



New Austrian Tunnelling Method (NATM)

The New Austrian Tunnelling Method (NATM) is an approach integrating the principles of rock mass behaviour and the monitoring of this behaviour during excavation. It involves the monitoring of rock mass deformations and the revision of support to obtain the most stable and economical lining. Thus, the NATM is seen to be advantageous as the amount of support installed is matched to the ground conditions, as opposed to installing support for the expected worst case scenario throughout the entire drift.

Rabcewicz (1964):

"A new tunnelling method – particularly adapted for unstable ground – has been developed which uses surface stabilisation by a thin auxiliary shotcrete lining, suitably reinforced by rockbolting and closed as soon as possible by an invert. Systematic measurement of deformation and stresses enables the required lining thickness to be evaluated and controlled".

































































