



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



EXTENDING THE PLATFORM WITH SOLUTIONS

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





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

Recovery

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



Preparedness

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

Response

- Life Safety
- Incident Stabilization
- Evacuations and Shelters
- Mass Care

Our Mission > To help you...



Emergency Management – June 2017

Mitigation Hazard Assessment and Analysis Hazard Vulnerability Analysis Mitigation Dashboard Mitigation Plan Status

Resilience Community Resilience Resilience Outreach Resilience Dashboard Flood Planning Community Events CAMEO Tools Emergency Assistance Evacuation Zones My Hazard Information Floodplain Inquiry Community Parcels Community Addresses

Response **Emergency Management Maps Impact Summary Map Public Information Map Road Closures Incident Briefing Citizen Reports Health & Safety Reports Debris Reporting Common Operational Picture Situation Awareness Viewer Operations Response Logistics Planning Incident Status Dashboard** Citizen Service Request **Photo Survey Shelter Locator**

Photo Survey Health and Safety Reports Debris Reporting Community Parcels Community Addresses Crowdsource Manager Crowdsource Reporter Map and App Gallery

Emergency Management – June 2017

Preparedness Mitigation Resilience Response Recovery **Community Resilience** Flood Planning Emergency Management Maps **Damage Assessment ArcGIS Online for** Hazard Assessment and **Emergency Management** Analysis Resilience Outreach Community Events **Impact Summary Map Photo Survey Community Parcels** Hazard Vulnerability Resilience Dashboard **CAMEO Tools Public Information Map Health and Safety Reports Analysis Emergency Assistance Road Closures Debris Reporting Community Addresses** Mitigation Dashboard **Evacuation Zones Incident Briefing** Mitigation Plan Status My Hazard **Citizen Reports Crowdsource Manager** Information **Health & Safety Reports Crowdsource Reporter** Floodplain Inquiry **Debris Reporting Community Parcels Common Operational Picture** Map and App Gallery **Community Addresses** Situation Awareness Viewer Operations Response **Logistics Planning Incident Status Dashboard** Citizen Service Request **Photo Survey Shelter Locator**

Entire Organization

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





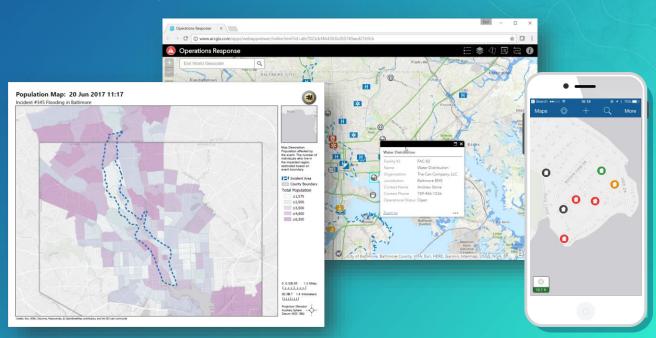
4 Deploy Focused Apps



Emergency Management Maps

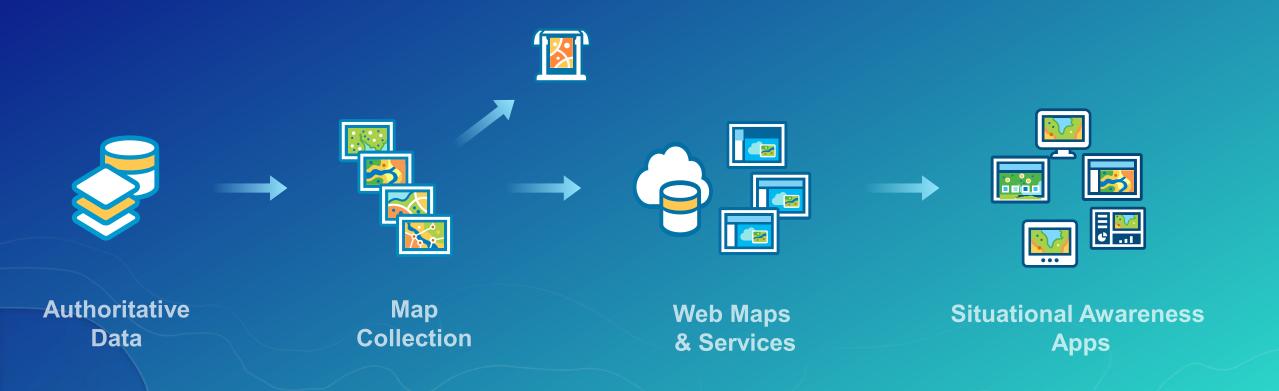
A foundation for Emergency Management Solutions

- 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



Emergency Management Maps Solution components

Maps

Layers

Symbology

Layouts

Standardized products

Consistent format

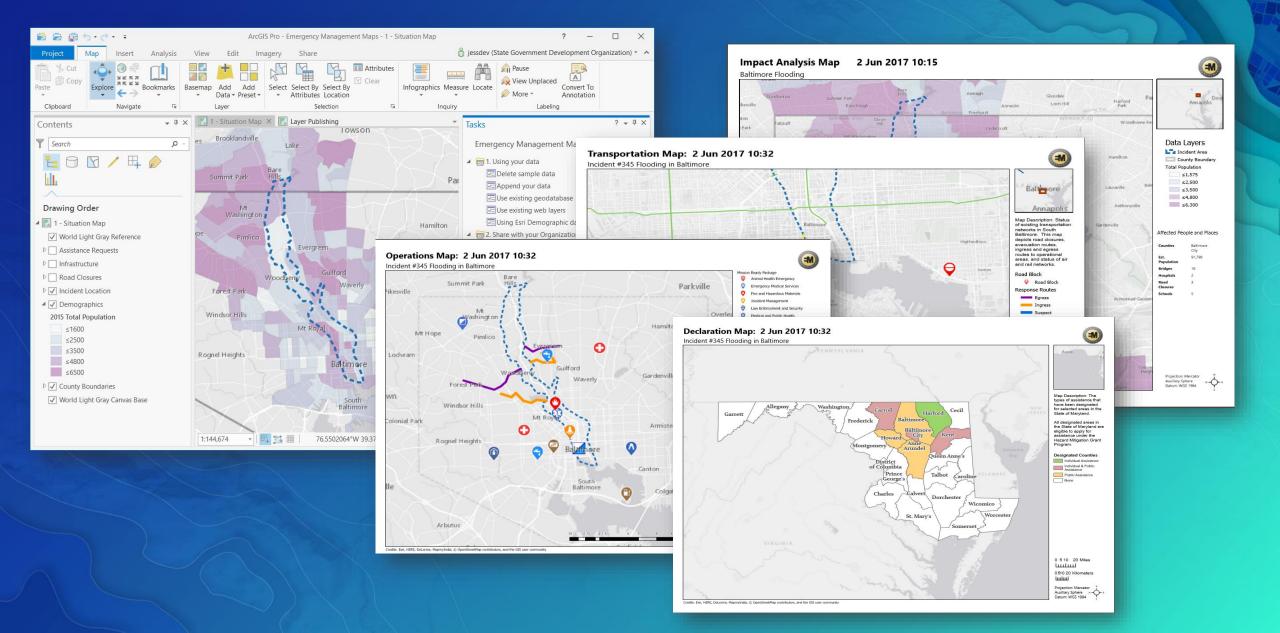
Sharing Workflows

web based, digital, and hardcopy information products

Emergency Management Maps

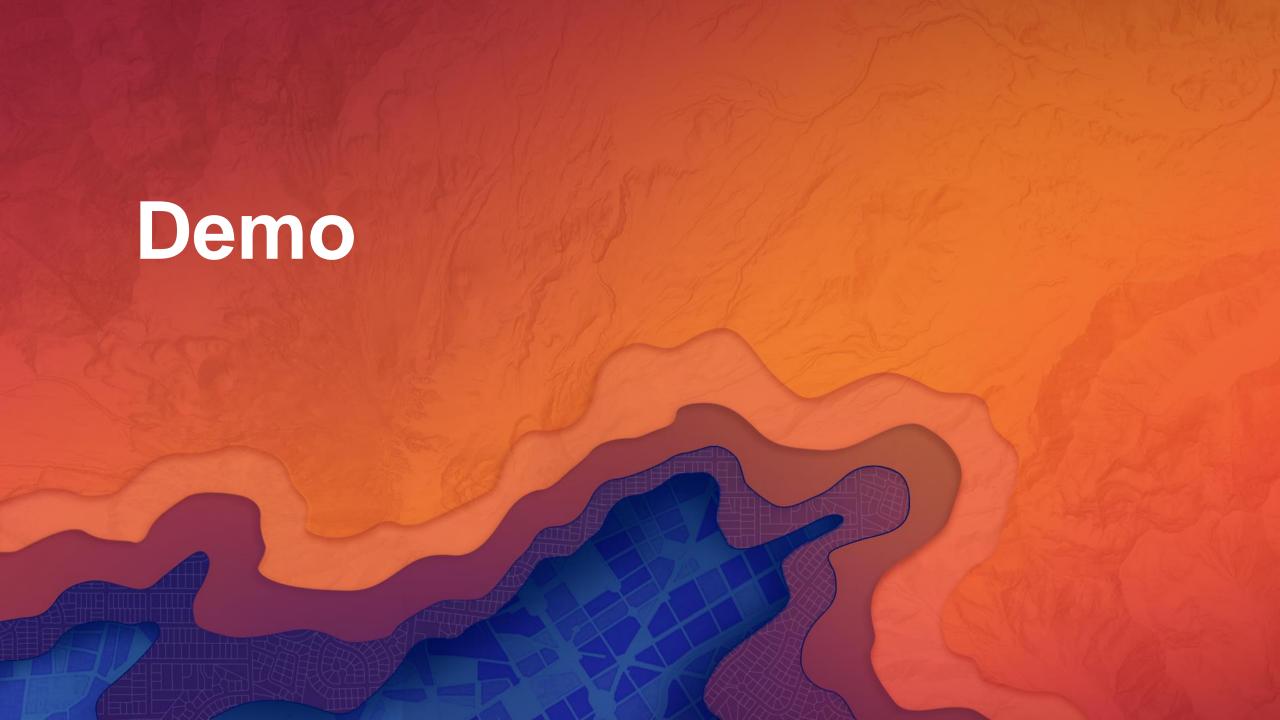
A foundation for EM solutions

Texas EGRT Eagle Technologies



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



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

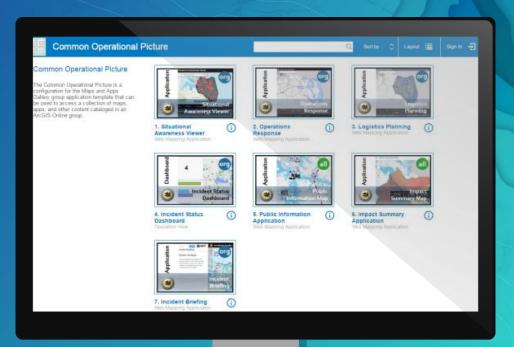
Logistics Support

Administration

Public Info Map Impact Summary Map

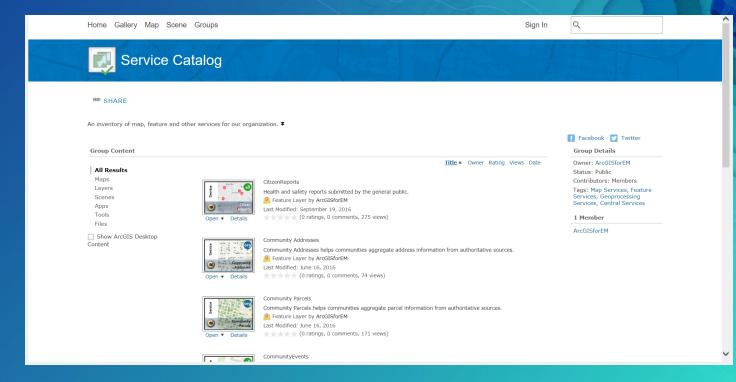
Getting Started with Situational Awareness esriurl.com/SitAware

- 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)

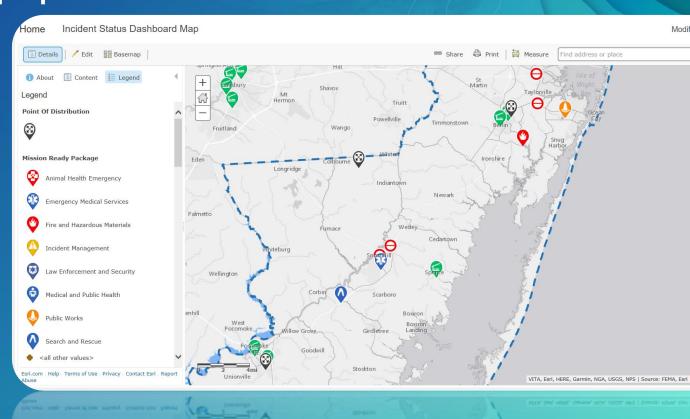


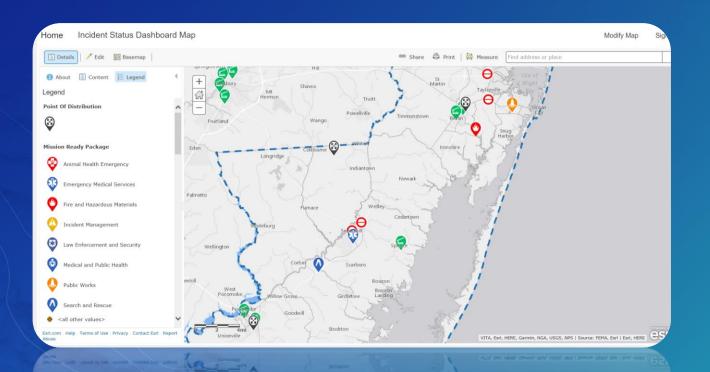
Determine ArcGIS deployment pattern

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

Common Operational Picture

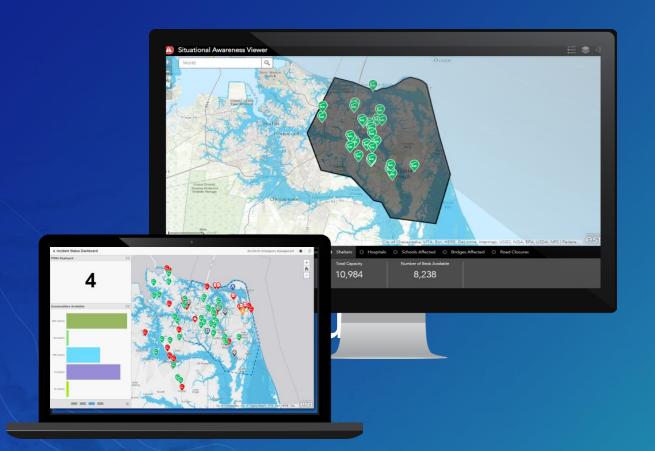
Incident Briefing

Situational Awareness Operational Planning

Logistics Planning

Impact Summary

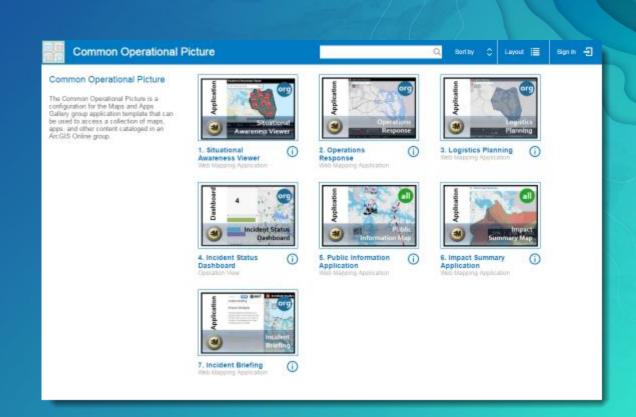
Incident Status



Configuring Apps

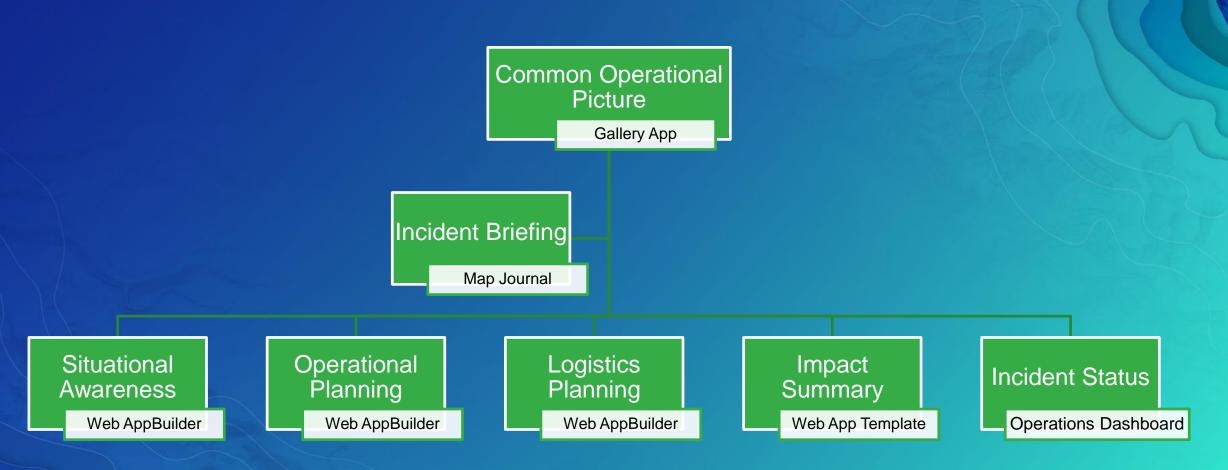
4. Deliver Mission Focused Applications

- Share maps and apps with groups
- Share group content in a Gallery App
- Gallery App becomes the landing page
 - Demonstration

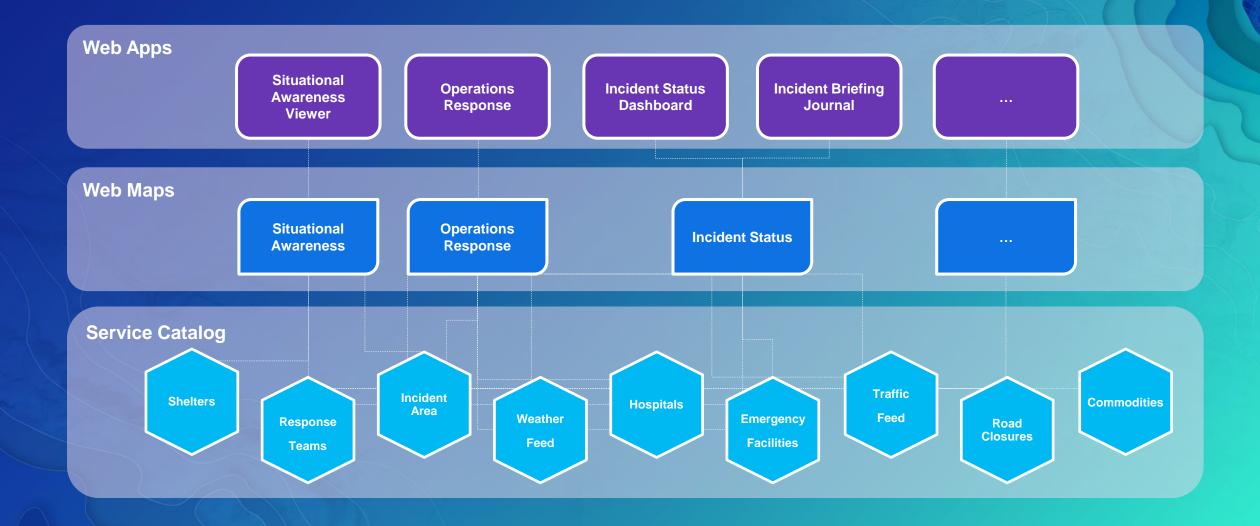


Situational Awareness Solutions

A technology view

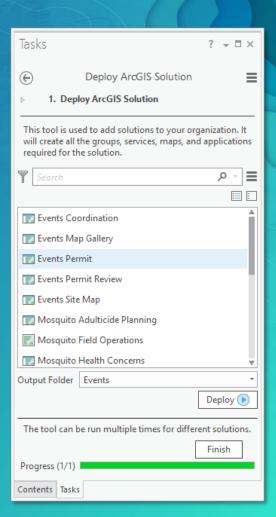


Repeatable Process



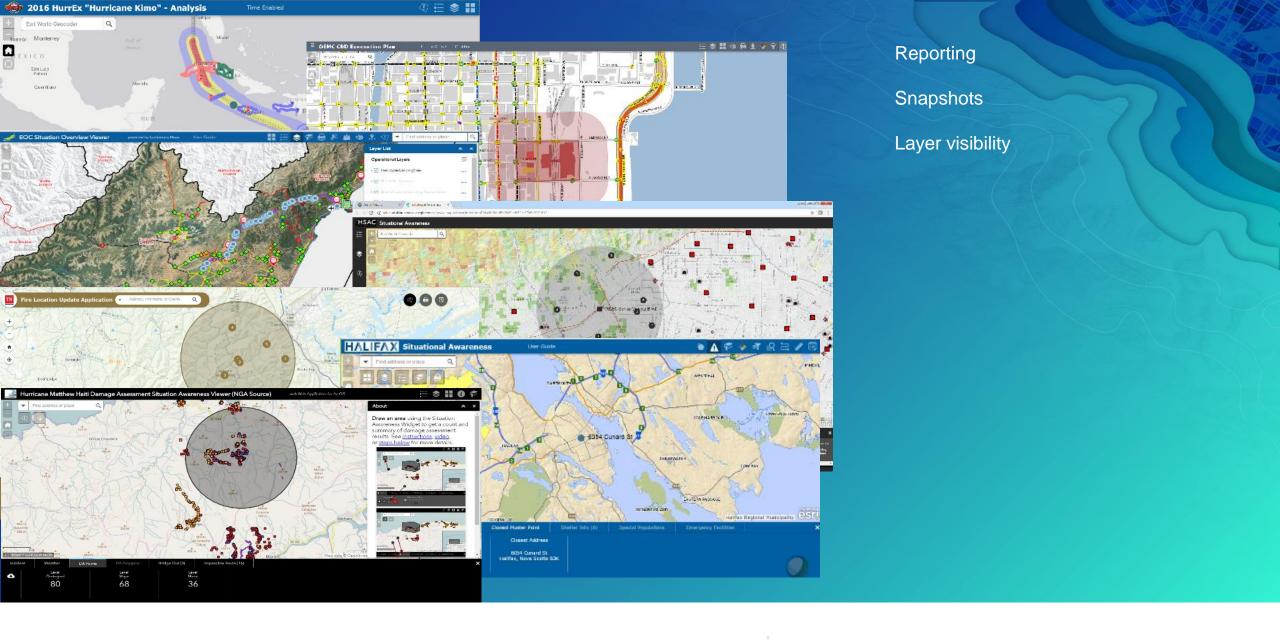
Solution Deployment Tool

- 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)

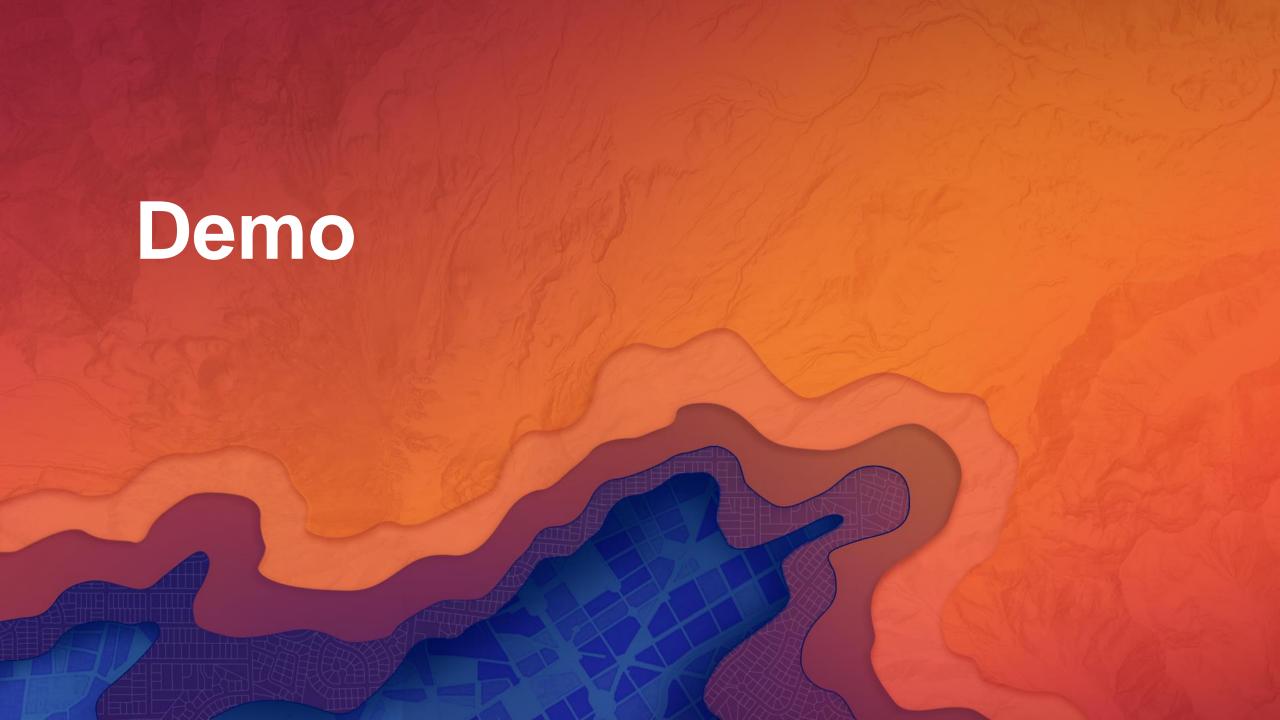


Impact (Value)

- 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



Situational Awareness

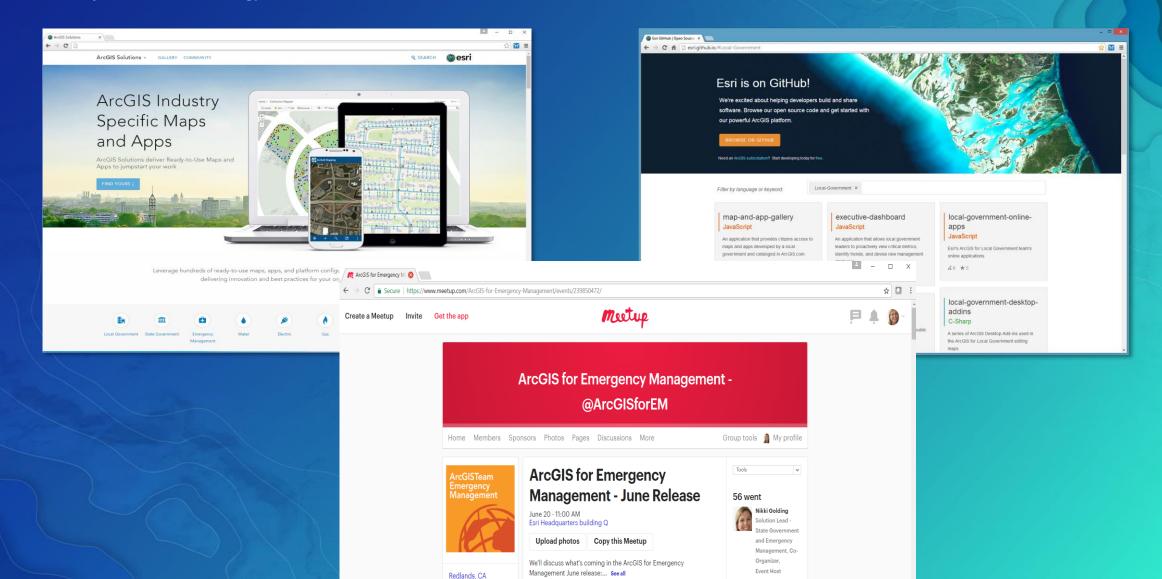


2017 Priorities

- 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!

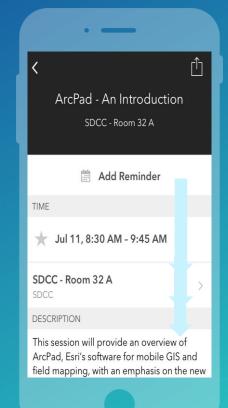
Download the Esri Events app and find your event



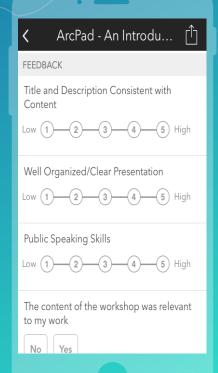
Select the session you attended



Scroll down to find the survey



Complete Answers and Select "Submit"



Thank you

Be innovative, aware, and know you are not alone

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

