

## Borehole informatics: scientific drilling as an information science

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Borehole drilling is a method to explore deep subsurface and the only way to confirm the material and measure the in-situ environment directly and precisely. We have been using materials and datasets from deep targets by drilling, but datasets we can get are many more and of various kinds, most of which have not been even acquired. Expansion of data we get through drilling and extraction of information from the data, sophistication and integration of the information for drastic improvements of our scientific understanding of the subsurface; this is the borehole informatics.

The presentation introduces our challenges to acquire more data from drilling operations and subsurface materials, and what we see next.

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