



## QuickView Visualisation Website

**THINK SAFE** **WORK SAFE** **HOME SAFE**

# Company Background

## WHAT WE DO

GEO-Instruments provides automated systems for monitoring the safety and stability of buildings, excavations, retaining walls, tunnels, railways, and bridges. We help owners, infrastructure operators, and construction engineers identify and mitigate risk, optimise designs and methods, and document regulatory compliance.

## HOW WE WORK

GEO-Instruments can partner with the design and construction team or work as an independent consultant. Our work is guided by our values: integrity, collaboration, excellence, and safety drawing on our established connections within the industry.

We do what we say we will do, communicate responsibly, never cut corners and always work safely.

## WHO WE ARE

Getec founded in Germany in 1990 with a background in the mining industry. First products were software and liquid levelling cells. Getec UK established in 2010 and now have offices throughout the USA, France, Poland and Germany.

In 2019 we rebranded as GEO-Instruments.

# The Need for Monitoring



## **PRE- CONSTRUCTION**

Determine initial site conditions, establish a baseline

Knowledge of asset behavior

Confirm laboratory testing results



## **DURING CONSTRUCTION**

**SAFETY**

Observational working

Construction control

Increasing knowledge for future projects



## **POST CONSTRUCTION**

Observations during works, design confirmation

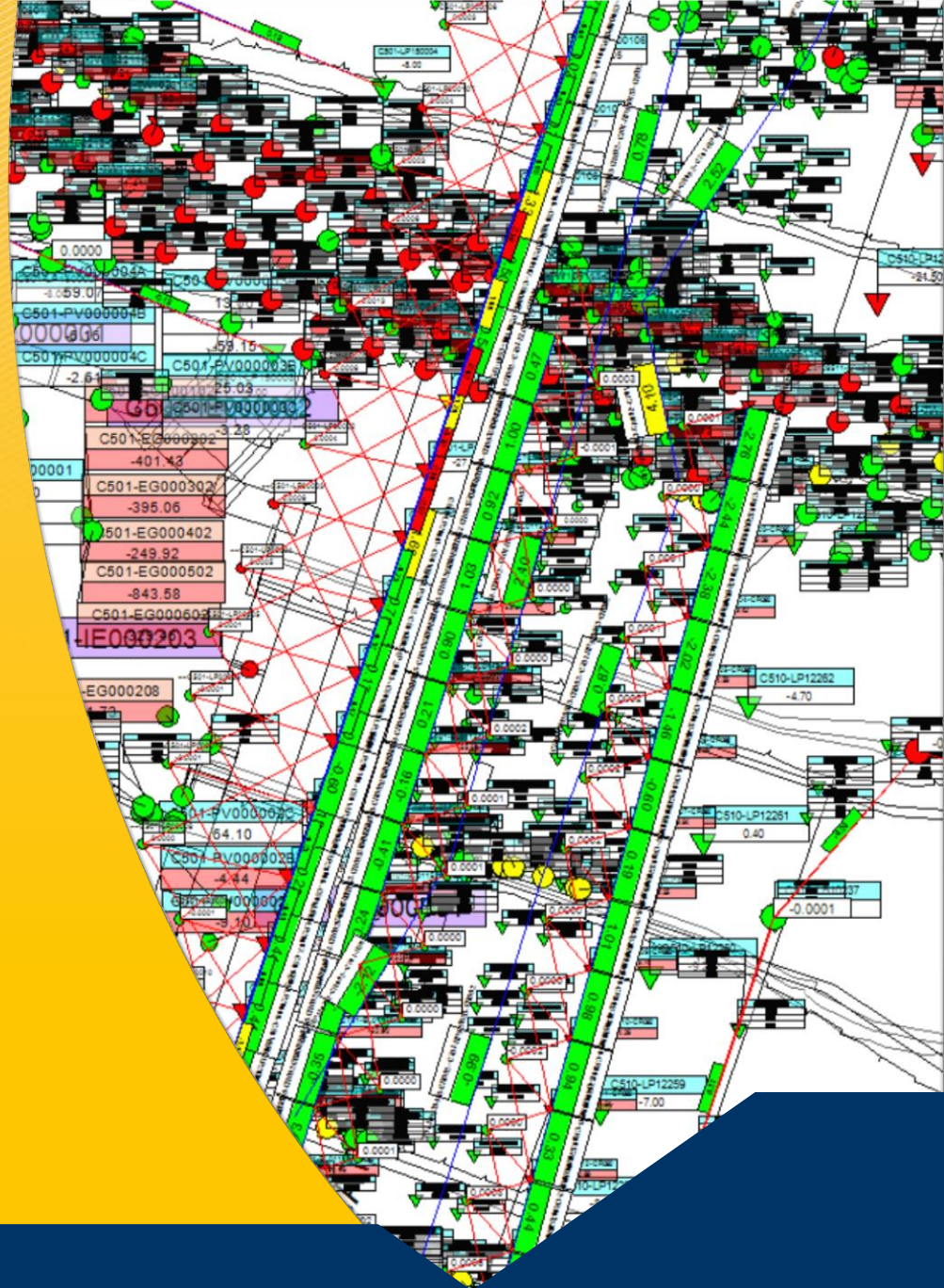
Limit of working, action protocol.

Long term loading and performance



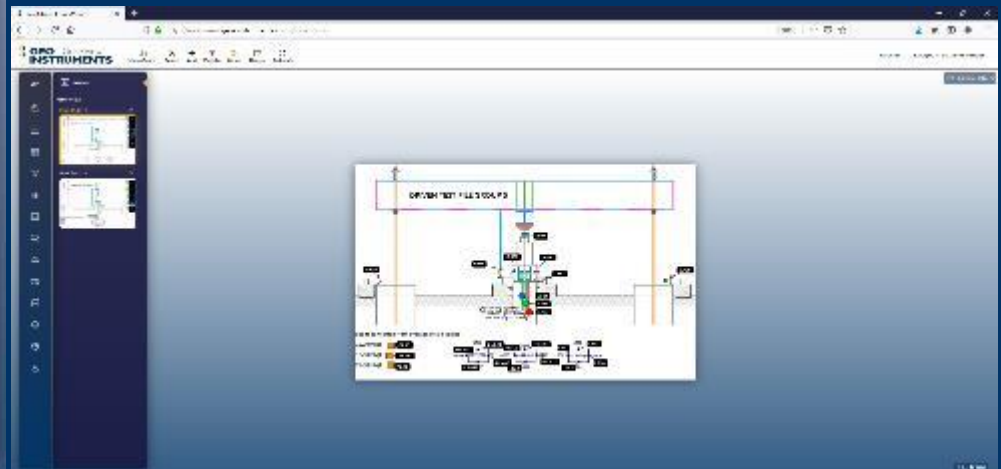
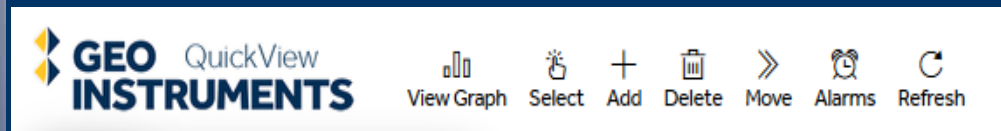
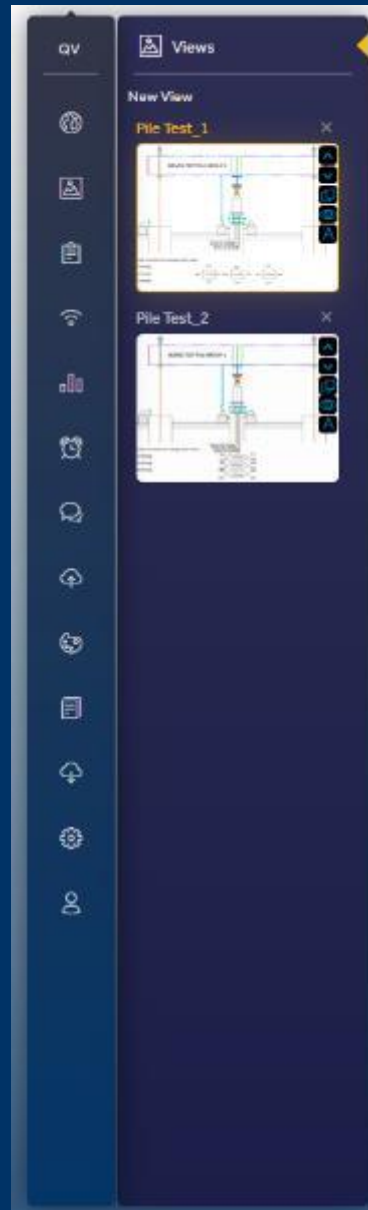
# Information Overload

- Too much information can lead to a number of potential issues, such as:
  - Overcrowded visualisations
  - Developing trends being missed
  - Can compromise site safety
  - Non-conformance with stakeholders
  - Observational working can become very difficult.



# Security and Functionality

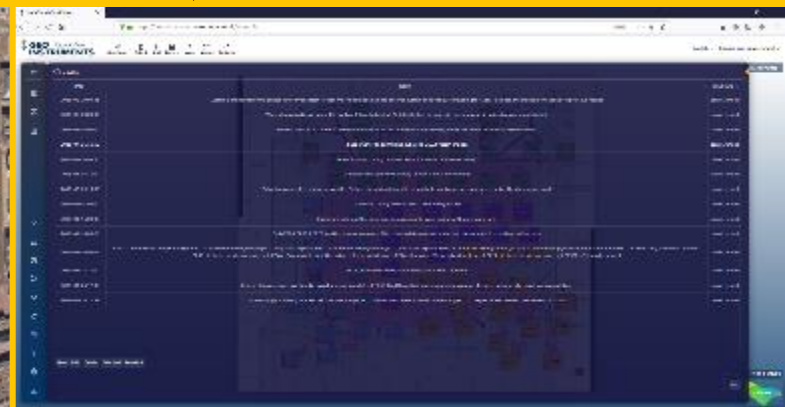
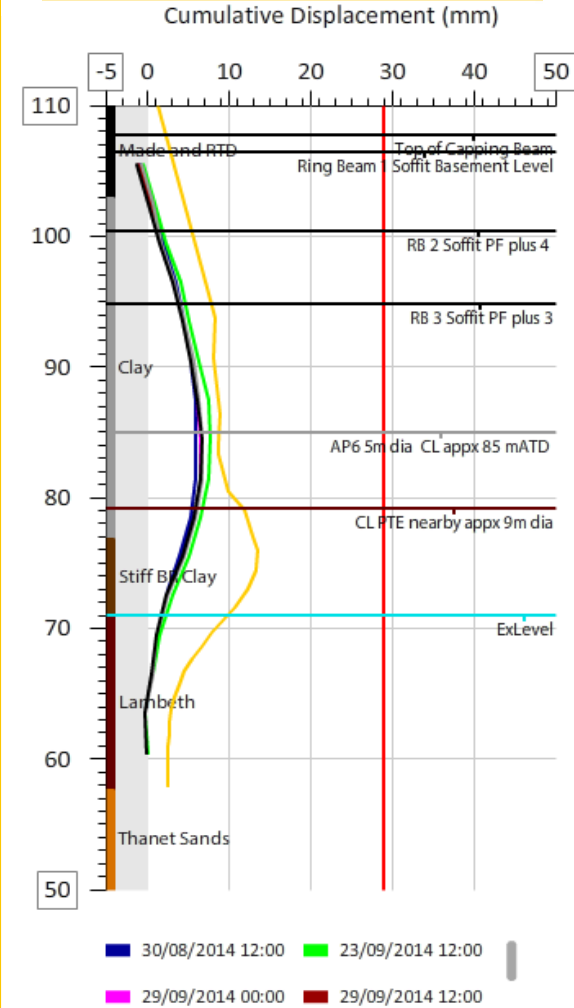
- Secure logins for all users.
- All projects listed in one place
- Multiple Views for every project
- Add, edit, and delete sensors to fully customise your projects
- Choice of different languages
- Works on Smart Phones too!





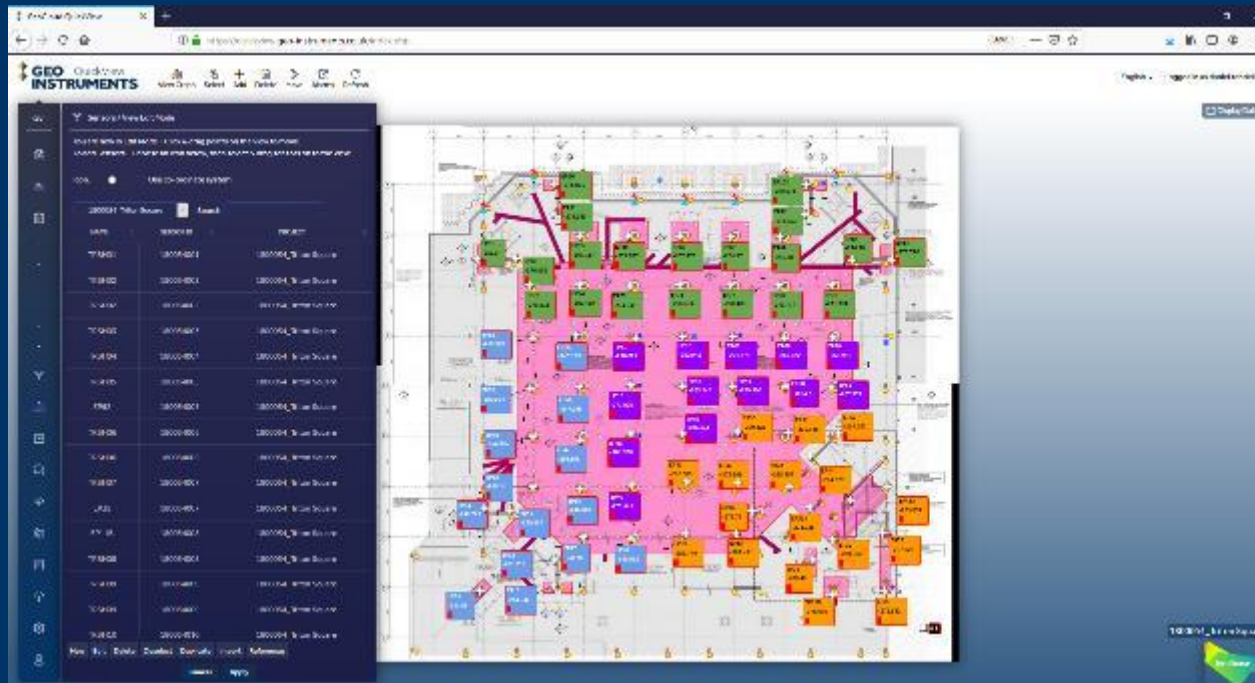
# Track & Record Construction Progress

- Display TBM Progress
- Excavations & Site Activities
- Log site activities using the journal feature
- Store Important Documents



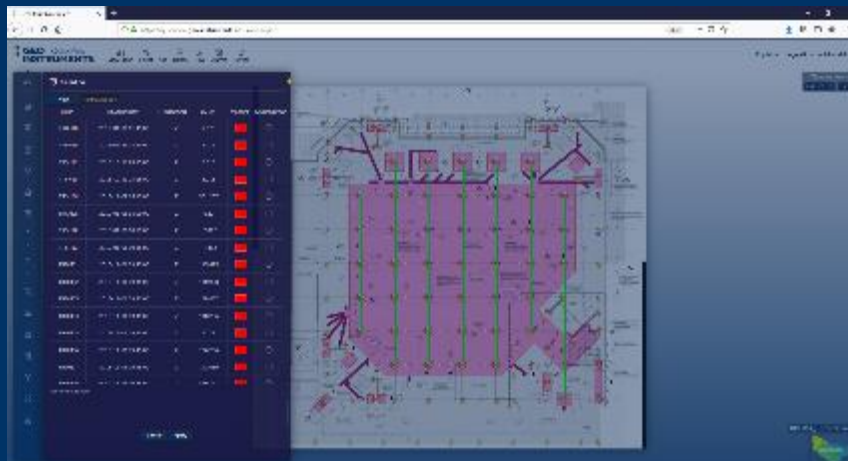
# Add/Edit/Delete Sensors with Ease

- Easy to use system for adding new sensors
- Drag and drop to add sensors to a view
- Customised sensor icons
- Full Sensor list for a designated project
- Assign co-ordinate systems to background images
  - Based on two known points, automatically calculates the grid across the entire image



# Automatic Reporting

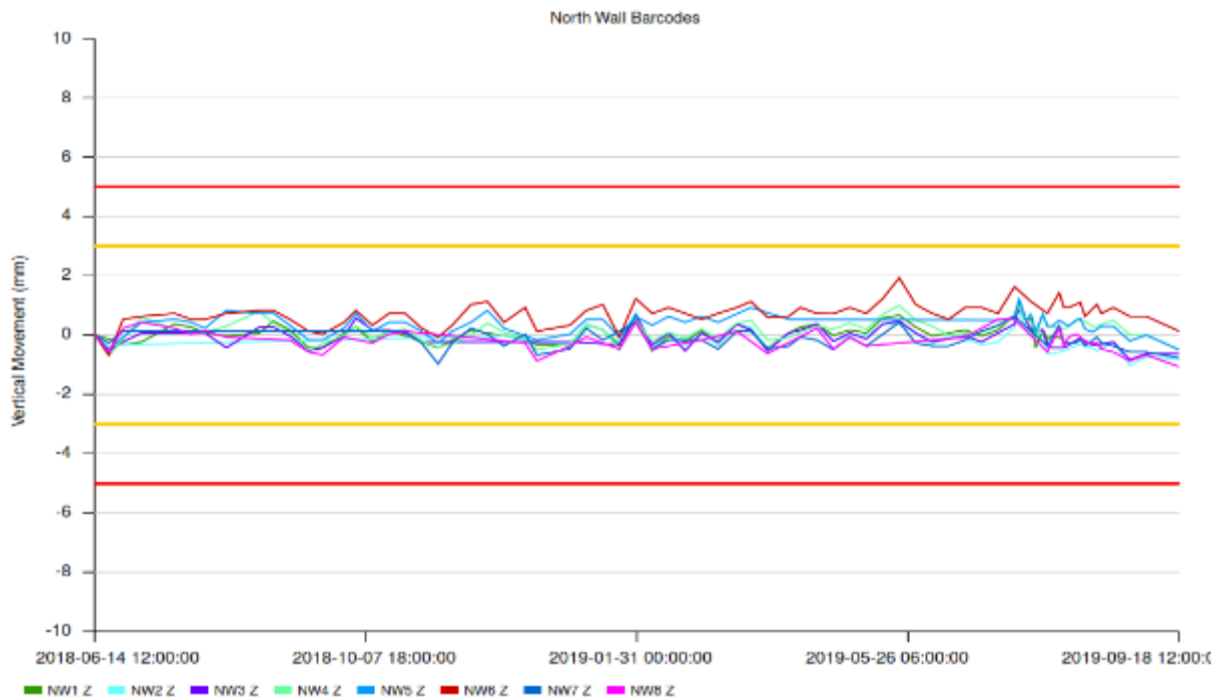
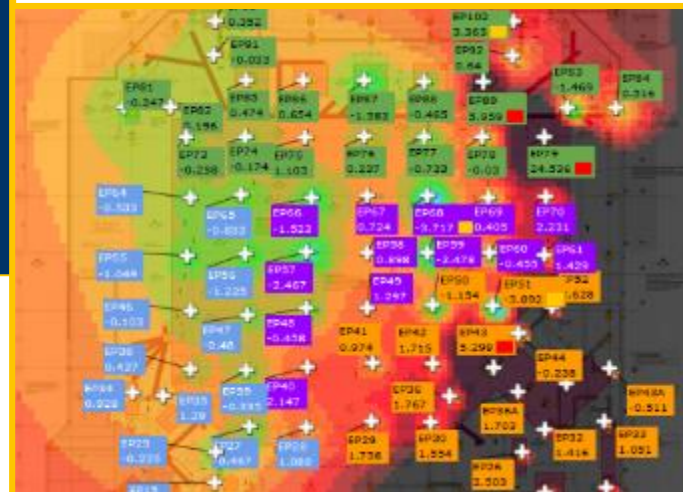
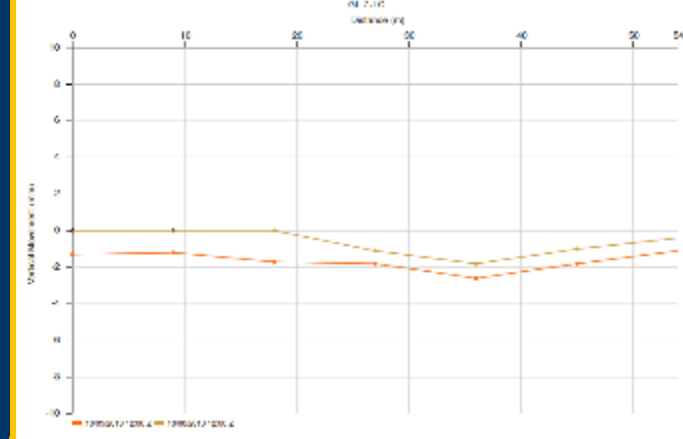
- Monitoring Reports
  - Daily
  - Weekly
  - Time Specific
- Alarm notifications
  - No data
  - Trigger breaches
  - Alarm Logs
  - On screen notifications
- Customised Mailing Lists

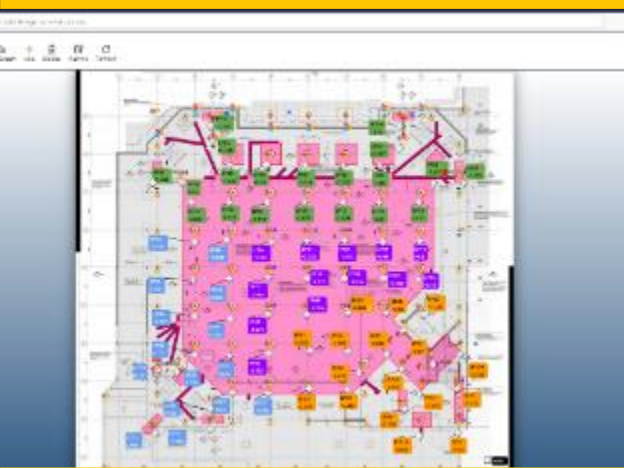




# Display Data in Different Ways

- Movement vs Time Plots
- Contour Plots
- Profiles/Cut Lines
- inSAR Data Plots
- Custom written Apps for Smart Phones





# Summary

- QuickView, web based data platform. Developed in-house, project suited, reliable support.
- Visualisation options;
  - Deformation vs. Time plots,
  - Contour heat maps,
  - InSAR data points.
- 24/7 access to current and historical data. Automatic and manual reporting. Automatic trigger notifications
- Custom Written Apps can also be created to suit a clients project requirements. Displaying data in both 2D and 3D.



