

Geotechnical
Engineering
Software

Save time and eliminate errors with automatic predictions for ground movement and structural damage

Xdisp eliminates the need for different programs and multiple spreadsheets when predicting ground movements and building damage.

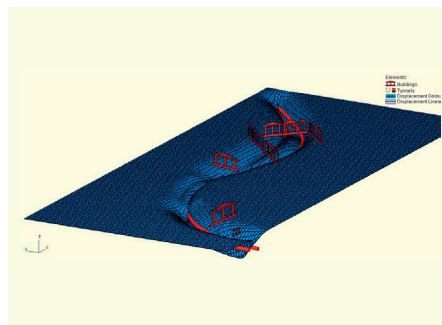


Estimate the effect on surrounding structures when performing groundwork

Xdisp: transforming ground movement and structural damage prediction

To estimate the effect on surrounding structures, most urban tunnelling or excavation work requires ground movement and structural damage assessments. But

producing them with different analysis programs and spreadsheets can be time consuming and make calculations difficult to check. Xdisp automates the process and displays the data in clear 3-D graphics.

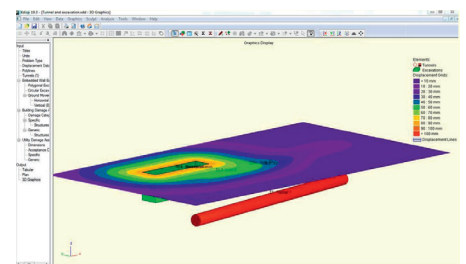


Xdisp graphical output

The program predicts ground movements due to all kinds of excavations, including tunnels, basements, mines and embedded walls. It then uses these soil movements to assess building damage, outputting useful graphs and charts to show critical areas and buildings. 3-D graphics make it easy to check and interpret the data, as well as helping to make things clear for designers, contractors and clients.

Drawing on Arup's experience of complex urban tunnelling projects in London, New York and Hong Kong, Xdisp has been used successfully on Crossrail and King's Cross underground station in London as well

as numerous underground railway and building projects around the world.



Xdisp settlement contours

Benefits

- Simulate many construction sequences in one model providing significant time savings
- 3D effects increase the calculations in critical areas
- Easy to use software gives accurate results in minutes
- Building and Utility Damage Analysis with summary analysis for multiple structures



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