



# ArcGIS Enterprise: What's New

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An abstract graphic on the right side of the slide, composed of various geometric shapes like rectangles and lines in shades of blue, orange, and green. Some shapes contain patterns like topographic contour lines or a grid of dots.

**GIS  
INSPIRING  
WHAT'S  
NEXT**

# Agenda

- Overview of ArcGIS Enterprise
- What's new:
  - Deploying and upgrading
  - Content management
  - Mapping and analysis
  - Sharing and collaboration
  - For administrators

*Questions? Visit us after the session!*

# Overview

The background is a deep teal color with abstract, layered geometric shapes and lines in shades of blue, orange, and green. The shapes are primarily rectangular and triangular, some appearing as if they are floating or overlapping. There are also some faint, light-colored lines and patterns, possibly representing a network or data flow. The overall aesthetic is modern and digital.

*ArcGIS Enterprise provides full-featured mapping, analytics and data management capabilities, running on infrastructure you control, enabling you to visualize, interpret, and act upon your location-based data.*



# Components of ArcGIS Enterprise



ArcGIS  
Server



Portal for  
ArcGIS



ArcGIS  
Data Store



ArcGIS  
Web Adaptor



Relational

Tile Cache

Spatiotemporal

# Recent ArcGIS Enterprise Releases



## Related sessions:

### ArcGIS Enterprise: An Introduction

- Tuesday, July 10 and 2:30pm – 3:30pm

### Exploring New Functionality in the ArcGIS Enterprise Portal

- Tuesday, July 10, 12:15pm – 1:00pm
- Wednesday, July 11, 4:00pm – 4:45pm

### ArcGIS Enterprise: The Road Ahead

- Wednesday, July 11, 10:00am – 11:00am
- Friday, July 13, 9:00am – 10:00am



What's New



# Named User Licensing

# Named User Levels

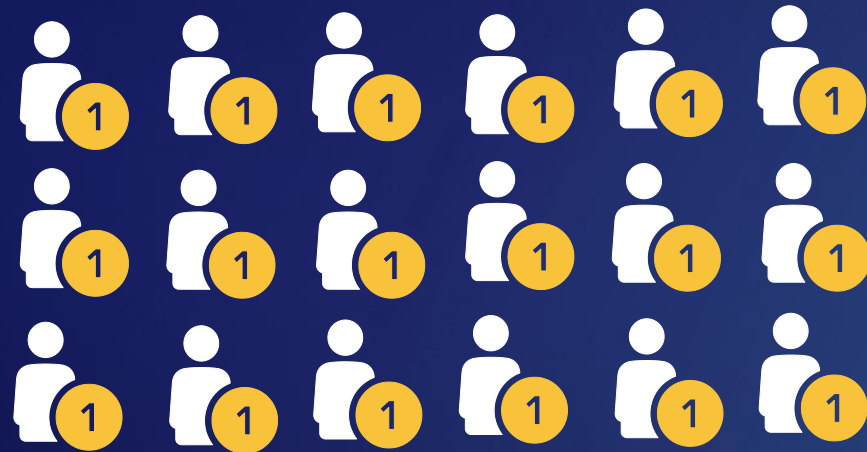


- Viewer (read only)
- Ability to view maps, apps
- Use geocoding and network analysis
- Cannot create, own or share content
- Cannot perform analysis or data enrichment



- Can be assigned a User, Publisher or Administrator role, unlocking additional privileges

# Announcing **No-Cost** Level 1 Named Users



Announced December 2017  
Effective January 1, 2018

*\*note this change does not apply to ArcGIS Online or to ArcGIS Enterprise Level 2 Named Users*

# Announcing **No-Cost** Level 1 Named Users

esri ArcGIS Industries About Support

My Esri

Dashboard My Profile My Organizations ?

Organization List | Overview Licensing

My Esri / My Organizations / Licensing

## Generate Portal for ArcGIS Licenses

### Step 2: Select Named User Quantity [← Back](#)

These authorization numbers will be used with the Portal for ArcGIS component of ArcGIS Enterprise. Specify the number of Named Users you would like to authorize for your ArcGIS Enterprise portal. **You can request as many Level 1 Named Users as you need for your organization.** The number of Level 2 Named Users available is based on your purchase agreement or contract.

[Learn more about Named User levels](#)

# Deploying & Upgrading

The image features a dark teal background with a subtle grid pattern. In the center, the text "Deploying & Upgrading" is written in a clean, white, sans-serif font. The top-left corner is decorated with several overlapping, diagonal lines in shades of teal, blue, and red. The bottom-right corner contains a complex graphic of overlapping, semi-transparent geometric shapes in various colors, including teal, orange, and light green, creating a sense of depth and movement.

# ArcGIS Enterprise Builder

- Command-line tools now available for Builder
- Upgrading workflow for deployments created using ArcGIS Enterprise Builder



ArcGIS  
Enterprise Builder



Chef



PowerShell DSC



Cloud

# PowerShell DSC and Cloud Builder for Azure

- Standalone Powershell DSC option for Windows-centric deployments
- Ability to export deployment artifacts from Cloud Builder for Azure



ArcGIS  
Enterprise Builder



Chef



PowerShell DSC



Cloud



# Content and Item Management





# ArcGIS Enterprise PM portal

# Gallery

## Gallery for ArcGIS Enterprise PM portal

Search gallery

Relevance

Item Type

- Maps
- Layers
- Scenes
- Apps
- Tools
- Files

Date Modified

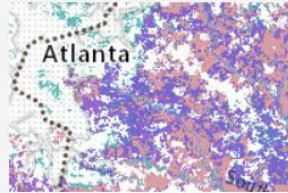
Status



World Imagery



National Geographic World Map



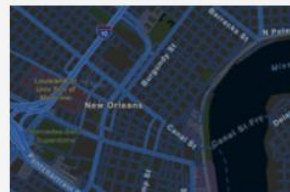
USA Forest Type



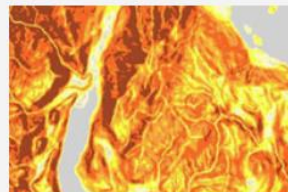
World Traffic Service



USA Roads



Streets (Night)



Terrain: Slope Map



World Topo Base



- Filters: Date Modified, Status
- Search
- Living Atlas tab ('Esri Featured Content') moved to Content page

# Content

Home Gallery Map Scene Groups Content Organization

Content

My Content My Favorites My Groups My Organization Living Atlas

+ Add Item Create

Search Content Categories

1 - 7 of 7 in Content Categories Sort by: Date Modified

Title	Modified
Crime Incidents	Jul 5, 2018
Crash Data	Jun 29, 2018
Fire Hydrants	Jun 29, 2018
Cultural Areas	Jun 29, 2018
Snow Emergency Roads	Jun 29, 2018
Tour Bus Dropoff Pickup Locations	Jun 29, 2018
Police Stations	Jun 29, 2018

Folders

Filter folders

All My Content

hcurtis

Content Categories

GeoAnalytics

Item Management

Living Atlas

OOTB Spatial Analysis

Quantization

Categories

Item Type

Date Modified

Date Created

Shared

Status

- Tabs
- Filters: categories, date modified, date created, shared, status
- Sort by date modified, title
- Display: grid, table, list
- Search

# Groups

Home Gallery Map Scene **Groups** Content Organization

Hilary

## Groups

My Groups | **Featured Groups** | My Organization's Groups

+ Create New Group

Only show groups with new membership requests

Owner




- Owned by Me
- Owned by Others

Date Created

- Today
- Yesterday
- Last 7 Days
- Last 30 Days
- Custom Range...

Search My Groups

1 - 6 of 6 Sort by: Date Created

-  **Big data number crunchers** [Leave Group](#)  
Owner: admin  
Created: Jul 21, 2017 Last Updated: Jul 21, 2017 Viewable by: Everyone (public)
-  **PM team work** [Leave Group](#)  
Owner: pheede  
Created: Aug 31, 2017 Last Updated: Aug 31, 2017 Viewable by: Group Members
-  **Site Administration Group** [Leave Group](#)  
Owner: admin  
Created: Jun 21, 2018 Last Updated: Jun 21, 2018 Viewable by: Organization

DO NOT DELETE OR MODIFY THIS GROUP. This group is managed by the ArcGIS Enterprise Sites application. To make changes to this group, please visit the Team tab at <https://pm.demo.geocloud.com/arcgis/apps/sites/admin/#/team>

- Filters: date created, viewable by
- Sort by title, date modified, date created
- Search

# Item level enhancements

- New item information bar

- Authoritative and deprecated badges

Crash Data Edit

Overview Data Visualization Settings

Edit Thumbnail

Crash data in DC from Open Data DC.

Feature Layer (hosted) by hcurtis

Created: Jun 29, 2018 Updated: Jun 29, 2018 View Count: 18

Add to Favorites

Description

Crashes in DC. Crashes on the street center line network of V

Layers

Crashes\_in\_DC

Open In Export To Time Settings

Terms of Use

Add any special restrictions, disclaimers, terms and

Item Information Hide

Low High

Make your item easy to find, understand and use by completing item information.

- Add a longer summary
- Add a thumbnail
- Add a longer description
- Add a title
- Add tags
- Add terms of use

Open in Map Viewer

Open in Scene Viewer

Open in ArcGIS Desktop

Publish

Create View Layer

Export Data

Share

Metadata

Item Information Hide

Low High

Make your item easy to find, understand and use by completing item information.

- Add a longer summary
- Add a thumbnail
- Add a longer description
- Add a title
- Add tags
- Add terms of use

Encourage quality metadata

Golf Courses

Overview Data Visualization Settings

General Feature Layer (hosted)

General

Content Status

Recommend the use of this item.


Mark as Authoritative

Discourage the use of this item.

Mark as Deprecated

Promote quality items

Item Information ✕ Hide



Low High

Make your item easy to find, understand and use by completing item information.

- Add a longer summary
- Add a thumbnail
- Add a longer description
- Add a title
- Add more tags
- Add terms of use

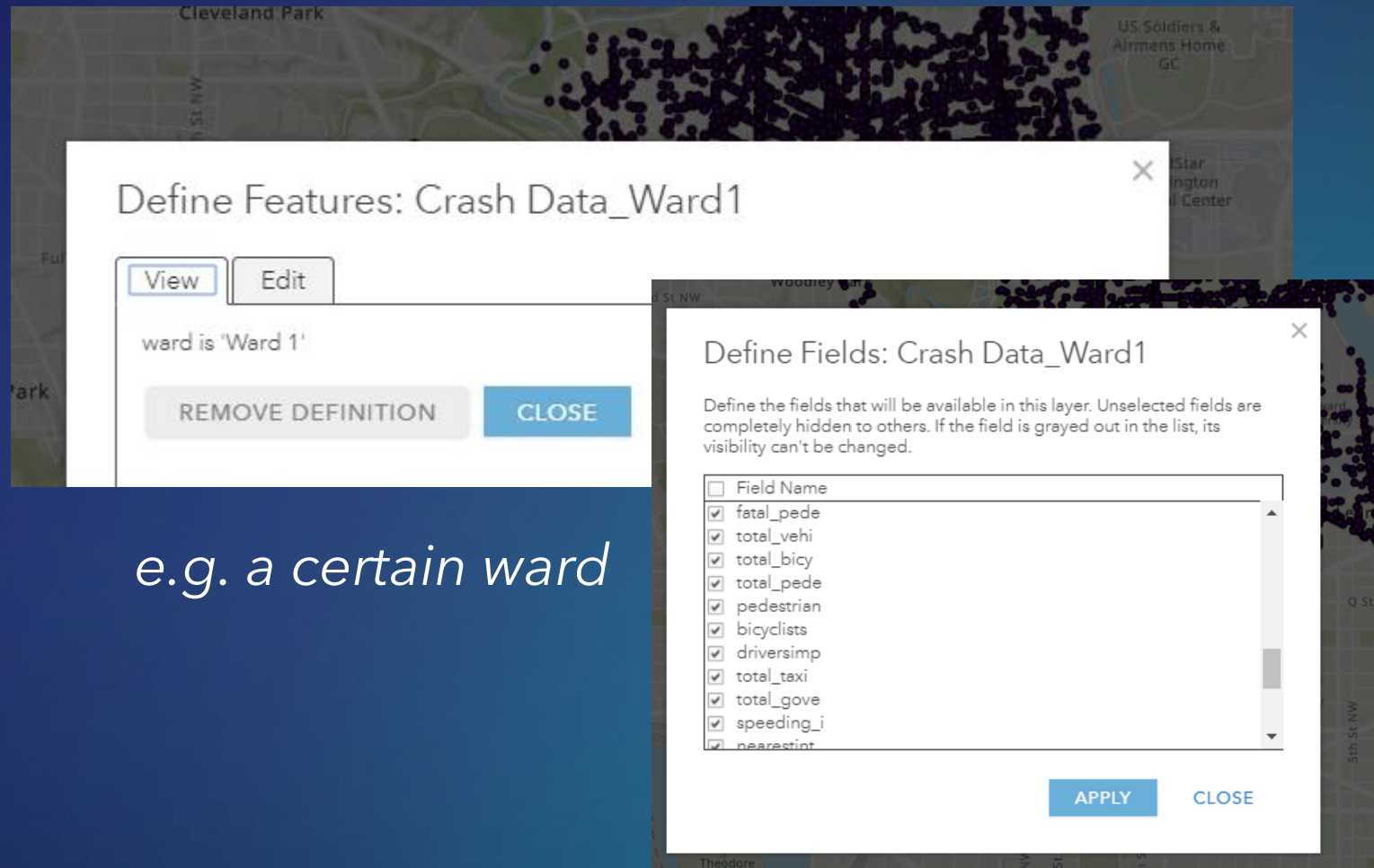
# Item Information

Demo

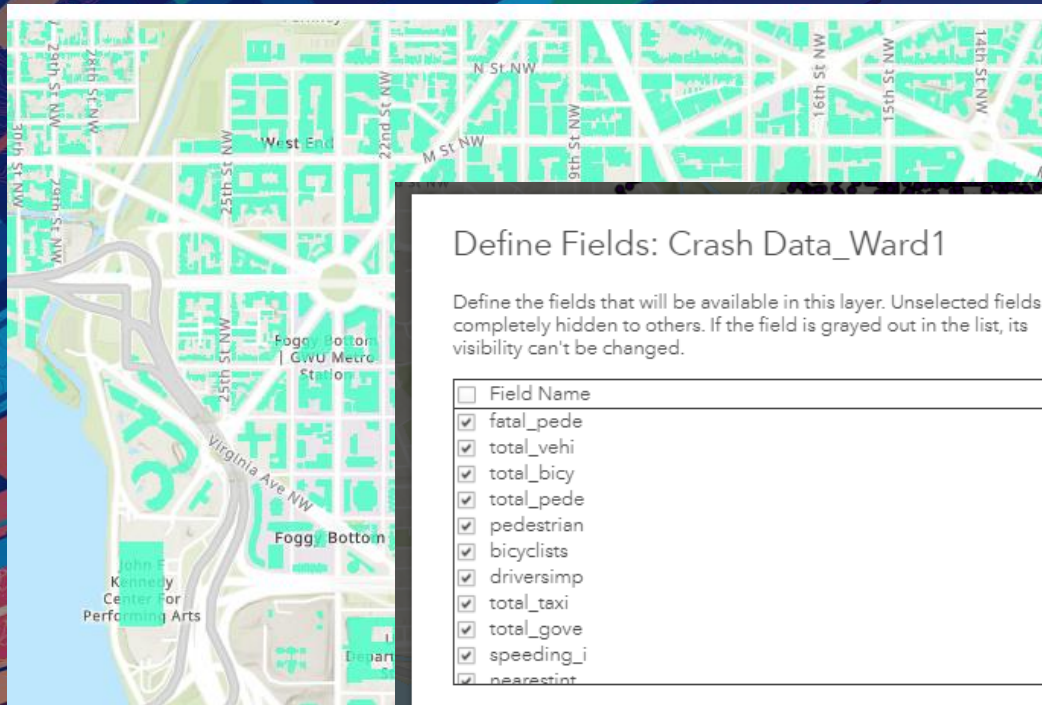
# Hosted feature layer views

Apply different characteristics than the source data:

- Styles and symbology
- Editing settings
- Feature and/or field definitions
- User access through group sharing



*e.g. a certain ward*



### Define Fields: Crash Data\_Ward1

Define the fields that will be available in this layer. Unselected fields are completely hidden to others. If the field is grayed out in the list, its visibility can't be changed.

- Field Name
- fatal\_pede
- total\_vehi
- total\_bicy
- total\_pede
- pedestrian
- bicyclists
- driversimp
- total\_taxi
- total\_gove
- speeding\_i
- nearestint

APPLY CLOSE

# Hosted Feature Layer Views

Demo



# Content categories

- A way to arrange and discover content based on organization-wide themes
- Categories allow members to organize items consistently and provide a simple way to browse content in the organization



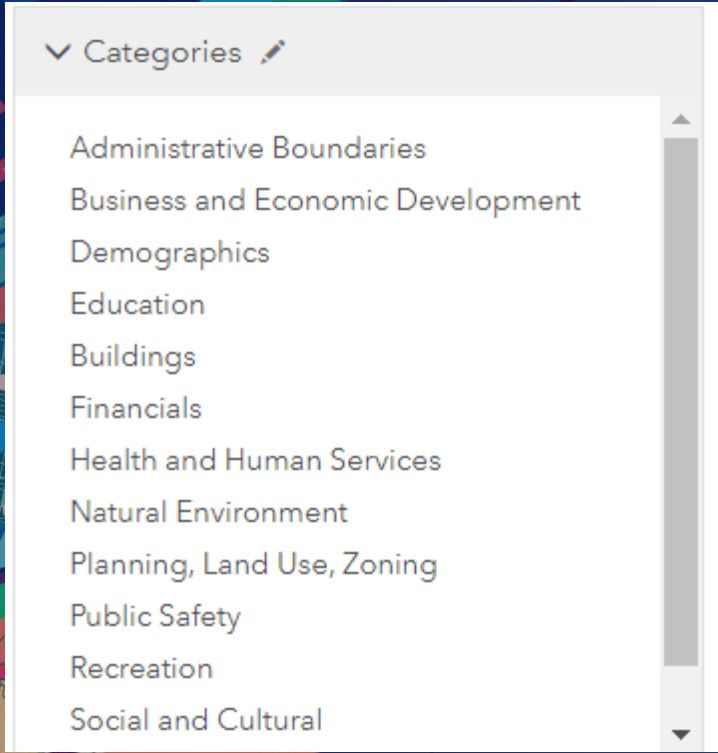
**Custom categories**  
Create your own categories to organize content within your organization.

**ArcGIS categories** ⓘ  
ArcGIS categories include a selection of topic categories and subcategories that can be used to categorize many types of geospatial content. These categories are used to support ArcGIS Living Atlas of the World.

**ISO categories** ⓘ  
ISO categories includes topic categories from the International Organization for Standardization that provide a method for describing and cataloging geographic information.

**INSPIRE categories** ⓘ  
INSPIRE categories include a comprehensive set of spatial data themes set out in the INSPIRE Directive.

- Use custom or template hierarchies
- Default administrator role or custom role with privilege 'manage categories'



# Content Categories

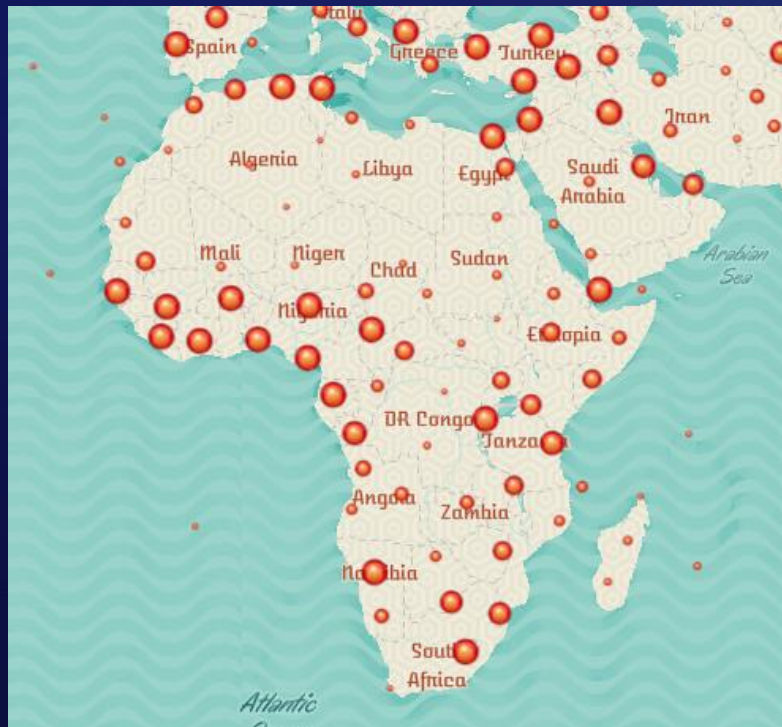
Demo

# Mapping & Analysis

The image features a dark teal background with a subtle, light-colored map grid. In the center, the text "Mapping & Analysis" is written in a clean, white, sans-serif font. The composition is framed by abstract, colorful geometric elements: a cluster of overlapping lines in shades of teal, blue, and red in the top-left corner, and a series of parallel, slanted bars in orange, dark blue, and light green in the bottom-right corner.

# Symbology and smart mapping styles

- Clustering



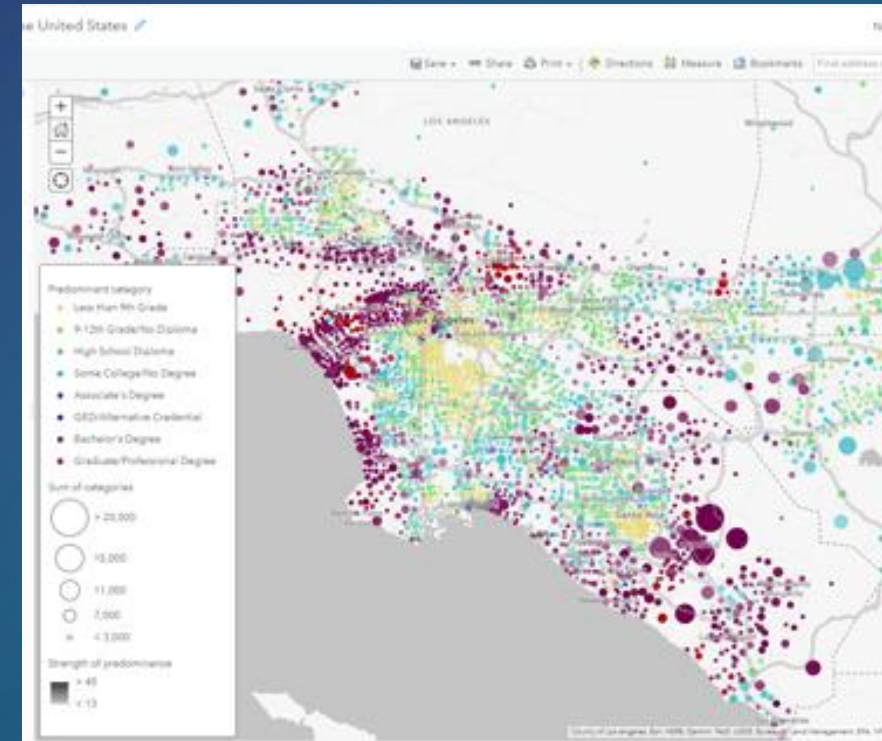
*groups point features close to one another into one symbol*

- Firefly



*adds a bright dimension*

- Predominant Category (and Size)



*now up to 10 attributes*

## Analysis tools

### New standard feature analysis tools:

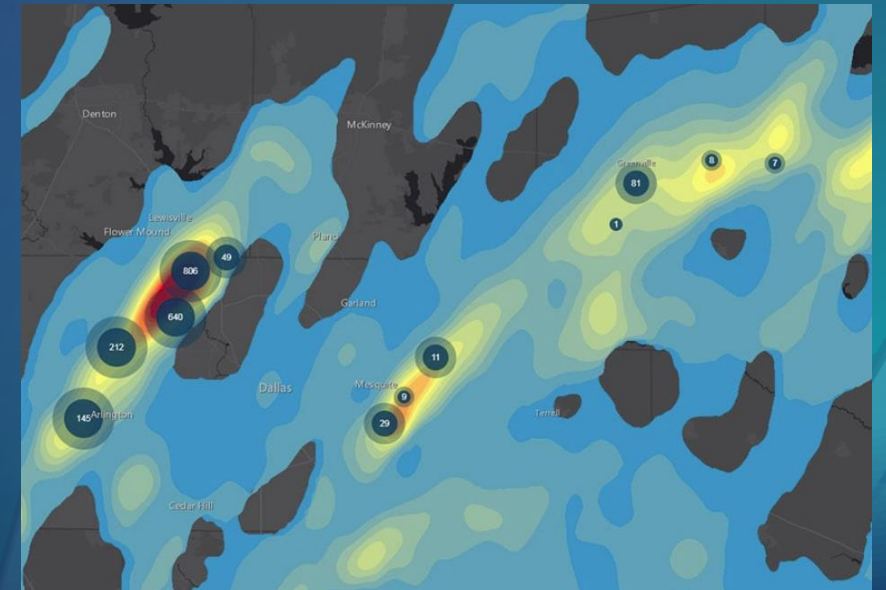
- Summarize Center and Dispersion
- Find Point Clusters
- Find Centroids
- + existing tool enhancements

### New GeoAnalytics (big data) tools:

- Detect Incidents
- Geocode Locations from Table
- Calculate Field
- Append Data
- Build Multi-Variable Grid
- Find Point Clusters
- Overlay Layers
- + existing tool enhancements

+ *new tools in Image Server for hydrology*

+ *raster analysis tools for calculating travel and distance*





**CreateSpiderDiagram**

**1 Origin Points\***  
OriginPointLayer

**2 Origin Key Field**  
COUNTYABBR

**3 Destination Points\***  
DestinationPointLayer

**4 Destination Key Field**  
COUNTYABBR

**5 Output spider lines\***  
outlines

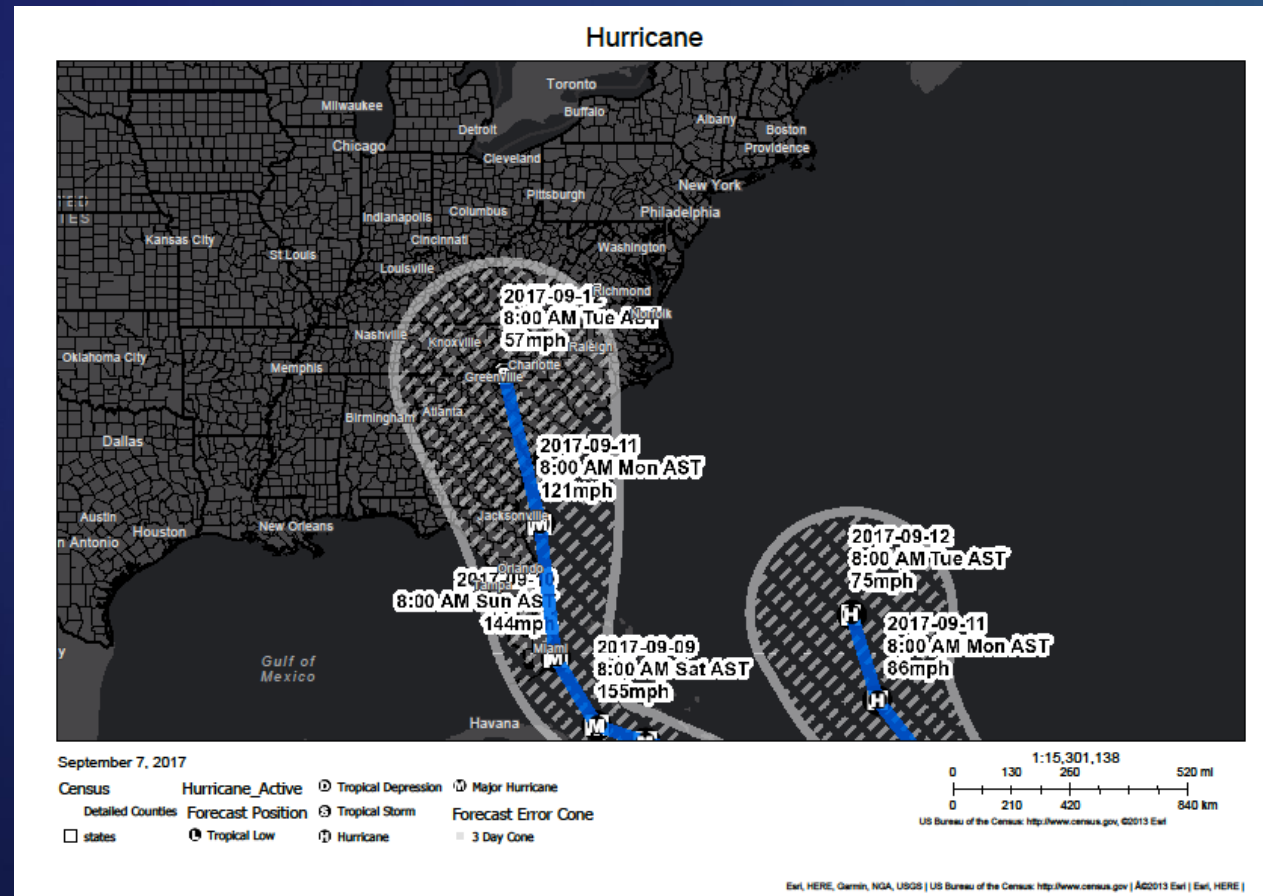
**RUN ANALYSIS**

# Custom Web Tools

## Demo

# Print Service

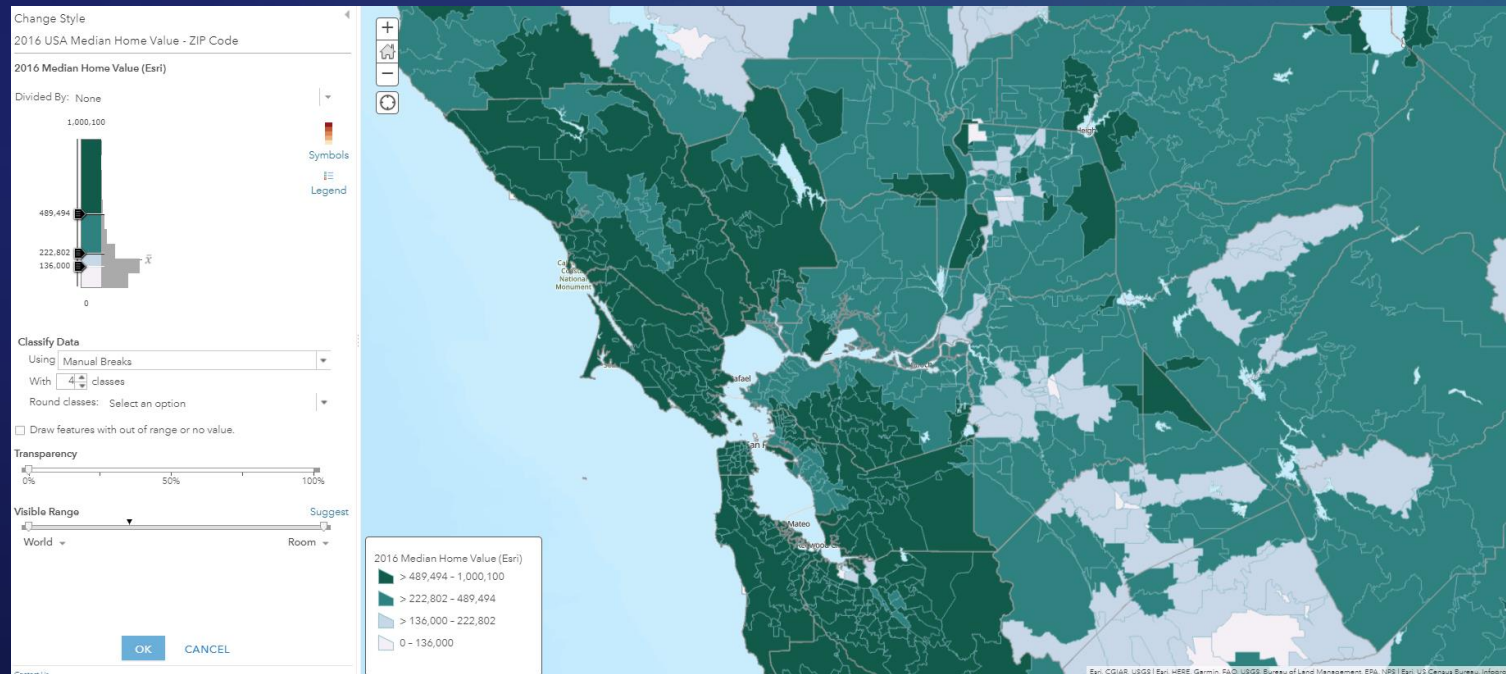
- Support for vector tile layers
- Improved rendering for smart mapping, color transparency, Unicode support and legends

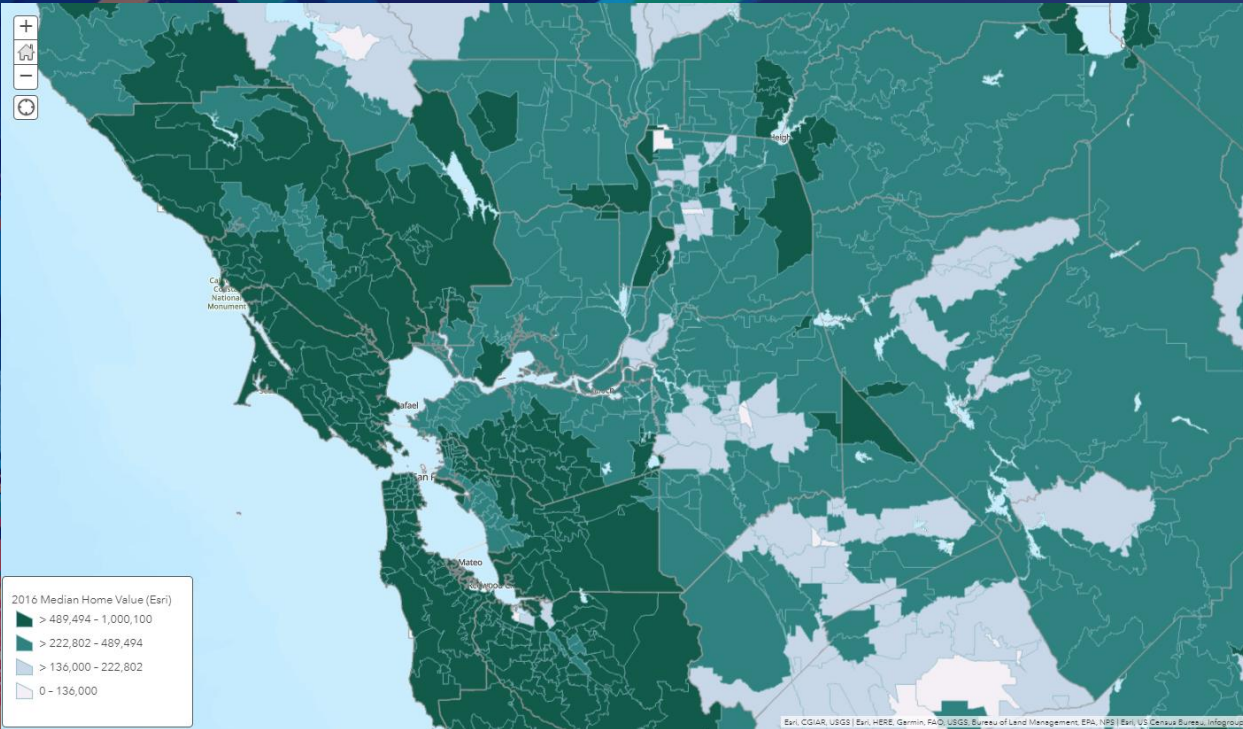




# Performance improvements for map and feature services

- Now include quantization parameters that significantly enhance drawing performance
- Supported clients: ArcGIS Pro 2.2, Enterprise Map Viewer, Javascript 4.5+





# Performance Improvements

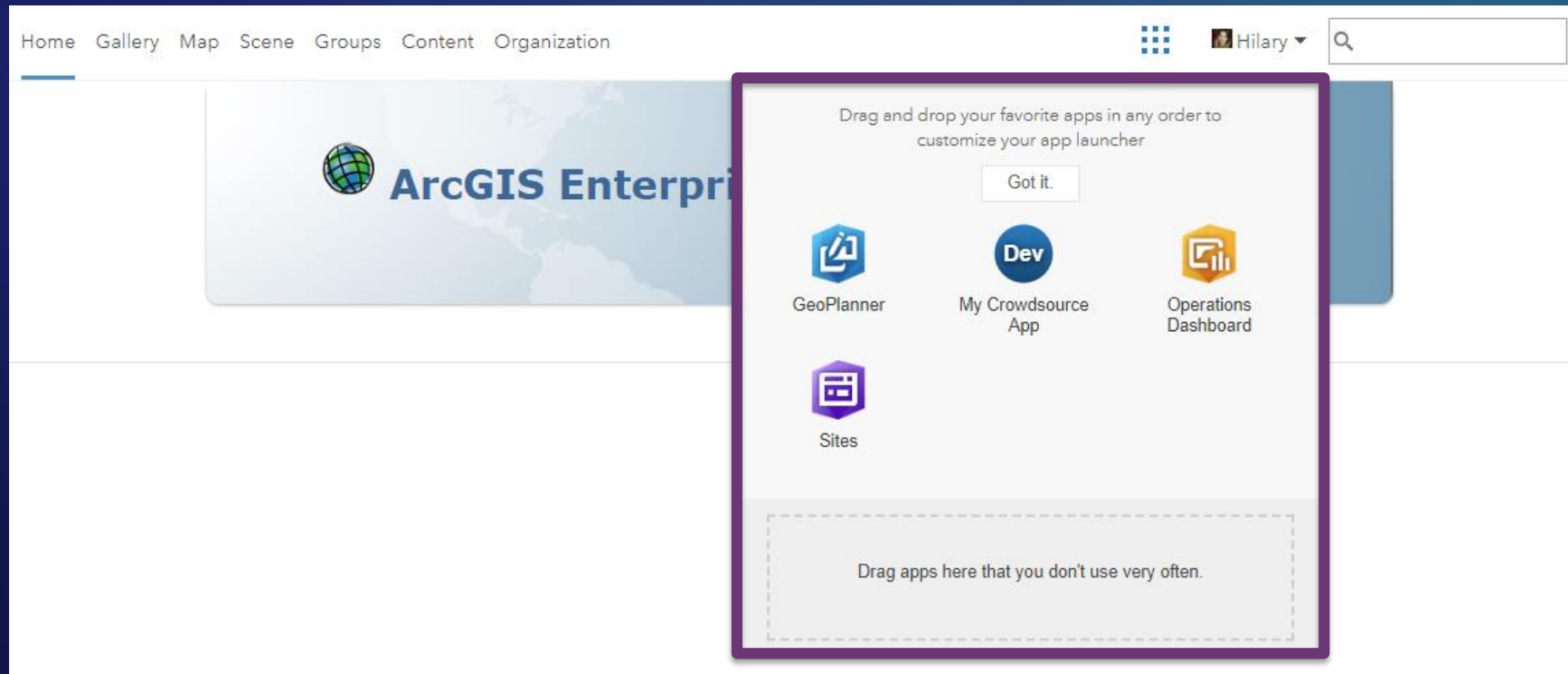
## Demo



Apps

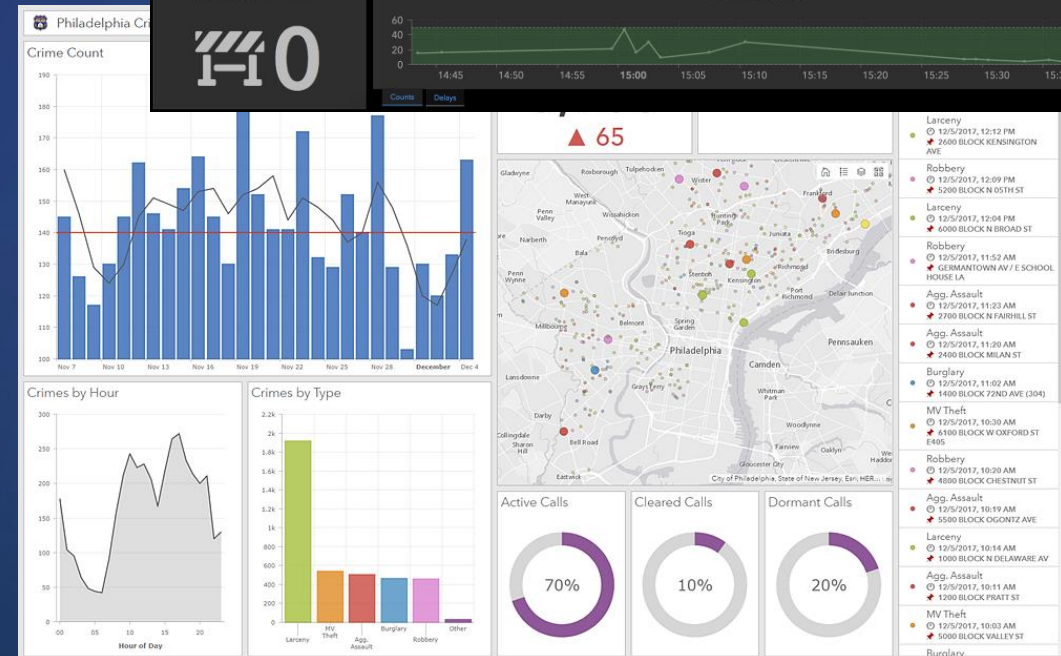
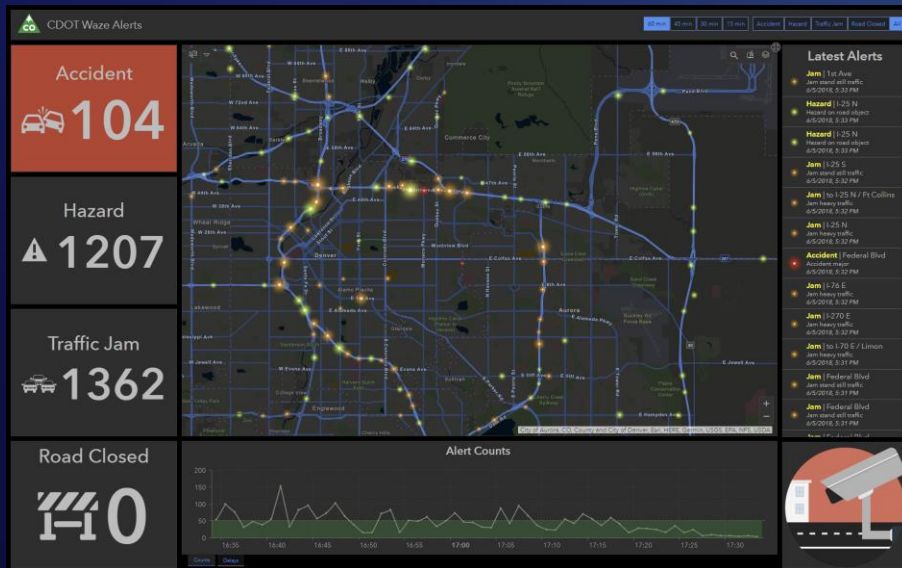
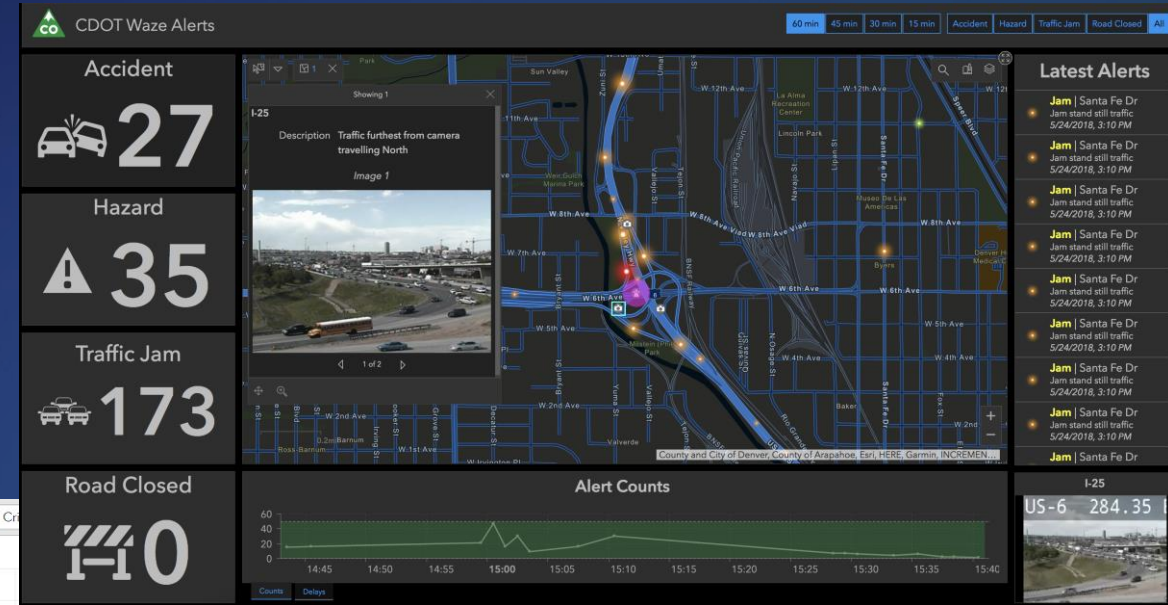
# App Launcher

- Bookmark apps that are relevant to your organization
- Allows for simple access to apps for your users
- "Request for permissions" prompt does not display



# Operations Dashboard for ArcGIS

- Included with 10.6.1 release
  - **New** configurable web app
  - Operational view of your data and activity
  - Many ready-to-use data visualizations
    - Map, Serial chart, Pie chart, Indicator, Gauge
    - List, Details, Embedded content, Rich text
  - Various tools and interactivity options

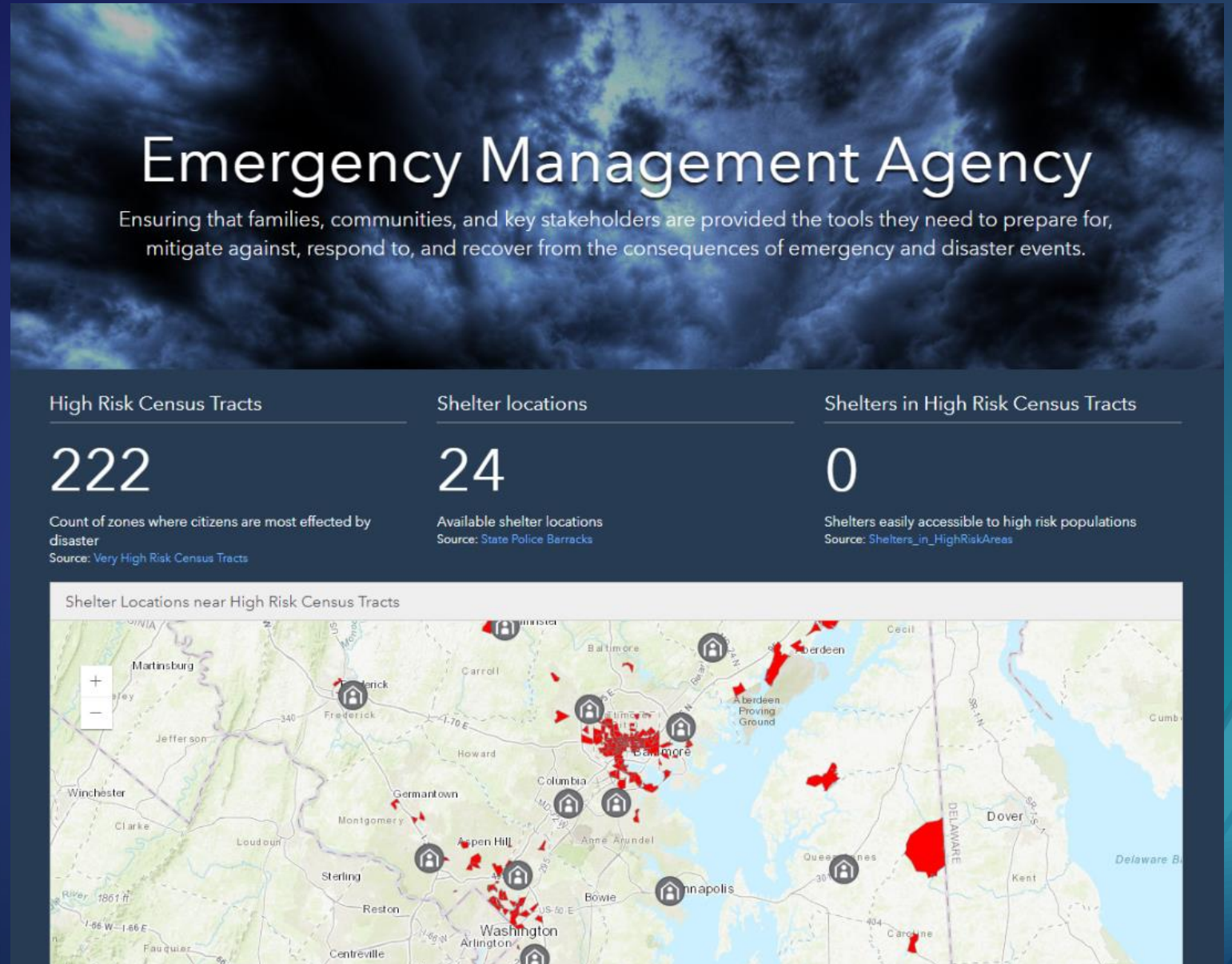


# Sharing & Collaboration

The image features a dark teal background with a subtle, light-colored grid pattern. In the center, the text "Sharing & Collaboration" is written in a clean, white, sans-serif font. The design is accented with abstract, colorful geometric shapes in shades of orange, yellow, and light green, primarily located in the top-left and bottom-right corners. These shapes include overlapping lines, rectangles, and a faint map-like grid.

# ArcGIS Enterprise Sites

- Brand new at 10.6.1!
- Create custom websites and pages that are powered by your content.
- Enabling you to deliver a tailored experience that makes data discovery easier and more approachable for your users.



# Distributed Collaboration

- What is it?

A way to share items (maps, layers, documents) between ArcGIS Enterprise deployments and with ArcGIS Online.



- What's new?

- **Collaboration with ArcGIS Online now out of beta!**
- Share web mapping applications
- Share feature layers as copies from Enterprise : Enterprise (Online available at 10.5.1)
- Option to synchronize content on demand
- Dynamic reporting on status of synchronizations
- Policy on what happens to your data when you leave or delete a collaboration



## Sites:

Exploring New Functionality in the ArcGIS Enterprise Portal

- Tuesday, July 10, 12:15pm - 1:00pm
- Wednesday, July 11, 4:00pm - 4:45pm

## Collaboration:

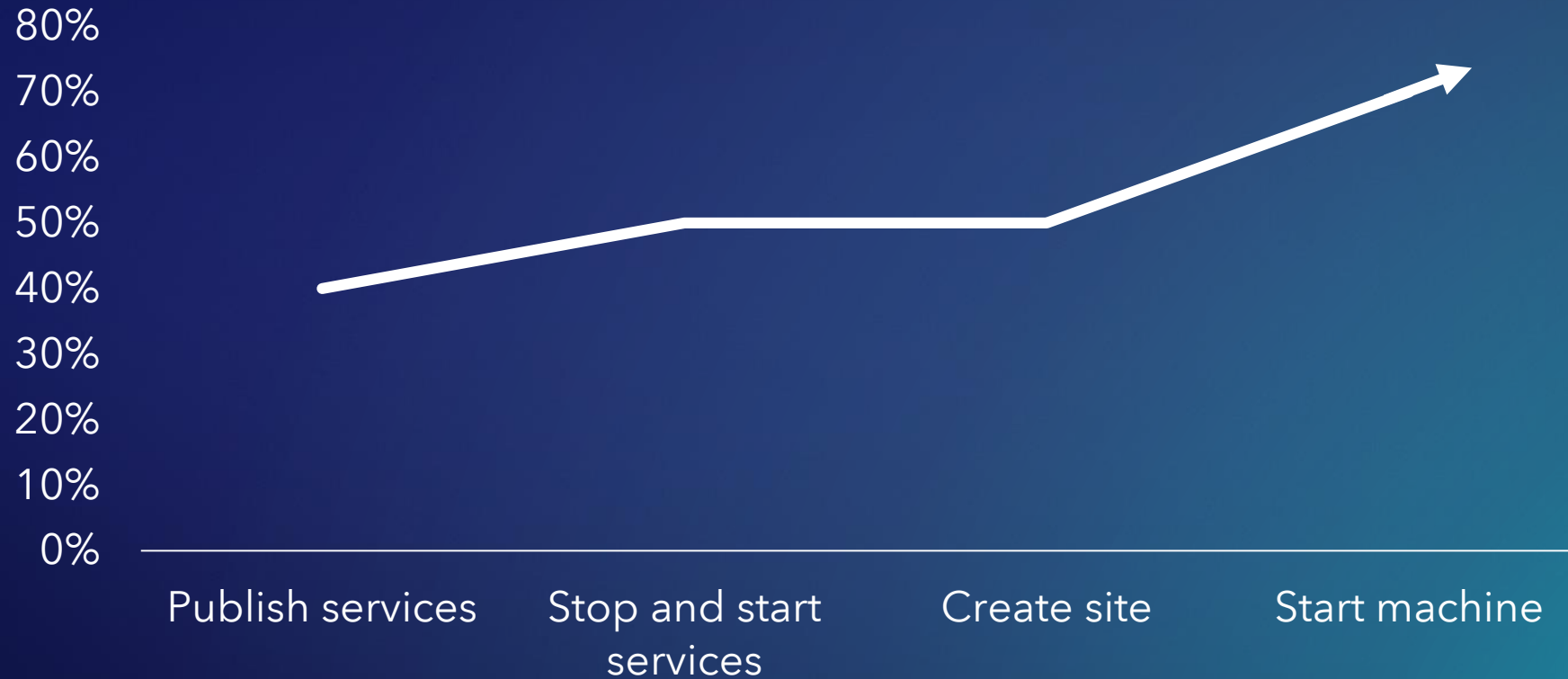
Distributed Collaboration with ArcGIS Enterprise

- Thursday, July 12, 11:15am - 12pm



Administrative

# Faster response times for service management operations



*Available for all new sites and upgraded single cluster sites*

## Support for caching in cloud stores

- New in 10.6: Create and manage caches in Amazon S3 and Azure blob storage cloud store directories



- New in 10.6.1: Create and manage caches in Alibaba OSS and Huawei OBS blob storage cloud store directories

# New privileges

- Publish server-based layers
- Add (members)
- Manage categories
- Publish web tools

General Privileges		
<b>[-] Members</b> <input type="checkbox"/> View	<b>[-] Groups</b> <input type="checkbox"/> Create, update, and delete <input type="checkbox"/> Join organizational groups <input type="checkbox"/> View groups shared with portal	<b>[-] Content</b> <input type="checkbox"/> Create, update, and delete <input type="checkbox"/> Publish hosted feature layers <input type="checkbox"/> Publish hosted tile layers <input type="checkbox"/> Publish hosted scene layers <input type="checkbox"/> Publish server-based layers <input type="checkbox"/> View content shared with portal
<b>[-] Sharing</b> <input type="checkbox"/> Share with groups <input type="checkbox"/> Share with portal <input type="checkbox"/> Share with public <input type="checkbox"/> Make groups visible to portal <input type="checkbox"/> Make groups visible to public	<b>[-] Content and Analysis</b> <input type="checkbox"/> Geocoding <input type="checkbox"/> Network Analysis <input type="checkbox"/> Standard Feature Analysis <input type="checkbox"/> GeoEnrichment <input type="checkbox"/> Elevation Analysis <input type="checkbox"/> GeoAnalytics Feature Analysis <input type="checkbox"/> Raster Analysis	<b>[-] Features</b> <input type="checkbox"/> Edit <input type="checkbox"/> Edit with full control
Administrative Privileges		
<b>[-] Members</b> <input type="checkbox"/> View all <input type="checkbox"/> Update <input type="checkbox"/> Delete <input type="checkbox"/> Add <input type="checkbox"/> Disable <input type="checkbox"/> Change roles <input type="checkbox"/> Manage licenses	<b>[-] Groups</b> <input type="checkbox"/> View all <input type="checkbox"/> Update <input type="checkbox"/> Delete <input type="checkbox"/> Reassign ownership <input type="checkbox"/> Assign members <input type="checkbox"/> Link to enterprise group <input type="checkbox"/> Create with update capabilities	<b>[-] Content</b> <input type="checkbox"/> View all <input type="checkbox"/> Update <input type="checkbox"/> Delete <input type="checkbox"/> Reassign ownership <input type="checkbox"/> Manage categories <input type="checkbox"/> Publish web tools

## Monitoring asynchronous geoprocessing jobs

- Start time
- End time
- Status
- User
- Machine Name

*Caching, GeoAnalytics, Raster Analysis, Publishing...*

**ArcGIS Server Administrator Directory**

[Home](#) > [services](#) > [System](#) > [GeoAnalyticsTools.GPServer](#) > [jobs](#) > [query](#)

### Query Jobs

Jobs Filter

**Start Time:**

**End Time:**

**Status:**   
NEW  
SUBMITTED  
EXCECUTING  
SUCCEEDED  
FAILED  
CANCELLING  
CANCELLED  
WAITING

**User:**

**Machine Name:**

**Jobs Per Page:**

**Format:**

**Total Jobs : 8**

- [j3427dca2d5834a35949deb4f687db161](#) ( status : esriJobSucceeded)
- [j1d64f8bf6a1b4bcca262124fbacf38a3](#) ( status : esriJobSucceeded)
- [j0437a2581ee344b582dc5ec77868f93d](#) ( status : esriJobCancelled)
- [j8ea0da73e10349aab1f6317966f2ae92](#) ( status : esriJobSucceeded)
- [jbfda74b8b1bc49c884b6c8f0490a497c](#) ( status : esriJobSucceeded)
- [j358fe234e6534ca1b3559a4e05689a6d](#) ( status : esriJobExecuting)
- [jb2290626059a4e4392cf56fac74ce851](#) ( status : esriJobExecuting)
- [j11caeb7ddbda4ed0a33201dc19626967](#) ( status : esriJobSubmitted)






In addition...

# Redesign of web help experience

- An updated design
- A clear entry point to showcase Enterprise workflows
- Better visibility to search and selected sections
- An “at-a-glance” view of system requirements and installation guides

Already using ArcGIS Server? Migrate to a base ArcGIS Enterprise deployment. Find out how.

## Get Started

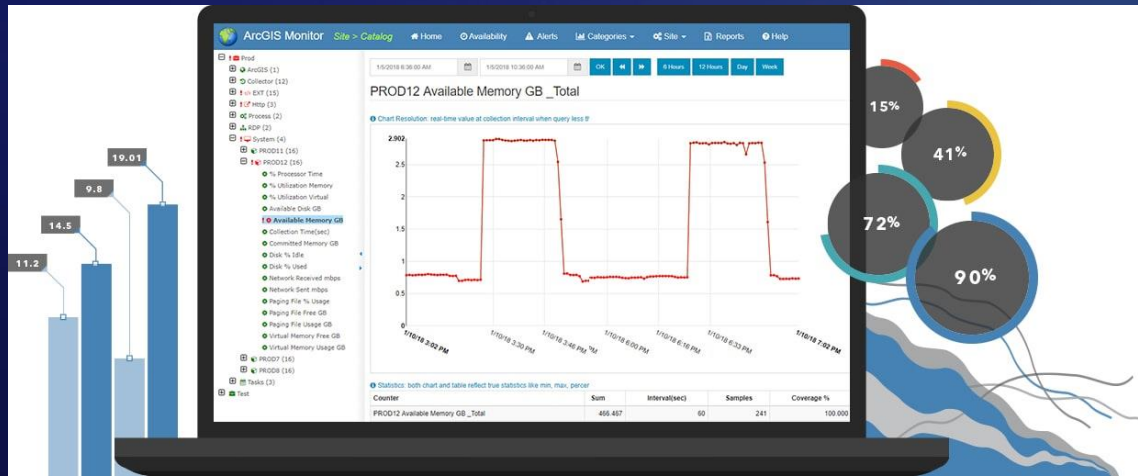
				
<h3>Easy installation</h3> <p>Use the ArcGIS Enterprise Builder for a base ArcGIS Enterprise deployment.</p>	<h3>Customize your portal</h3> <p>Design your home page, manage licenses for ArcGIS apps, and add users and groups.</p>	<h3>Bring your own data</h3> <p>Register your on-premises and cloud data stores.</p>	<h3>Share maps and apps</h3> <p>Use demographic analysis, smart mapping, and share a web app from your portal.</p>	<h3>Collaborate</h3> <p>Share feature layer data as copies from one portal to another.</p>
<a href="#">Watch now</a>	<a href="#">Learn more</a>	<a href="#">Learn more</a>	<a href="#">Start the lesson</a>	<a href="#">Learn more</a>

[enterprise.arcgis.com](https://enterprise.arcgis.com)

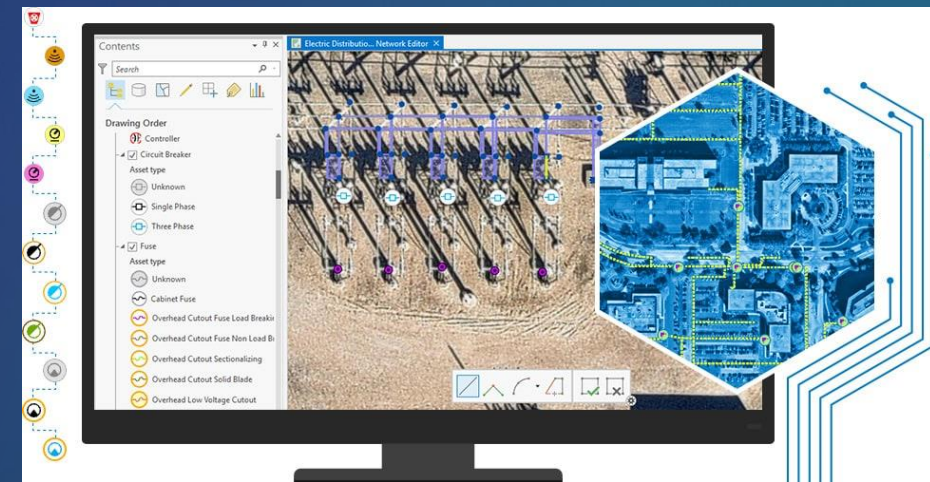


# Supported Apps and New Product Releases

- Workforce for ArcGIS - 10.5.1
- Operations Dashboard for ArcGIS - 10.6
- Ortho Maker - 10.6.1



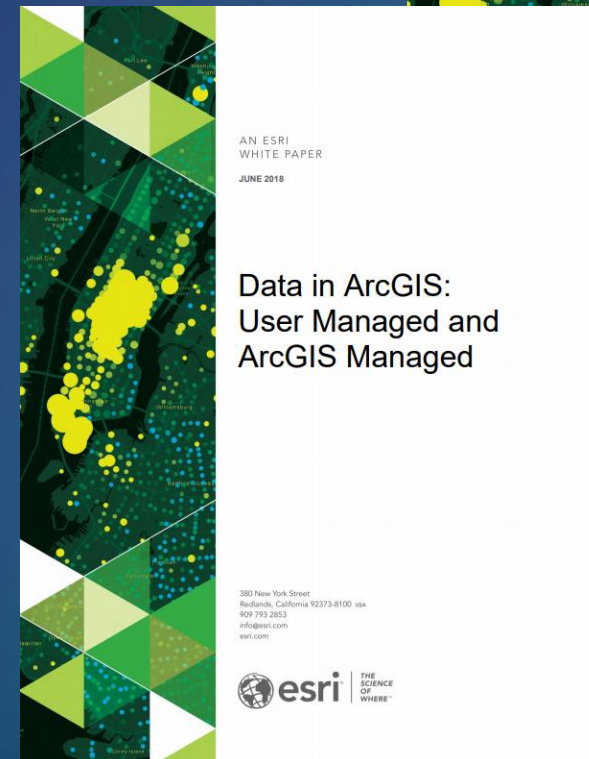
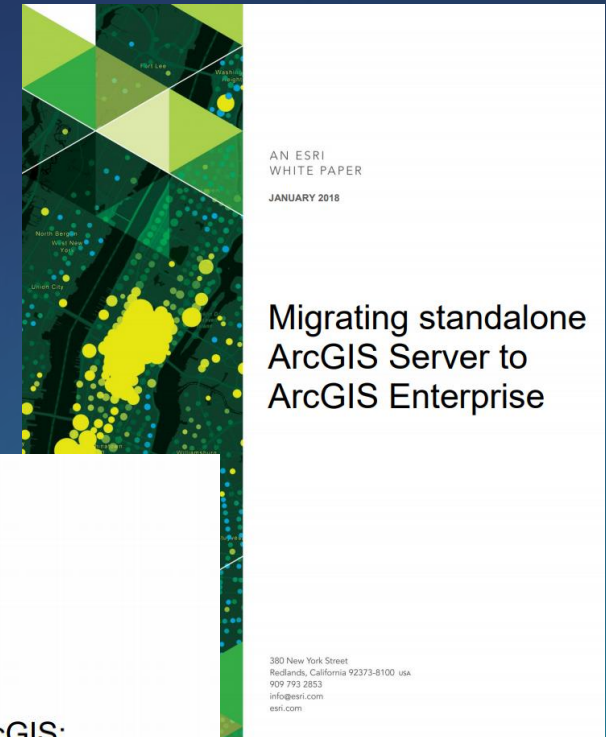
ArcGIS Monitor - 10.6



ArcGIS Utility Network Management extension - 10.6

# Additional Resources

- Migrating to ArcGIS Enterprise whitepaper
- Data in ArcGIS whitepaper (brand new!)
- Architecting your Deployment slide doc
  
- Next week look for blogs and videos on 10.6.1
- Twitter: @ArcGISXprise



Thank you!

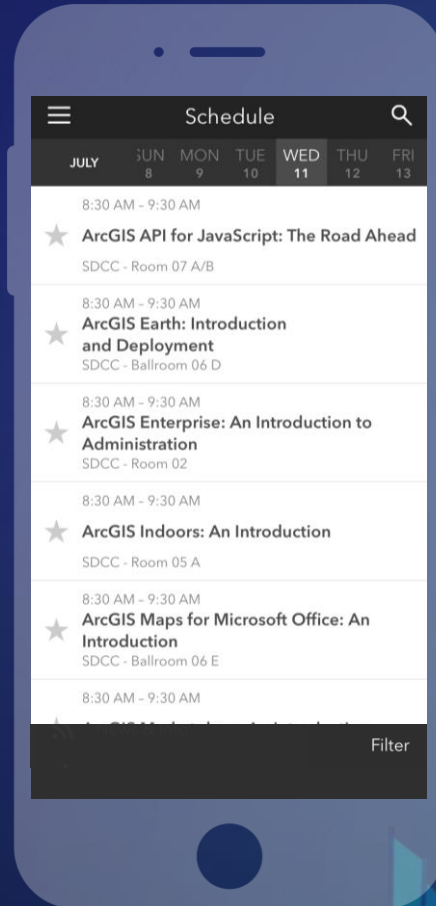
The background features a dark blue gradient on the left that transitions into a lighter teal on the right. In the bottom right corner, there is a complex, abstract composition of overlapping geometric shapes, including rectangles and lines, in various shades of blue, teal, and light green. Some of these shapes have thin, bright orange or yellow lines running through them, creating a sense of depth and movement.

# Please Take Our Survey on the App

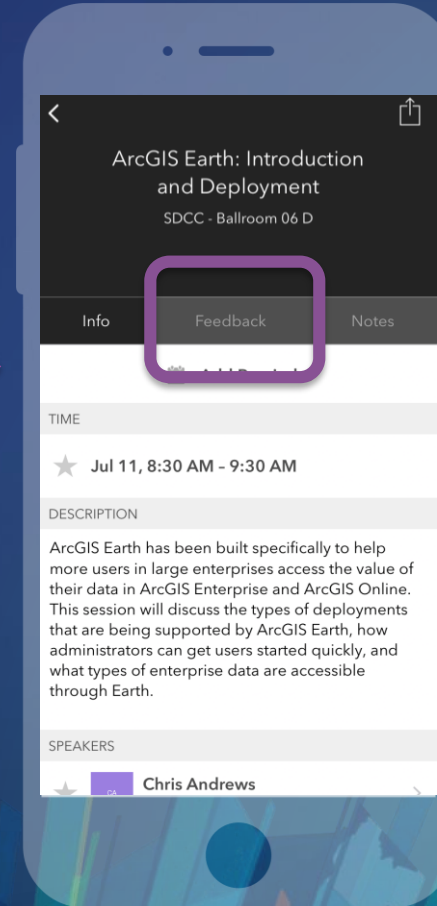
Download the Esri Events app and find your event



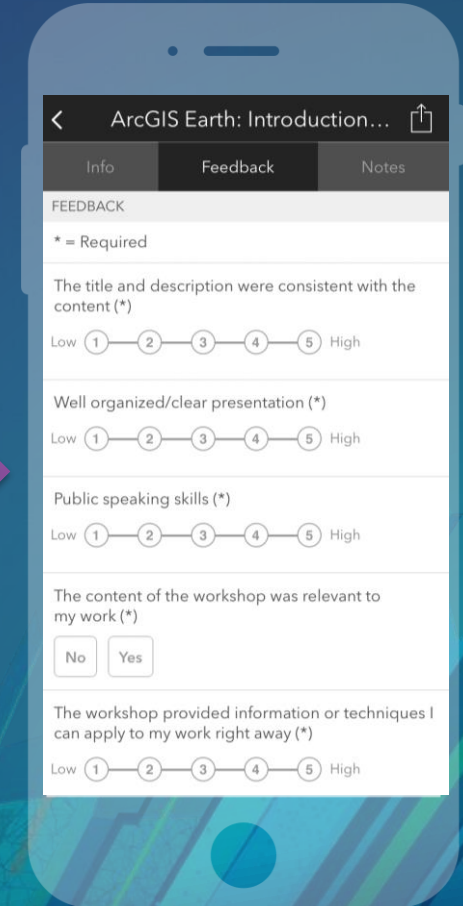
Select the session you attended



Scroll down to find the feedback section



Complete answers and select "Submit"





**esri**

**THE  
SCIENCE  
OF  
WHERE**