



Digital Twins in Radioactive Waste Management

Free webinar on 16 February 2022, 13-16 CET

Agenda:

13:00 to 15:20 Presentations

- 13:00-13:15 Welcome & Introduction (Erika Holt, VTT and Louise Theodon, ANDRA)
- 13:15-13:30 Examples and opportunities for digital twins in the nuclear back-end (István Szőke, IFE)
- 13:30-13:45 Digital twins in PREDIS (Dan Miron, PSI)
- 13:45-14:05 Digital twins in EURAD
- DONUT on numerical modelling of coupled processes (Francis Claret, BRGM)
 - ACED on chemical evolution of disposal cells (Diederik Jacques, SCK CEN)
 - HITEC on influence of high temperature on clay behaviour (Markus Olin, VTT)
 - MODATS on repository monitoring (Johan Bertrand, ANDRA)
 - FUTURE on radionuclide retention (Sergey Churakov, PSI)
- 14:05-14:10 *break*
- 14:55-15:10 Digital twins in construction (Dag Fjeld Edvardsen, Catenda)
- 14:10-14:25 Inventory twins and their applications from construction to decommissioning (Katja Sipilä, Sweco)
- 14:25-14:40 Digital twins in support of dismantling projects (Arnaud Duchene, Tractebel)
- 14:40-14:55 From BIM towards a 4D digital twin of Cigeo repository in support of the operational phase: issues, needs and work in progress (Guillaume Pepin, ANDRA)
- 15:10-15:20 *break*

15:20 to 15:50 Breakout Room Discussions

- What are the opportunities for digital twin technology in the radioactive waste domain?
- What are the challenges for adoption of digital twin technology?
- How can EURAD/PREDIS best assist successful deployment of digital twin technology?

15:50 to 16:00 Close

- 15:50-16:00 Feedback from breakout rooms / Summary and Conclusions
- 16:00 Adiuorn

