

Kola superdeep borehole

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The Kola Borehole was one of the most ambitious geological projects of the 20th century, aimed at studying the depths of the Earth's crust. The project was planned as a response to the American "Mohole" program and soon evolved into a scientific and strategic experiment. This presentation discusses the reasons for drilling the borehole, the logic behind the selection of its location, and the expected scientific outcomes.

Special attention will be given to the technical challenges, such as high temperatures, pressure, drilling difficulties, and unexpected discoveries, including microfossils and traces of water found at great depths. Additionally, we will analyze how this project has influenced modern geological research and the current state of deep drilling technologies. The scientific, technological, and historical significance of the Kola Borehole will also be reviewed.