clear roles
- Standard guidance on content of a plan
- Waste pre-treatment obligations
- Media & Awareness activities
- Collaboration/Communications

What makes up the 'Measures' & 'Necessary Actions' & 'Sufficient Information'?



Follow up (examples) ...

- www.BeGreen.ie (Resource Efficiency universal landing page)
- www.nwpp.ie (Waste Prevention Annual Reports)
- Example of Waste Plan –

http://www.managewaste.ie/WasteMgePlanNov2006.asp

- Waste Statistics http://www.epa.ie/pubs/reports/waste/stats/
- National Waste Policy –

http://www.epa.ie/pubs/reports/waste/plans/

Waste Characterisation –

http://www.epa.ie/pubs/reports/waste/wastecharacterisation/