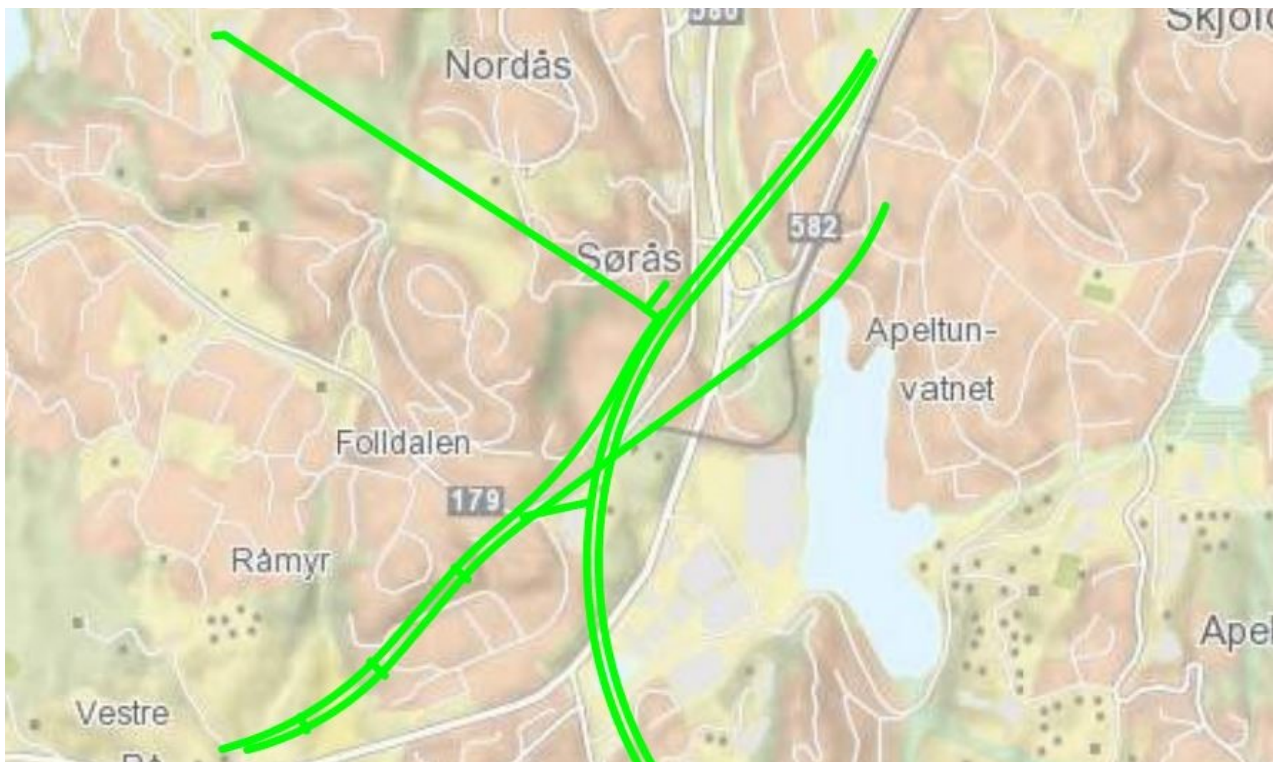


Bever Team Online

Efficient Drill and Blast Management

Planning and reporting software to support drilling jumbos



Tunnelling jobs with simple or complex geometry can be easily managed using Bever Team software. Projects with ramps and variations on cross-sections are easily handled.

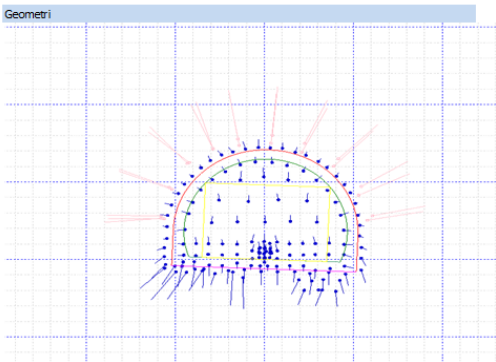
- One web-based program to learn and maintain, no installation required
- Import/export to AMV, Atlas Copco and Sandvik jumbos
- Export survey data directly to Trimble (Bever Field Controller) and Leica total stations
- Import survey data directly from Trimble (Bever Field Controller)
- Import/export LandXML
- Manual and automatic generation of reports

Reports from production

Efficient blast and drill management - Bever system on a drill rig automatically records data for production control

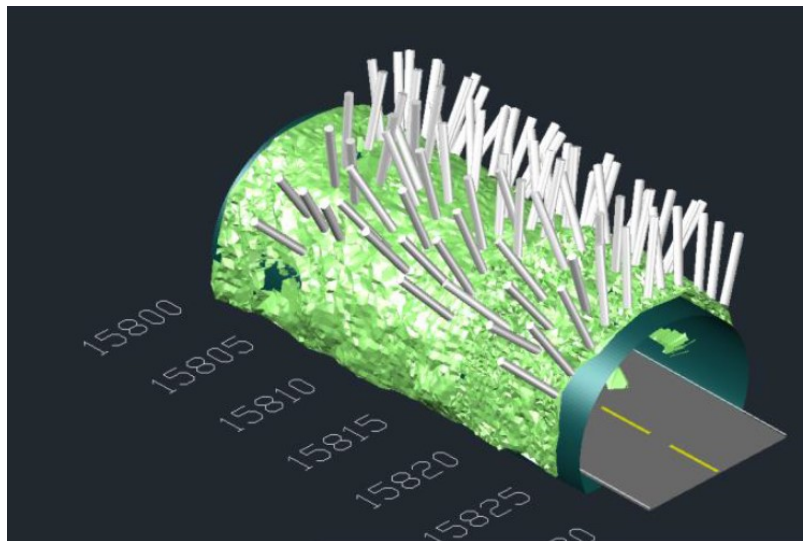
Salve: Sammedrag

Tunnel 23000
 Pel 7315,940
 Nav. Dato 3.10.2014 18:53
 Rigg 8991421600

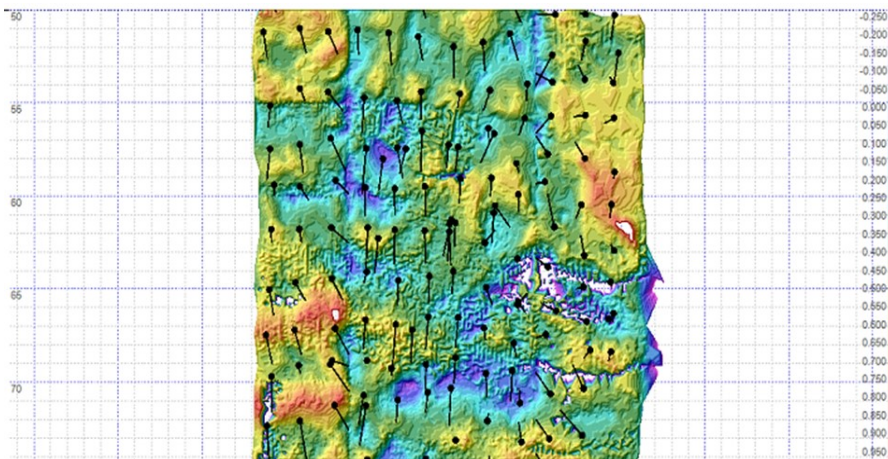


Geometric round report gives information on actual drilled pattern, number of holes and meters drilled

| | |
|-----------------------------|---------|
| Antall og lengder | |
| Antall hull | 171 |
| Bormeter(m) | 788,711 |
| Boring | |
| Borsyng (m/min) | 3,569 |
| Tider | |
| Boretid | 04:16 |
| Rundetid | 00:00 |
| Borparametertolkning | |
| To ket hardhet | 8,988 |
| To ket oppsprekking | 12,249 |
| To ket vann | 2,018 |



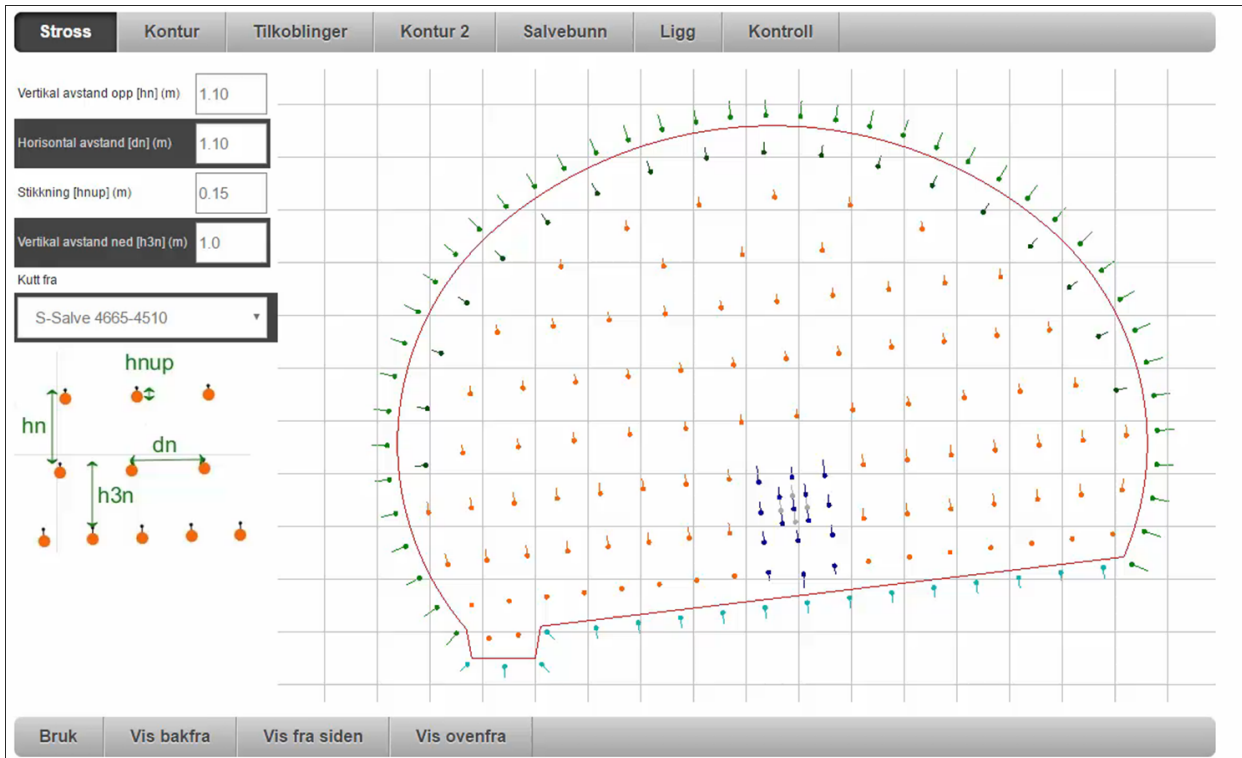
3D-view with planned tunnel, scanned tunnel and bolts



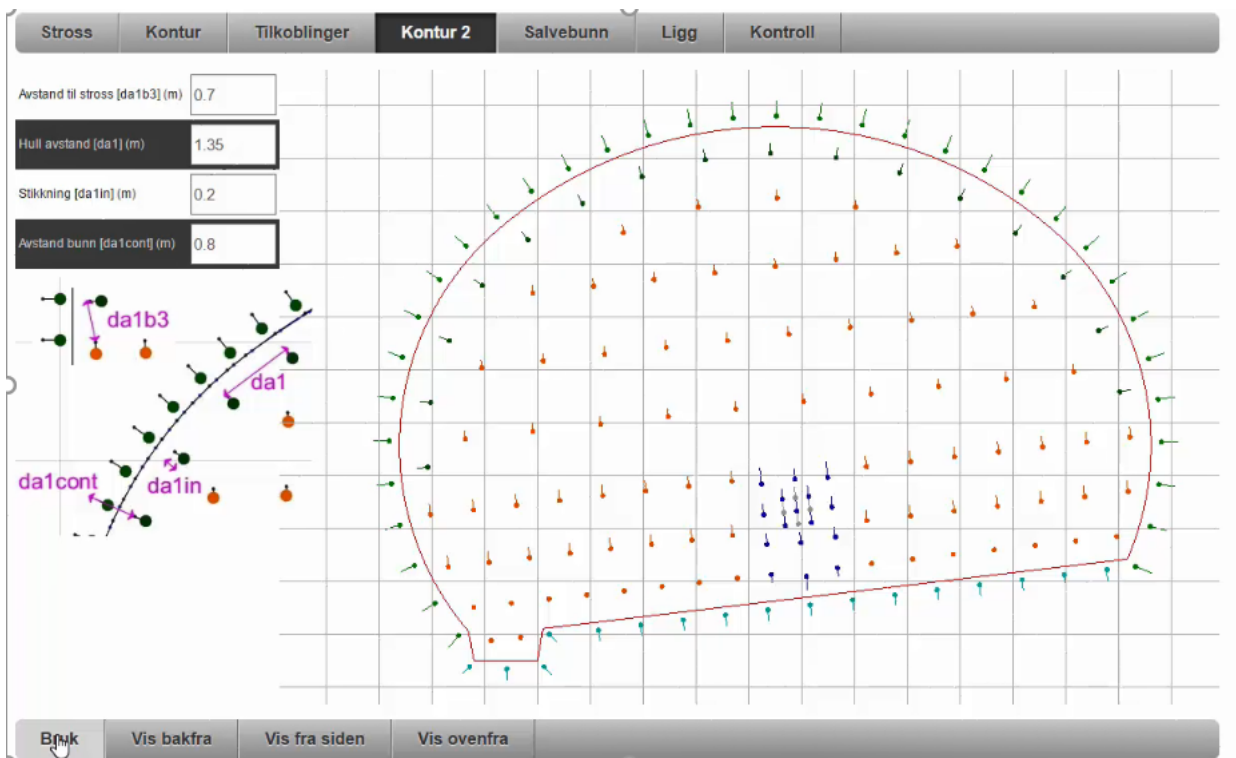
Flattened out map shows over- or underbreak, and bolt positions.

Anlegg Tunnel Pel
 Bever Tverrslag 50.000

NEW IN BTO: Automatic generation of drill plans



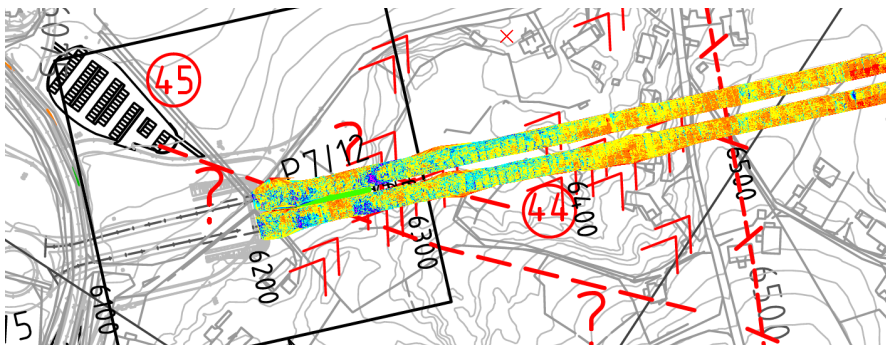
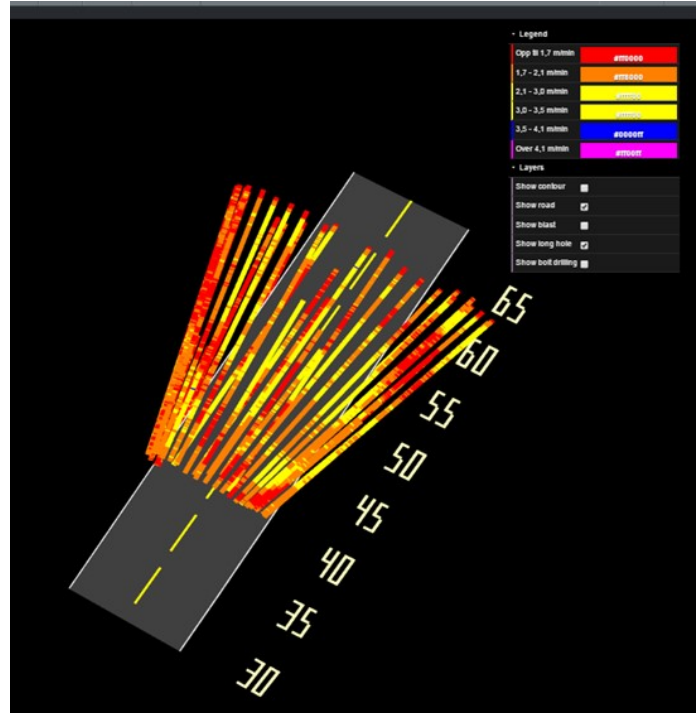
Adjust our suggestion to your liking, and drape it onto the geometries of the tunnel. The drill plan self-adjusts for changes in geometry, calculating increases or decreases needed to end up with the right size at the right chainage.



Measurement While Drilling Module

MWD interpretation software with 3D presentation of interpreted hardness, fracturing and water

While drilling, drilling speed and other drilling parameters are recorded. This 3D display indicates hard or soft rock.



Interpreted hardness based on MWD data, superimposed

Options

- Bever Team Charge and ignition plan module
- Bever Team MWD module
- Bever Team Grouting module

Bever Control Story

Norwegian contractors introduced the concept of computer controlled drilling as early as 1979 when the first AMV computer controlled jumbo was set in operation. Bever Control is the pioneer company for this technology world wide. We have delivered our system to more than 140 drill rigs and have set the standard for the performance of computer controlled drill rig systems.