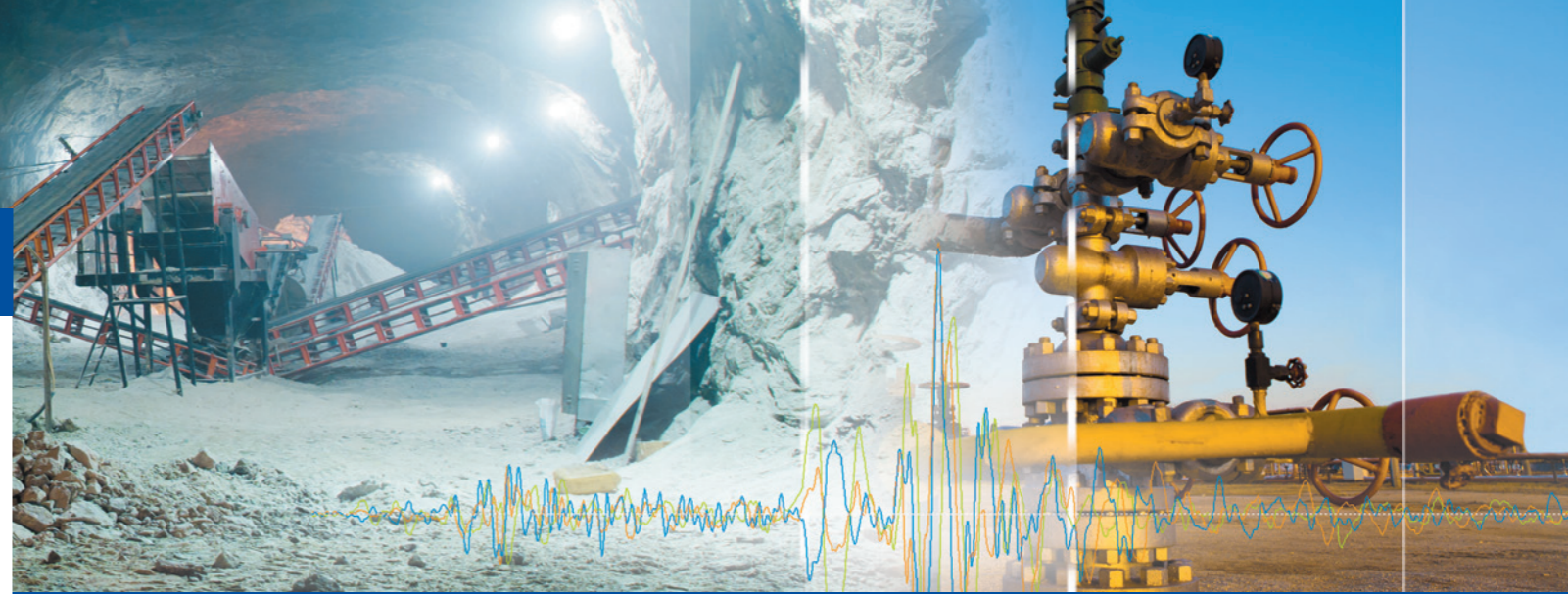
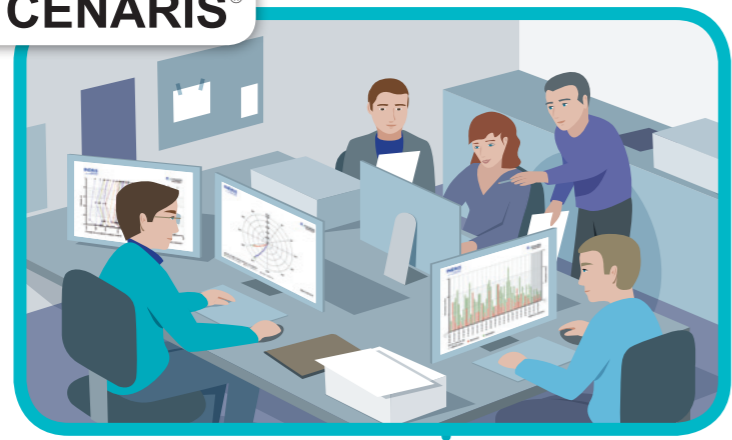




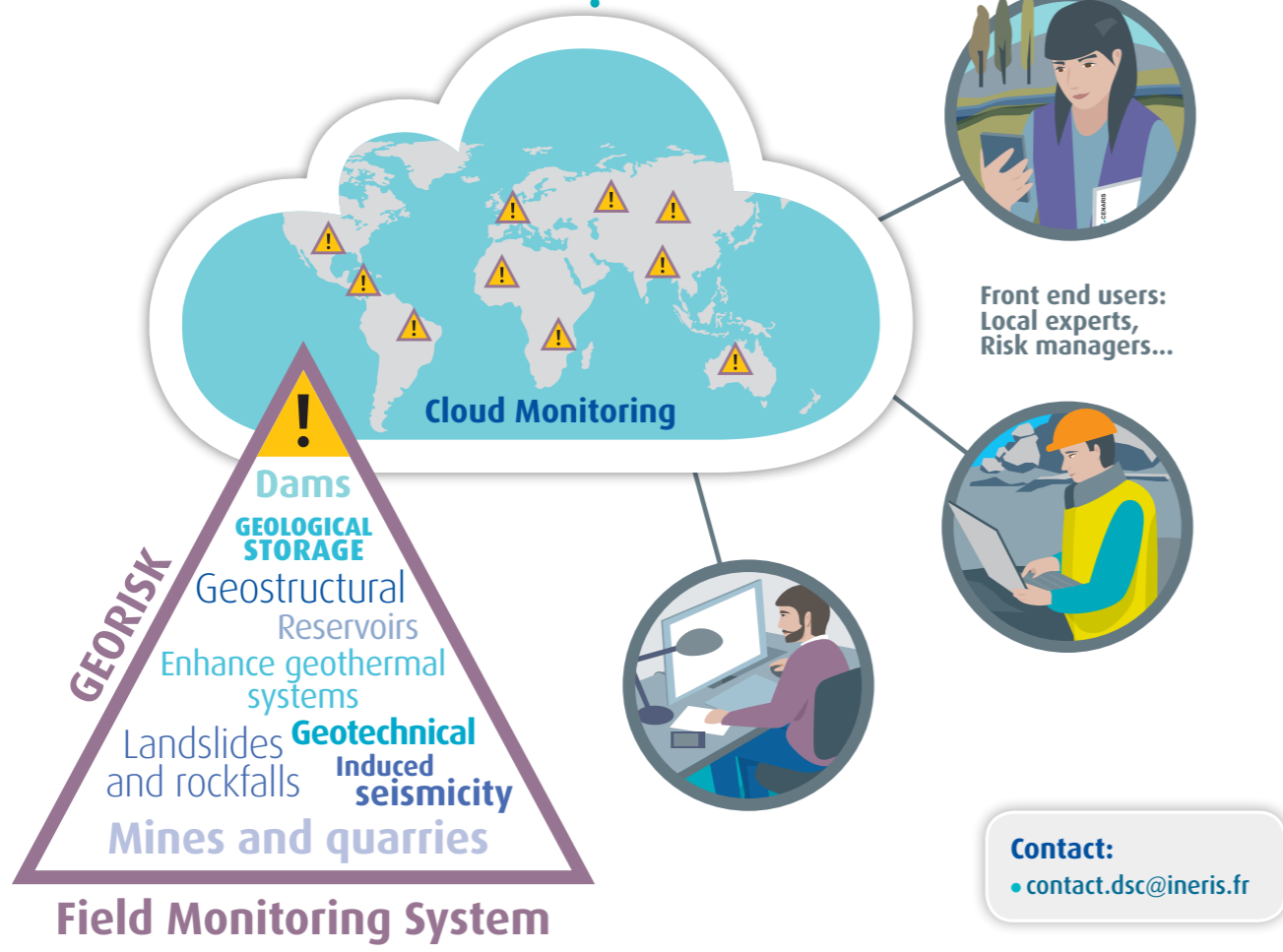
# Cloud Monitoring Solution

e.CENARIS®



# Cloud Monitoring Solution

for observational research and monitoring services related to underground operations and geostructures



<http://cenaris.ineris.fr>

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# / Cloud Monitoring Solution /

## Streamlined monitoring and database management

Incoming data flow from a multiparameter monitoring system on the field is automatically integrated in the database server, securing raw data in a smart way /

## On-line data processing and advanced plotting

Raw data is processed through advanced numerical routines to yield new relevant variables within customized plots and catalogues /  
Times series of raw data: displacements, strains, levels, pressure, stress, tilt, seismic mapping - and processed data: cumulative, mobile average... are up-dated automatically /  
More advanced graphic capabilities include distributions, 2D/3D multi-axis lines, multi-bar, XY, radar, and many other types along with regression analysis and statistics /

## Tailored web monitoring desk

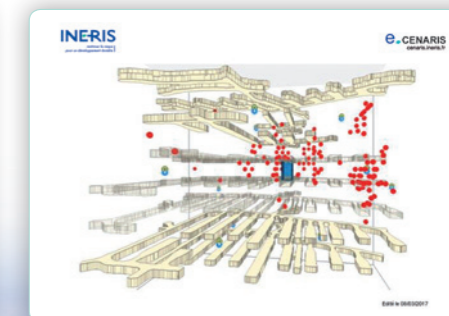
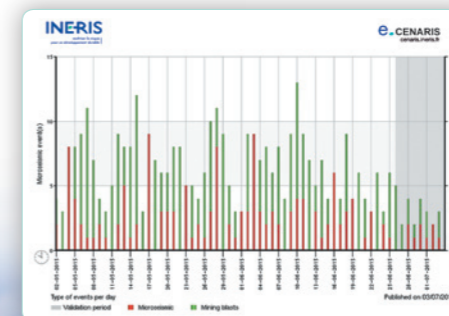
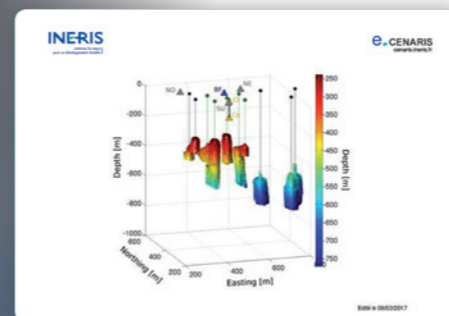
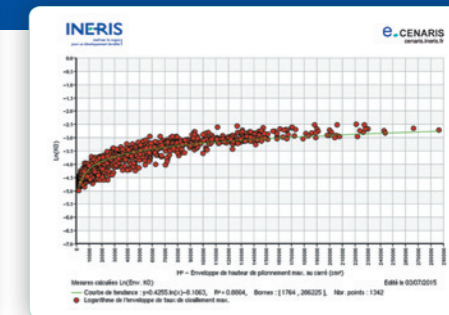
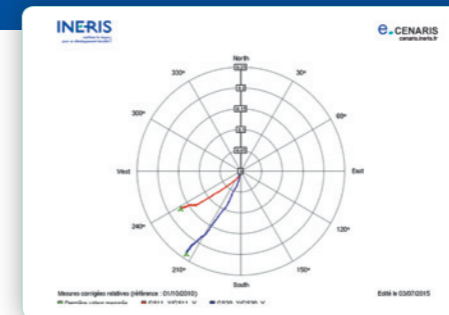
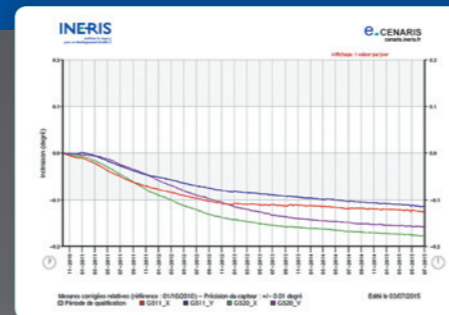
Web monitoring is designed to fit operational needs through a tailored set of web pages for an easy access to the relevant information. Mix advanced plots and charts, filtered catalogues and maps for a comprehensive interactive insight /  
Interactive mapping and visualization of data through Google Maps plugin, SYTMIS3Dweb, and GIS software /

## Data and metadata sharing

Import production and environmental data for advanced correlation with monitoring data and enhanced forecasting analysis /  
Download data, filtered catalogues and plots for in house processing and easy reporting /  
Download - upload data, reports, minutes, technical files, maps, pictures in secured folders for smart sharing /  
Administration is easier with the built-in ticket reporting system to optimize maintenance operations /

## Messaging for operational decision-making

Logical combination of triggering thresholds with conditions related based on raw and processed data activate messaging and in house application for information transmission /



- Increase productivity and operational efficiency
- Feature unique integration for early warning systems
- Offer networking and multi-monitoring capabilities
- Enhance data quality, expertise and risk management focus
- Provide security requirements