CASE STUDY

Mobile Devices for Modernizing Damage Assessments

The Challenge

— When disaster strikes, people want to get disaster relief funds quickly to pay for repairs to property. Historically, Federal Emergency Management Agency (FEMA) has used paper forms to assess damages and communicate disaster declarations. This process was inconvenient, often error-prone, and unreliable.
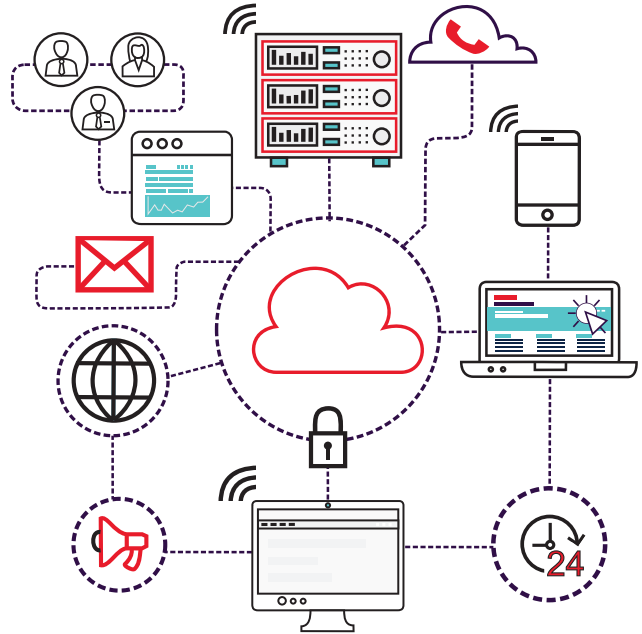
The Solution

— Ardent iteratively and incrementally advanced the Preliminary Damage Assessment (PDA) process from paper forms to a mobile application and suite of geospatial tools and dashboards to enhance and better inform decision-makers. In collaboration with FEMA and Esri, Ardent provides the PDA template to State & Local, Tribal & Territorial authorities in order to standardize data elements collected and provide a consistent method for conducting damage assessments across Federal and Local entities. Ardent created a standardized template to ensure consistency in both federal and local PDA damage assessment data collection.

The Outcome

—   Damage assessments can be implemented more quickly, accurately and more completely, resulting in faster disaster benefits to the recipients. The survey form can be easily customized to include new data fields. Further, since the damage data is in an authoritative database, this field data can be directly shared with other systems such as the FEMA Grants Outcomes (FEMA GO) system.   Even in austere environments, which is typical in a disaster area, data can be collected in the field and uploaded later when connectivity is available.

Tools used to achieve these outcomes:

- AWS
- Esri
- Arc GIS Enterprise
- Survey123
- .Net

About Ardent

—   A Digital Transformation, Location Intelligence, and Data Analytics firm, Ardent Management Consulting (ArdentMC) is a certified HUBZone Small Business and CMMI-Dev Level 3, v2.0 and ISO 9001:2015 company with offices in Arlington, VA and Tulsa, OK. ArdentMC management systems (ISMS/ITSMS) are certified to ISO 27001:2013: ISO 20000-1:2018 standards by SRI Quality System Registrar. Ardent brings a significant history of innovative and "at the speed of the mission" proven best practices in geospatial analytics, cloud services and modernization, and software development. Ardent is the "All In" trusted provider to many government agencies, DHS mission components, state and local projects, and the commercial and non-profit sectors.

For more information, visit www.ardentmc.com.