SuperMap iMobile platform - What can you do for earthquake relief?

The earthquakes keep happening around the world. The 7-magnitude earthquakes hit Afghanistan, Burma, Japan, Ecuador, bringing serious damage to those countries.

SuperMap iMobile platform has been widely used in earthquake relief with its 6 professional GIS functions.

1. Integration of online and offline maps: combination of multi-source maps

The strong earthquakes can disconnect communication network and therefore, which makes online maps unavailable.

SuperMap iMobile can visit online maps and offline maps stored on the local devices, which depends less on internet, bringing users more smooth experience. In addition, when using local maps, the types of vector, image and tile data can be chosen.
2. Data collection: acquire first-hand disaster information

Quickly acquiring information after earthquake can provide vital basis for decision-making process.

SuperMap iMobile provides collection method of ‘Location+Sheet+Multimedia’, which makes on-site data collection more accurate, forward and stereoscopic. The location information can be acquired by satellites or hand drawing, which supports geometry like drawing point, line and surface. The multimedia data can be collected by audio, picture and video.

3. BeiDou (Compass) short messages: Connection to the earthquake area

The strong earthquakes always lead to disconnection of power and communication, the earthquake area will be isolated with the outside world.

SuperMap iMobile supports BeiDou short message. In the situations of disconnection of communication and power, the BeiDou short message can be used to communicate. In the WenChuan earthquake in 2008, the rescue team used BeiDou short message to communicate and provide disaster information for headquarters.
4. **Interconnection: Flexible dispatch**

In the earthquake rescue, headquarters needs to distribute rescue missions to rescue teams and team members need to share data.

SuperMap iMobile uses bus technology, realize multi-terminal collaboration and data distribution, acquire data from multiple mobile terminals, highly improved efficiency.

5. **Status labeling: Clearer command**

A clearer mission description can improve rescue efficiency.

SuperMap iMobile provides abundant line, fill symbols, combining with drawing, doodling functions, allowing command information being expressed quickly and forwardly.

![Status labeling](image)

6. **Full GIS functions: Essential support for disaster rescue**

SuperMap iMobile provides full GIS functions, specifically including: map operations, map measurement, data collection, mapping editing, spatial analysis, information query, track collection.
How can we improve the rescue ability and control the damage after the earthquake?

**On-site rescue information service terminal**

‘On-site rescue information service terminal’, which was developed for China national earthquake response support service center based on Supermap iMobile, can realize quick information collecting and reporting, experts consulting, BeiDou short message receiving and sending. It showed great results in WenChuan earthquake rescue and ZhouQu earthquake rescue.

**On-site rescue map**

On-site rescue map supports online and offline maps, providing professional maps like topographic map, image map for the rescue teams.
On-site rescue map

On-site grouping rescue team
On-site grouping rescue team provides grouping function, which can group commanders, experts, rescue members, medical staff according to reality. This can also be used to group rescue equipment like lighting, medical, roof bracing and communication equipment like radio and BeiDou cellphone.

Rescue information collection
Rescue information collection supports quick collection of information of collapsed buildings, damaged roads, danger source.

On-site rescue information receiving and sending
On-site rescue information supports BeiDou short messages receiving and sending when the network doesn’t work.

On-site rescue information data management
Rescue information data management includes My data and Shared data. My data I the data labeled by the user, shared data are data labeled by the team members.

Thematic map receiving and displaying
Users can receive and display the thematic map made by operation center.
SuperMap iMobile GIS platform has full, abundant GIS functions. The On-site rescue information service terminal based on SuperMap iMobile GIS platform can fulfill the needs of effectiveness, mobility, accessibility of earthquake relief, guaranteeing the effectiveness and decrease disaster loss.