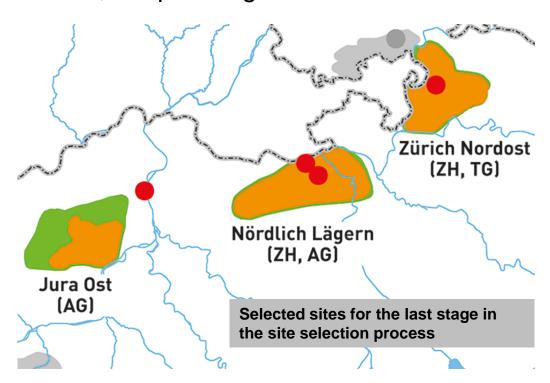
Nagra RD&D perspective

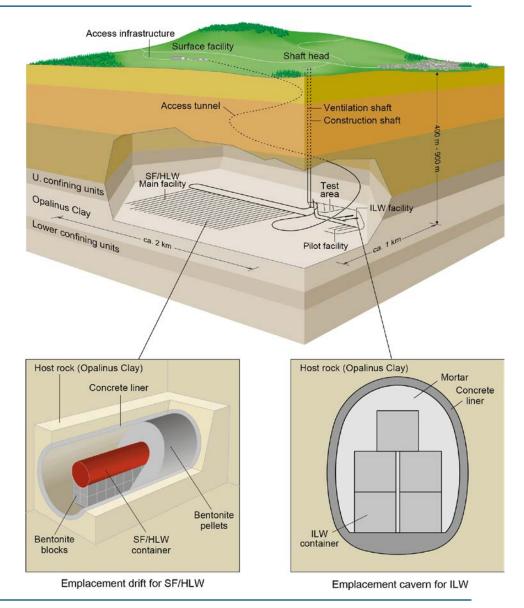
Irina Gaus, Head of Research and Development



Programme stage

- Next milestone: submission of the general licence fixing the site and the conceptual design of the geological repositories
- Site characterisation in three sites at full speed: 3D seismics, deep drilling







Highest RD&D priorities – deadline 2023

- Understanding of the glacial and other erosion processes at the selected sites close to the Alps (mainly HLW)
- Demonstration of gas transport in sand/bentonite seals in case the permeability of the clay hostrock is very low (mainly LLW)
- Desk based development of a tunnel construction method requiring minimal support at greater depth reliable assessment (and constraining) of the EDZ development
- Developing a facies specific geomechanical database based on drilling outcomes and in-situ stress estimation at different scales
- Developing a monitoring concept (integrating Modern 2020)

Drivers of the RD&D priorities/topics

- Understanding of the glacial and other erosion processes at the selected sites close to the Alps (mainly HLW)
 - performance assessment and site selection
- Demonstration of gas transport in sand/bentonite seals in case the permeability of the clay hostrock is very low (mainly LLW)
 - performance assessment, optimization for safety
- Desk based development of a tunnel construction method requiring minimal support at greater depth including a reliable assessment (and constraining) of the EDZ development
 - construction feasibility, optimization
- Developing a facies specific geomechanical database based on drilling outcomes and in-situ stress estimation at different scales
 - performance assessment and site selection
- Developing a monitoring concept (integrating Modern 2020)
 - regulatory requirement

thank you for your attention

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