

Workshop on Next Generation Knowledge Management System for geological disposal of radioactive waste

BGS View

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Applied geoscience for our changing Earth

- BGS has been involved in KMS since 1835 (not as long as the library at Alexandria...)
- Legally obliged to keep geological records for UK onshore and offshore
- A national resource
- Keepers of information from the Nirex Sellafield investigations
- We are facing how to handle increasing amounts of information







Generally

- Explosion of information with variable quality
- Internet generation think that nothing exists before 2000. If it's not on the web then it doesn't exist. Potential for past work to be ignored/forgotten/reinvented.
- In many technical professions there is (2) generation gap especially nuclear industry
- How to fill this quickly, efficiently. Brain dumps from experts (airline industry)
- Waste of money if nothing happens...

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- KMS is essential if knowledge is to be available and not lost (reinvention of information)
- CoolRep website approach is crucial as outward face of KMS and links with all stakeholders
- No jargon, everyday language at highest levels
- QA of information is essential
- Reactive, interactive, rapid responses
- Must show links between decision making and KM for all users



Thoughts from yesterday

- Philosophy of CoolRep and KMS needs developing
- Map of methodologies and tools in context of Safety Case (Single Unifying and Balancing Data System – SINBAD)
- Complex decision making process needs to be included e.g deciding on research priorities (and interfacing with regulator, implementor...)
- Consider levels of proof required
- Stop developing tools and test/develop what you have...e.g Cu corrosion issue facing SKB -> will show limitations

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- Other industries will find this approach useful
- CCS will also be facing same problems and issues – cross fertilisation would be helpful.
 JAEA is leading the way here



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What is climate change?

• What is climate change?

How can CO₂ be stored?

How does the greenhouse effect work?
 Human influence on climate change
 How do power stations capture CO2?

Climate change means a long term change in the

☐ 🚇 Internet

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What is carbon capture and storage (CCS)?

— Video: responding to the impact of climate change.

Clearer skies for China