

Baltic Sea Underground Innovation Network (BSUIN)

BSUIN Partnership

- University of Oulu, Kerttu Saalasti Institute **UO**
- Oulu University of Applied Sciences **OUMK**
- German Research Center for Geosciences **GFZ**
- TU Bergacademia Freiberg **TUBAF**
- NCBJ Lodz **NCBJ**
- University of Silesia in Katowice **USK**
- KGHM Cuprum **CUPRUM**
- SKB AB **SKB**
- Sotkamo Silver AB **SSILVER**
- Baltic Scientific Instruments **BSI**
- Tallin Technical University, **TTU**
- Vilnius University **VU**
- Khlopin Institute, St Petersburg **KHLOPIN**
- Karelian Research Center **KaRC**



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The Henryk Niewodniczański Institute of Nuclear Physics PAN as associated organisation



“Underground Locations”

(existing & potential labs)
which are managed by BSUIN
partners

- ☐ Callio Lab, Pyhäsalmi mine, Finland
- ☐ Äspö Hard Rock Laboratory, Oskarshamn, Sweden
- ☐ TU-Freiberg’s Research and Education mine “Reiche Zeche
- ☐ Cuprum, copper mine
- ☐ Ruskeala
- ☐ Underground Laboratory of Khlopin Institute



BSUIN objective

Make the joint service offerings of BSR ULs the **world's leading underground infrastructure** for scientific and commercial activities in terms of the quality of

- Technical data about the facilities
- Operations: services, innovation management, accessibility
- User experience
- Safety
- Dissemination of information

BSUIN objective -h

- Bind UI's into network (bussines and propaganda)
- Create standard rules for access UI's (contact person, safety rules, etc)
- Create standard methods of UI's characterization (especially for natural radioactivity background characterization)

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Pilot program in Pyhasalmi mine:

- Measurements of natural radioactivity background (α , β , γ radiation, neutron flux, muon flux, radon level)
- 3 years for measurements (2018-2020)
- opportunity to test „nonstandard” methods

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