

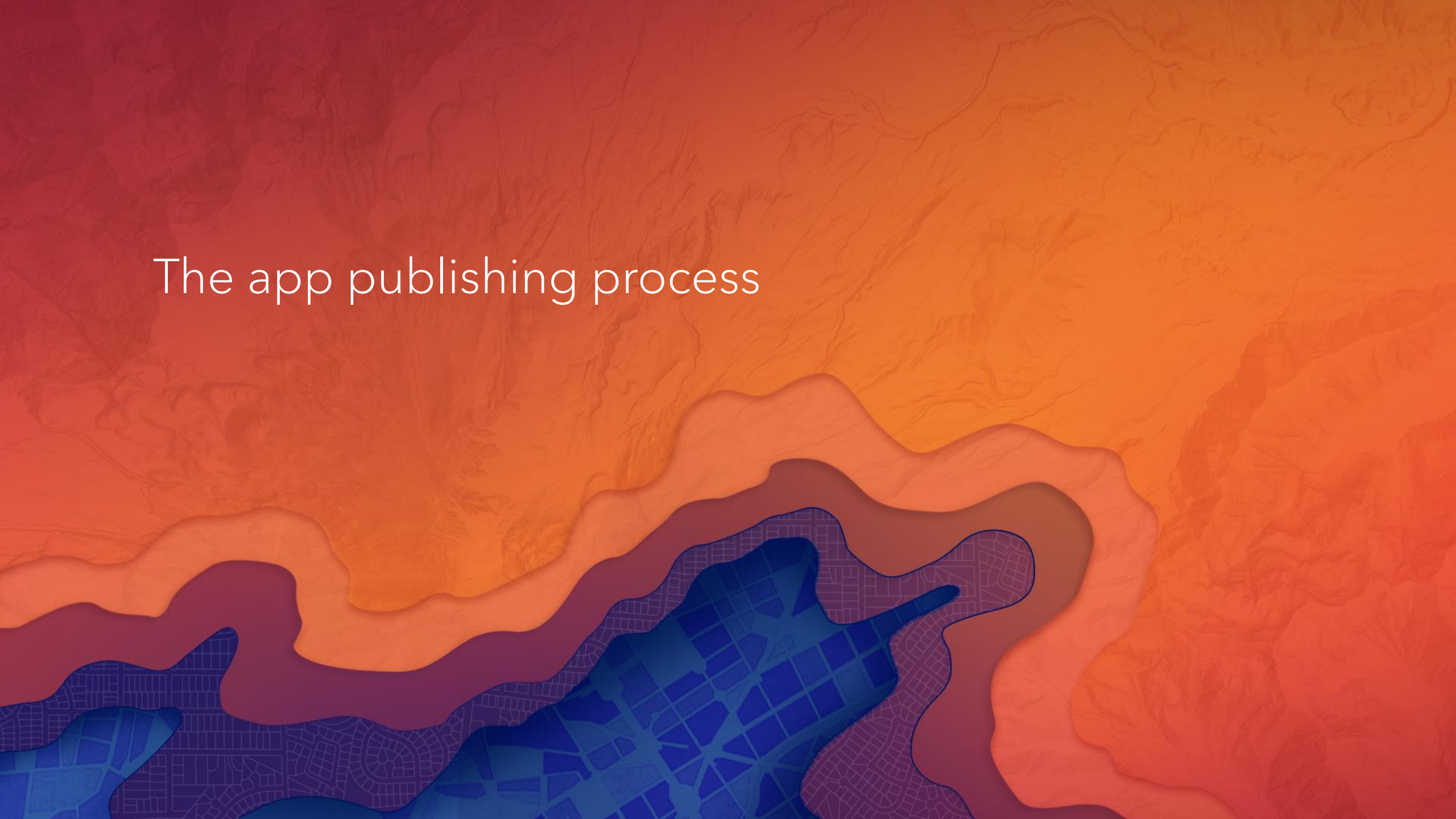
# Creating Apps Using ArcGIS Online Templates

Matt Kennedy

# Agenda

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

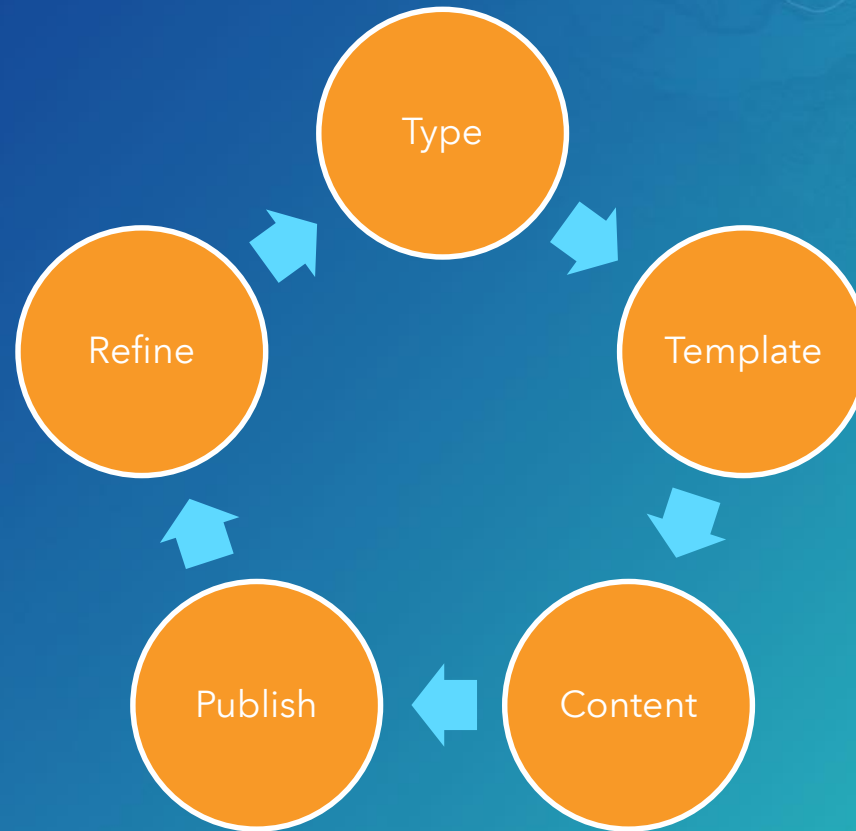
# The app publishing process



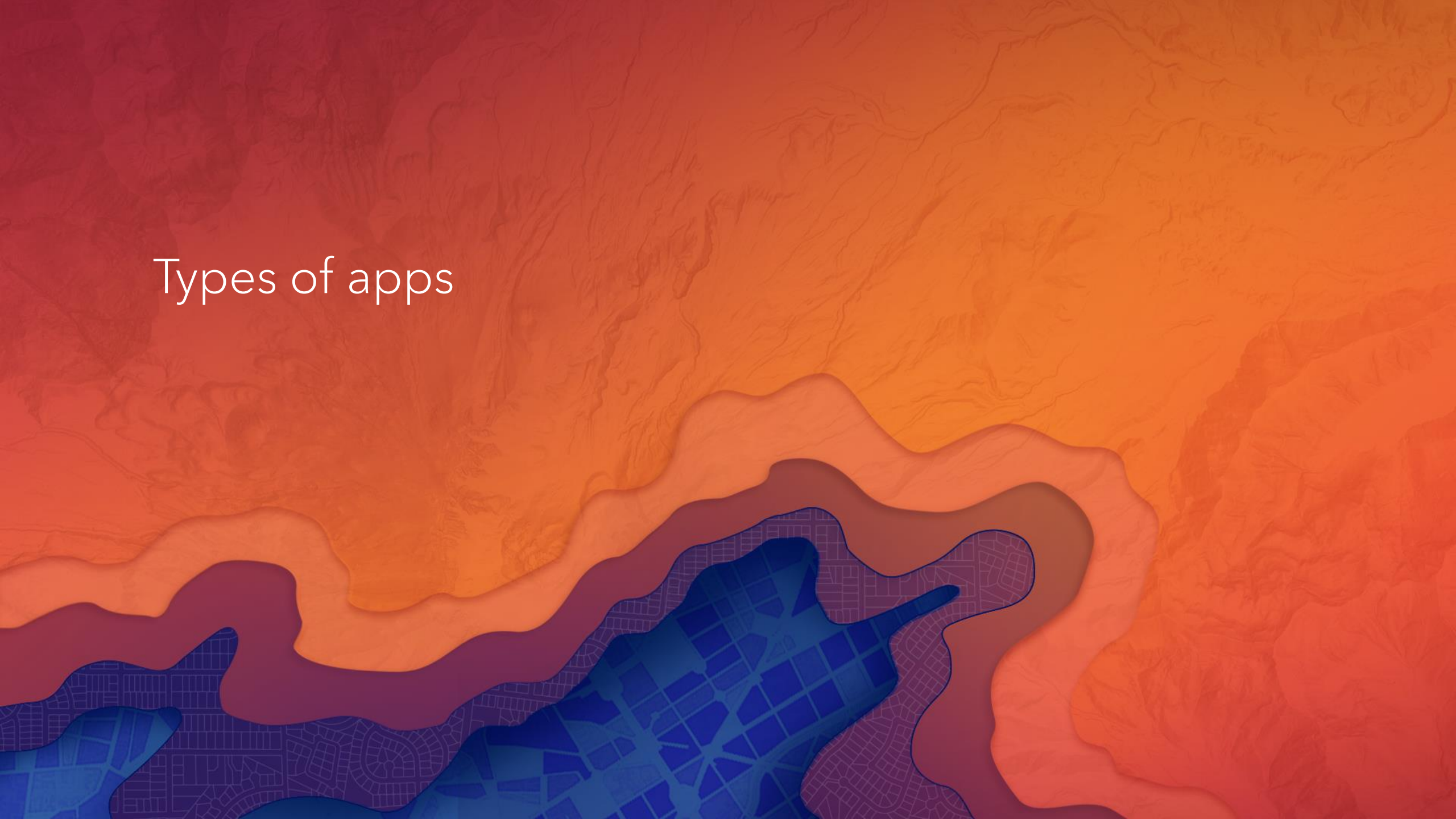


# Steps for publishing and app

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



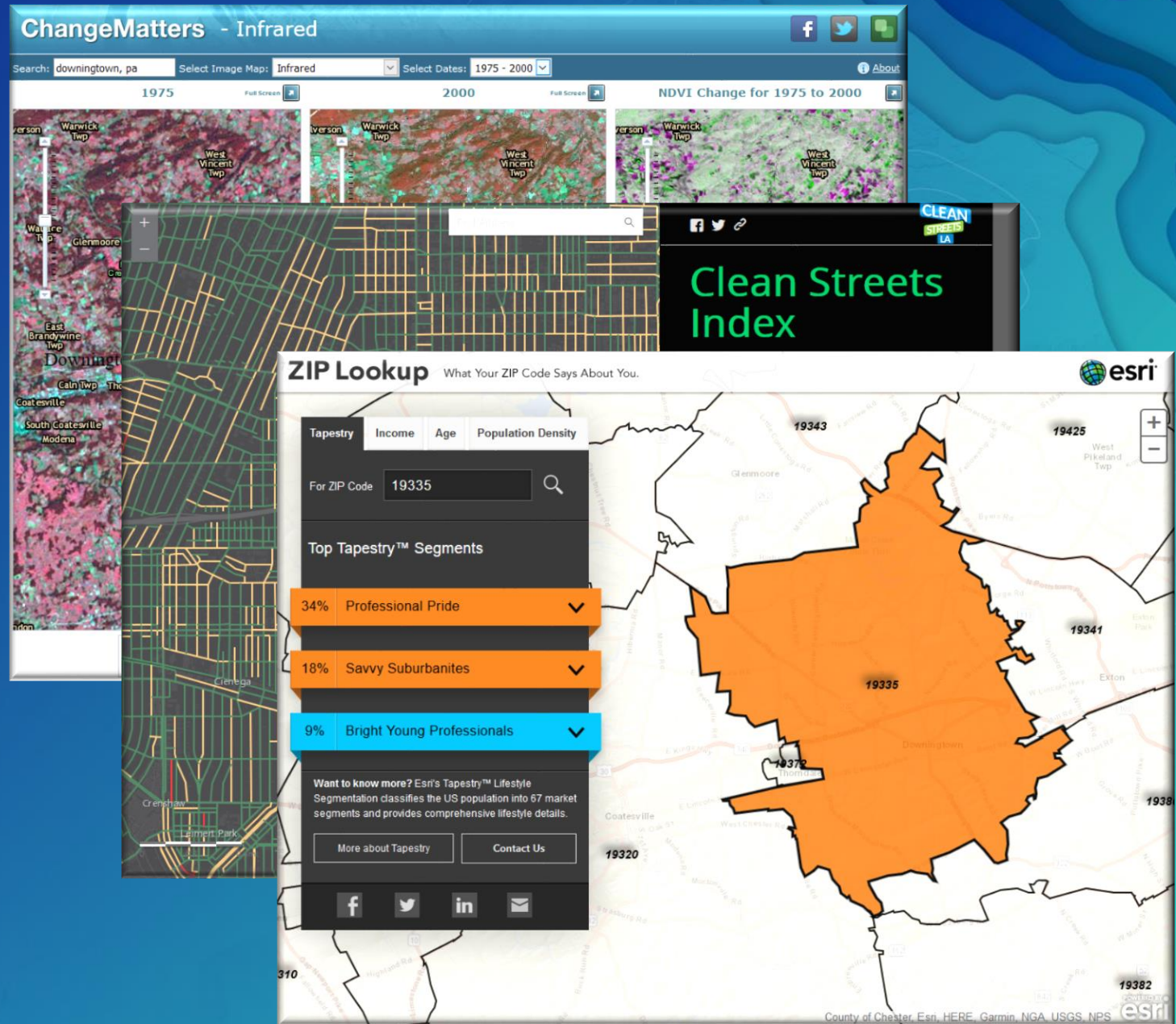
# Types of apps





# 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
- Crowdsourced apps

Customer Service & Finance Apps

Customer Service, Finance, Billing & Accounting

Typical types of users and roles that part of this group.

- Human Resources/Payroll
- Administrative Services Officer I, II
- Administrative Aide
- Accountant
- Account Clerk
- Payroll Clerk
- Department Analyst
- Risk Management Analyst I, II, III
- Accounting Technician
- Engineering Technician

Common Task or Responsibilities of the users in this group.

- Customer Service
- Real Estate Services
- Budgets/Accounting/Long Range Financial Planning
- Safety/Risk Management
- Financing
- Records Management/Clerical Services
- Auditing
- Bill Collection and payment
- Connections/Disconnects
- Reduced Rates / Leak Adjustments
- Pool Adjustment
- Irrigation and Hydrant Meters
- Employee Development

Less

Sub-DMA Web Map

Customer Service Outage Viewer Web Mapping Application

Sub-DMA Viewer Web Mapping Application

Nighttime Flow Sub-DMA Updates Web Map

DMA Valve and Meter List Web Map

Sub-DMA Valve & Meter List Dashboard

Drone - Tower Inspections

August 5th Drone Flight

0 selected / 16 records

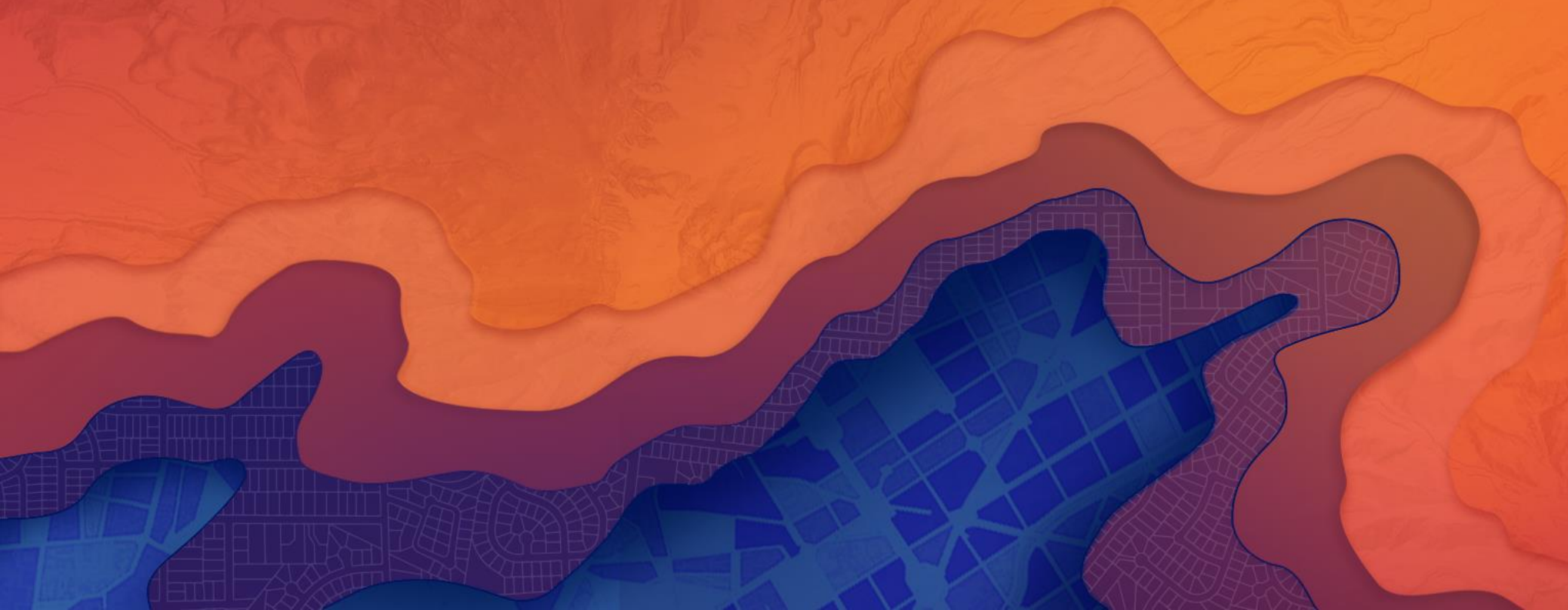
Name	DateTime	Tower_ID	Inspection Issues
DSC00162.JPG	2015:08:05 10:19:25	A21	Open
DSC00161.JPG	2015:08:05 10:19:19	A21	Open
DSC00156.JPG	2015:08:05 10:18:45	A21	Open
DSC00152.JPG	2015:08:05 10:13:29	A21	Open
DSC00151.JPG	2015:08:05 10:13:16	A21	Open
DSC00150.JPG	2015:08:05 10:13:12	A21	Open
DSC00149.JPG	2015:08:05 10:12:43	A21	Open
DSC00142.JPG	2015:08:05 10:04:44	A22	Open

Choose a report from the table or map.

West Virginia GIS, Esri, HERE, Garmin, INC... Esri



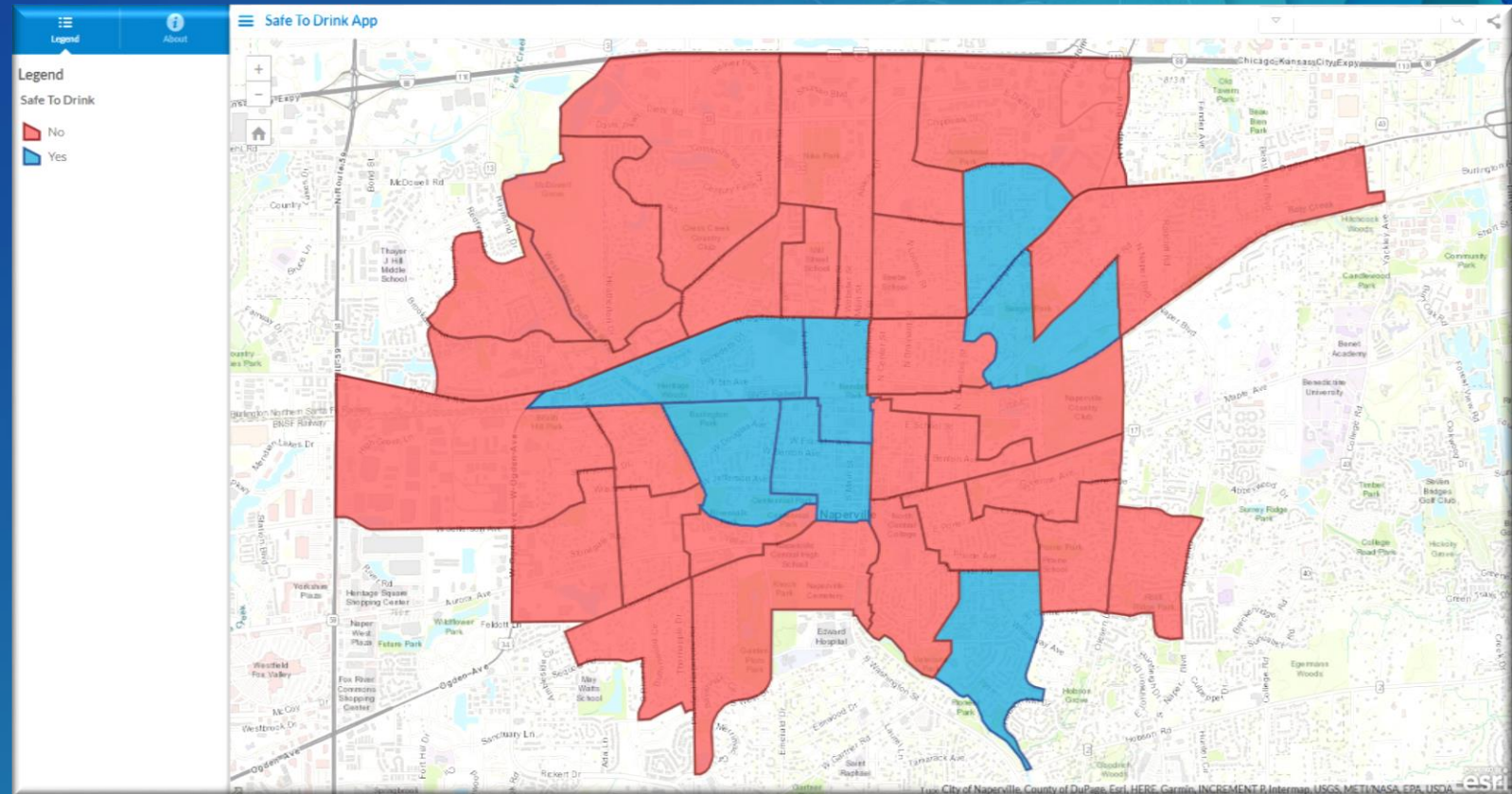
# App breakdown



# 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



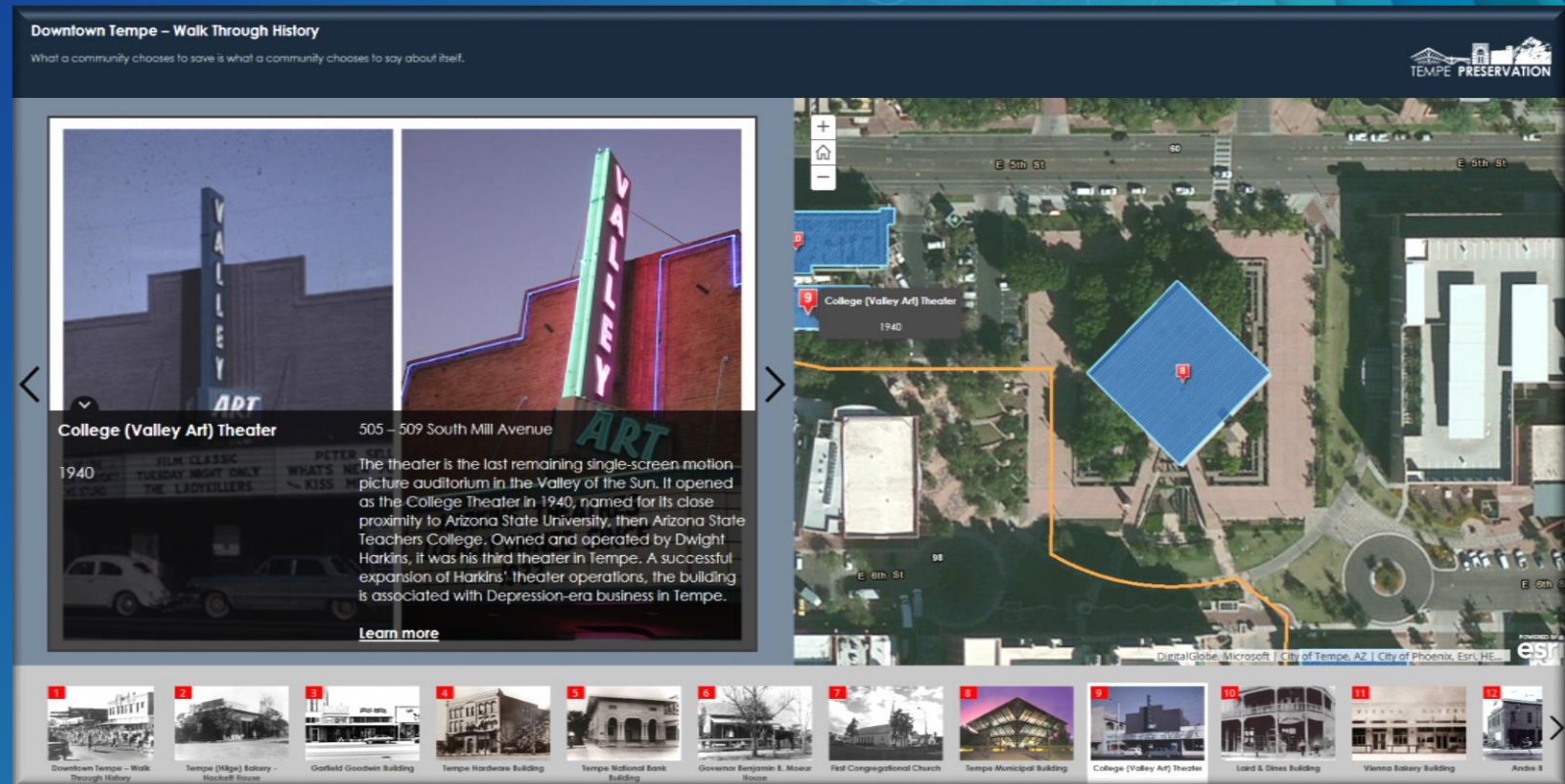
Showcase a map



# Choosing a template

What best suits the story you want to tell?

- What is the story?
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  - Scenes
  - Photos
  - Videos
  - Text

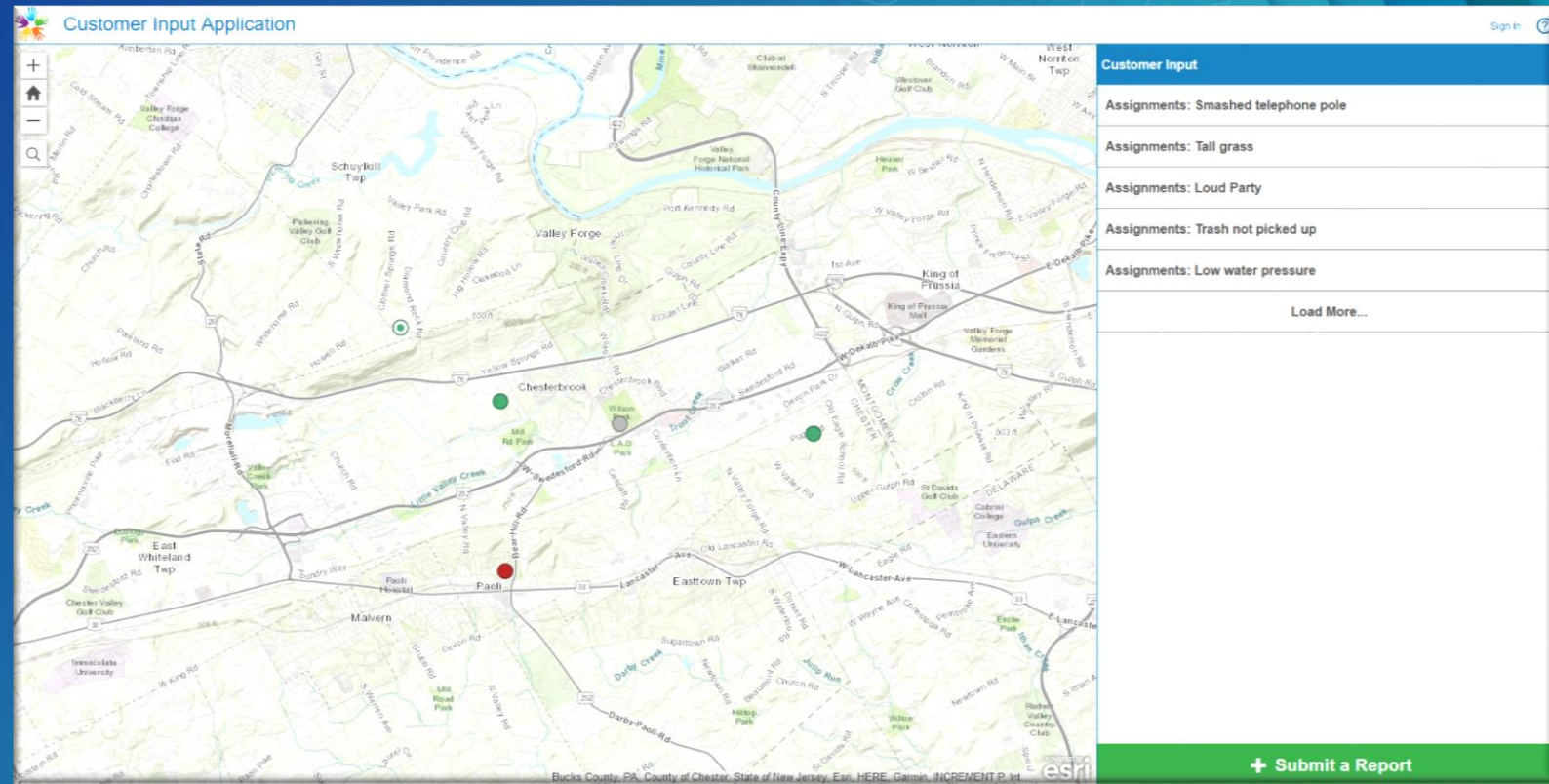


Tell a Story

# 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

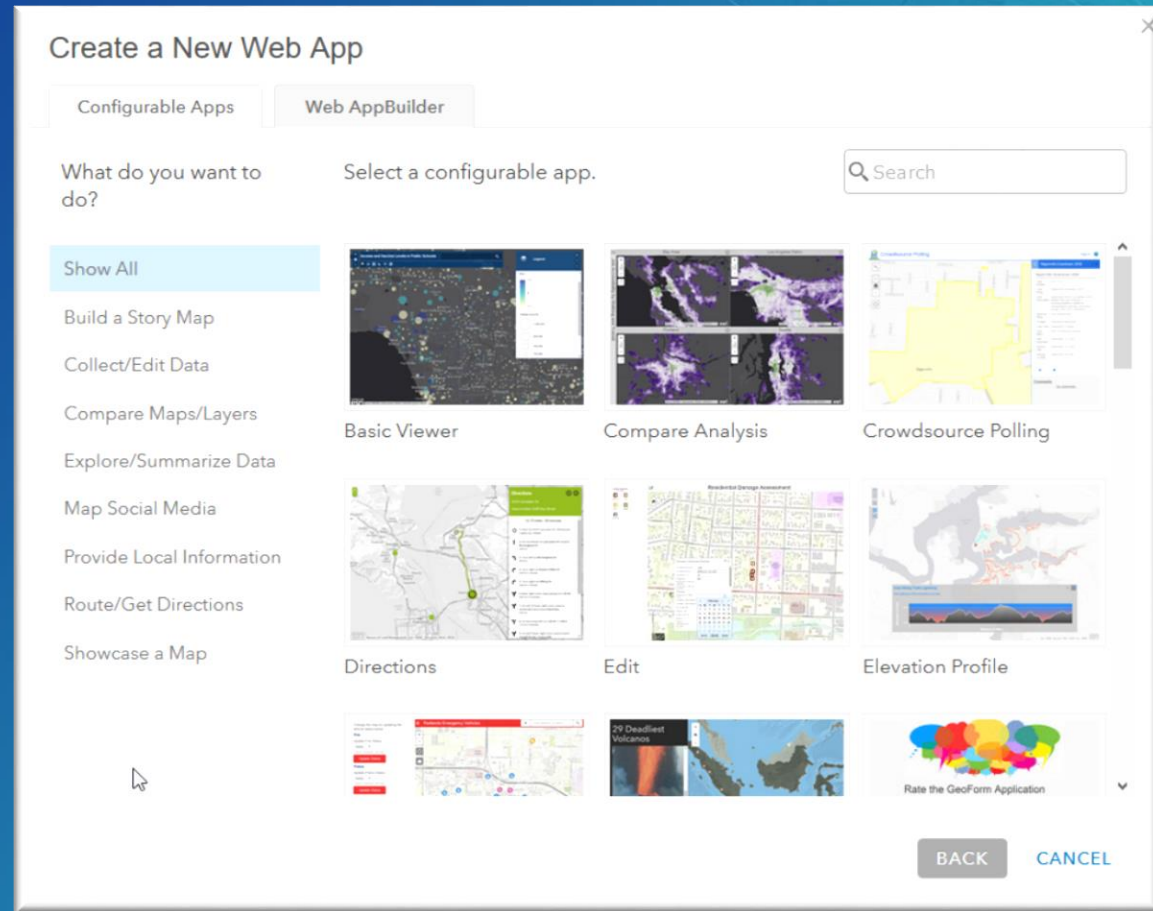


Collect information



# 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													
Crowdsourcing 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 Crowdsourcing	X						X					X								
Story Map Journal			X				X													
Story Map Series	X		X				X													
Story Map Shortlist		X			X															
Story Map Swipe Synglass	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
- Crowdsourcing Polling
- Directions
- Edit
- Filter
- Geo Form
- Impact Summary
- Information Lookup
- Local Perspective
- Map Tools
- Public Information
- Simple Map Viewer
- Story Map Crowdsourcing
- 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



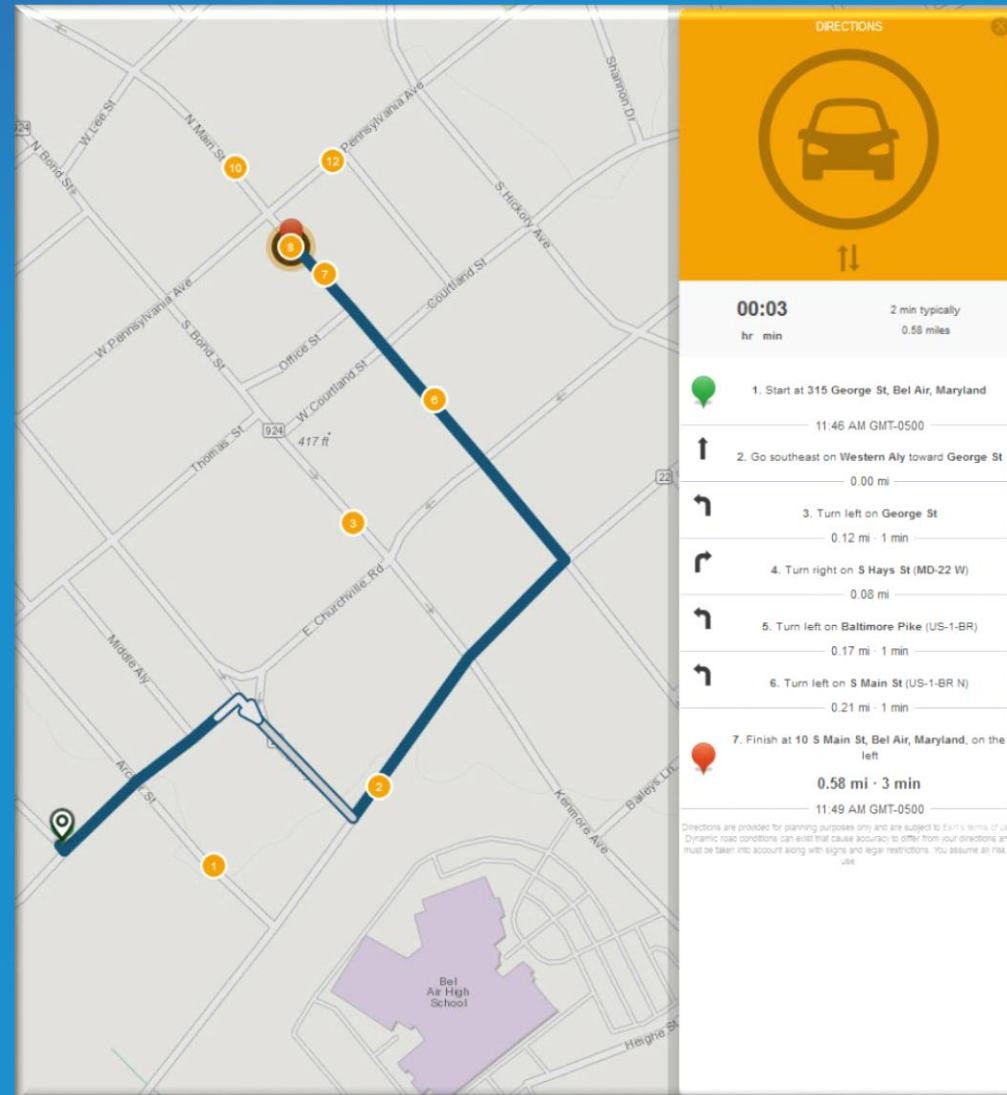


# I need a **route**

Apps that provide routes and directions

- Directions
- Local Perspective

\*subscription required

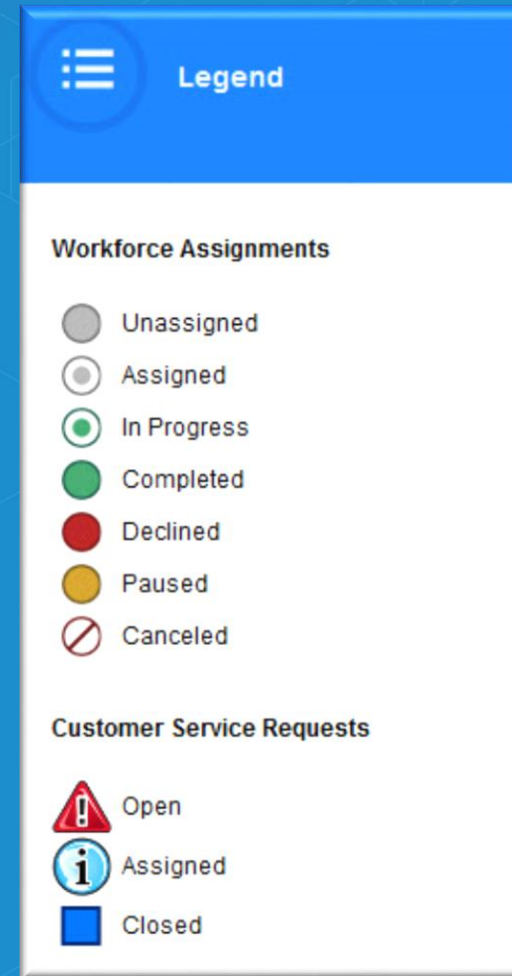


# I need a legend

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

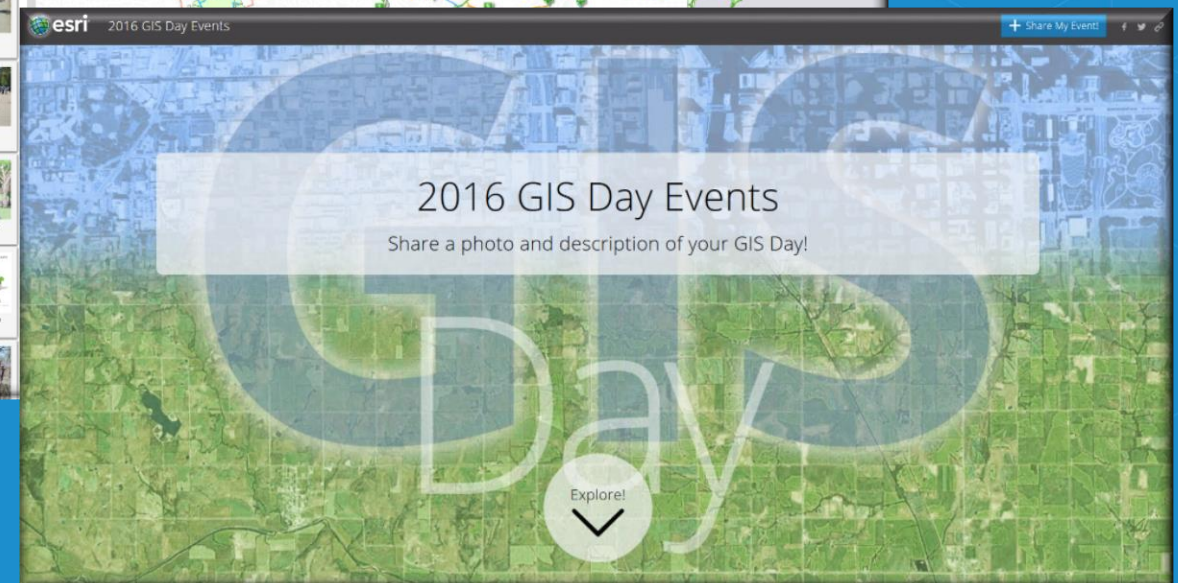
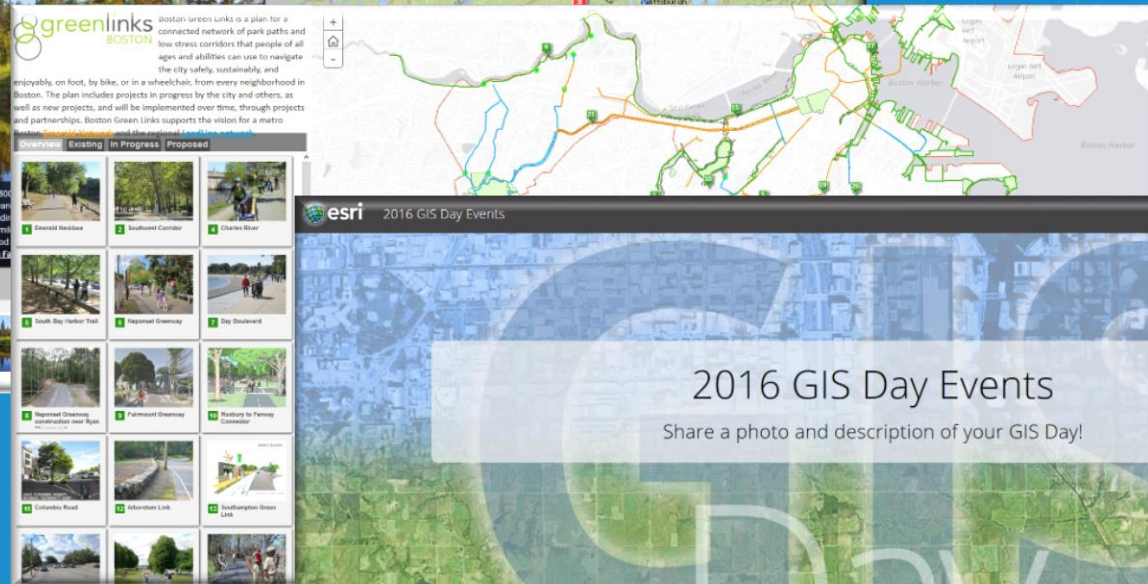
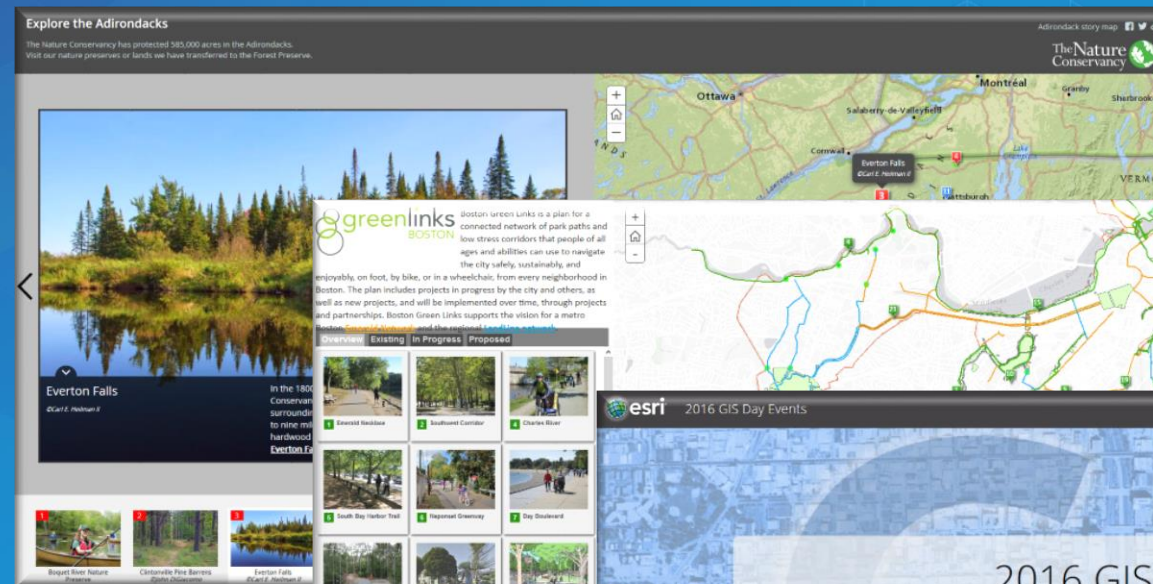


- Story Maps

- Basic
- Cascade
- Crowdsourced
- Map Journal
- Map Series
- Shortlist
- Swipe / Spyglass
- Tour

- Compare Analysis

- Impact Summary

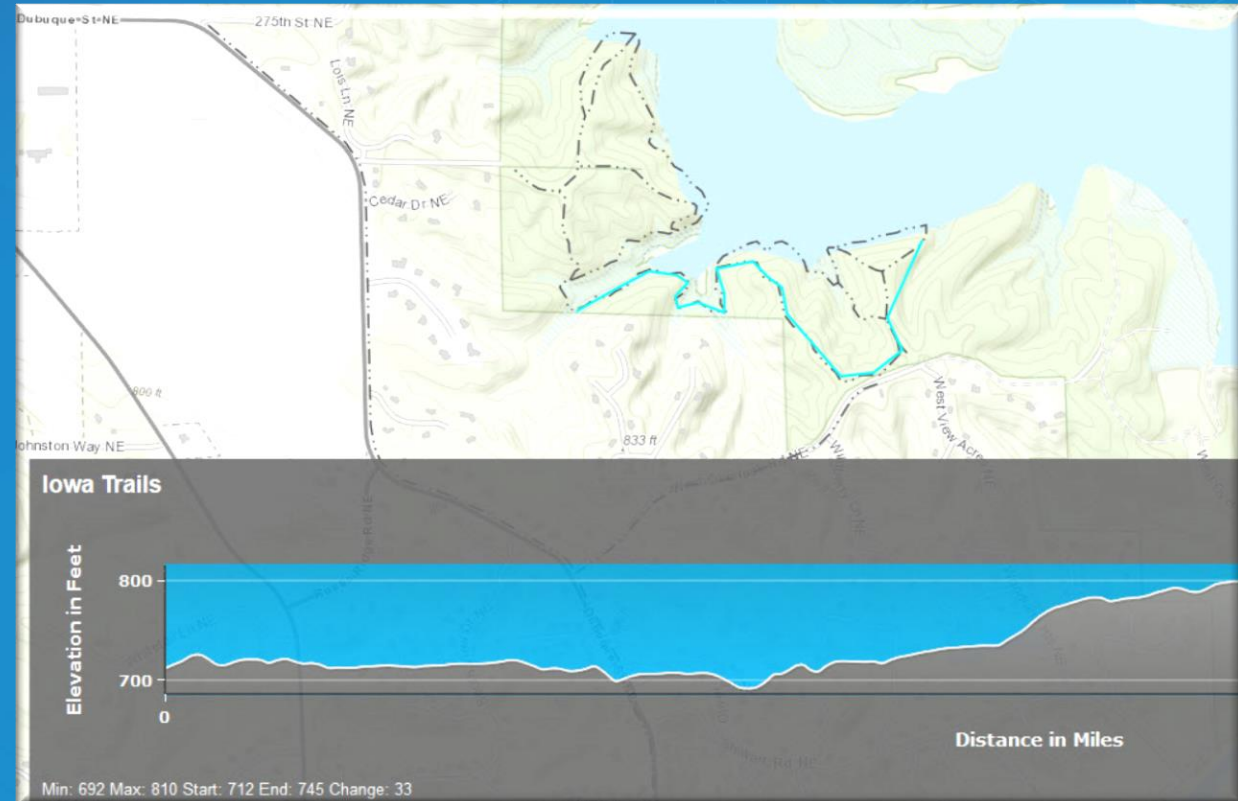


# I need **analysis**

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



CIS_Request	
Input Date	1/30/2017
Address	114 S Ewing St
Name	Stacy Kelley
Account ID	WSRV-4051
Issue	Water Leak
Additional Details	GE Test
Preferred Contact Method	Email
Phone	
Email	matt_ken
Text	
Status	Open

Edit	
Unassigned	Assigned
In Progress	Completed
Declined	Paused

# I need to **print**

Apps that allow printing



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

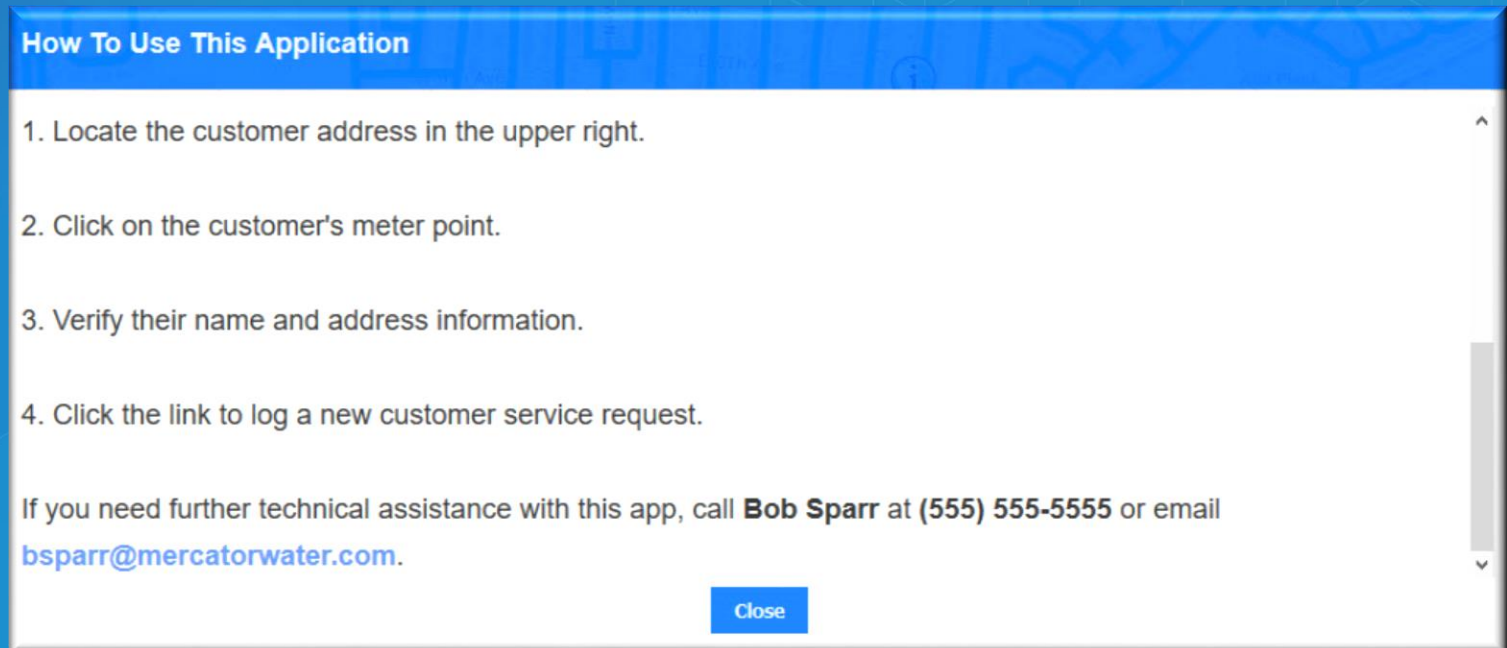


# I need a splash screen

Apps that let you show a disclaimer upon launch



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





Find more templates

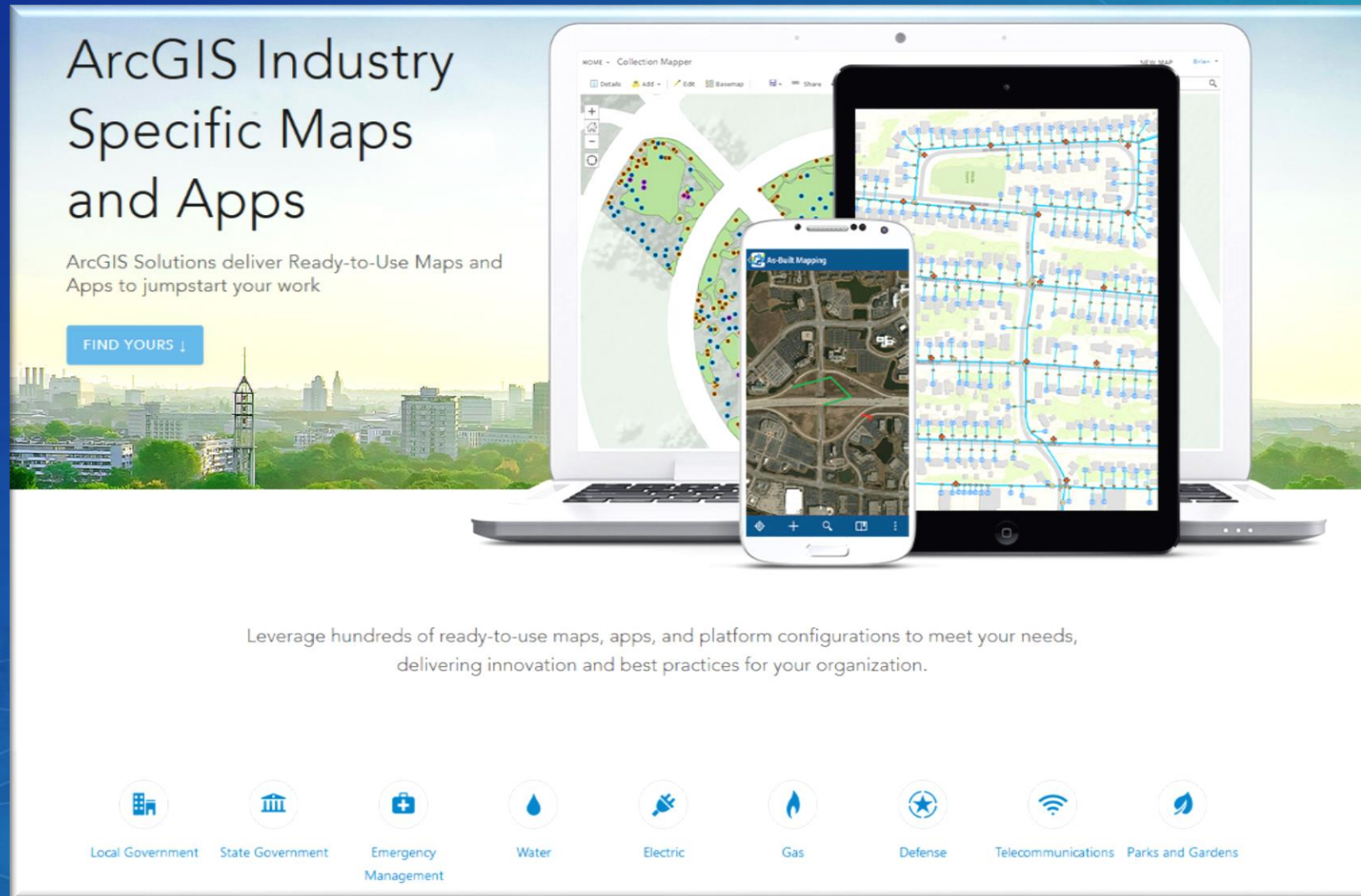
<http://storymaps.arcgis.com>





# Find more templates

<http://solutions.arcgis.com>



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- Gas
- Defense
- Telecommunications
- Parks and Gardens

The banner features a background image of a city skyline at sunset. In the center, a laptop, a tablet, and a smartphone are displayed, each showing a different map or app interface. The laptop screen shows a 'Collection Mapper' interface with a map of a park area. The tablet shows a map with a network of blue lines and red dots. The smartphone shows a 'As-Built Mapping' app with a street map and a green line. Below the devices, there is a row of nine icons representing different industries: Local Government (city building), State Government (capitol building), Emergency Management (ambulance), Water (water drop), Electric (power plug), Gas (flame), Defense (star), Telecommunications (Wi-Fi symbol), and Parks and Gardens (leaf).

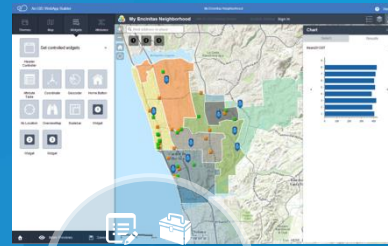
# What if I need functions from 2 or more of these templates?!?

Then you need Web AppBuilder

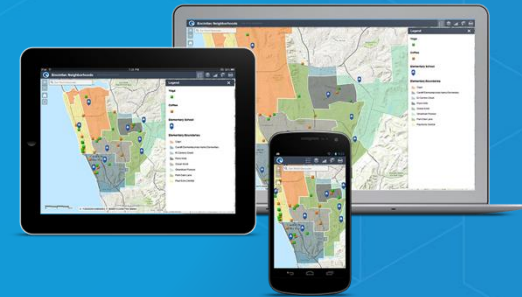
- Similar workflow
- 30 + widgets
- WYSIWYG configuration
- Same hosting options
- Don't over do it!

## Web AppBuilder

### Builder



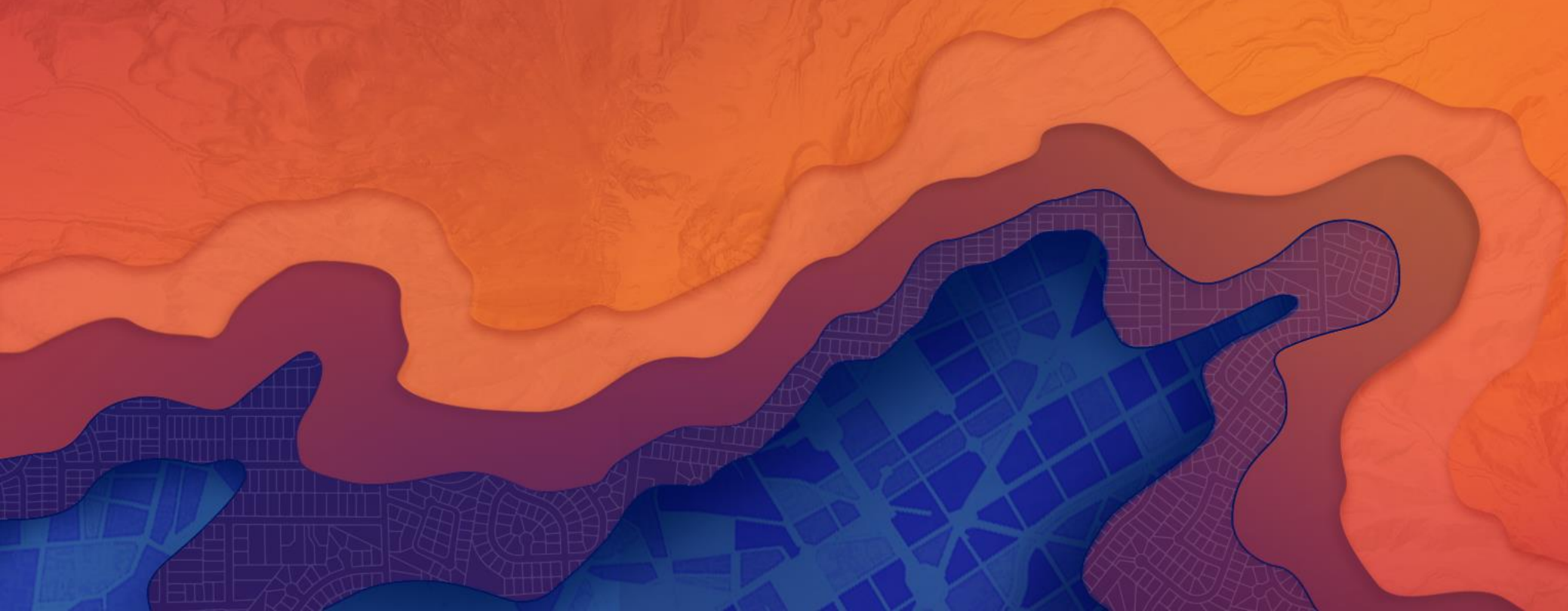
Widgets



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

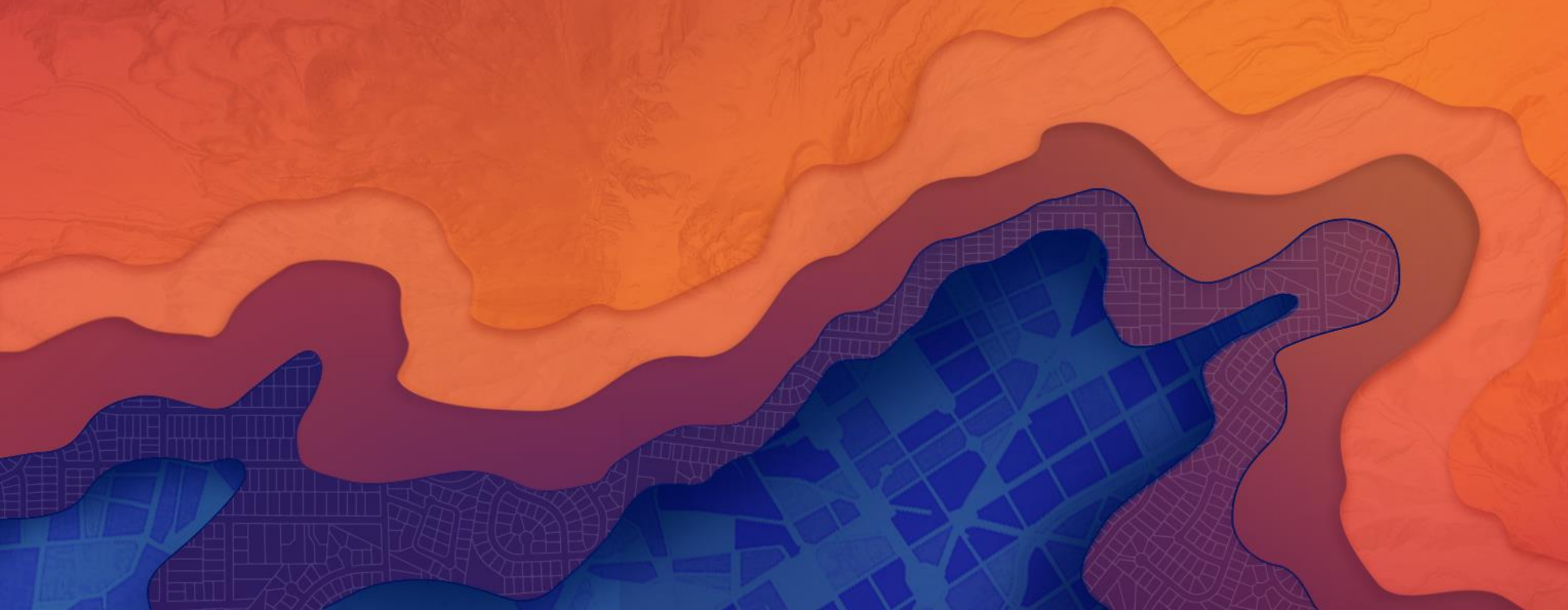


- On premise

- IT legwork required
- Web server required
- Must update apps manually



# Sharing & administration



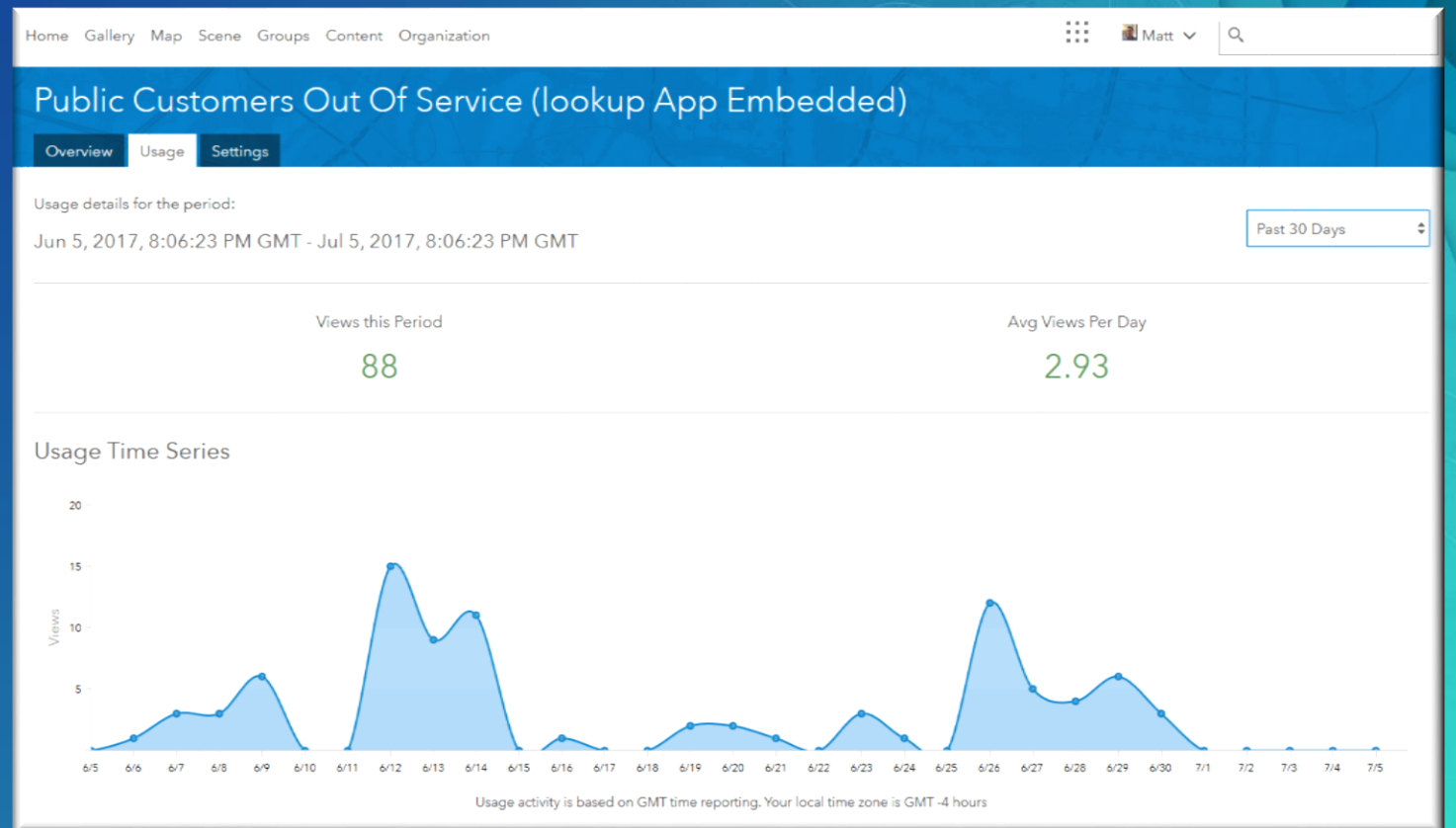
# Sharing apps – what you have accomplished

- 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

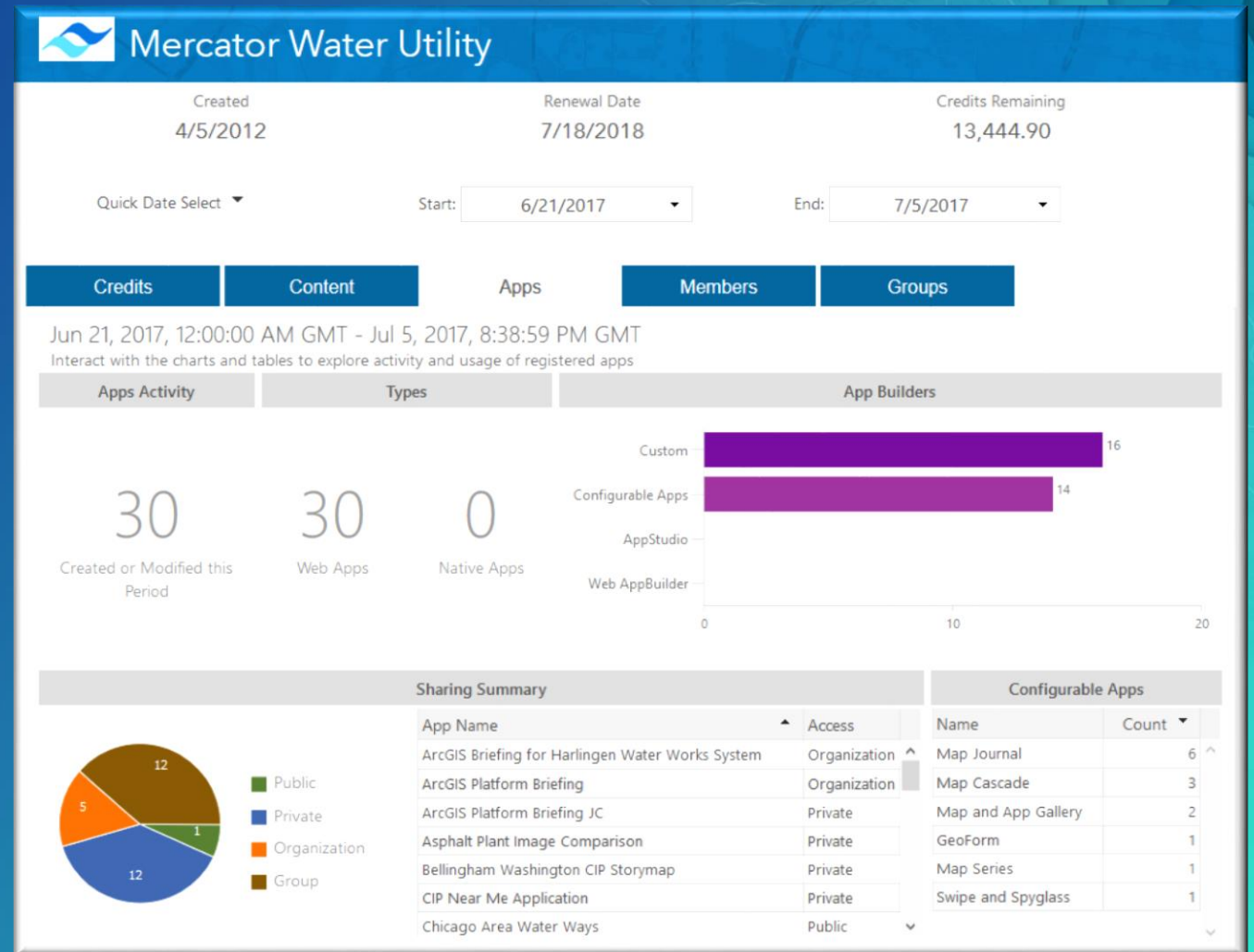


# Administering apps

- Monitor app usage
  - Is anyone using this app???
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- **View Stats**

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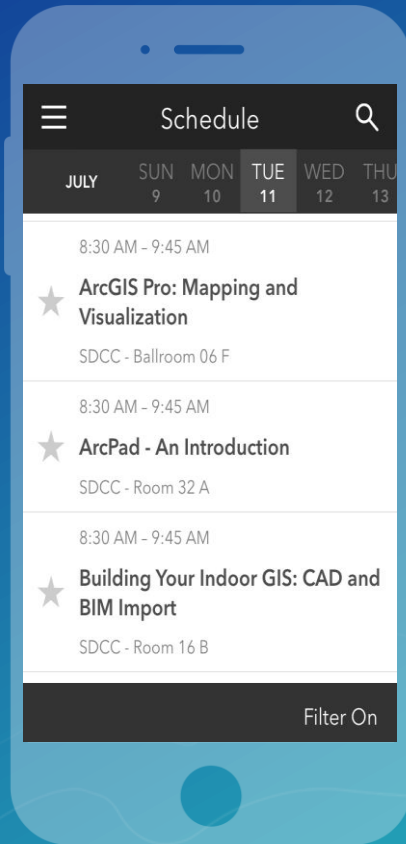


# Please Take Our Survey on the Esri Events App!

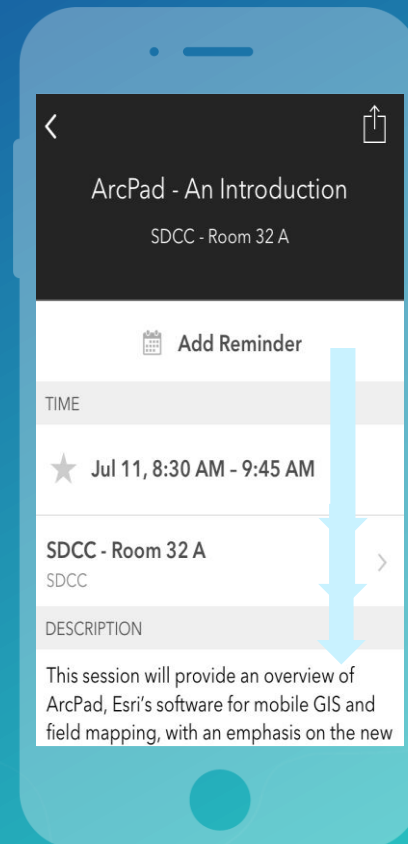
Download the Esri Events app and find your event



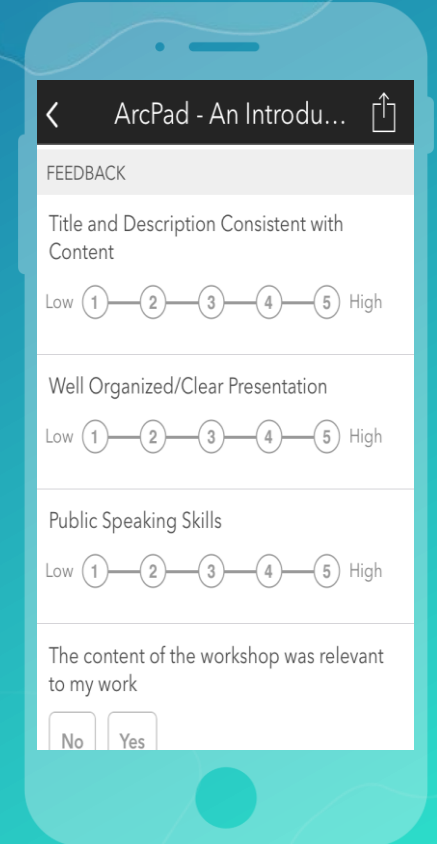
Select the session you attended



Scroll down to find the survey



Complete Answers and Select "Submit"







esri

THE  
SCIENCE  
OF  
WHERE