Access and review real-time and fully processed seismic event data via a secure web portal, from anywhere at any time.

**Critical seismicity information at your fingertips**

**How does Athena support risk management?**

- Continuously tracks temporal variations in seismicity rates and b-values in your region of interest as a potential measure of the likelihood of occurrence of larger magnitude events.

- Measures the impact of detected seismicity via real-time ground motion measurements and reports.

- Displays maps of ground shaking distribution showing predicted ground motions in areas with no seismic stations.

- Reports on automatic event detection and manual event review response times, with the overwhelming majority of events detected in under 1 minute.

- Sends notifications based on custom magnitude, seismicity rate or ground motion thresholds.

- Supports automatic event import from public data feeds as a way of comparing your event source parameters to those from public catalogs.
EVENT PARAMETERS

- Tracking and display of complete event source parameters including event location, location uncertainty, magnitudes (Mw and ML), moment tensors and focal mechanisms
- Station phase pick data
- Station magnitude and amplitude data
- Customized mapping by event attributes with user-provided reference overlays
- Catalog search and reporting capability by any event source parameter

GROUND MOTIONS AND SHAKE MAPS

- Geographical distribution of ground shaking (PGA, PGV, MMI)
- Calculated ground motions for each station in real-time following an event (PGA, PGV, RSA)
- Color coding of stations and recorded ground motions according to ground shaking intensity
- Shake maps with ground motions in grid points with no stations and as interactive overlays, including displays for larger events

WAVEFORMS AND STATION METADATA

- Display of filtered event waveforms with P and S pick overlays
- Waveforms ordering by station or proximity to the event
- Supports downloading of waveform data in MiniSEED format and station metadata in dataless SEED format

FREQUENCY-MAGNITUDE DISTRIBUTION PLOTS

- Computation and display of magnitude of completeness (Mc) and b-values
- Custom selection of event clusters in space and time
- Tracking and plotting of temporal variations in b-values in parallel with the seismicity rate graphs, in near real time

Its ease of use makes for seamless organizational integration

■ Moment tensor solutions for single events, event clusters or all events above M 2.0 within an array
■ Displays focal mechanisms in Google maps
■ Manages instrument and station metadata
■ Allows easy selection and download of sections of the catalogue
■ Supports a large user base, but allows you to grant each user only the privileges they need
■ Allows for custom branding of the web interface