
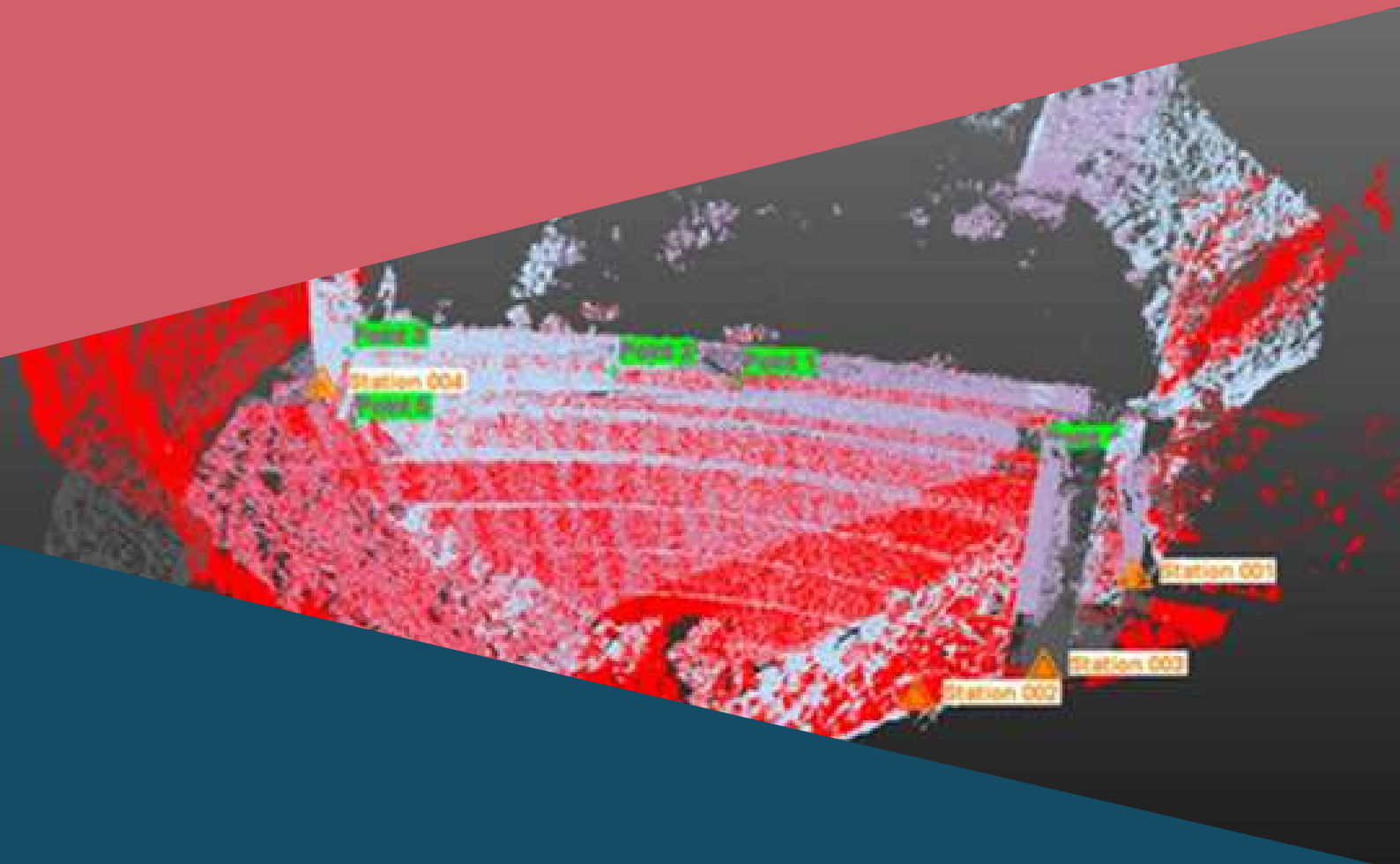


Product preview



geo-INFRA

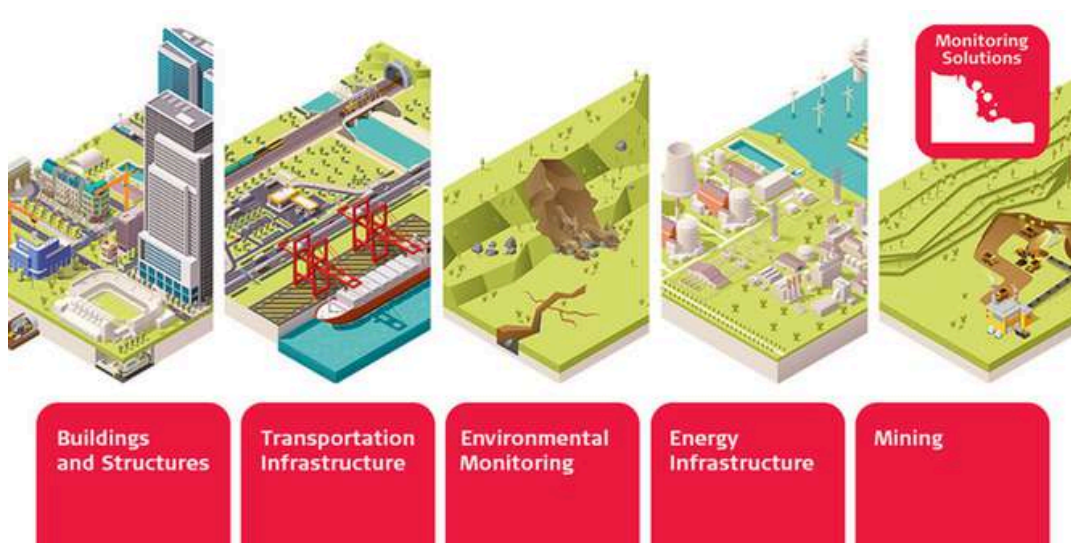
Critical Infrastructure Monitoring



Modern infrastructure must remain safe, resilient, and operational, despite aging, extreme weather, seismic activity, and increasing demands.

A multiparametric WebGIS platform for the holistic monitoring of critical infrastructure

→ 4D Web map environment with space-time visualization and user-friendly advanced remote sensing tools

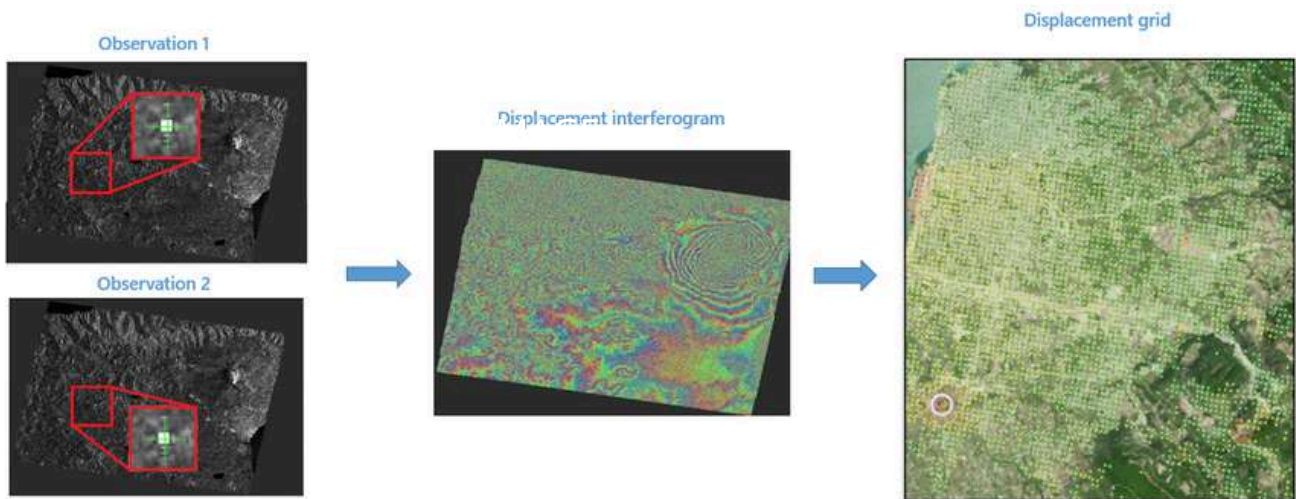


What we monitor :

- Ground and structural displacement
- Vibrations and dynamic events
- Trends, anomalies, and early-warning signals

Key technologies :

- Radar Corner Reflector (optimized for SAR displacement precision)
- High-precision GNSS (real-time, millimeter-level positioning)
- MEMS Accelerometer (vibration & seismic event detection)
- Satellite InSAR / PSI (dense deformation time series, updated with new acquisitions)



»» A primary benefit of infrastructure monitoring is the ability to react to worst-case scenarios, saving time and money and getting the following benefits:

- Boost reliability
- Early problem detection
- Prevent network outages
- Plan an appropriate budget for upgrades
- Recognize and respond to security threats
- Increase ROI
- Notifications in real-time



| Capability / criterion | Periodic manual inspections | Point-sensor-only monitoring | geo-INFRA |
|---|-----------------------------|------------------------------|-----------|
| 4D web map / space-time visualization | - | ◐ | ✓ |
| Ground and structural displacement monitoring | ◐ | ✓ | ✓ |
| Vibration and dynamic event monitoring | ◐ | ✓ | ✓ |
| Trends, anomalies and early-warning signals | - | ◐ | ✓ |
| Satellite InSAR / PSI integration | - | - | ✓ |
| High-precision GNSS integration | - | ✓ | ✓ |
| MEMS accelerometer integration | - | ✓ | ✓ |
| Holistic multiparametric monitoring | ◐ | ◐ | ✓ |
| Real-time notifications | - | ✓ | ✓ |
| Coverage across multiple infrastructure domains | ◐ | ◐ | ✓ |

◐ : yes - : no ◐ : not fully



Monitor today. Predict tomorrow. Protect the future.