Hazard Modeling & Analytics

New Insight Through Transformation of Information Delivery

For emergency managers involved in planning for, responding to, and recovering from major natural disasters, timely access to wide-ranging information about weather, elevation, population, infrastructure, and more is crucial. However, combining diverse data to build hazard models remains challenging for many organizations due to its complexity and inherent disparities in data characteristics.

NLT offers unrivaled expertise building risk-based hazard models used for mission critical planning and response operations for major natural disasters including hurricanes, floods, earthquakes, tsunamis, tornadoes, CNRNE and other synthetic threats. Our unique expertise in developing automated solutions for integrating geospatial, scientific, and other sensor data into models for ear real-time hazard risk prediction, analysis, visualization, and information dissemination enables customers to quickly receive actionable information on potential impacts.

NLT's deep IT and Geospatial expertise is pioneering cloud computing solutions for real-time integration, modeling, analytics, and dissemination of hazard data at scale delivering improved efficiency, performance, scalability, interoperability for large organizations.

NLT's automated cloud-based hazard modeling and analytics solution offers:

- Real Time Updates
- Comprehensive Impact Data
- Specific Threat Analysis
- Flexible Analyses & Visualizations
- Intuitive Dashboard Interfaces
- Open Data APIs
- Crowdsourced Damage Assessments

Cloud-based Hazard Modeling & Analytics Platforms
Highly scalable cloud-based computing environments for unified large hazard model processing and deployment of curated analytics and applications for internal and external consumption.

Automated Hazard Exposure (All Hazards)
Early warning spatio-temporal multi-source data composite map providing exposure probability and estimates for **earthquakes hurricanes, floods, tornados, tsunamis, and wildfires**.

Flood Prediction, Detection, & Depth Forecasts
Early warning prediction and detection based on spatio-temporal multi-source optical and SAR imagery providing flood likelihood percentage. Predicted water depth forecasts based on real-time USGS and NOAA water level readings & high resolution elevation data.

Web-based Hazard Analytics Visualization Tools
Lightweight Intuitive interactive dashboards, maps, geo-enabled plans, common operating pictures (COPs), and decision support tools for accessing, visualizing, and sharing crucial hazard data.

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