QuickView Data Visualization
QuickView processes sensor readings and makes graphical data available on a project website. QuickView automates repetitive tasks, standardizes processing and presentation, and provides timely access to data.

QuickView also provides advanced features using 3D models of the site, quick plots with live updates, playback of historical data, and convenient annotation of site progress.

QuickView Advantages

Web Access: The project website provides access to data wherever there is an internet connection. It works with web browsers on PCs, tablets, and smartphones.

Continuous Availability: QV operates 24 hours a day, automating the repetitive tasks of importing and processing readings, checking for alarms, and generating plots and reports.

Consistent Calculations: QV processes data according to instructions stored in the project database. Changes to calculations or calibrations take effect immediately across all plan views, plots, and reports.

Consistent Presentations: Plan views, plots, and reports can be preconfigured to ensure consistent scales, terminology, and sensor selection. Values are updated automatically.

Wide Compatibility: Specialized preprocessing applications extend QV’s functionality and provide compatibility with nearly any type of monitoring device.

Centralized Data Storage: QV stores all types of data, maintaining traceability, eliminating data silos, and simplifying access.
Sensor Compatibility
QV can work with any type of sensor. In addition to preprocessing modules, QV has a built-in UI for defining new sensors and data formats. Data can be uploaded automatically and manually.

Processing
Running on GeoCloud servers, QV stores and applies calibration factors to convert raw data to engineering units. QV also provides:
- Easy baseline management
- Most mathematical functions
- Virtual sensors
- Cumulative displacement calculations
- Averaging of data in charts
- Slope and deflection ratios
- Cant and twist calculations

Presentation
Full geospatial coordinate support
Time-lapse playback
Multiple views of the project
Maps, images, and 3D models as background
Client logos on views
In-app display of 360° photos and video

Plot Types
Contour plots
Time plots
Profile plots (inclinometers, etc)
Pre-configured plots for standardization
On-the-fly plots for investigations.

Alarms
Data Alarms
Watchdog alarms

Annotations
Advanced annotation functions
Automatic transfer of annotations to plots.
Alarm trigger values
Predicted deformations
Tunnel alignments & TBM movements

Archives
Installation reports
Calibration certifications
Photographs
Alarm logs
Raw data

Exports
Tabular data
Plots

QuickView provided real-time measurements of settlement and heave as the TBM moved forward along its alignment.