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The state of art of TBM excavation and probing ahead technique

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Abstract:
The paper treats of the state of the art of tunneling by Tunnel Boring Machines and probing ahead technique. The author intends to put special importance about the geotechnical conditions which affect TBM's performance significantly, and then describes about the points of importance in the choice of TBM for any of the tunneling projects from investigation stage to construction stage, and analyzes the adaptability of probing ahead technique, referring to some case studies. Finally, future trends of TBM excavation and probing ahead technique are mentioned.

Keywords: Outline about TBM's and its history; factors affecting TBM performance; scheme to use and choose TBM; probing ahead technique.

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