



sanborn
geospatial



Sanborn Automated Damage Assessment

Annually, natural and man-made disasters destroy billions of dollars in property and other assets throughout the United States. Natural disasters not only present an inherent threat to human life and infrastructure, but also impact air quality, recreation, timber harvests, hydrology, wildlife, and the overall ecosystem. Damage and future risk can be assessed with Remote Sensing technology data sources, such as optical, lidar, and thermal, hosted within a geographic information system (GIS). This technology is critical for the development and implementation of comprehensive disaster management plans and resiliency.



Geospatial data helps detect and map the changes caused by many types of disaster incidents. Mapping and identifying changes in an area after a destructive event allows up-to-date data to be integrated into the immediate response efforts and the recovery planning process.

Emergency response teams must identify the following objectives in order to properly respond to an incident:

- Identify the location, timing, and severity of conditions following an event or disaster.
- Assess threats, risks, and vulnerabilities to infrastructure and populations within the area of interest.
- Develop a course of action to respond and mitigate the identified threats, risks and vulnerabilities.

Emergency response teams must identify the following objectives in order to properly respond to an incident:

- Ability to collect post event data in a timely fashion
- Speed of delivery with near-time data processing and analytics
- Accuracy of content analysis
- Ability to generate actionable insights and informative decisions from outputs

An aerial photograph showing a large, rectangular, light-colored building complex, possibly a government or institutional structure, surrounded by greenery and roads. The building has a flat roof and is divided into several sections. There are roads and parking areas around the building. The surrounding area is mostly green, indicating vegetation or fields.

Map Legend

Property Assessment

Damage Classification

- Destroyed | > 50%
- Major | > 20%
- Minor | > 5%
- Affected | > 5%
- No Observed Damage | < 5%
- Unknown

Marshall Wildfire Boundary

Residential Damage

\$444,878,060.06

Buildings: 1,255

Commercial Damage

\$3,164,016.75

Buildings: 3

Agricultural Damage

\$4,573,009.83

Buildings: 9

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