# Case Study | GIS for Disaster Management

## BUSINESS REQUIREMENTS

The customer is a Japanese government agency tasked with coordination between disparate government agencies during Natural Disasters that occur in Japan.

### Our Solution

- All first-hand information captured by the application is sent to a central disaster management team that validates the information, processes it and then uploads frequent social media updates
- Geo-Spatial data, via google maps, is used to provide specific information related to the immediate areas around the disaster
- System also generates a Custom Map Framework for recording detour information
- Multi-process disaster management system
- Notification system is integrated with social media

### Technology Stack



Google Map v2 for Android, Rest API, WKT, Java, Spring, Hibernate, SQLite, Google App engine, Google Maps for Business v1.0, Google Authentication utilities, Google Cloud Storage

### Benefits

Real-time updates, including visual data at street level during natural disasters gives a complete and holistic picture to government agencies, support agencies

Multi-processing done in the back-end ensures data is completely validated before being presented to the public.

Custom map overlays of Geo-Spatial information ensures pinpoint accuracy and better manage obstacles, detours, traffic, etc... in near real-time

Real-time notification to multiple social media platforms ensures that public can easily consume and share relevant information – efficiently and quickly