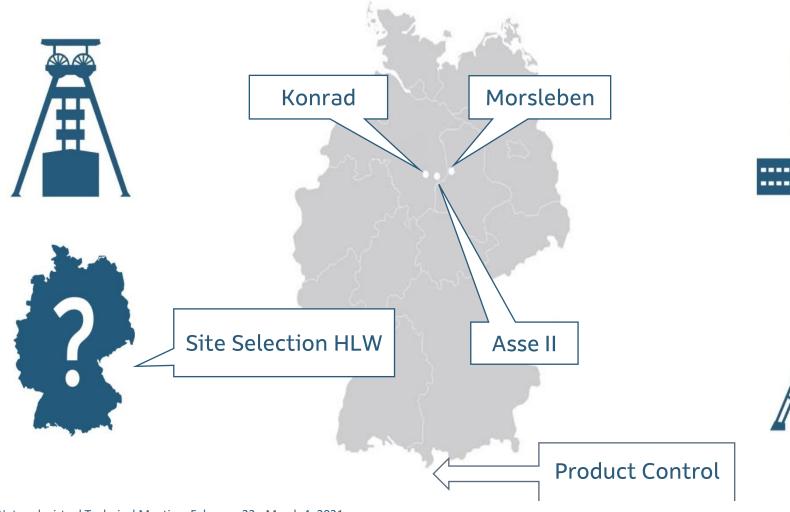


# Federal Company for Radioactive Waste Disposal (BGE) – Tasks & Projects









## Asse Mine (former URL): main issues of current work



Preventive Measures to stabilize the mine (backfilling) and to avoid water

intrusion into the disposal fields (construction of drift seals)

Preparatory work for retrieval of waste package:

- planning of the infrastructure for retrieval:
  - Analysis of boundary conditions in the disposal chambers
  - site investigations for a new shaft and technical planning
  - new infrastructure underground (drifts, chambers, installations)
  - conceptual planning of retrieval work
  - Development of adequate equipment for retrieval work
  - Planning for surface installations (Conditioning plant, Interim Storage Facilities)



## Asse Mine: Strategies for Waste Retrieval



Procurement by

tender for develop-

ment of technolo-

gies has been

started



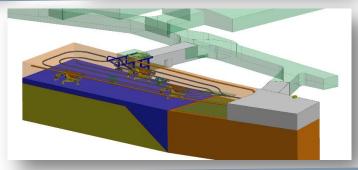


#### **Conceptual strategies**

511 m-level MAW-chamber

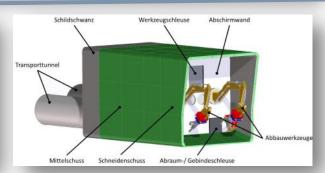
725 m-level LAW-chambers





750 m-level LAW-chambers



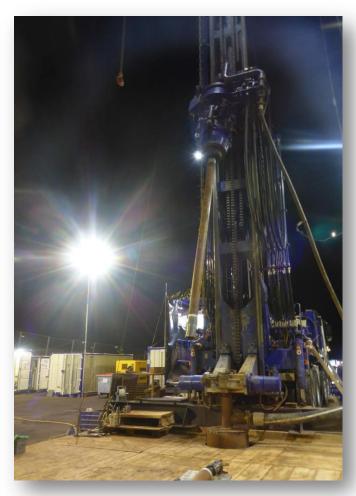




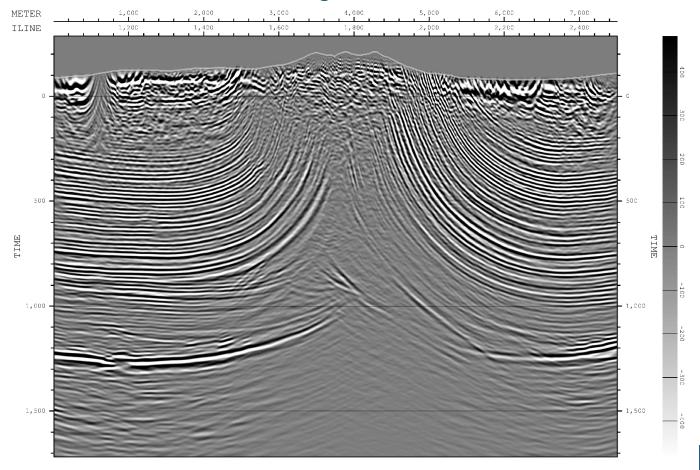
# Asse Mine, Building infrastructure for retrieval (Shaft)



#### **Exploration drilling**



#### Seismic investigations





## **Asse Mine**

Conceptual planning for surface facilities at shaft 5 and conditioning plant / interim storage facilities





## Konrad Repository: Main issues of current work



#### **Surface Facilities:**

- New hoisting tower und machine building shaft 1 (conventional site)
- Renewal of shaft lining and shaft installations at shaft 1 and shaft 2
- New ventilation installations
- Infrastructure buildings (Workshops, stores, social buildings, safety installations etc.)

Licensing of technical equipment for repository operation (e.g. vehicles for transport, waste handling, backfilling)

## **Underground Facilities:**

- Excavation and stabilization of shaft landing 2
- Excavation and stabilization of infrastructure mine openings
- Excavation of disposal drifts

Planned commissioning: 2027



# Konrad Repository: Surface Facilities Nuclear Site



Modell of future surface facilities (shaft 2)



Construction work at shaft building and infrastructure buildings



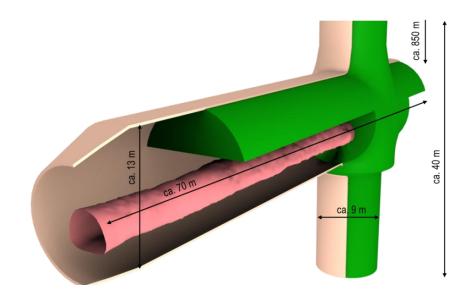


# Konrad Repository: Underground Construction Work



Installation of concrete lining at landing station shaft 2







## Morsleben Repository: Main issues of current work







### Site Selection Procedure





Publication of interim report: sub-areas with favorable geological conditions

Decision on surface exploration \* (§ 15 StandAG)

Decision on underground exploration \* (§ 17 StandAG)

Site decision \* 2031

Phase I

Phase II

Phase III

#### **Step 1:**

Identification of sub-areas (§ 13 StandAG)

#### Step 2:

Identification of siting regions for surface exploration (§ 14 StandAG)

Surface exploration and proposal for underground exploration (§ 16 StandAG) Underground exploration (§ 18 StandAG)

Conclusive comparison of sites & site proposal (§ 19 StandAG)

\* Adoption of national legal act (Bundestag & Bundesrat)

1.1 Application of exclusion criteria

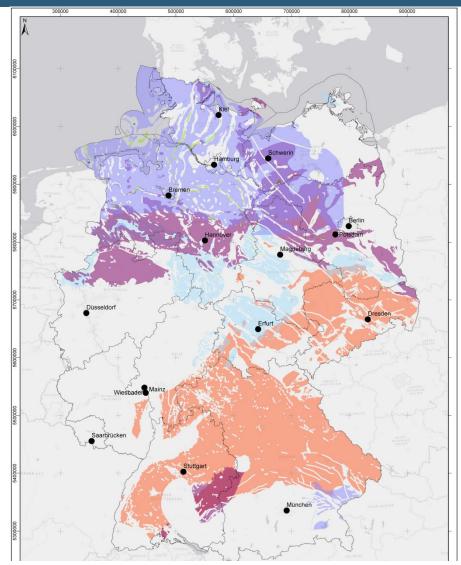
1.2 Application of minimum requirements

1.3 Application of geo-scientific weighing criteria



## Site Selection Procedure for a HLW Repository





# Results of the first step of Site Selection Procedure (Sub-area – Report)

dark blue - Tertiary Clay
purple - Pre-tertiary Clay
light blue - stratiform Salt
green - salt dome
orange - crystalline rock





Thanks for your attention!

