

# Overview of Landfill in Ireland

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# Outline of Presentation

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- Background,
- Progress,
- Challenges,
- Remediation/Historic



# Traditional Waste Management

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1995

- Few Regulatory Controls & Little Strategic Planning
- Poor Design and Operational Standards for Facilities
- Minimal Expenditure & Low Technology to Conserve Costs
- 88.9% BMW to Landfill



# Legislation....

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- Landfill Directive 1999/31/EC
  - S.I. 336 2002 & S.I. 337 2002
- Council Decision 2003/33 – WAC
  - S.I. 395 of 2004 (Consolidated)



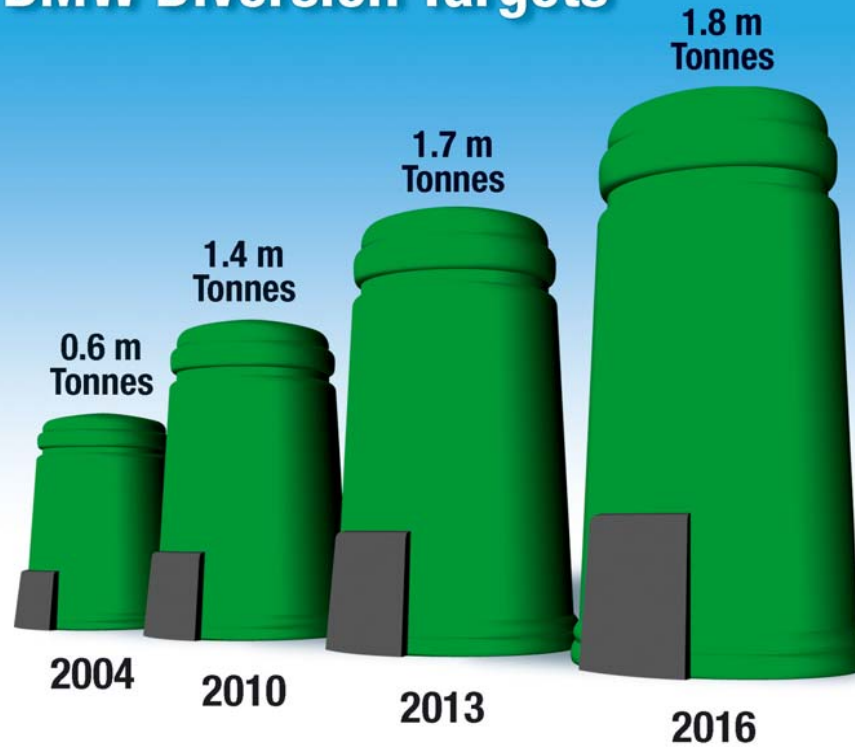
# Biodegradable Targets

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- 2006 – Reduce landfilling to 75% of BMW produced in 1995,
- 2009 – Reduce landfilling to 50% of BMW produced in 1995 and
- 2016 – Reduce landfilling to 35% of BMW produced in 1995
  - Ireland has taken the Art 5.2 derogation (2010 & 2013)

# Challenging Targets

## BMW Diversion Targets





# Key Policy

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1998 - Changing Our Ways

2002 - Delivering Change

2004 - Taking Stock & Moving Forward

2006 - National Biodegradable Waste Strategy

2008 - "Brown Bin Circular"

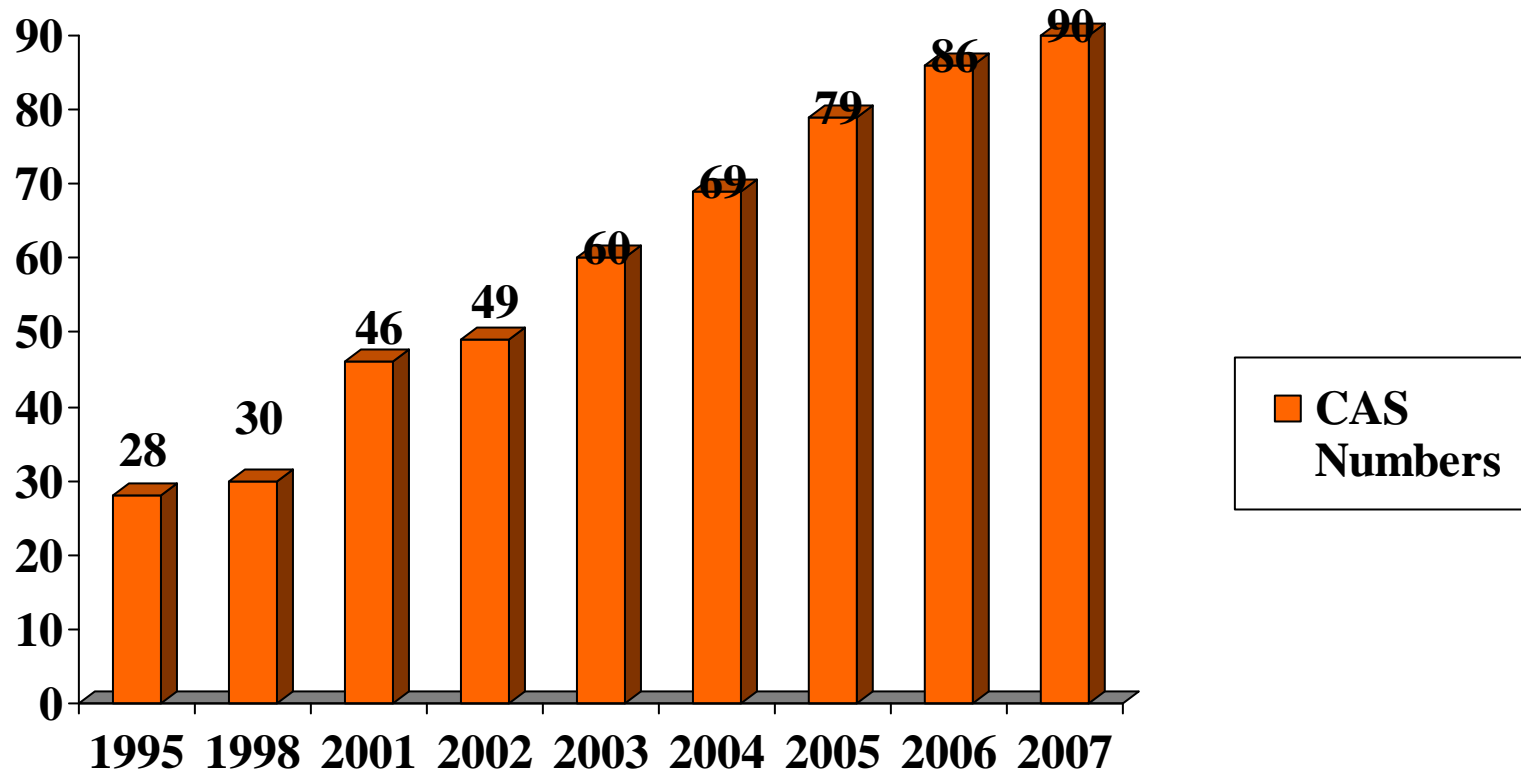


# Currently.....

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- Waste Management Enforcement
- Strategic Waste Management Planning
- Quality Waste Treatment, Recovery and Disposal Facilities
- Hugely Increased Waste Management Costs
- 63.5% BMW to Landfill (2007) – 90% (1995)
- *A lot Done..... a lot more to do*

# Existing Recycling Centres (Civic Amenity Sites)



## *Paper/Cardboard Recycling Rates: 1995-2004*



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| Year | Recycling Rate (%) |
|------|--------------------|
| 1995 | 16.5%              |
| 2004 | 45.7%              |
| 2007 | 58.0%              |

# Related & other Initiatives

- Research – ERTDI
  - Compost standard
  - Food Waste Disposers & Organic Waste Management in Multi-Storey Dwellings
  - Role of MBT
- MDG

- Plastics
- Organics
- Paper



DESIGN 1: Apartment Block with open waste storage bay



## Waste Stats – Headlines (2007 Data)

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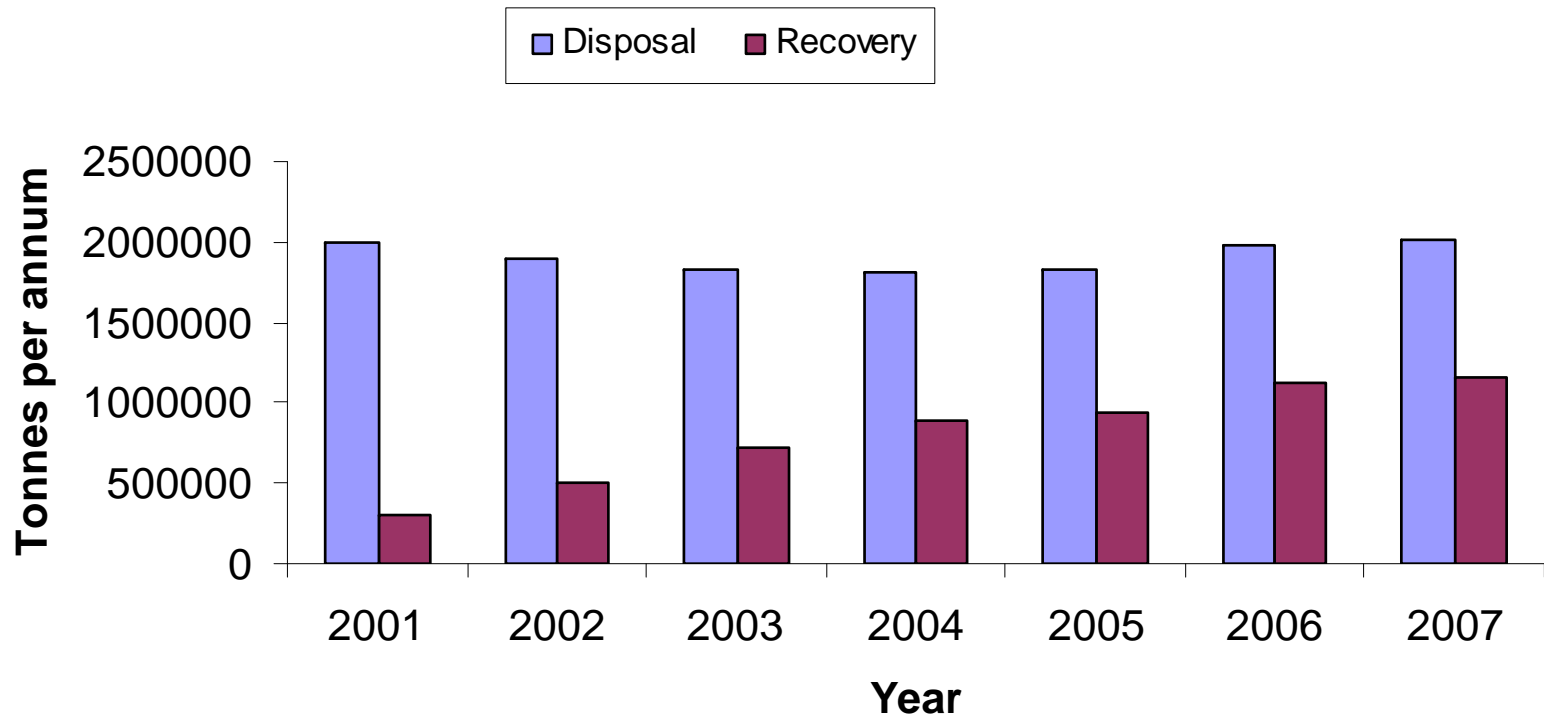
- Overall recycling – 36.5% - ↑ 3.6% (9% - 1998)
- Total MSW – 3.4M Tonnes - ↑ 0.4%
- Bio MW going to landfill - ↑ 5%
- <9% of organic wastes recovered



# Waste Trends....

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## Trends in recovery and disposal of municipal waste

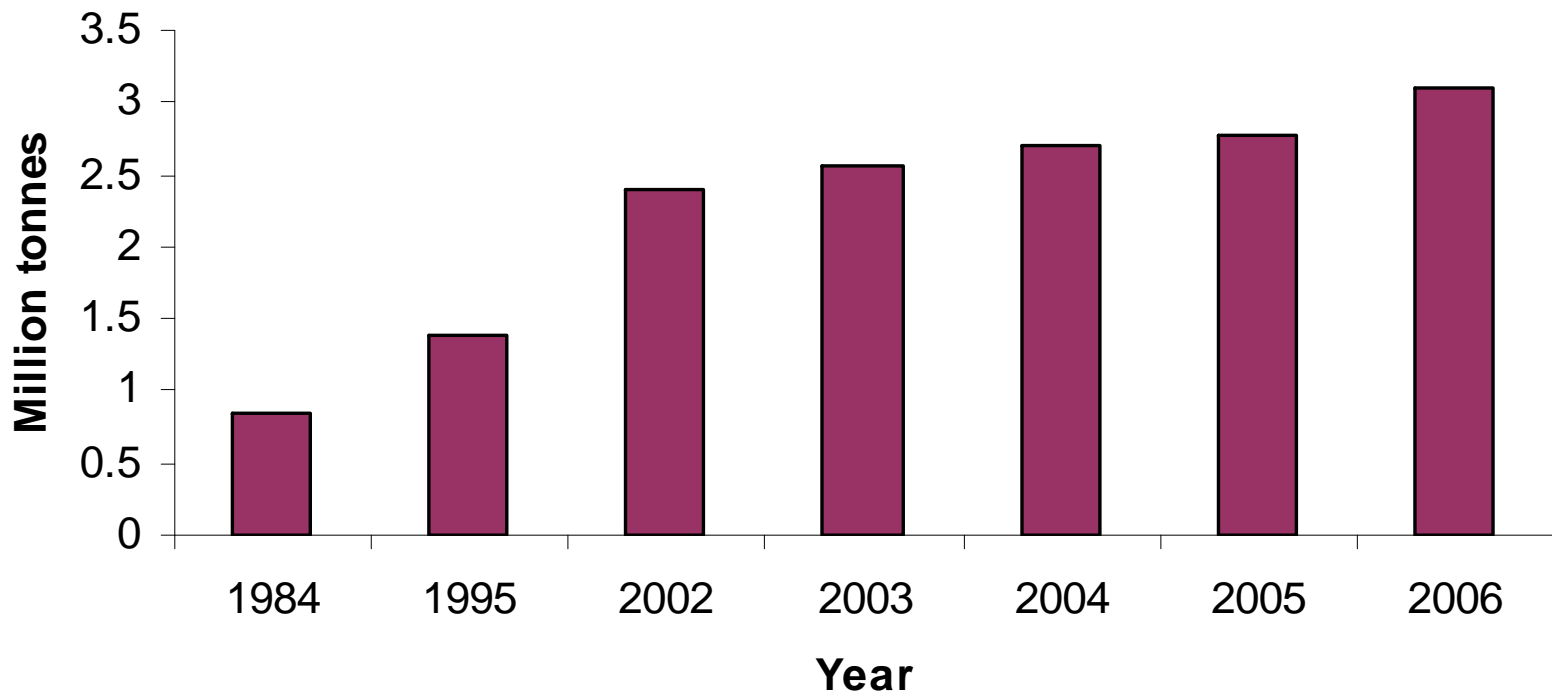




## Waste Trends.... (2)

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### Total household and commercial waste collected

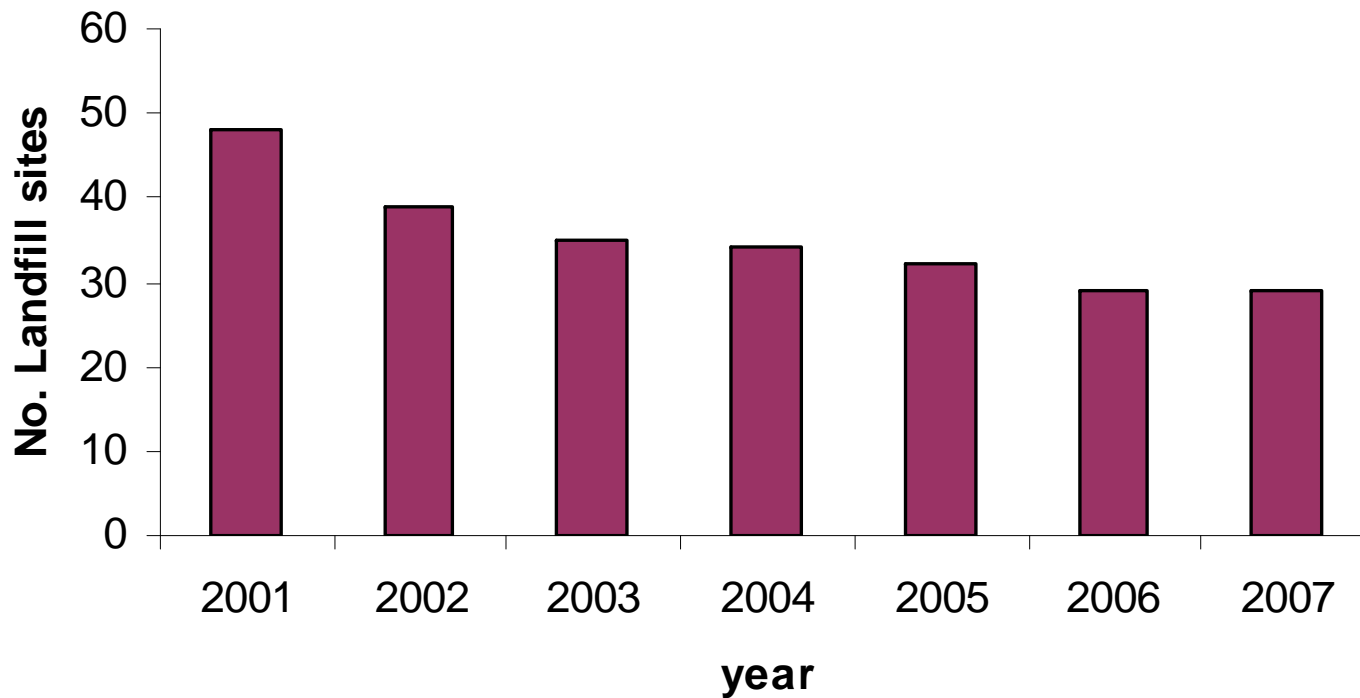




## Waste Trends.... (3)

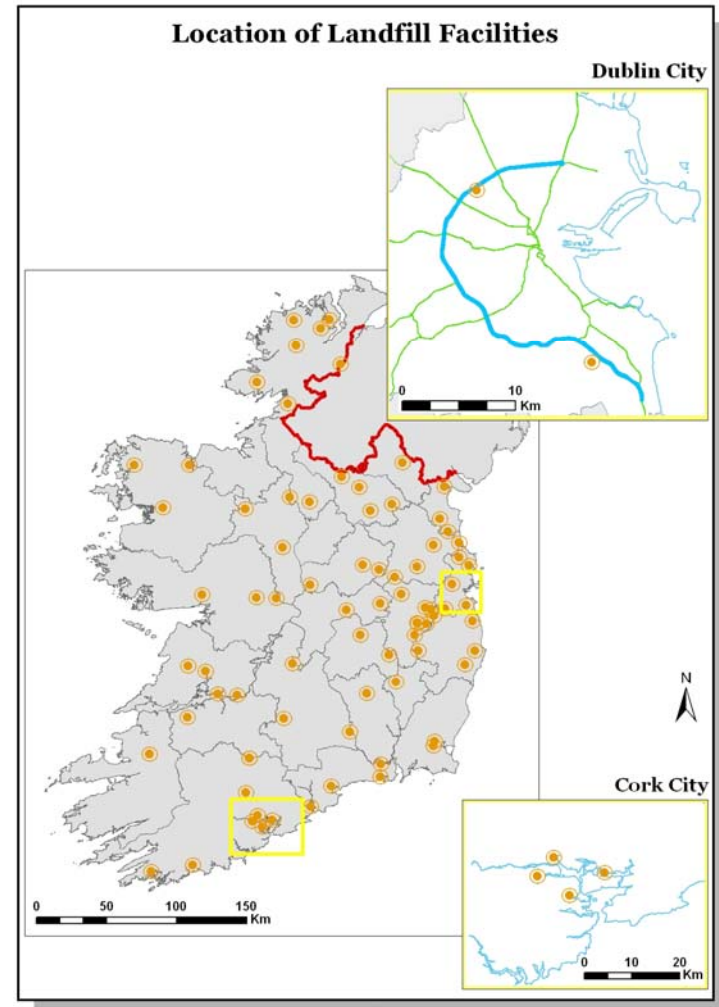
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**Number of Landfills accepting municipal waste**



# Landfills - 2008

- 79 licensed
  - 37 operational
  - 31 closed
  - 11 – not commenced/  
activities ceased

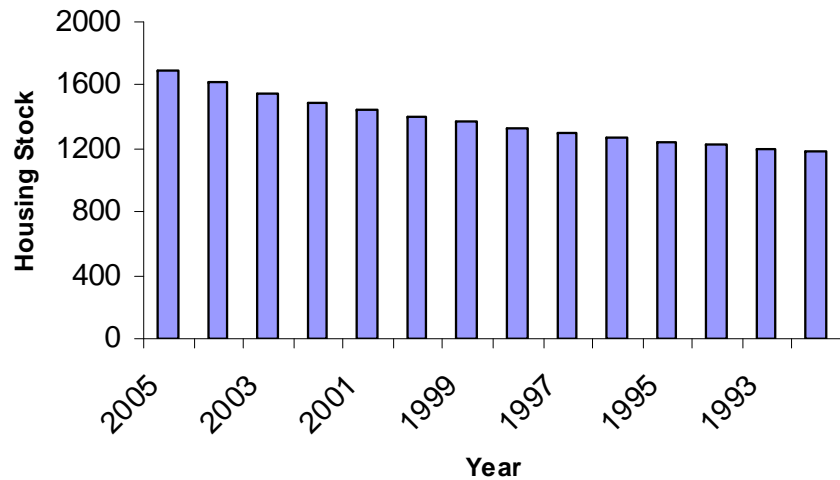




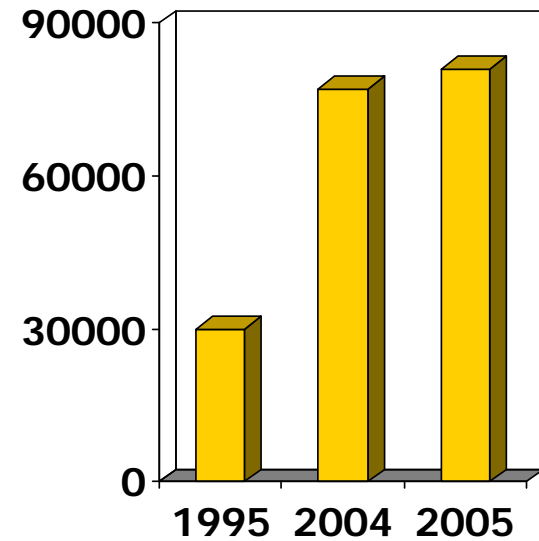
# Housing Stock

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## Trends in Housing Stock



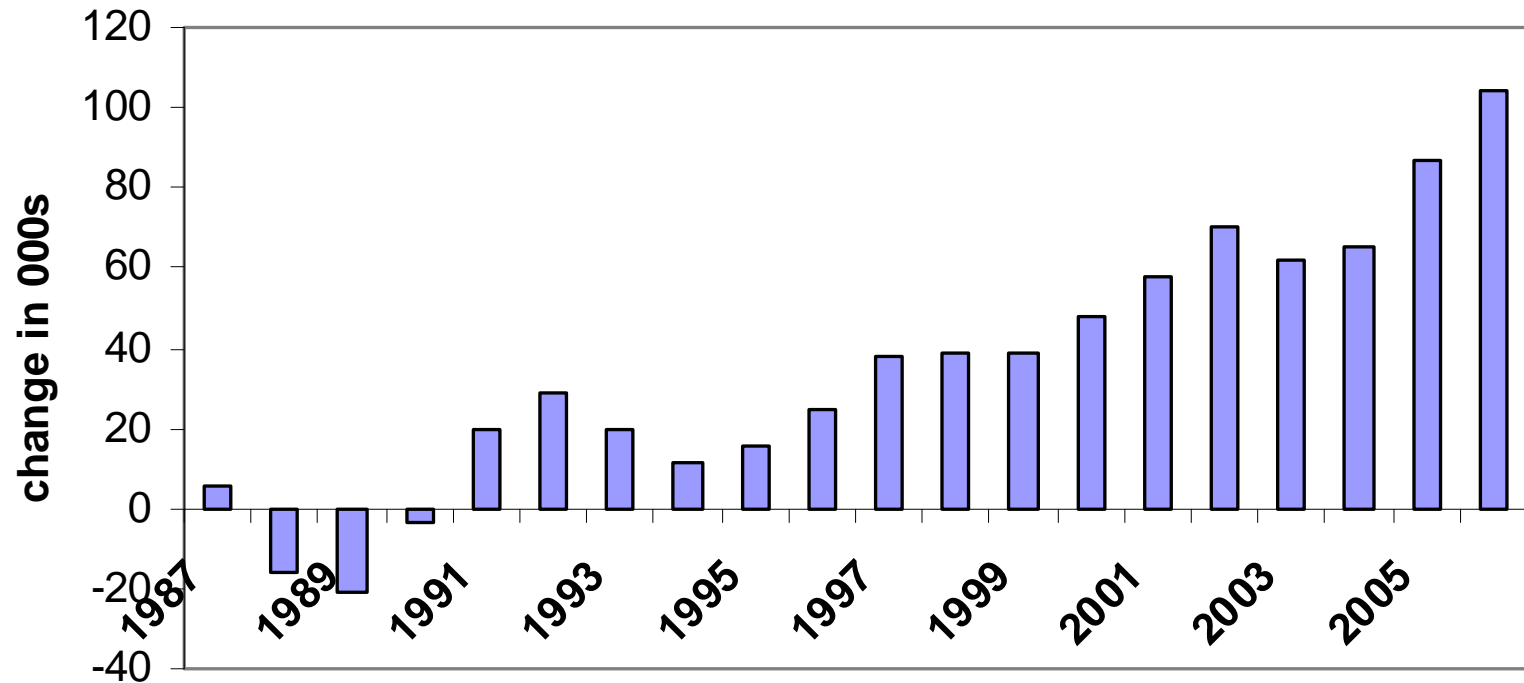
## New Houses built





# Population Trends

## Population Change

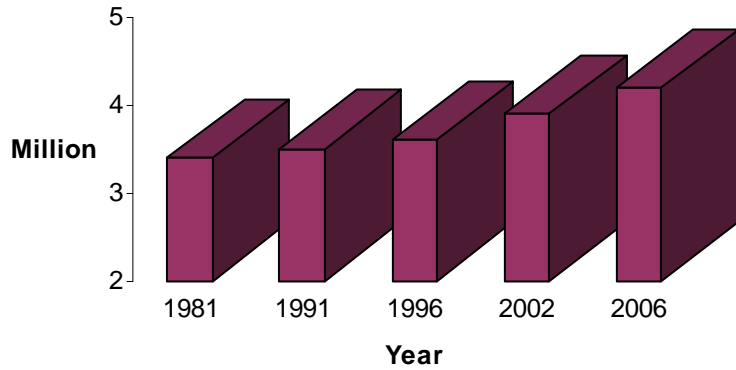




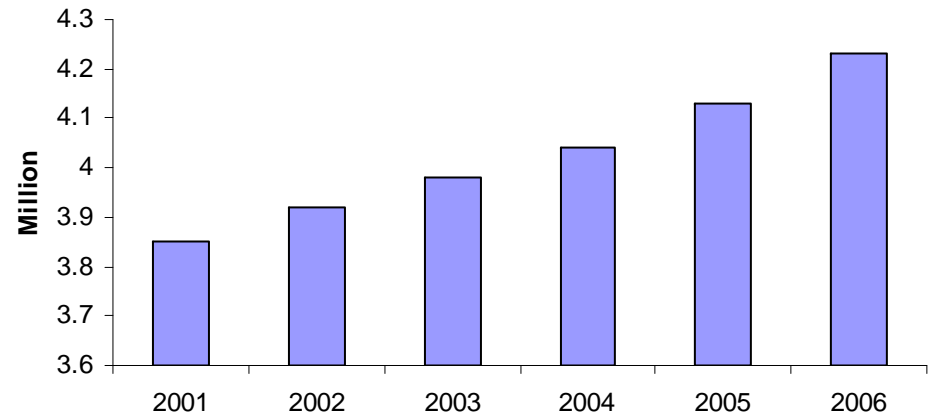
# Population Trends (2)

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**Population Trend**



**Total Population**





# Landfill Remediation

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- Exchequer funding for 2006-2008
- Remediation of licensed closed LA landfills
- 75% Funding
- Capital expenditure - Restoration and Aftercare Plan (EPA)
- 19 sites covered – 2006-2008
- €30m approx.



# Historic legacy Landfills (1)

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- Section 22 of WMA 1996-2008
  - Section 26 – Hazardous
- Operated between 1977 and 1997
- S.I. 524 of 2008 (Certification of Historic unlicensed Waste Disposal and Recovery Activity)



## Historic legacy Landfills (2)

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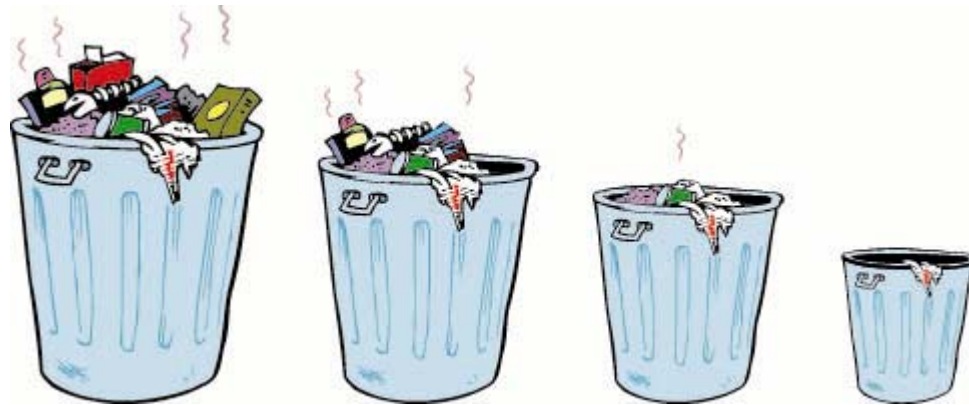
- Inventory and Risk Assessment
- EPA Code of Practice
- Tier 1, 2 & 3
- EPA - Register & GIS tool
- To date 345 sites
- Seminar 26<sup>th</sup> May



# Future?

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- Food Waste Regs (Draft)
- International Review
- Landfill Bans
- Levies
- Pretreatment Guidance



Thank you for your attention.....

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