Technological demonstrators of construction, operations and closure of deep geological disposal

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Content

• Why?
• What?
• When?

→ Lessons learnt
Dealing with existing Radwaste

Generally country specific, unique solutions only
Specific Challenge

Design solutions easily developed on paper

In reality proven technology to be applied only
Need for Technological Demonstrators

- Commercial reliability
- Other technological areas
- Nuclear safety
- Other RWM projects

Use of proven technology only
Technological Demonstrators for Waste Handling
Technological Demonstrators for Transport

(DBE)

(ANDRA)
Technological Demonstrators for Emplacement
Technological Demonstrators for Long-term Safety
Technological Demonstrators for Abnormal Operation
Lessons Learnt

• Iterative development of DGR design
• Substantial influence of operational ‘reality’ constraints on DGR design
• Major design principles
  – Simple and robust technology
  – Minimised manipulation, but close control

➔ Feasibility and safety of DGR proved by Technological Demonstration
Thank you for your attention!