

Amberg Inspection Datasheet

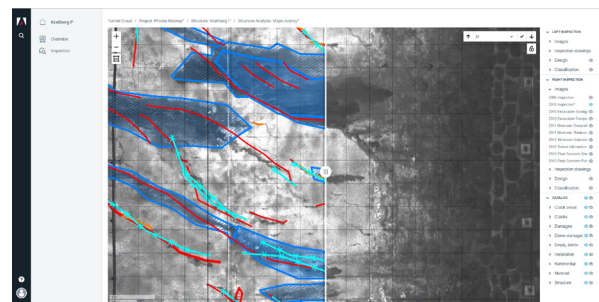
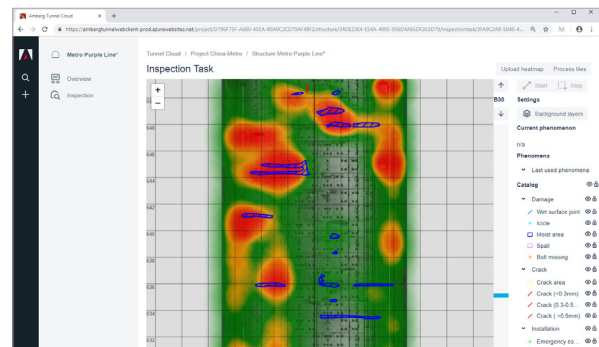


Integrated desktop and web solution for digital tunnel inspections

Amberg Inspection Cloud is a comprehensive image-based tunnel inspection platform for planning, managing, capturing, and reporting on visual tunnel surface conditions. The solution comprises a desktop project authoring tool and a synchronised web-based inspection application.

Main features

- Create geo-referenced tunnel alignments and structures
- Define custom inspection catalogues for each project
- Prepare and organise tunnel surface images into structures and layers
- Synchronise tunnel surface images with the web inspection application
- Define admin, inspector, and viewer user roles
- Digitise features according to your inspection catalogue
- Export PDF, DXF, and various statistical reports



Amberg Inspection Workflow

Data preparation in Amberg Tunnel Office

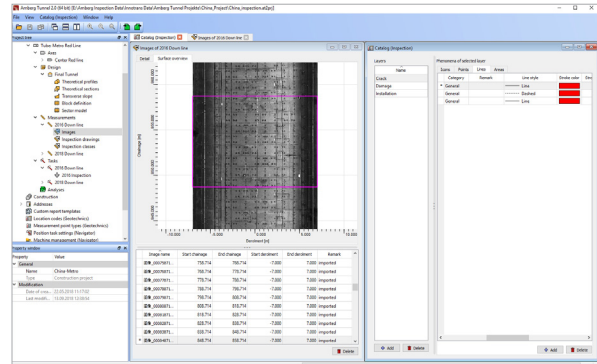
Generate high-resolution images from Amberg Tunnelscan data using "High-resolution image analysis" (optional module).

Import tunnel surface images from other sources (e.g. RGB, thermography, humidity images, ...).

Import of Amberg Rail images such as reflectivity and clearance map images.

Create customisable inspection catalogues for systematic inspections

Alternatively, work without any tunnel surface images. Define the tunnel in sections, blocks, and sectors.



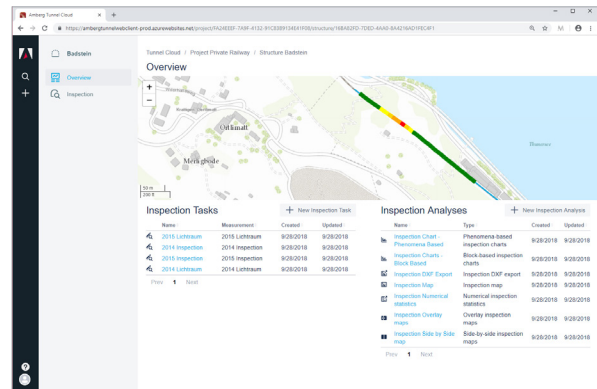
Project overview

Cloud based inspection platform operated from a web browser

Project dashboard for managing user roles and permissions.

Visualise the overall classification of the tunnel in the overview map. Final classification values are entered manually in Amberg Tunnel Office.

On-site verification application for offline inspections in the tunnel.



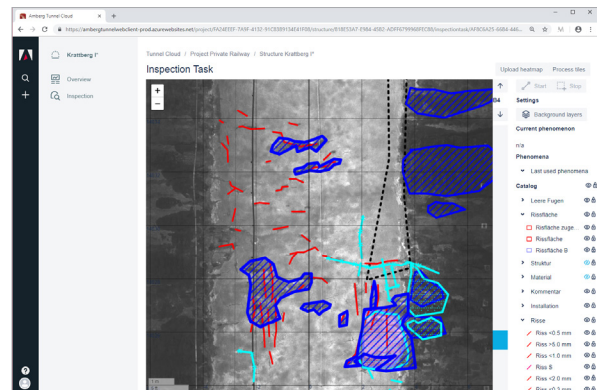
Inspection task

Manual inspection of features based on customisable inspection catalogues.

Create, modify, and delete features and their associated attributes.

Turn on and off inspection layers and drawings.

Store multiple background layers (e.g. older inspection data, geology maps, thermal images, etc.).



Inspection analysis

Dynamical reporting in the cloud.

Graphical side by side reporting from two inspections.

Graphical overlay (maps swipe) reporting from two inspections.

Numerical block charts reporting with an interactive filtering option.

Numerical pie charts reporting.

Export to DXF and CSV data for post-processing in other applications.

