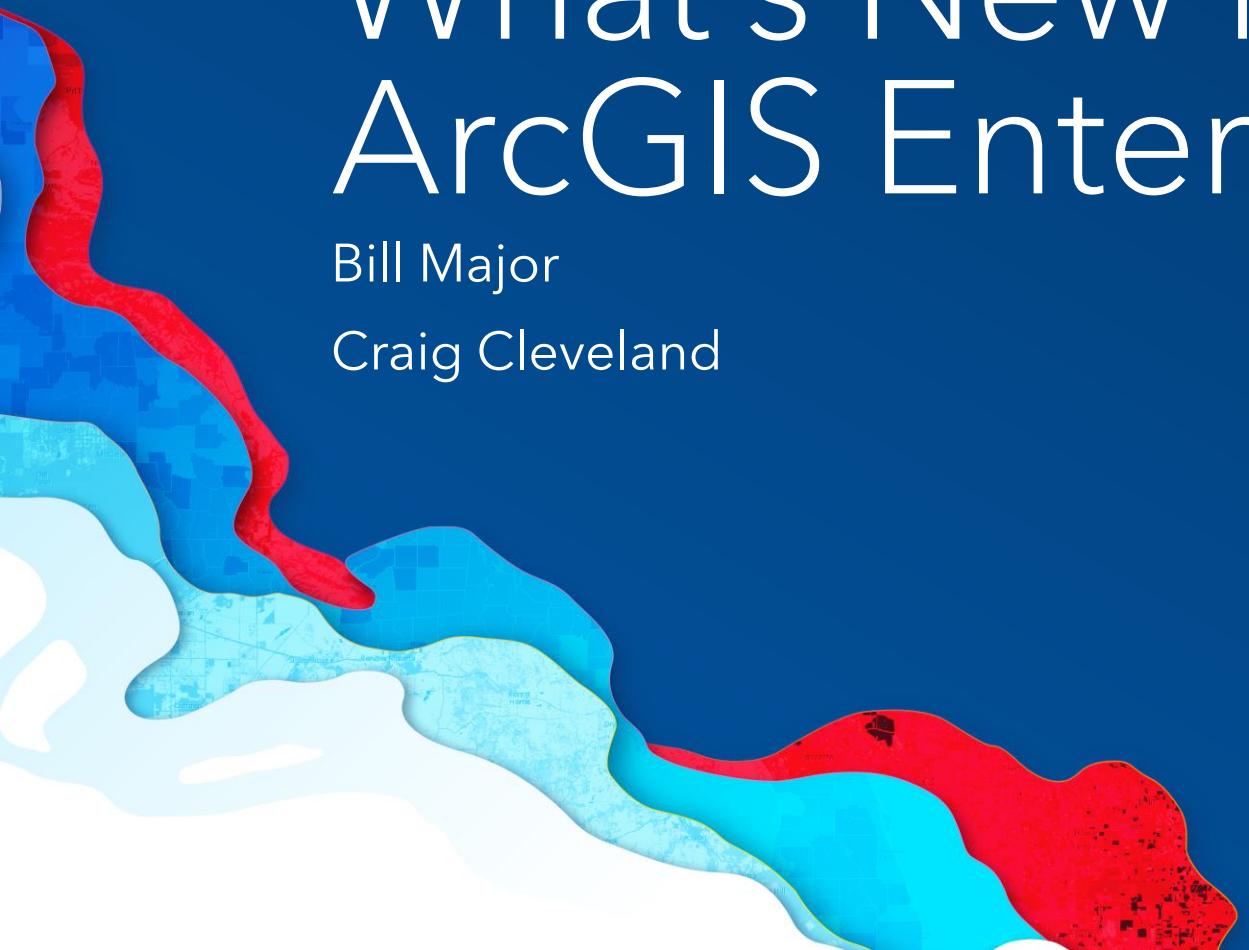
What's New in ArcGIS Enterprise

Bill Major

Craig Cleveland

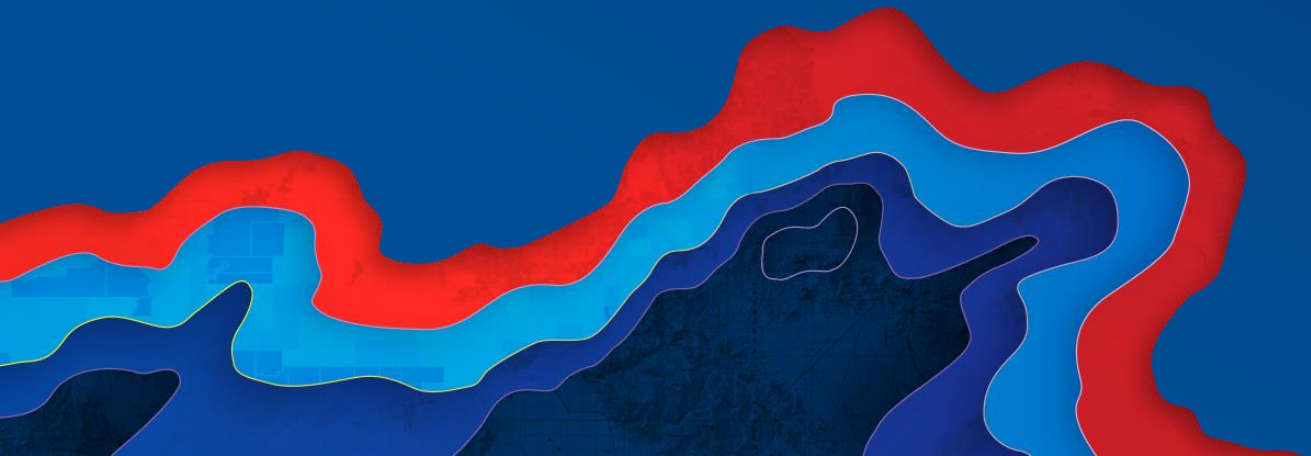


2018 **Esri Federal GIS Conference** | Washington, DC

Agenda

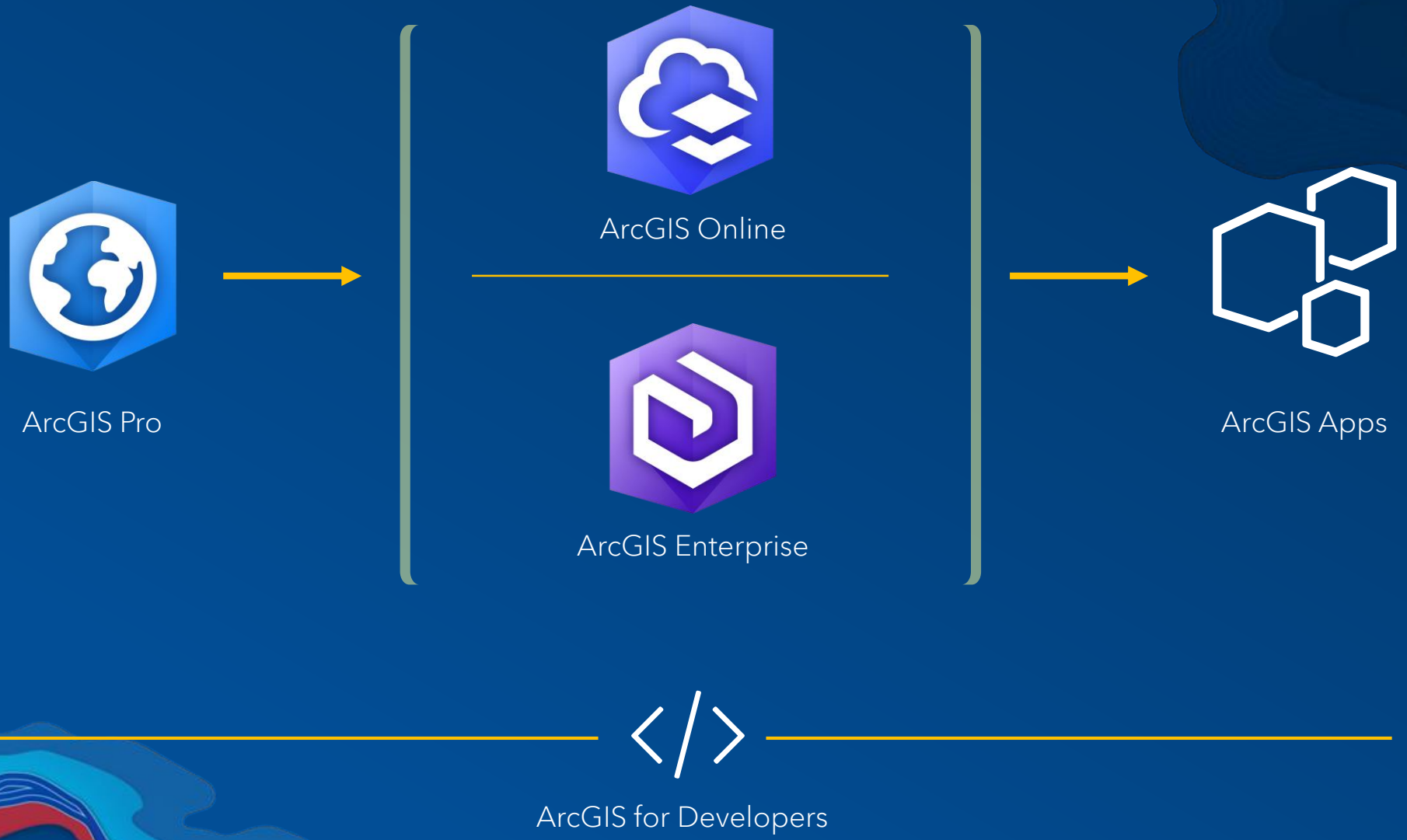
- Overview of ArcGIS Enterprise
- New in administration
- New in publishing
- New in analysis

Overview



ArcGIS Enterprise is a full-featured mapping, analytics and data management platform that runs on infrastructure you control, enabling you to visualize, interpret, and act upon your location-based data.

Contemporary ArcGIS platform



Components of ArcGIS Enterprise

ArcGIS Server

Portal for ArcGIS

ArcGIS Data Store

ArcGIS Web Adaptor

Relational | Tile Cache | Spatiotemporal

Patterns of Use and ArcGIS Enterprise

Mapping & Visualization

Data Management

Field Mobility

Monitoring

Analytics

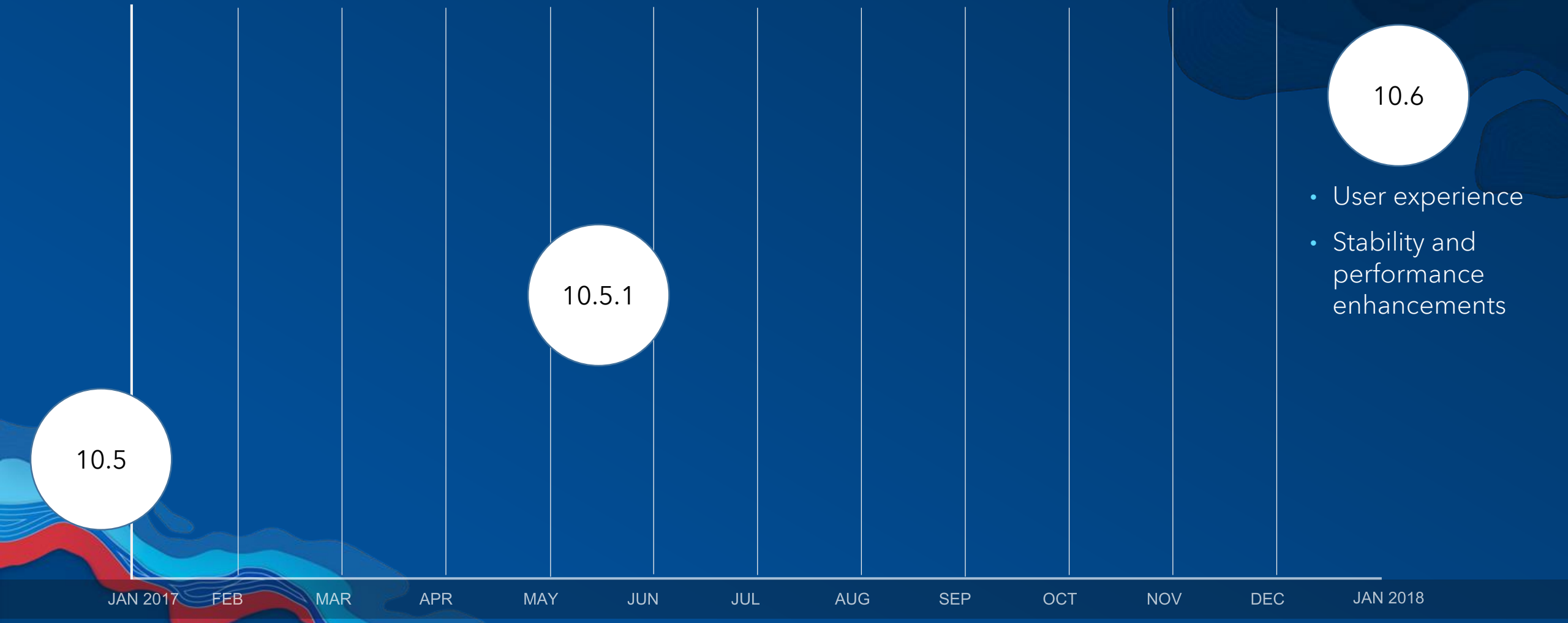
Design & Planning

Decision Support

Constituent Engagement

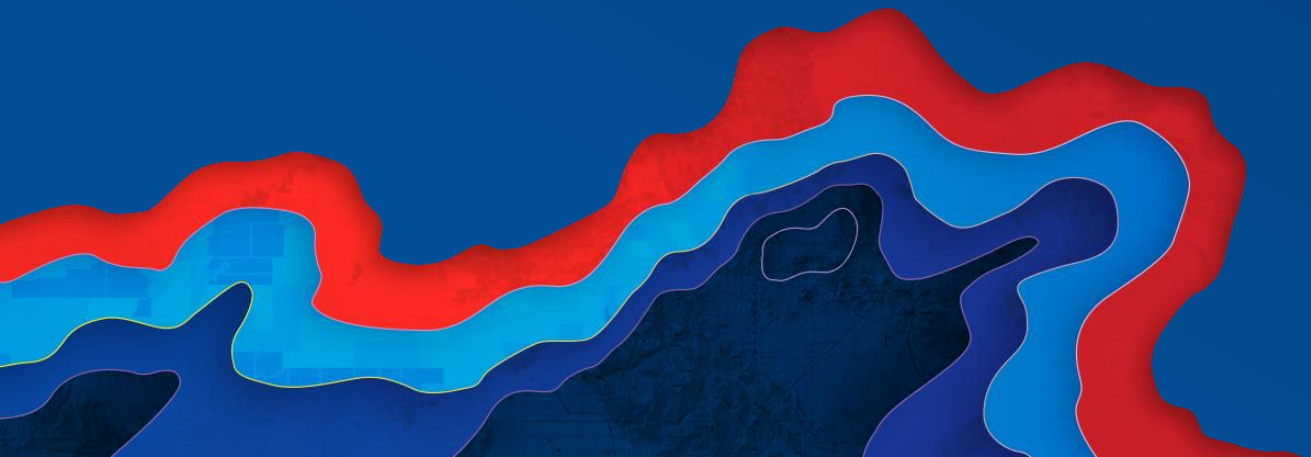
Sharing & Collaboration

Recent ArcGIS Enterprise Releases

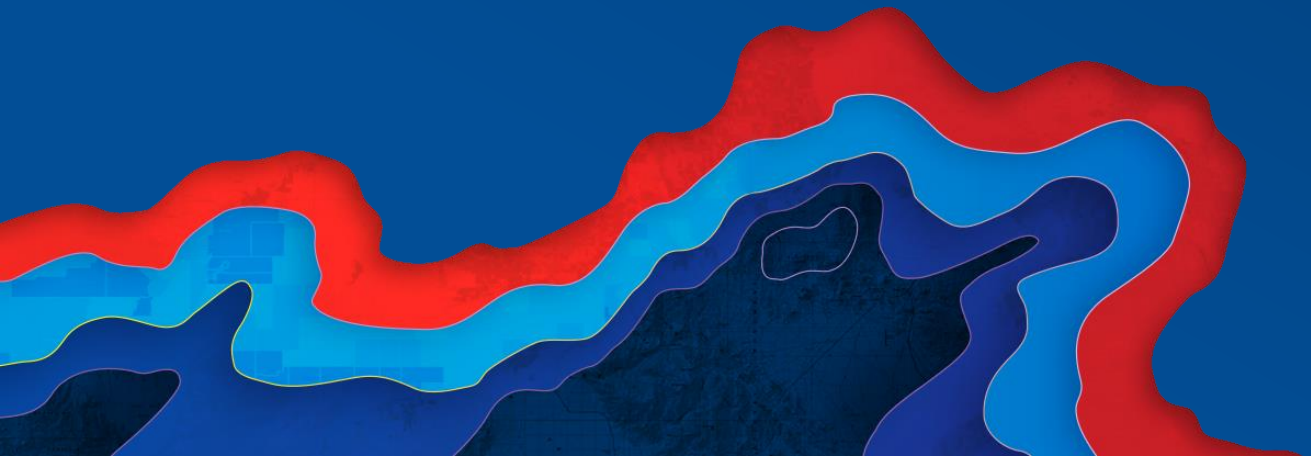


- User experience
- Stability and performance enhancements

What's New



Named User Licensing

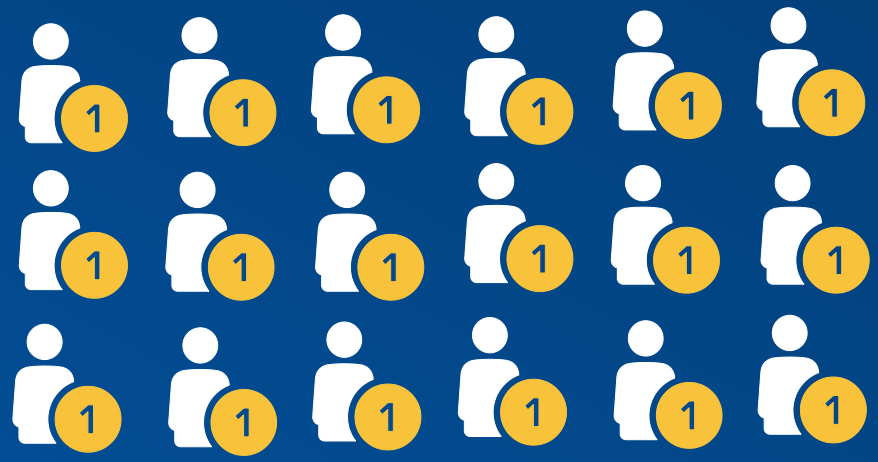


Named User Levels

- 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

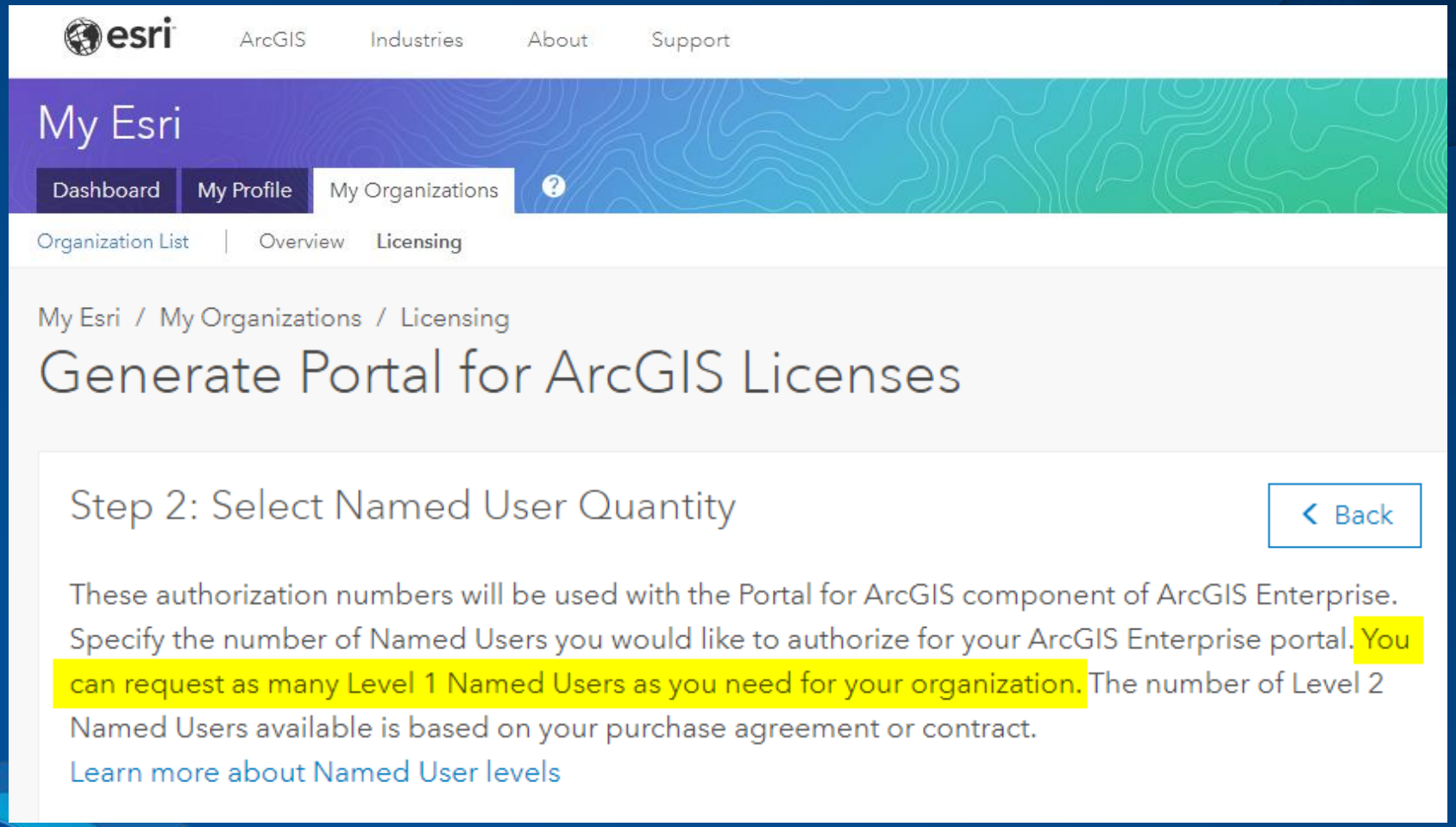
Announcing No-Cost Level 1 Named Users



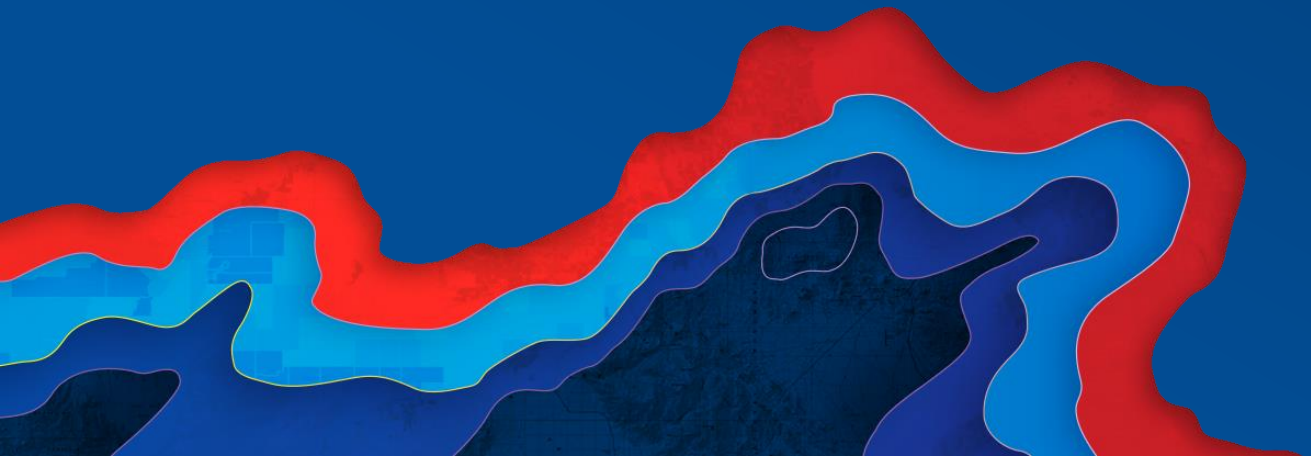
Announced December 2017
Effective January 1, 2018

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

Announcing No-Cost Level 1 Named Users



Deploying & Upgrading



ArcGIS Enterprise Builder

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

Chef

Machine Images

ArcGIS Server

New command line utilities

- Use the createsite command line utility to create a new ArcGIS Server site. The utility takes in arguments to automate site creation through an interactive mode or from a property file.

- When upgrading an ArcGIS Server site, you can now use the upgradeserver command line utility to silently upgrade

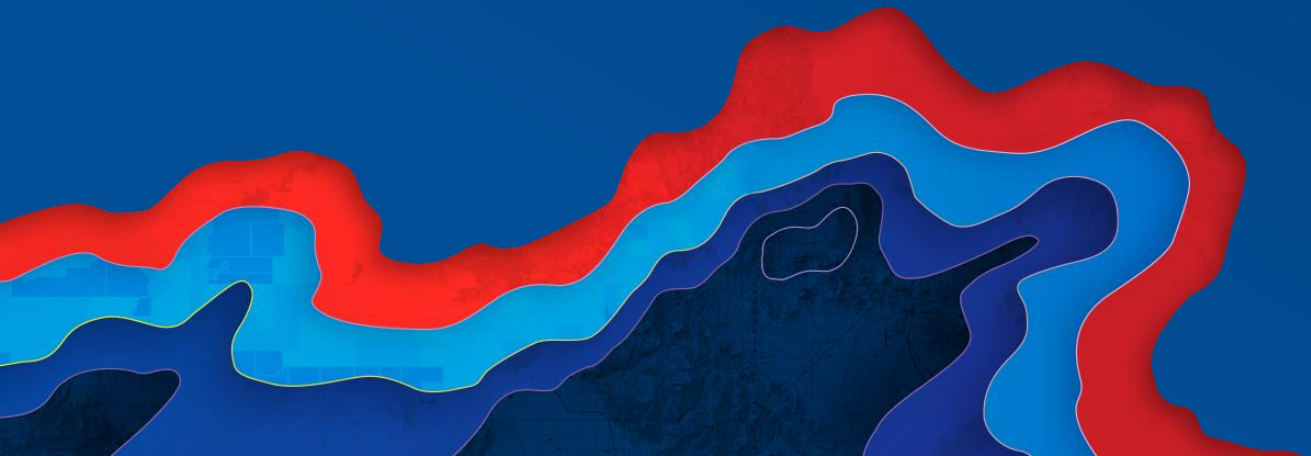
Portal for ArcGIS

New command line utilities

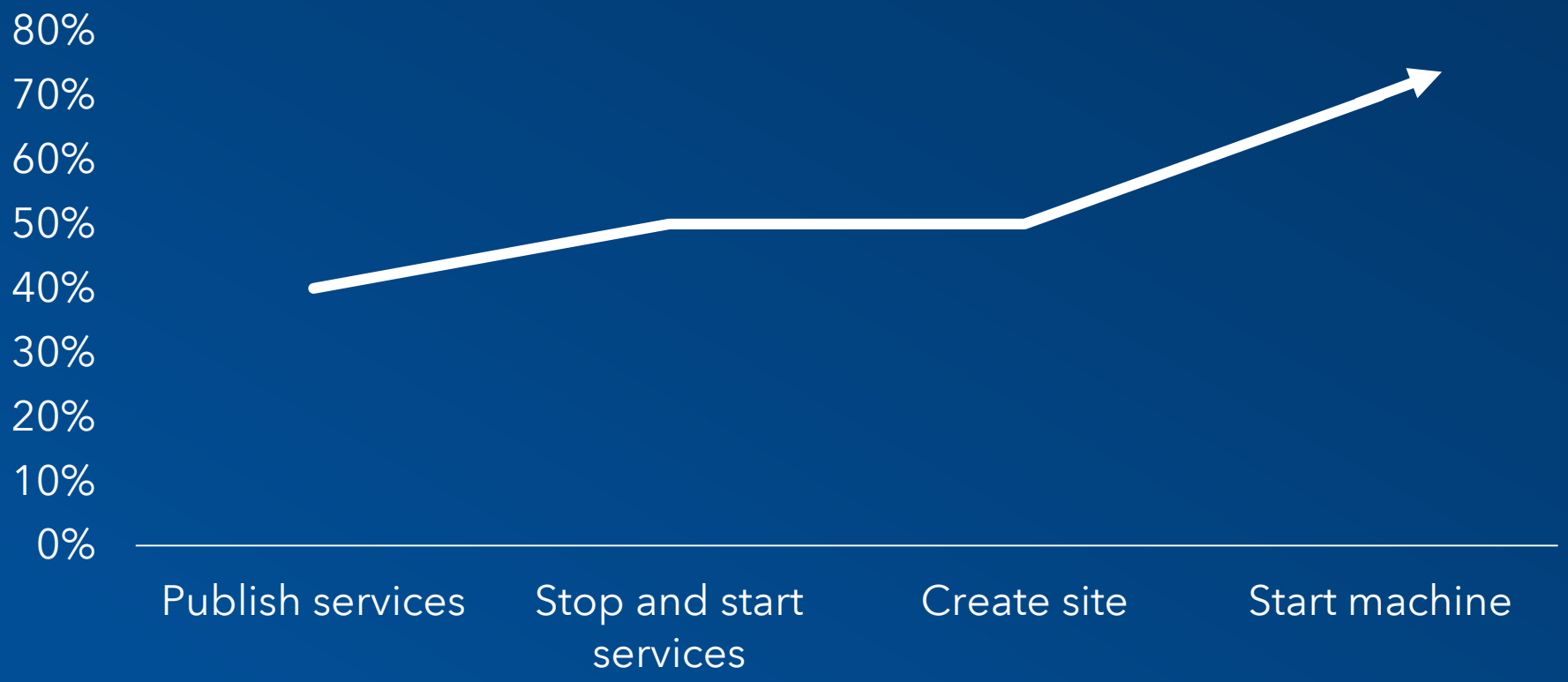
- Use the createportal command line utility to create a new Portal for ArcGIS. The utility takes in arguments to automate portal creation through an interactive mode or from a property file.

- When upgrading Portal for ArcGIS, you can now use the upgradeportal command line utility to silently upgrade

Performance Enhancements

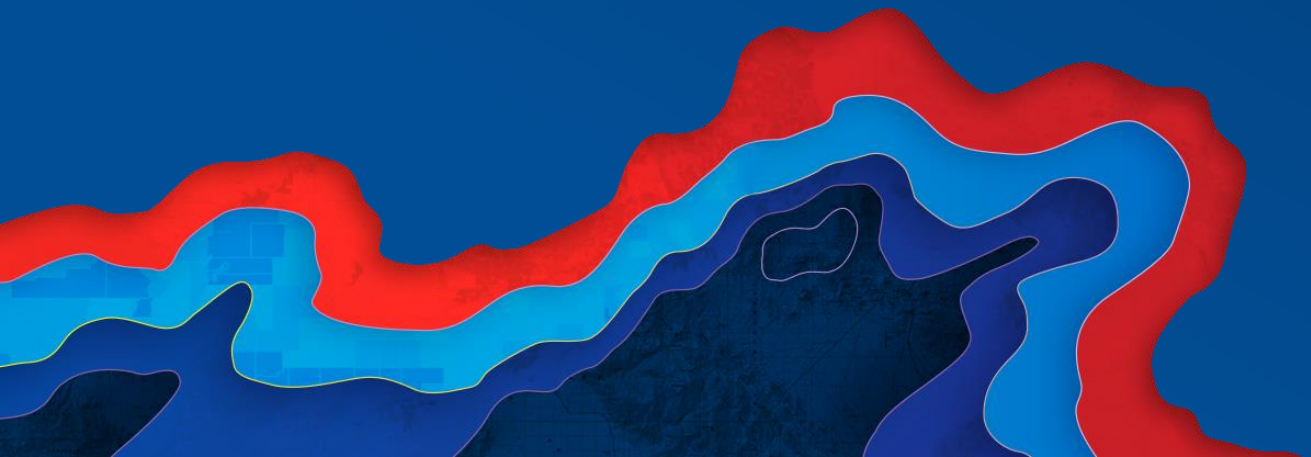


Faster response times for service management operations



Available for all new sites and upgraded sites that contain a single cluster

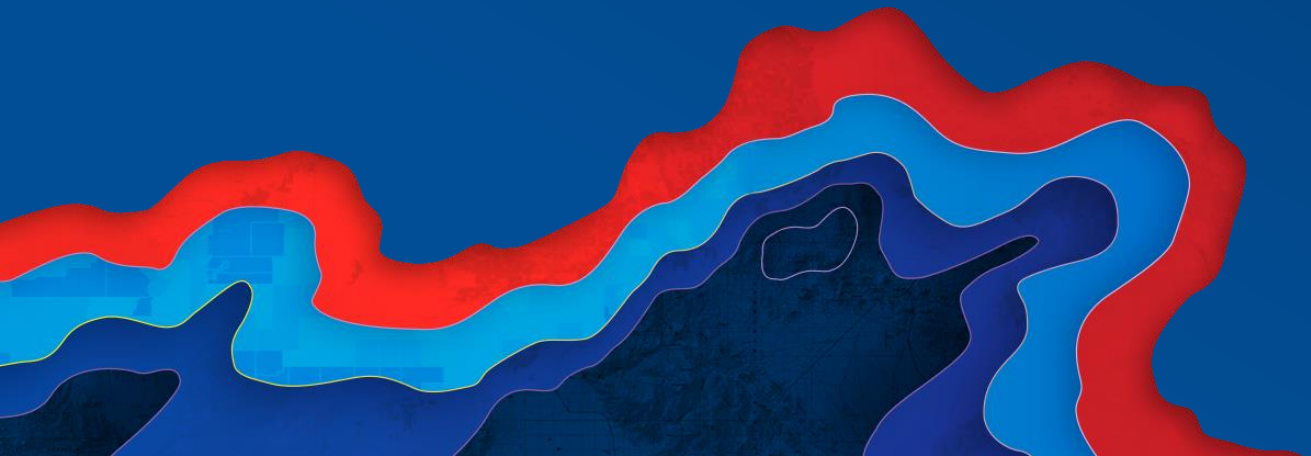
Caching



Support for caching in cloud stores

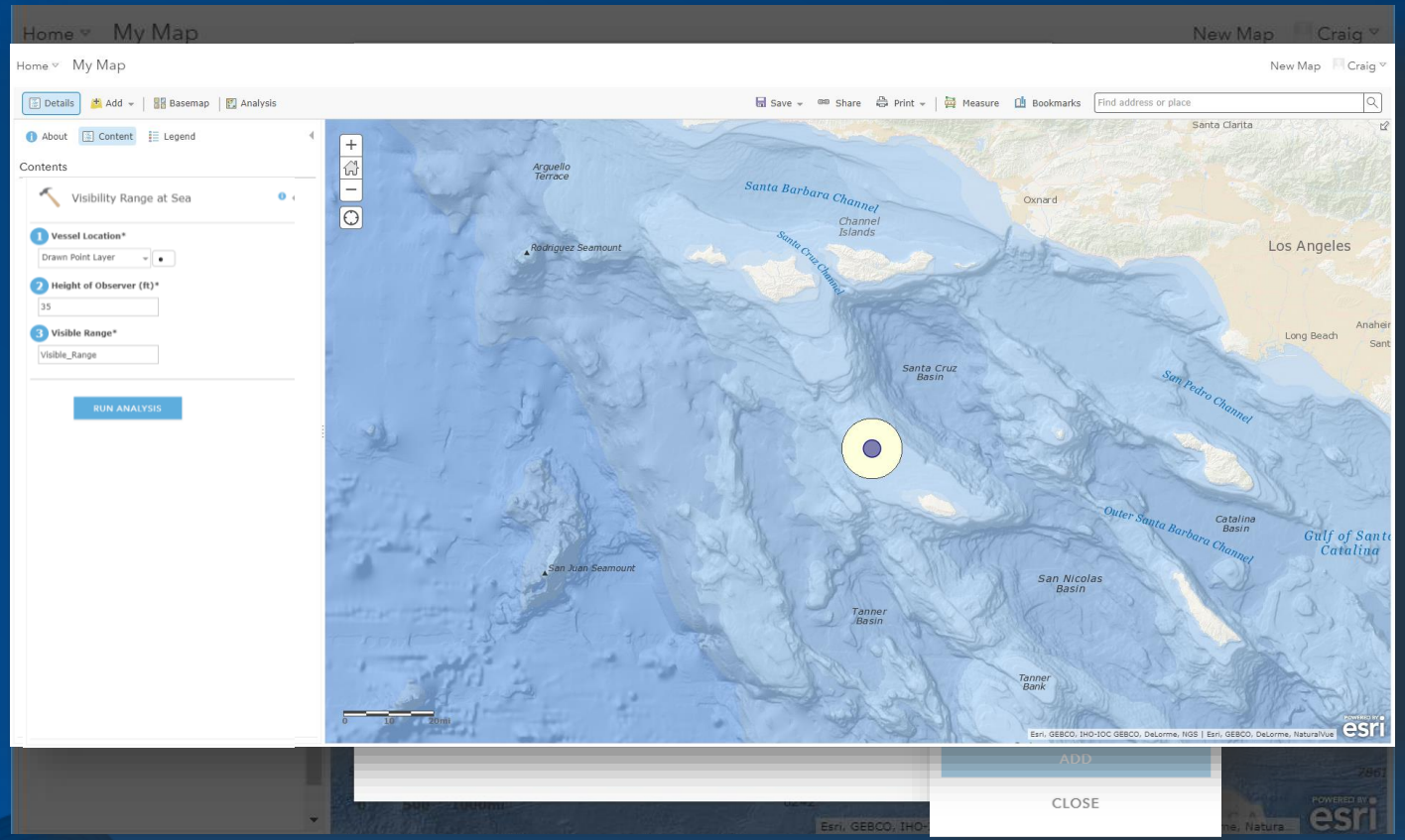
- Create and manage caches in Amazon S3 and Azure blob storage cloud store directories

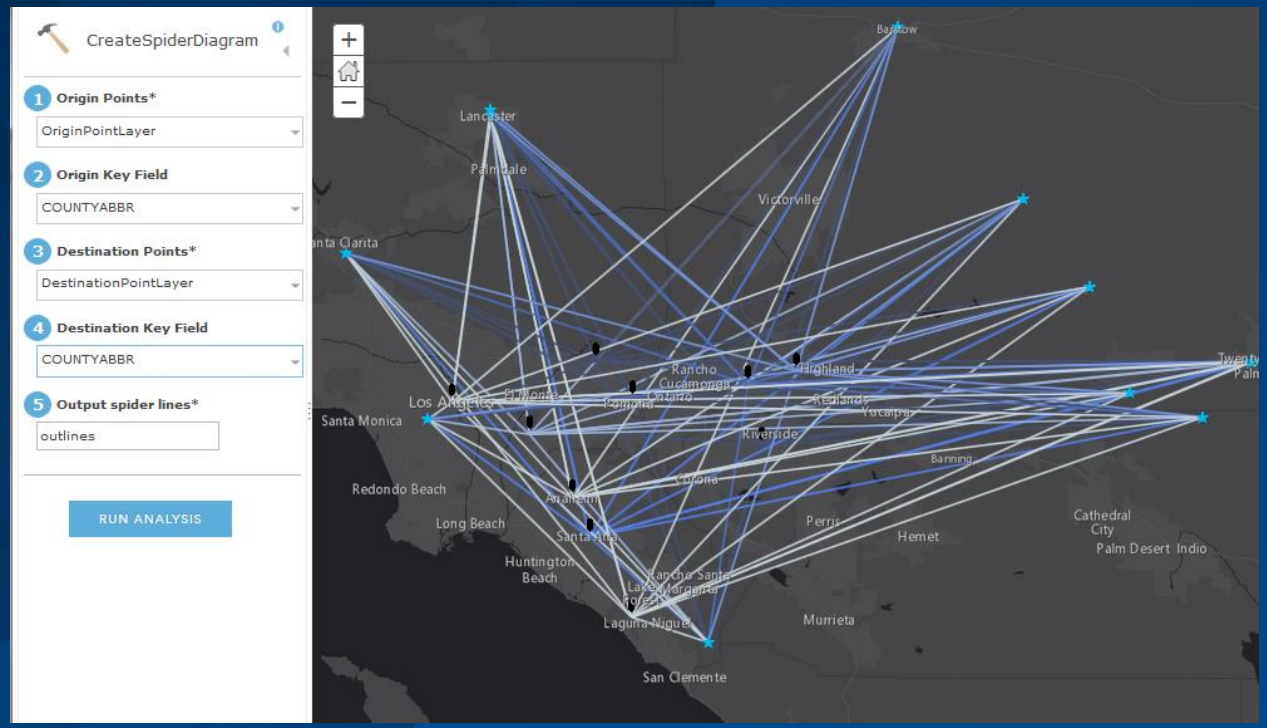
Custom Web Tools



Custom Web Tools

- Custom geoprocessing services published as web tools can now be executed from the Map Viewer

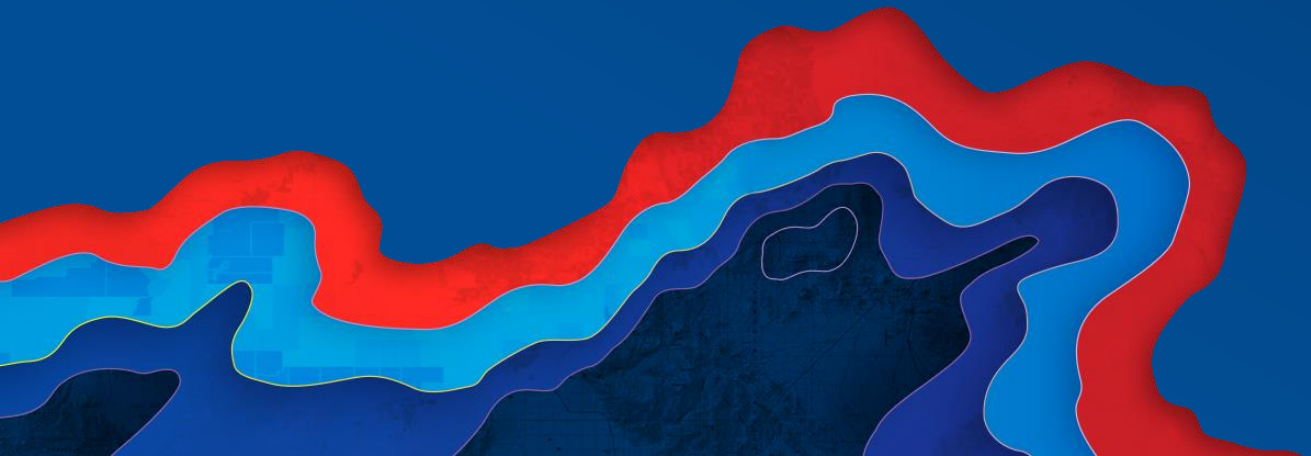




Custom Web Tools

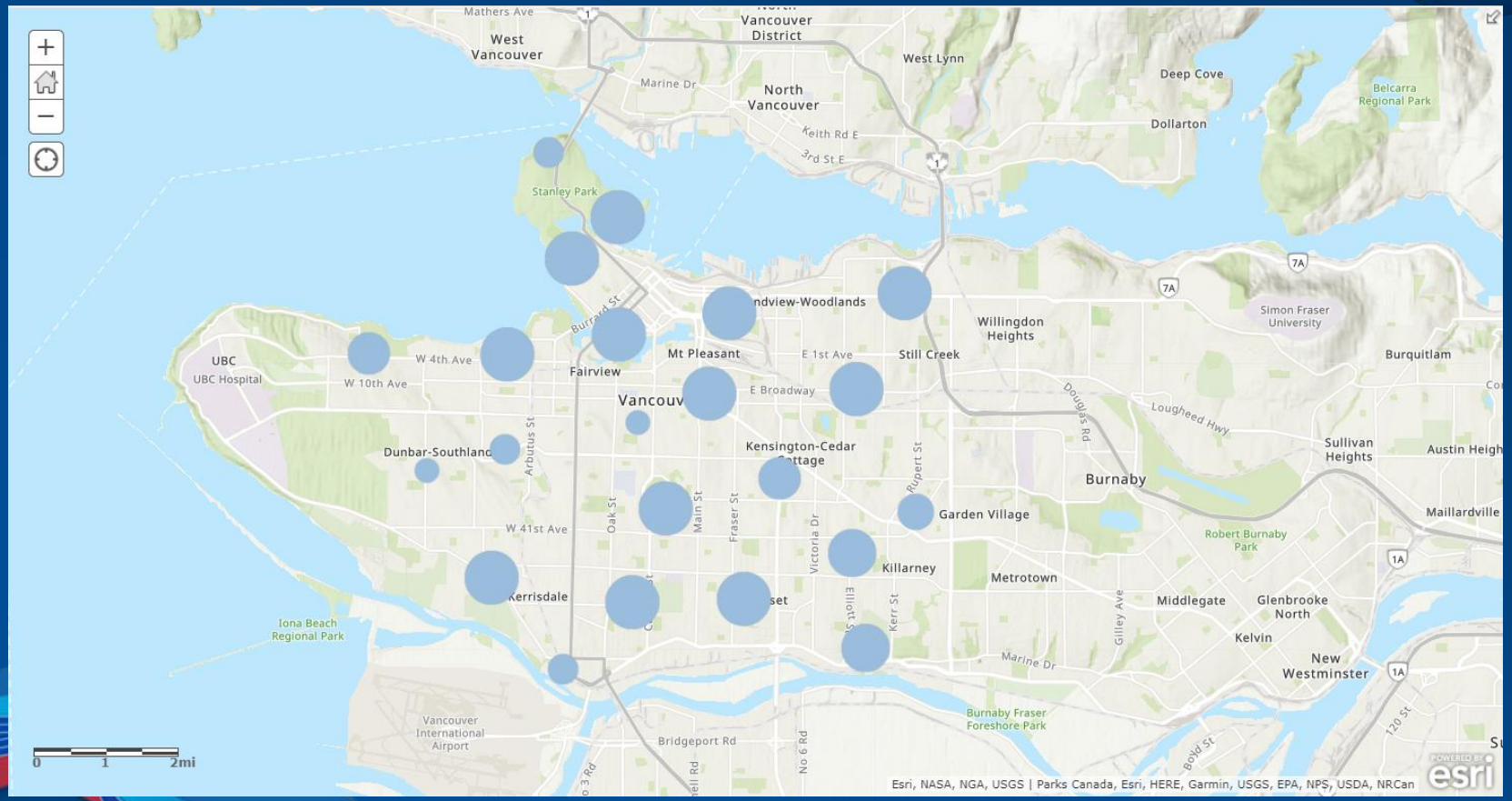
Demo

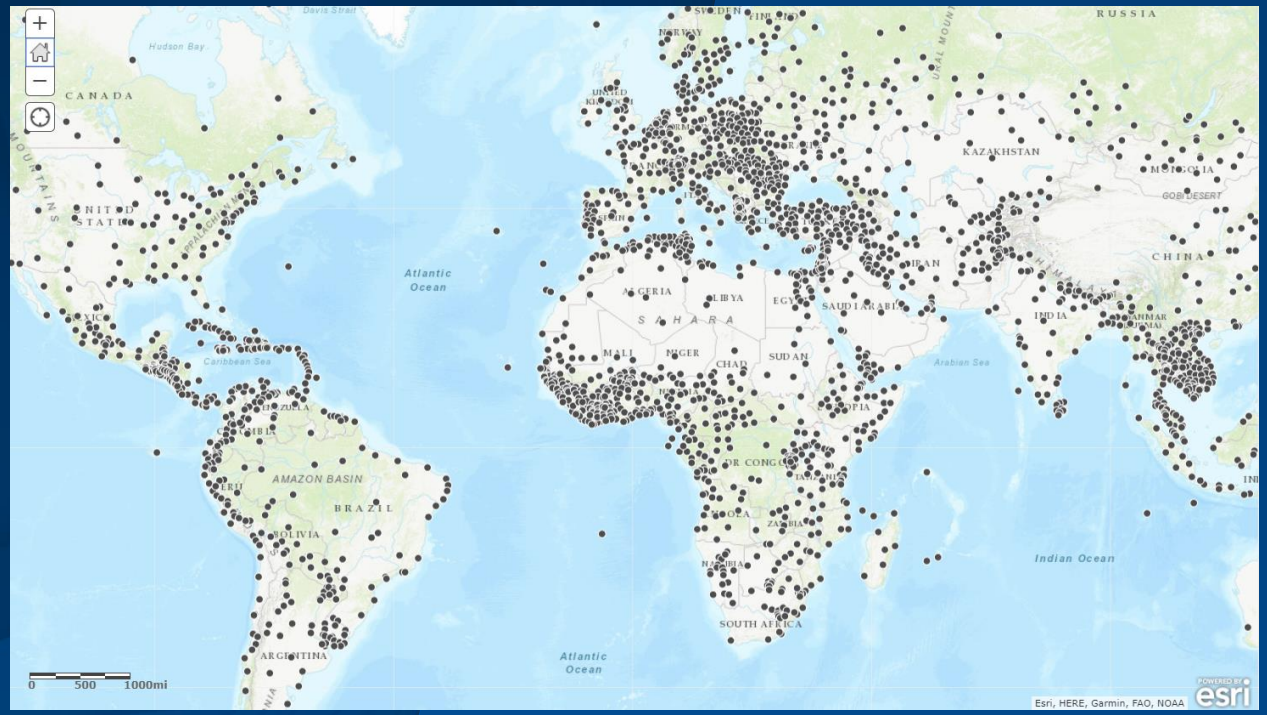
Point Clustering



Point Clustering

- Visually extract meaningful information from your point data
- Group point features in close proximity into one symbol

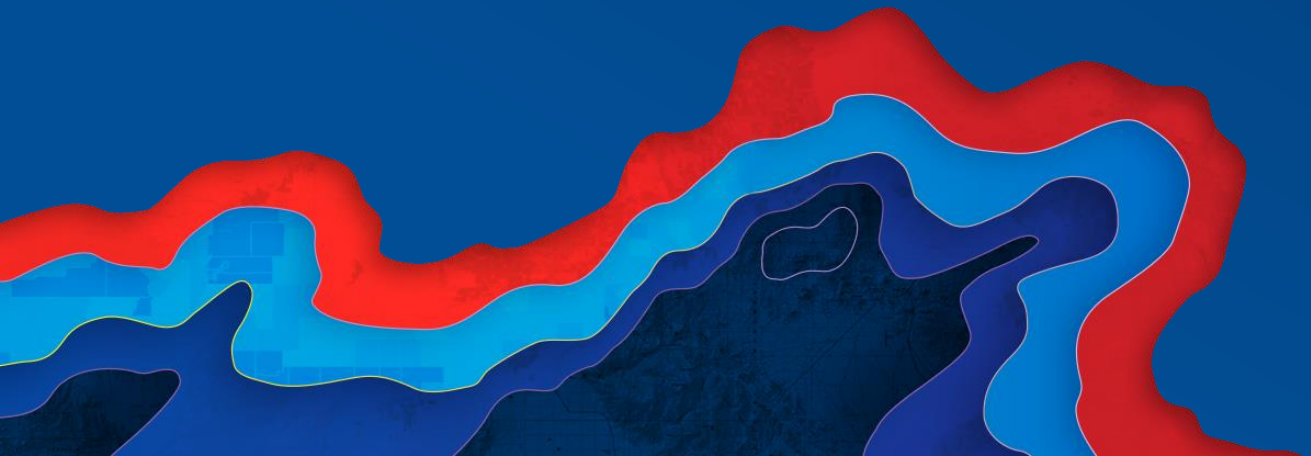




Point Clustering

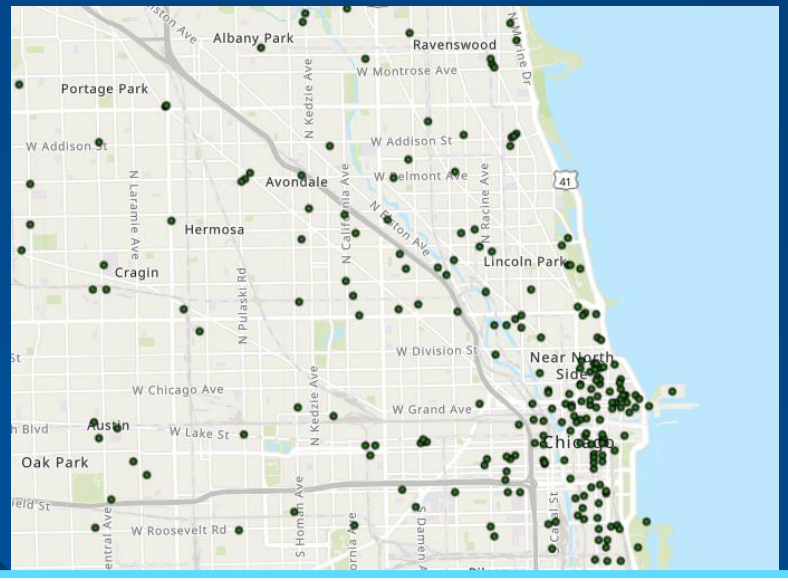
Demo

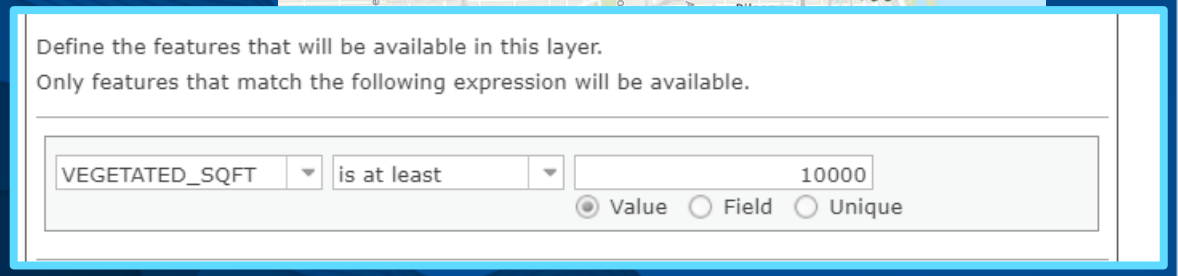
Hosted Feature Layer Views



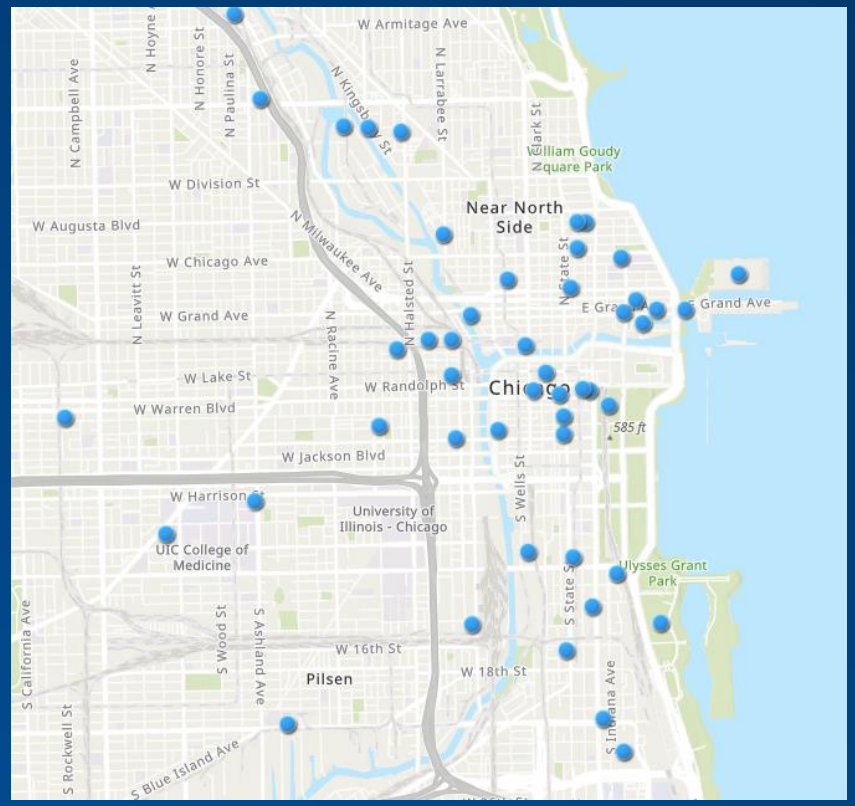
Hosted Feature Layer Views

- Apply different styles, editor settings, feature and/or field definitions
- Control user access to the view by sharing to different groups than the source

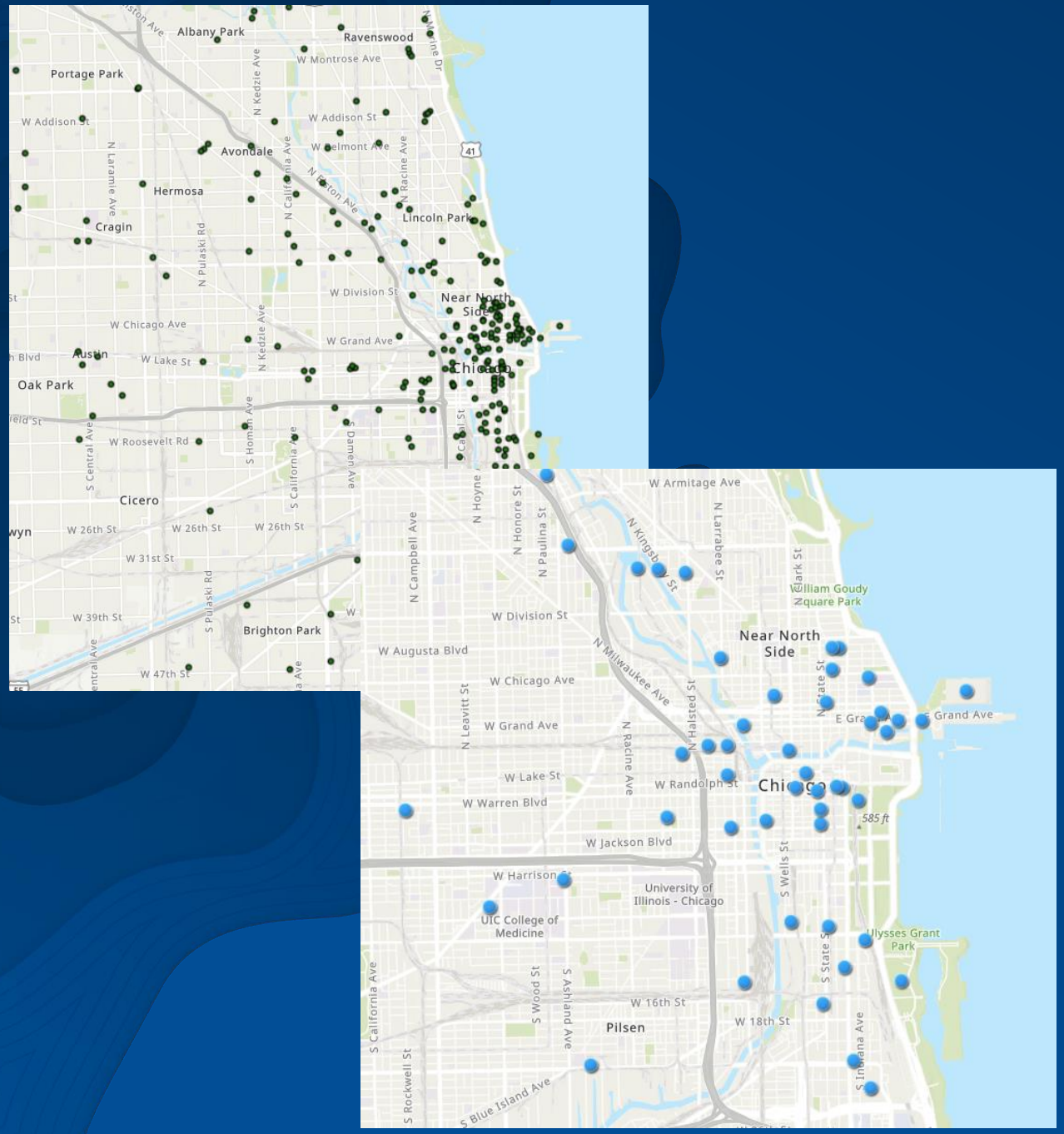




Source: read-only



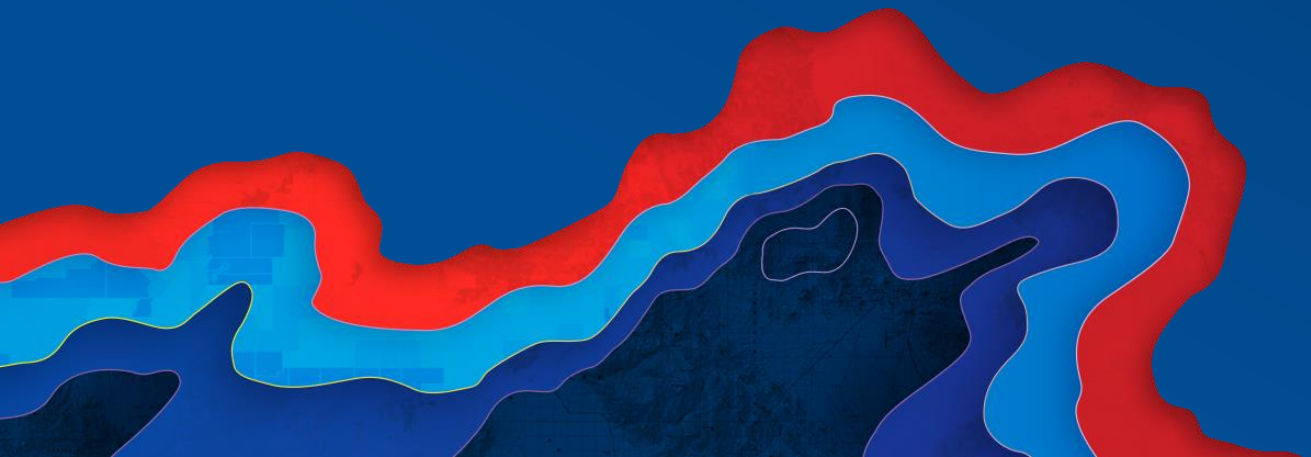
View: editable



Hosted Feature Layer Views

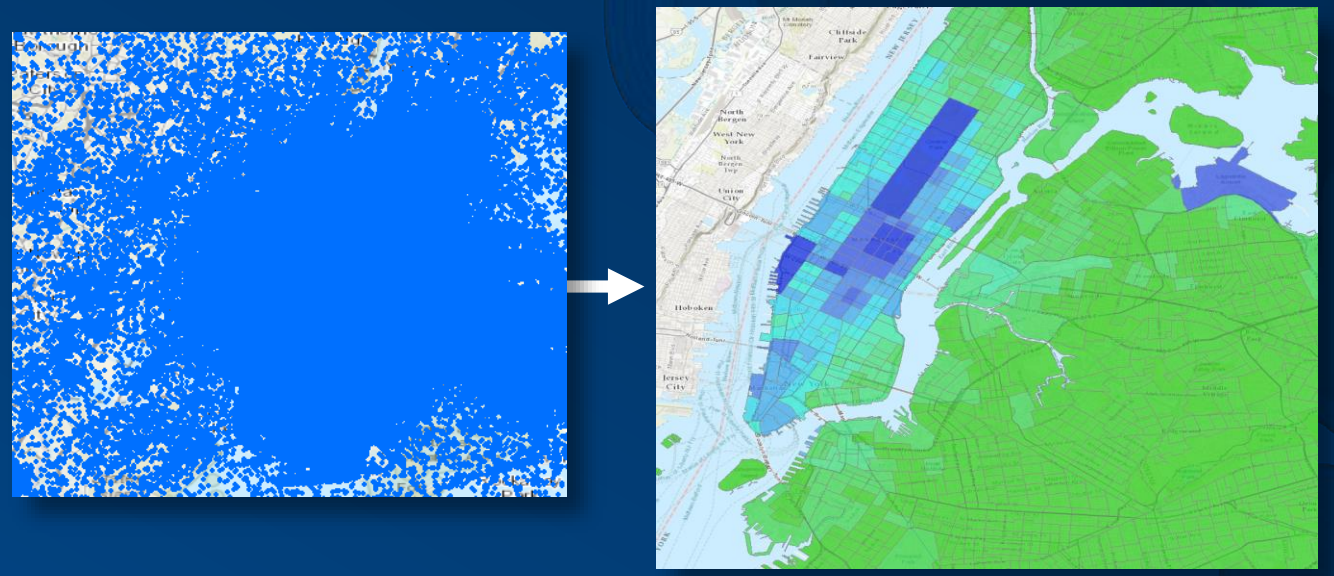
Demo

New GeoAnalytics Tools



GeoAnalytics

Process large volumes of vector and tabular data, reducing your workflow from days, weeks and months to hours and minutes.



Detect Incidents

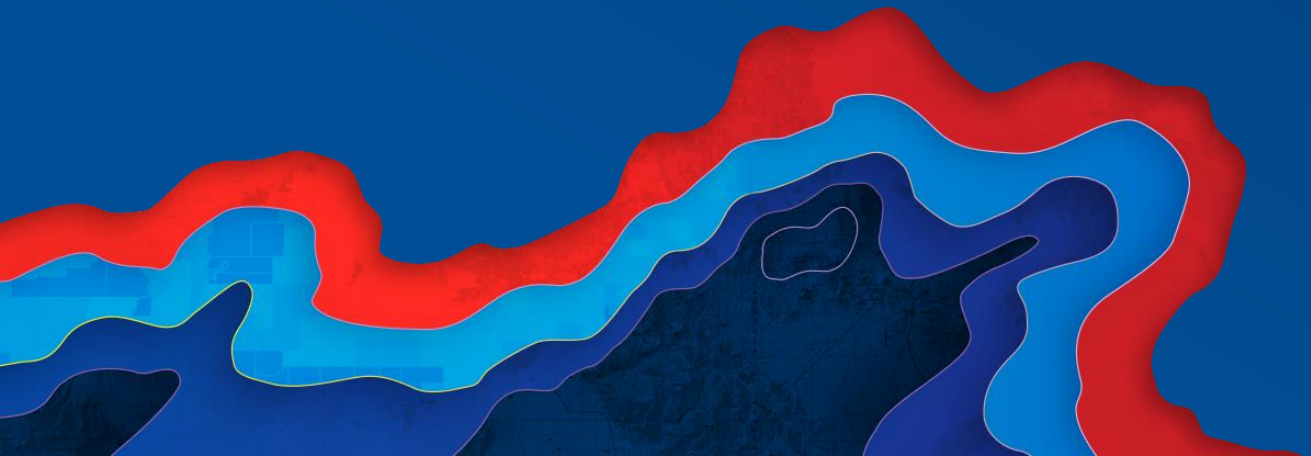
Calculate Fields

```
#-------------------------------------------------------------------------------
# Name: CalculateField.py
# Description: Calculate the mean of the 3 most recent speed measurements in hurricane tracks

# Requirements: ArcGIS GeoAnalytics Server

# Import system modules
import arcpy

# Set local variables
inFeatures = "https://sampleserver6.arcgisonline.com/arcgis/rest/services/Hurricanes/MapServer/
newField = "MeanSpeed3"
outFS = "HurricaneTracks_Mean"
trackIdentifier = "WINDSPEED"
calcExpression = "$track.field['WINDSPEED'].history(-3)"
```

Geocode Locations from Table

Read from ORC and Parquet files

Distributed Collaboration



What is Distributed Collaboration?

A way to share information and data with other organizations or deployments through a trusted environment.

…Extends beyond geographic & organizational boundaries.

…Allows teams to discover content as they work towards shared goals and initiatives.

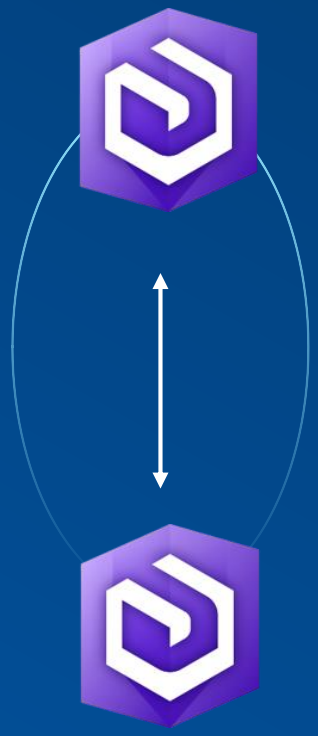
Individuals

Organizations

Networks of Organizations

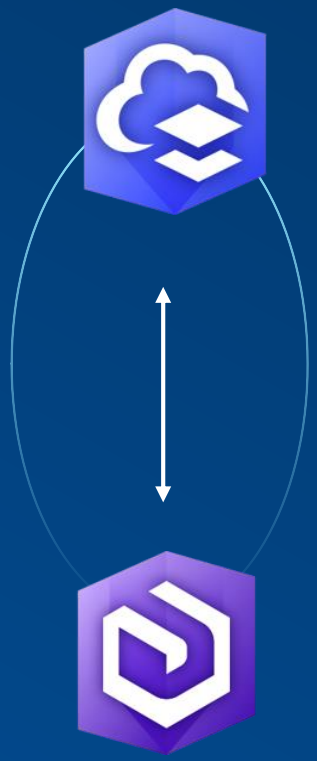
Evolution of Distributed Collaboration

10.5



- Services shared by reference

10.5.1



- Collaboration with ArcGIS Online

New at ArcGIS Enterprise 10.6

- Feature layers shared as copies between ArcGIS Enterprise

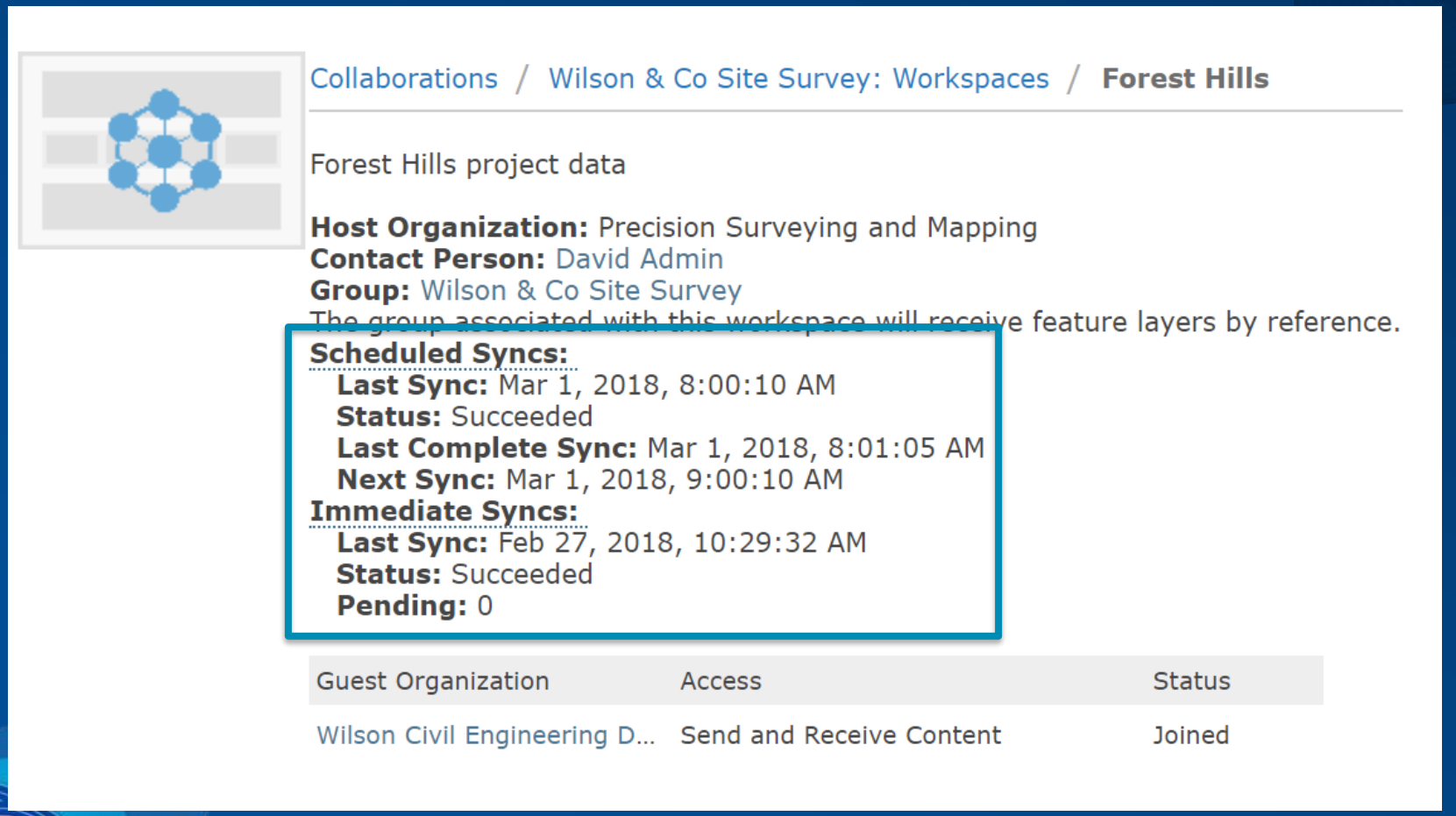
- Content deletion policy

New at ArcGIS Enterprise 10.6

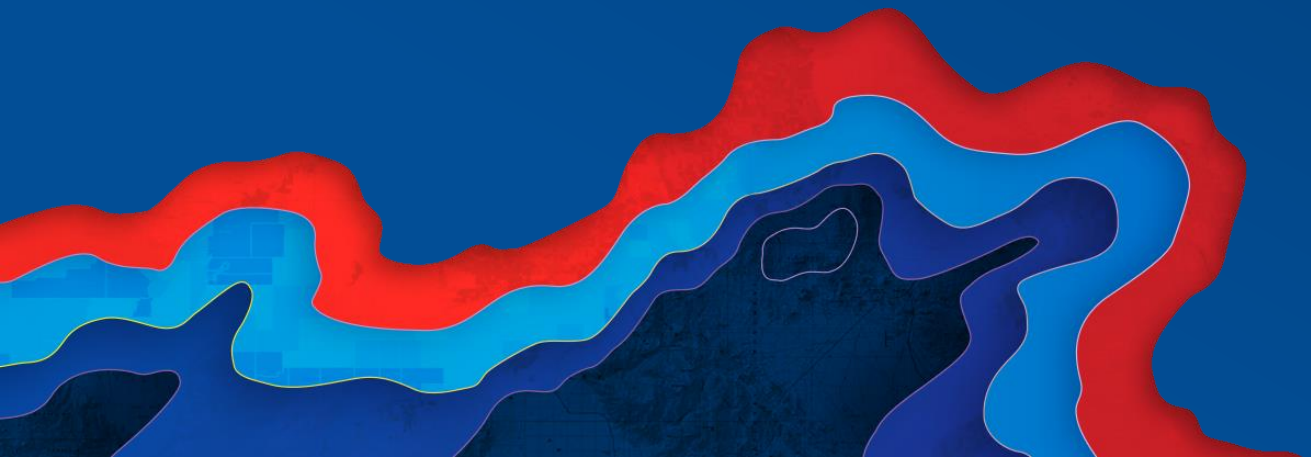
- Sync status reporting

When was my last completed sync?

When is my next sync scheduled?



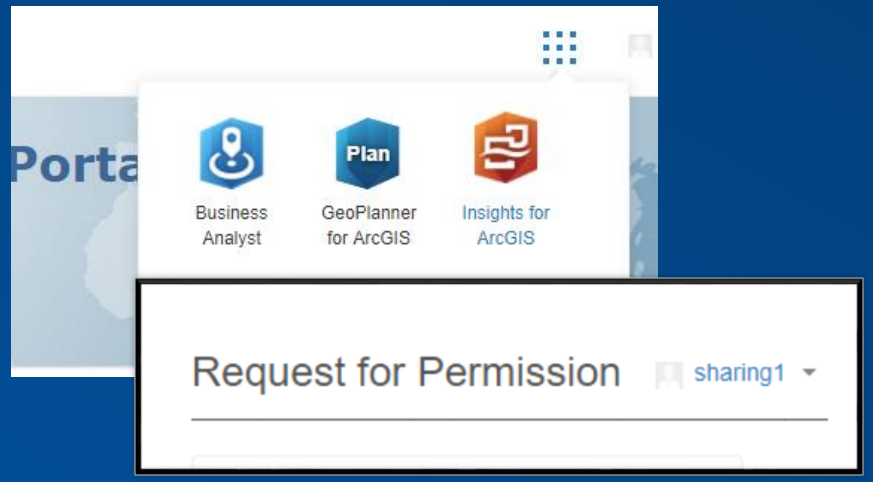
App Launcher

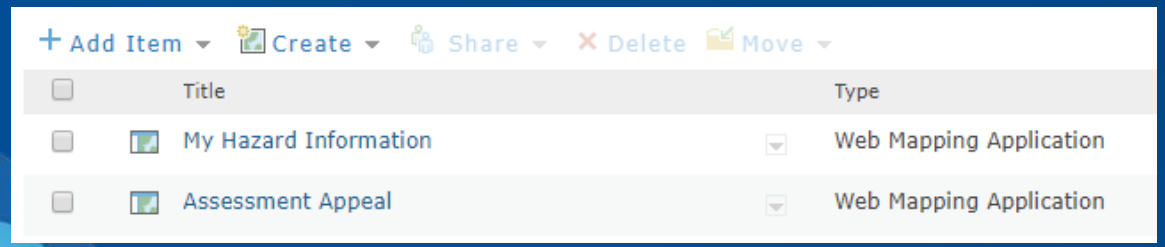


App Launcher

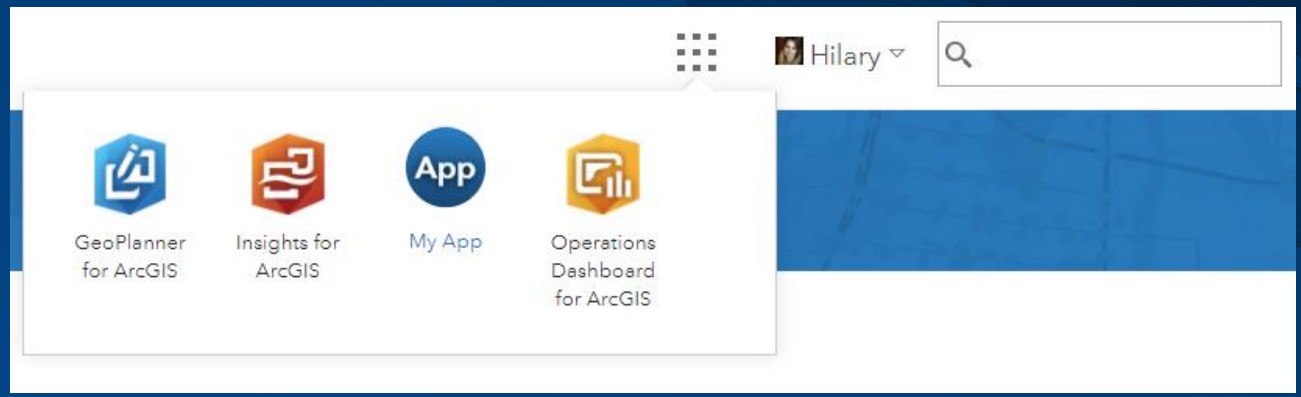
- Bookmark apps that are relevant to your organization in your Enterprise portal
- Allows for simple access to apps for your users
- “Request for permissions” not required

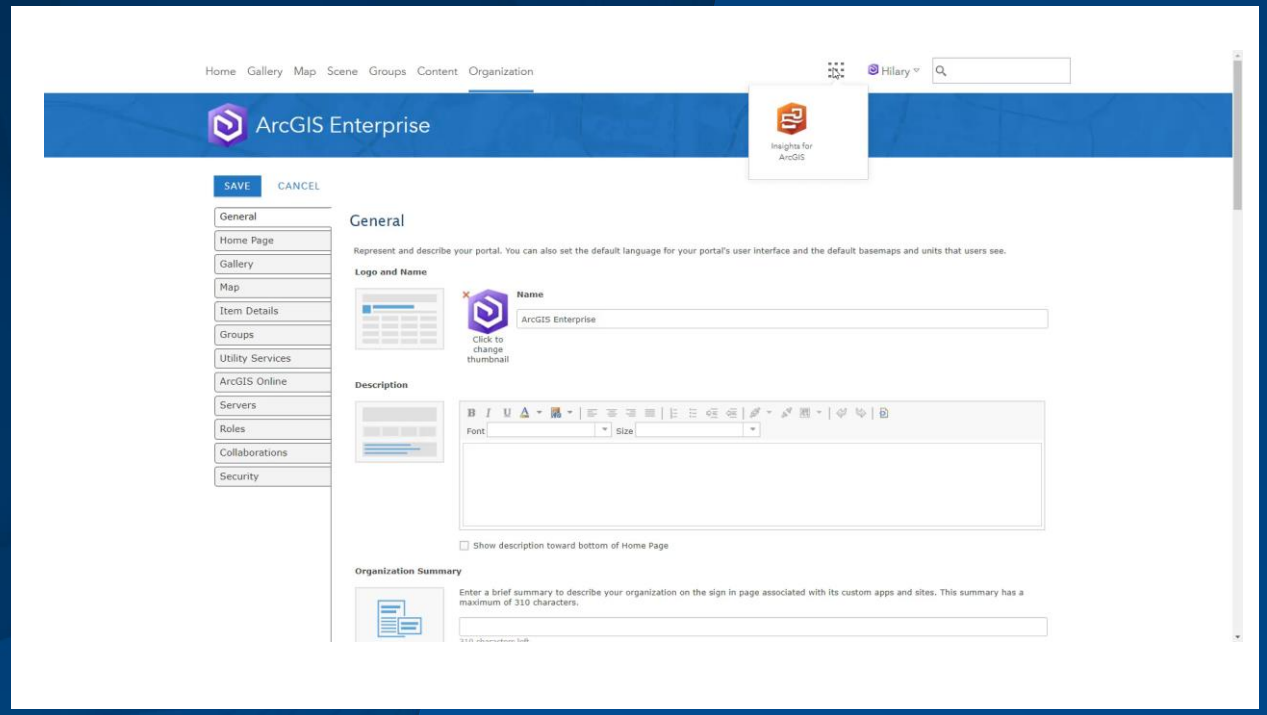
- From:


Porta
Business Analyst
Plan
GeoPlanner for ArcGIS
Insights for ArcGIS
Request for Permission
sharing1


Add Item
Create
Share
Delete
Move
Title
Type
My Hazard Information
Web Mapping Application
Assessment Appeal
Web Mapping Application

- To:

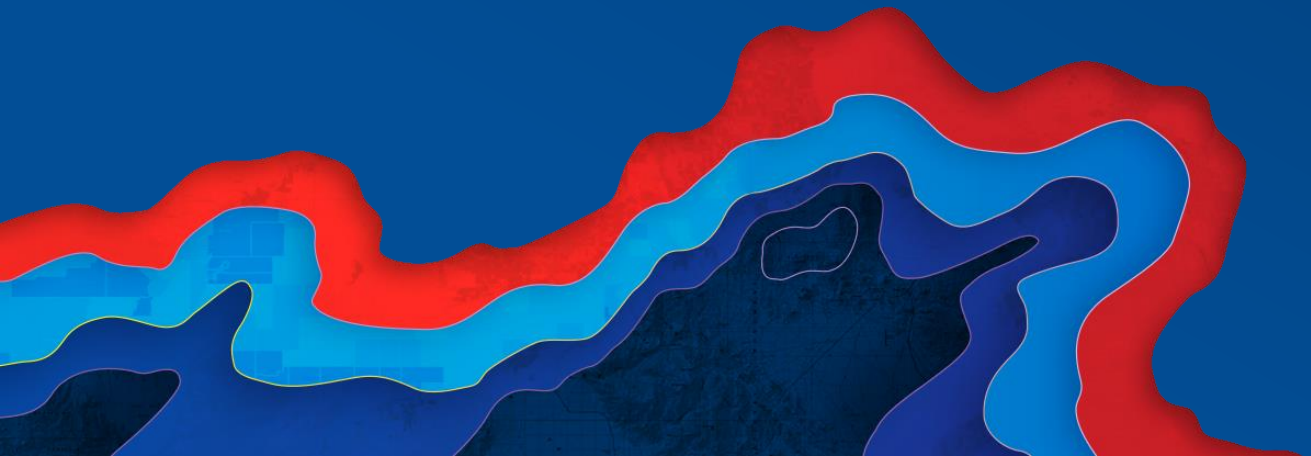

Hilary
GeoPlanner for ArcGIS
Insights for ArcGIS
App
My App
Operations Dashboard for ArcGIS



App Launcher

Demo

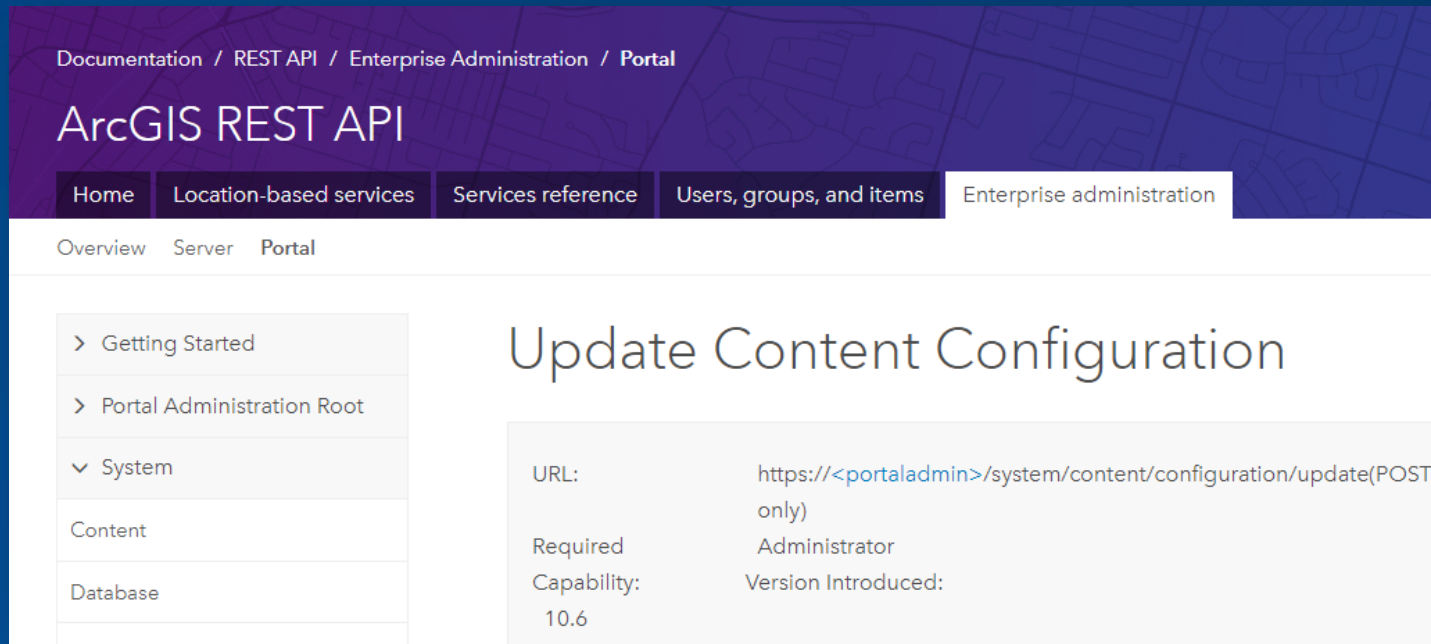
Disabling External Content



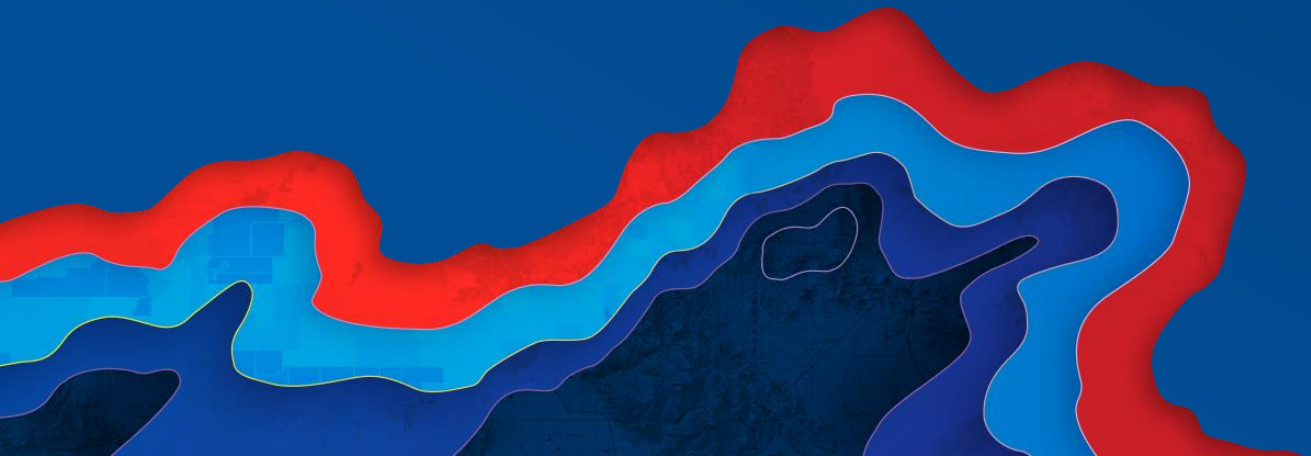
Disabling External Content

- This resource allows an administrator to enable or disable external content discovery from portal.

- Administrators may choose to disable the content to prevent requests to ArcGIS Online resources. When disabling the content, a select group of items will be disabled:
  - All basemaps owned by "esri_[lang]"
  - All content owned by "esri_nav"
  - All content owned by "esri"

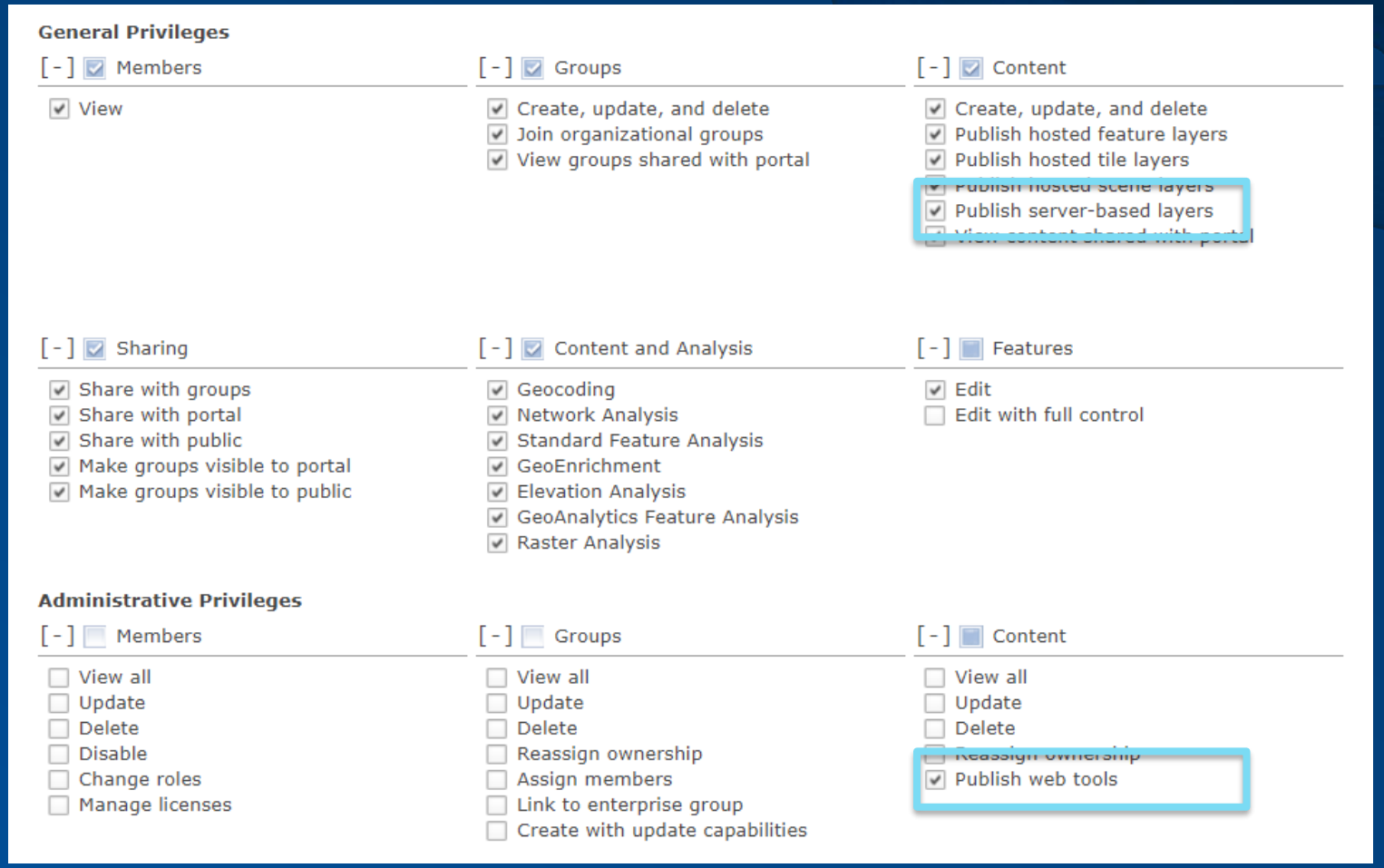


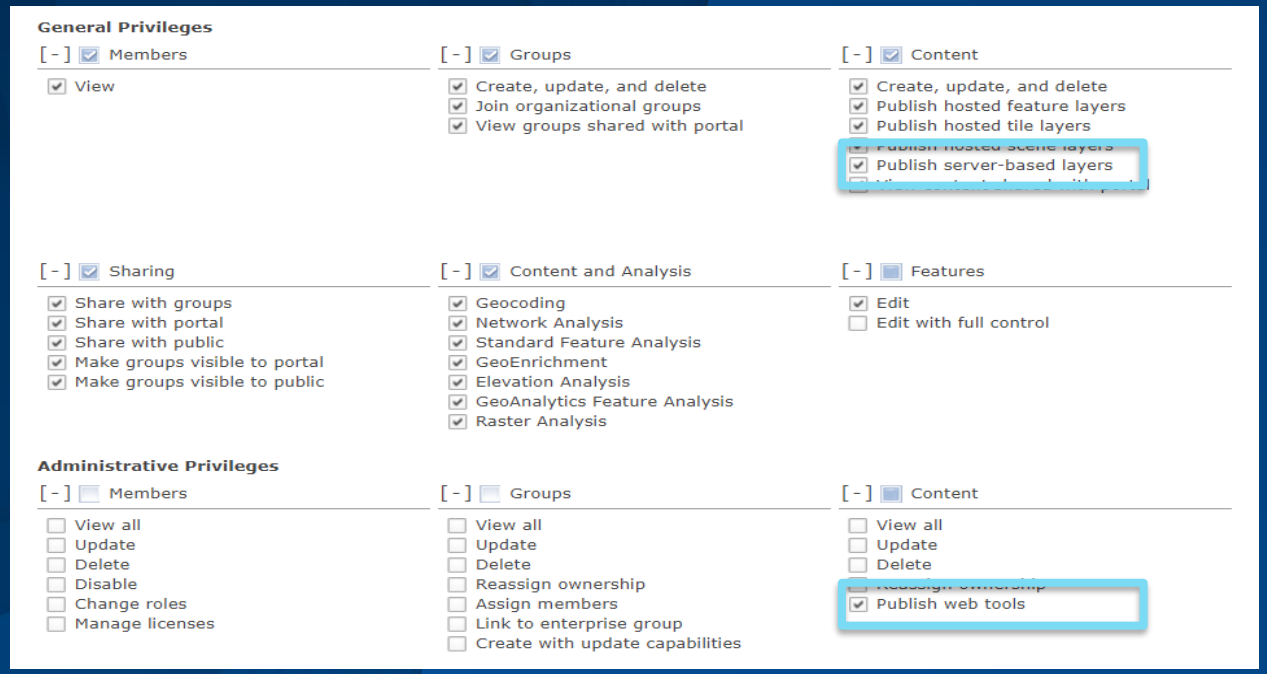
Publishing Privileges



New Publishing Privileges

- Two new privileges:
- Publish custom web tools
- Publish server-based layers

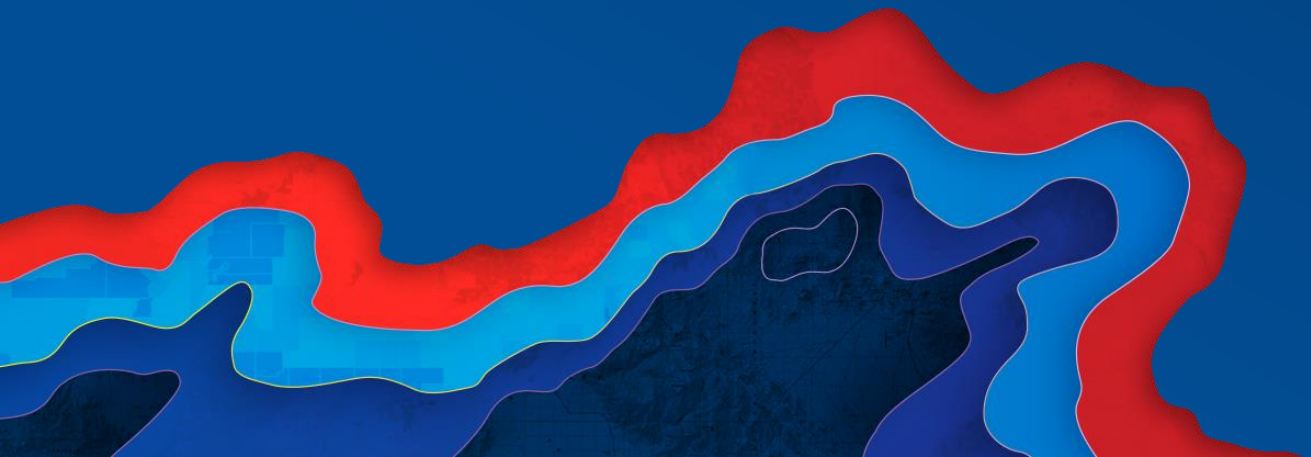




Publishing Privileges

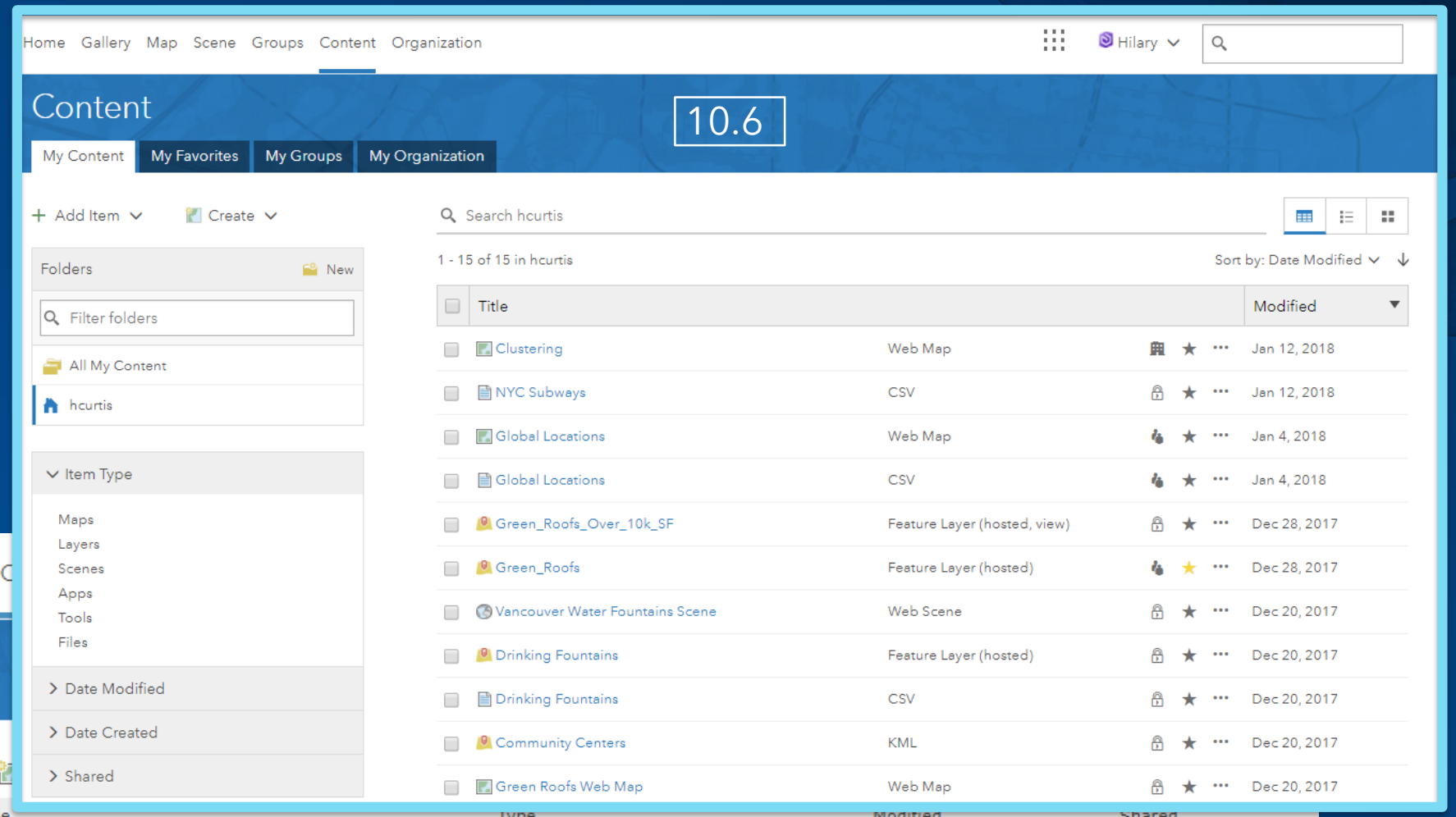
Demo

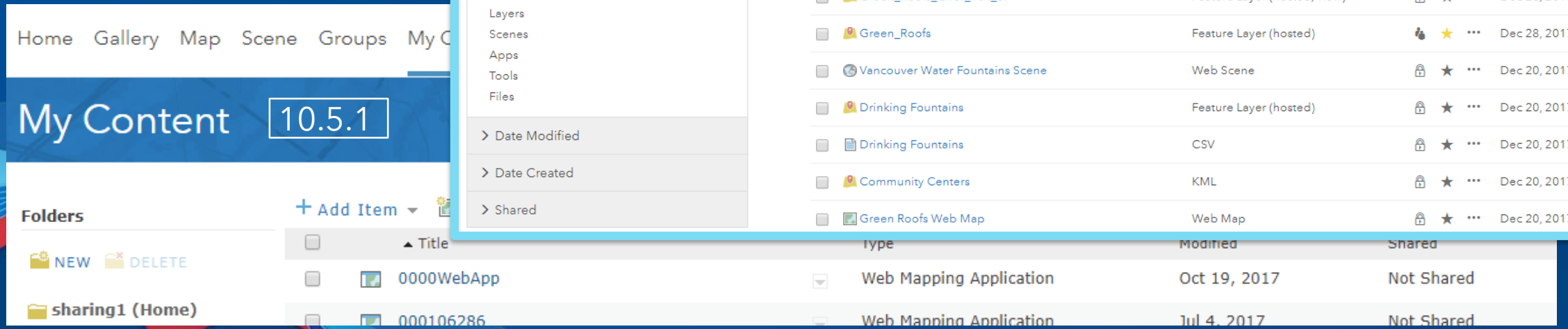
Groups and Content



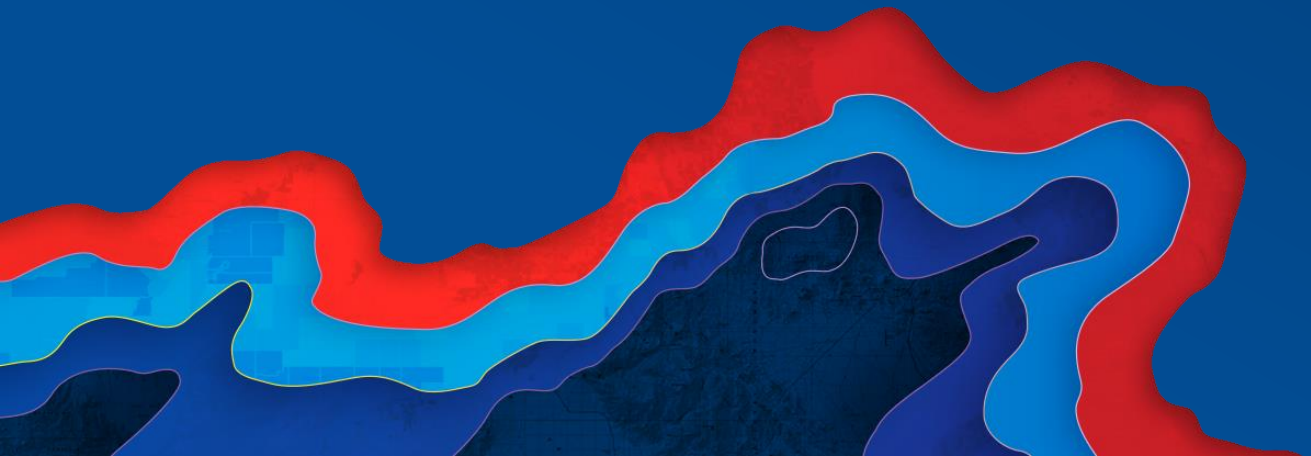
Refreshed interface for Groups and Content

- Search
- Filter
- Tab



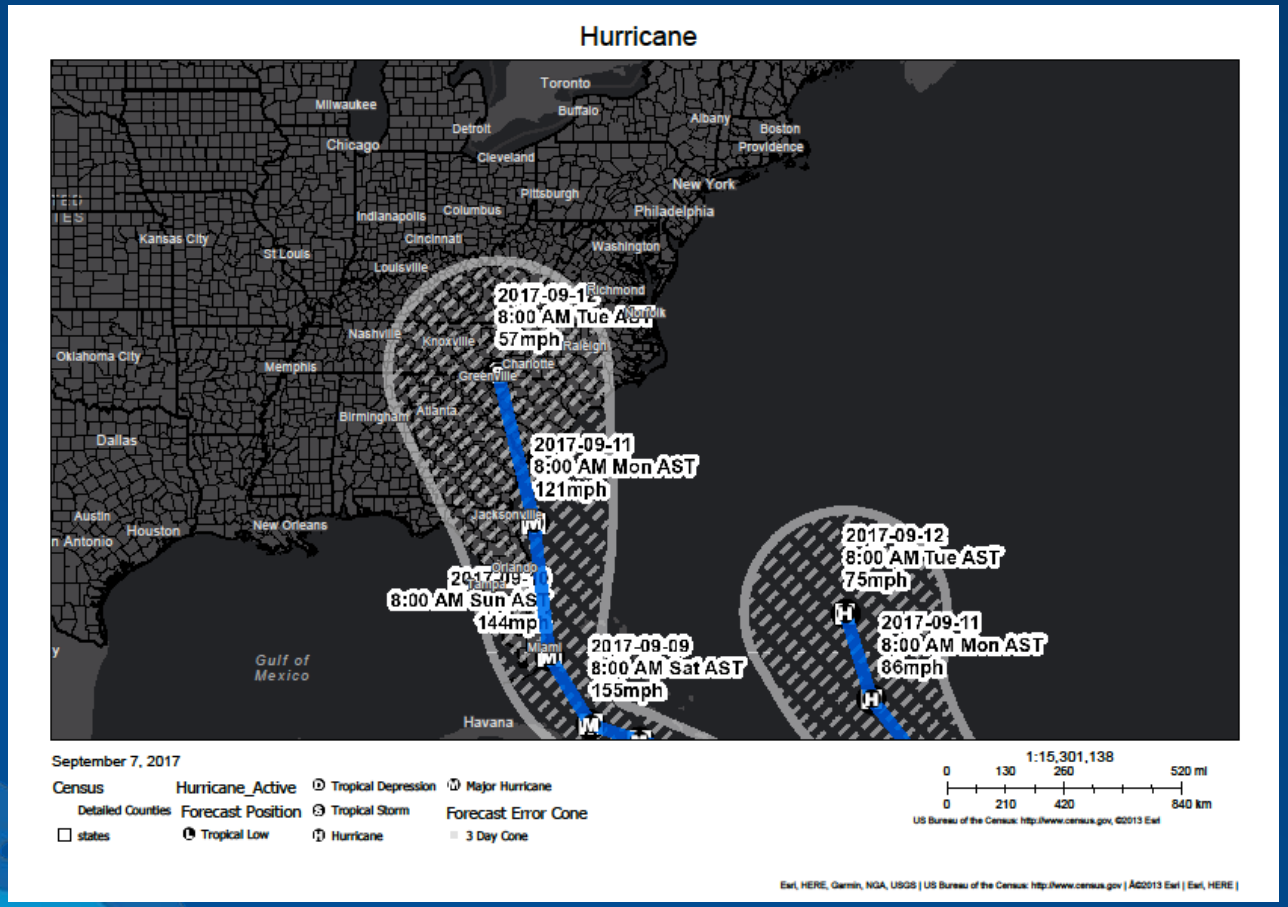


Print Service

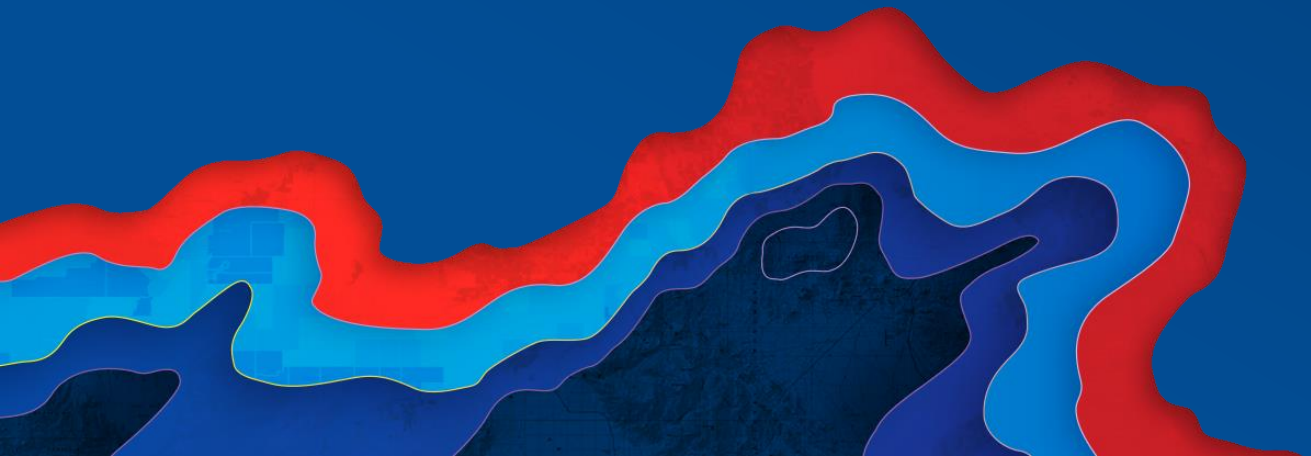


Improved Print Service

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



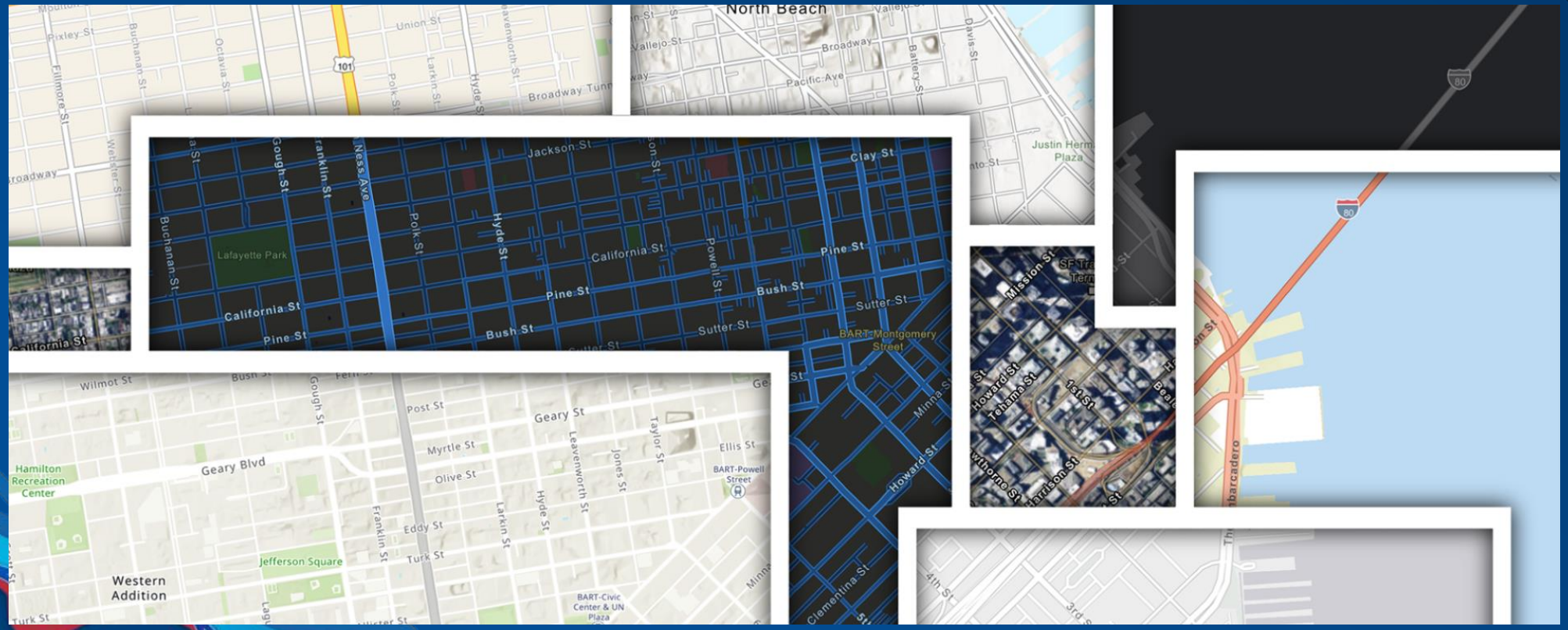
ArcGIS Living Atlas of the World



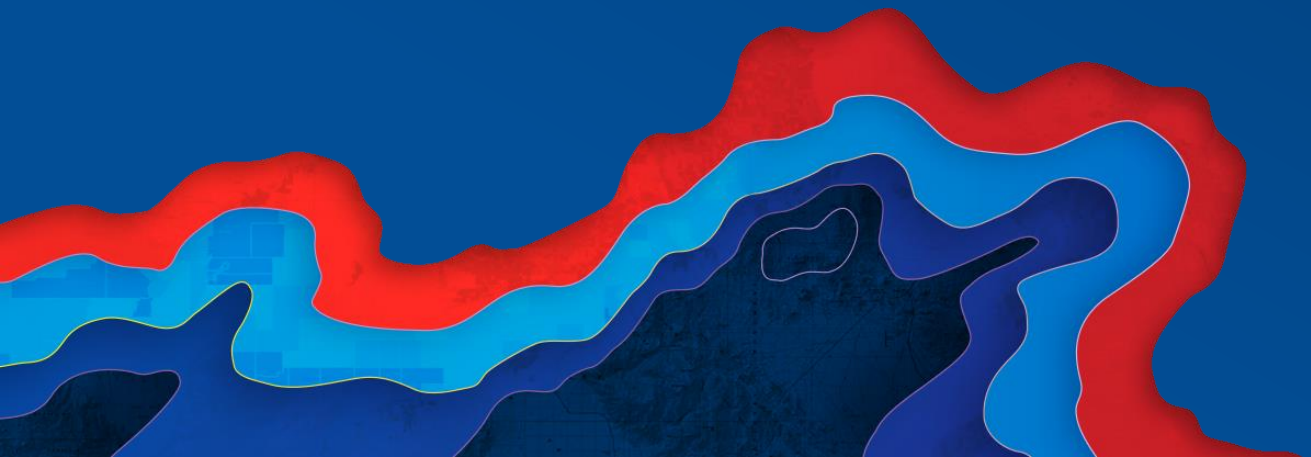
New in ArcGIS Living Atlas of the World

- Vector tile layers
- 2017 U.S. demographic data
- Updated boundary layers

https://livingatlas.arcgis.com

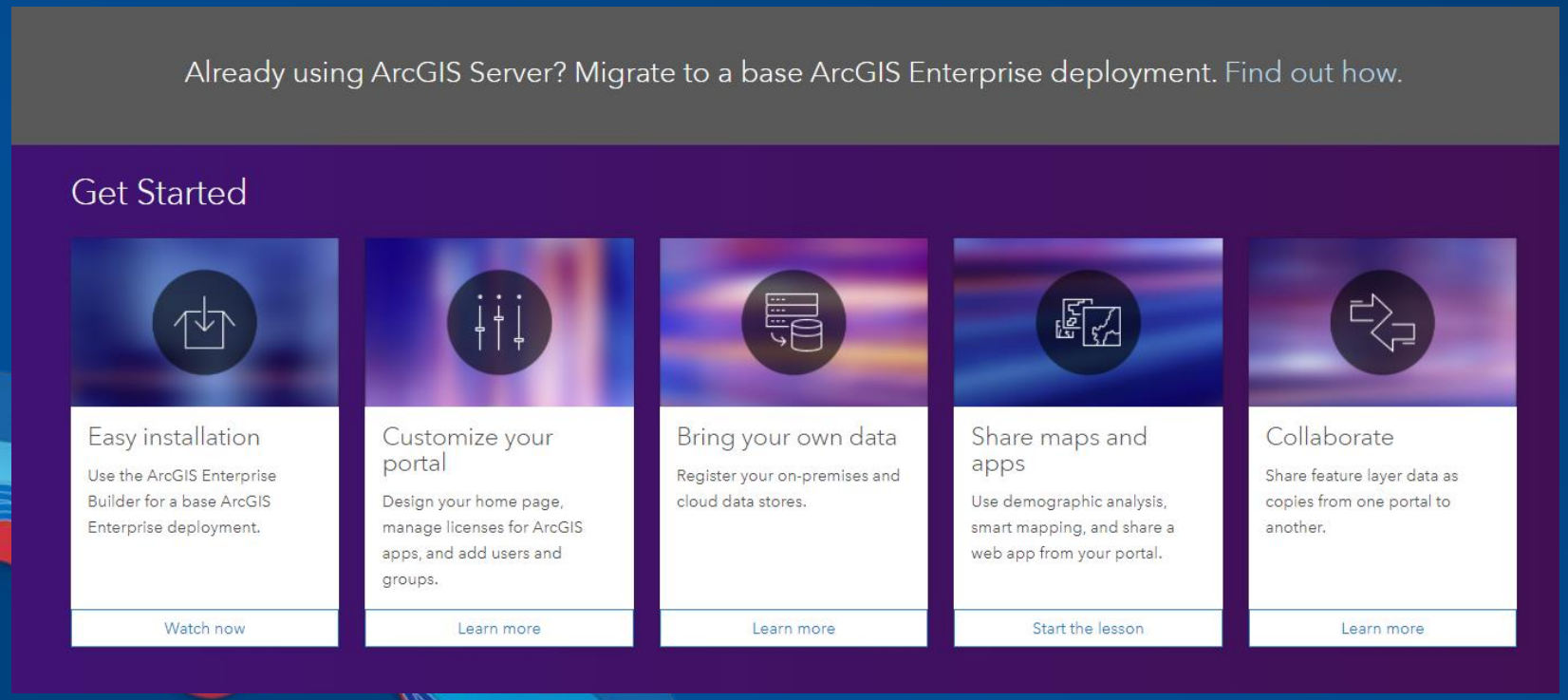


Documentation



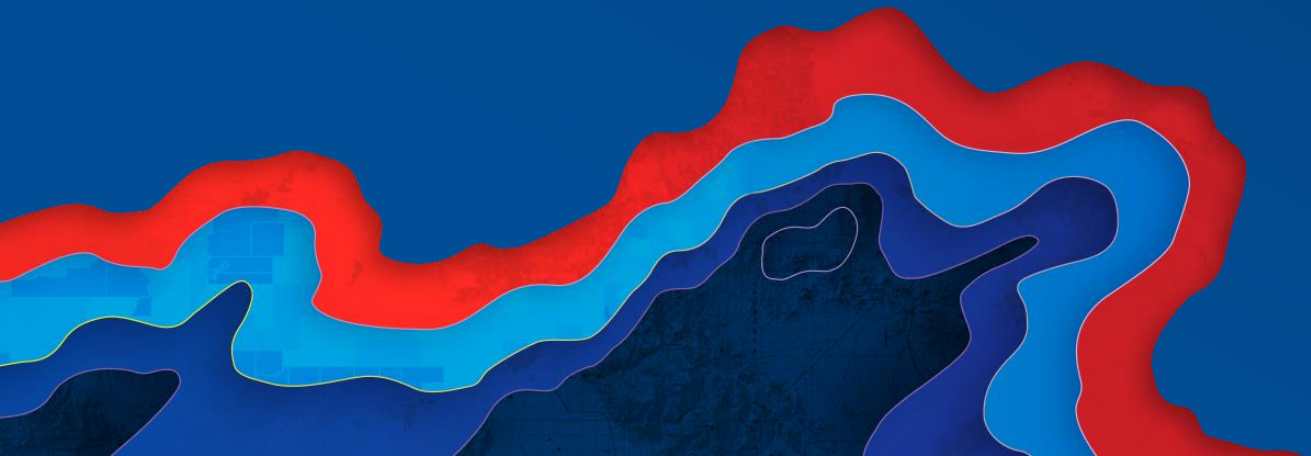
Redesign of web help experience

- 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



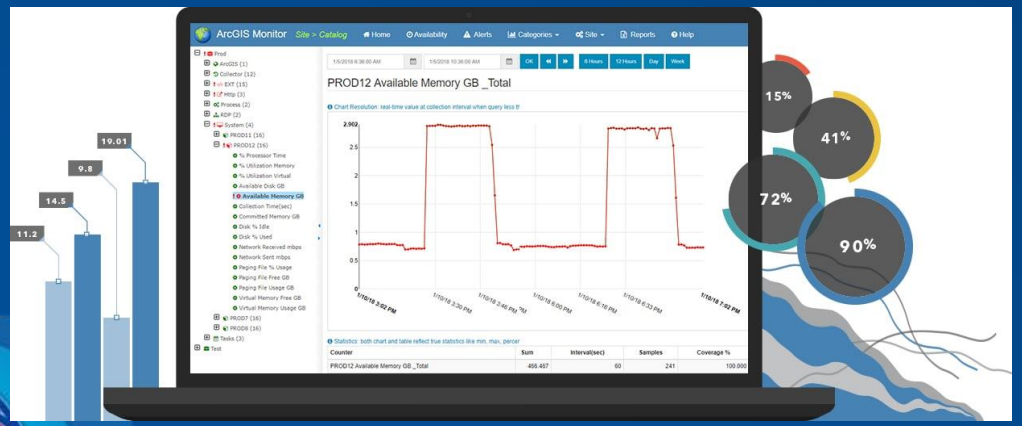
enterprise.arcgis.com

In addition…



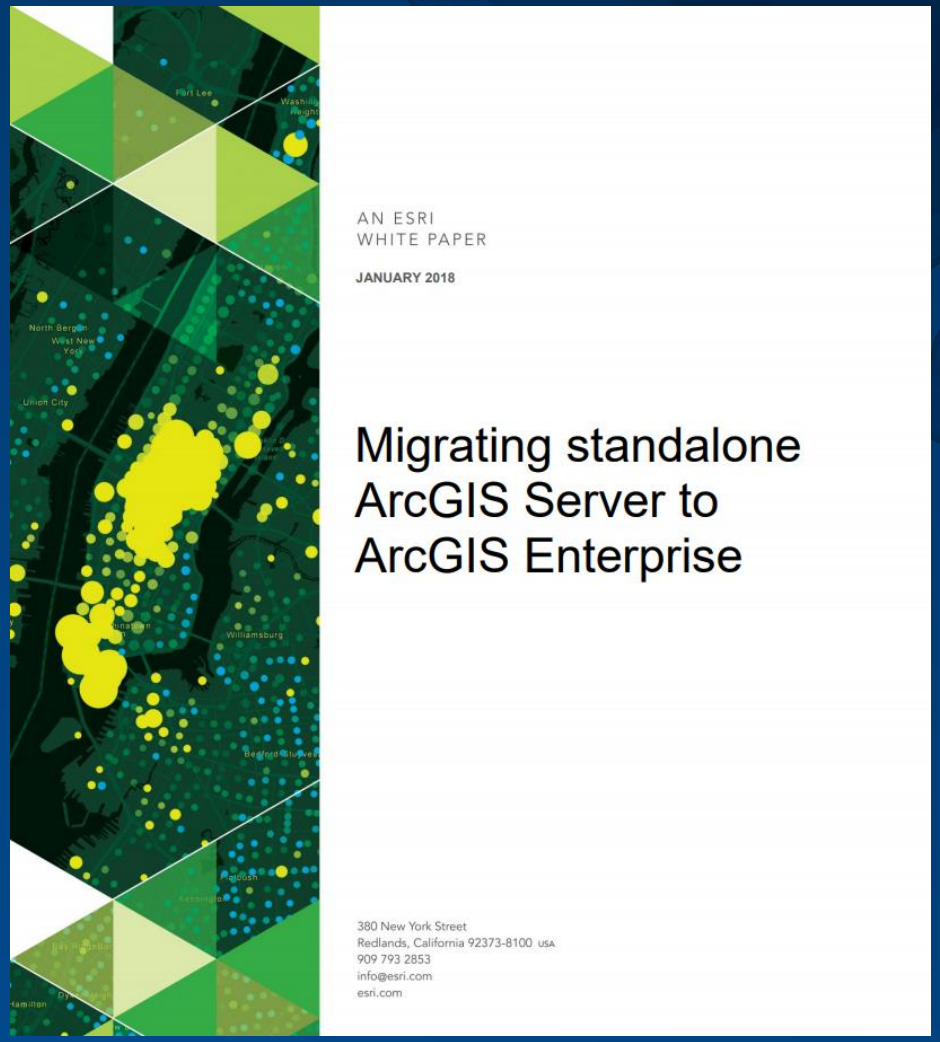
Supported Apps and New Product Releases

- Operations Dashboard for ArcGIS – 10.6
- Workforce for ArcGIS – 10.6
- ArcGIS Monitor – new!
- ArcGIS Utility Network Management extension – new!



Other Resources

- Migrating to ArcGIS Enterprise whitepaper
- Architecting your Deployment



Thank you!

Print Your Certificate of Attendance

Print stations located in the 140 Concourse

Tuesday

12:30 pm – 6:30 pm
GIS Solutions Expo
Hall B

5:00 pm – 6:30 pm
GIS Solutions Expo Social
Hall B

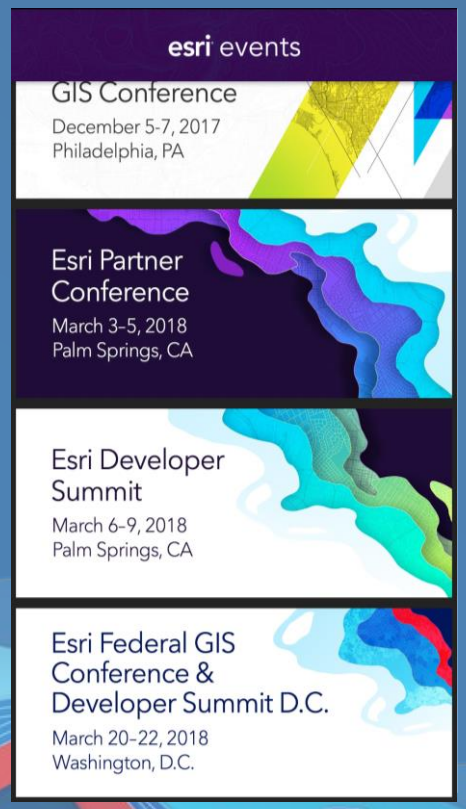
Wednesday

10:30 am – 5:15 pm
GIS Solutions Expo
Hall B

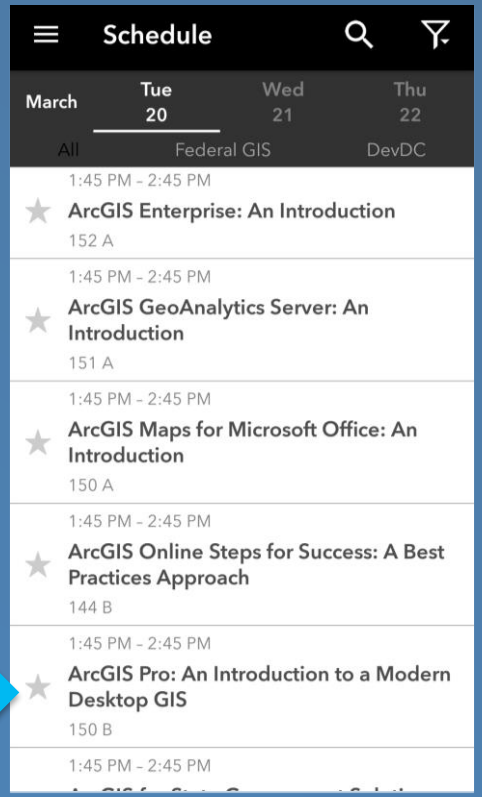
6:30 pm – 9:00 pm
Networking Reception
Smithsonian National Portrait Gallery

Please Take Our Survey in the Esri Events App

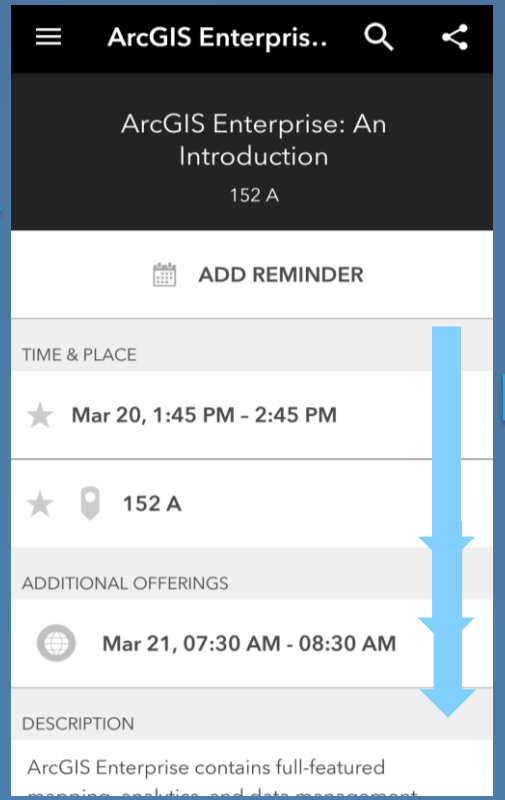
Download the Esri Events app and find your event



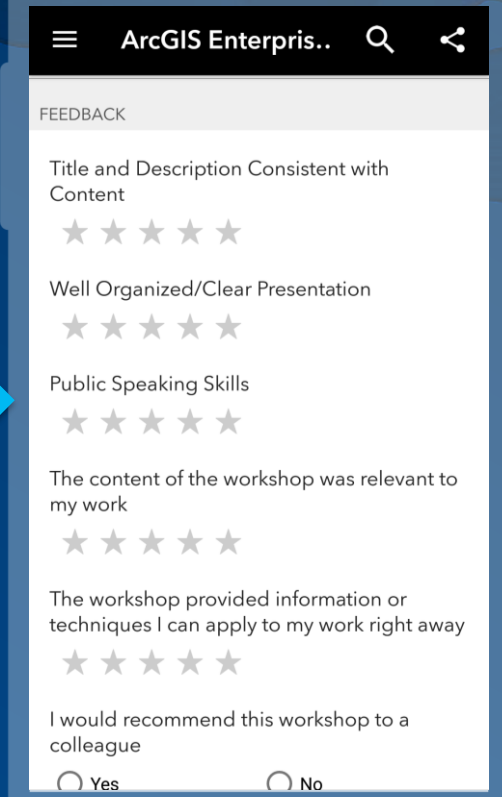
Select the session you attended



Scroll down to find the feedback section



Complete answers and select "Submit"



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