

The **ISTI** *ADVANTAGE*

CCUS Seismic Monitoring Services

Real-Time Decision Support
Know as you go!

EXPERIENCE: Supporting Class VI Permit Applications

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

Class VI Well Induced Seismicity and Plume Monitoring

Custom Networks to Meet CARB/EPA Permit Conditions

COUNT ON ISTI FOR:

CCUS Well Monitoring Operations Driven Approach

- Meet EPA, CARB or other regulator permit conditions
- Continuous Monitoring of both private well array and state or USGS systems
- Dual use potential - induced seismicity and potentially plume monitoring from 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

- Processing system optimized and proven for detecting well scale Induced Seismicity
- Advanced processing techniques including double difference, template matching and machine learning.
- Event review by experienced analysts

Instrumentation

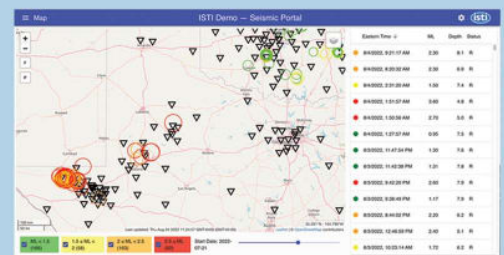
- Seismometer performance optimization keep costs down
- Proven track record for reliability
- Near Surface, shallow borehole, deep borehole options
- Expensive broadband sensors are not required

Scientific Expertise

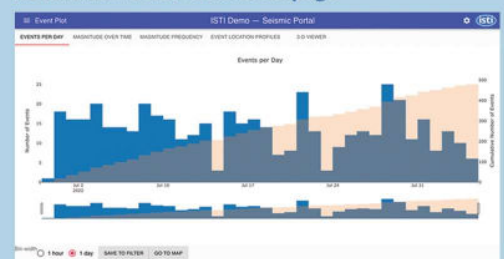
- Seismologists with significant operational experience
- Network design and velocity model creation
- PhD consulting seismologists for design and advanced data interpretation
- Custom Software Development

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

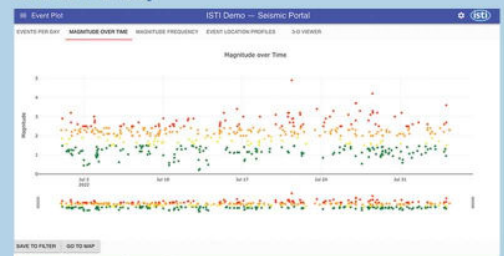
ISTI *ADVANTAGE* PORTAL EXAMPLE VIEWS:



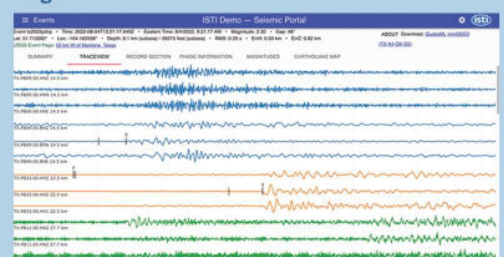
ADVANTAGE Web Portal Homepage



Events Per Day



Magnitude Over Time



Traceview



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