

# The **ISTI** *ADVANTAGE*

Geothermal Induced Seismicity Monitoring Services

*Real-Time Decision Support  
Know as you go!*

**EXPERIENCE:** Many Years Working in the Geothermal Domain

**KNOWLEDGE:** Consulting Seismologists

**INSTRUMENTATION:** Near Surface, Borehole, Deep Borehole

**INFRASTRUCTURE:** Secure, Redundant, Reliable Cloud Data Center

**24/7 OPERATIONS**



Instrumental Software Technologies, Inc.

[isti.com](http://isti.com)

# Geothermal Stimulation and Operational Monitoring

*Custom Networks to Meet Any Requirements*

## COUNT ON ISTI FOR:

### Geothermal Well Monitoring Operations Driven Approach

- Meet hazard monitoring requirements
- Continuous monitoring of both private well array and state or USGS systems
- Dual use potential-induced seismicity and potentially operational monitoring from a single system depending on network design and site conditions
- Automatic Alerting thresholds by magnitude, location and/or depth

### The ISTI *ADVANTAGE* Monitoring System

- Real-time event detail available on your private ISTI *ADVANTAGE* web portal instance and by API for easy in-house GIS or Dashboard System Integration
- Real-time seismic catalog updates
- Service-level agreements tailored to operational requirements

### State-of-the-Art Processing Techniques

- Optimized processing system proven to detect well scale-Induced Seismicity
- Advanced processing techniques, including double difference, template matching, and machine learning.
- Event review by experienced analysts
- Automatic ShakeMap generation and ground motion analysis

### Instrumentation

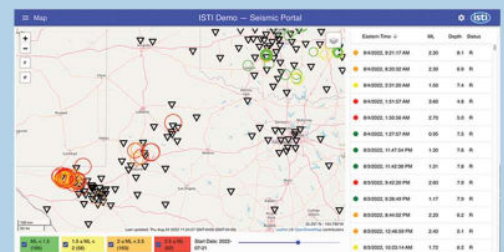
- Seismometer performance optimization keep costs down
- Proven track record for reliability
- Near Surface, shallow borehole, deep borehole options
- Expensive broadband sensors are not required

### Scientific Expertise

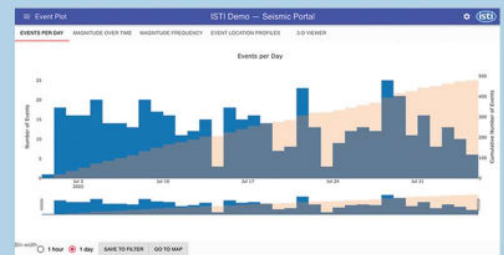
- Seismologists with significant operational experience
- Network design and velocity model creation
- Consulting PhD seismologists for design and advanced data interpretation
- Custom Software Development

ISTI installs seismic stations, including autonomous solar power, real-time wireless telemetry, digitizers, and seismic sensors. Look to ISTI for a turnkey solution.

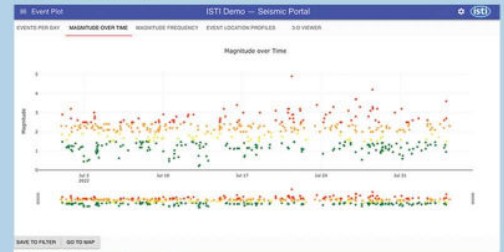
## ISTI *ADVANTAGE* PORTAL EXAMPLE VIEWS:



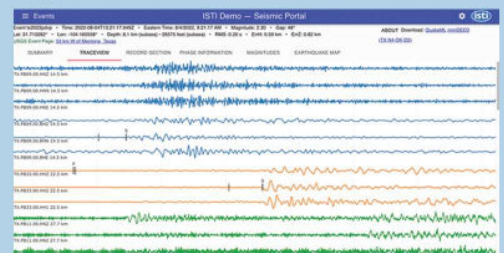
*ADVANTAGE* Web Portal Homepage



Events Per Day



Magnitude Over Time



Traceview



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