ArcGIS for Emergency Management-
Configuring the Solutions

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Agenda

• Introduction

• Solution Offering

• What’s Next

• Your Feedback
ArcGIS as a Platform

Simple, Open, and Configurable

Knowledge Workers

Executive Access

Public Engagement

Work Anywhere

Enterprise Integration

Professional GIS

Web GIS

Making Mapping and GIS Available Across Your Organization

Transforming the Role of GIS
EXTENDING THE PLATFORM WITH SOLUTIONS

Ready to use workflows and apps that make implementation easier and sustainable.

Web Centric

Desktop

Web

Device

Web GIS

Basemaps

Web Apps

Models and Charts

Analytical Workflows

Mobile Apps

ArcGIS for Emergency Management
ALIGNING OUR DEVELOPMENT TO SUPPORT EMERGENCY MANAGEMENT

Providing solutions that address the needs of the four phases

**Mitigation**
- Hazard Analysis
- Vulnerability Assessment
- Infrastructure Work
- Public Education

**Preparedness**
- Emergency Response
- Planning
- Training and Exercises
- Partnership Building

**Recovery**
- Economic Recovery
- Debris Management
- Housing
- Health and Social Services

**Response**
- Life Safety
- Incident Stabilization
- Evacuations and Shelters
- Mass Care
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- **What's New/Updated**
How do you get started?

1. Organize your geographic content
2. Enable access via ArcGIS Online (ArcGIS Server or Hosted Services)
3. Create Focused Maps
4. Deploy Focused Apps
Who are your stakeholders?

How can we enable them to use GIS to do their job?
Emergency Management Maps
A foundation for Emergency Management Solutions

- Enables GIS support staff to:
  - Respond to an incident quickly with map products
  - Simplify the implementation of data and maps
  - Support decision makers with dynamic and actionable information
  - Share incident information via web based and hard copy products
  - Work online and offline
Emergency Management Maps
A foundation for Emergency Management Solutions

... sync workflows targeted for Pro 2.1
Emergency Management Maps
Solution components

Maps
- Layers
- Symbology

Layouts
- Standardized products
- Consistent format

Sharing Workflows
web based, digital, and hardcopy information products
Getting started with EM Maps
esriurl.com/EMgtMaps

1. Download the template

2. Populate with your data
   - Operational data
   - Reference data
   - Esri Data and Maps, Living Atlas, other live feeds

3. Share layers and maps via …
   - ArcGIS Online organization
   - Printed maps
   - Digital map books
   - ArcGIS Open Data site

… sync workflows targeted for Pro 2.1
Situational Awareness Solutions
Suite of applications to support preparation and response to emergency situations

• Allows Emergency Managers to:
  - Identify threats or current hazards
  - Define the impact to people and places
  - Plan, execute and monitor response activities
  - Communicate essential information to public

• Allows GIS support staff to:
  - Leverage configurable applications to rapidly deploy decision support tools
  - Simplify the implementation of data and maps
  - Support decision makers with dynamic and actionable information
  - Remove information ambiguity using a structured framework for Emergency Management
  - Promote effective communication between agencies through intuitive maps
Situation Awareness
Suite of applications to support the Incident Command System

Common Operational Picture

- **Incident Command**
  - Incident Briefing
  - Incident Status Dashboard

- **Planning Section**
  - Incident Analysis

- **Operations Section**
  - Operational Response

- **Logistics Section**
  - Logistics Support

- **Administration**
  - Public Info Map
  - Impact Summary Map
Getting Started with Situational Awareness
esriurl.com/SitAware

1. Organize your geographic content
2. Configure focused maps
3. Deploy Applications
4. Deliver Mission Focused Apps
1. Organize your Geographic Content

- Identify data sources
  - Incident Data
  - Authoritative Content
    - Local Jurisdictions
  - Reference Data
    - ArcGIS Online
    - HIFLD Open Data
  - Feeds (weather, traffic, etc)

- Determine ArcGIS deployment pattern
2. Configure focused maps

Consider who is consuming the map.

- Create information products for specific purposes
- Design purposeful pop ups
  - Visibility
  - Editable
  - Defines user experience in apps
- Layer symbols and visibility range
Information Products
Organize your Geographic Content
....that powers focused maps

1. Pick a deployment pattern
2. Publish your own services
3. Utilize the service catalog
4. Load/Append Data
5. Design and create information products
6. Share collateral with Groups
Deploy Applications

Address the needs of various stakeholders
Configuring Apps
4. Deliver Mission Focused Applications

- Share maps and apps with groups
- Share group content in a Gallery App
- Gallery App becomes the landing page
  - Demonstration
Situational Awareness Solutions
A technology view
Repeatable Process

Web Apps
- Situational Awareness Viewer
- Operations Response
- Incident Status Dashboard
- Incident Briefing Journal
- ...

Web Maps
- Situational Awareness
- Operations Response
- Incident Status
- ...

Service Catalog
- Shelters
- Response Teams
- Incident Area
- Weather Feed
- Hospitals
- Emergency Facilities
- Traffic Feed
- Road Closures
- Commodities
Solution Deployment Tool

• ArcGIS Pro tasks and tools
  - Discover, deploy and configure solutions in an ArcGIS Organization

• Help users:
  - Discover solution offerings available
  - Deploy the services, maps, and configurable apps to their organization
  - Configure the solution to meet specific needs in their organization
    - Add fields
    - Modify field domains and aliases
  - Load their data (if required)
GIS professionals can quickly discover and deploy ArcGIS solutions in their organization – projects value and innovation

Standardize configuration approaches - helps organizations stay current and reduce cost of ownership

Supports implementation of more comprehensive offerings – driving value of ArcGIS deeper in organization

Delivered *with* ArcGIS and first step towards future SaaS offerings
Demo
2017 Priorities

• Modernize solutions
  • ArcGISPro, WebApp Builder, 4.x API, Field Workflows

• UC Release
  • Environmental Screening, Transportation 511 updates, Field Workflows, Printing Dijit

• Post UC
  • Executive Dashboard, Environment, Agriculture, Field Workflows, Hub
Join the Community

It’s not just about the technology
Closing

• Deliver solutions that enables success
  • Easier to deploy and sustain

• Evolve and grow the collection of apps

• Develop a community of users

• Provide a platform for partners to deploy their solutions
UC Events

• ArcGIS for Emergency Management Sessions
  • Two tech workshops
  • Two demo theatre sessions

• Solution Island
  • Focused conversations / support
Please Take Our Survey on the Esri Events App!

Download the Esri Events app and find your event

Select the session you attended

Scroll down to find the survey

Complete Answers and Select “Submit”
Thank you

Be innovative, aware, and know you are not alone

https://www.meetup.com/ArcGIS-for-Emergency-Management
@ArcGISforEM
http://esri.github.com