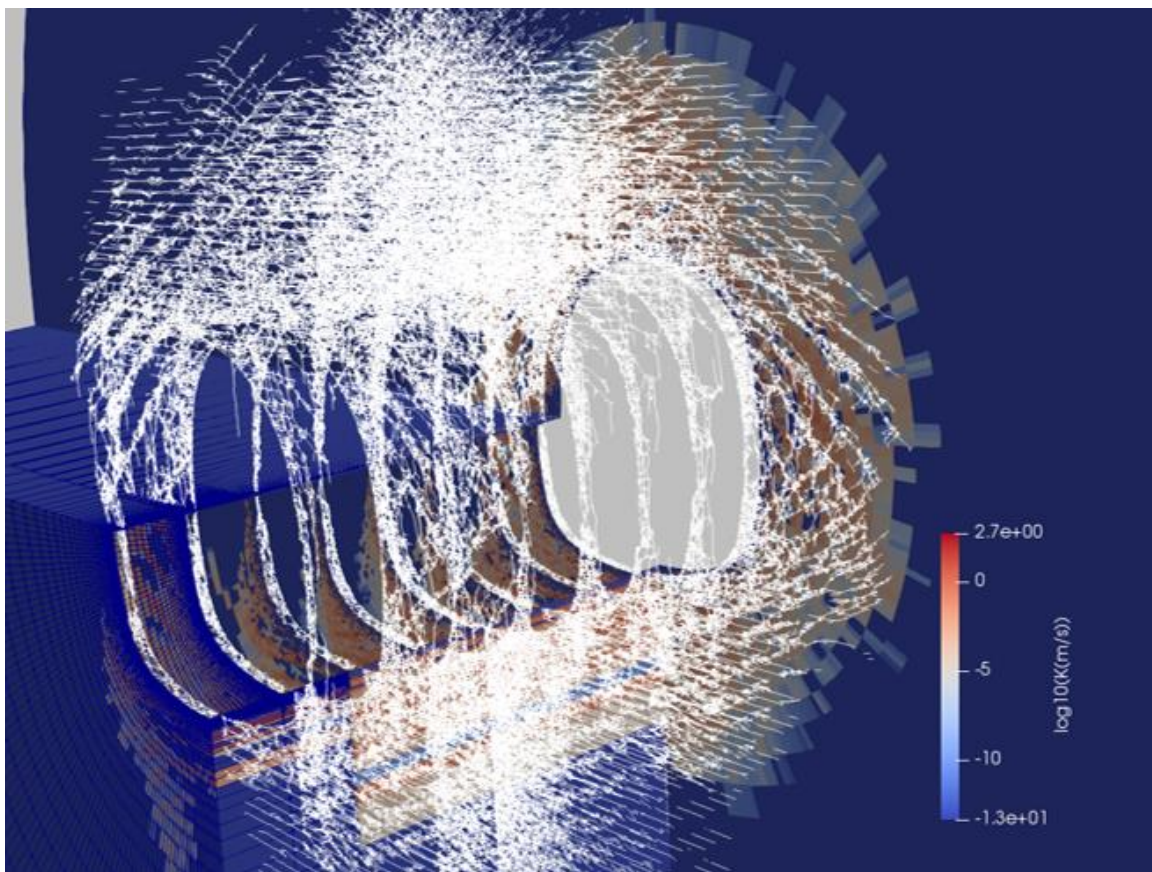


*Hydromechanical characterization of the Excavation
Damaged Zone around excavated structures at the
proposed siting regions in for the storage of
Low/Intermediate Level Radioactive Waste (ILW).*

Client: Nagra

Keywords: EDZ, Hydromechanical modelling, upscaling, radioactive waste disposal



Summary: A sensitivity analysis to the hydromechanical behavior of the EDZ around the horse-shoe shaped galleries for a low/intermediate waste repository has been carried out. We aim at evaluating the hydraulic significance of the EDZ accounting for the different stress states expected at the siting regions for a radioactive waste repository in Switzerland. The initial characterization of the EDZ was carried out by Geomechanica Inc. The temporal evolution of EDZ parameters was modelled by HydroGeoModels AG.