#### Internationale soziale und politische Aspekte bei der Endlagerung hoch radioaktiver Abfälle

Sitzung Endlagerkommission "Internationale Erfahrungen" am 05.12.2014 Prof. Dr. Anne Bergmans



Nuclear Waste Shipment Routes

tom-Deal stop

compact.

### what if this had been a radioactive waste train?



111 March 10 August

#### stop a mobil

# Soziale und politische Aspekte?

The partnership concept





#### Technische Aspekte ?

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Surface facilities

> Access shats

Host rock

Conditioned waste in container

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### Technology as a social aspect

Technology is inherently social

- Conceived, developed and used by humans
- Social function
  - Convenience
  - Profit
  - Comfort
  - Safety



#### Content

- 'The social' and 'the technical': inherently connected
- A word on technical democracy
- Safety and time as crucial 'social' aspects
- Geological disposal as a controlled, open-ended exploration
- Elements to support a flexible long-term strategy
- Examples from other countries

#### Safety and trust in safety systems



#### Time as a crucial 'social' aspect





### No classical project-based approach

Final (geological) disposal

- not as an 'product' or the final 'solution' today
- but as a potential way towards achieving that
- A controlled, open-ended exploration towards a possible solution
- Implies a flexible LT management strategy and policy
- Example: French national policy combining
- P&T research for new waste types
- Reversible geological disposal for reprocessed waste
- Storage as a 'continuous intermediary'

#### Long-term governance strategies

Based on the notion of technical democracy

- Engaging in long-term relationship with (potential) host communities
- ! Waste sits already somewhere

International examples at the national and local/regional level to show there are ways of putting this into practice

#### National

Swedish National Council for Nuclear Waste UK Committee on Radioactive Waste Management (CoRWM)

Broadly composed 'expert' committees with link to civil society Interdisciplinary, independent and transparency Advisory role & 'knowledge base'

### Local / Regional

Belgian Local Partnerships for LILW Swedish Dialogues Programme West Cumbria Managing Radioactive Waste Safely Partnership

Early involvement (also from regulator) Integrated project ADD (Announce – Discuss – Decide) instead of DAD From siting to hosting and the need for a (near) long-term governance process Monitoring and control as key issues

# Meaningfully engaging with stakeholders on RWM

Experience has shown it is possible

- In research phase (cf. MoDeRn)
- At the national level (cf. CoRWM1 UK)
- At the local level siting (cf. local partnerships BE ; siting process HLW Sweden)
- After siting (cf. cAt BE)

For different aspects of RWM / GD, including the technology

# Meaningfully engaging with stakeholders on RWM

Provided ...

- things are put in perspective
- initiatives are adapted to the context
- there is clarity (and agreement) on purpose
- complexity is embraced
- time is allowed to be invested



