

STRUCTURAL HEALTH MONITORING



Mario M. Cuomo Bridge (Tappan Zee)

“Geocomp’s iSite-Bridge software platform collects and manages 1GB of new data each day to assess bridge performance in real time. Intelligent data reduction algorithms show immediately the effects of unusual loads and cumulative performance.”

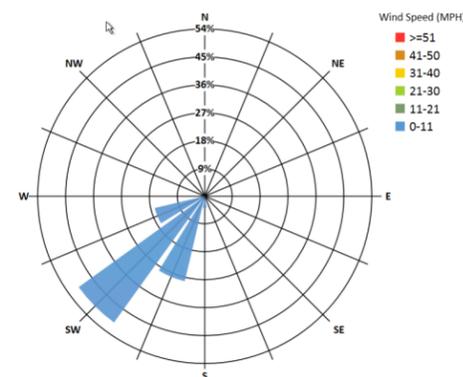
Geocomp provides the largest and most sophisticated Structural Health Monitoring (SHM) system ever deployed on a bridge structure in the US. The system consists of 130 Geocomp high speed data acquisition units (iSiteHS), 12 data loggers for weather and corrosion measurements, 4 fiber optic interrogators and 15 GPS receivers integrated into a central server. The collected data are disseminated in a closed loop cyber-secured network that can only be reached via user authentication. All data are time synchronized within 3 milliseconds.

Geocomp’s iSite-Bridge software platform collects and manages 1GB of new data each day to assess bridge performance in real time. Intelligent data reduction algorithms show immediately the effects

of unusual loads and cumulative performance. Short and long term behavior can be seen from easy to read statistical summaries, data analysis reports and measurement correlations. The information is being used to mitigate risks to the bridge.



Geocomp’s web and GIS-based monitoring platform, iSiteCentral, lets you monitor your structure with your desktop, tablet or smart phone.



For more than 35 years, Geocomp has been a trusted partner in mitigating risk inherent in infrastructure.

RELIABLE
EXPEDIENT
VALUE-DRIVE
INNOVATIVE

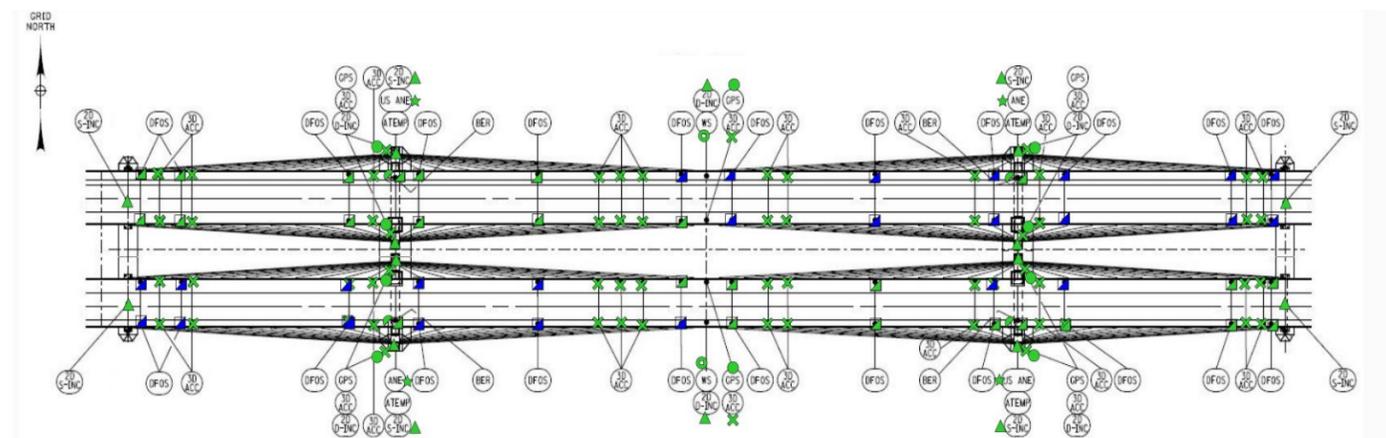
- Load Ratings
- Extreme Weather Effects
- Construction Activity
- Performance Analysis
- Life Extension
- Rehabilitation
- Maintenance Needs
- Asset Management
- Movable Structures
- Root Cause Analysis
- Noise and Dust
- Deformations and Tilt

Gold Star Memorial Bridge

iSiteCentral[®] collects data from sensor inputs and delivers informative reports in real time with automated alerts

Charts, graphs, tables, maps, photos, and reports provided through a geographic information system (GIS) interface, accessible 24/7

Real-time warnings of significant movement, stress, vibrations, noise, groundwater, and other performance metrics during construction & operation



EXPERIENCE YOU CAN TRUST

BRIDGES

Trusted with the most iconic bridge projects worldwide, Geocomp designs monitoring programs using the right technologies to help you meet your infrastructure challenges. Strain gages, accelerometers, fiber optics, or specialized sensors, our team works with you to determine what data you need to make critical decisions. Then we design a system to get you the information you need.

TUNNELS

Geocomp couples its in-depth geotechnical knowledge of soil, rock and water interaction with its understanding of structural performance to provide a comprehensive monitoring and analysis of underground conditions and potential hazards. We are uniquely positioned to provide an organized approach to identify, analyze, monitor, and respond to risks over the life of a tunnel project.

East Side Access Tunnel



BUILDINGS & STADIUMS

Geocomp routinely designs, installs and commissions monitoring systems for buildings and stadiums to help ensure safety, assess performance and determine maintenance and management needs.



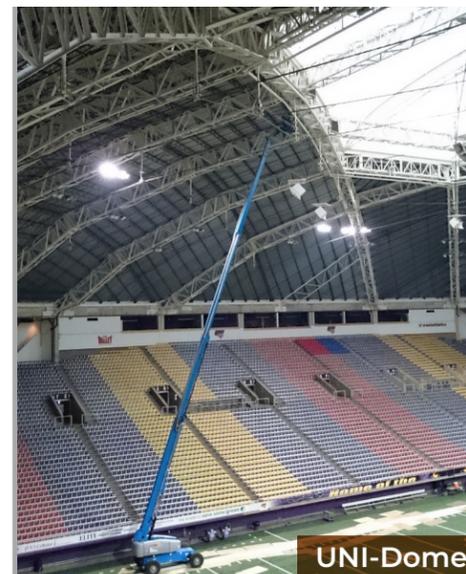
CT I-84 Bridge

DAMS & LEVEES

From monitoring the Kentucky Lock System expansion for over a decade to monitoring the New Orleans Levee System, Geocomp provides critical performance data to help ensure public safety.



Katrina Levee Failure



UNI-Dome



VALUE YOU CAN RELY ON

PIPELINES

Geocomp develops, installs, and monitors seismic integrity monitoring systems and deflection monitoring systems on critical pipelines such as the Penetencia Force Main Seismic Retrofit project and the Williams Gas pipeline. Long term monitoring and alert system are accessible anytime using the iSiteCentral web-based monitoring system.

WIND TOWERS

Our team designs, installs and commissions SHM systems to evaluate the performance of construction retrofits on the foundations for wind towers as well as fatigue evaluation of towers.



Offshore Wind Farm

PAVEMENTS

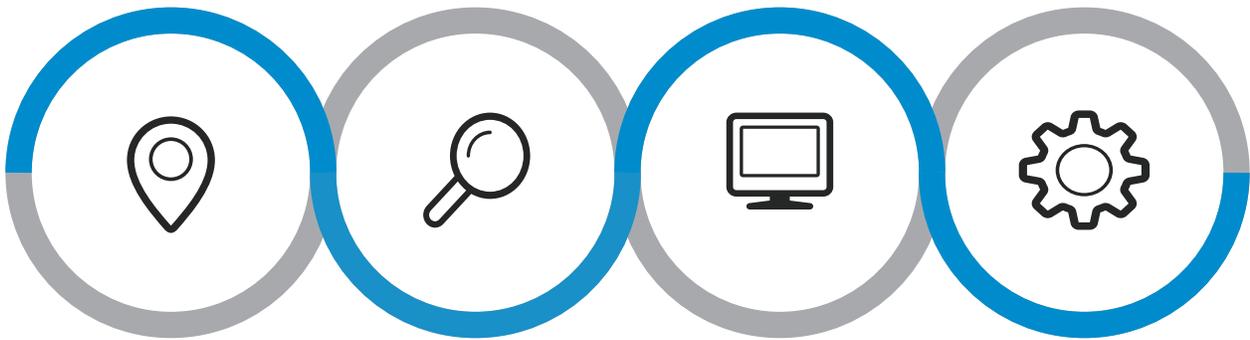
Geocomp provides a full line of pavement sensors used by the pavement industry for performance evaluation of different pavement designs; an example is the Honolulu International Airport runway. Other clients include leading researchers throughout the US and abroad as well as pavement monitoring projects for contractors and DOTs.

Honolulu Airport



INNOVATIVE SOLUTIONS

Geocomp provides comprehensive geotechnical design and performance monitoring services to clients across the United States and around the globe. Our professional staff combine in-depth understanding of structural and geotechnical material behavior with the latest in performance monitoring technologies to provide innovative and sound geotechnical solutions - resulting in better control of risk and cost of projects.



ACCESSIBLE

Single platform enabling access anytime, 24/7 from anywhere, on any device

UNIVERSAL

Can be scaled to support both small and large infrastructure projects on a global scale

WEB-BASED

Secure access, password protected web interface or task-specific application via desktop, tablet or mobile device

INTEGRATED DATA

Provides automated data, documents, maps, and photos to support rapid evaluation and interpretation of info.



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