

GT-GIS



MONITORING



ANALYSIS



AUTOMATIC

GT-GIS *a powerful and flexible data management system for the monitoring and analysis of structural, geotechnical and civil engineering project.*



THANK YOU

FOR CHOOSING US

Dear Our Beloved Clients,

GeoTech Science Co., Ltd would like to take this opportunity to appreciate and are especially grateful for trusting and choosing us to be your partner with your projects in Asia through all the years.

We can be your choice as manufacturer, supplier, or instrumentation subcontractor.

We look forward to sharing your successful and developing partnership with you!

Sincerely yours,

JOHNY HUANG

General Director

CONTENT

- 01** | **ABOUT US**
- 02** | **PROUCT FEATURES**
- 03** | **SOFTWARE INTERFACE**
- 04** | **THE BENEFIT OF GT-GIS**
- 05** | **HOW YOUR SYSTEM ARE REALLY OPERATING ?**
- 06** | **ABILITIES OF VIEW, REPORT AND BIM CONNECTION**
- 07** | **TYPE OF PROJECT**



**WE PROVIDE
COMPLETE
SOLUTIONS**

GEOTECH SCIENCE CO.,LTD



Geotech Science Co., Ltd is formally established in 1993. We are a highly experienced team in Real-Time monitoring and Warning system for more than 20 years.

Our mission is provide specialized consulting services for geotechnical instrumentation in support of MRT subway, NATM tunnel, bridges, dams construction, and civil infrastructure.

With headquarter located in Taiwan, currently Geotech also has international coverage through our overseas branches in Singapore, Malaysia and Vietnam.

WE ARE PROFESSIONAL AT WHAT WE DO

Establishing with the goal of becoming the most trusting company, our highly experienced team in real time monitoring and warning system compromise to have professionally trained, highly experienced technical, management and coordination of projects in Geotechnical Field with dynamic, creative, trustful to ensure the quality and effectiveness.



A LEADER IN GEOTECHNICAL MONITORING

We not only manufactured Sensor, Handheld readout, and Recorders, we also developed our own Professional Software and Database, which are used in many large projects, such as: High Speed Rail, Subways, Tunnels, MRT projects Railways, Bridges, Slopes, Reservoirs ... all civil infrastructure and other related engineering monitoring system.



OUR SERVICE SCOPE

The performance, reliability, and cost-effectiveness of our sensors, dataloggers, software and the system have been proven many projects. We can be your choice as manufacturer, supplier or instrumentation subcontractor. We provide total and complete solutions for all kind geotechnical monitoring. We are looking forward to develop partnership with you.

GT-GIS

GEOTECH GEOGRAPHIC INFORMATION SYSTEMS



Most powerful and flexible data management system for the monitoring and analysis of structural, geotechnical and civil engineering project.

CORE FEATURES

- + MONITORING
- + DATA PROCESSING
- + ANALYSIS
- + EXPORT DATA



LOOK WHAT SOFTWARE CAN DO FOR YOU

Access To GT-GIS opens up a new opportunity for an actionable intelligence of interface for monitoring, processing and analyzing data, includes a rich set of features to visualize your data and analytic results.

The goal of GT-GIS is to provide more advanced users with the tools they need to create virtually anything they can imagine without needing sophisticated software development skills.



DATA DISPLAY

GT-GIS build a common interface to the monitoring, buildings, geotechnical parameters that can be stored in one or more databases and presented by using Google Maps.



DATA PROCESSING

Automatically analyzes data to identify detailed issues, comprehensive analyses data and opportunities during risk assessment, tender, value engineering and cost.



ANALYTIC RESULT

Analytics system uses carefully unique rules in summarising data into key circle statistics to ensure data is true and correct and increase understanding based on m, day, ring, probe cycle, blast.



GRAPHING

Interface allows users to define the layout of views, specify the content to be displayed, enables users to easily create customized user interfaces by combining graphs, charts, selection menus, data entry fields and more.



SPECIAL TOOLS

GT-GIS's tools can provide users with maximum flexibility for delivering customized views and reports of data and analytic results with little to no software skills.



TRIGGER ALARM

An alert message can be sent to an individual or group, containing information required to quickly assess and control the problems occurs.



GT-GIS

CUSTOM WEB GIS USER INTERFACE

CREATE THE VIEWS YOU WANT

GeoGEMS interface allows users to define the layout of views, specify the content to be displayed, it enables users to easily create customized user interfaces by combining graphs, charts, tables, text, selection menus, data entry fields and more.



PRESENTATIONS DATA AND ANALYTIC RESULT

Access to GT-GIS provides customized Presentations of Operational Data and Analytic Result. The real value comes when those results are presented to you – rich visual presentations that show how your systems are really performing.



CHANGE MAP

- Geographical View using Google Maps
- Display of AutoCAD Drawings and instrument location
- Contour View for Settlement Monitoring



ADDITIONAL MAP FUNCTIONS

- Geotechnical sections both longitudinal and cross-sections incorporating all the available geotechnical/geological data.
- Show TBM location, groundwater and sensitive building information
- Display on Map the present status of Alarm and Alert condition of the instruments
- Graphical user friendly interface



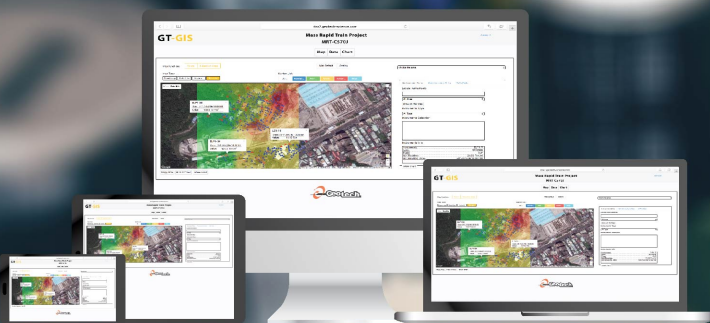
SIMPLE YET POWERFUL TOOLS

- Draw interactive section lines through your data
- Results combine instruments, works progress, boreholes, affected structure and interpreted contour surfaces on one interactive plot
- View Design Plans and Compare with Contours
- Drill down to the full AGS data and analyse in real time

MAXIMUM FLEXIBILITY

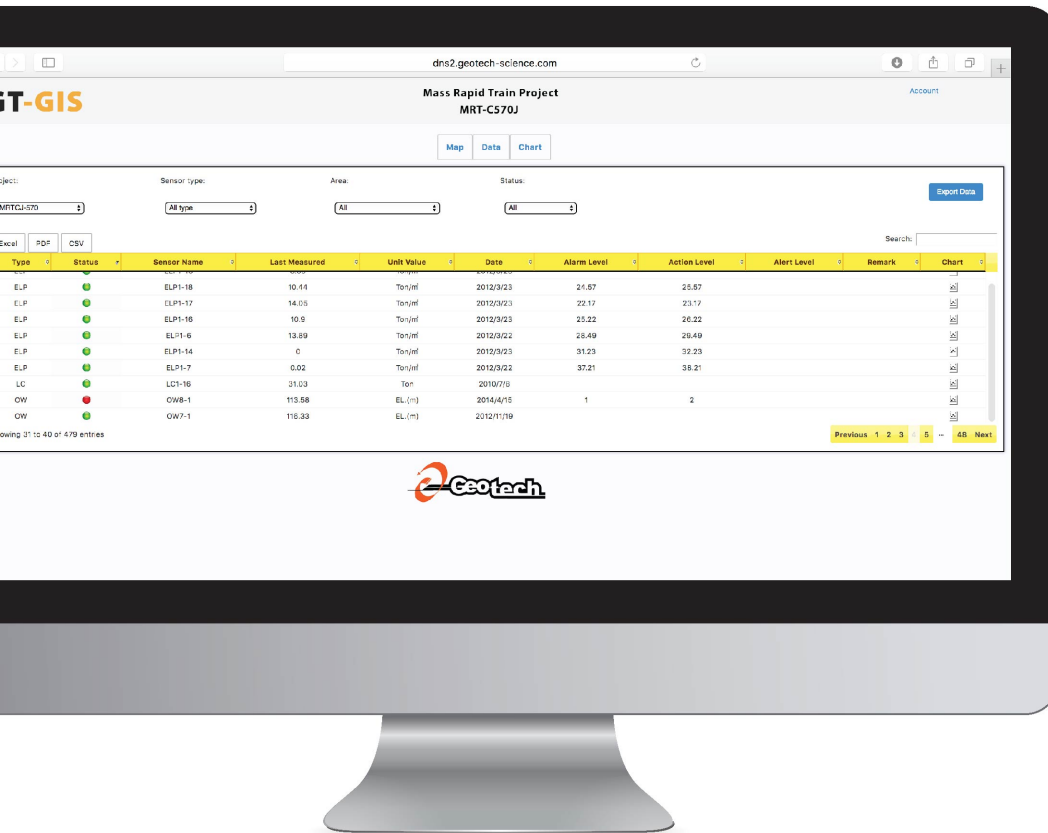
GT-GIS can be used as an end-use application for users that are responsible for manager and control systems on a day-to-day basis.

The software can be locally installed "on-premise" on a laptop, PC, Tablet or any device you want with full advantages and tools of the software.



Industry leading cloud data platforms for infrastructure.

THE BENEFITS OF GT-GIS



AUTOMATED:



COLLECT DATA



ANALYTICS



COMBINATIONS



CALCULATION

Automated analytics is accomplished with a unique data analysis “engine”, which processes rules and algorithms on your data. GeoGEMS includes a comprehensive library of data transformation and analysis functions for manipulating and analyzing data.

The library includes a full math package, statistical functions and machine learning algorithms. GT-GIS will automatically combine visualizations, notifications and reports that via a number of built in methods.

GT-GIS calculation can automatically use many interpolating methods, discounting and calculate the second order parameters to make sure combination of data is done at all time.

AUTOMATICALLY ANALYZE OPERATIONAL DATA

DATA

Complex project specific data in multiple formats with key relation key field



Tunnels



Bridge, Highway



Slope, Excavation



Building

INFORMATION

Project Agnostic simplified structure time/distance series data



EXPORT

Convert complex data to simple forms to add to your corporate database. Perform powerful analytics to aid decision making estimate risk and evaluate performance

PDF

EXCEL

CSV

DRAWING

COMPLETE SOLUTION



**COMBINE, PRESENT AND REPORT
INFORMATION RELATING TO A VARIETY
OF CONSTRUCTION MEASUREMENTS**

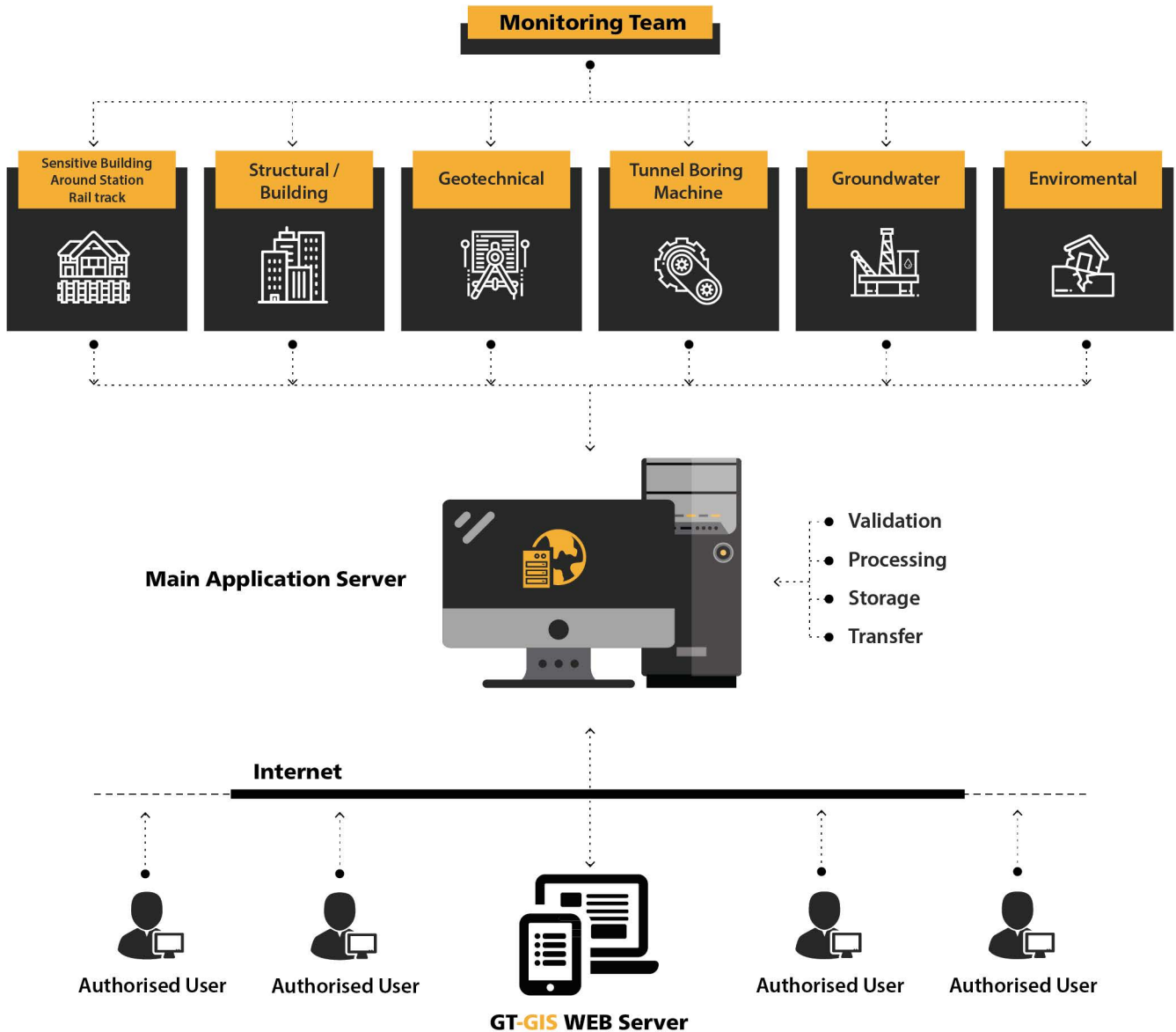


GT-GIS provides common interface to the geotechnical instruments, TBM, buildings, groundwater as well as environmental monitoring that stored in monitoring database.

The system presentate the geotechnical sections for both longitudinal and cross-sections incorporating all the available geotechnical/geological data.

GT-GIS combines all abilities for users to create their own customized views quickly and easily, reach all their concerns as they desired.

GT-GIS SYSTEM STRUCTURE



Local server collects Structural, Geotechnical, TBM, Groundwater, and Environmental data from site and transfers it to the GT-GIS Web Server. It will be validated, processed, kept, and sent to the GEOGEMS Operating Platform. Inside the platform, the data is interpreted, kept in storage, displayed to users for query.

Progress excavations of TBM and the relation of geotechnical data. Contours of piezometric head for areas with respect to time.

Building survey information, the result of building assessments and risk classifications. Environmental monitoring data for defined time/areas.

BORED TUNNELS IN SAND

THE KAOHSIUNG MASS RAPID TRANSIT SYSTEM PROJECT



Title

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi

Title

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi

Title

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi

Title

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi



PROJECT OVERVIEW

Lorem ipsum dolor sit amet, consectetur

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscip.

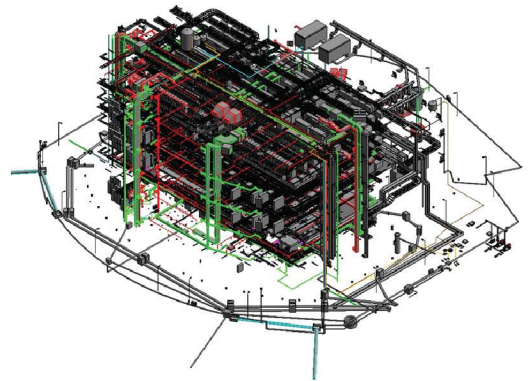
Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praese

CONSTRUCTION PLAN

Lorem ipsum dolor sit amet, consectetur

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscip.

Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praese

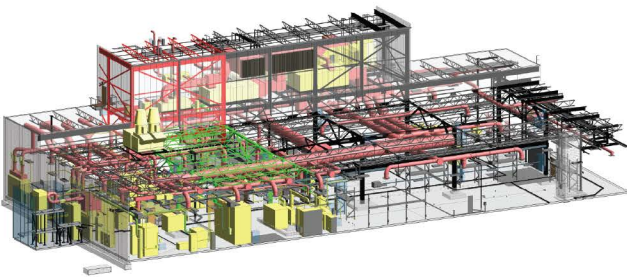


TECHNICAL DETAILS

Lorem ipsum dolor sit amet, consectetur

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscip.

Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praese



**WE DESIGN YOUR PROJECT
AND WE LIKE DO IT PERFECTLY**



GT-GIS

GEOGRAPHIC INFORMATION SYSTEM

Our software understand your business and help to define needs and translate them into effective IT systems to give clients a real advantage.

Geotech Science Co., Ltd

📍 2F, No.200, Sec.3, Da-Tung Road, Xizhi, Taipei, Taiwan

☎ Tel: +886-2-8647-1860 Fax: +886-2-86471870

✉ sales@geotech-science.com

🌐 www.geotech-science.com