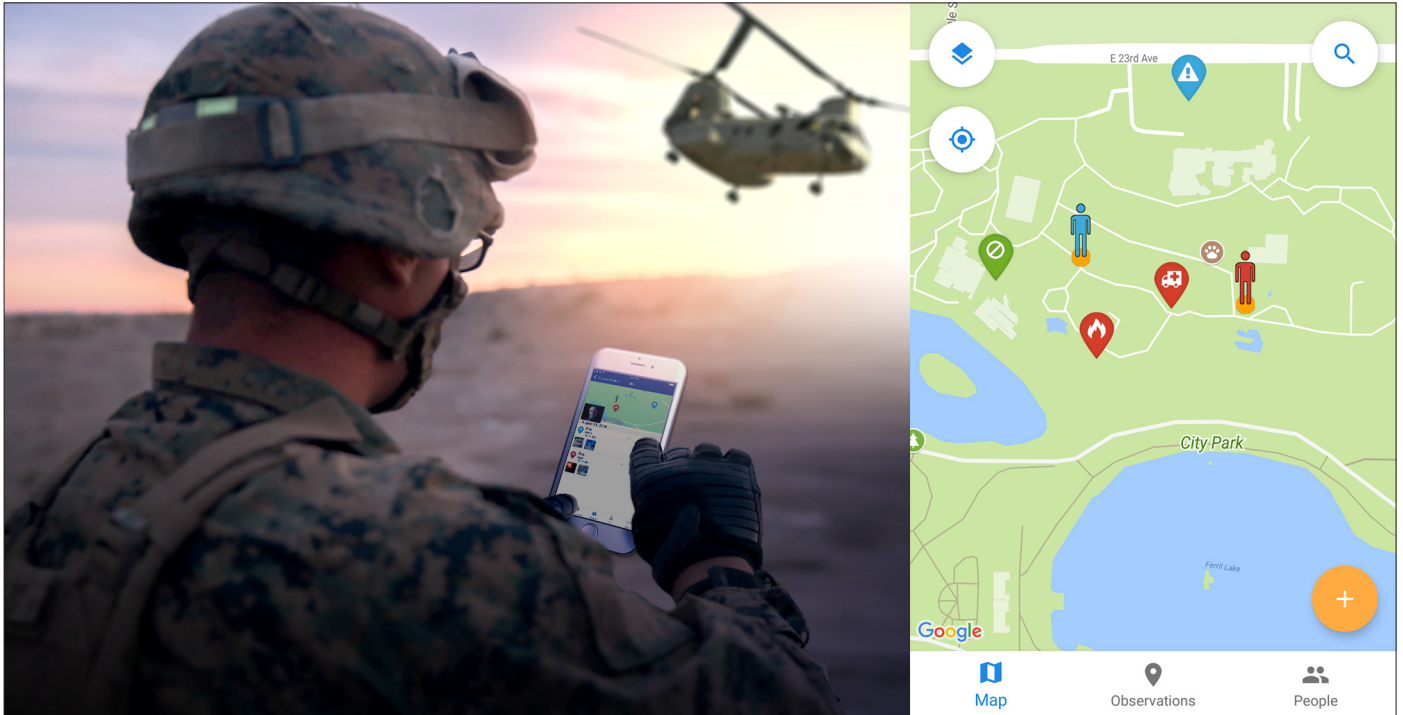# Mobile Awareness GEOINT Environment (MAGE)

MAGE is an open-source mobile app for team-based operations. It provides a display of current team member locations and allows the capture of geotagged observations, which provide a common, real-time picture of field activity. MAGE users can enrich their observations with photos, audio, or video, and instantly share that information with team members. Easy to use and highly secure, the MAGE client can be installed on most mobile devices from commercial app stores. It can collect observation data in low-bandwidth or disconnected environments and will sync collected data when a connection is available. MAGE is ideal for search and rescue operations, disaster response missions, and surveillance teams. It is a simple, yet powerful tool that has been used for a variety of missions.

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MAGE Capabilities

- Geotags field observations

- Stores geospatial data layers, including map tiles and vector data

- Operates in disconnected, degraded, intermittent, or limited-bandwidth environments

- Easy to customize with text, dropdowns, icons, check boxes, and number and date fields

- Supports popular geospatial formats, including GeoPackage, XYZ, TMS, CSV, GeoJSON, KML, and ESRI shapefiles

Benefits

- Field-tested and user-friendly; no training required

- Secure: Built-in access and authorization controls

- Requires no special equipment: MAGE runs on Android and iOS devices, as well as all mobile and desktop browsers

- Easily installed: Downloads from multiple commercial app stores

- Cost-effective: MAGE comes with no software licensing fees for federal government users

- Customizable: App and server can be tailored to team requirements

Simplifies Team Data Gathering and Sharing

MAGE displays team member locations and captures geotagged field observations for a real-time picture of field activity. The app allows users to instantly share notes, photos, videos, and voice recordings with no training. MAGE meets multiple mission needs with customization by team, map layers, symbology, and observation forms.

Operates In Low-Bandwidth or Disconnected Environments

MAGE stores maps and information, including vector data, directly on mobile devices for use in disconnected environments. It enables field observations and locations to be uploaded anytime a connection is established. MAGE supports a wide variety of file types and allows data to be easily exported for further analysis or archiving.

Field-Tested and Secure

- **Disaster Response and Recovery**
  MAGE simplified the identification of sensitive information such as the locations and conditions of survivors, damaged utilities, flooded areas, blocked transportation routes, and critical infrastructure.

- **Survey Results and Studies**
  MAGE currently supports monthly reports of crop production, area, and yield estimates for 17 commodities in more than 150 countries.

Full Lifecycle Services

- Customizable, secure server configuration and administration, including for sensitive missions

- Hosting options available

- Cloud-based or on-premise MAGE server hosting with customized mission and event configuration

- High-availability configuration and deployment for critical missions

- Organization-specific client application with custom branding

- Software customization and enhancements for specific mission requirements

- Deployment on secure communications networks and hardware

- 24/7 support option

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Worldwide Headquarters
1100 N. Glebe Road, Arlington, VA 22201
703-841-7800

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