

# Conclusions of parallel session 3 on EDZ

---



# Clay rocks: status on knowledge

- **EDZ is not a major issue for PA. Scientific understanding is of major importance to build confidence**
- **Initial EDZ features and mechanisms are now well characterized**
  - Key processes are well knowed
  - Large data base on samples and in situ experiments
  - Conceptual model exists
- **HM unloading not still well modelised**
- **Multiple evidence of self sealing (permeability)**
- **Data are now available on unsaturation and thermal effects on EDZ :**
  - Unsaturation increase damage but in a transient phase with a very limited extension, not jeopardize self sealing for long term
  - Probably T is benefit for self sealing
  - Need to improve knowledge to validate first observations : TIMODAS Project for T effect...
- **Oxidation due to ventilation is limited to the EDZ extension, no significant effect on self sealing (permeability)**

# Clay rocks: open issues

- **Hydraulic self sealing vs. Solute transport self sealing: effect of initial fractures?...**
- **Gas properties of EDZ vs. EDZ evolution**
- **Initial HM unloading extension**