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Continuous and updated assessment of rock-mass quality during mining operations (RIS program)

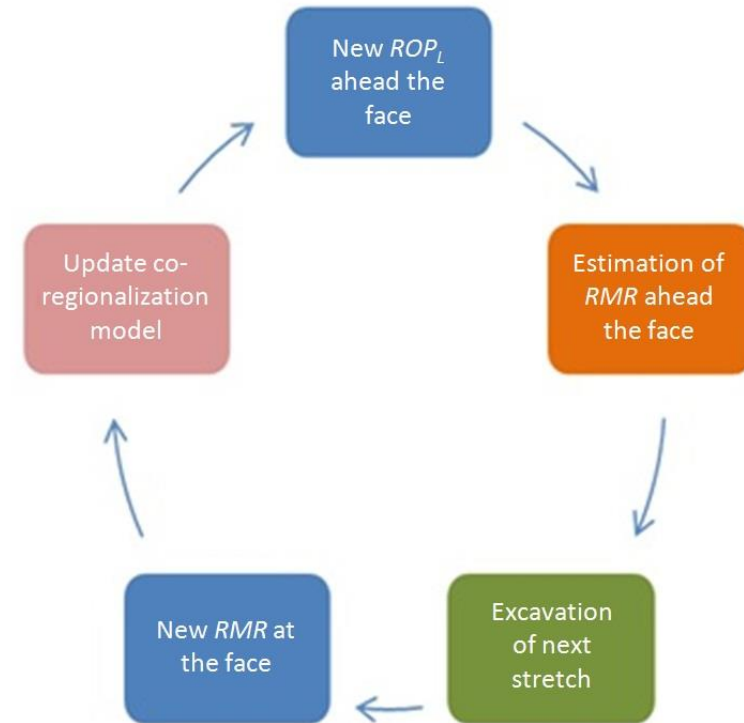
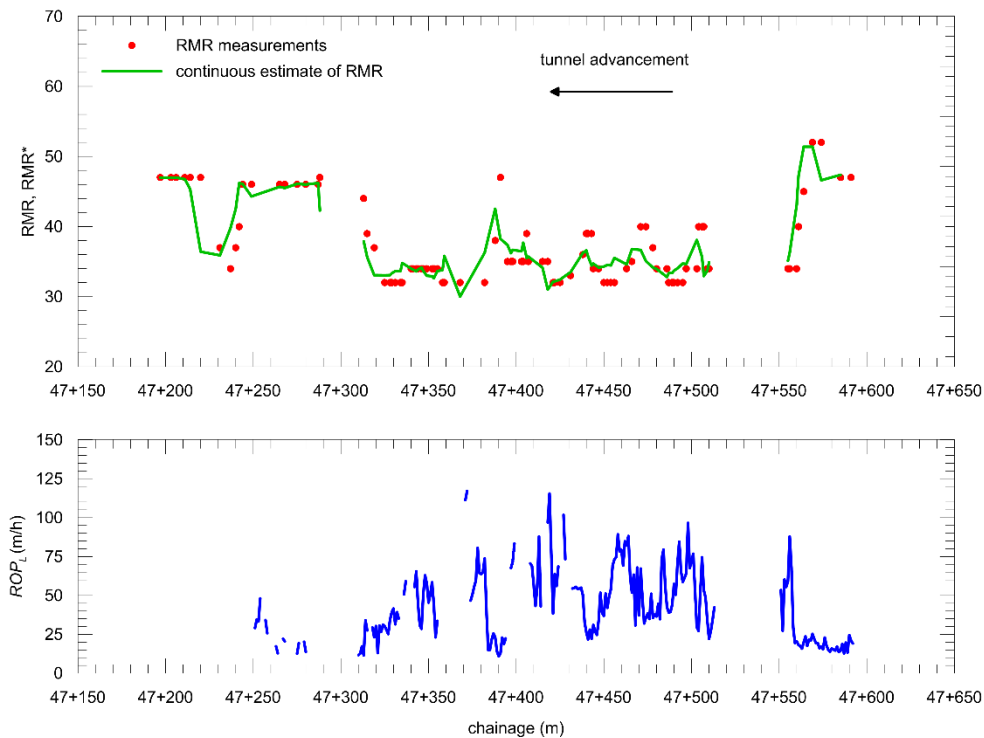
- Mining in challenging environments/Effective integration of Rock Mechanics, mine planning and operation: assessment of the rock-mass quality during exploitation/excavation by drilling and geophysical tests
- Expected synergies and complementarities:
Synergies among the research unit of University of Bologna with expertise in stability of underground constructions and statistical/geostatistical data analysis and interpretation, a research partner expert in geophysics and an industrial partner involved in mining operations

- Outcomes:

The mining activity will benefit from the continuously updated knowledge of the characteristics of the rock-mass to be excavated; decision tool for mining management; 2 PhD theses to be developed in this research field

- Wanted additional partners :
Research partner expert in geophysics +
Industrial partner involved in mining activities

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Simulation of the procedure of continuous estimation of RMR in East Brenner Base tunnel by co-kriging based on coregionalisation model obtained in the exploratory tunnel