SYTMIS software suite for seismic monitoring of underground operations and geostructures

SYTMIS is a suite of software to build the best cost effective seismic monitoring solution, whether in a stand-alone mode or in multi-scale arrays and multi-users environment.

SYTMIScop turns your PC windows-based computer into a powerful flexible seismic recording system. It offers numerous options, including an advanced dual continuous and triggering acquisition mode with different sampling frequencies and a LAN collecting scheme for multiple SYTGEM units.

SYTMISview is used to visualize seismic wavefoms, to check automatic processing and to enhance data analysis on an interactive mode.

SYTMISauto is used to process in real-time seismic files and includes many parametrable routines ranging from file association, instrumental correction, 3D ray tracing in complex velocity models, location, source parameters and active direct access to a data base management system.

Highlights

Routine processing

In-depth analysis

Easily scalable solution
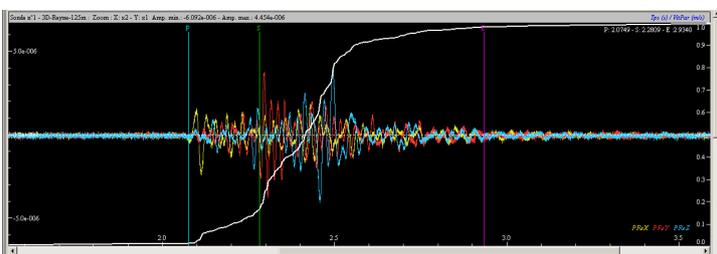
Multi-arrays management

Field of applications

Mines and quarries

Geological storage

Reservoirs
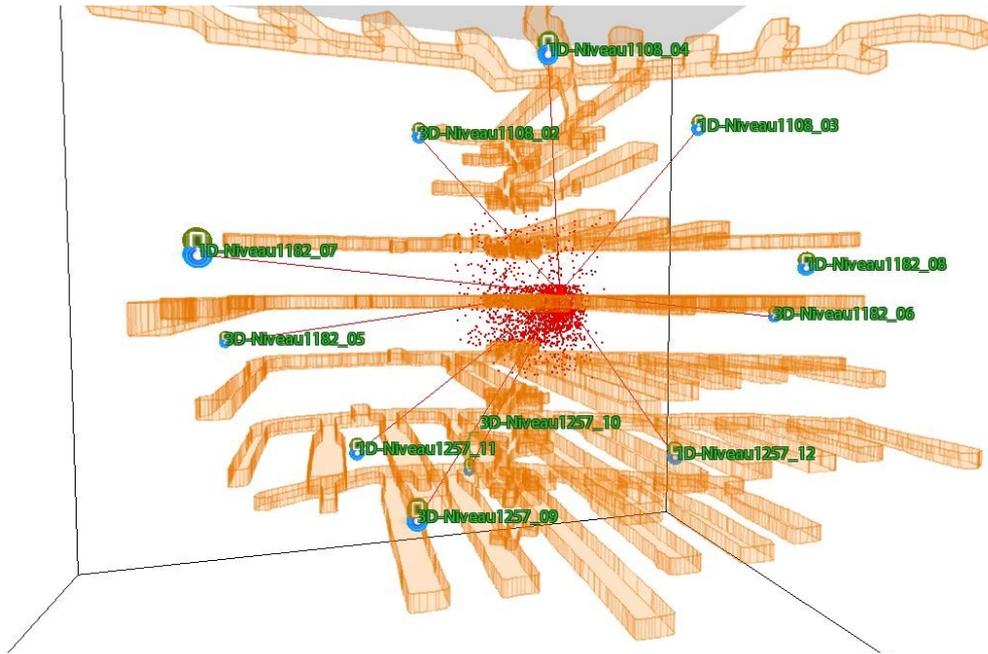
Geothermal systems

Dams

INERIS

controlling risks for sustainable development

SYTMIS software suite for seismic monitoring of underground operations and geostructures

SYTMIS4D is used to analyze the space-time distribution of seismicity in a 3D geostructure, with options to visualize superimposed modelled objects, ray tracing, density probability functions, and time lapse seismic activity for enhanced expertise of seismic hazard.

3D perspective of a 300x300x300m mine layout and its local seismic network, showing ray tracing, source location and density probability function related to a significant event.

SYTalarm connects SYTMIS to ALERT® software to automatically manage warning messages to on call duty staff.
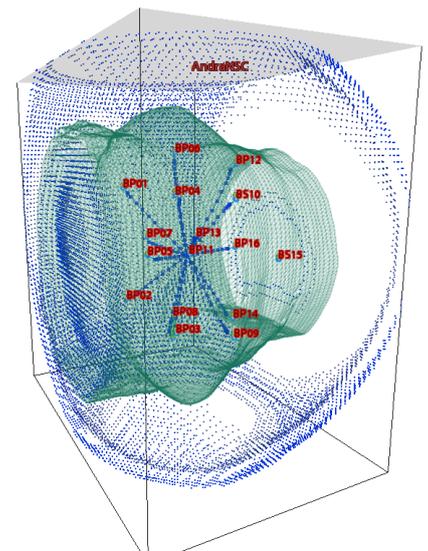
SYTMIS is used extensively in INERIS operations, through its research projects and operational services. It offers a unique integration level with the **e**.**cenaris** web infrastructure for remote administration of seismic systems as well as premium management, quality control, data sharing and reporting. SYTMIS suite is available as a component of a complete monitoring solution including hardware and services.

3D perspective of an acoustic array encased in an engineered concrete bulkhead to seal a deep tunnel.

SYTMIS® , SYTGEO® et SYTGEM® are registered trademarks of INERIS.

ALERT® is a registered trademark of MICROMEDIA International.

Specifications subject to change without notice.

For more information and custom applications, please contact us: **cenaris@ineris.fr**

INERIS
maîtriser le risque
pour un développement durable