

Rockfall in Schöllenen

Continuous measurement monitoring of a rockfall area



📍 Göschenen, Switzerland
👤 Federal Roads Office ASTRA
🕒 2015

Services

- ◆ Permanent 3D monitoring of a rockfall area
- ◆ Solar power system for autonomous power supply
- ◆ Alarm when limit values are exceeded

All recorded data is documented in TEDAMOS Web, our password-protected customer portal with 24/7 access.

Technologies

- ◆ 2 precision total stations with 35 monitoring points

On May 20, 2015, a large rockfall occurred in the Schöllenen Gorge between Göschenen and Andermatt in the area of a road gallery, forcing the road through the gorge to be closed for safety reasons.

Above the road, 900 cubic meters of rock had broken away and partially damaged the road gallery. A further 200 cubic meters of rock threatened to break away, endangering the clean-up and rock stabilization measures.

In collaboration with Acht Grad Ost AG, Terradata was able to install two autonomous total stations in the rockfall area within a very short time and monitor the rock sections at risk of falling using measurement technology. This enabled the workers involved in securing the rock face to be warned of even the slightest movements.