Mission Critical Support in Natural Disasters
Transforming emergency response workflows with ArcGIS
Company Overview
We are the 18,000 faces of Tetra Tech. We are dedicated problem-solvers and innovators from 60 disciplines collaborating on interesting projects worldwide.
With more than 400 offices worldwide, we can quickly respond to our client’s needs.
Our GIS/Data Team

• Based out of Kansas City, MO
• GIS Analysts, Developers, and Data Scientists
• Support various clients and projects worldwide
• Focused on U.S. Environmental Protection Agency
  ▪ Superfund Technical Assessment and Response Team (START)
START Program

• Emergency response and preparedness
• Oil and hazardous substance removal actions
• Site assessments
• Counterterrorism support
• Training
Emergency Response

- Help EPA mitigate any imminent or substantial threat to the environment or public health/welfare
- Natural disasters and man-made incidents
- START performs monitoring and oversight
  - Collection of samples and monitoring results
  - Facility assessments
  - Orphaned container recon and recovery
  - Sunken vessel recon and recovery
  - General documentation
ArcGIS is Essential to our Operations

- Mapping & Visualization
- Data Management
- Field Mobility
- Monitoring
- Analytics
- Design & Planning
- Decision Support
- Constituent Engagement
- Sharing and Collaboration
How did we get here?

Transforming our emergency response workflows
Our Transformation Begins

Greensburg Tornado 2007
Hurricane Irma – Full Implementation

- Workforce
- Collector
- Survey123
- ArcGIS Pro
Hurricane Irma – Full Implementation Cont.

- Web AppBuilder
- Operations Dashboard
- Story Maps
- Living Atlas
Before

Previous Data Collection Tools

- Log Books
- Field Sheets
- PDAs
- Digital Pens

Supporting Hardware

- Digital Camera
- GPS

Database

Map
After
The Results

• Improves data quality
• Reduces duplication of effort
• Redirects mission-critical resources away from low-value activities
• Promotes data-driven decision making
• Creates a heightened operational awareness
Our Continued Transformation

- ArcGIS Enterprise
- GeoAI: Machine Learning
- Real-time
- Automation
- ArcGIS Apps

Thank you for attending!

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