Mobile Solution for Assessment & Reporting (MSAR) Application

Background and Status

The Federal Highway Administration (FHWA) required an electronic, secure, and scalable mobile solution to replace the existing paper assessment and inspection reporting processes that support the Emergency Relief (ER) and Emergency Relief for Federally-owned Roads (ERFO) Programs. The MSAR software was developed by FHWA to provide a range of stakeholders, e.g., State Departments of Transportation, Federal Land Management Agencies, tribal governments, and FHWA employees, with an application that can be loaded on cell phones and tablets to make disaster data collection faster, easier and more efficient. MSAR was successfully piloted in 2016 and received authority to operate in November 2016. Currently, MSAR is being utilized by FHWA and partners in multiple states to rapidly deploy and perform disaster assessment, damage inspection, and reporting to support the ER/ ERFO programs.

Benefits

- Allows field personnel to rapidly deploy and perform Damage Assessments, Detail Damage Inspection Reports, and Damage Survey Reports, anytime, anywhere to assist Federal Lands Management Agencies and States in the event of a disaster

- Utilizes off the shelf, widely available mobile devices and operating systems

- Enables field personnel to collect data, photos, voice, video, and geolocation information in real-time at the scene of a disaster or incident that has negatively impacted transportation resources

- Allows communication and information sharing in near real-time with the command centers across multiple agencies

- Provides management, program officials, and field staff information in near real-time to support prompt decision making and accelerate disaster declaration and funding

- Provides a consolidated data source for information at the disaster, program, partner, and unit levels

- Facilitates collaboration, standardization, and oversight of activities to ensure compliance with regulations

Solution

The MSAR software includes:
- Mobile app designed and supported for:
    - IOS devices (iPhones and iPads) running IOS 6.0 or late
    - Android smartphones and tablets running OS 4.2 or later
    - Windows 8.1 Surface Pro 3 tablets
- Cloud-based Web Portal application provides integrated User Management, Workflow, Approvals, Reports, and Dashboards
- Secure access and data for a variety of users including DOT, Federal, State, Local agency, and Tribal users

For More Information

Use of this application requires authorization, please contact Sergio Mayorga at 202-366-9491 and/or Sergio.Mayorga@dot.gov to request access.