

What's New in Hosted Feature Layers

Jeremy Bartley, Chris Whitmore, Paul Barker

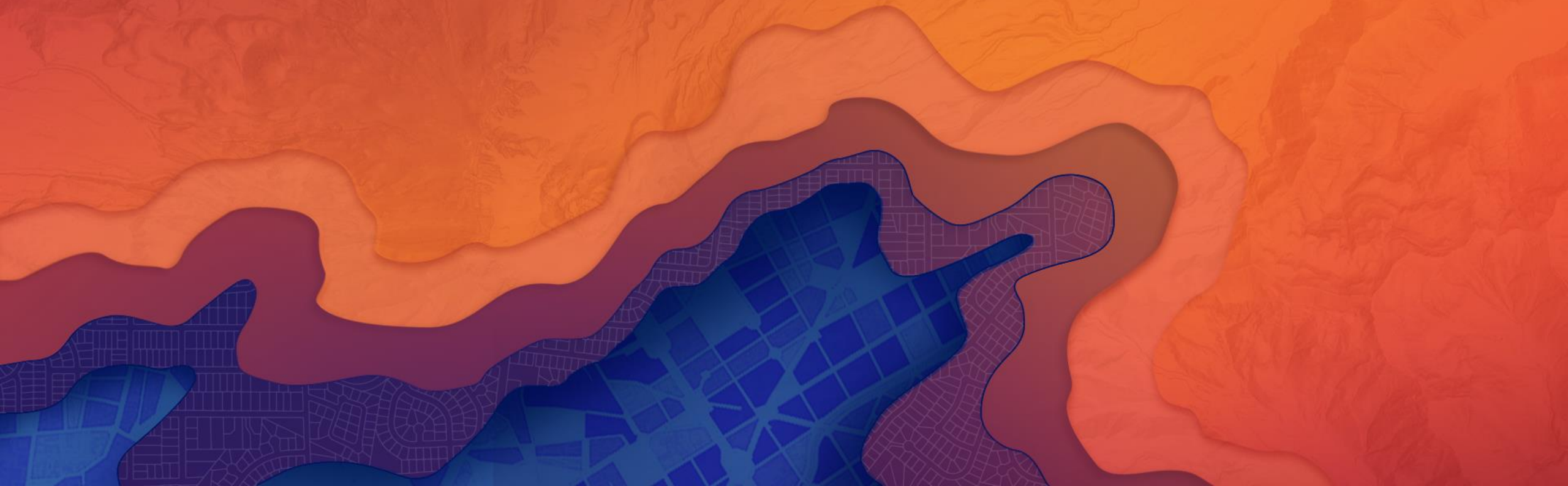
Agenda

What's this all about anyway?

- Hosted Feature Layers
 - Overview
 - Performance & Improvements
 - Arcade and Attribute Expressions
 - A Jumping off Point
 - Collaborations
 - Premium Data Store
 - What's Next?
 - Additional Resources

Hosted Feature Layers

Getting your data into ArcGIS?



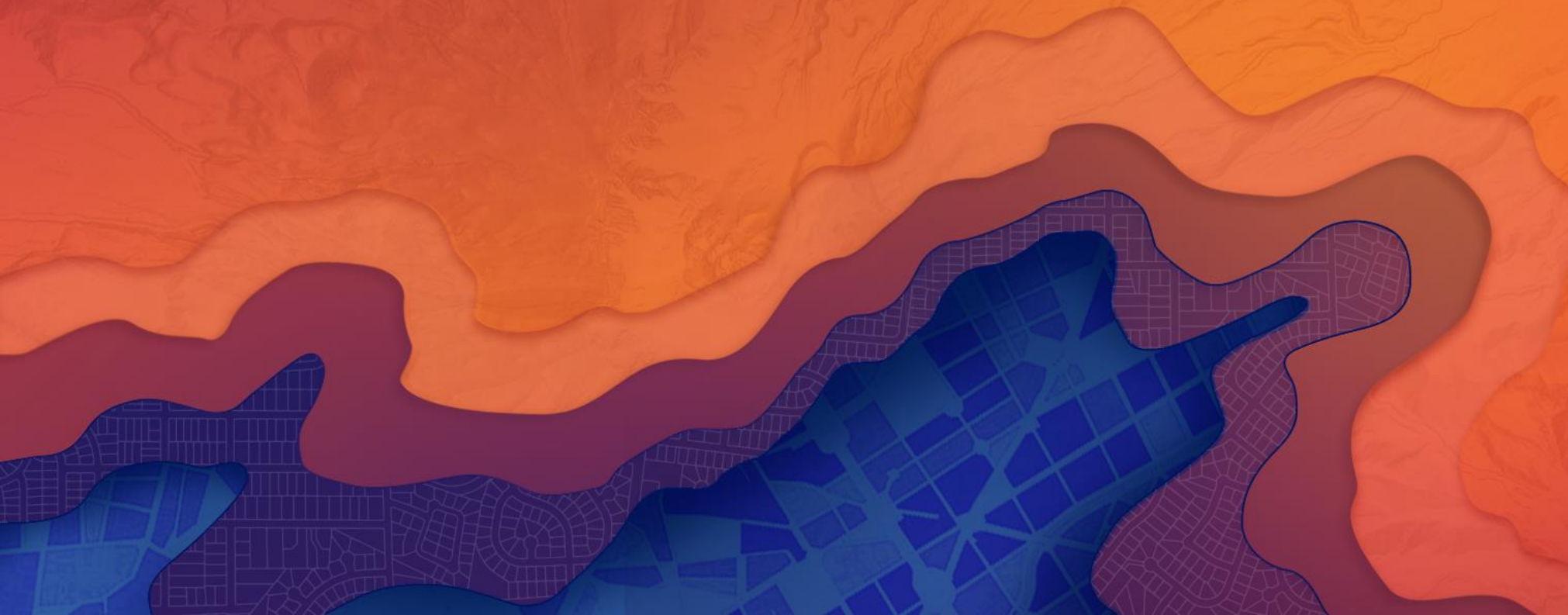
Hosted Feature Layers



- Your data layer
- One of many layer types supported in ArcGIS
- Bread and butter and the starting point of a WebGIS
- Flexible, fast and support editing
- Can be used offline and changes are synchronized
- Many publishing options
 - CSV, XLSX, XLS, GeoJSON, FGDB, SHP, Feature Collections, ArcGIS Pro/Desktop
- Ubiquitous support across the ArcGIS platform
- Multiple ways to download
 - CSV, SHP, GDB, GeoJSON, KML, XLSX, Feature Collection
- 1.84 Million Hosted Feature Services in ArcGIS Online (5000-7000 a day)

Optimizations & Improvements

Chris Whitmore



Performance Optimizations & Improvements



Significant improvements in publishing times when publishing from ArcMap, ArcGIS Pro, shapefiles and geodatabases

Feature Layers now use a CDN to boost performance

Use HTTP/2 increases performance over HTTPS



Item details page now shows the last time the data was edited



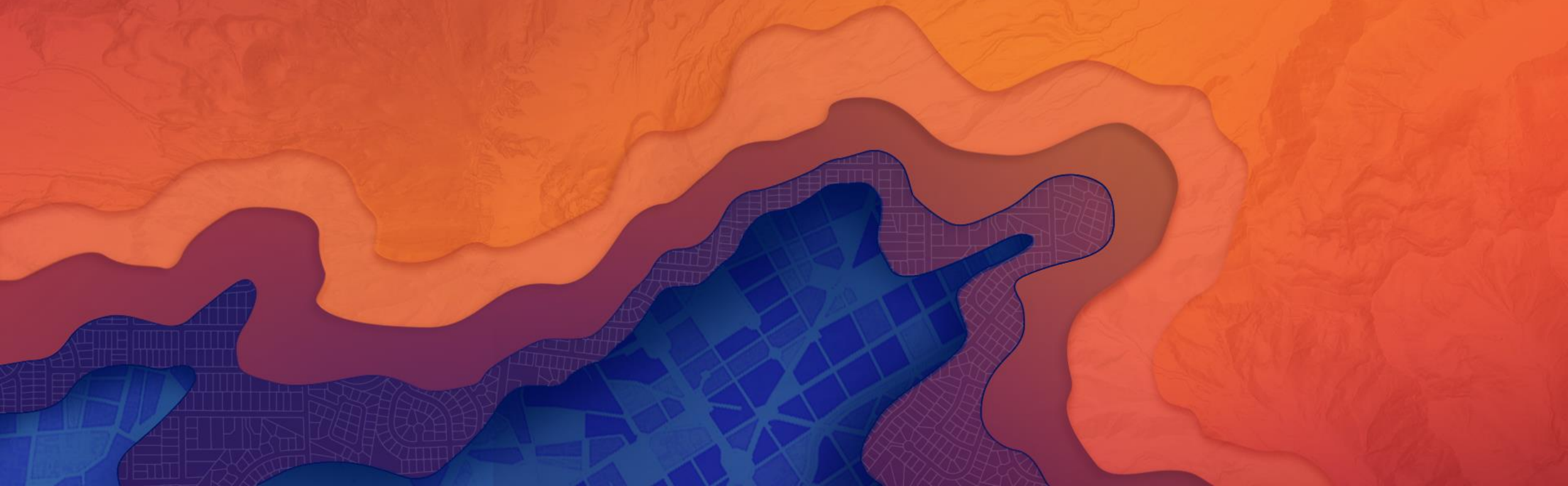
Push data from ArcGIS Enterprise and ArcGIS Online using Collaborations



Data tab enhancements on the item details page (Add field, Calculate)

Attribute Expressions and Arcade

Paul Barker



What is Arcade?



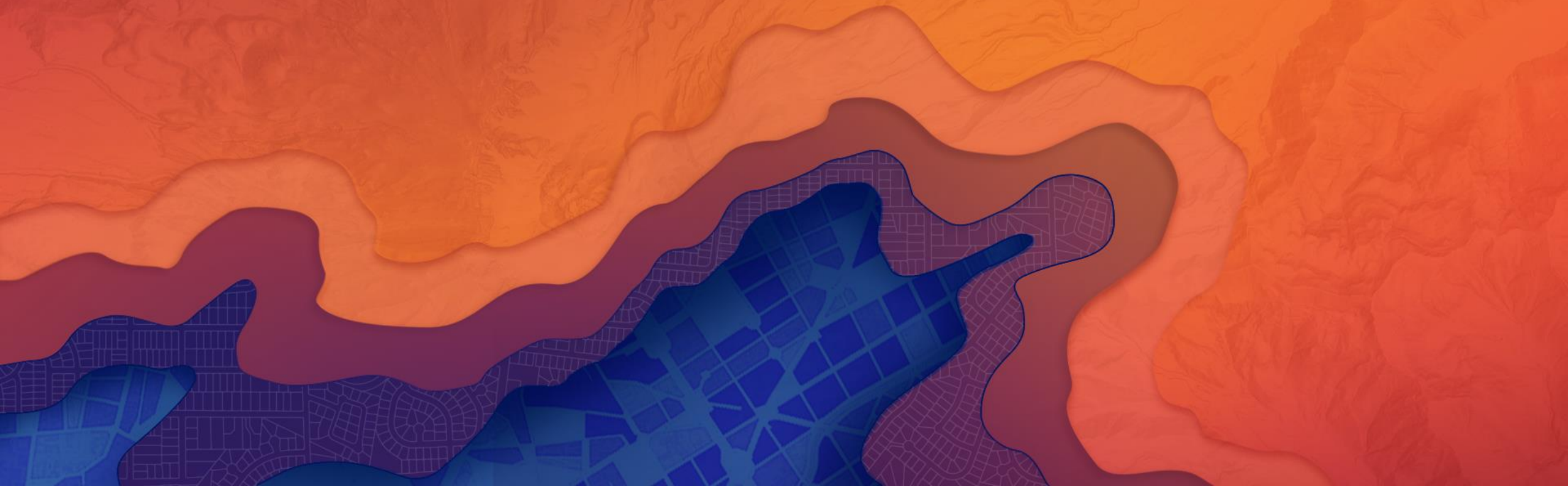
- Named after the Arch not Pac-Man
- A common language for expressions in ArcGIS (think excel for ArcGIS)
- Allows you to build simple or complex expressions from your data
- Not intended to be a geoprocessing replacement or a Python replacement
- Supported in popups, rendering, labeling and rotation



Arcade Demo

Paul Barker

A Jumping off Point



Hosted Feature Layers

A Jumping off Point

Feature Layer



Feature Layer
Views



Tile
Layer

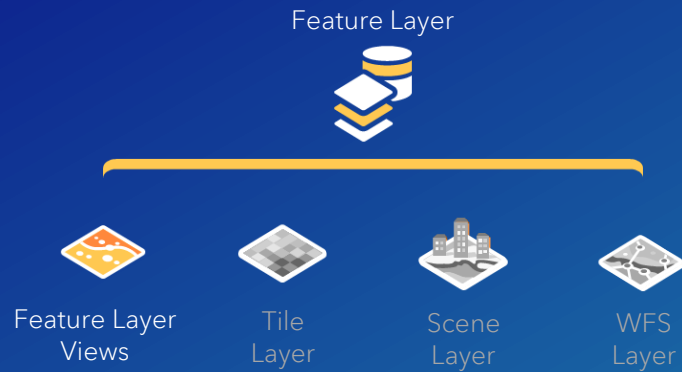


Scene
Layer



WFS
Layer

Hosted Feature Layer Views



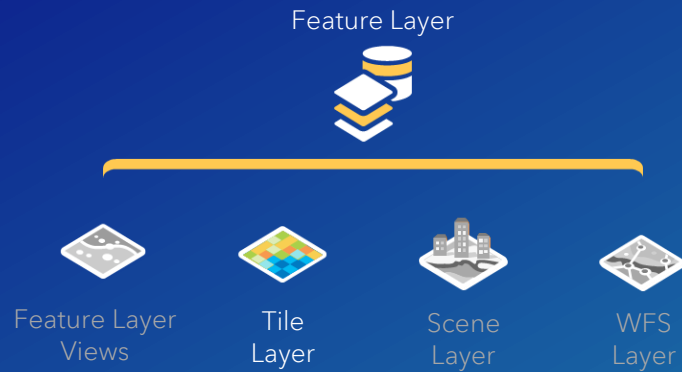
- Create new views of your data , without duplicating information
- Tailor capabilities for your audience
- Remove sensitive information
- Control access and editing
- Planned for ArcGIS Enterprise in 10.6
- Same capabilities as a feature layer
- Publish additional tile layers



Feature Layer Views Demo

Paul Barker

Tile Layer



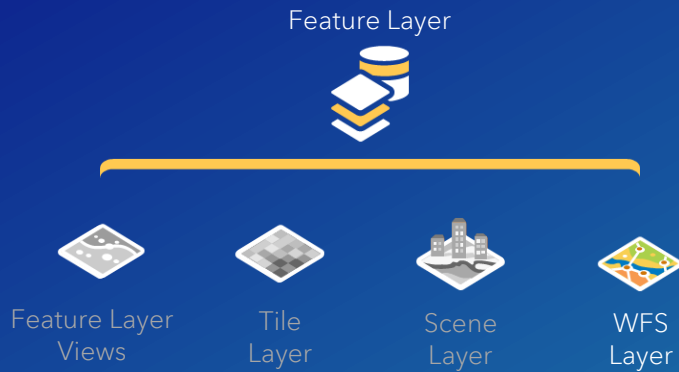
- Fast , scalable performance
- Keep up to date automatically as data changes
- Visualize all your data
- Tiles generated on demand! But can still be created ahead of time.
- Reduced cost (1 credit per 10000 tiles)



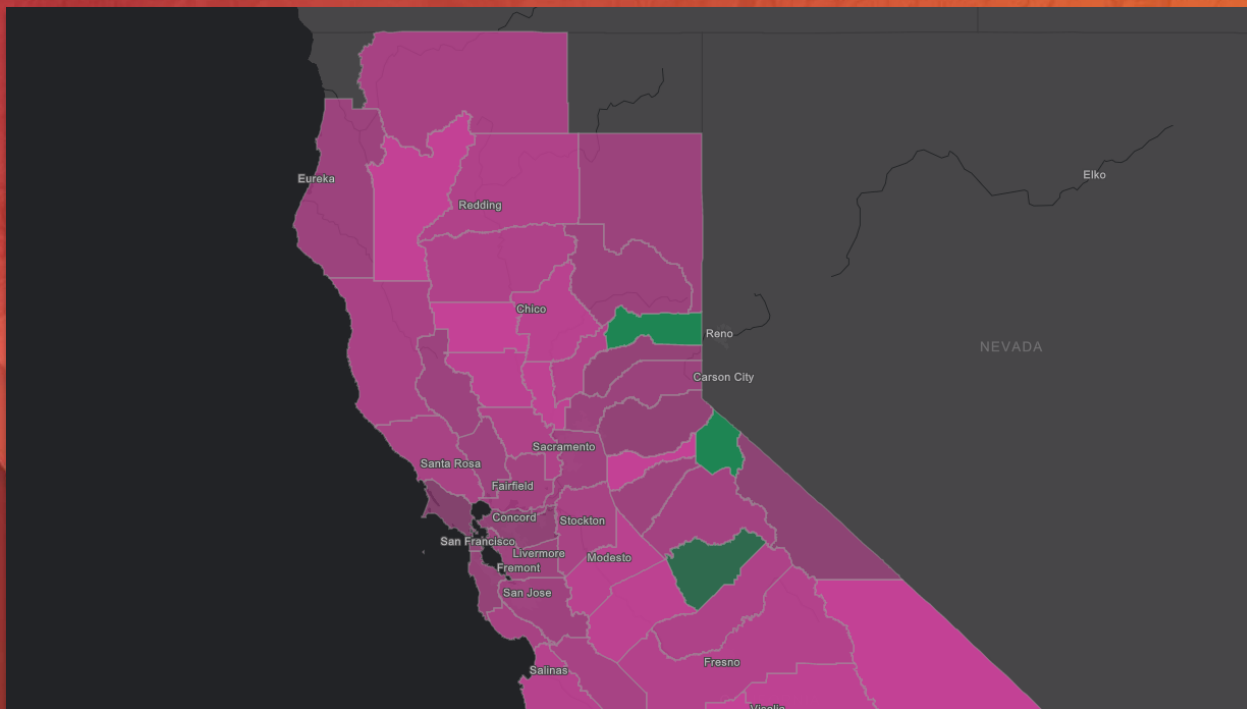
Tile Layers Demo

Chris Whitmore

Hosted OGC layers



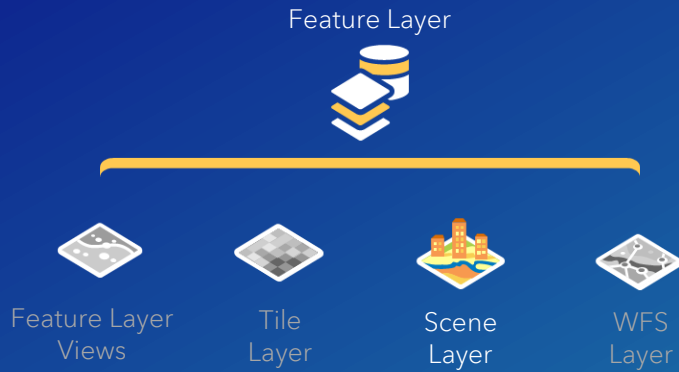
- Support and comply with your organizations open standards
- Share data outside of ArcGIS to extend the reach of your GIS
- WFS support
- WMTS support



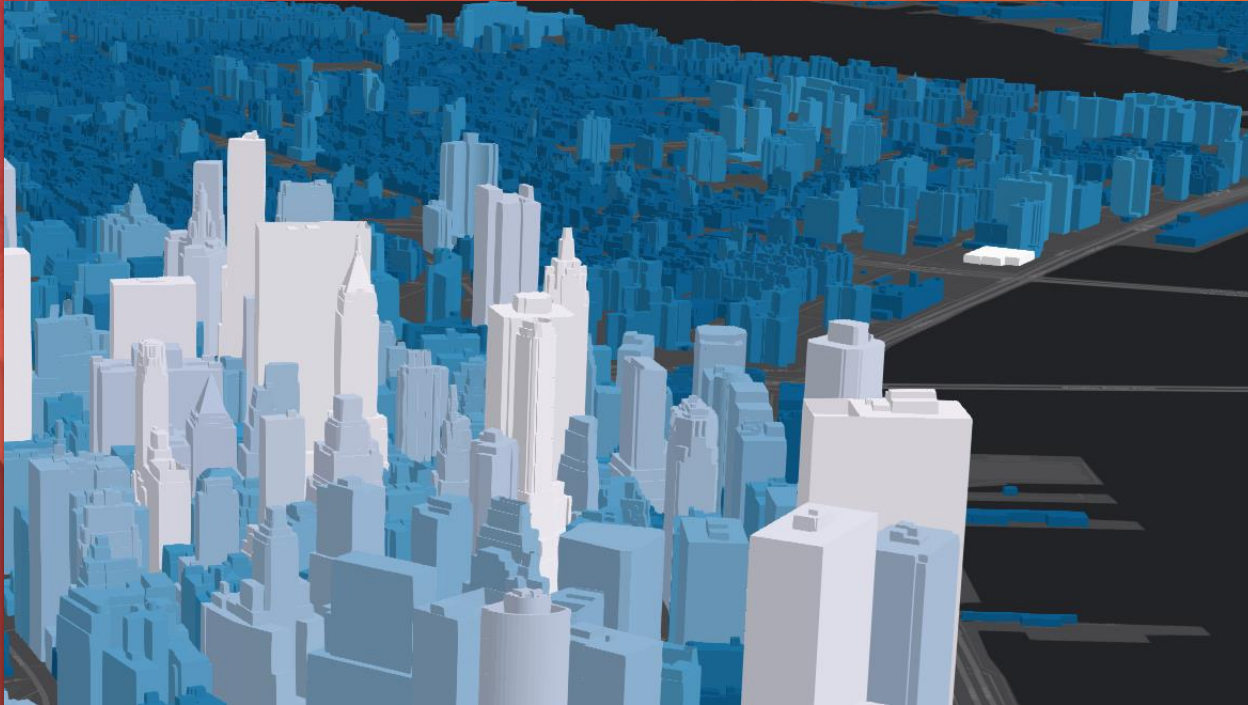
OGC Layers Demo

Chris Whitmore

Scene Layer



- Published Point scene layers to visualize large datasets of 2D and 3D features
- Create 3D Object scene layers to visualize multipatch features like buildings
- Display rich popups from features in the scene layer
- View these layers in global or local scenes
- Use smart mapping in Scene Viewer to visualize these layers

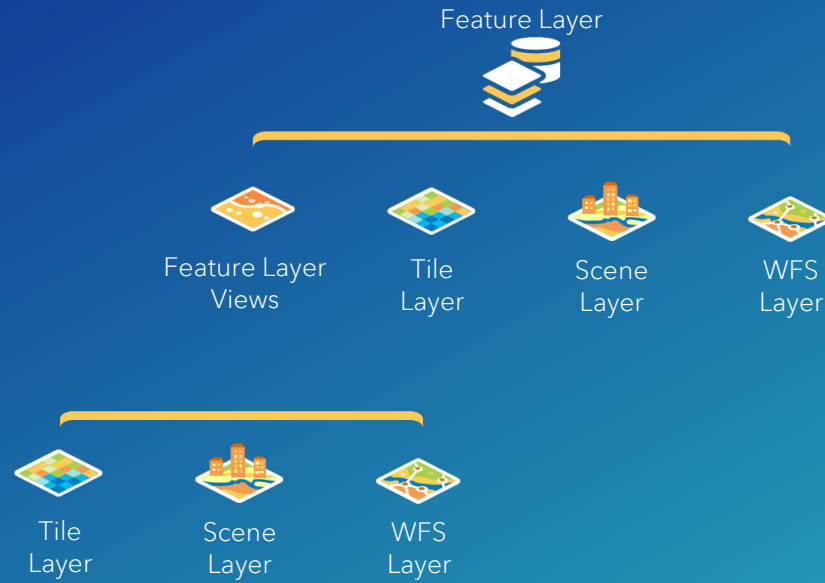


Scene Layers Demo

Jeremy Bartley

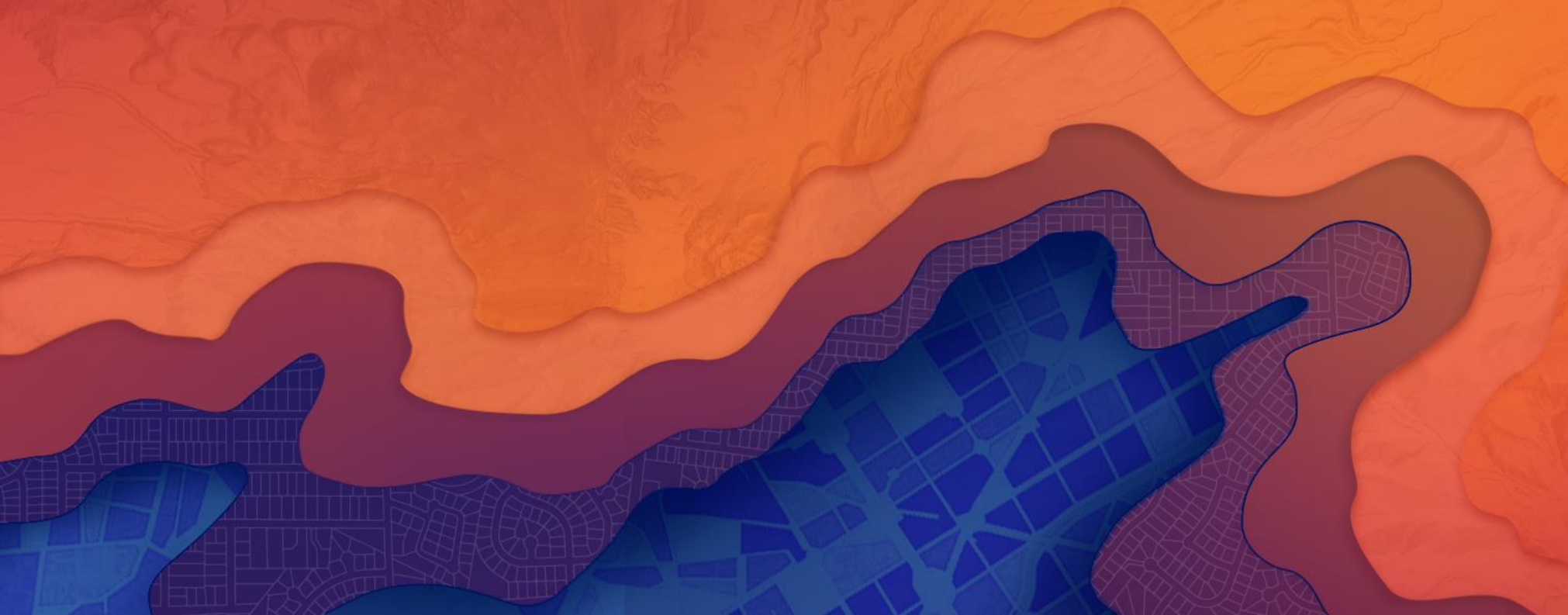
Hosted Feature Layers

A Jumping off Point



Collaborations

Paul Barker



What are Collaborations?



- A way for you to share data between ArcGIS Enterprise and ArcGIS Online
- Secure workspaces for collaborating around maps and layers
- Push data to ArcGIS Online or push data into your enterprise
- Hosted feature layer replication (one direction)
- Available to Early Adopters

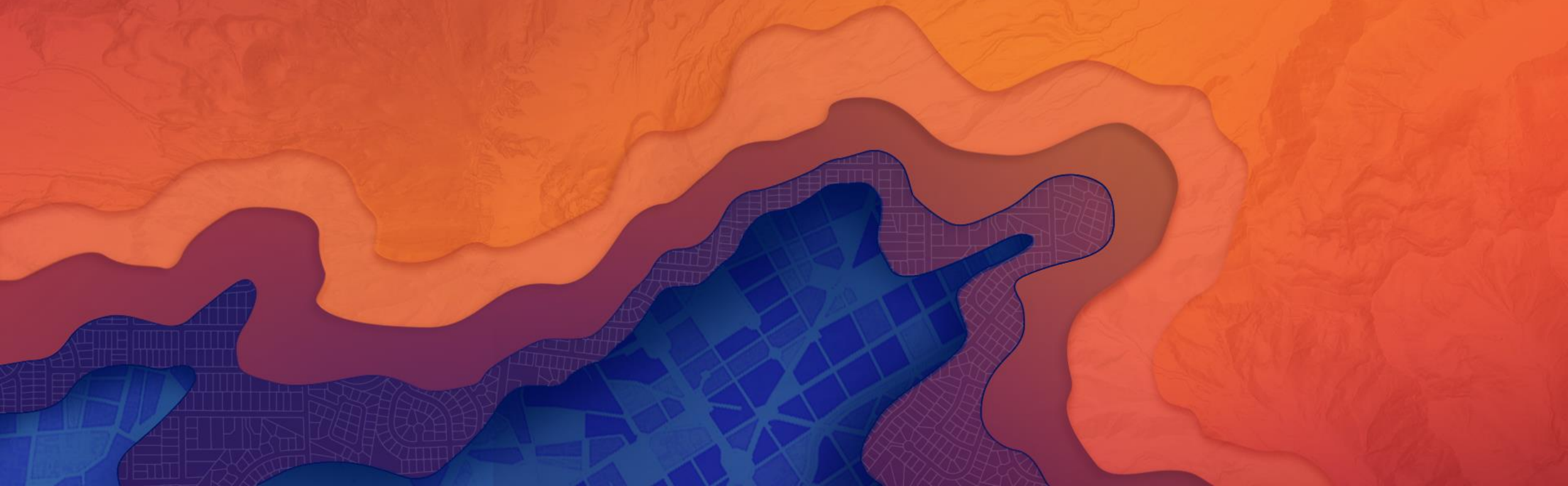


Collaboration Demo

Paul Barker

Premium Data Stores

Jeremy Bartley



What are Premium Data Stores?

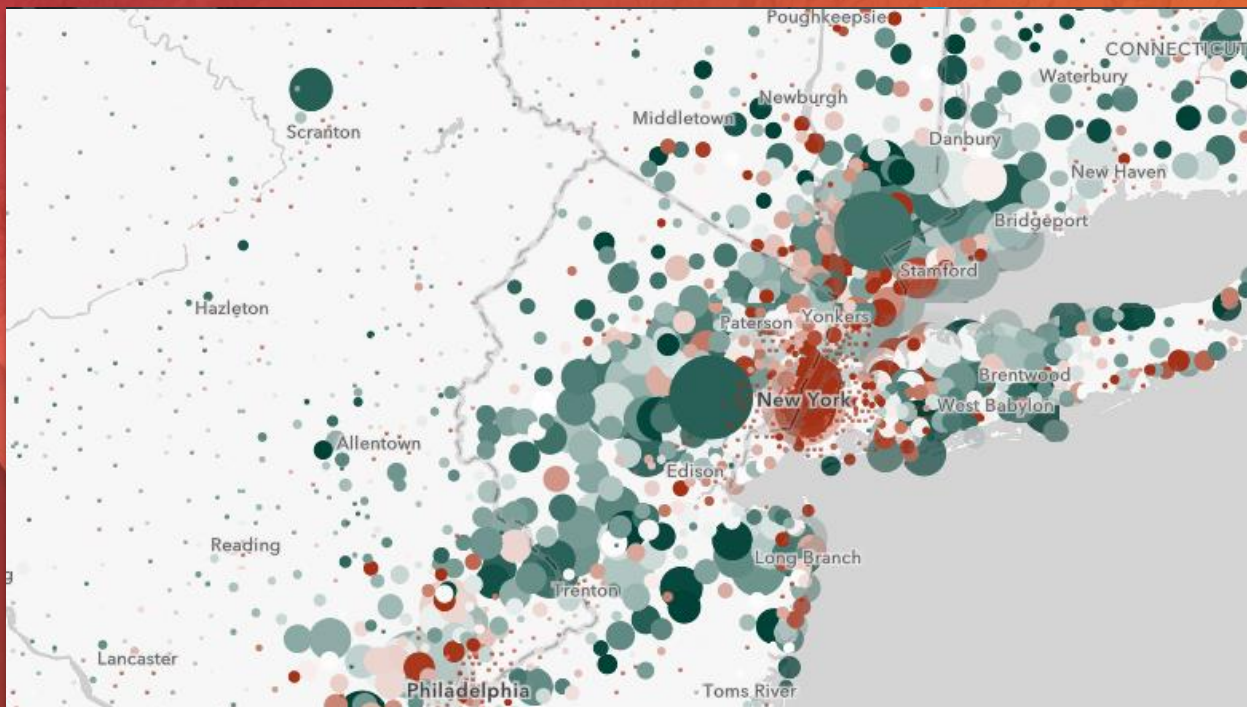


- Optional upgrade to increase database performance
 - Heavy queries, many users, concurrent editing
- Gives your organization dedicated hardware resources
- Three performance tiers available (M1-M3)
 - Fixed cost per month
 - Database storage included in that cost

What's Next?



- Continuing performance improvements
- More control over transformations (Feature Layer)
- Query layer Views (Combine data across layers)
- Faster feature layers (WebGL drawing)
- Better data management
- Pre-planned
- Vector tiles from features



WebGL Demo

Jeremy Bartley

Additional Resources



Tile Layers

Getting started with tiles from features
<http://arcg.is/2su3cqC>



Arcade

What's New (June 2017)
<http://arcg.is/2tYDmMz>



Workflows

Matching Layers to Workflows
<http://arcg.is/2txlefM>



Scene Layers

What's New (June 2017)
<http://arcg.is/2slRO4d>



View Layers

Detailed Example
<http://arcg.is/2tZkYGA>



Online Doc

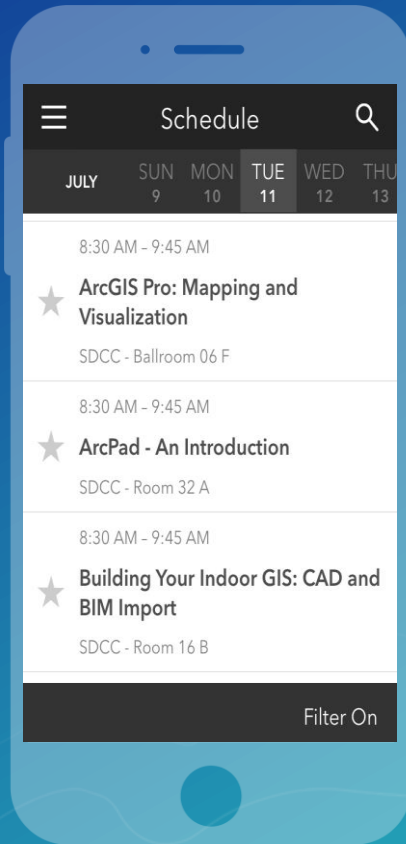
<http://doc.arcgis.com/en/arcgis-online>
<http://learn.arcgis.com>
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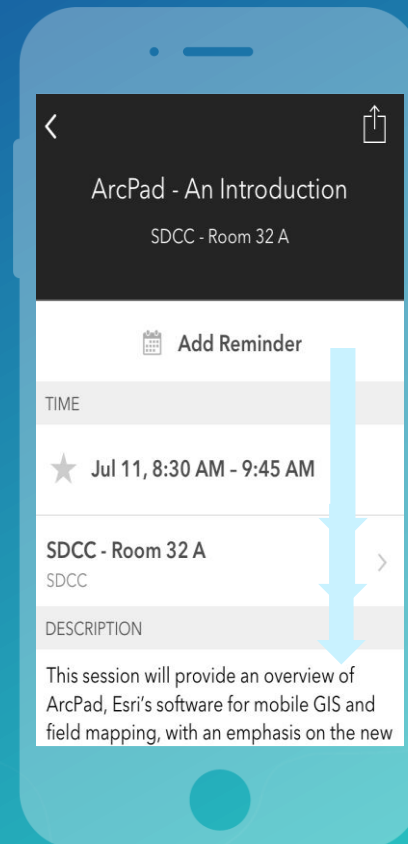
Download the Esri Events app and find your event



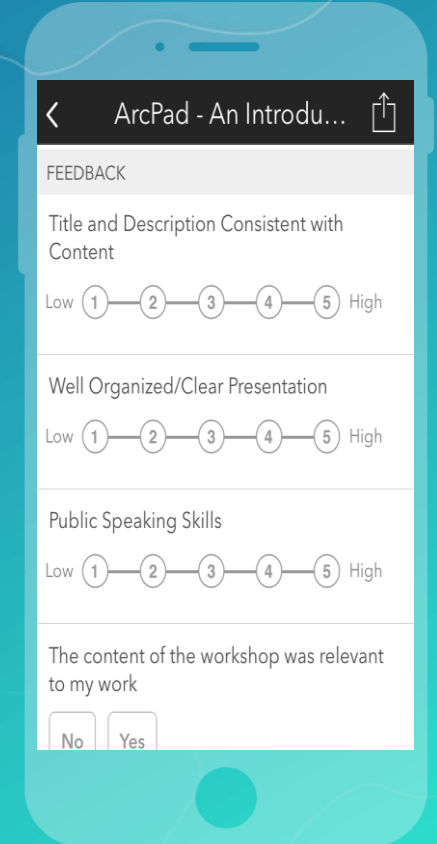
Select the session you attended



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