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ar son na hAeráide & Comhshaoil**  
Department of Communications,  
Climate Action & Environment

# Construction Waste Resource Group

Eóin Deegan

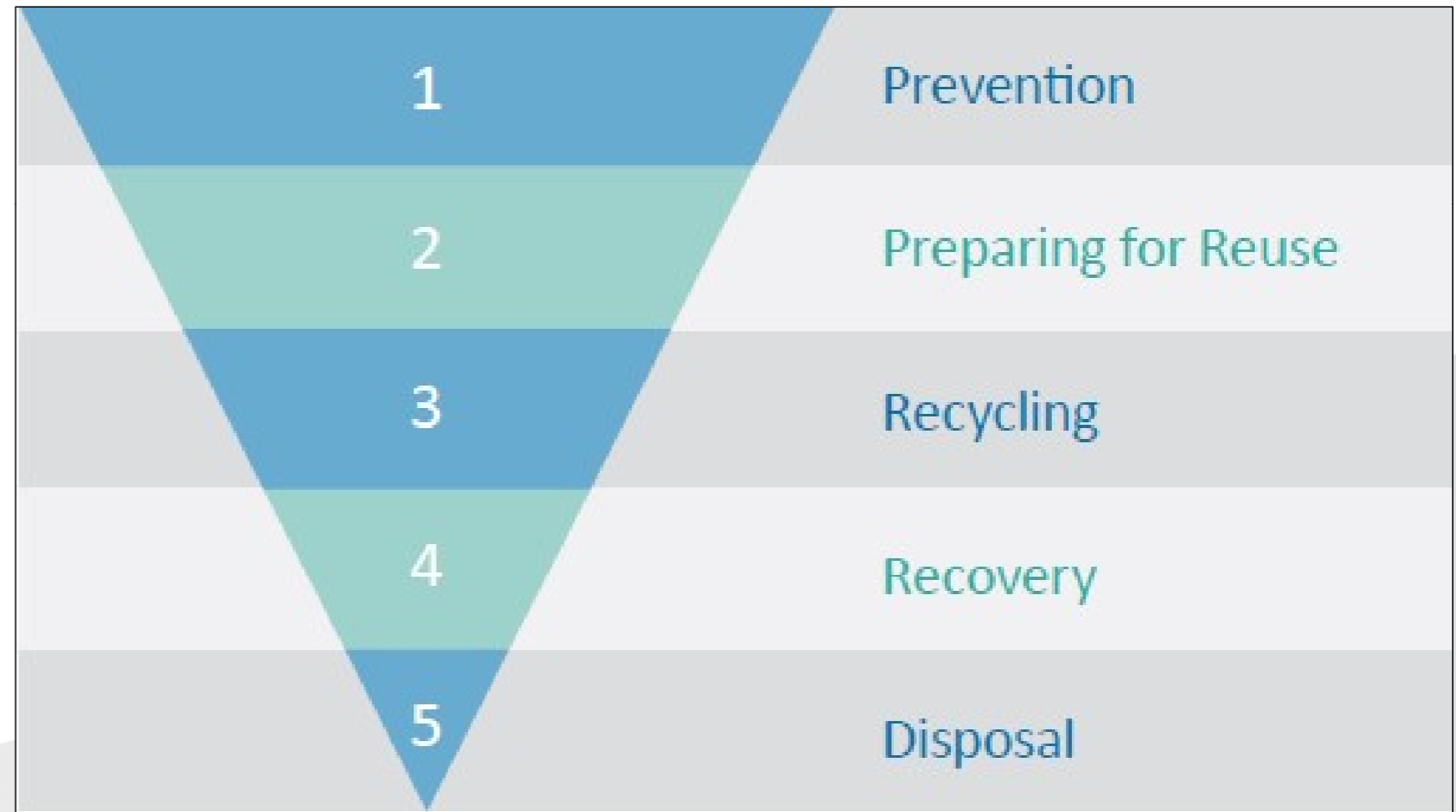
Waste Policy & Resource Efficiency Division

24<sup>th</sup> April 2019



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# Waste





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# CDW - what?

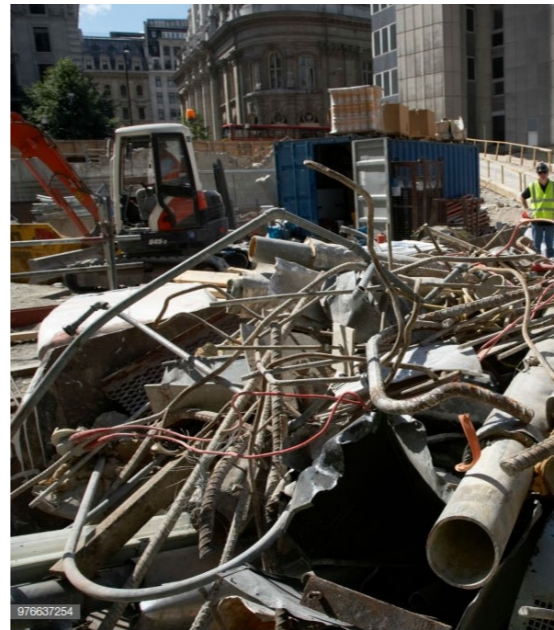








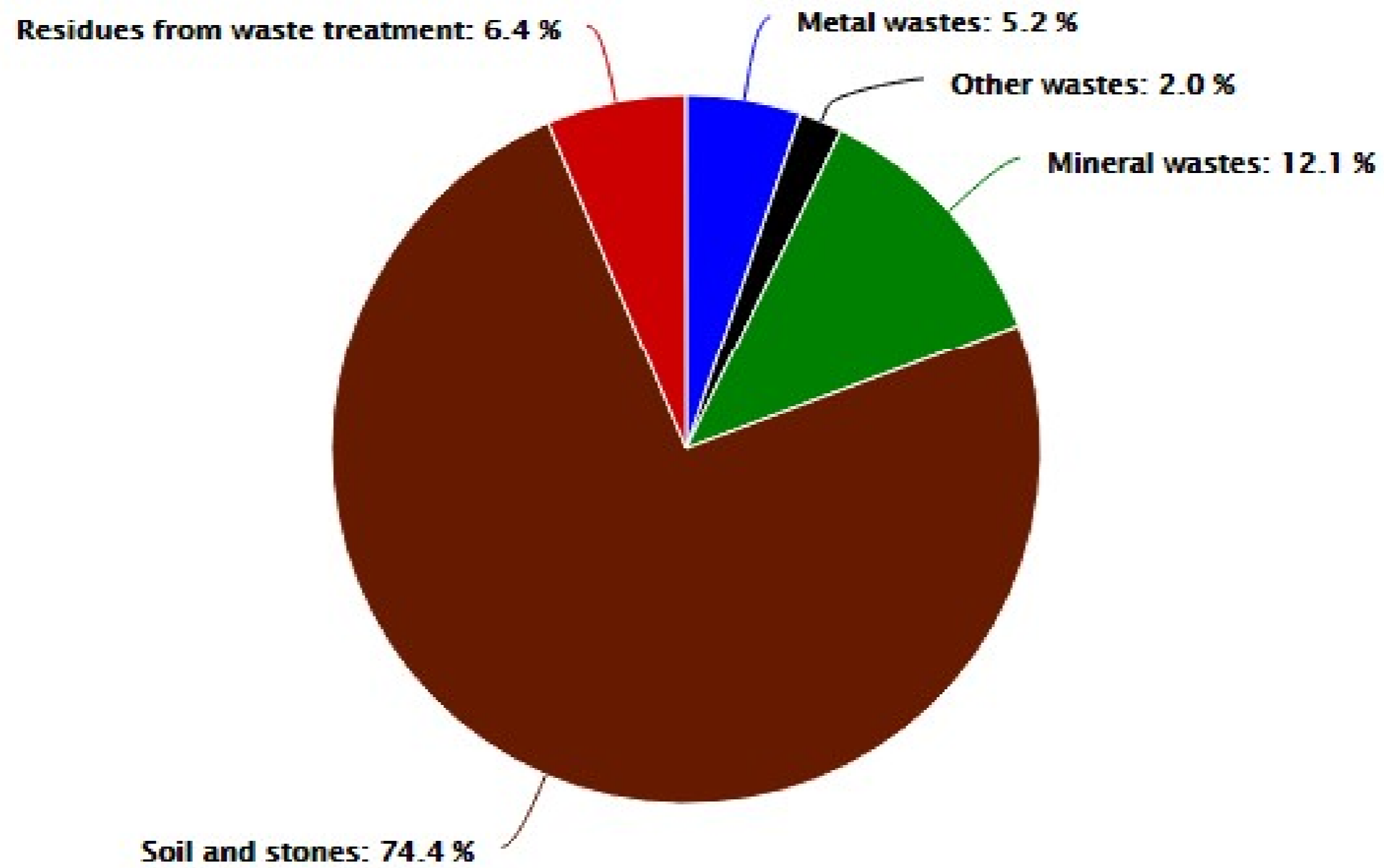
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## C&D waste material streams in reference to total (%), 2014

Source: EPA





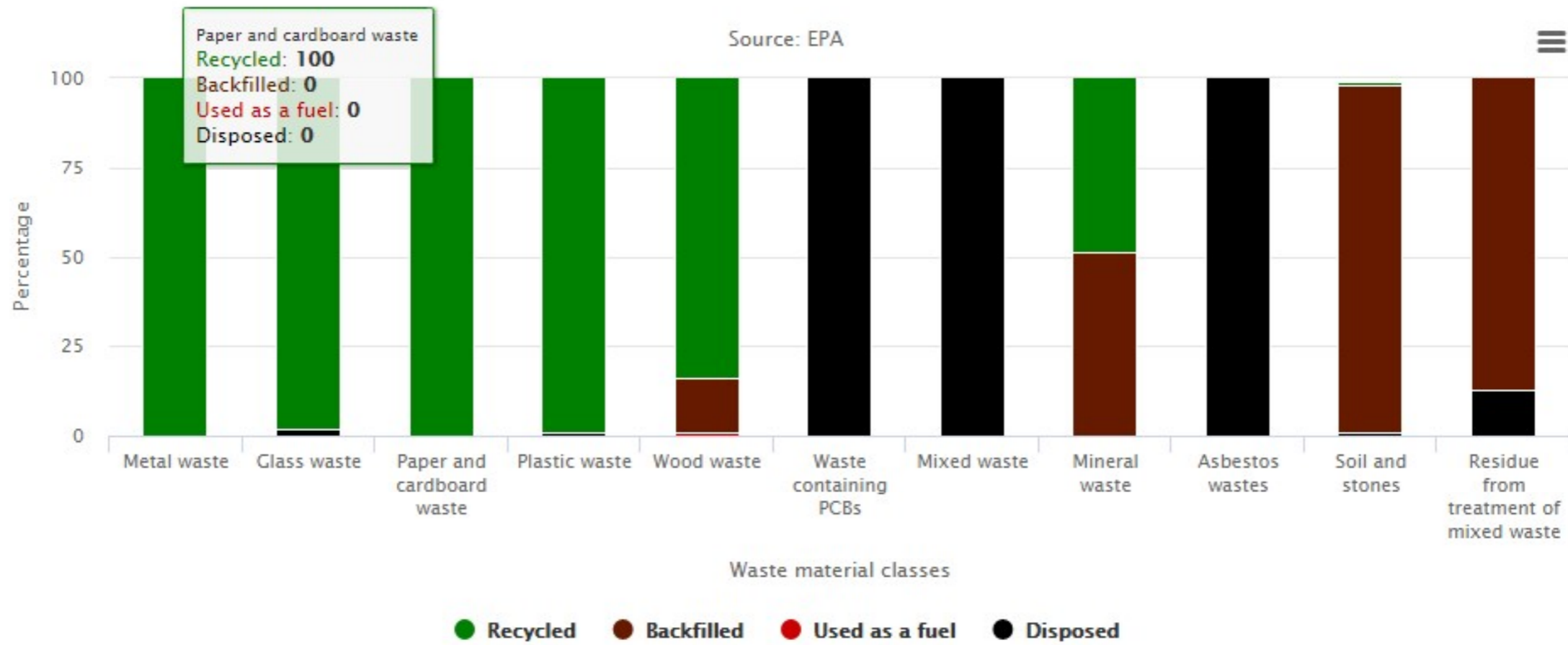
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# CDW - how?



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Final treatment for C&D waste material classes, in reference to total for each material class, 2014

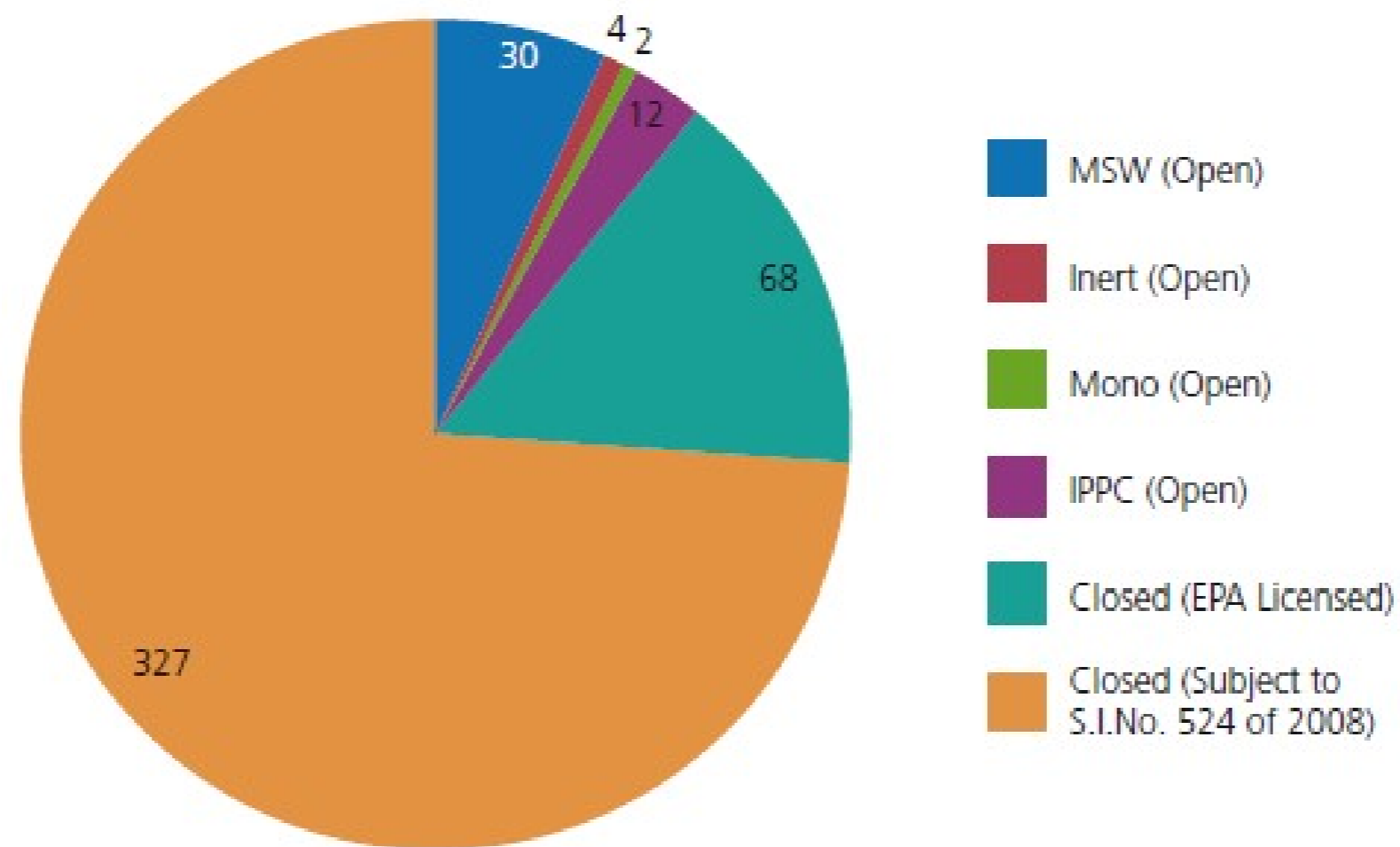






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### Number of landfills by type in 2009







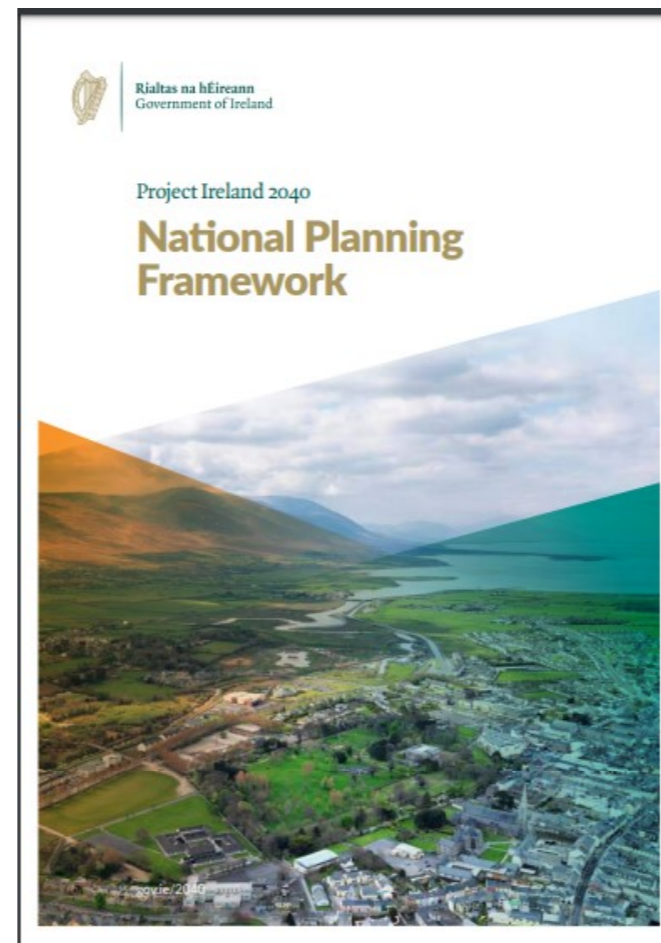
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# CDW - why?





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**By 2040 there will be roughly an extra  
one million people living in our country.**

**A total investment of approximately €116  
billion.**

**This population growth will require hundreds of  
thousands of new jobs and new homes.**



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Departments

Consultations

Publications

Policies

Language ▾



**BETA**

This is a prototype - your feedback will help us to improve it.

Policy Information

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# Construction Sector Group

Last updated: 12 April 2019

Published: 31 July 2018

From: Department of Public Expenditure and Reform

- Introduction
- Membership
- Meeting Documents

**Part of**

Policy  
Project Ireland 2040





The information included in this sheet relates to discrete infrastructure projects

Name of Project	Indicative Exchequer cost over period of Capital Allocations 2018 to 2022 €, m	Total Cost of Project €, m	Explanation for variance	Department responsible for Delivering Project	Brief Description of Project	Location (County)
Bus Connects Dublin	830	2,000	Project Runs beyond 2022	Transport, Tourism and Sport	BusConnects is an investment programme to fundamentally transform Dublin's bus system, so that journeys for passengers by bus will be fast, reliable, punctual, convenient and affordable. BusConnects represents a reimagining of bus transport for Dublin City. It encompasses a number of projects including the revamping of all aspects of the bus system; from the ticketing technology to the road infrastructure; from the bus stops to the network of routes; and from the fare structure to the vehicle emissions.	Dublin
MetroLink	810	3,000	Project Runs beyond 2022 - early-stage preliminary costing in current year values. The exact cost can only be fully established subsequent to taking on board the outcome of the public consultation	Transport, Tourism and Sport	The MetroLink project is the development of a north-south urban railway service that will run between Swords and Sandyford, connecting key destinations including Dublin Airport and the City Centre along the 26km route. There will be a total of 25 stations (including 15 new stations), 3,000 additional Park and Ride spaces, and a journey time of approximately 50	Dublin

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*“Threat to major infrastructure and housing projects as  
builders’ waste crisis looms”*

*“Construction waste and lack of landfills”*

*“Need for recycling of C&D wastes”*





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# Waste Capacity Group(s)


- MSW
- CDW (2018)





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**Construction &  
Demolition Waste**  
Soil and Stone Recovery / Disposal Capacity


Eastern Midlands Region / Connacht Ulster Region / Southern Region  
Waste Management Plans 2015 - 2021




[www.emwr.ie](http://www.emwr.ie)  
[www.curwmo.ie](http://www.curwmo.ie)  
[www.southernwasteregion.ie](http://www.southernwasteregion.ie)



southern  
waste region



connacht-ulster  
waste region



eastern - midlands  
waste region

7<sup>th</sup> Feb 2019

**Waste Treatment Capacity Analysis-Q4 2018 Bulletin & Projections  
2019**

(Including residual municipal solid waste and other relevant waste streams)



# Capacity Deficit issue in 2018



- 2018 C&D waste just managed, helped by;
  - *Export of Non-Hazardous Non-Inert soil in 2018 significant*
  - *Better practices on site (segregation) – screening / separating material so that more is taken out of the “non-hazardous, non-inert” category*

# Assessment of NDP C&D waste generation



**Table 1 C&D Waste Forecasts Low Growth Scenarios**

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Construction Output Factors	Actual Data					116.6%	111.1%	106%	104.2%	104%	104%	104%	104%	104%	104%	104%
Soil Wastes	2.3M	2.0M	2.9M	3.5M	4.3M	5.0M	5.6M	6.0M	6.2M	6.4M	6.6M	7.0M	7.2M	7.5M	7.8M	8.0M
Non-Haz, non-inert (12%)	0.4 M	0.3 M	0.5 M	0.6 M	0.6 M	0.8 M	0.8 M	0.9 M	0.9 M	1.0 M	1.0 M	1.0 M	1.1 M	1.1 M	1.2 M	1.2 M
Total C & D Waste	3.1M	2.9M	3.8M	5.1M	5.4M	6.3M	7.0M	7.4M	7.7M	8.0M	8.4M	8.7M	9.0M	9.4M	9.7M	10.2M

**Table 2 C&D Waste Forecasts High Growth Scenarios**

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Construction Output Factors	Actual Data					116.6%	111.1%	106%	106%	106%	106%	106%	106%	106%	106%	106%
Soil Wastes	2.3M	2.0M	2.9M	3.5M	4.3M	5.0M	5.6M	6.0M	6.3M	6.6M	7.0M	7.5M	7.9M	8.4M	8.9M	9.4M
Non-Haz, non-inert (12%)	0.4 M	0.3 M	0.5 M	0.6 M	0.6 M	0.8 M	0.8 M	0.9 M	0.9 M	1.0 M	1.1 M	1.1 M	1.2 M	1.3 M	1.3 M	1.4 M
Total C&D Waste	3.1M	2.9M	3.8M	5.1M	5.4M	6.3M	7.0M	7.4M	7.9M	8.3M	8.8M	9.4M	9.9M	10.5M	11.1M	11.8M



# CDW Activity



## *Crane Count Figures Dublin*

- Dec 2018 - 104
- March 2019 – 123



# Construction Waste Resource Group



- Convened June, 2018.
- Key Construction and Demolition sector and Waste sector stakeholders
- Timely
- Chair: The Department of Communications, Climate Action and Environment
- Second meeting December 2018, third meeting due 19 June, 2019



# Construction Waste Resource Group



## Subgroups:

- 1) Capacity & Projections** (*Regional Waste Management Office*)
- 2) Best Practices on Site** (*EPA*)
- 3) Enforcement & Waste Flows** (*Waste Enforcement Regional Lead Authority*)
- 4) Regulatory Processes** (*DCCAE*)

# Capacity & Projections



- On-going improvement of data collection & validation
- Production of a comprehensive CDW report for 2018 due by end 2019
- Project on notifications from construction sites



# Best Practices on Site



- Best practice guidance: waste prevention; segregation; reuse & recycling
- Mind-set
- Green public procurement

# Enforcement & Waste Flows



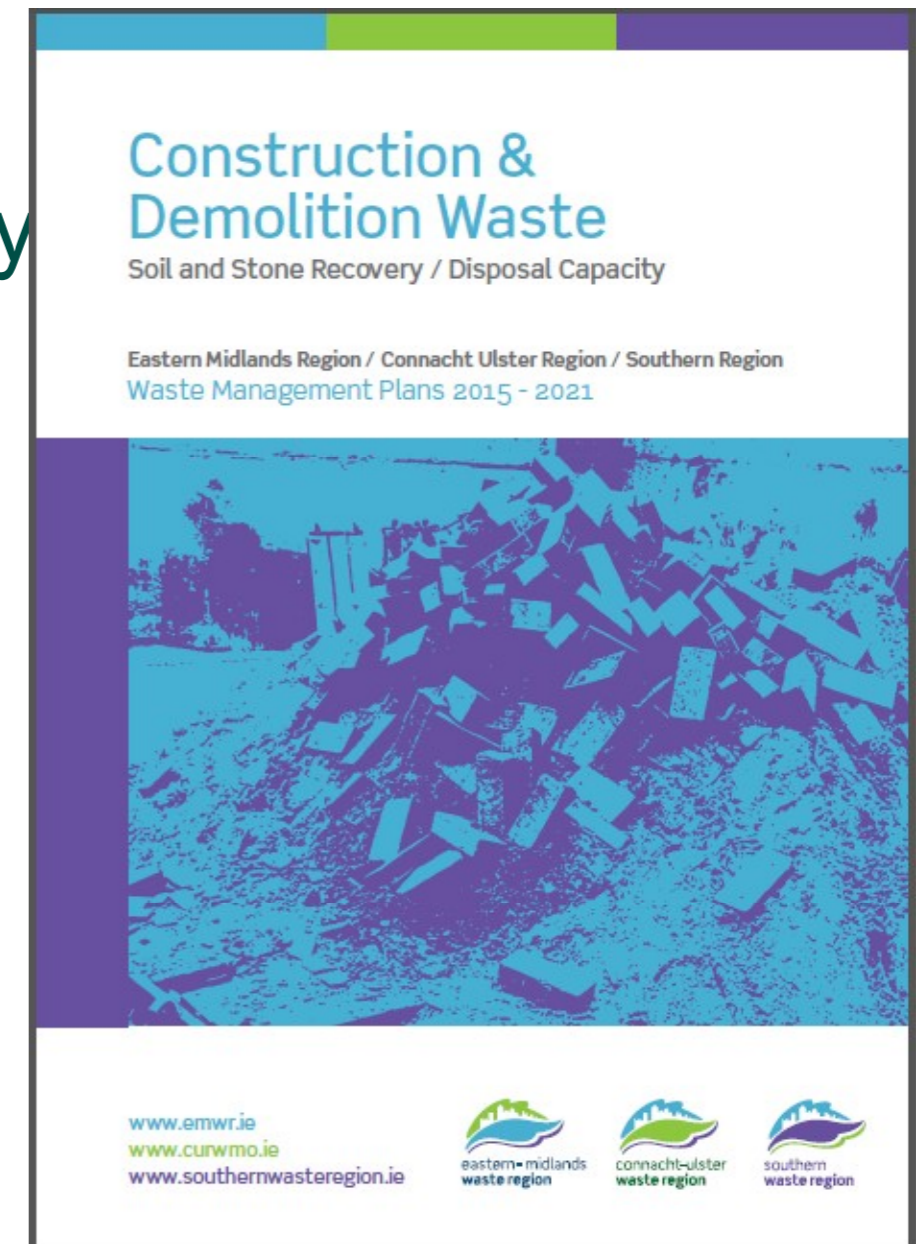
- “Best Practice” (2006)
- Reporting, monitoring and tracking
- Article 27 notifications



# REGULATORY PROCESSES



- Thresholds for local authority soil (WFP) recovery facilities
- Article 27 for soil and stone
- End of Waste for CDW



# Longer Term Strategy:



- Lower environmental impact / economic cost
- Generation and outlets (in conjunction with industry)
- New applications (on-going)
- Contingency

# If we don't get it right.....



## Waste Treatment Capacity Analysis-Q4 2018 Bulletin & Projections 2019

(Including residual municipal solid waste and other relevant waste streams)

*LOCATION OF SUITABLE OUTLETS FOR NON-HAZ, NON-INERT C&D WASTES, RUBBLE,  
CRUSHED CONCRETE AND C&D FINES ARE AREAS OF CONCERN FOR 2019*



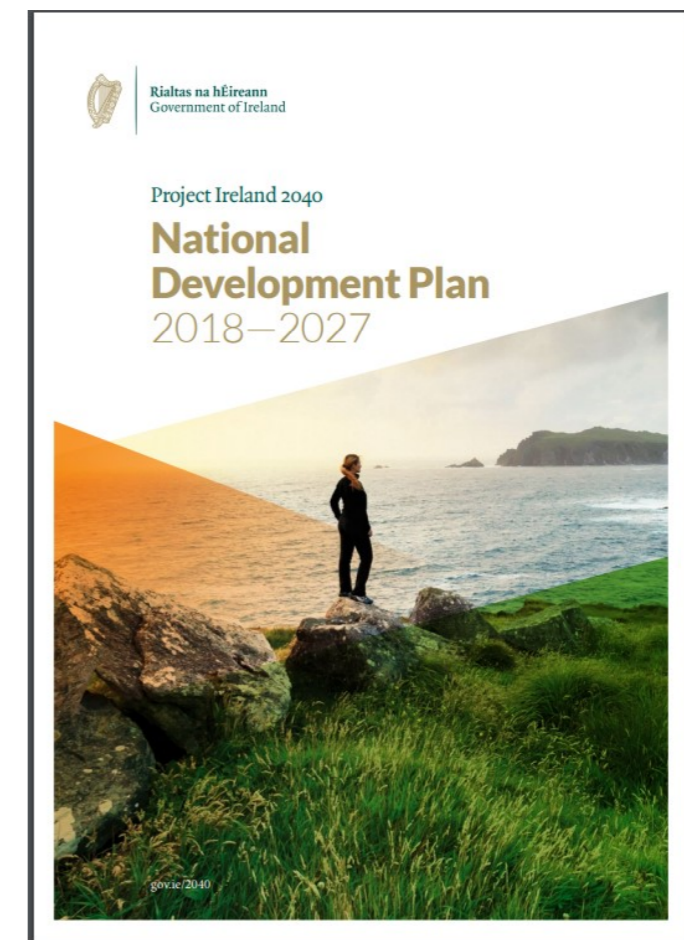
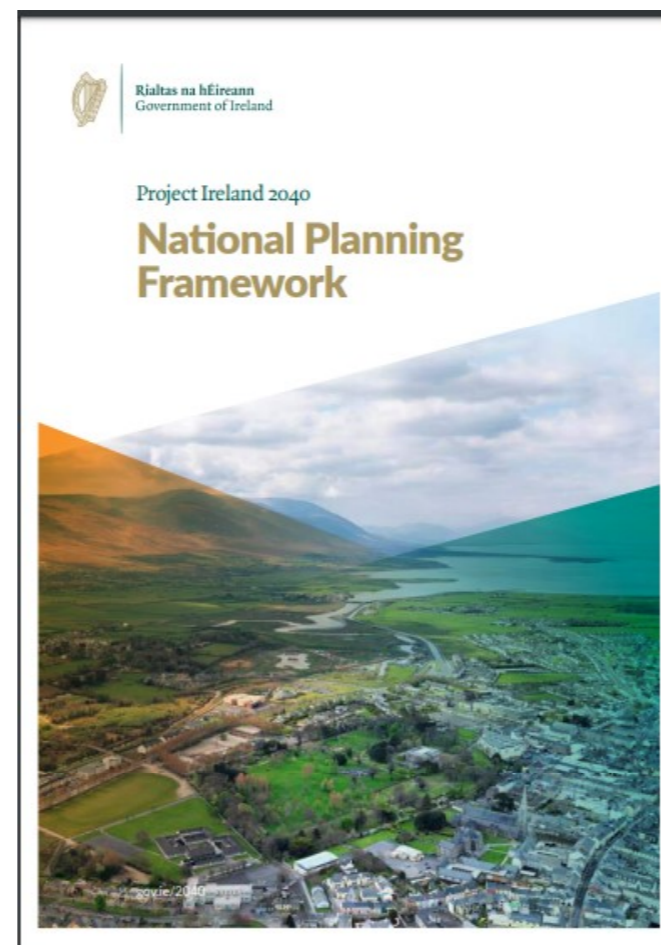
# If we don't get it right.....



communications, Climate Action & Environment



# If we don't get it right.....





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EU Directive	Target Date	Target Specifics	Reference Year	Rate	Indicator
Waste Framework Directive (2008/98/EC)	12/12/2020	Preparing for reuse and recycling of 50% by weight of household derived paper, metal, plastic & glass (calculation method 1)	2014	45%	On track Due December 2020
	12/12/2020	Preparing for reuse, recycling and other material recovery (incl. beneficial backfilling operations using waste as a substitute) of 70% by weight of C&D non-hazardous waste (excluding natural soils & stone)	2014	68%	On track Due December 2020
	12/12/2013	Establishment of a National Waste Prevention Programme (NWPP)	NWPP established in 2004		Achieved



# Climate issues



CDW has potential to displace MSW

Design / Prevention / Segregation / Recycling / Bye product

Huge opportunities



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**“It is the long history of humankind (and  
animal kind, too) that those who learned to  
collaborate and improvise most effectively  
have prevailed.” – Charles Darwin**



# Thank you!

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