

SPACE•TIME INSIGHT

Space-Time Insight

Designed for energy utilities, independent systems operators, and other critical infrastructure companies, Space-Time Insight's Space-Time Awareness Server and geospatial composites deliver a unique value proposition: a single, intuitive geospatial view for complete situational awareness—and fast, informed action from the same screen. Only a geospatial composite can deliver a single, high-context, condition and location-based view of real-time operating status and multi-dimensional visual analytics.

Operators can:

- Visually track and assess extreme weather and natural event impacts on operations and launch fast corrective action to prevent or mitigate degradation and outages.
- Automatically correlate multisource real-time and enterprise data on-the-fly to display visual analytics on satellite images of assets and urban, suburban and rural terrain for high-context, situational awareness and fast, confident action.
- Leverage the utility's existing IT and operational technology with automated integration and geo-aware analytics for contextually-informed decisions.
- Visually pinpoint and mitigate power loss from theft, line breaks and asset failures.
- Geospatially optimize condition-based maintenance programs for geographically-distributed assets, to assess real-time performance versus thresholds.
- Prevent or mitigate congestion-related brownouts and rolling blackouts in developing markets, allowing uninterrupted commerce and normal daily life.
- Geospatially view and verify energized lines to alert and protect field crews from injury.
- Use full-context, multi-source replay of events to verify the root cause of community and environmental damage, enabling documentation of causes beyond a utility's control, reducing painful, costly litigation and regulatory fines.
- Trigger policy and regulatory compliance action with rule-based alerts, automated communications and onscreen action scripts for authorized remediation.

Space-Time Insight displays real-time, location and condition-based visual analytics on interactive, 3D satellite images for fast, informed decisions and timely responses to shifting conditions and critical events.

Core Functionality

Space-Time Insight automates geospatial-temporal



Mark L. Feldman, PhD
CEO
Space-Time Insight

visualization of data from real-time, high volume sensor networks, web feeds and enterprise databases and applications. Data and analytics are intuitively displayed on interactive satellite images with geo-links for delivering more detailed information and for triggering preventive and corrective action. This gives operators high-context situational awareness for location and condition-based decision making and confident action-taking.

By aggregating and integrating data and functionality from applications and databases throughout the enterprise and by combining this data with real-time data feeds (weather, remote sensors, video, traffic), all avail-



Screenshot of Space-Time Insight's Historical Replay feature showing phase angle differences of Phase Measurement Units (PMUs) in the path of a hurricane.

able information relevant to an event or asset is captured—in context—for fast, informed decision making.

Space-Time Insight correlates data against operations rule-sets to produce relevant and timely visual notifications, alerts, geospatial analytics and asset operating status relative to key performance indicators.

Real-time geo-links to underlying enterprise applications and on-screen, pop-up action steps trigger information-rich workflows for preventive action, mitigation of evolving situations or remediation of identified problems. The pop-up scripts enable faster action-taking and include automated incident reporting for compliance purposes.

Playback of events in full-context enables audit, forensics, problem-solving, planning and training.

Field engineers and off-premise employees with mobile devices can retrieve and update situational data in real time for actionable control room intelligence.

For more information, visit www.spacetimeinsight.com.