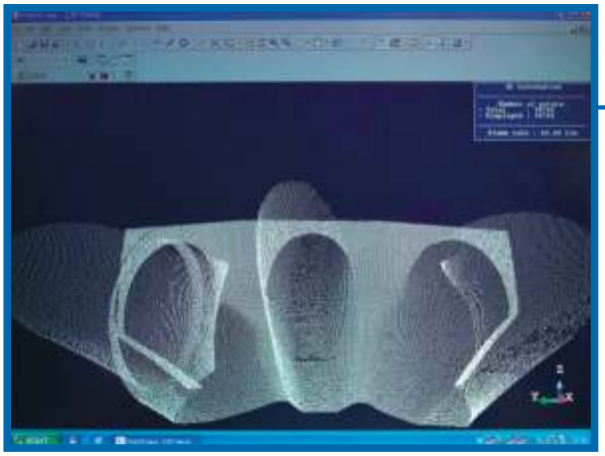
Spatial scanning and modeling

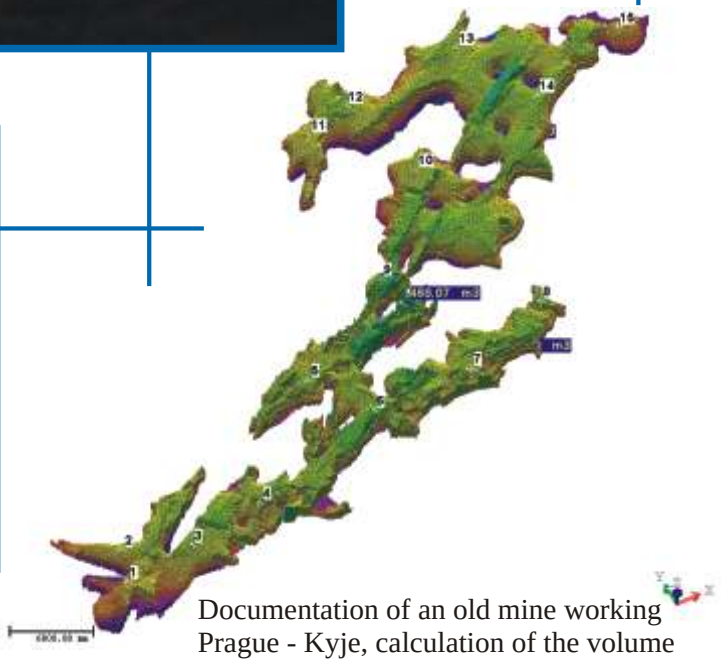
Laser scanning is an advanced data collection method collecting information about spatial objects. The highly accurate and detailed images are used for measuring any values, producing cross-sections and profiles, modelling surfaces or objects and calculating volumes. Comparison of measurements taken at different times can determine shifts and deformations.

Complete documentation of underground premises or inaccessible buildings and inspection of underground constructions

Documentation
of underground spaces

Documentation of a sewerage structure

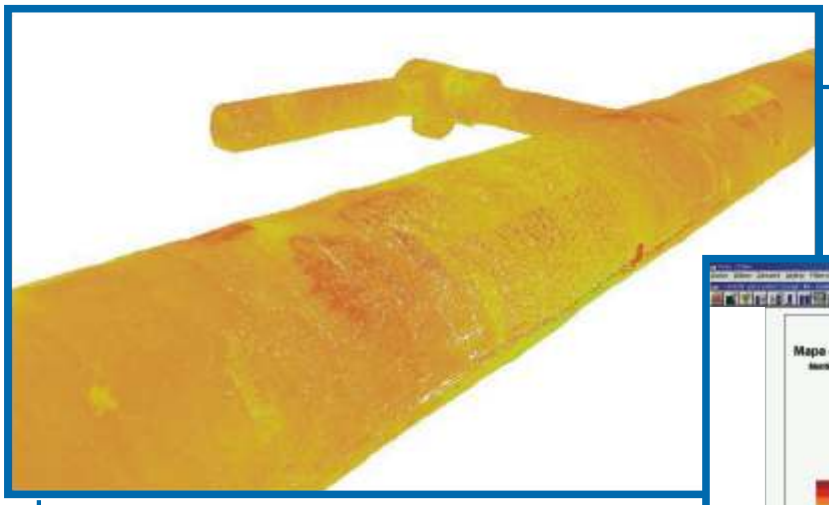




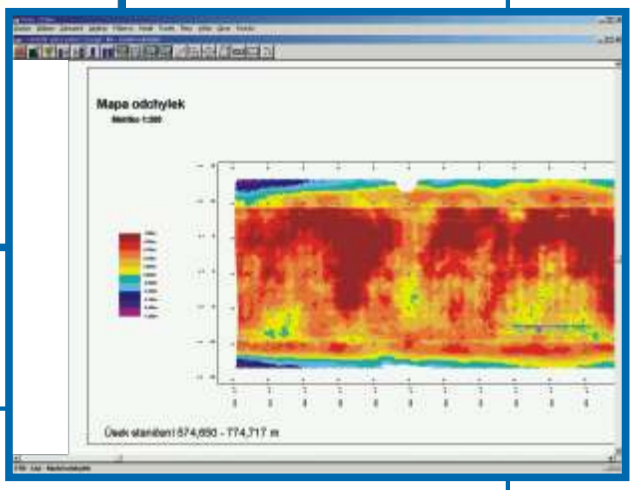
Documentation of an old mine working
Prague - Kyje, calculation of the volume

Spatial scanning and modelling

Control of the construction of tunnels and other underground workings

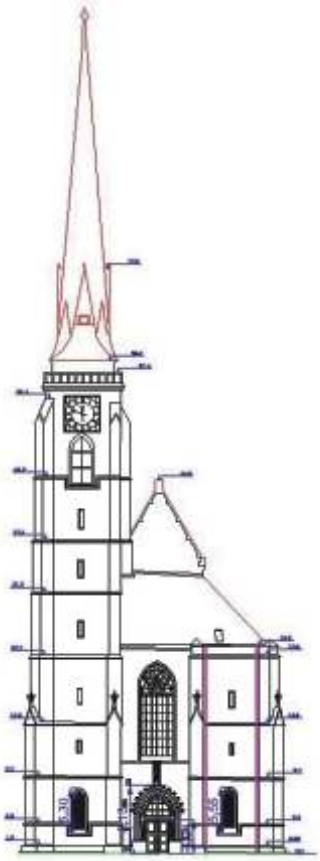


Scan of a metro tunnel line “C”, Ládví Prosek



Evaluation of primary lining deviations from the project

Documentation of historical buildings and works of art



Scan of the St. Bartholome cathedral in Pilsen

Documentation of bridges

Scan of the Hlávkův Bridge

3D spatial vector model of the bridge

Scan of the Nuselský Bridge and its cells with the metro trackage

Very efficient data collection, opportunity to use the data for verification measurements and conversion to common graphic formats gives new options to design engineers, developers and building contractors. This technology is used worldwide for the documentation of traffic road and aircraft accidents, crime scenes, in the documentation of the effects of natural disasters, in industries and in the development of computer games. All applications are supported with advanced software offering outputs in all common formats.

Spatial scanning and modelling

Geometry checks of large space structures and their assembly

"North" Terminal construction,
Prague Ruzyne - Airport

Detailed assembly precision check
on a roof structure

Truss production control

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