

Application Fields Matrix

		Application Fields						
		Strong Motion Networks	Seismic Networks	Dams	High Rise Buildings	Rapid Response Systems	Nuclear Power Plants	Structural Monitoring
# of Channels	3-channel	●	●	●	●	●	●	●
	6-channel	●	●	○	○	○	●	○
	Multi-channel	○	○	●	●	○	●	●
Resolution	12/16 Bit	●	○	○	●	●	○	○
	18 Bit	●	○	●	●	●	●	●
	24 Bit	●	●	○	○	○	●	●
Output	Acceleration	●	●	●	●	●	●	●
	Velocity	○	●	●	○	○	●	●
	Environment	○	○	●	●	○	○	●
Installation	Surface	●	●	●	●	●	●	●
	Downhole	●	●	●	○	○	●	○
Communication	Radio	●	●	●	○	○	●	○
	GSM/GPRS	●	●	○	●	●	○	●
	Modem	●	●	●	●	○	○	●
	Internet/LAN	●	●	●	●	●	●	●
Power	Battery	●	●	●	●	●	●	●
	Solar	●	●	●	○	○	○	○
	AC	●	●	●	●	●	●	●

- Standard usage
- Non-standard usage

GeoSIG Ltd
 Ahornweg 5A
 5504 Othmarsingen
 Switzerland

Tel : +41 44 810 21 50
 Fax: +41 44 810 23 50
 E-mail: marketing@geosig.com
 Website: www.geosig.com



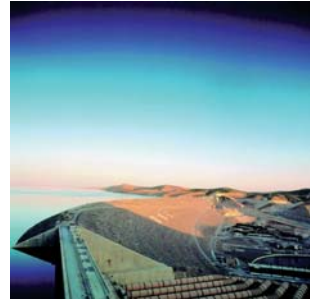
Monitoring and Measuring Solutions

GeoSIG provides earthquake, seismic, structural, dynamic and static monitoring and measuring solutions

Dams

One of the likely effects of climate change across the world is that over the next decades in certain geographical areas there could be an increased need for dam monitoring equipment due to increased importance of dams. Since the dynamic behaviour of dams under severe earthquake motion is not known satisfactorily, data from strong motion instruments can form the basis for a more reliable seismic assessment of the existing and future dams.

GeoSIG has maintained a strong presence and a respected name around the world also in the area of dam monitoring solutions.



Nuclear Power Plants

The nuclear power industry is one where each country sets its own detailed quality and safety specifications within a framework that typically could include a high profile customer working in conjunction with consultants, safety bodies, main contractors and other interested parties as and when power generation requirements (either existing or new) reach a review stage. Highest quality measures and scrutiny levels must be achieved in such mission critical projects.

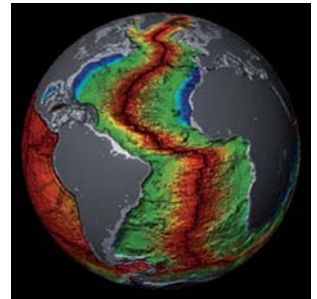
GeoSIG demonstrates this broad understanding of such complex systems by having completed nuclear power station projects for select customers around the world.



Rapid Response Systems

Several national or global authorities seek optimal solutions to differentiate and understand the occurrence probability and effects of earthquakes causing light to massive damage. Any risks associated to such hazards needs to be carefully managed. In order to do this the basic requirement is to have a reliable, robust and comprehensive monitoring system based on latest technology and experience on such solutions. Using such systems rapid response for the relief of disaster effects as well as early warning of potentially catastrophic events may be possible.

GeoSIG sustained a strong name in providing earthquake monitoring solutions utilised for rapid response and/or early warning systems.



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E-mail: marketing@geosig.com
Website: www.geosig.com



Swiss Quality superior measuring solutions

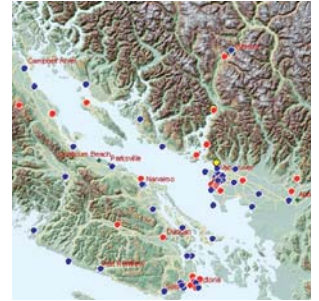
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Strong Motion Networks

Scientific communities around the world deploy and operate large scale nationwide instrumentation networks in numerous countries that are in active seismic regions. Such networks target to detect any ground movement, local or remote and form a comprehensive database. Scientists utilise this data in understanding the associated natural behaviour and in analysing to attain reliable estimates for future awareness, preparedness, prevention and management.

GeoSIG has supplied state of the art instrumentation and services to several world renowned projects for earthquake or seismic instrumentation.



Structural Monitoring

For bridges, tunnels, railways, and similar lifelines as well as numerous fundamentally important assets such as hospitals, government or cultural heritage structures for any nation around the globe, sustainability, safety and reliability are the major concerns. In order to achieve and maintain these, competent monitoring systems should be deployed in topologies involving temporary and/or permanent applications, resulting in in-depth analysis and health evaluation reports.

GeoSIG has a highly developed and broad range of solutions to meet any customer demand with versatile, easy to deploy, low maintenance and sustainable systems.



High Rise Buildings

In parallel to the accelerated development of the human civilisation, urban areas grow rapidly as being centres of attraction for masses of population. Numerous high-rise buildings being inhabited as either office, commercial, residential or recreational purposes have been constructed and numerous others, even larger and higher are being planned or actually constructed. Importance of monitoring such buildings is of utmost interest for the local governments and new laws or regulations enforce that these structures are permanently instrumented with appropriate earthquake monitoring systems.

GeoSIG provides certified systems for such buildings around the world, complying to many national and international guidelines, having hundreds of units in operation.



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