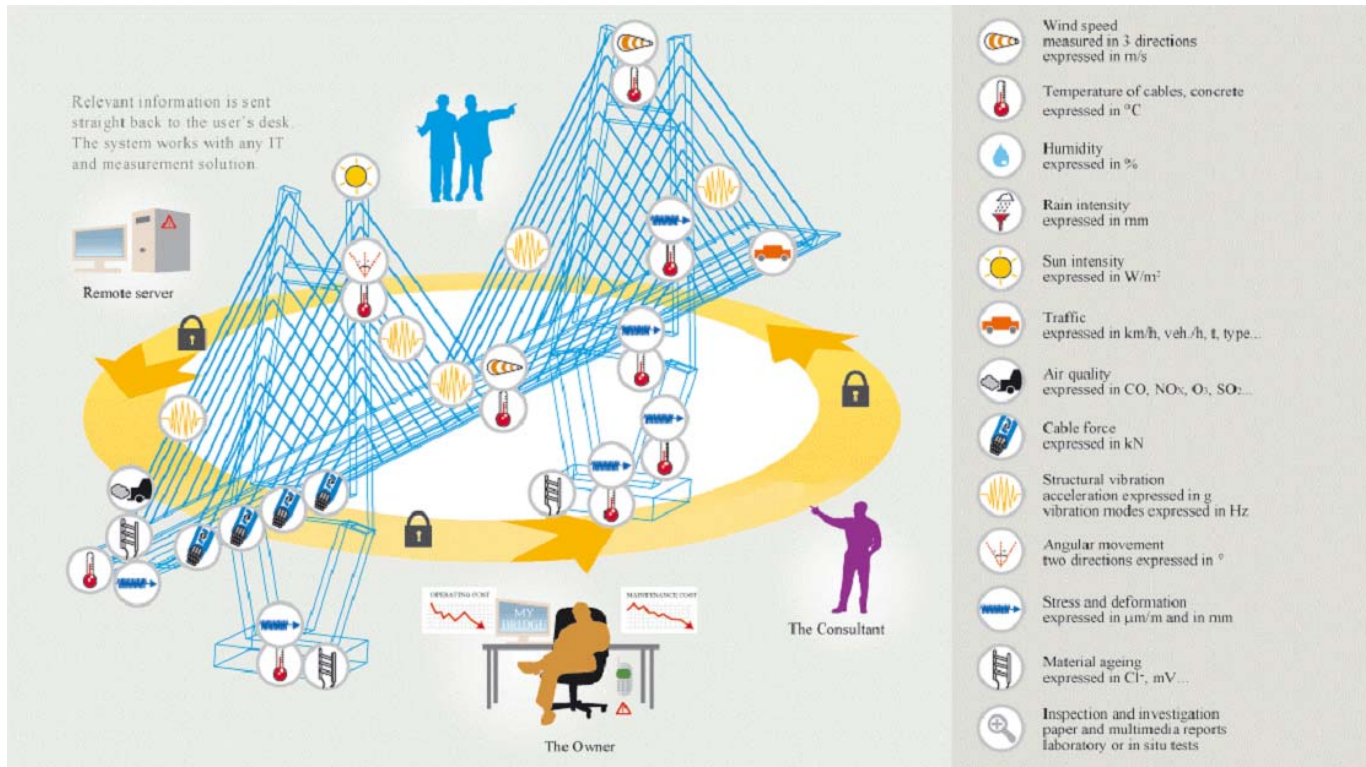


# DeMON—Instrumentation Monitoring System



## Web-based Real-time Monitoring of Instruments

**DeMon** is FT Laboratories **D**eformation **M**onitoring software application for structural and geotechnical instrumentation projects. The DeMon application provides a remote monitoring system to clients enabling them to access their instrumentation data remotely, anytime, anywhere through an Internet connection.

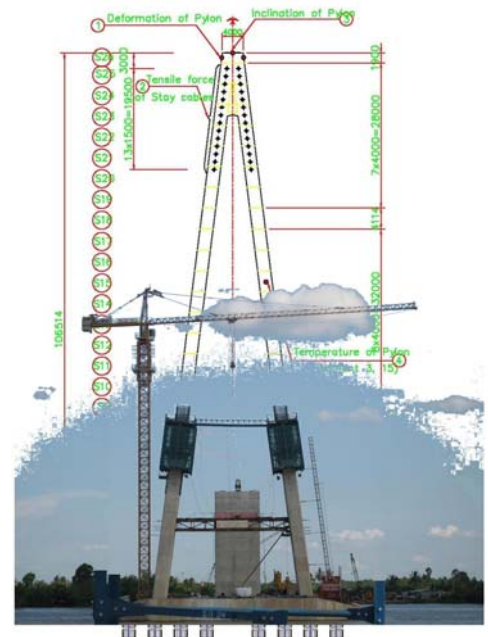


▲ DeMon Network on a Cable Stay Bridge

### Description:

- #### FEATURES
- Graphical User Interface
  - SMS / E-Mail Alerts
  - Worldwide Access by Internet
  - Data Exportation
  - Customized Reporting
  - Real-time Updates
  - Fully Scalable
  - GIS Supported
  - Secure Database Facility
  - Sensor Independent
  - Fully Auditable
  - Real-time Sensors Supported
  - Wireless Sensors Supported
  - Sensor Fault Detection

The DeMon application presents the client with an easy to use GIS (Geographical Information System) interface allowing easy navigation of the site or structure being monitored. This visualization presents the current status of the instruments, graphically identifying any instruments that have exceeded their response values and allowing the client to investigate further using DeMon's reporting and charting features. Using the Crystal Reports interface, custom reports can be designed and presented on demand. Engineers can also export data in csv, doc or xls formats for their own analysis.



▲ DeMon System Installed on Bridge in Vietnam

## Applications:

### Temporary instruments during construction

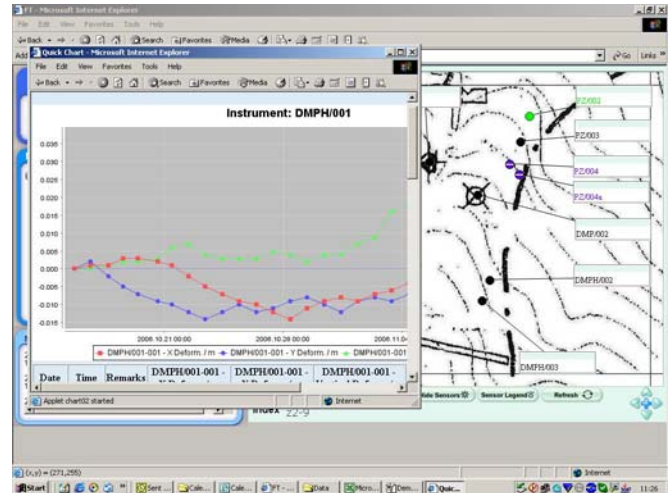
- Environmental control (i.e. tunneling)
- ADMS (Automatic Deformation Monitoring System) with robotic theodolites
- Railway construction & monitoring
- Earthworks monitoring
- Foundation construction & monitoring
- Structural monitoring
- Ground anchor monitoring
- Vibration monitoring
- Stay cable installation
- High rise construction—outrigger monitoring

### Permanent instrumentation

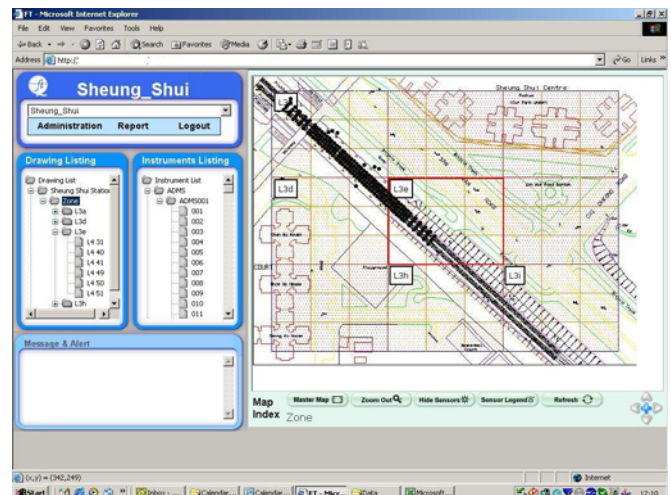
- Long term monitoring of complex structures: bridges, dams, viaducts
- Monitoring of building safety
- Seismic monitoring

### Special Projects

- Slope monitoring (Landslides)
- Heavy lifting (bearing replacement)



GIS and Quick Chart Display



GIS Display for an ADMS Project - Real-time Monitoring of Rail Track.



Typical on-site Geotechnical Instrumentation Locations

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