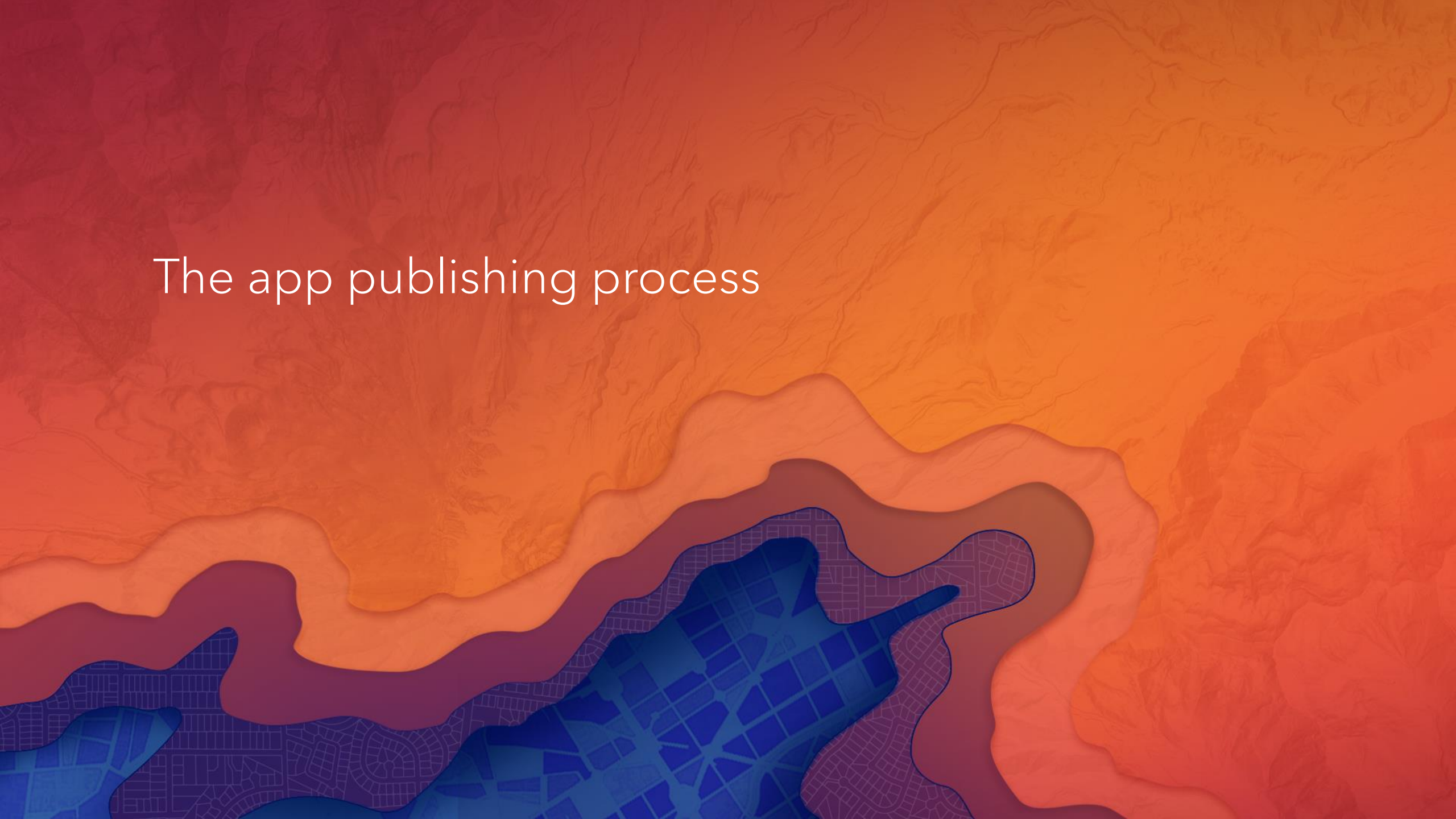
Creating Apps Using ArcGIS Online Templates

Matt Kennedy

Agenda

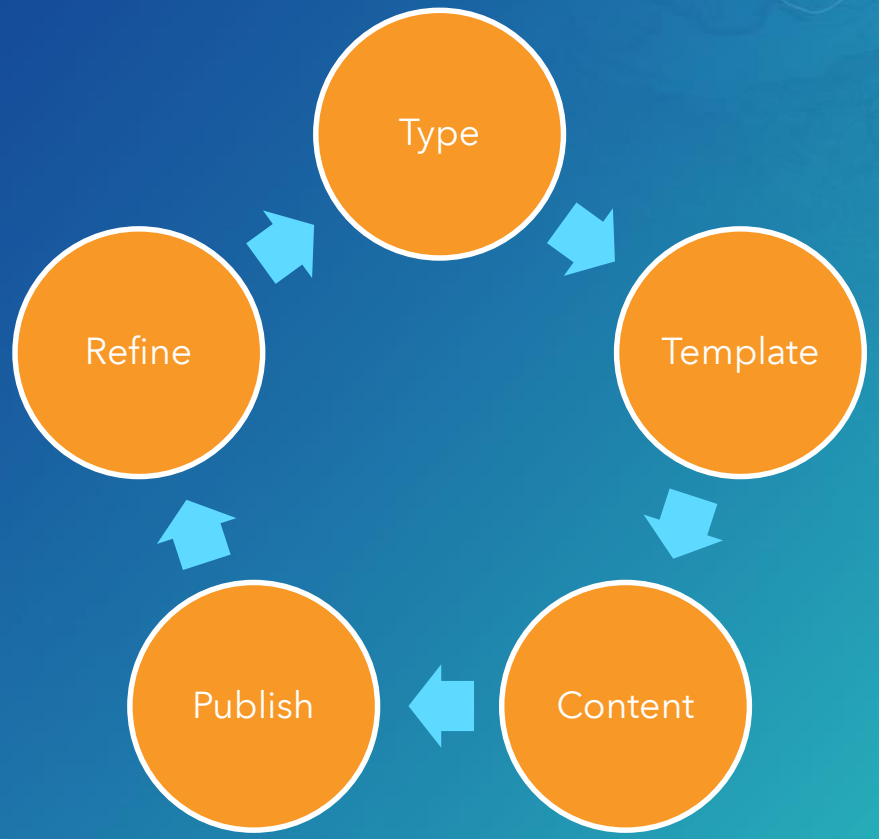
- The whole process
- Types of apps
- App breakdown
- Before you publish
- Where apps live
- Sharing and administration

The app publishing process

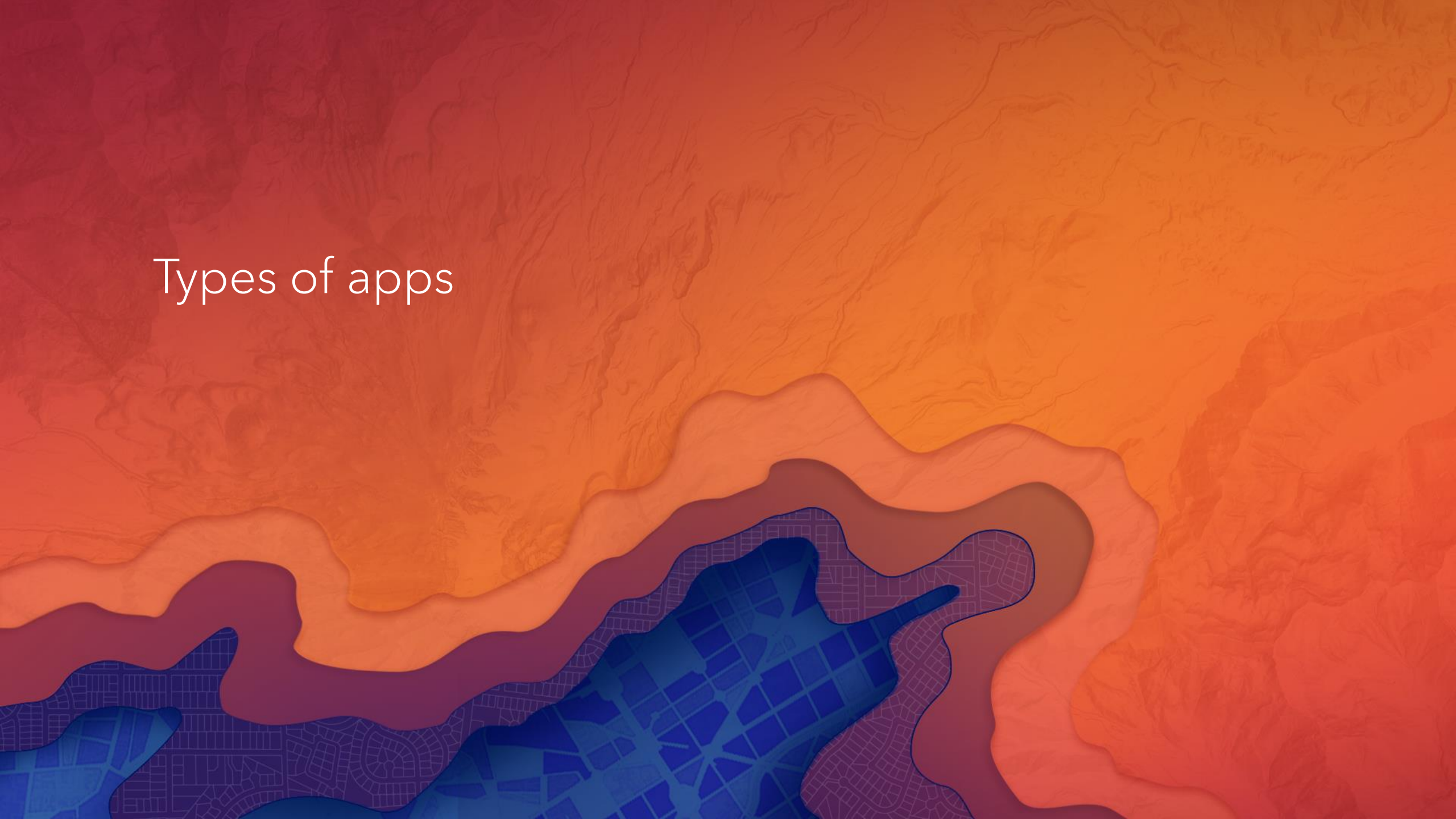


Steps for publishing and app

- Choose a type
- Choose a template
- Assemble content
- Publish
- Refine

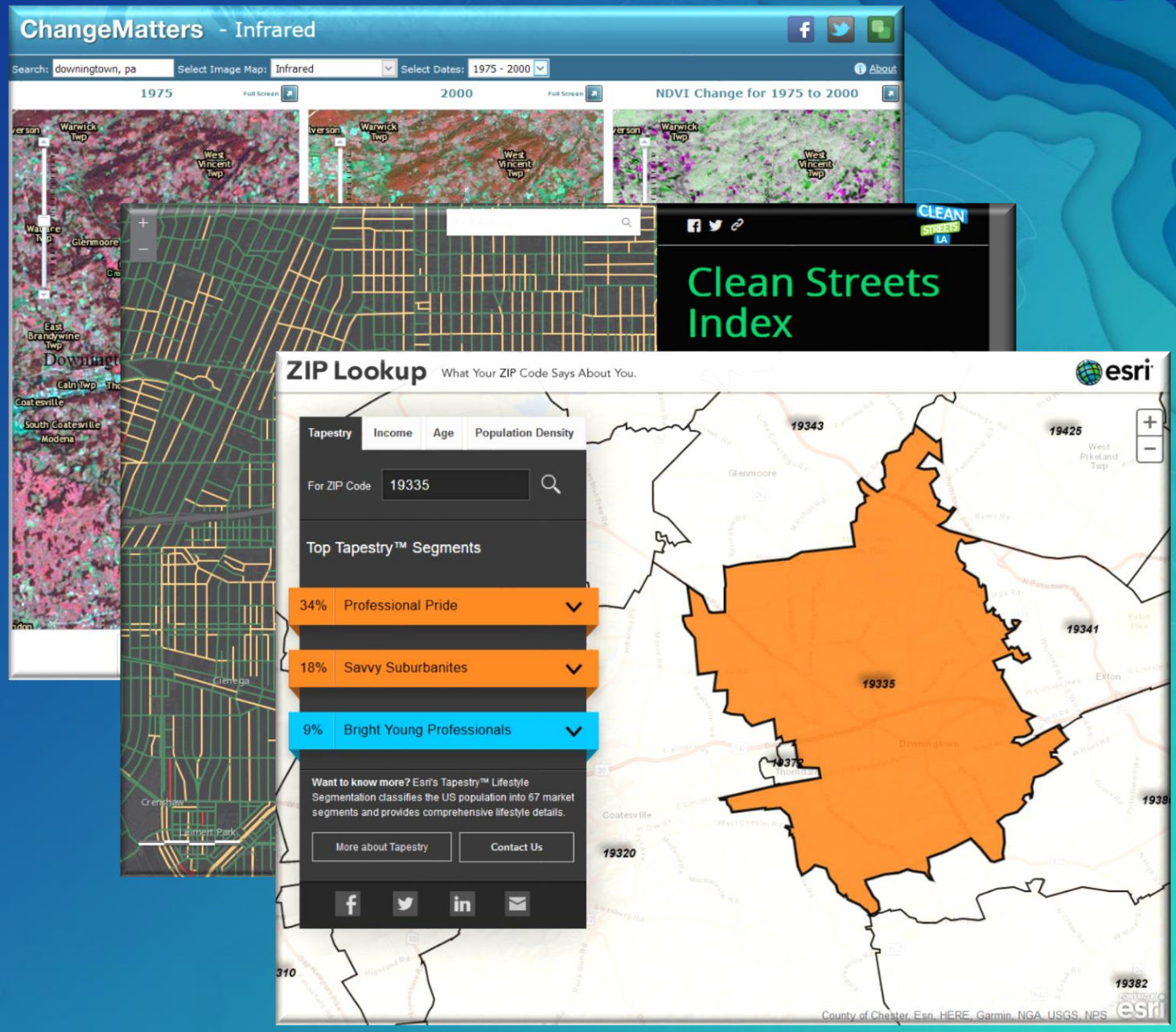


Types of apps



Types: Map-based

- Starting with 2D map
- Many functionality choices
- Layouts
- Color schemes
- Most common type
- Most template choices

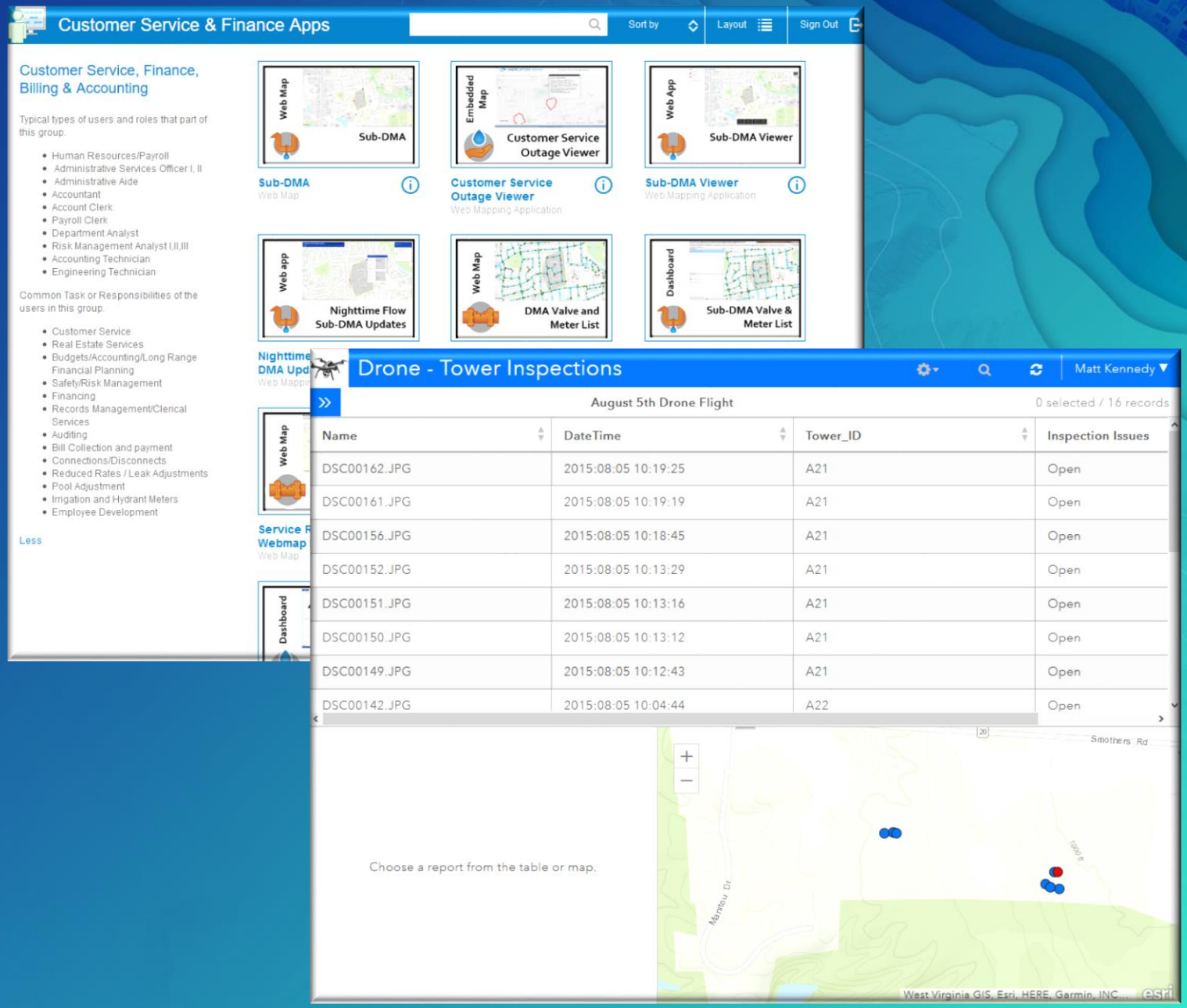


Types: Scene-based

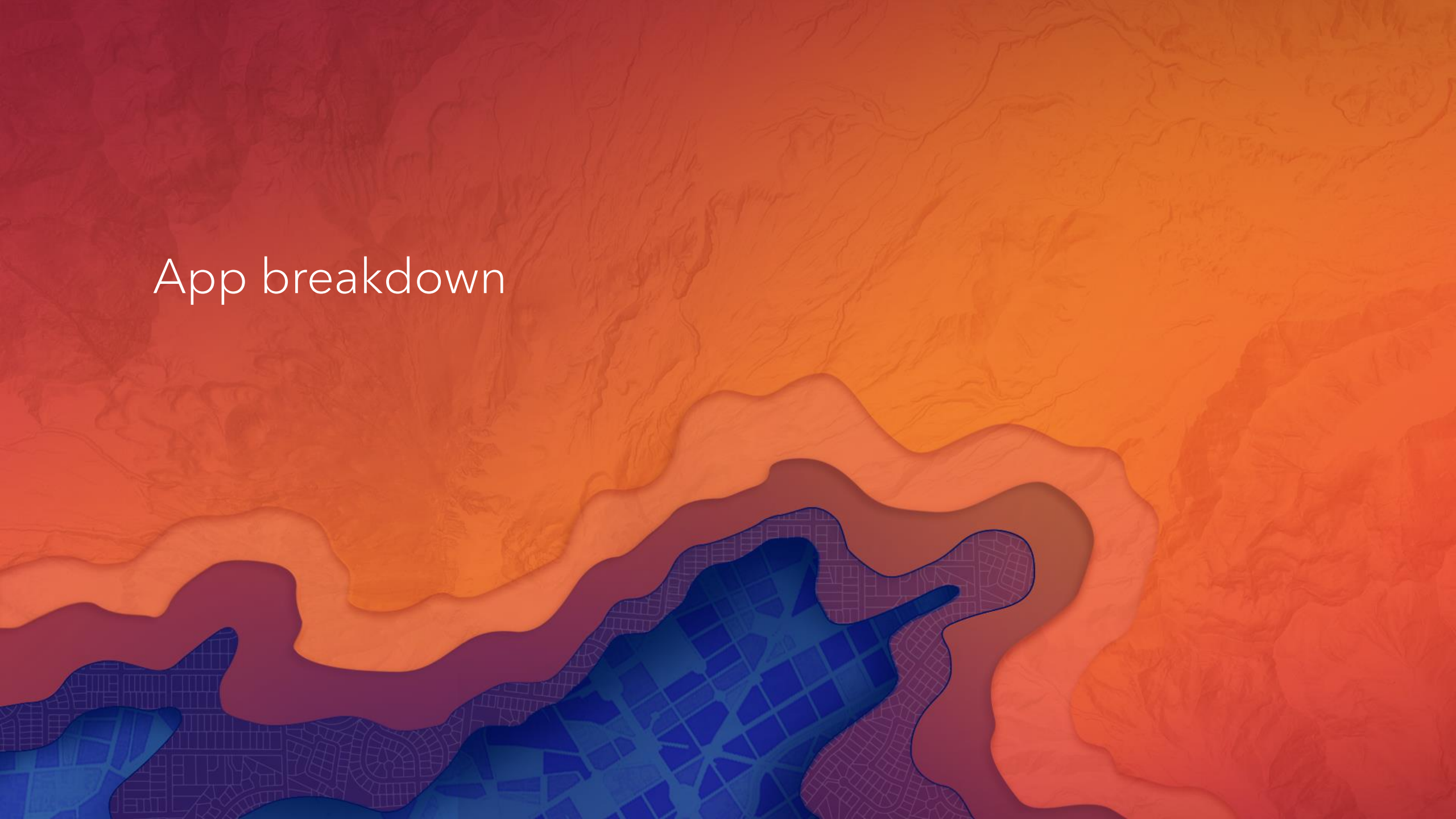
- Starting with a 3D scene
- Scene exploration tools
- Slide view
- Layer control
- Layouts
- Color schemes

Types: Group-based

- Starting with a group
- Provide a gallery of maps
- Crowdsource apps



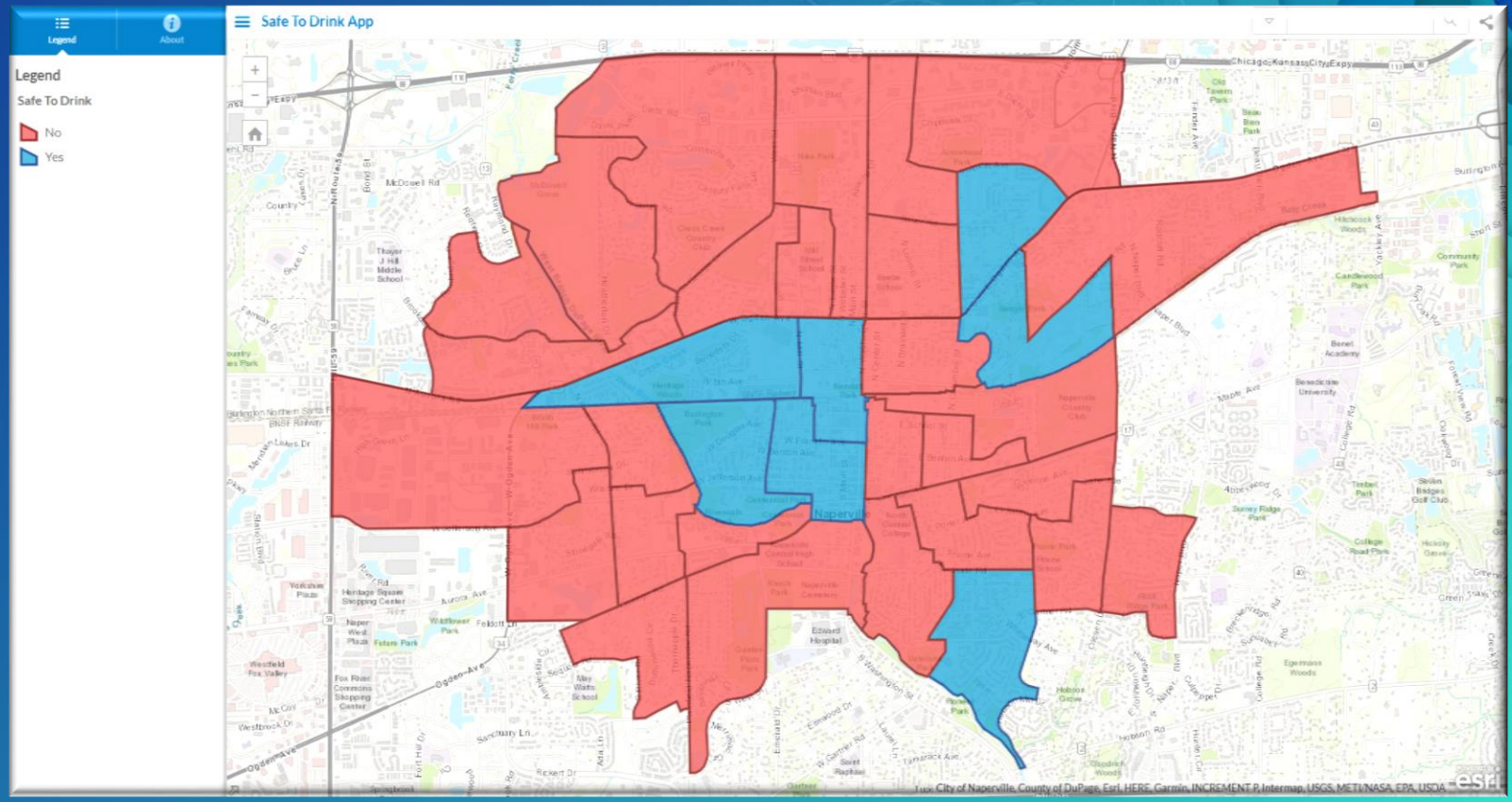
App breakdown



Choosing a template

What best suits the story you want to tell?

- What is the story?
- Who is the audience?
- How much do they know?
- What is needed?
  - Maps
  - Scenes
  - Photos
  - Videos
  - Text



Showcase a map

Choosing a template

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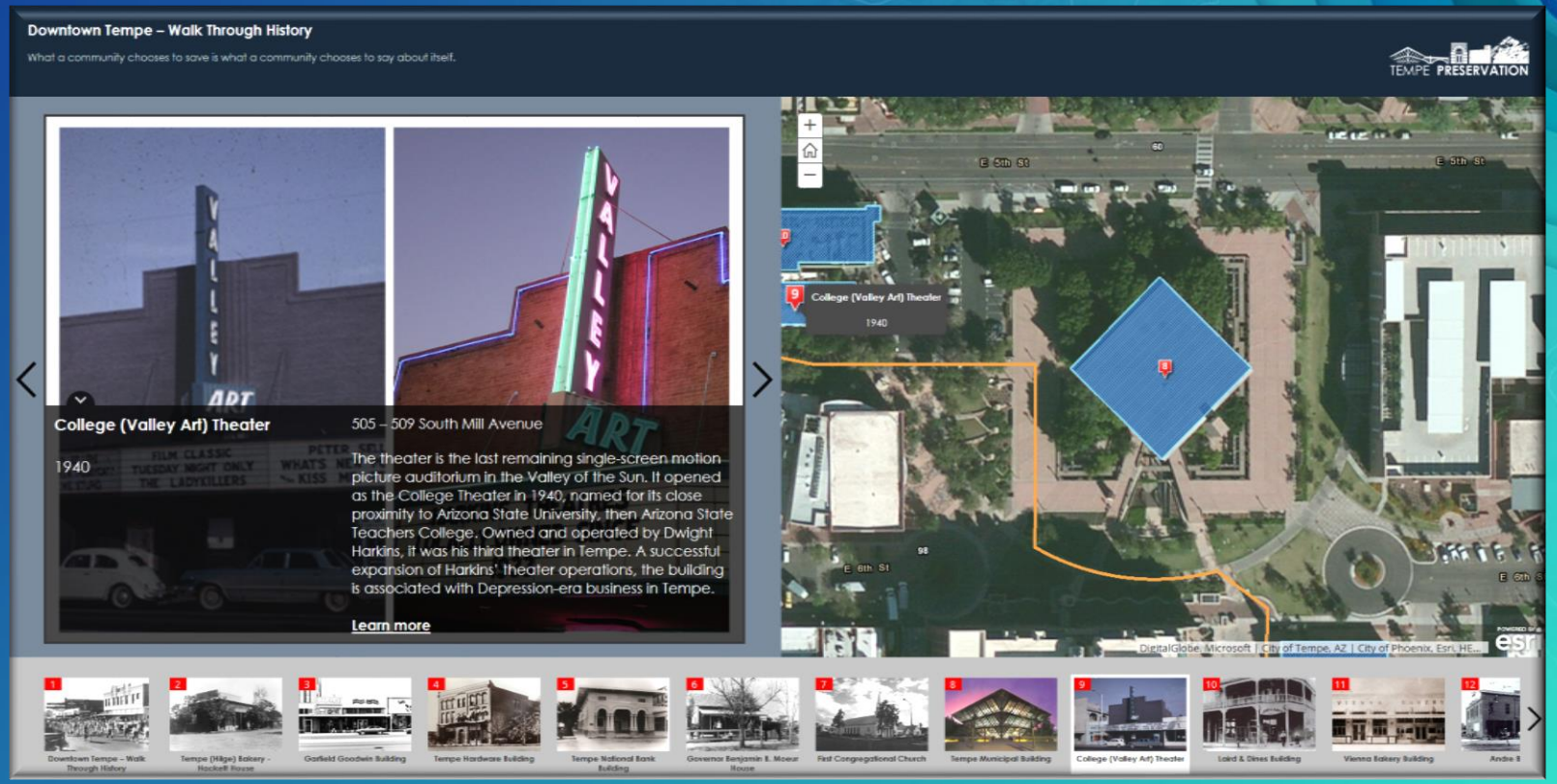

Tell a Story

Choosing a template

What best suits the story you want to tell?

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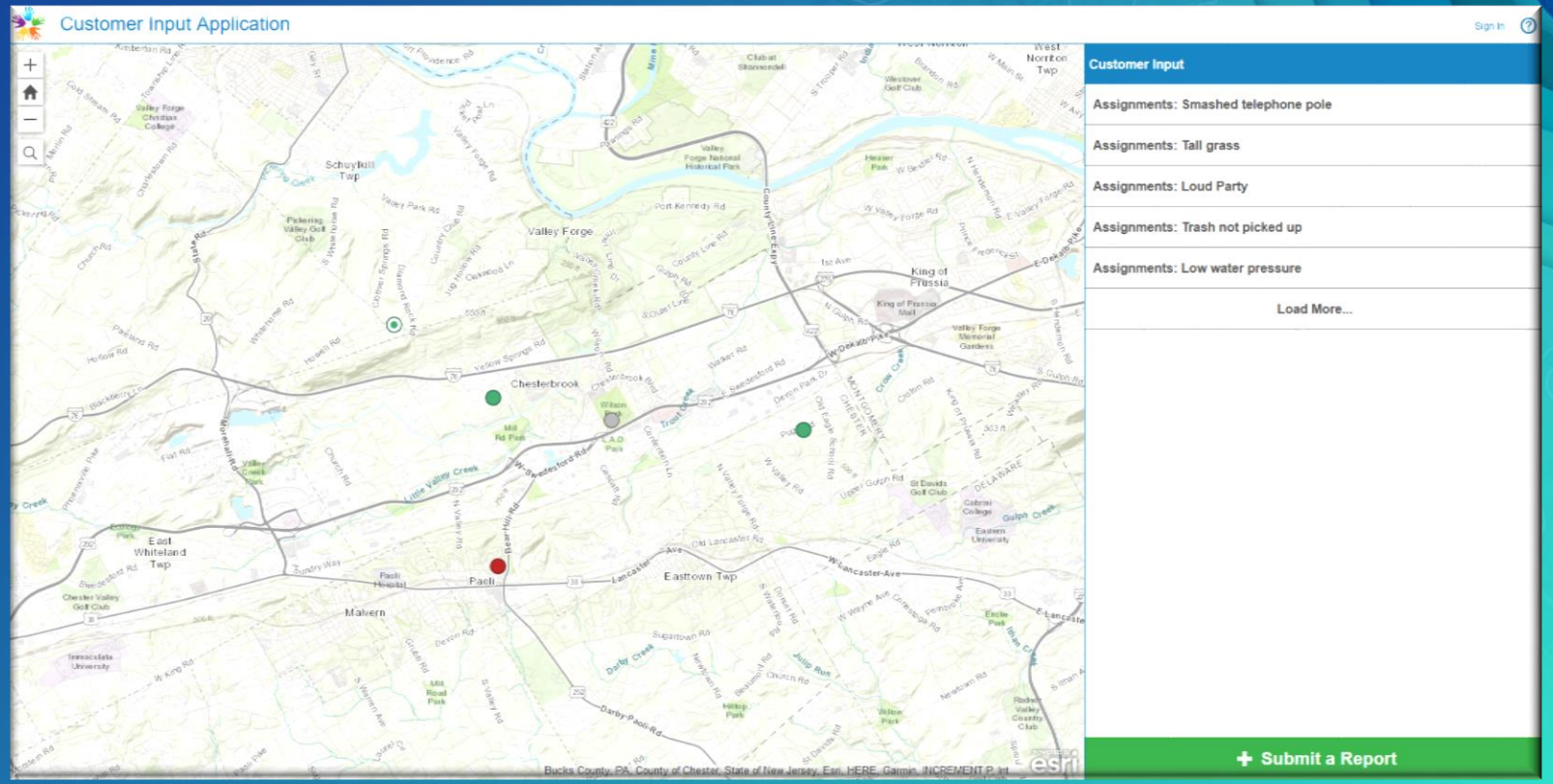
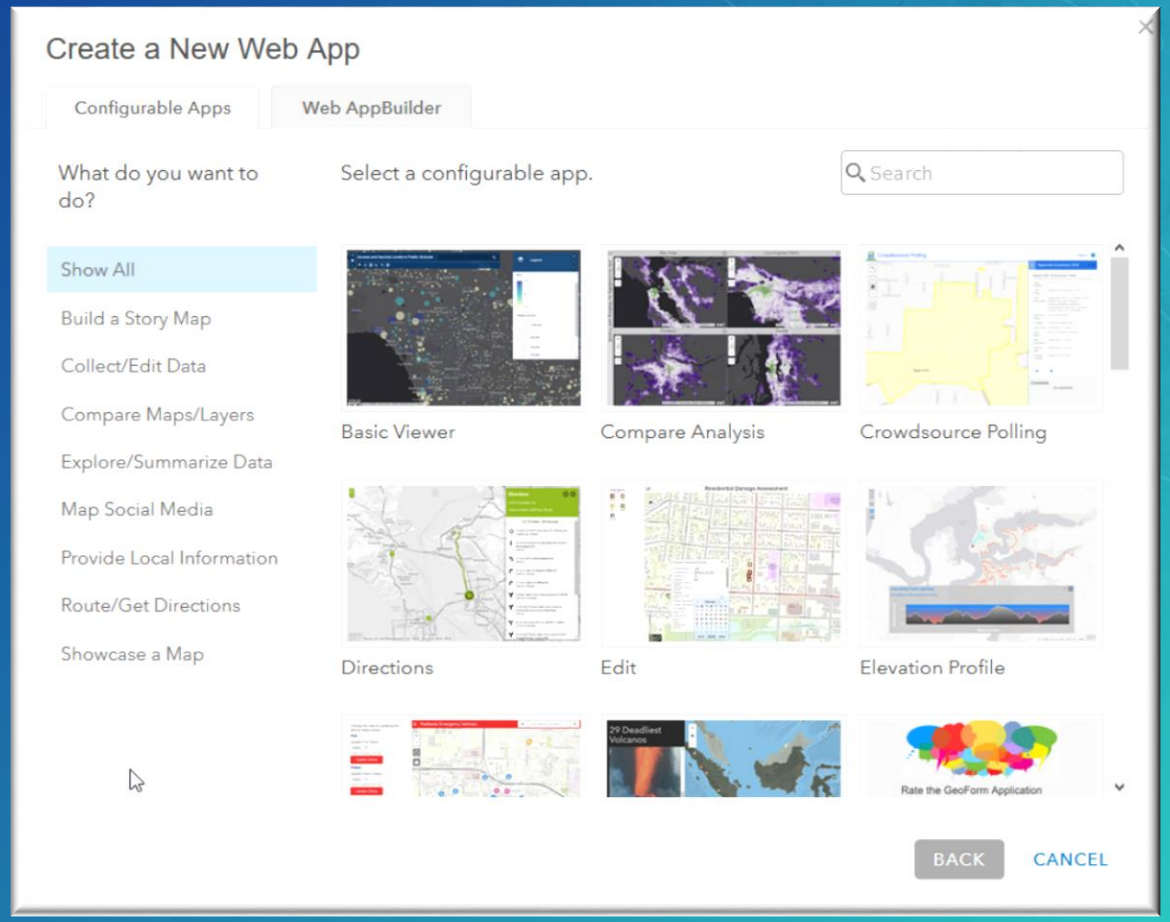


Collect information

Where are the templates?

- Map-based
  - Share a web map
  - 28 to choose from
  - Organized by category
- Scene-based
  - Share a scene
- Group based
  - Share a group



So many choices!

Template	Find My Location	Geosearch	Legend	CSS	Basemaps	Search	Story	Analysis	Themes	Splash Screen	Bookmark	Social Media	Print	Edit	Routing	Demographics	Weather	Enrichment	Time	Table
Basic Viewer	X	X	X	X	X	X			X	X	X		X	X						
Compare Analysis	X			X			X													
Crowdsource Polling	X									X		X								
Directions	X	X						X							X					
Edit	X	X		X	X	X								X						
Elevation Profile		X	X	X	X	X		X	X	X										
Filter	X	X	X	X		X														
Geo Form	X	X			X															
Geo List			X	X																
Impact Summary	X	X	X		X		X	X	X							X		X		
Information Lookup	X	X			X	X		X		X										
Live Maps												X								
Local Perspective	X	X						X							X	X	X			
Map Tools	X	X	X	X	X	X			X		X		X							X
Minimalist		X	X	X	X	X			X											
Public Information	X	X	X		X	X				X	X	X	X							
Simple Map Viewer	X	X	X	X		X			X											
Story Map Basic			X	X			X													
Story Map Cascade							X				X									
Story Map Crowdsource	X						X					X								
Story Map Journal			X				X													
Story Map Series	X		X				X													
Story Map Shortlist		X			X															
Story Map Swipe Sypglass	X	X	X				X													
Story Map Tour							X													
Summary Viewer					X			X												
Time Aware		X	X	X		X													X	

= New template or added capability

I need to know where I am

Apps that allow users to find their location on the map

- Basic Viewer
- Compare Analysis
- Crowdsource Polling
- Directions
- Edit
- Filter
- Geo Form
- Impact Summary
- Information Lookup
- Local Perspective
- Map Tools
- Public Information
- Simple Map Viewer
- Story Map Crowdsource
- Story Map Series
- Story Map Swipe / Spyglass

I need to find addresses

Apps that allow geosearch

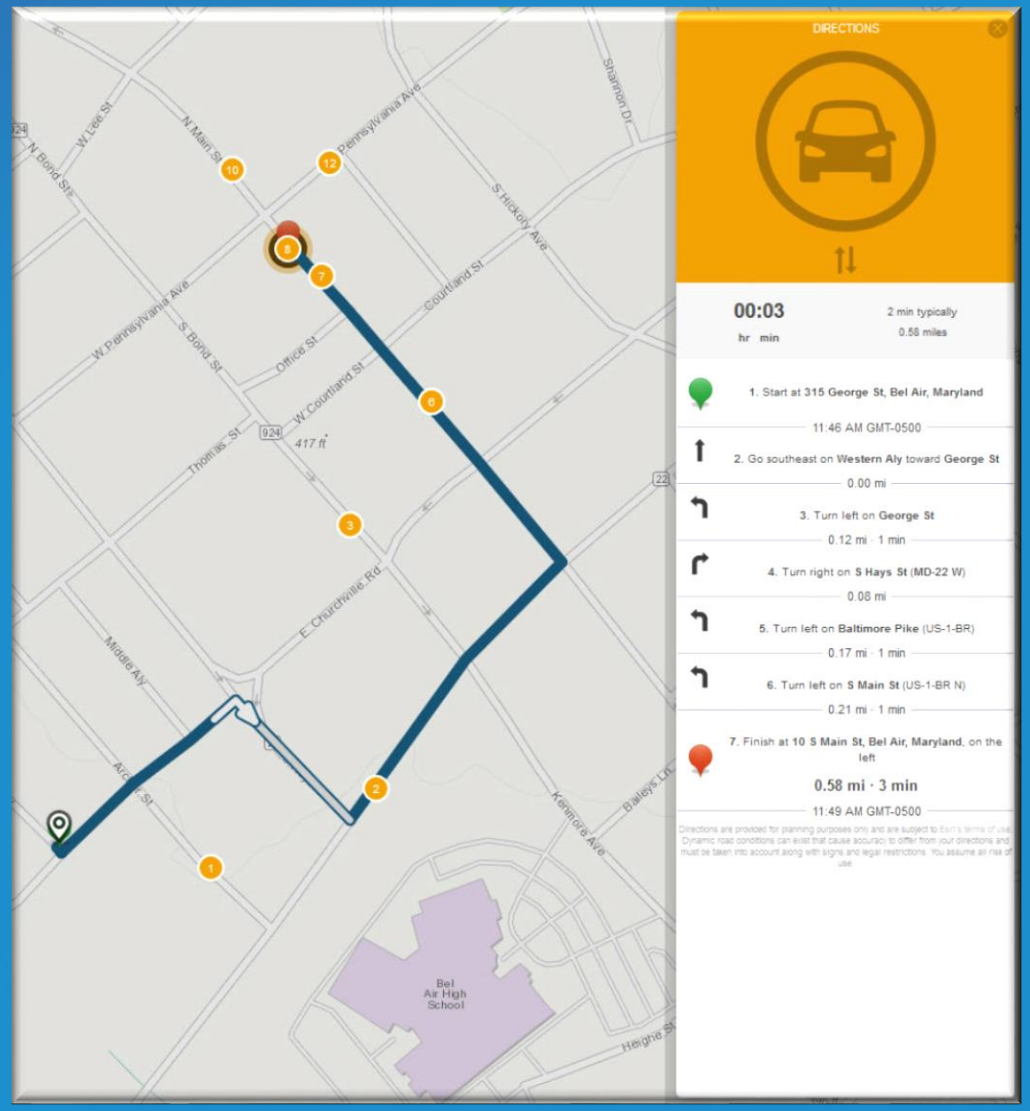
- Basic Viewer
- Directions
- Edit
- Elevation Profile
- Filter
- Geo Form
- Impact Summary
- Information Lookup
- Local Perspective
- Map Tools
- Minimalist
- Public Information
- Simple Map Viewer
- Story Map Shortlist
- Story Map Swipe / Spyglass

I need a route

Apps that provide routes and directions

- Directions
- Local Perspective

*subscription required

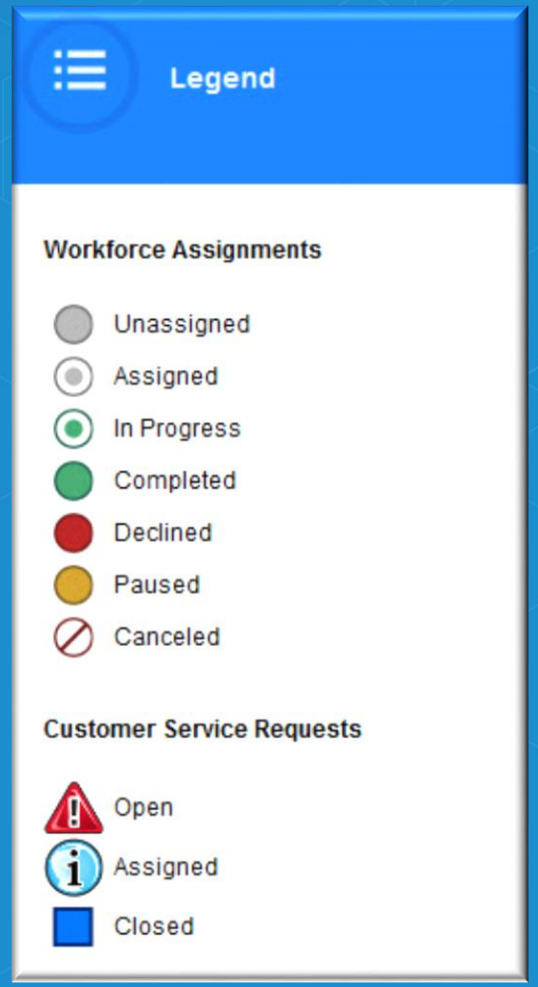


I need a legend

Apps that provide a legend

- Basic Viewer
- Elevation Profile
- Filter
- Geo List
- Impact Summary
- Map Tools
- Minimalist
- Public Information
- Simple Map Viewer
- Time Aware

- Story Maps
  - Basic
  - Journal
  - Map Series
  - Swipe / Spyglass



I need to change basemaps

Apps that can toggle basemaps

- Basic Viewer
- Edit
- Elevation Profile
- Geo Form
- Impact Summary
- Information Lookup
- Map Tools
- Minimalist
- Public Information
- Story Map Shortlist
- Summary Viewer

I need to search

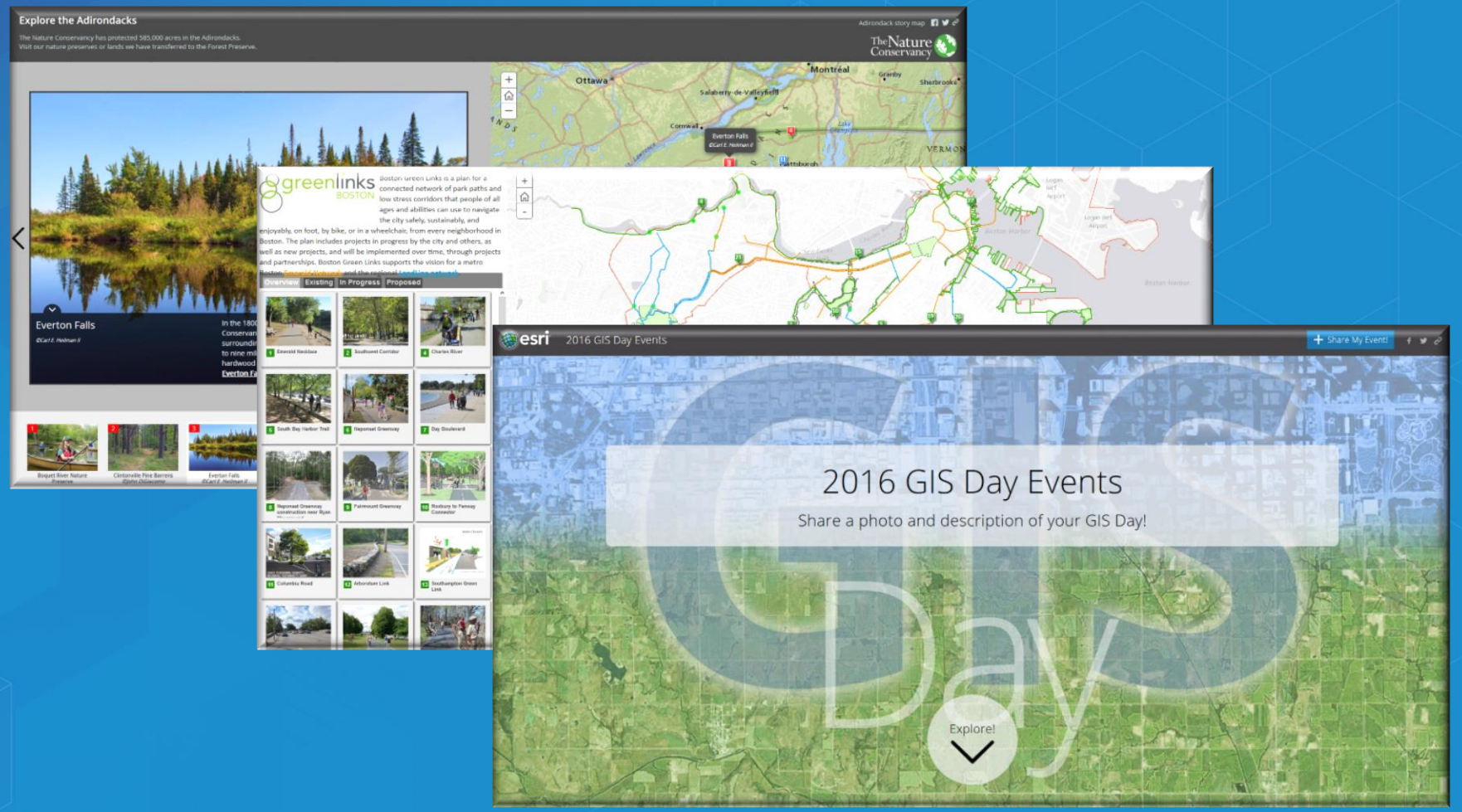
Apps that provide layer search

- Basic Viewer
- Edit
- Elevation Profile
- Filter
- Information Lookup
- Map Tools
- Minimalist
- Public Information
- Simple Map Viewer
- Time Aware

I need to tell a story

Apps that provide narrative

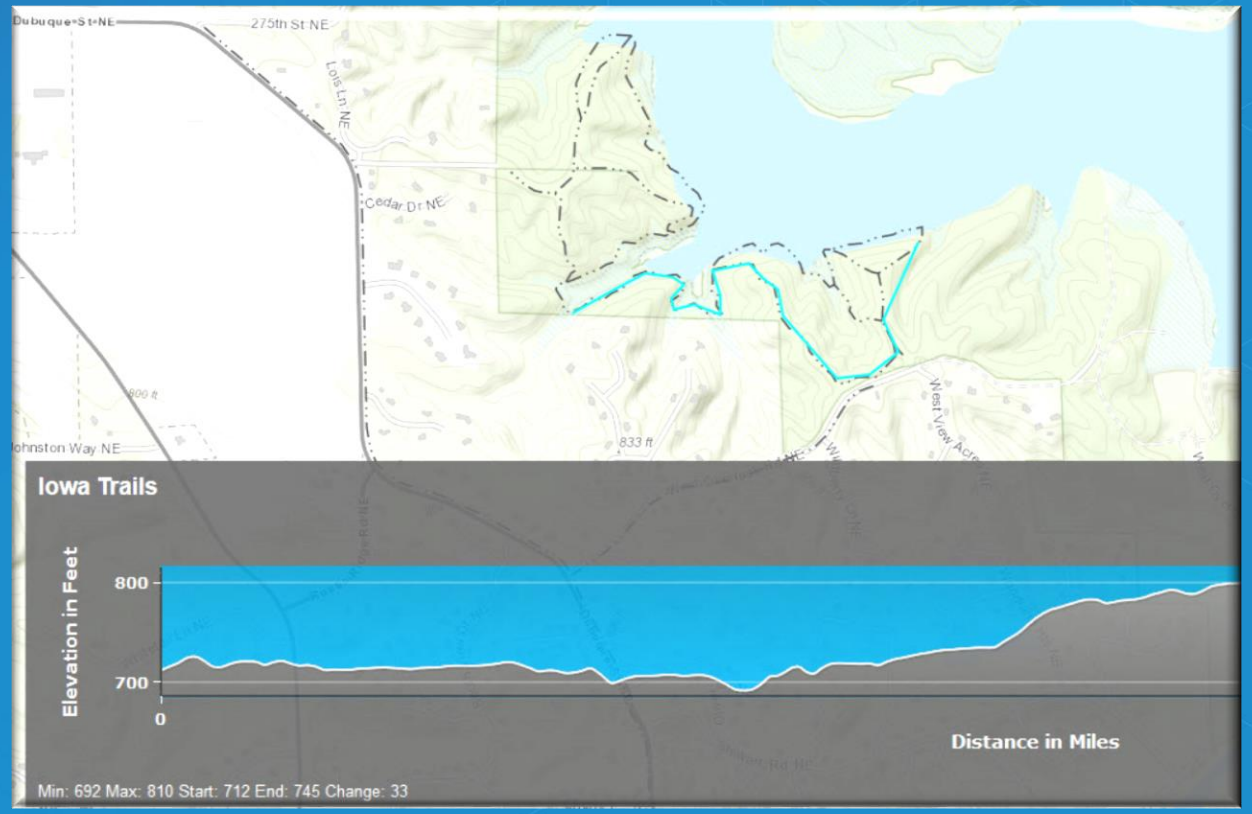
- Story Maps
  - Basic
  - Cascade
  - Crowdsource
  - Map Journal
  - Map Series
  - Shortlist
  - Swipe / Spyglass
  - Tour
- Compare Analysis
- Impact Summary



I need analysis

Apps that have analysis / geoprocessing capability

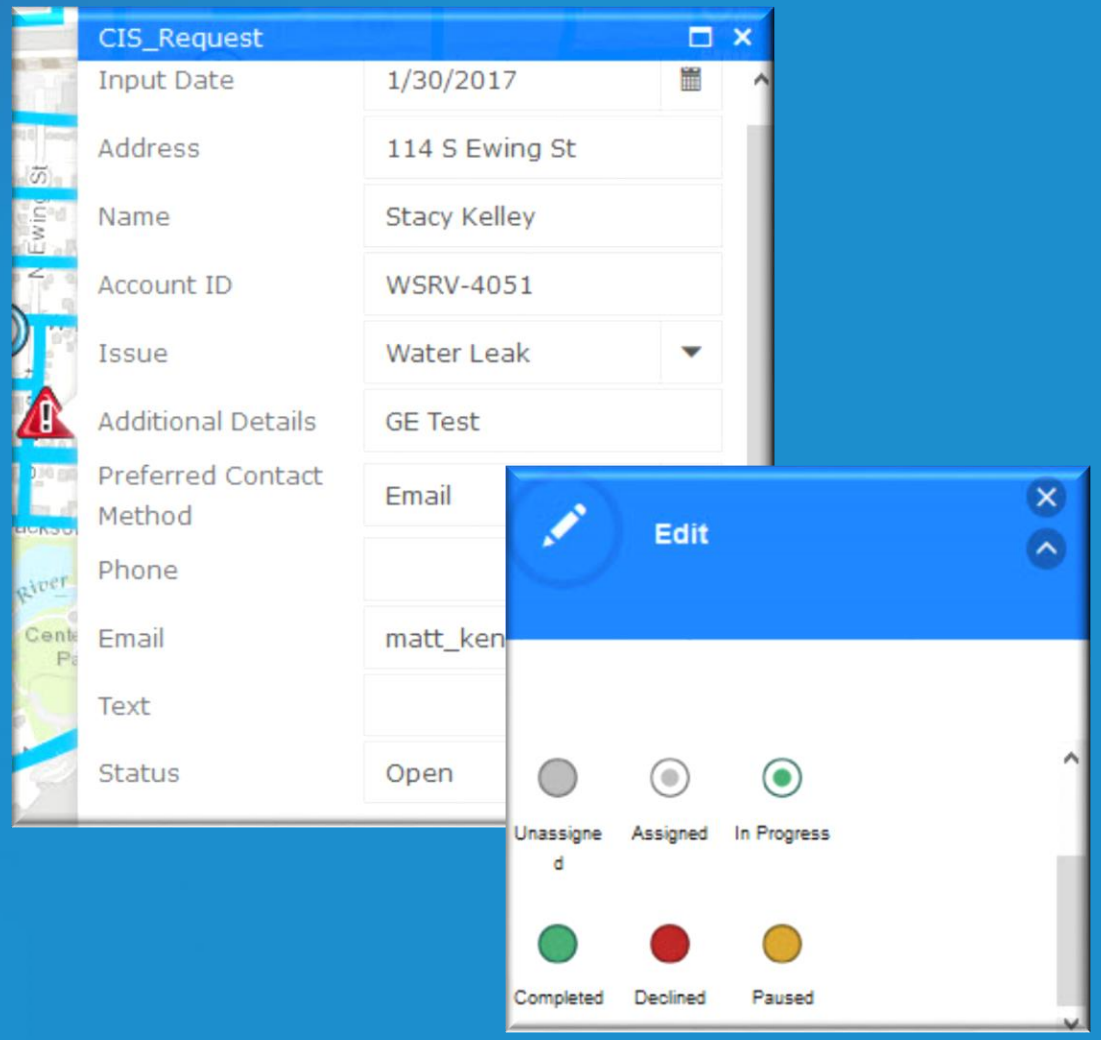
- Directions
- Elevation Profile
- Impact Summary
- Information Lookup
- Local Perspective
- Summary Viewer



I need to edit

Apps that allow feature and attribute editing

- **Basic Viewer**
- **Edit**



I need to print

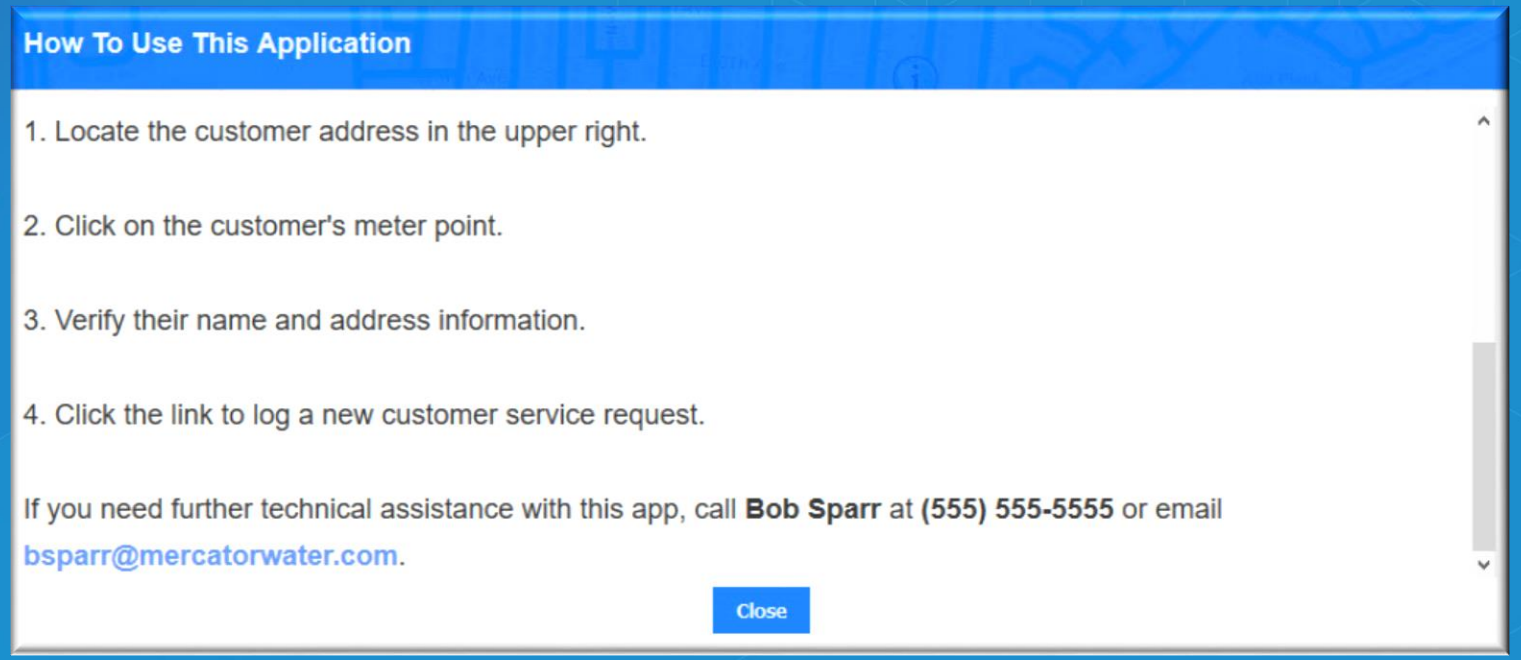
Apps that allow printing

- **Basic Viewer**
- **Map Tools**
- **Public Information**

I need a splash screen

Apps that let you show a disclaimer upon launch

- Basic Viewer
- Crowdsource Polling
- Elevation Profile
- Information Lookup
- Public Information



Find more templates

http://storymaps.arcgis.com

Find more templates

http://solutions.arcgis.com

What if I need functions from 2 or more of these templates?!?

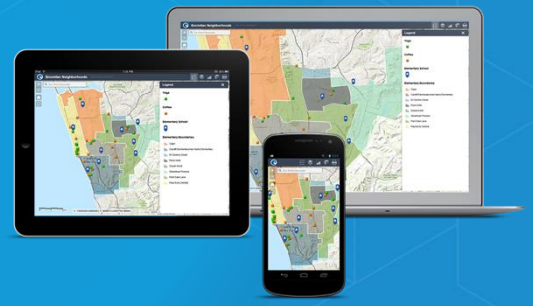
Then you need Web AppBuilder

- **Similar workflow**
- **30 + widgets**
- **WYSIWYG configuration**
- **Same hosting options**
- **Don’t over do it!**

Web AppBuilder

Builder

Widgets



HTML5/JavaScript

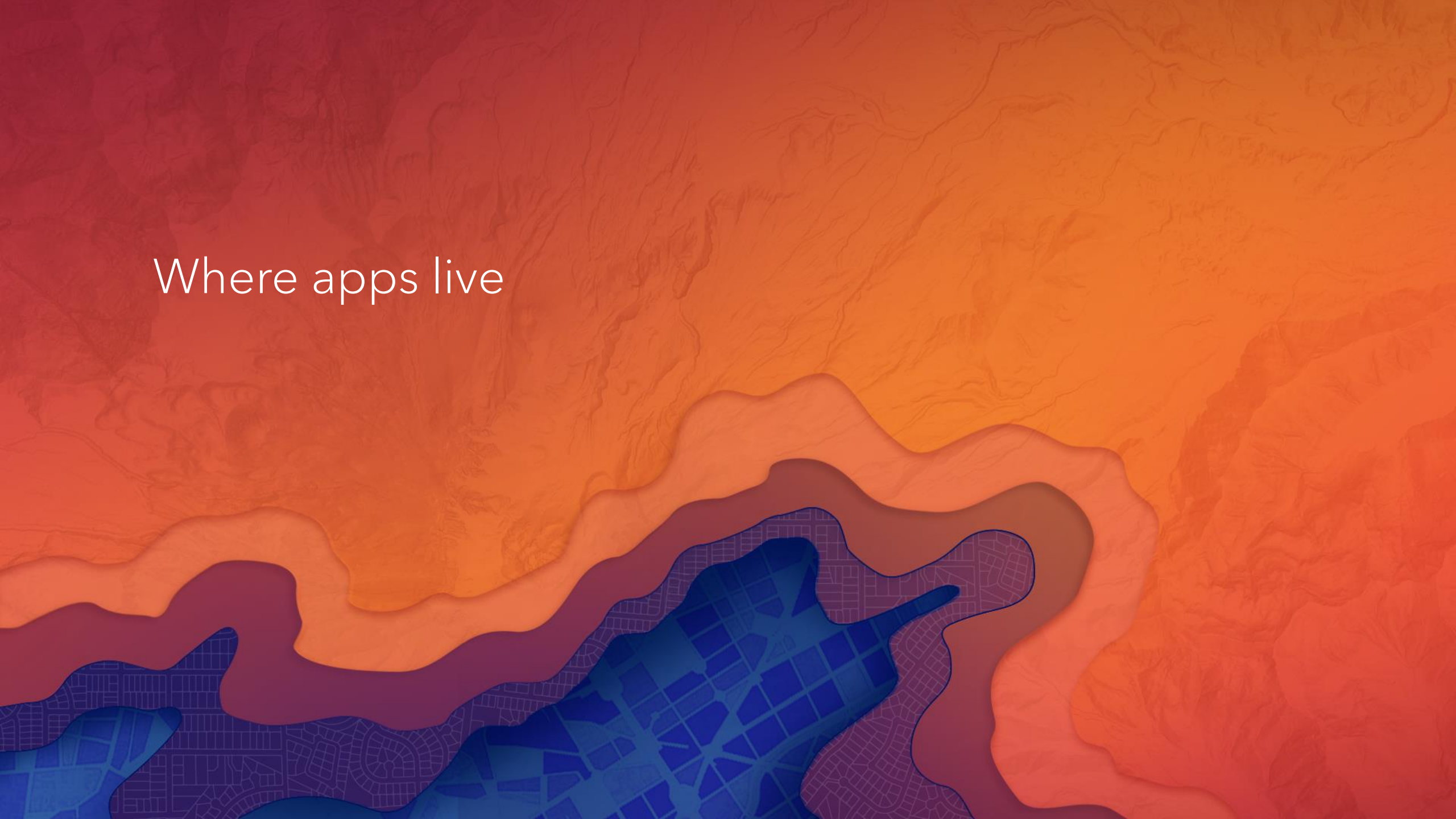
Before you publish

Important map and layer properties

What you set in the map makes it to the app!

- **Search - example**
- **Bookmarks**
- **Time**
- **Copy layers**
- **Enable / disable editing - example**
- **Labels**
- **Refresh interval**
- **URL parameters – example**

Where apps live

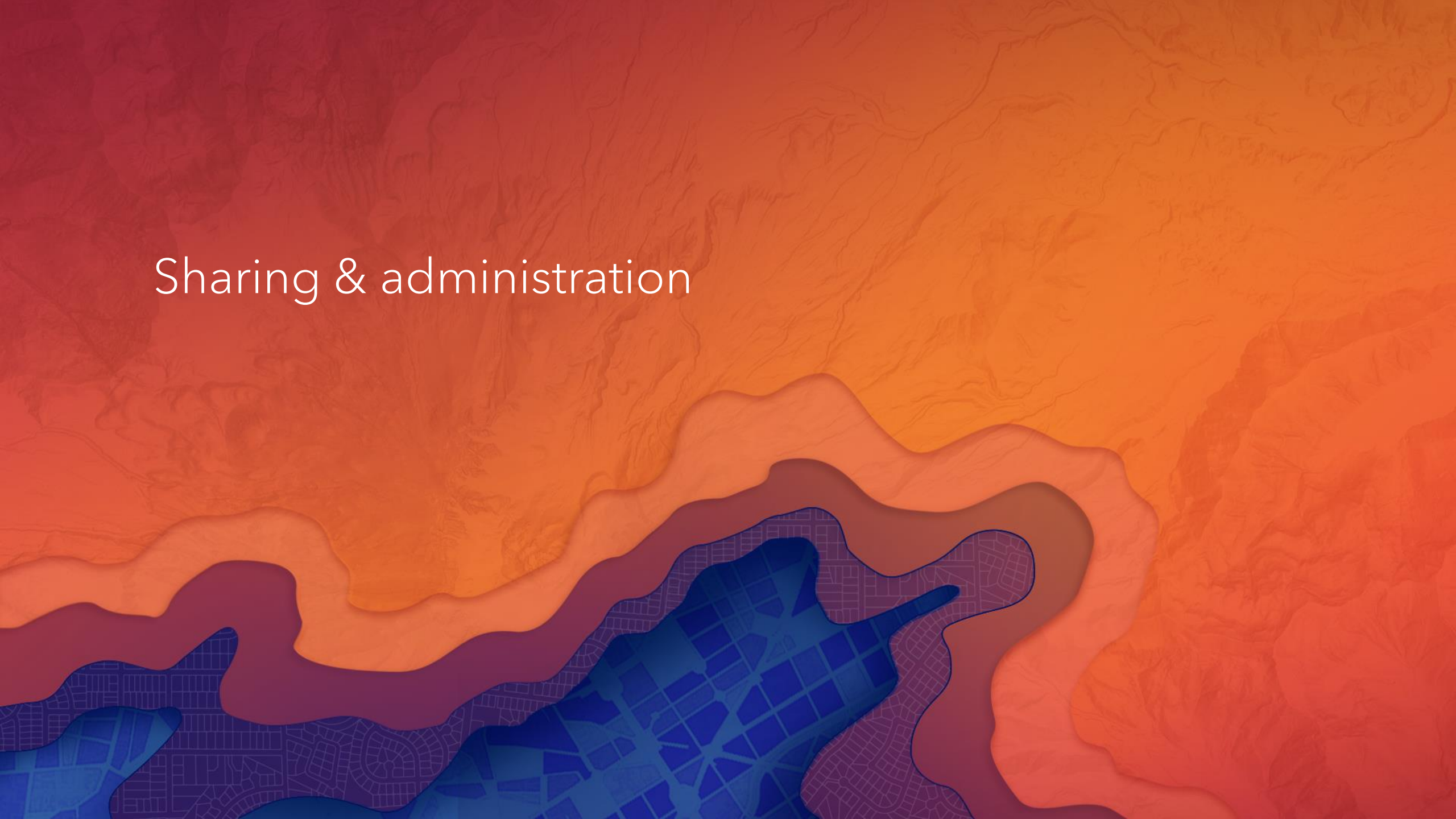


Deployment Considerations

- **ArcGIS Online**
  - Highly scalable, cloud environment
  - No web server required
  - Apps update when portal updates

- **On premise**
  - IT legwork required
  - Web server required
  - Must update apps manually

Sharing & administration

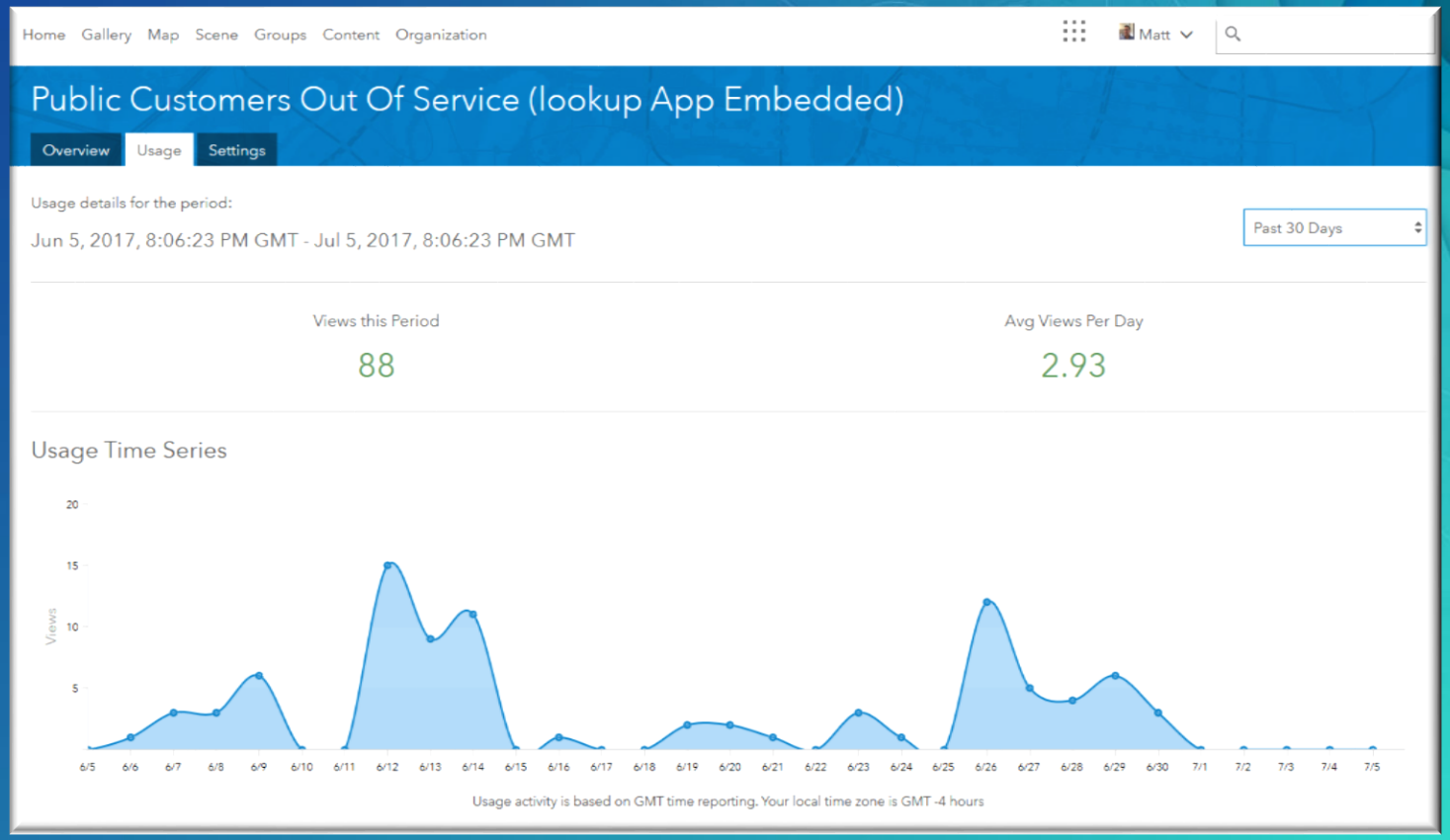


Sharing apps – what you have accomplished

- Simple, focused interface
- Fits map's purpose, message, & audience
- Updating the map, scene, or group updates the app, too
- Unsharing an item from a map also hides it from the app
- (Optional) Include Subscriber and Premium content in apps
  - Requires a subscription identity
  - Access to Premium content consumes credits
    - Keep this in mind when deciding whether to include Premium content in public facing apps

Administering apps

- **Monitor app usage**
  - **Is anyone using this app???**
  - **Available from My Content**



- View Stats
  - Who's using what???
    - Apps, content, credits, etc…
  - Fine grained details
  - Must be an administrator

Administering apps

- Monitor app usage
  - Is anyone using this app???
  - Available from My Content

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  - **Who's using what???**
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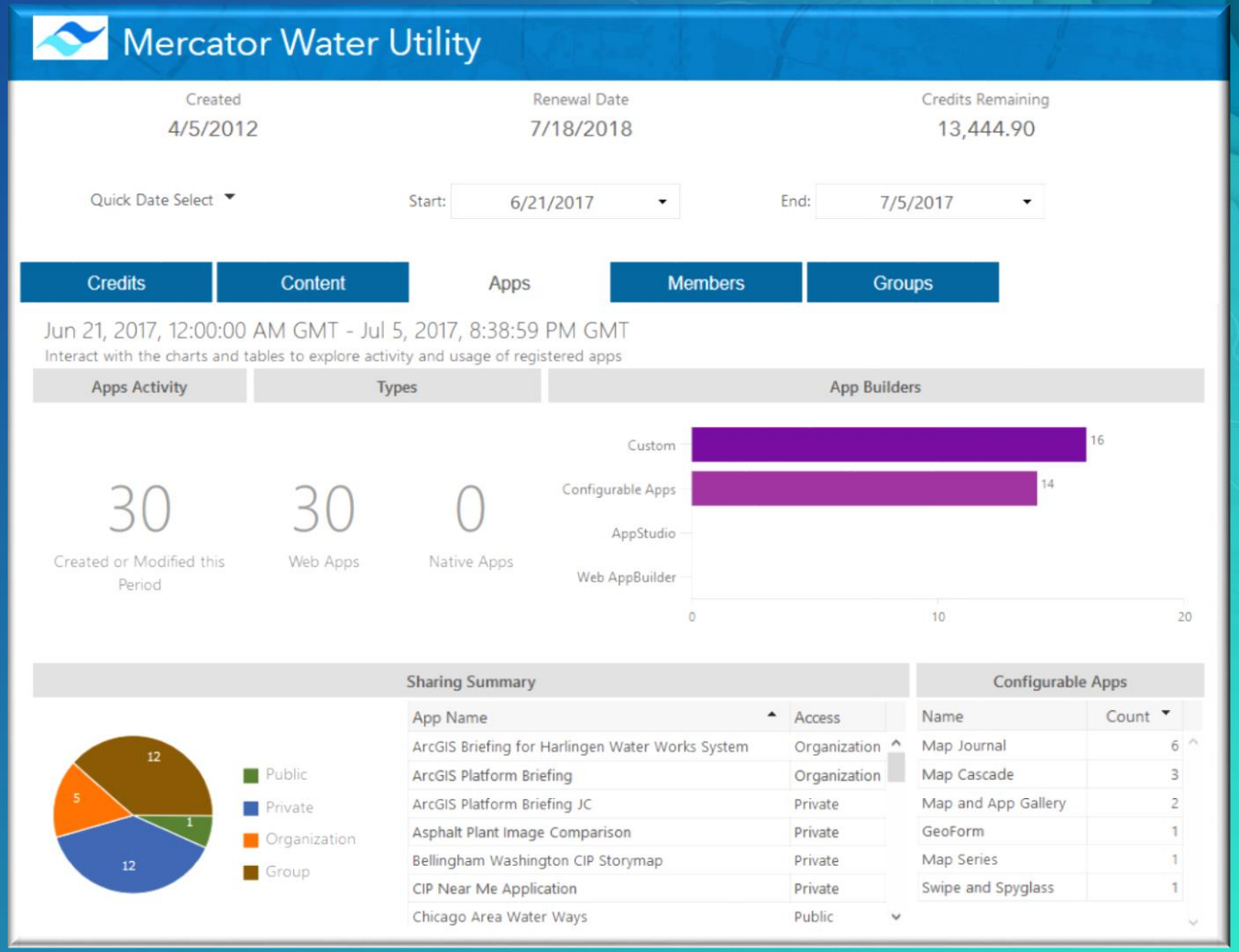
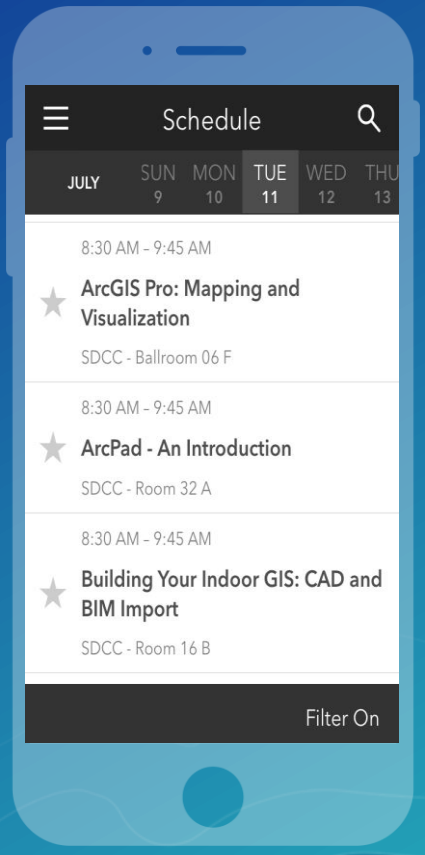


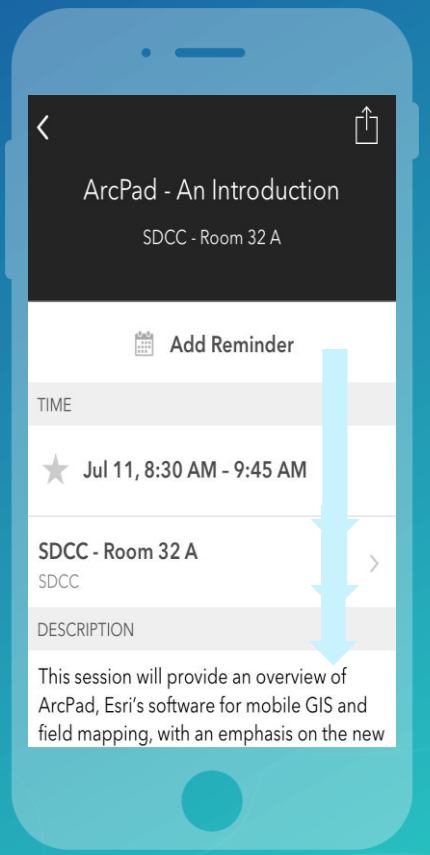
Please Take Our Survey on the **Esri Events App!**

Download the Esri Events app and find your event

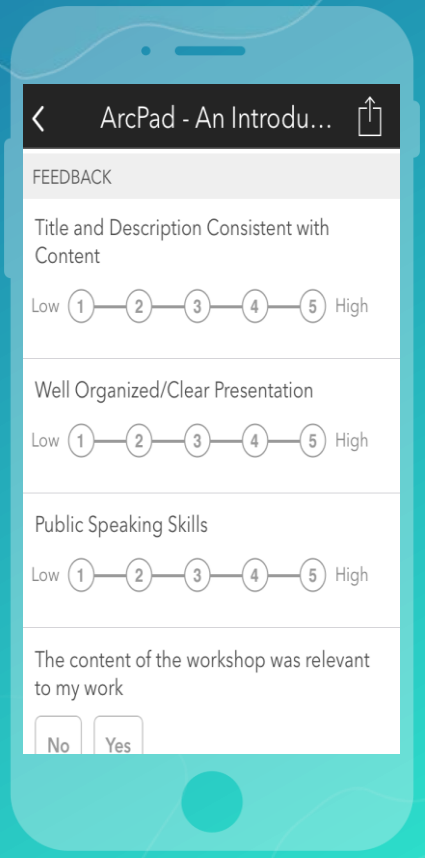
Select the session you attended



Scroll down to find the survey



Complete Answers and Select "Submit"



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