




Working with Hosted Feature Layer Views and Public Data

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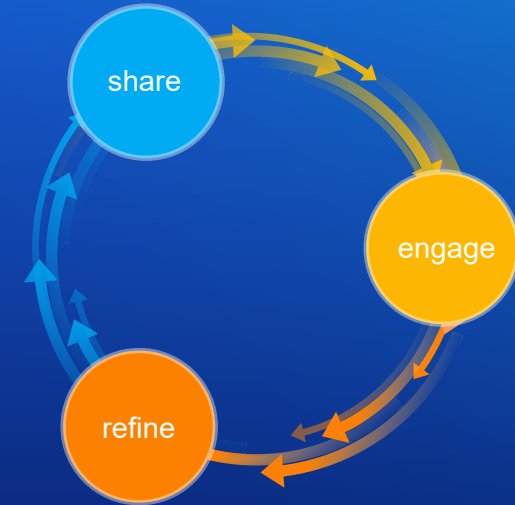
2021 ESRI
DEVELOPER SUMMIT

Agenda

- Sharing to the public
 - Performance and Optimization
 - Hosted feature layer views
 - A practical example
 - What's next
- 

Sharing to the public

- **Sharing plays a central and vital role for many organizations**
- **Sharing to the public forces many questions**
 - What does the public need to see?
 - Can they edit or add information?
 - How do I manage the data and still share it to the public?
 - What do I need to do to ensure the best experience for users?



Performance and Optimization

- **Caching is built into the ArcGIS Platform**
 - Rarely requires adjustment
 - Performance benefits are lost when shared publicly and data is editable
- **Building multi-scale geometry can improve drawing complex polygons/lines**

Public Data Collection

☒ Approve this layer to be shared with the public when editing is enabled.

Cache Control

When a layer is shared with the public, it is cached by a Content Delivery Network (CDN). A CDN can dramatically decrease latency when delivering your content around the globe. This improves the map load time and the responsiveness of apps and leads to a better user experience. By default, the CDN regularly checks the feature layer to make sure the CDN cache is current. You can further improve performance by increasing the length of time that the current cache is considered

Optimize Layer Drawing

This setting increases the drawing speed of line and polygon layers with detailed geometry (e.g., many vertices) but also uses additional storage space to do so.

Select the layers to optimize:

☐ Subtype

Note: Layer optimization takes a few minutes to complete. Editing will be temporarily disabled on layers undergoing optimization.

Fantastic Views and how to use them

Flexible tailored views into your dataset. Allows you to create and share layers with specific data and capabilities, without duplicating data

Feature Layer



View A

Read-only shared to the public



View B

Add only shared to the public



View C

Editable, shared to data reviewers

Demo Example and Considerations

- City-wide biodiversity hunt
- Considerations for public data collection
 - Who needs access to the data?
 - What data can they access?
 - How is the data collected?

Who and What

- **Public:** view to submit sightings
- **Public:** view of reviewed sightings
- **Reviewer:** view of unverified sightings

Public



- Add new sightings to the map
- Only view sightings that have been reviewed by city staff

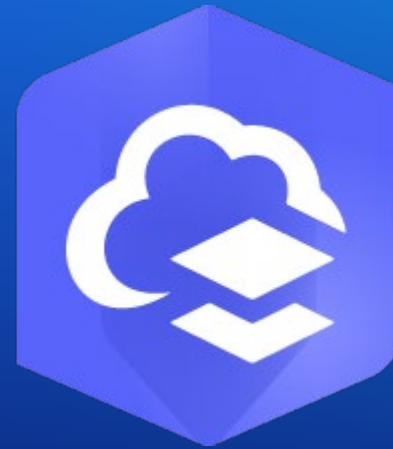
City Staff (reviewers)



- Update and delete sightings when reviewing (duplicates, fake reports)
- View only sightings that are pending review

How to collect, edit, and share

- Survey123
- ArcGIS Online
 - Map Viewer Beta
 - Instant apps



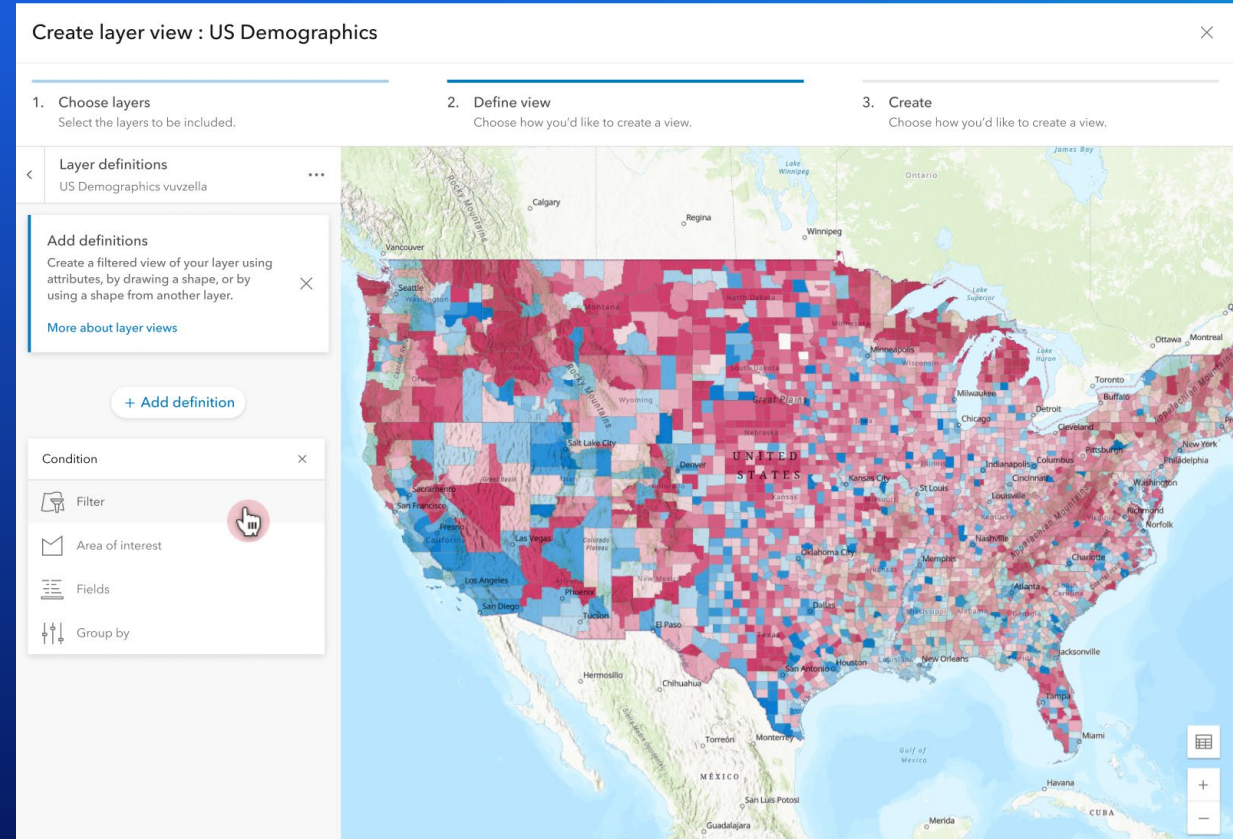


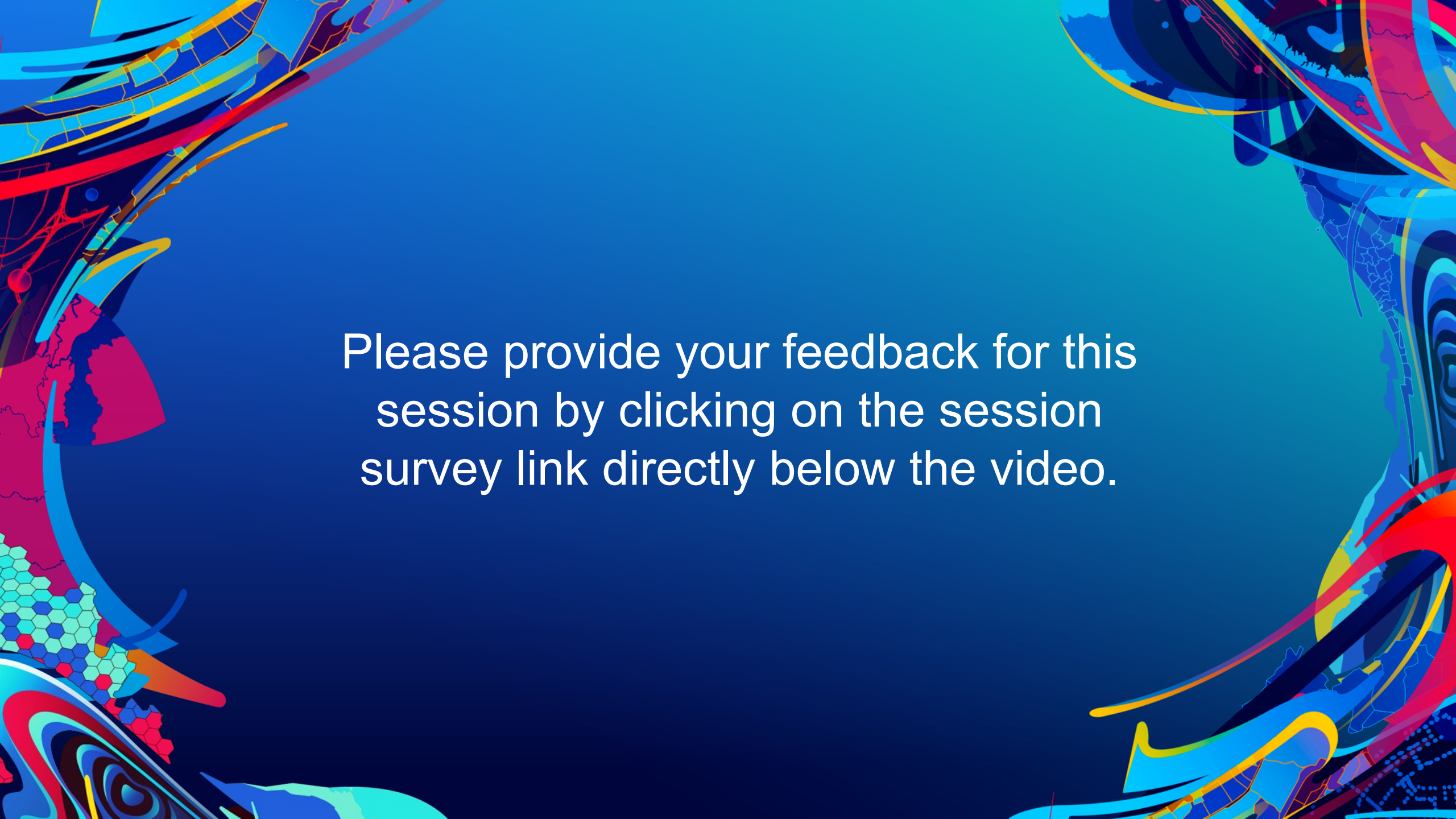
Demo

Lauren Ballantyne

What's next

- New view creation experience
- Switch source layer



The background is a vibrant, abstract composition. It features a central area of solid blue and teal. The left and right sides are framed by complex, colorful patterns. On the left, there are swirling shapes in red, yellow, and blue, along with a section of a hexagonal grid in shades of green and blue. On the right, there are more swirling, organic shapes in blue, red, and yellow, with some areas resembling a cellular or molecular structure. The overall effect is dynamic and modern.

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