

LLW Repository Ltd – ‘Delivering the UK’s Strategy for Low Level Waste Management’

Presented By:

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Head of Waste Management Services

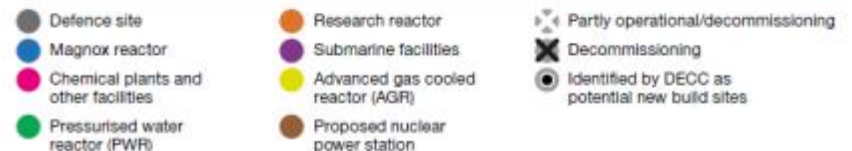
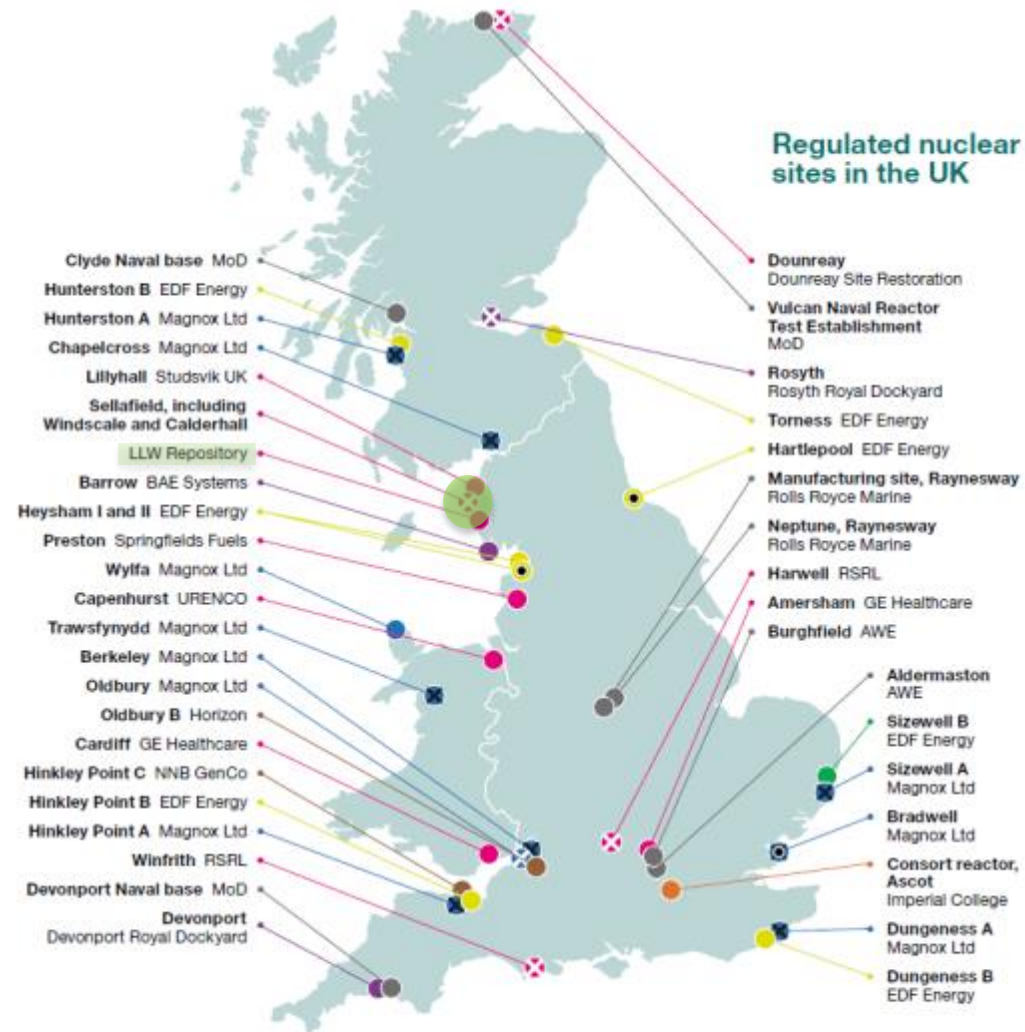
Executive Director

Our organisation is responsible for managing low level radioactive waste generated in the UK.

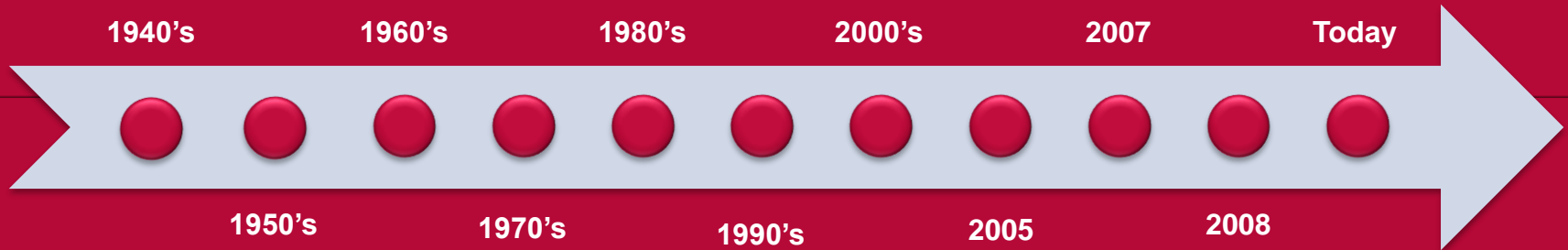
Our customers are from all sectors:-

- *Nuclear Power Plants*
- *Fuel Cycle*
- *Decommissioning*
- *Defence/Military*
- *Medical*
- *Educational*
- *Industrial*

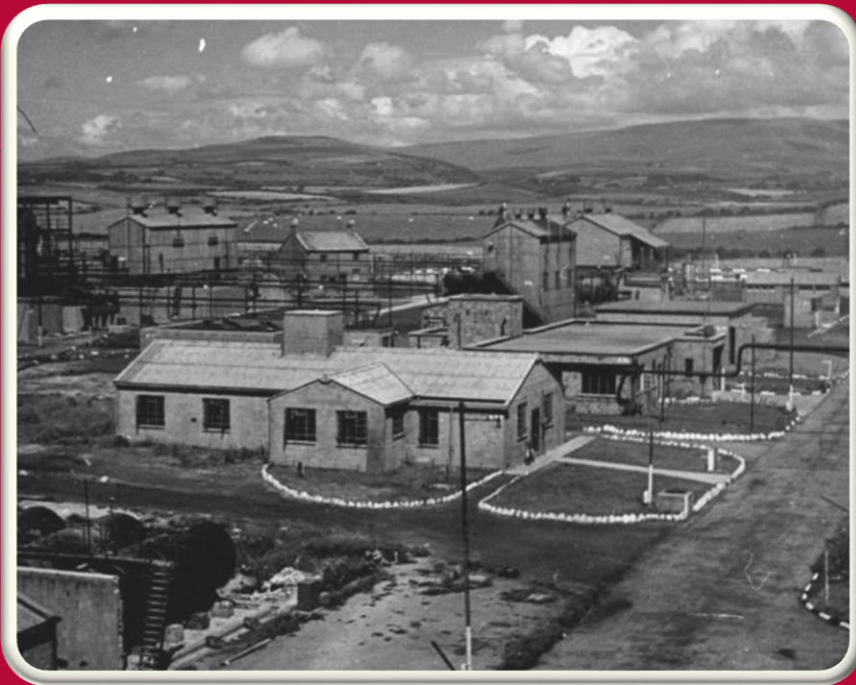
National Waste Programme



Our Site has a long history



1940's: Royal Ordnance Factory



1950's: Low Level Waste Disposal



1980's: From Trenches to Vaults



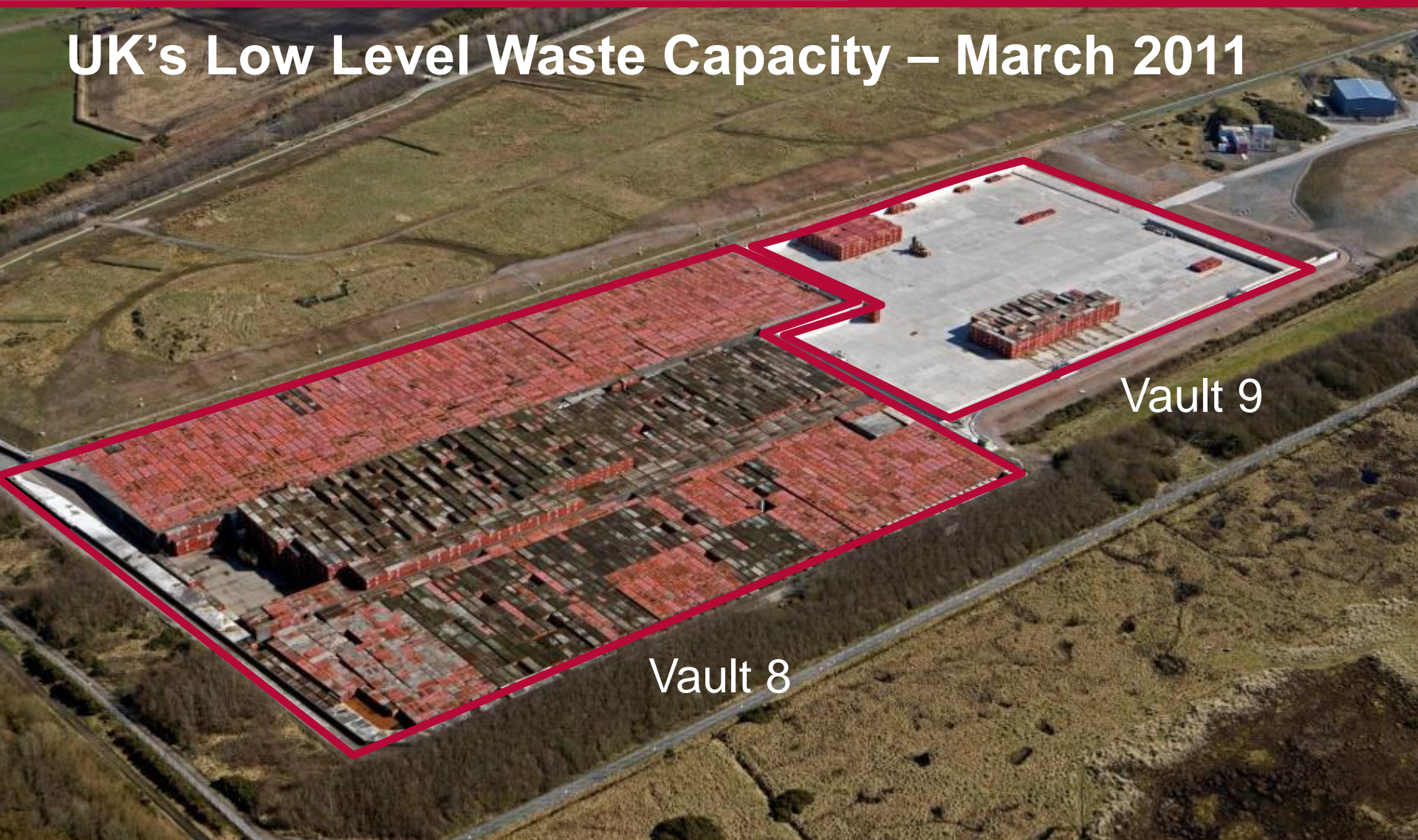
1990's: ISOfreights and Grouting







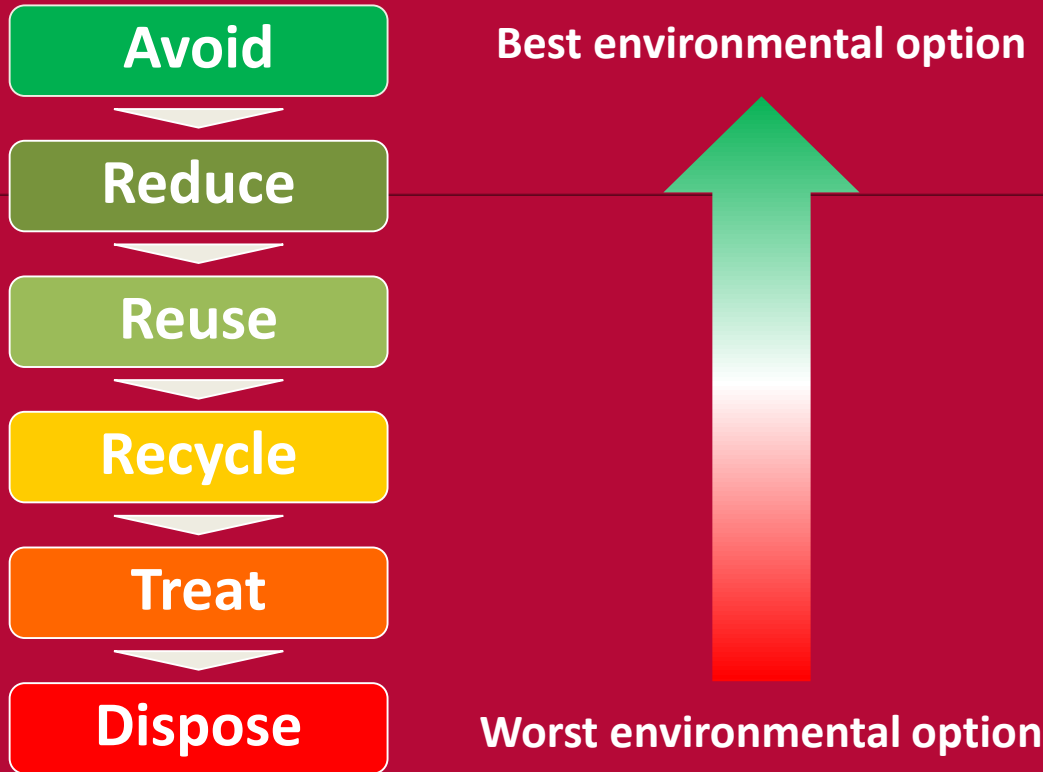
UK's Low Level Waste Capacity – March 2011



Vault 8

Vault 9

UK LLW Management Policy



1. Apply the Waste Hierarchy
2. Open new waste routes
3. Make best use of existing facilities

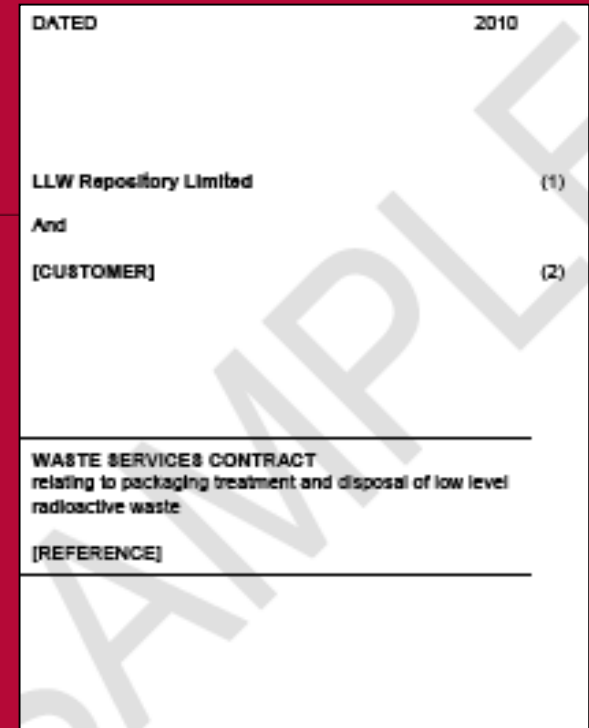
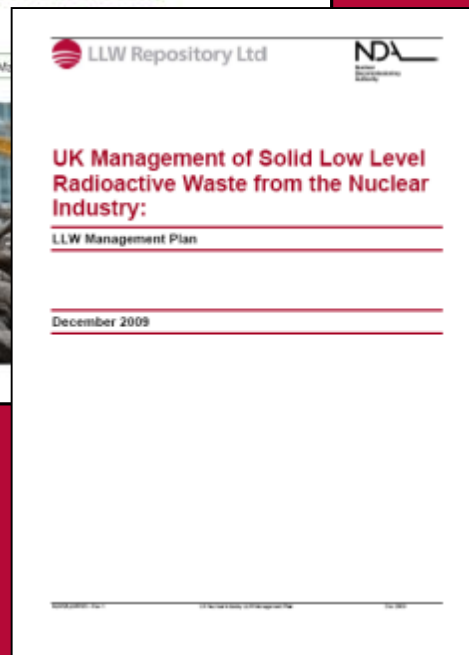
National Strategy Implementation



Why you should manage Low Level Waste...



What you should do...



How you should do it!

Waste Management Services:-

‘Helping waste producers to
implement the National LLW Strategy’



Metallic



Combustible



Waste Characterisation



Supercompactable



Low Level Waste



Packaging



Transport

Major Projects



Very Low Level Waste

Waste Services Contract

Supply Chain

W Waste Characterisation

Consultancy, sampling, analysis, interpretation, routing and measurement services to support categorisation and segregation activities.



P Packaging

Container and drum supply services from a fleet of approved IP-2 rated designs to support efficient waste packing.



T Transport

Rail and road logistics services to optimise waste transportation across the UK and reduce carbon impact.



M Metallic Waste

Segregation, size reduction, shot-blasting and melting services to treat and recycle metal.



C Combustible Waste

Thermal treatment services to burn wastes and reduce waste disposal volumes.



S Supercompactable Waste

High force compaction services to improve the packing efficiency of waste in disposal containers.



V Very Low Level Waste

Disposal services to manage the diversion and transfer of low activity low level wastes to suitable facilities.



L Low Level Waste

Disposal services to provide long term management of low level waste at the national Low Level Waste Repository.



Supply Chain

Six Years in – how are we doing..?

- All of LLWR's major customers (NDA & non-NDA) now using metallic, combustible and VLLW routes
- Waste diversion targets in place across the NDA estate
- Three landfill sites with permits to dispose of VLLW
- Additional incineration capacity coming on-line
- Waste Characterisation and Integrated Transport Services raising standards and helping the pace of change.

Containers received for disposal in 2006/07 = 754

Containers received for disposal in 2013/14 = 203

2013/14 – the headline figures...



1792te

2013 = 1040te, 2012 = 2192te



6062m³

2013 = 1665m³



2592m³

2013 = 753m³, 2012 = 300m³



107 containers down on last year

2014 = 202, 2013 = 309, 2012 = 345



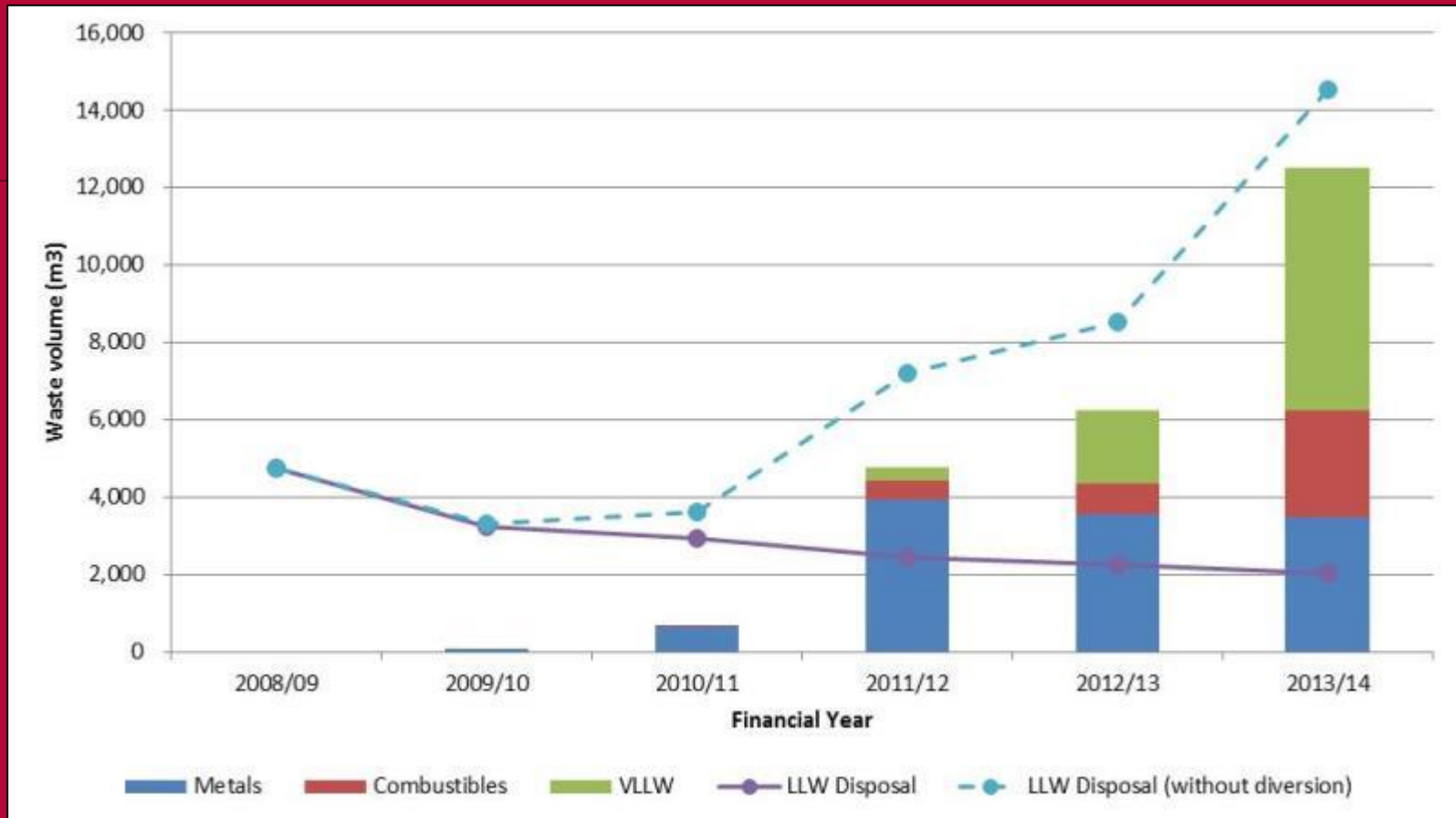
724 Road

2013 = 262

9 Rail

2013 = 5

Progress



Typical Waste Management Projects...



Key lessons –

- Policy implementation is working because...
 - We have been clear about the problem
 - We have addressed the full process (Characterisation, Packaging, Transport, Treatment, Disposal)
 - We have worked with the implementers - customers, regulators and stakeholders
 - We have provided continuity
- Policy implementation is working despite...
 - Competing priorities / incentives
 - Incidents, accidents and supply chain dilemmas
 - Continuous challenge and scrutiny

Managing the UK's Low Level Waste is a long term business....

‘We’re six years in, only one hundred and fourteen to go...’

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What is Low Level Waste?

LLW Definition:

< 4,000 Bq/g Alpha

< 12,000 Bq/g Beta/Gamma

HV VLLW Subcategory:

< 4 Bq/g Total Activity

LA LLW – facility dependant

Intermediate Level Waste

> 4,000 Bq/g Alpha

> 12,000 Bq/g Beta/Gamma

High Level Waste

> 4,000 Bq/g Alpha

> 12,000 Bq/g Beta/Gamma

+ Heat generating



LLW



ILW



HLW