

CASE STUDY: BORÅS IS BLASTING 2 MILLION CUBIC METRES OF ROCK

The City of Borås is blasting two million cubic metres of rock



With AvaNet Vibration, Bergsäker saves time and can easily share measurement data with stakeholders in Borås municipality. Borås is growing and there is considerable demand for commercial properties. To make room for more businesses, the municipality is now making major investments in the new Viared Västra area, just a stone's throw from central Borås.

- This is one of Sweden's largest blast sites right now, says Miikka Kortelainen, regional manager at Bergsäker. When the area is ready for occupation in 2017, 2 million cubic meters of rock will have been blasted away.

Vibration proof for the press

Viared has a strategic location next to the motorway, but at the same time there are also nearby workplaces and homes to take into account.

- Borås Tidning is east of the blast site, says Miikka Kortelainen. It is perhaps the most sensitive activity. Presses and vibrations are not a good combination. Therefore, we chose to be extra cautious and expand the inventory and risk area to double in order not to disrupt the news flow.

Smart measurements

After the comprehensive risk analysis, work has continued with vibration measurement during the explosions. This is where AvaNet Vibration comes into its own.

- Here the blaster can insert the salvos into AvaNet himself, says Miika Kortelainen. Based on the coordinates of the salvo and the measuring point, current target values are then calculated automatically. This distance correction is a great advantage in work. Our customers also have login and can see everything in real time and also do parts of the work themselves.

Versatile instruments

In the measurements at Viared west, a number of different sensors are used together with the AvaTrace M60 field instrument. Vertical, horizontal and triaxial geophones, as well as accelerometer and blast microphone, have been deployed to record data.

- For us, the long operating time is important, says Miikka Kortelainen. The field instruments require very little supervision and this saves us a lot of time. An additional advantage is that they are powered by ordinary batteries. If we or the customer do not have any on hand, they are available in any store. No hassle and also more environmentally friendly than previous solutions.