

# International Deep Repository Progress: Status of the UK Programme

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# Managing Radioactive Waste Safely (MRWS)

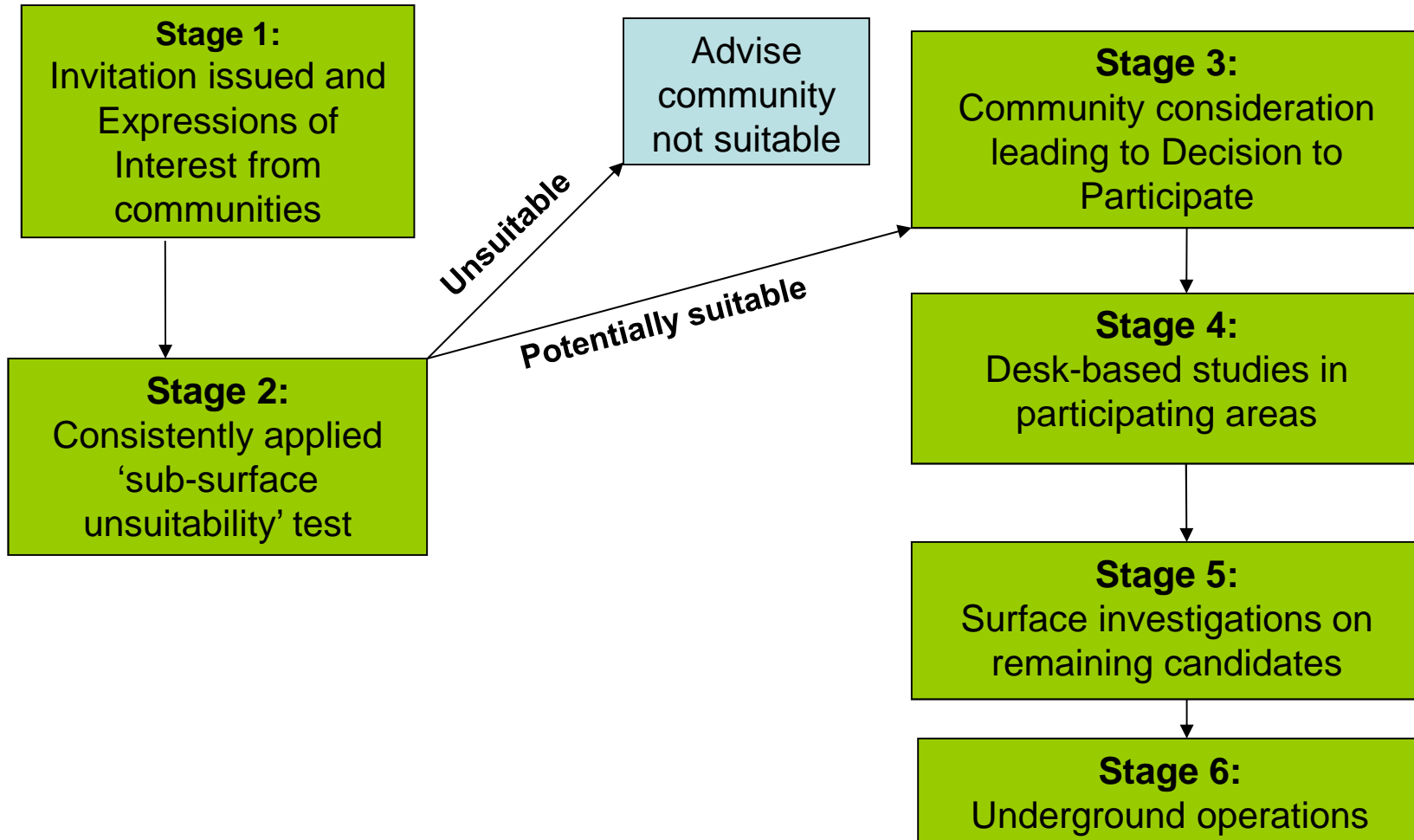
Work	Timing
The MRWS consultation process	2001-02
<ul style="list-style-type: none"><li>- Establishment of Committee on Radioactive Waste Management (CoRWM)</li><li>- Research and public debate involving option evaluation, using public and stakeholder engagement and the best available scientific knowledge</li><li>- Government decision on the option to implement</li></ul>	2002-06
Consultation on the Government's framework for implementing its preferred option	2007
Implementation of preferred option	2008 onwards

# Government Policy

- **Published June 2008**
- **Government's framework for managing higher activity radioactive waste through geological disposal**
- **NDA as implementing body committed to:**
  - Programme of R&D
  - Development of RWMD into delivery organisation
  - Preparation and planning for geological disposal
- **Geological disposal policy doesn't cover Scotland**

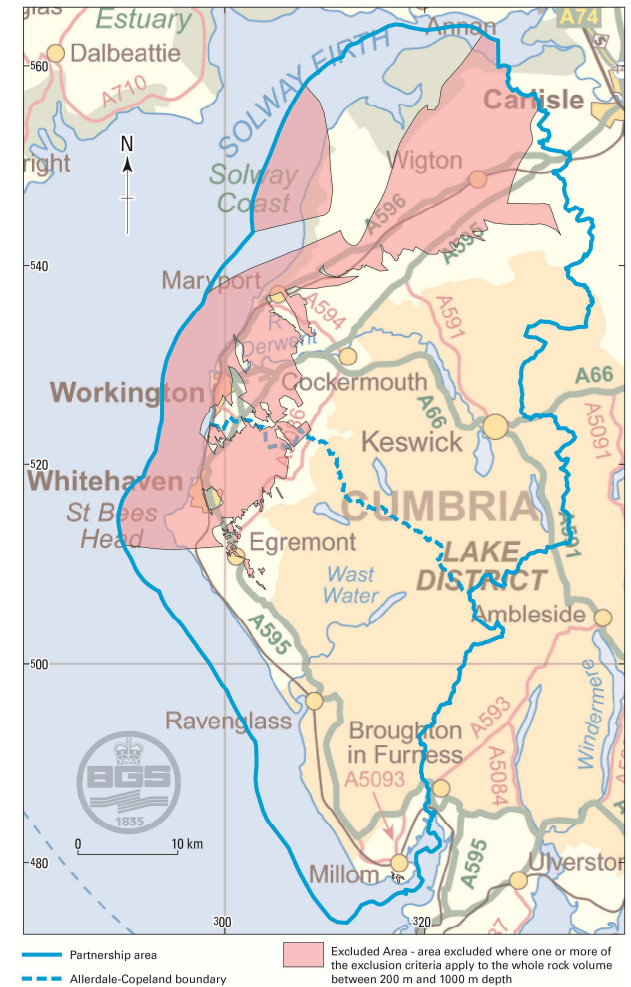


# The site selection process



# Progress with identifying a potential host community

- 3 Expressions of Interest (for 2 areas)
- Local engagement on issues including
  - Safety
  - Community benefits
  - Siting/Planning
  - Tourism impacts
  - Inventory
- British Geological Survey initial sub surface unsuitability test
- Local authorities (Decision Making Bodies) made a decision on 30<sup>th</sup> January 2013 not to participate in the process



# Progress with identifying further potential host communities

- Shepway District Council took 'soundings' Romney Marsh Nuclear Research & Disposal Facility
- Produced web site, leaflets, held public meetings, gave presentations and wrote to all businesses and residents
- Over 3,300 responses, 63% negative
- 19 September 2012 decided not to make an Expression of Interest





# The legacy

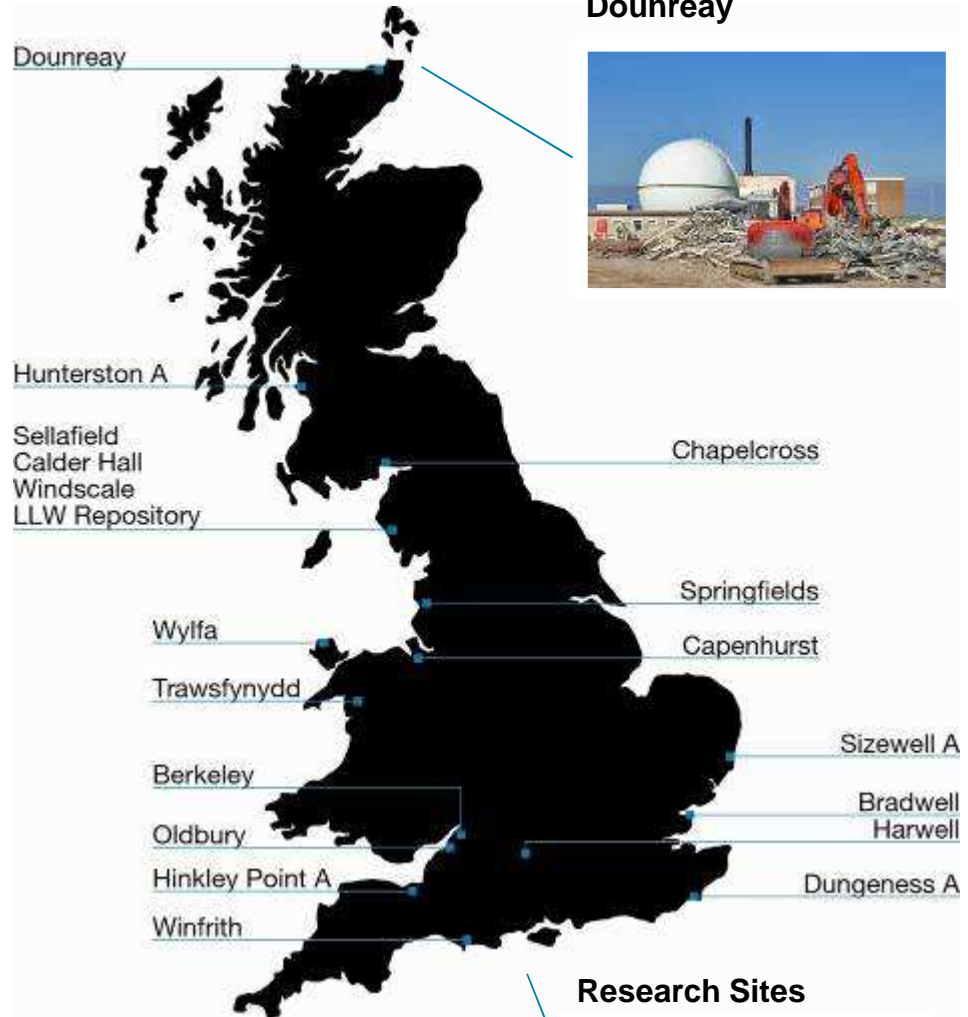
## Sellafield



## Magnox



NDA



## Dounreay



## Research Sites

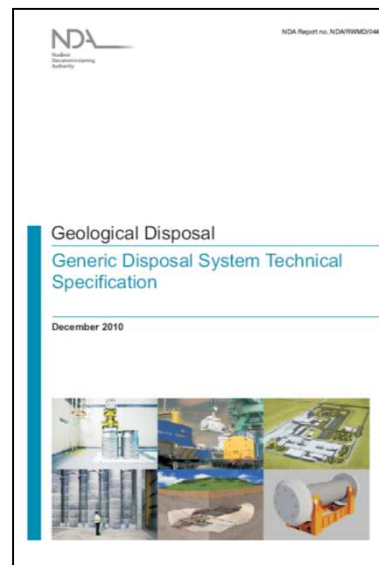
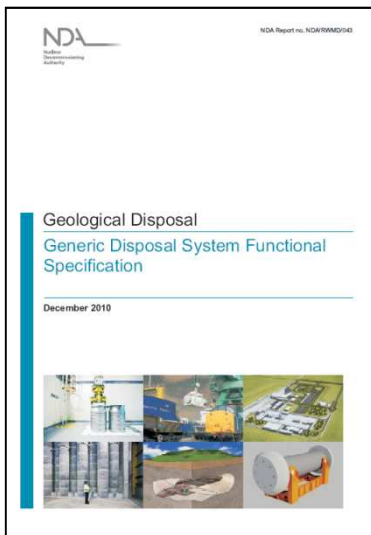


# Volumes of waste

Waste / Material	2010 Baseline Inventory	Upper Inventory as estimated in 2010
Low Level Waste (m <sup>3</sup> )	13,800	150,000
Intermediate Level Waste (m <sup>3</sup> )	490,000	786,000
High level waste (m <sup>3</sup> )	6,910	12,000
Spent fuel (m <sup>3</sup> )	6,440	22,200
Plutonium (m <sup>3</sup> )	7,820	10,400
Uranium (m <sup>3</sup> )	106,000	183,000
<b>Total (m<sup>3</sup>)</b>	<b>631,000</b>	<b>1,160,000</b>

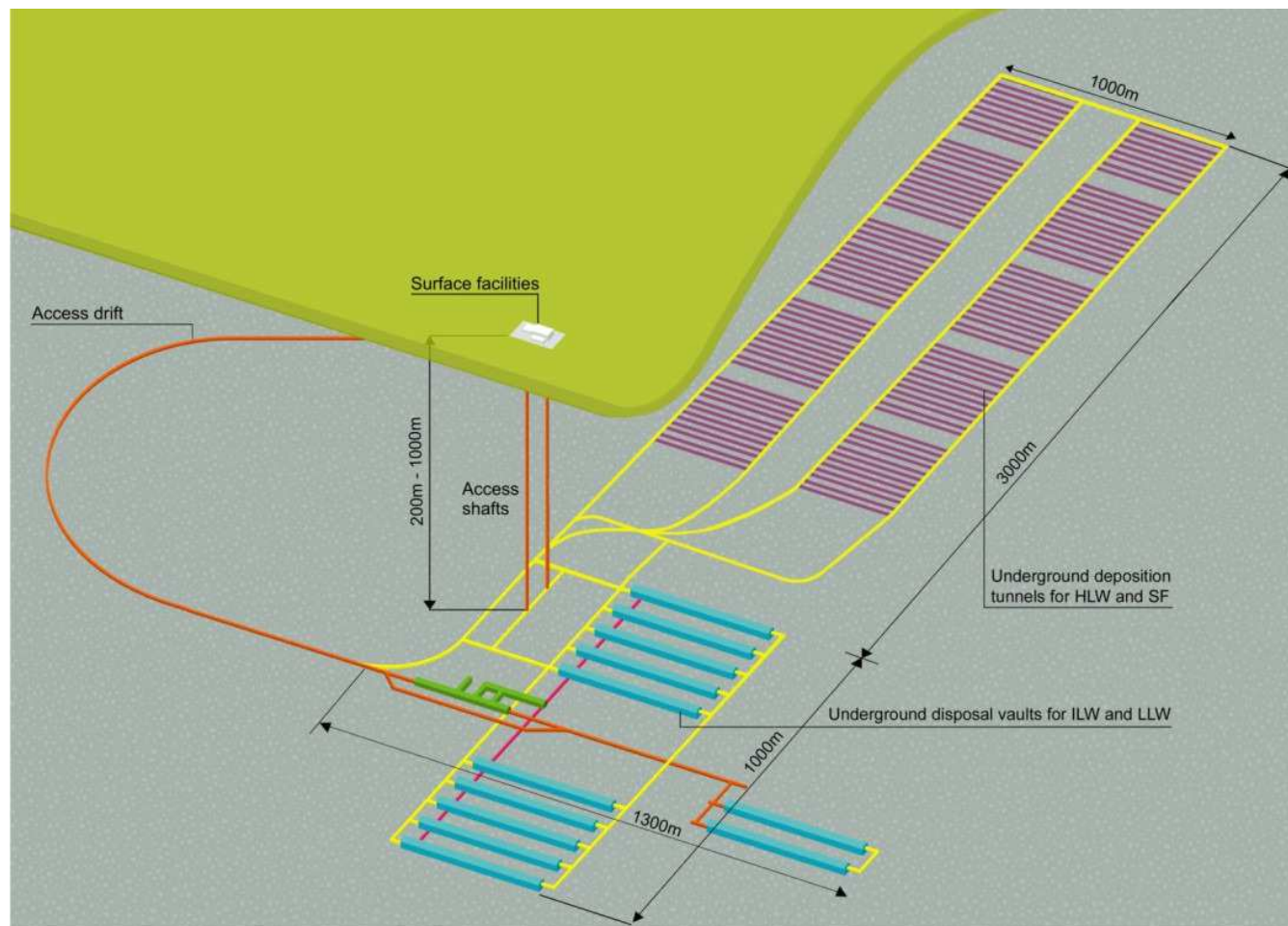


# Disposal system specification



- **Disposal system specification**
  - What the disposal system needs to deliver
- **Generic waste package specification**
  - What the wasteform and waste container combination needs to deliver
- **Based on illustrative disposal concepts for three generic geological settings**

# Geological disposal facility



# Future programme – policy

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- **The MRWS process continues**
  - UK Government is committed to geological disposal
  - UK Government is committed to voluntarism
- **Need BOTH willing community AND suitable geology**
  - Must be shown to meet all the stringent safety regulations before a GDF can be built
- **Opportunities for other communities to express an interest**
  - Review of process to identify improvements
  - New drive to find other communities

# Future programme – science

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- **Expanding our knowledge base**
- **Structuring disposal system requirements**
- **Focussing on safety functions**
  - Developing underpinning information
- **Developing an approach to technology transfer**
- **Identifying key information to support decision making**