

PROJECT DESCRIPTION

Trafikverket (The Swedish Transport Administration) & Sweco

Stockholm, Sweden

The Northern Link (Norra Länken) will be part of a major road system surrounding the Stockholm metropolitan area.



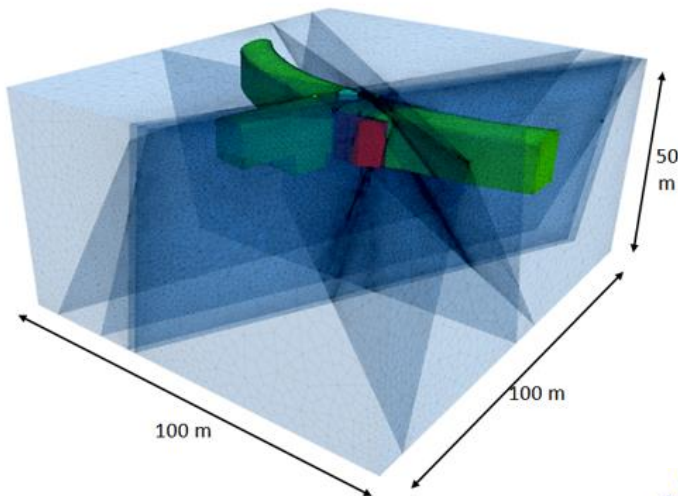
FLAC3D™



KUBRIX Geo®

ITASCA'S ROLE

As part of the design work for this project, Itasca Consultants AB and Itasca Consultants S.A.S. has performed a three-dimensional numerical study to analyze of the effect of a large surface load being applied on top of a tunnel intersection with low (4 m) rock cover. The analyses were performed using *FLAC3D*, and the model was constructed with *KUBRIX* mesh generator using in conjunction with the *Rhino* CAD package.



FLAC3D model of tunnel intersection, also showing larger joint structures modeled

Close-up of tunnel intersection and installed reinforcement in the model

