



Twinning Project IL/11
Implementation and Strengthening the Environmental Framework for
IPPC, Resource Efficiency and Eco-Management in Israel



Data Segmentation

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Jerusalem Workshop
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Component 3.1





Who does what in Northern Ireland re. MSW data

- Local Government
 - Data collection
 - Audit of data sources
 - Collation
 - 3 levels of confirmation
 - Reporting to Ministry
 - Utilisation of reports for planning and procurement
- Central Government
 - Audit of municipal data
 - Reporting to Europe
 - Production of reports





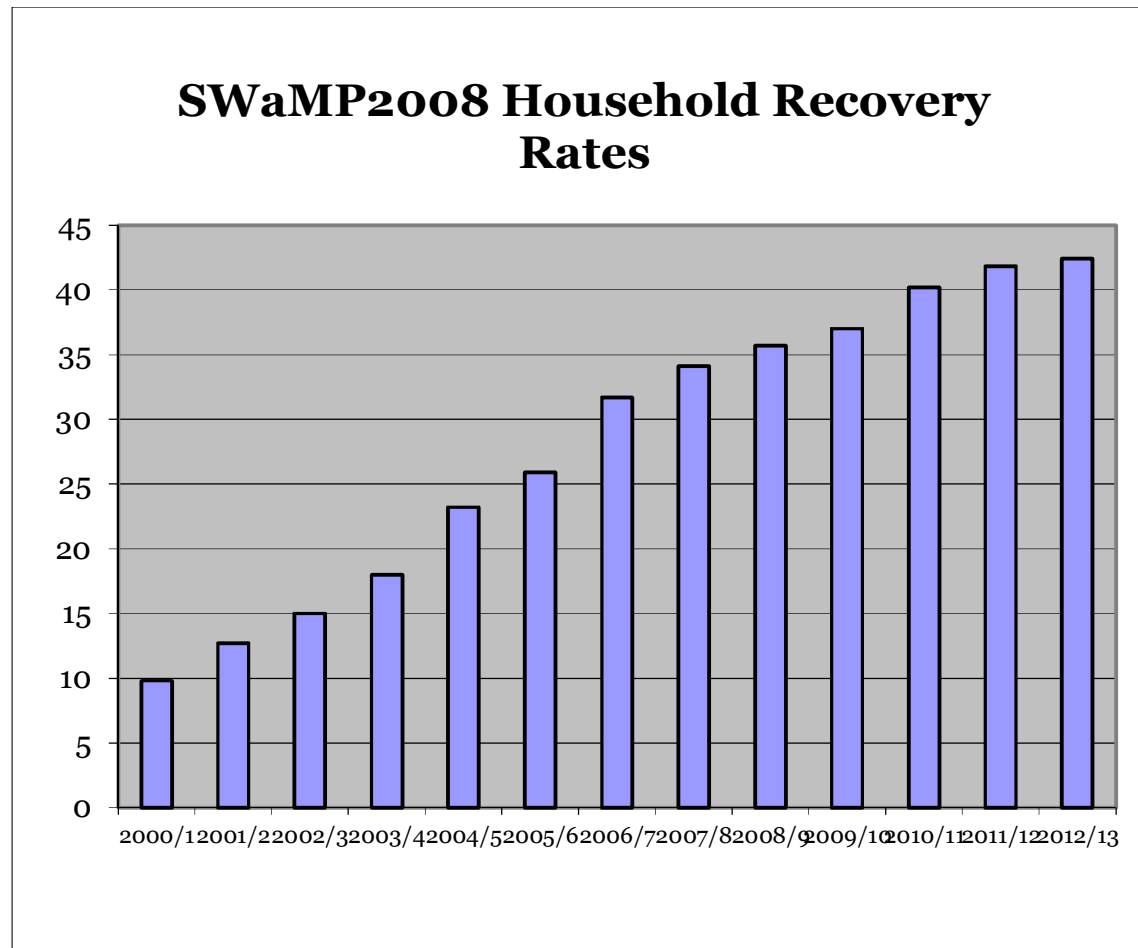
Data Collection Points

- Municipal Collections
- Landfill
- Transfer – in and out
- MRF – in and out
- Composting – in and out
- SRF export – TFS – in and out
- Waste-to-energy – in and out
- Other wastes – clothes, glass, tyres etc.





Local Government Reports ex. WasteDataFlow





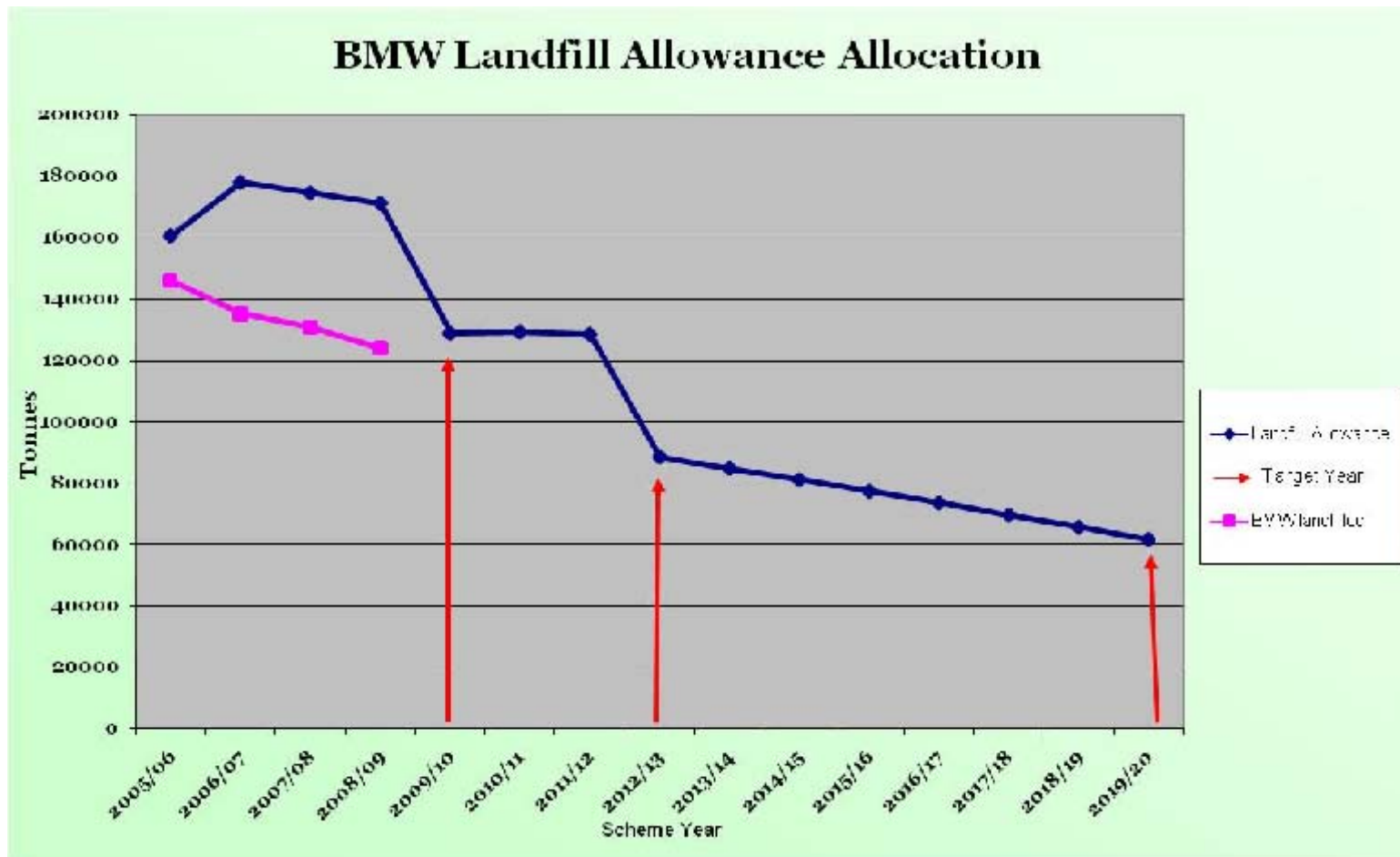
Waste Modelling

	Biodegradable LACMW Landfilled	NILAS Allowance	Surplus (+) / Deficit (-)
Armagh	3,225	7,290	+4,065
Banbridge	4,827	6,055	+1,228
Cookstown	2,195	4,492	+2,297
Craigavon	1,619	10,890	+9,271
Dungannon	2,746	6,480	+3,734
Fermanagh	3,592	7,686	+4,094
Newry	5,418	12,200	+6,782
Omagh	2,186	6,559	+4,373
SWaMP2008	27,213	61,652	+34,439





Statutory Compliance





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Contracts – Guaranteed Tonnage





Policy & Planning

- Once accurate waste datasets are established, realistic targets, financial instruments and country-wide treatment infrastructure can be established with confidence





Waste Infrastructure Planning

	%
Kerbside MDR (inc Glass)	3.0
Kerbside Compostables	0.5
CA Site Recycling & Compostables	0.8
Increase in Brown Bins	1.8
Bring Bank Adjustment for Glass	-0.4
Residual Recycling (@10% recycling)	3.6
Projected Total Increase:	9.3
Projected Recycling Rate (2019/20):	51.2





Key WasteDataFlow Questions

Northern Ireland	KPIs	Qrtly	KPI(a)	HH Waste Recycled and Composted as % of Arisings
Northern Ireland	KPIs	Qrtly	KPI(b)	HH Waste Landfilled as a % of Arisings
Northern Ireland	KPIs	Qrtly	KPI(e)	Municipal Waste Recycled & Composted as a % of Arisings
Northern Ireland	KPIs	Qrtly	KPI(f)	Municipal Waste landfilled as % of arisings.
Northern Ireland	KPIs	Qrtly	KPI(h)	HH Waste Arising per HH
Northern Ireland	KPIs	Qrtly	KPI(j)	Municipal Waste Arisings





Types of Report Available Through WDF

Question	
Community sector	Q012: Tonnes from voluntary ks recycling
	Q012: Tonnes from voluntary ks recycling
	Q016: Recycling tonnes CA
	Q017: Bring site recycling tonnes
	Q018: Other recycling tonnes
	Q019: Recycling destination
	Q019a: Recycling Destination (residual)
	Q023: Waste disposal
	Q024: No. of reported Fly tips
	Q025: Abandoned vehicles
	Q026: No. of fridges/freezers
Waste Collected or Reuse	Q033: Volntry bring site rcycling tnns
	Q034: Street recycling bins
	Q035: Reuse destination
-	Q051: Disposal - Inert landfill
10.000	Q052: Disposal - Non haz landfill
	Q053: Disposal - Haz landfill
	Q054: Disposal - Incin. with energy
	Q055: Disposal - incin. w/out energy
	Q056: Disposal - sent to RDF
	Q057: Disposal - Adv. thermal tment
	Q058: Recyclables to MRF
	Q059: Disposal - sent for MBT
	Q060: Disposal - sent for AD
	Q061: Disposal - Organics for AD
	Q062: Disposal - Organics In-Vessel
	Q063: Disposal - Windrow/other
	Q064: Disposal - Residual waste MRF
	Q065: Disposal - Waste Mgt. other
	Q069: Breakdown of disposal tonnages
	Q070: Waste separated from residual





Summary

- Monthly, quarterly and annual reports, charts and graphs
- Identify trends and recycling performance
- Calculate diversion from landfill
- Benchmark with other like authorities
- Monitor performance against key indicators
- Compare methods of collection
- Identify Best Practice
- INCREASE EFFICIENCY





Ministry Reports From Waste Data Flow

- **NIEAs most recent report Waste Statistics Reports**
- <https://www.doeni.gov.uk/articles/published-waste-data>
- and look for the 'annual local authority collected municipal waste' link
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- **NI Landfill diversion Report**
- <https://www.doeni.gov.uk/sites/default/files/publications/doe/waste-nilas-report-2014-15.pdf>
- **Northern Ireland local authority collected**
municipal waste management statistics July to
September 2015 quarterly report
- https://www.doeni.gov.uk/sites/default/files/publications/doe/lac-municipal-waste-q2-2015-16_0.pdf
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Ministry Reports From Operators not integrated into WDF

- Quarterly Waste Returns (operator data) are collected in a separate database and are not integrated into WDF.
- The Quarterly Waste Returns all contain standardised industrial classification codes (SIC) - the UK 2007 ones are also compatible with EC NACE codes (another EC-wide industrial classification) to aid the classification of waste entering most (but not all) treatment facilities in NI.






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Site Information

waste-form-summary-returns-2015_example

Version 49	Dated 31/12/2015
WASTE SUMMARY RETURNS FORM	
<p>* Use this form to tell us the type and quantity of controlled waste you have processed at each facility on your site over the last quarter.</p> <p>* This form is issued under the terms of the site authorisation for the purposes of site monitoring under the legislation below; The Waste and Contaminated Land Order (Northern Ireland) 1997 The Pollution Prevention and Control Regulations (Northern Ireland) 2003</p> <p>* Please read through the whole form and guidance notes before you start filling anything in.</p> <p>* Please e-mail the completed form back to us within 1 month of the end of the quarter to which it applies.</p>	
1 Return Period	
Period name	Authorisation Ref no.
Qtr Oct-Dec 2015	
2 Operator and site details	
Site / Operator Name	
Example- Bloggs & Co, processing site, Bagend, Belfast	
2.4 Was a weighbridge used?	
Yes/No	no
Percentage weighed	%
3 Declaration	
I certify that the information in this return is correct to the best of my knowledge and belief.	
Name	Example- Mr F Smythe
Position	Example-operations manager
Phone	Example-028 999999999999
4 ONCE THIS SHEET IS COMPLETE, FILL OUT SHEET 2 'WASTE RECEIVED ON SITE'	
5 Disclosure and data protection	
The information you provide will be used by the Northern Ireland Environment Agency to enable it to fulfil its regulatory and waste management planning responsibilities.	
	





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- The guidance notes (see link below) inform users what they need to input into each cell of the form which must be returned to NIEA within 1 month of the end of the preceding quarter (authorisation condition).
- <https://www.doeni.gov.uk/publications/waste-summary-returns-form-and-guidance>





- The attached report contains fictional data for illustration on a blank form to give an idea of what a summary return might look like (see attached).
- Tonnages on and off add up – this is not normally the case e.g. stock piling of metal in anticipation of a price rise etc
- These are summarised returns over a quarter – if you want to increase traceability of the data you could add a date field and capture information per day or per month.





Another system worthy of consideration is the EDOC system- Electronic Duty of Care

- <http://edoconline.co.uk/>
- There is a test site to use by way of example
- <http://edoconline.co.uk/edoc-test-system/>
- This linked document may also be helpful
- <http://edoconline.co.uk/assets/uploads/2014/01/004-P17903-Implementing-edoc-in-your-business-22-01-2014.pdf>





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- Such systems can effectively remove the need such periodic returns by making each step of the waste movement chain record on-line the waste they receive, process and then pass on which makes data collection / validation easier leaving more time for regulatory analysis by Ministry / Agency Staff.

