



Leveraging ArcGIS Web Apps

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FEMA Priority Operations Support Tool (POST) Dashboard

Municipality Earthquake Exposure POST Exposure Results

Ponce, PR
Exposed Population: 108964
Exposed Housing Units: 49852

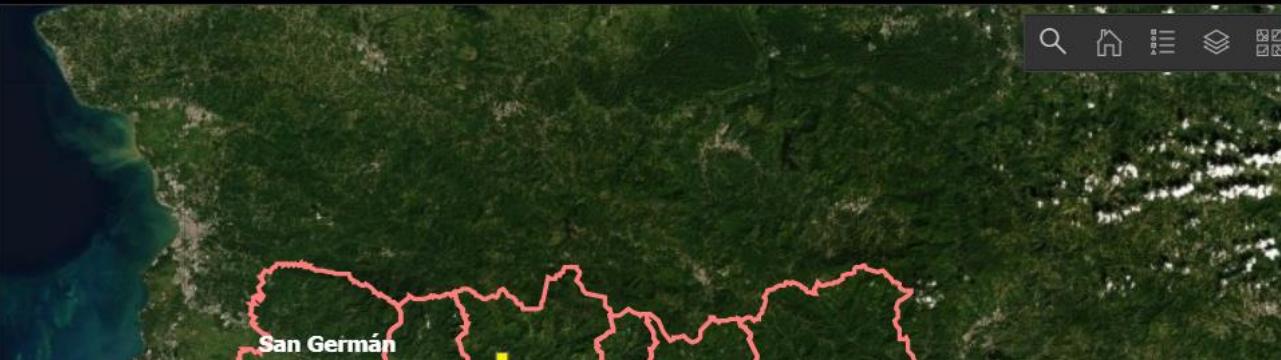
Yauco, PR
Exposed Population: 26659
Exposed Housing Units: 11833

Sabana Grande, PR
Exposed Population: 13974
Exposed Housing Units: 6274

Guánica, PR
Exposed Population: 11598
Exposed Housing Units: 6057

PR_Boundary_POST_1122020

PR_EQ_USGS_Shakemap_V4_Jan07_2020 - Epicenter
6.4 Magnitude, Depth: 10.0 km



San Germán

Prioritizing Operations Support Tool (POST) Dashboard

Dashboard by FEMA

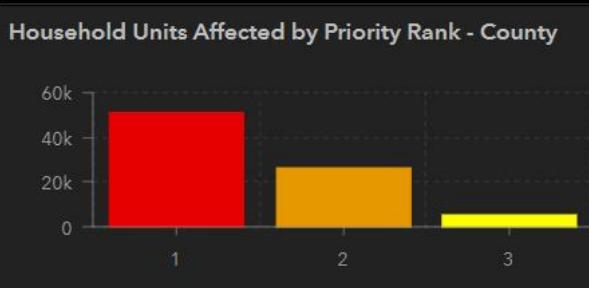
Created: Jan 8, 2020

FEMA's POST layer provides a prioritized list of locations for a given event based on social vulnerability, population, building

Created: Jan 8, 2020 Updated: Jan 15, 2020 View Count: 399

Earthstar Geographics

Household Units Affected by Priority Rank - County



Priority Rank	Household Units Affected
1	~55k
2	~25k
3	~5k

The POST (Prioritizing Operations Support Tool) was developed to address the need for a systematic method to prioritize and manage response operations during disasters. While the tool was initially developed to guide collection efforts of satellite imagery in preparation for and in response to disasters, the methodology behind it is robust enough that the tool can be utilized to support the full lifecycle of an event, including search and rescue operations. In order to standardize the

Population **181,838**

Housing Units **82,613**

Housing Units in Poverty **33,350**

Senior Population (Age 65+) **35,631**

House Units with Age under 18 **63,085**

Puerto Rico Earthquake

Puerto Rico Earthquake

Site Developed by FEMA

Welcome to the Puerto Rico Earthquake hub. We developed this site to help you find all of the apps, maps and data associated with this incident. FEMA and our federal partners use geospatial tools and methods to estimate and measure impacts, which allows all of us to make well informed and timely decisions.

Cover Image by the US Geological Survey.

See Data in Dashboards

Select a dashboard to visualize and understand information from FEMA and our partners.



Topics

- **Why Apps?**
- **Building and Configuring Apps**
- **Leveraging Web Apps at the National Audubon Society**



Why Apps?

Apps are what gives your data purpose.

Apps makes you more focused and productive.

Apps are how organizations make data-driven decisions.



Different Flavors of Apps

Desktop Apps

Installation on a
Desktop Workstation

ArcGIS Pro

Drone2Map

Maps for Office

Esri CityEngine

...

Mobile Apps

Installation on a
Smartphone

Survey123

Collector

Workforce

QuickCapture

...

Web Apps

No Installation –
Requires Web Browser

Configurable Templates

Web AppBuilder

Ops Dashboard

StoryMaps

...



Configurable Apps

Configure, assemble & build



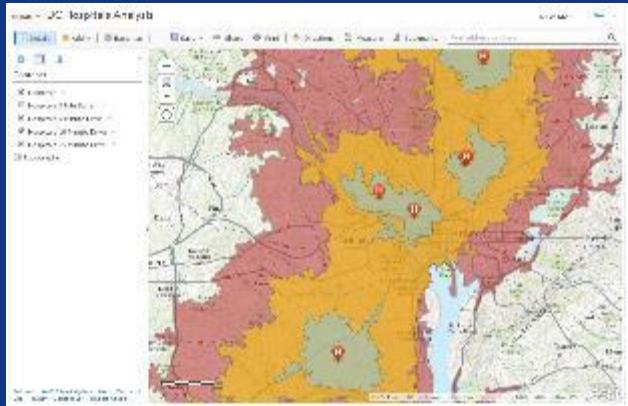
Configurable Apps
Web AppBuilder for ArcGIS
Operations Dashboard
ArcGIS StoryMaps

What are configure apps?

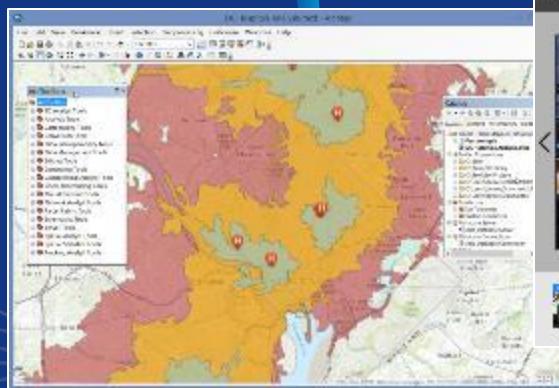
- Designed for you to *configure, assemble, build* – no programming required
- Fastest and easiest way to go from a map to a shareable app
- Hosted apps maintained by Esri in the cloud



Web maps are the building blocks of web apps

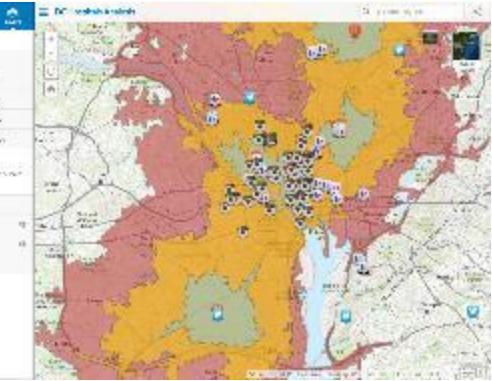


Map Viewer
(for authoring)



ArcGIS Desktop

Apps for field



Configurable apps



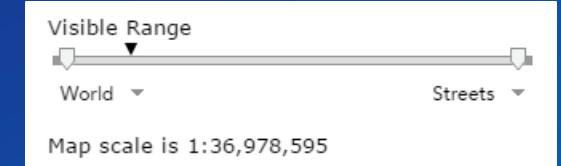
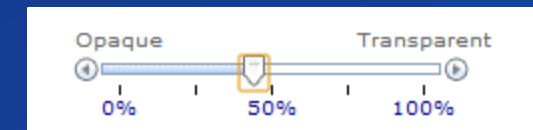
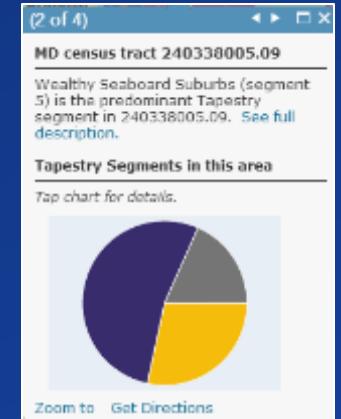
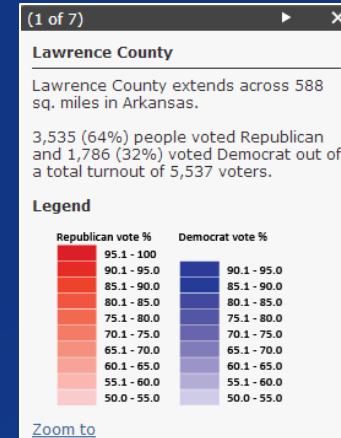
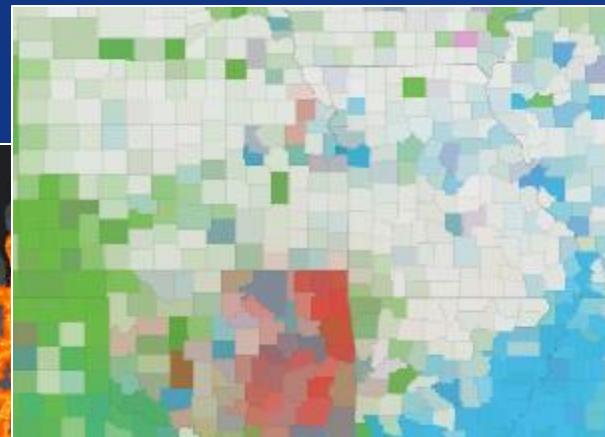
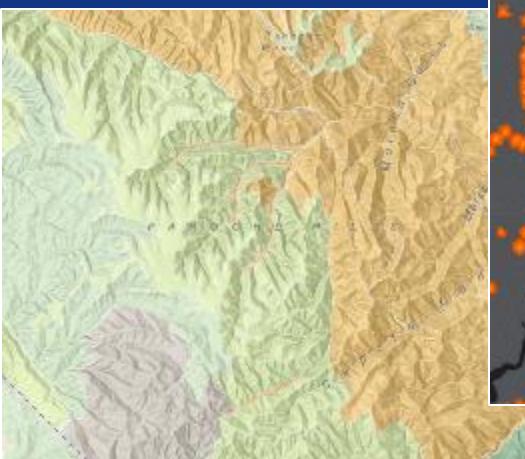
Story Maps



Devices

A great app starts with a great map

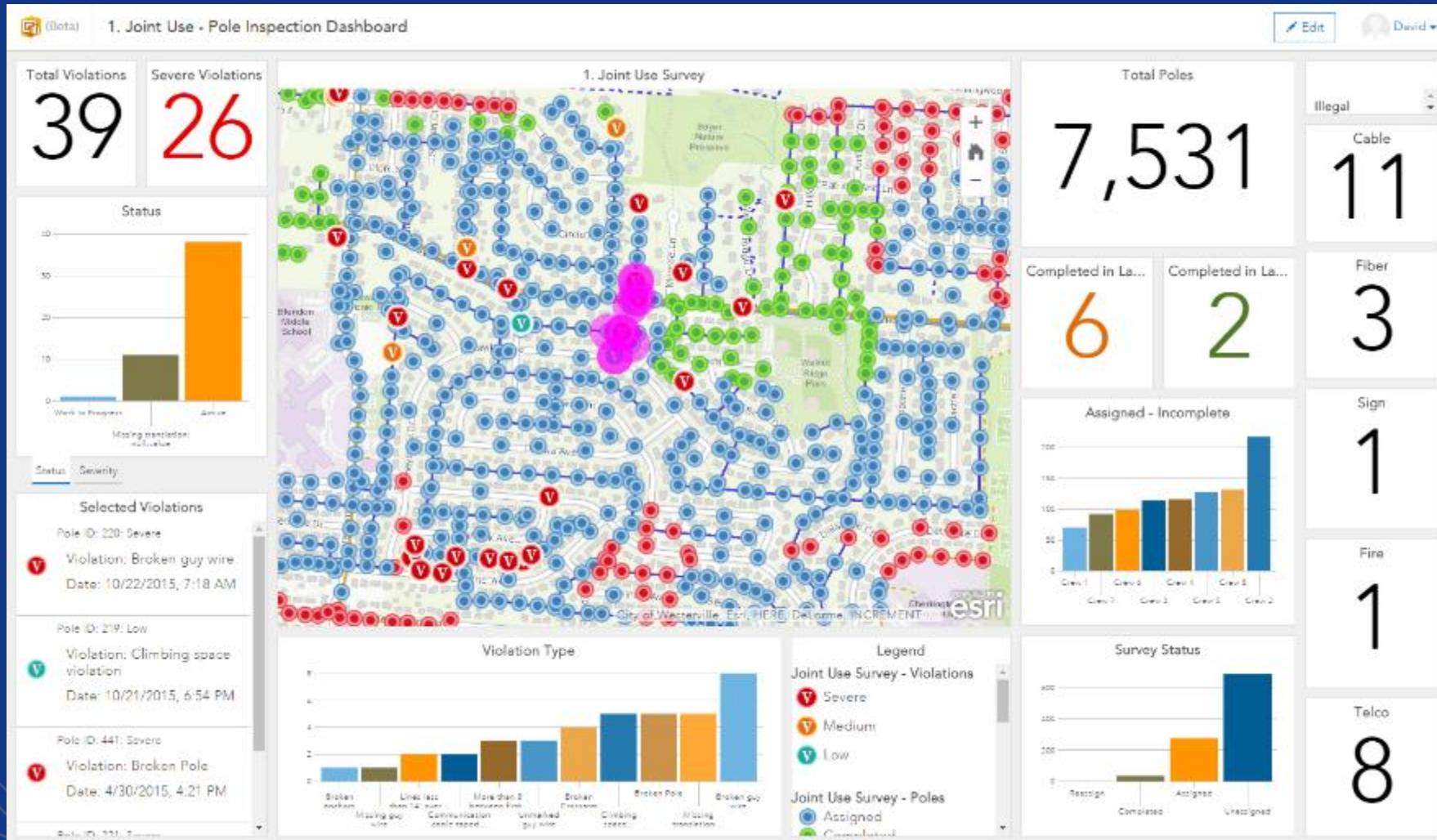
- Smart mapping
- Transparency, scale ranges, bookmarks
- Pop-ups
- Performance



Apps complete the user experience

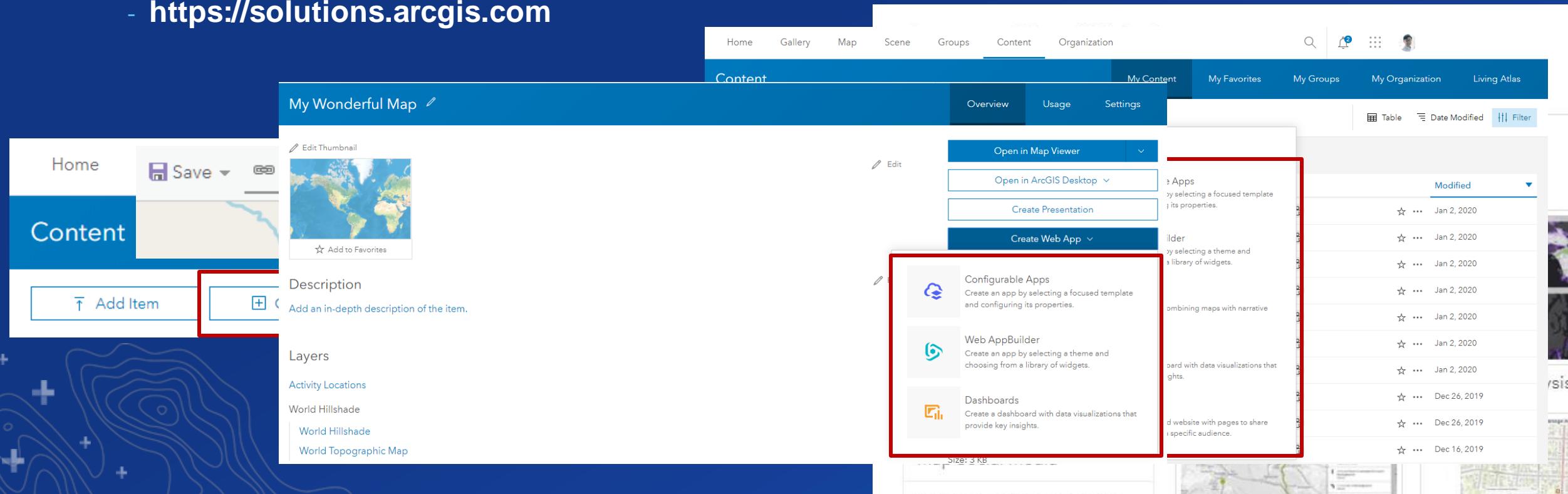


Apps complete the user experience



Where to find configurable apps and builders

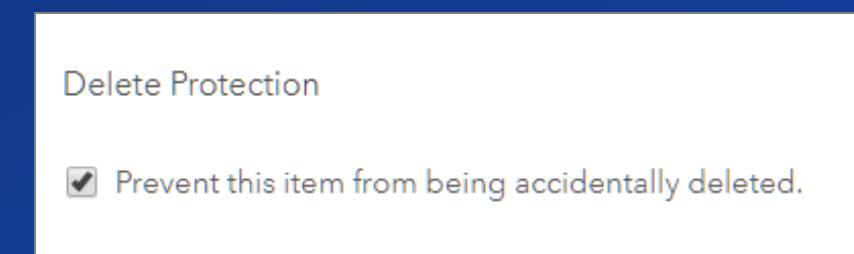
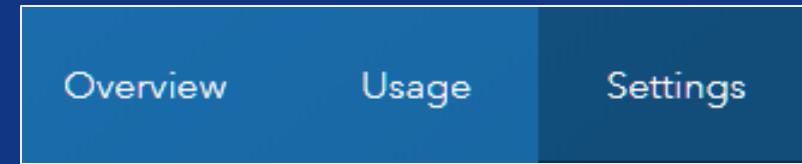
- **Create a New Web App gallery**
- **StoryMaps website**
- **Solutions**
 - <https://solutions.arcgis.com>



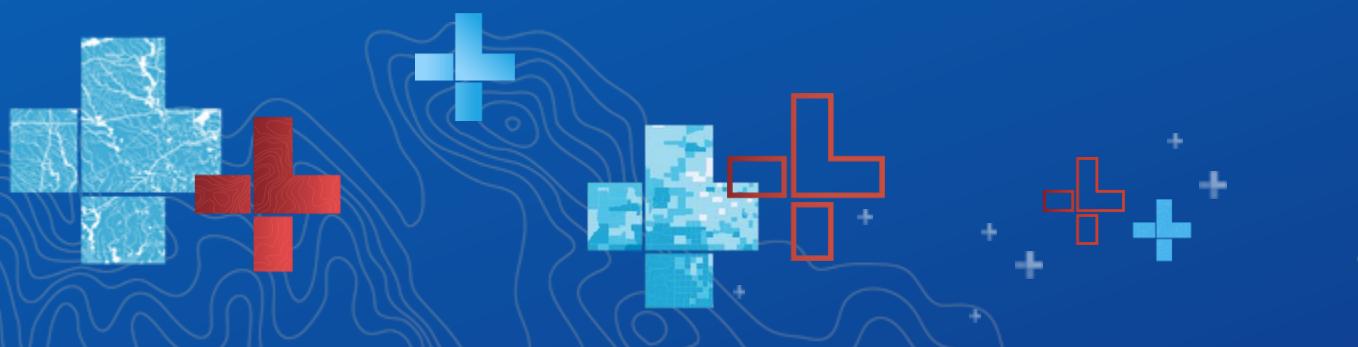
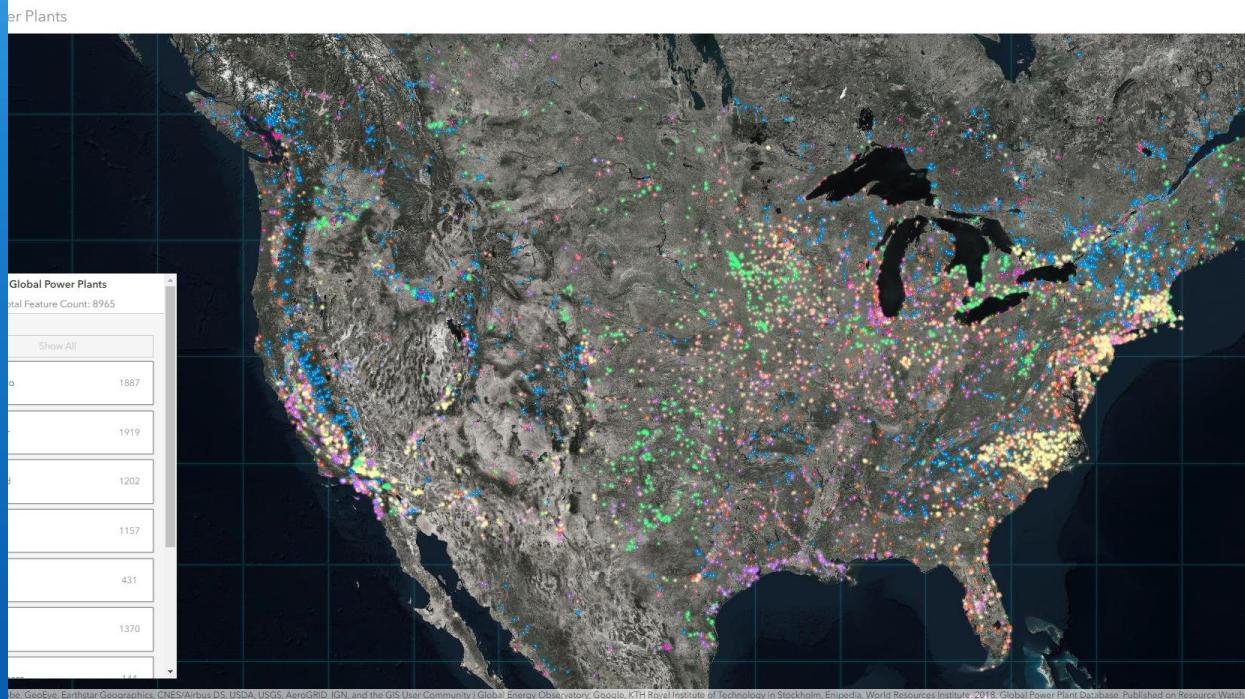
The screenshot shows the ArcGIS Content page for a map titled "My Wonderful Map". The "Content" tab is selected in the top navigation bar. The "My Content" tab is active in the sub-navigation bar. A dropdown menu is open under the "Edit" button, with the "Create Web App" option highlighted. This option is further expanded to show three sub-options: "Configurable Apps", "Web AppBuilder", and "Dashboards", each with a brief description and icon. A red box highlights this expanded "Create Web App" menu. The main content area shows a world map thumbnail, a "Save" button, and a "Description" section with a "Add Item" button. The bottom of the page shows a "Layers" section with "Activity Locations", "World Hillshade", and "World Topographic Map" listed.

Delete protection

- Ensures maps, apps and related items don't vanish
- Item Settings tab



Creating an App



Create apps with a variety of content

- The gallery of 42 configurable app templates allows you to build a simple, focused experience for a variety of geospatial content.
- Build apps with different types of content:
 - Web Maps (2D)
 - Web Scenes (3D)
 - Groups



What do you want to do?

- Build a story map
- Collect/edit data
- Compare maps/layers
- Display a Scene
- Explore/summarize data
- Interpret Imagery
- Make a gallery
- Map social media
- Provide local information
- Route/get directions
- Showcase a map

Create a New Web App

AppBuilder Operations Dashboard

What do you want to do?

Select a configurable app. [?](#)

Search

Show All

- Build a Story Map
- Collect/Edit Data
- Compare Maps/Layers
- Explore/Summarize Data
- Map Social Media
- Provide Local Information
- Route/Get Directions
- Showcase a Map

Basic Viewer

Compare Analysis

Crowdsouce Polling

Directions

Edit

Elevation Profile

Residential Damage Assessment

79 Deadliest Volcanos

Volcano Polling

Some apps and tools have map requirements

- Bookmarks
- Filter
- **Editable feature layer**
- Attributes
- Attachments
- Others...

Create a New Web App

Configurable Apps Web AppBuilder Operations Dashboard

What do you want to do?

Select a configurable app. [?](#)

Search

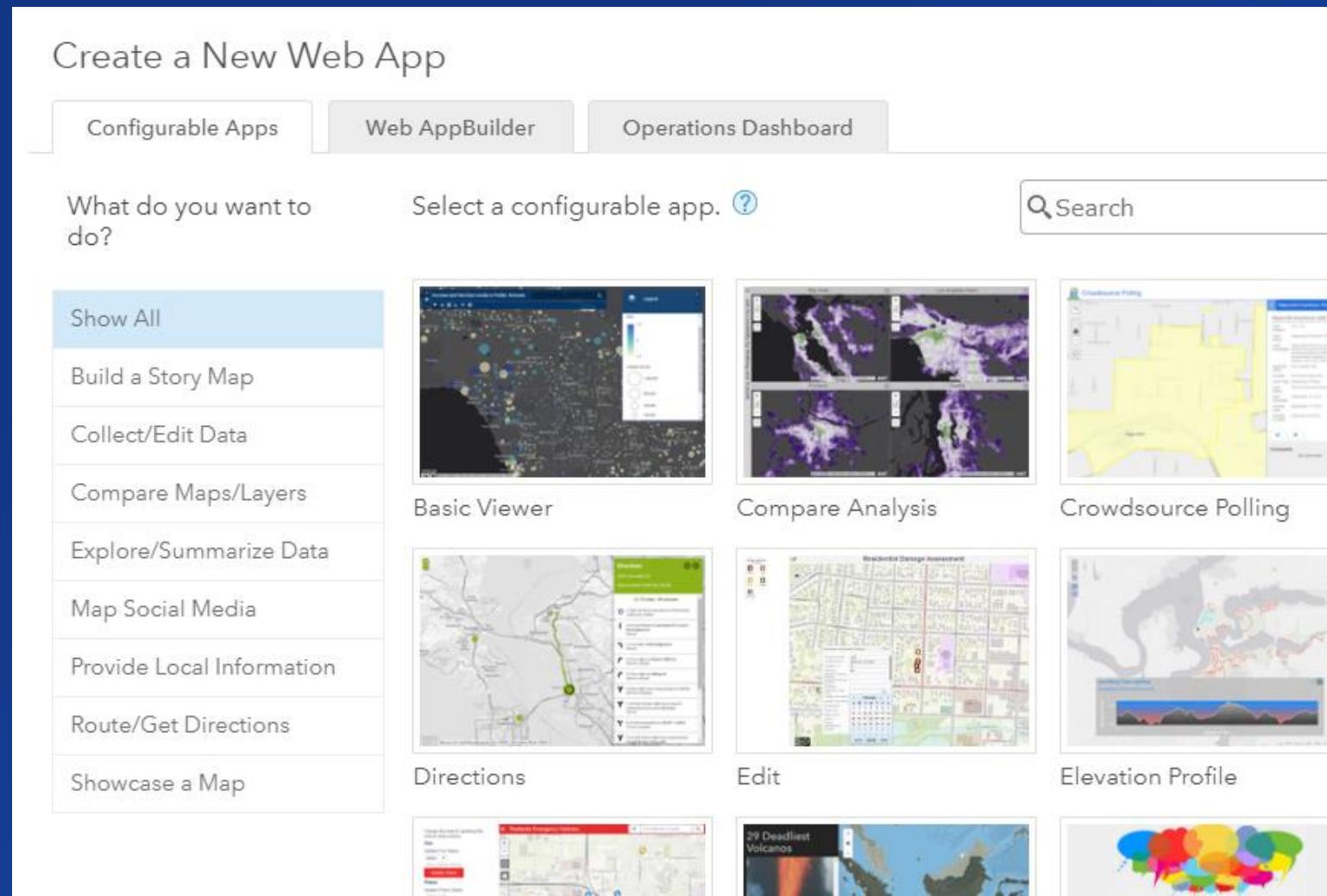
Show All

- Build a Story Map
- Collect/Edit Data
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- Route/Get Directions
- Showcase a Map

Basic Viewer Compare Analysis Crowdsource Polling

Directions Edit Elevation Profile

100 Deadliest Volcanos



City 3D



2D/3D/Group Apps

Web AppBuilder

Configure your custom app experience



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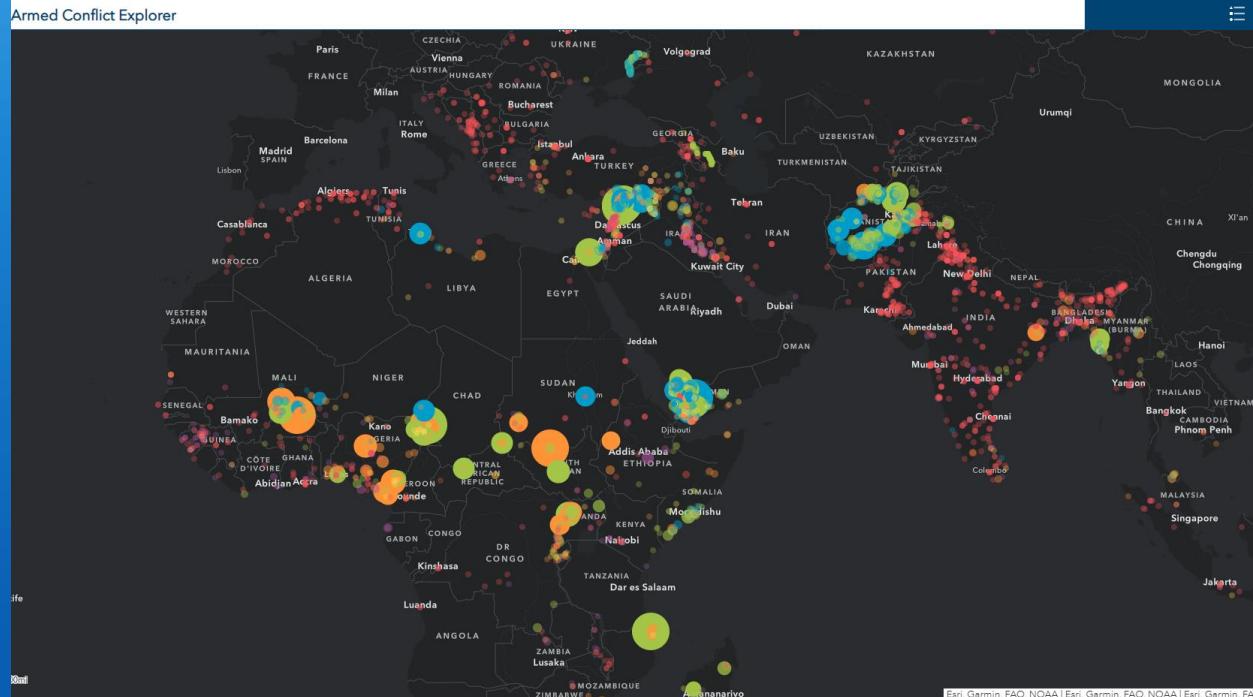
Web AppBuilder for ArcGIS



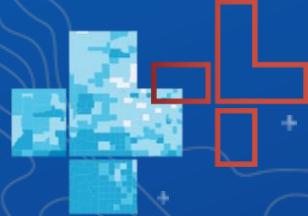
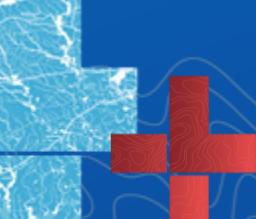
- Assemble an application using a theme, layout, & configurable widgets
- Interactive WYSIWYG experience
- Supports 2D and 3D data
- Integrated with ArcGIS Online and ArcGIS Enterprise
- **Dev Edition for Web AppBuilder**
 - For extensibility
 - ArcGIS Enterprise only



Web AppBuilder



life



Operations Dashboard

Monitor activities & KPIs



Configurable Apps
Web AppBuilder for ArcGIS
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ArcGIS StoryMaps

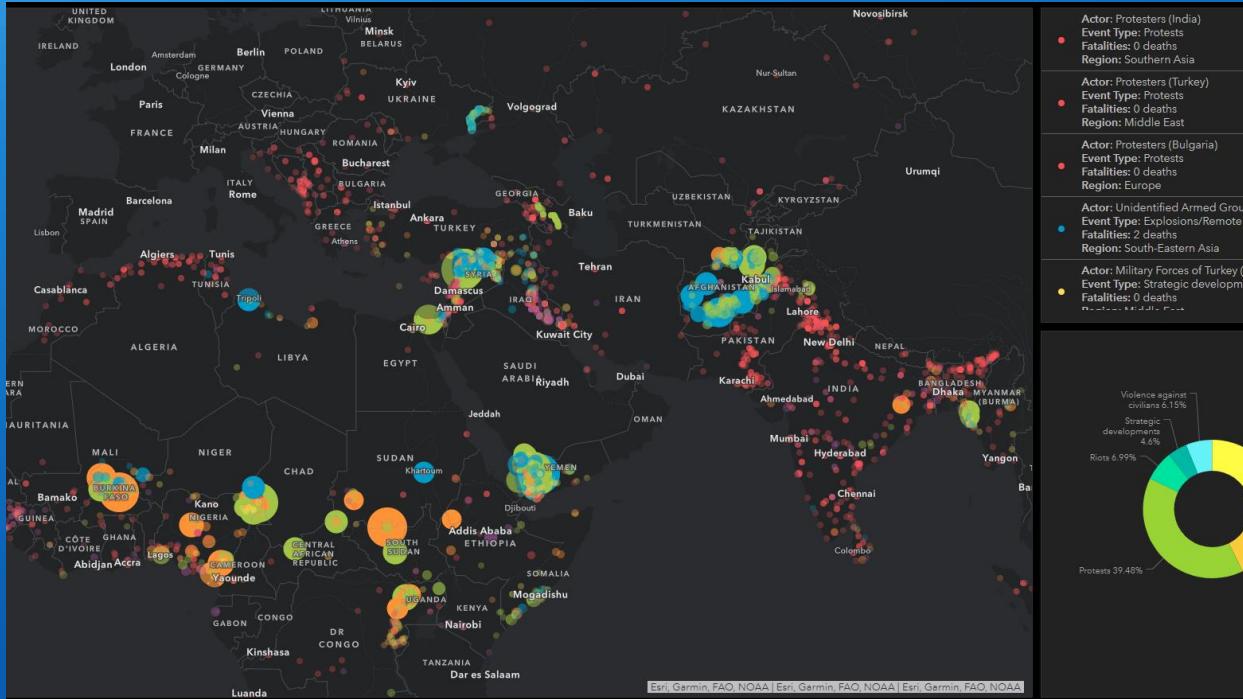
Operations Dashboard for ArcGIS



- Monitor assets, events, or activities for ‘at-a-glance’ decision making
 - Provides key insights to your data on a single screen
 - Includes many data visualization elements
- Web browser-based app
 - Works on desktops, tablets, and smart phones
- Integrated with ArcGIS Online and ArcGIS Enterprise (10.6 and later)
- Will support Arcade (March 2020)

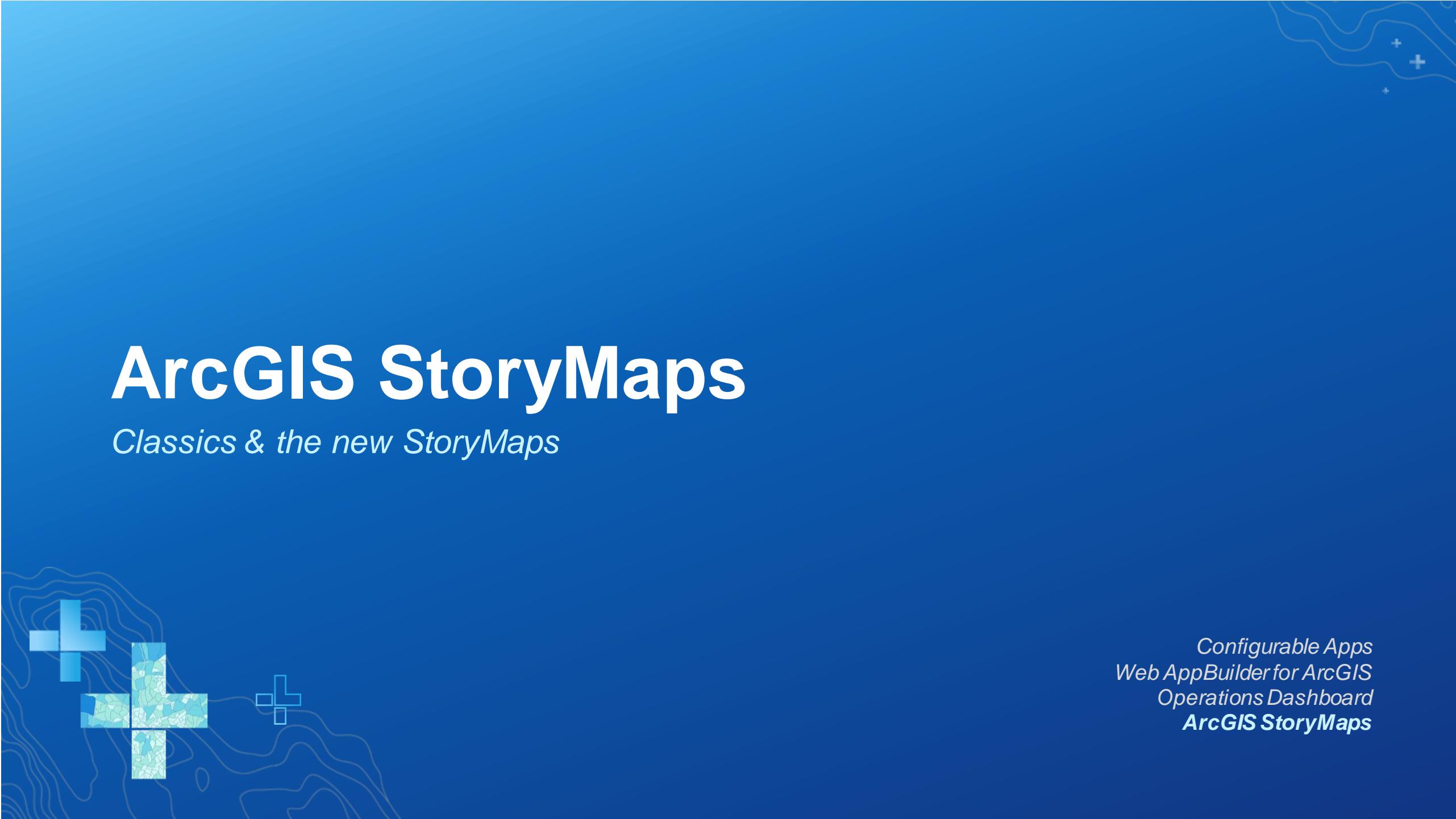


Operations Dashboard



ArcGIS StoryMaps

Classics & the new StoryMaps



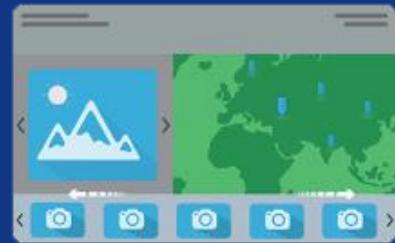
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Esri Story Maps and ArcGIS StoryMaps

- Esri Story Maps (classic)
 - Multiple builders to choose from
- ArcGIS StoryMaps (new)
 - The next generation Esri Story Maps
 - Single builder experience



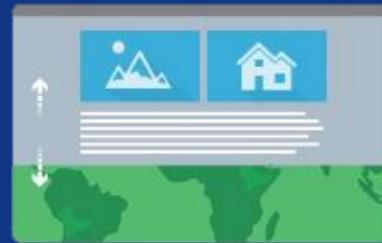
Esri Story Maps (Classic)



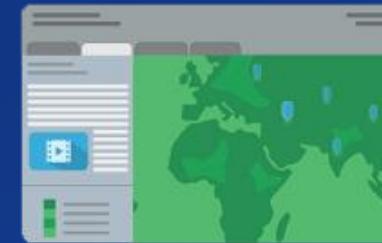
MAP TOUR



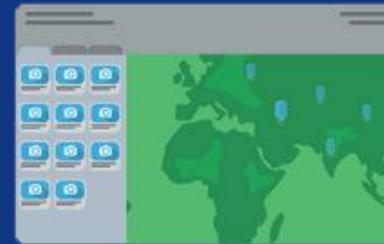
MAP JOURNAL



CASCADE



MAP SERIES



SHORTLIST



SWIPE/SPYGLASS



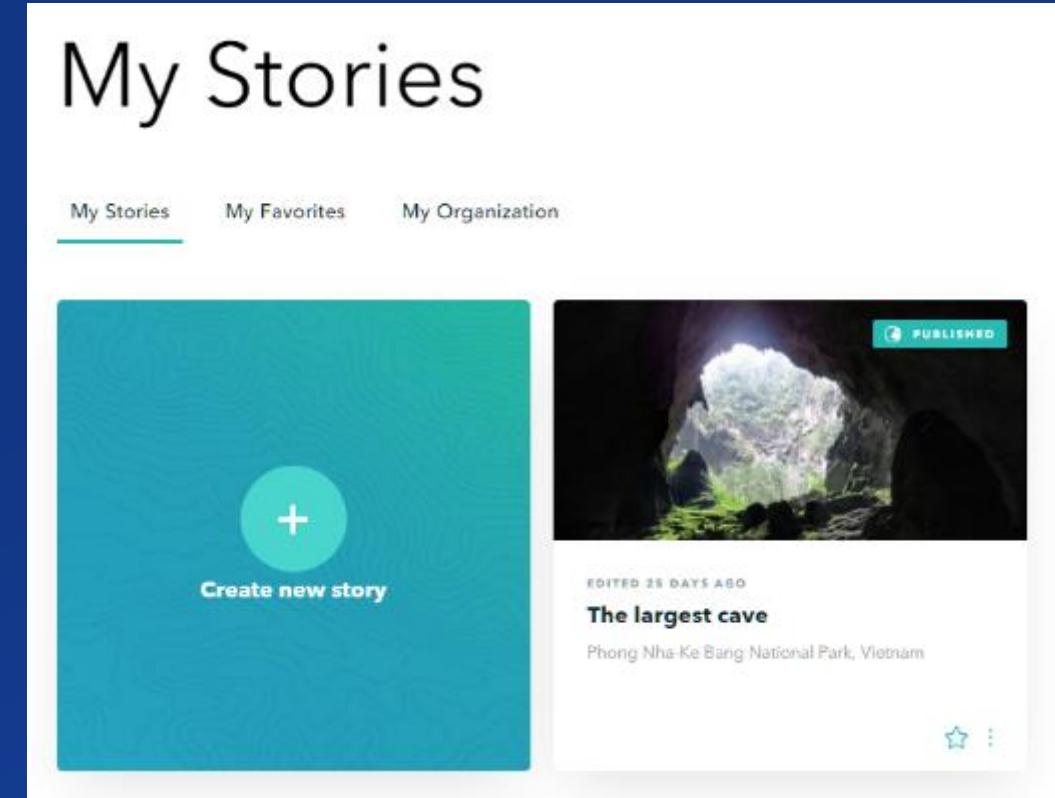
BASIC



storymaps-classic.arcgis.com/en/

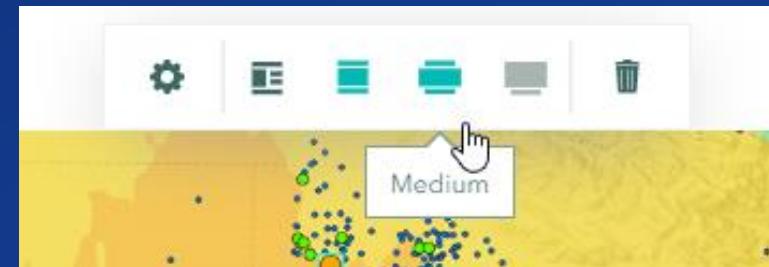
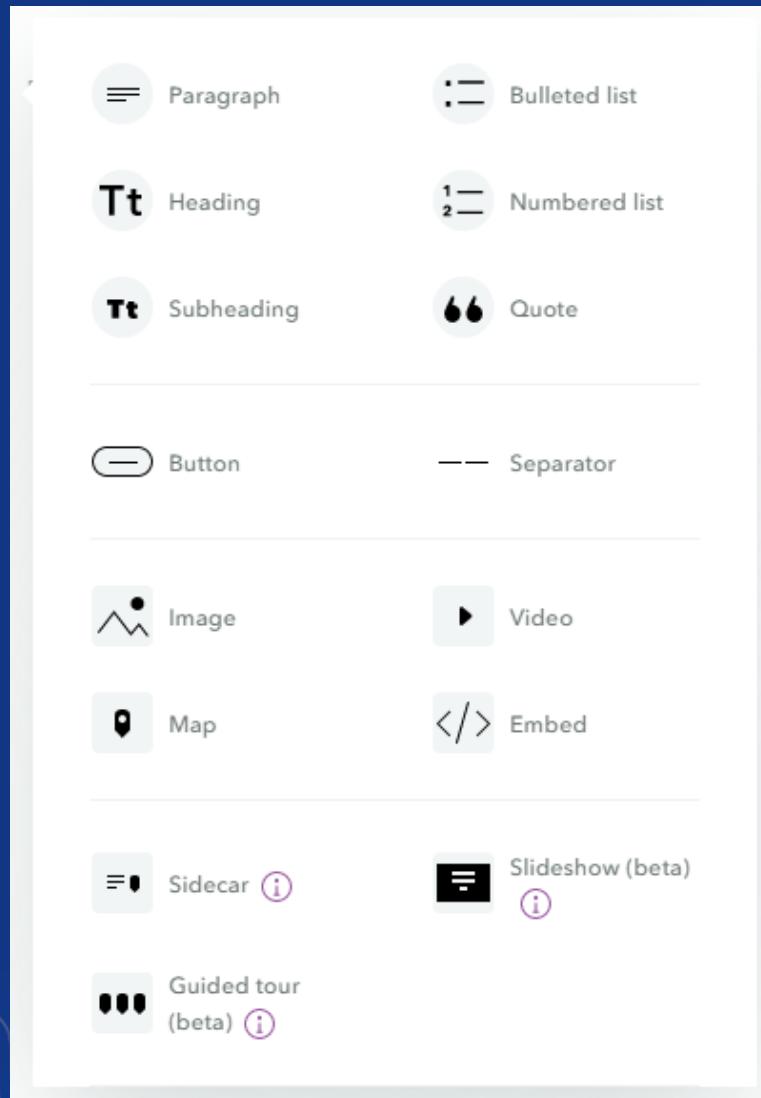
ArcGIS StoryMaps (New)

- One builder
- Theme-based
- Express maps (simple mapmaking)
- New publishing workflow
- New StoryMap item in Contents
- New Storytelling User Type



<https://storymaps.arcgis.com>

Content blocks

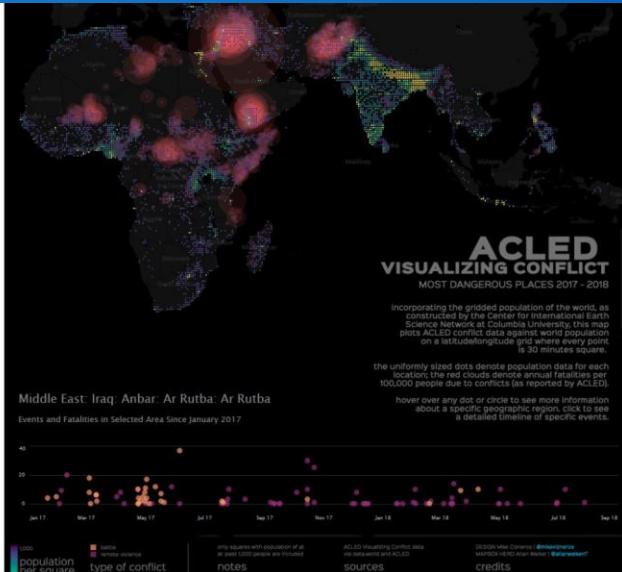


ArcGIS StoryMaps

Armed Conflict Location & Event Data

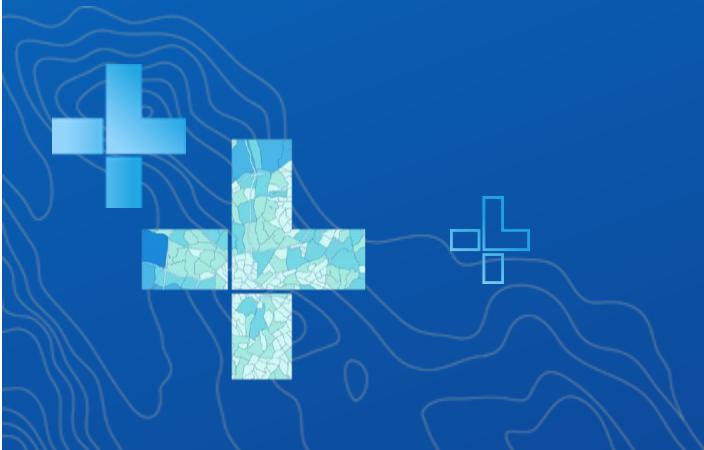
Visualizing Impact of Violence across the World

Calvin Kwon | Draft



Web Apps at Audubon

Elizabeth Todd, Dangermond Fellow



Summary

Web apps help you to make data-driven decisions.

There are dozens of configurable apps to choose from.

Leading organizations are modernizing their workflows with web apps.



Questions?



ArcGIS Security Update – HTTPS Only



- **Esri is committed to ensuring your content is secure**
 - TLS 1.2 implemented in 2019
 - **HTTPS Only / HSTS to be enforced *September 15, 2020***
- **What does this mean for you?**
 - After 9/15/20 all HTTP requests to ArcGIS Online will be redirected to HTTPS
 - Clients limited to HTTP only will fail (for example scheduled clear-text Python script calls)
 - HTTP only ArcGIS Enterprise deployments may have issues accessing ArcGIS Online services
- **What do you need to do?**
 - Validate your ArcGIS Online org utilizes HTTPS only immediately
 - Launch AGO Security Advisor tool to check your org settings @ Trust.ArcGIS.com
 - If HTTP enabled, use tool to discover HTTP references and change to HTTPS
 - Enforce HTTPS only for your orgs ASAP and validate clients/scripts can use HTTPS
 - Keep an eye out for additional announcements and support guidance pages

Print Your Certificate of Attendance

Print Stations Located in 150 Concourse Lobby

Tuesday

12:30 pm – 6:30 pm
Expo
Hall B

5:15 pm – 6:30 pm
Expo Social
Hall B

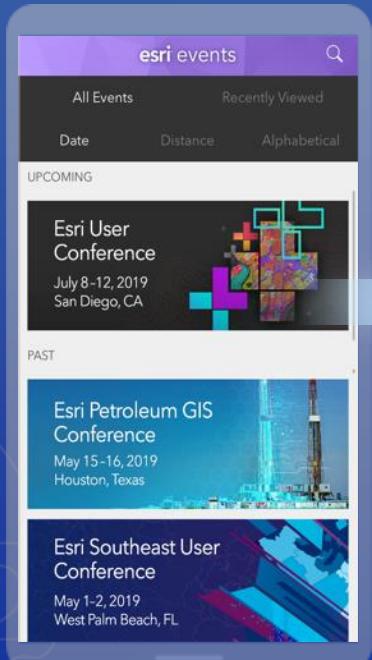
Wednesday

10:45 am – 5:15 pm
Expo
Hall B

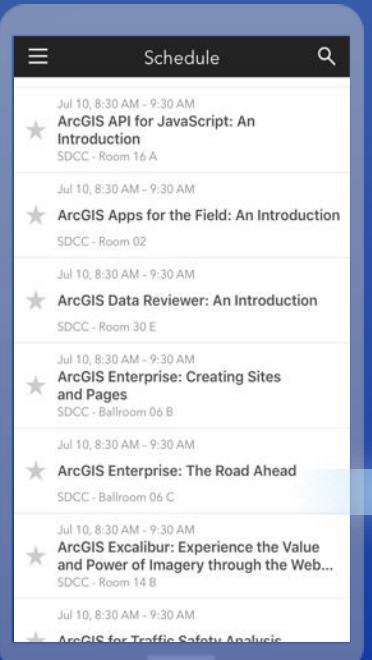
6:30 pm – 9:30 pm
Networking Reception
Smithsonian National Museum
of Natural History

Please Share Your Feedback in the App

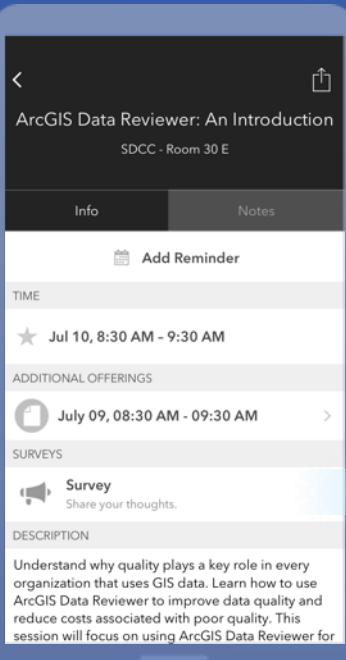
Download the Esri Events app and find your event



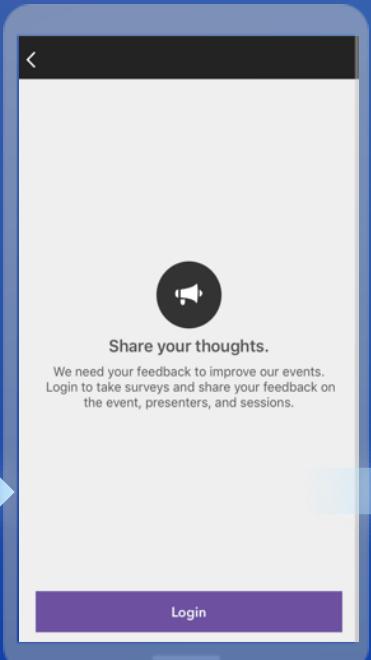
Select the session you attended



Scroll down to "Survey"



Log in to access the survey



Complete the survey and select "Submit"

