

Getting the most out of ArcGIS Web Application Templates

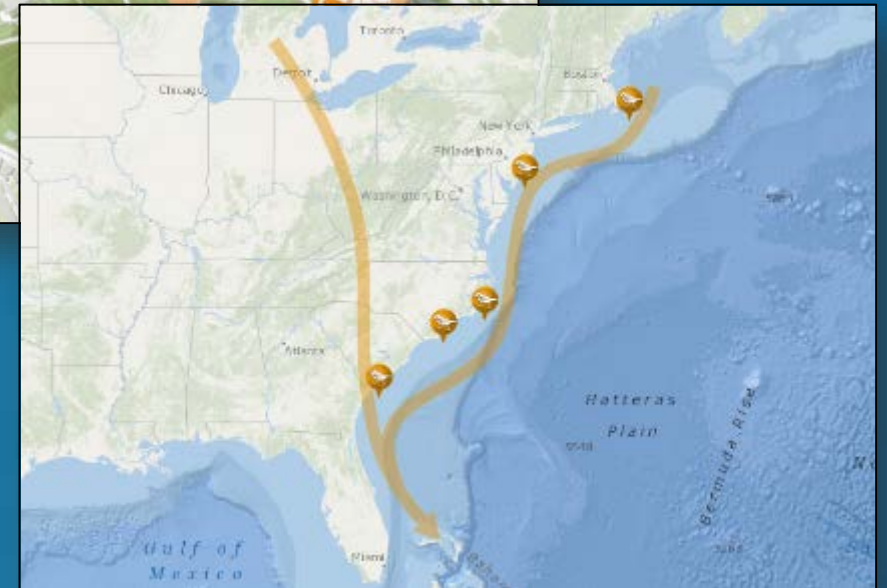
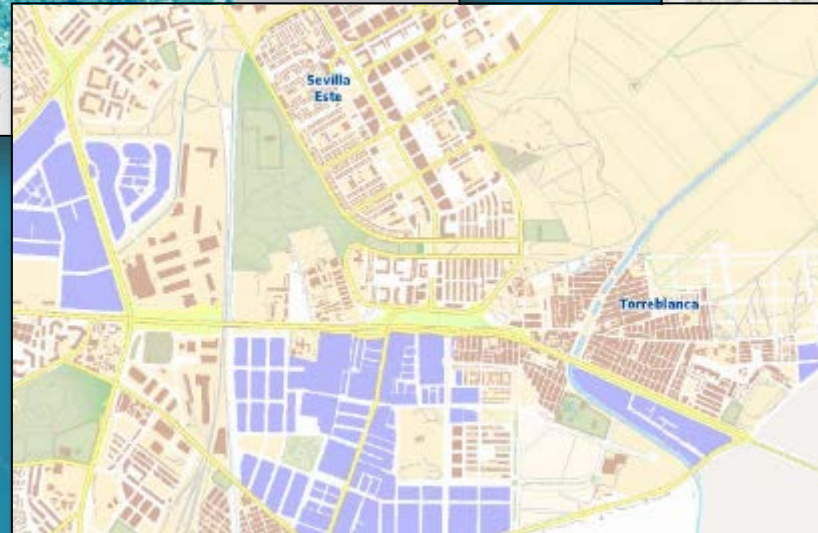
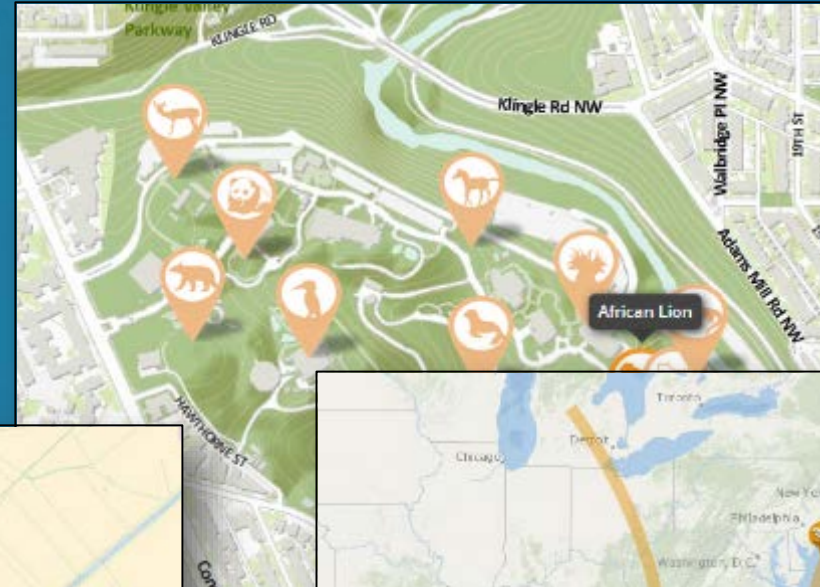
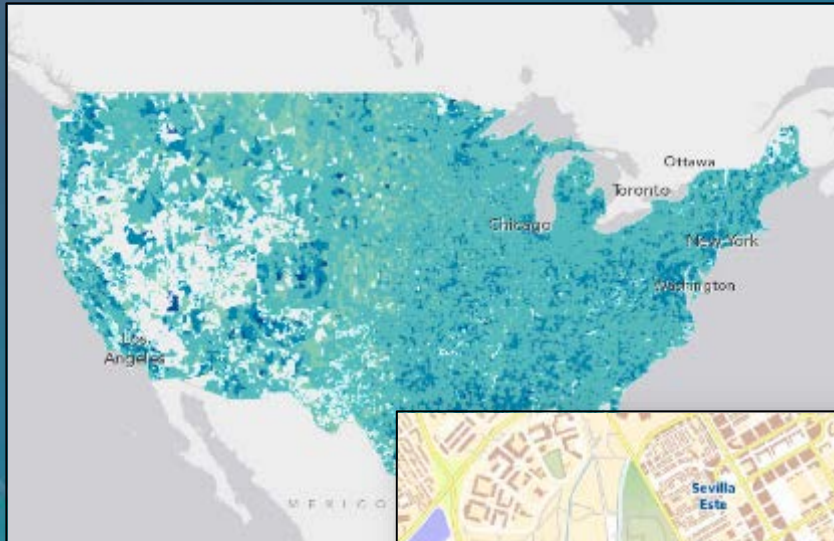
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Ian Wittenmyer
@ianwittenmyer
iwittenmyer@esri.com

Introducing Web Apps

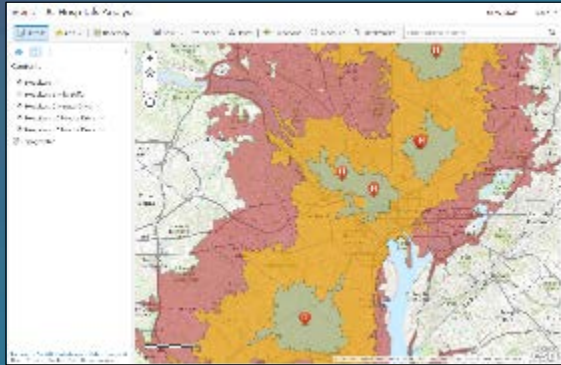
ArcGIS Web Map

The building block of the WebGIS ecosystem

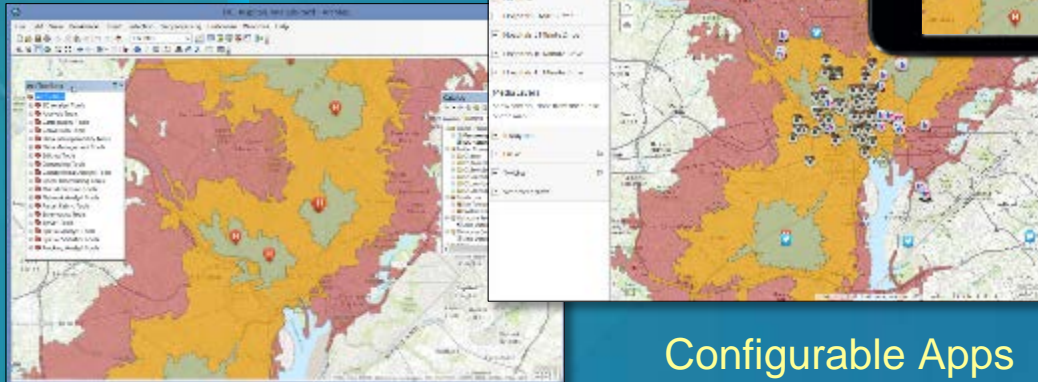


ArcGIS Web Map

Author and use anytime, anywhere, on any device



Map Viewer
(for authoring)



ArcGIS for Desktop

ArcGIS Apps



Configurable Apps



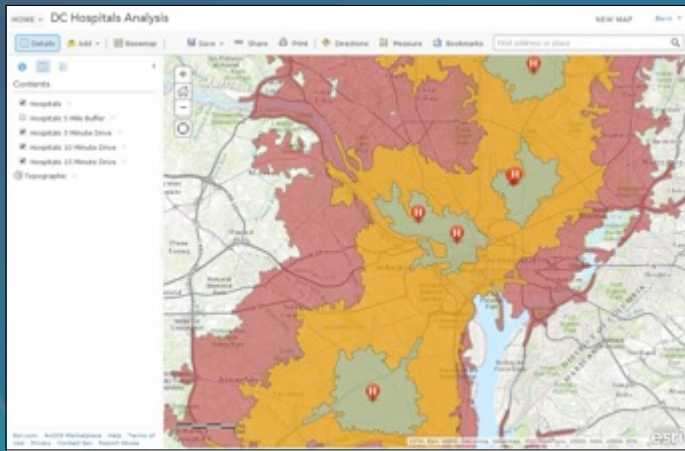
Story Maps



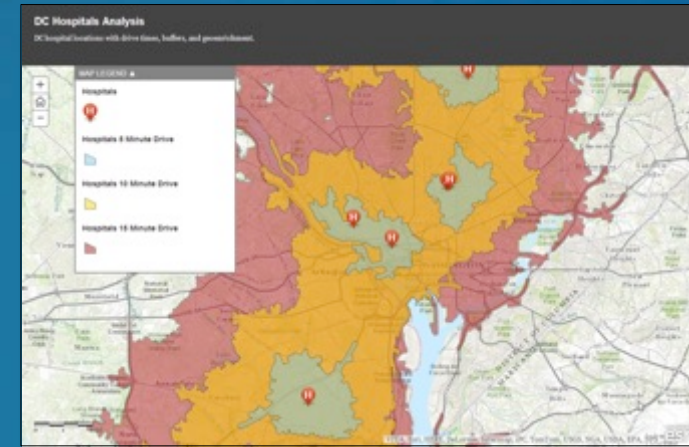
Devices

Map viewer vs. apps

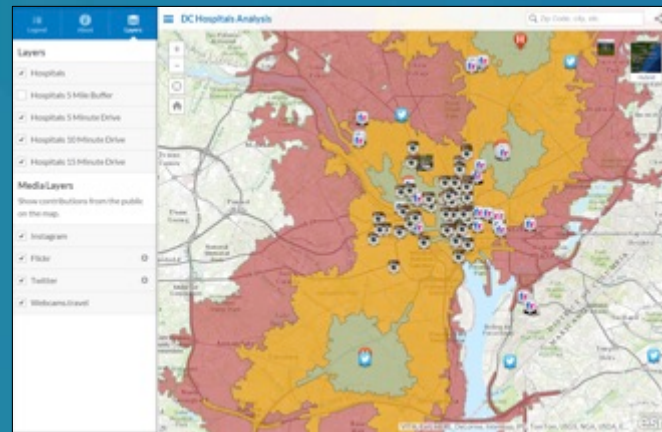
Deliver your map in the right context for the intended audience



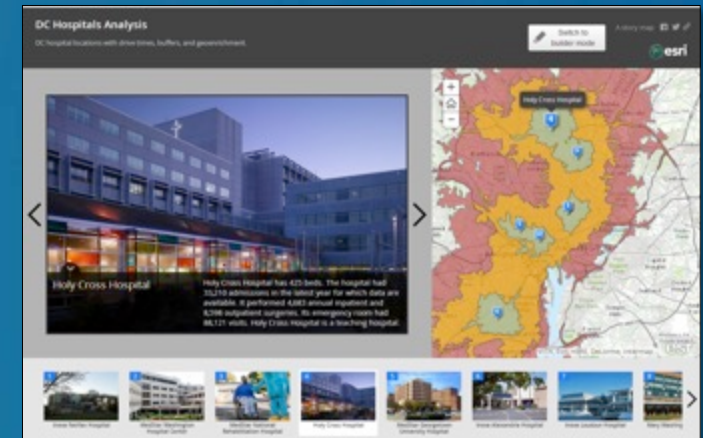
Map viewer (for authoring)



Storytelling Basic



Public Information (PIM)

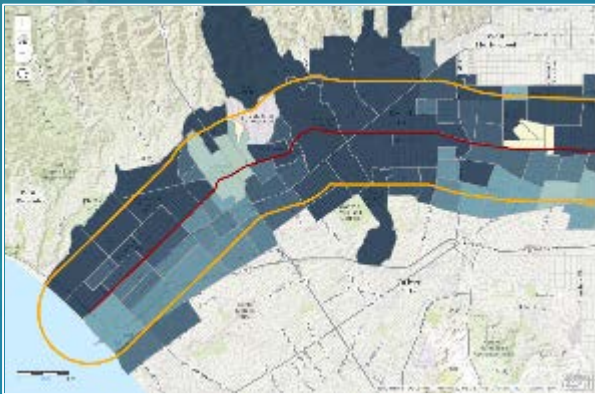


Story Map Tour

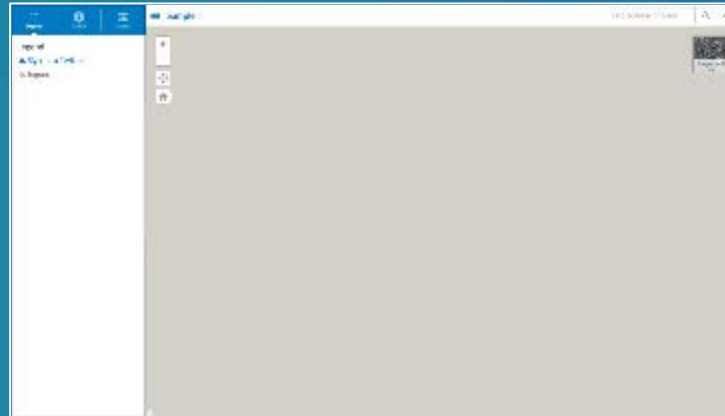
Web apps complete the user experience

- Public viewing
- Internal communication
- Decision makers
- Common workflows
- Deliver tools and/or data for tasks

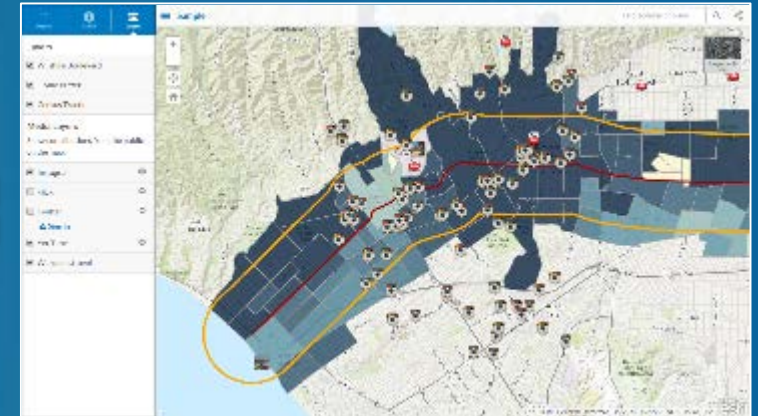
Map



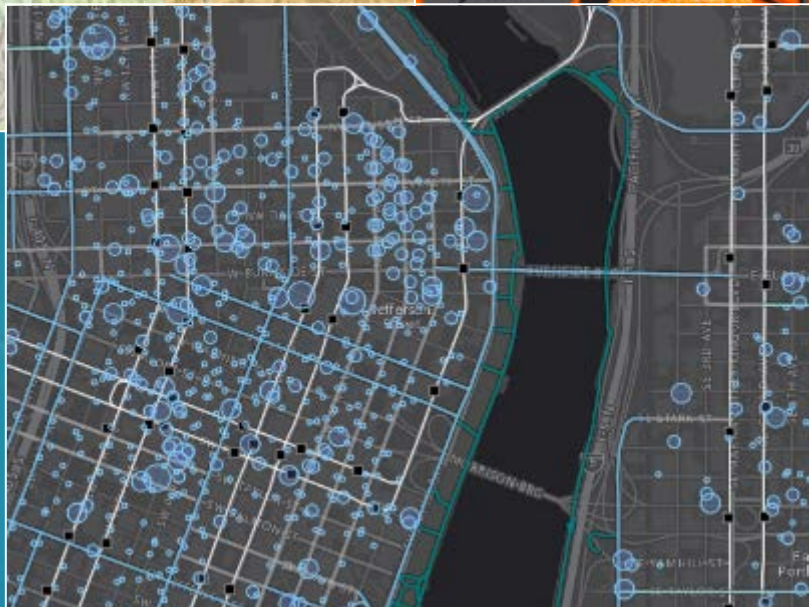
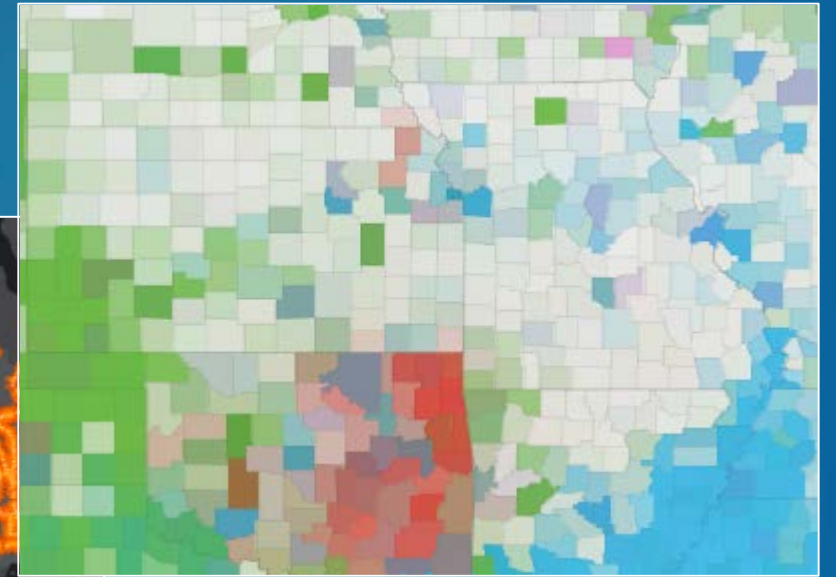
App Template



Configured Application



A great app starts with a great map



Crafting the map experience

(1 of 7) Lawrence County
Lawrence County extends across 58 sq. miles in Arkansas.
3,535 (64%) people voted Republican and 1,786 (32%) voted Democrat out of a total turnout of 5,537 voters.
Legend
Republican vote % Democrat vote %
95.1 - 100 90.1 - 95.0
85.1 - 90.0 85.1 - 90.0
80.1 - 85.0 80.1 - 85.0
75.1 - 80.0 75.1 - 80.0
70.1 - 75.0 70.1 - 75.0
65.1 - 70.0 65.1 - 70.0
60.1 - 65.0 60.1 - 65.0
55.1 - 60.0 55.1 - 60.0
50.0 - 55.0 50.0 - 55.0
Zoom to

(2 of 4) MD census tract 240338005.09
Wealthy Seaboard Suburbs (segment 5) is the predominant Tapestry segment in 240338005.09. See full description.
Tapestry Segments in this area
Tap chart for details.
Zoom to Get Directions

Pop-ups

Visible Range
World Streets
Map scale is 1:36,978,595

Display Scale Range

Opaque Transparent
0% 50% 100%

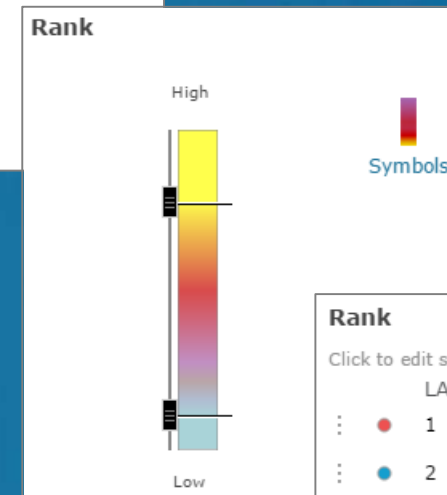
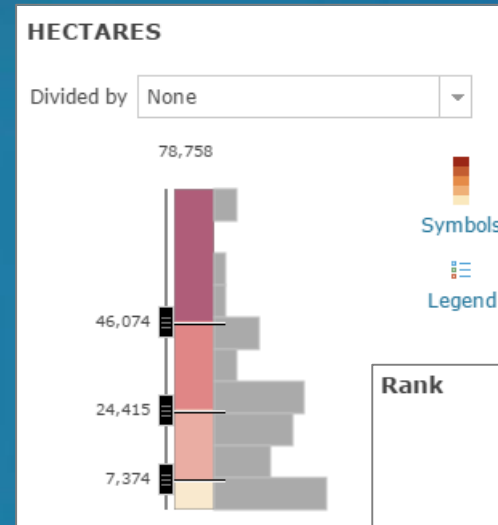
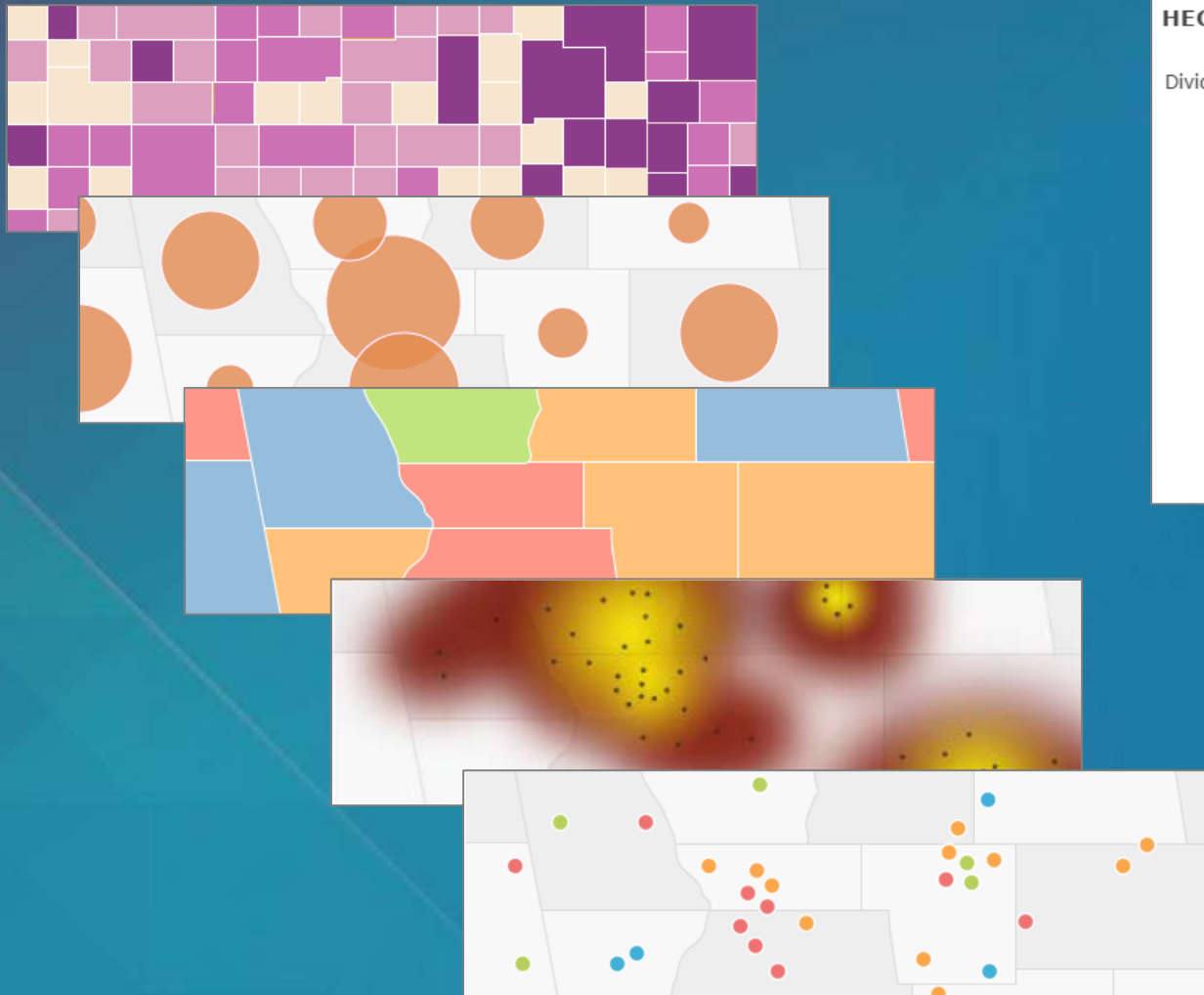
Transparency

Styles

✓ Options depend on layer type

Styling layers

Smart, data-driven layer styling



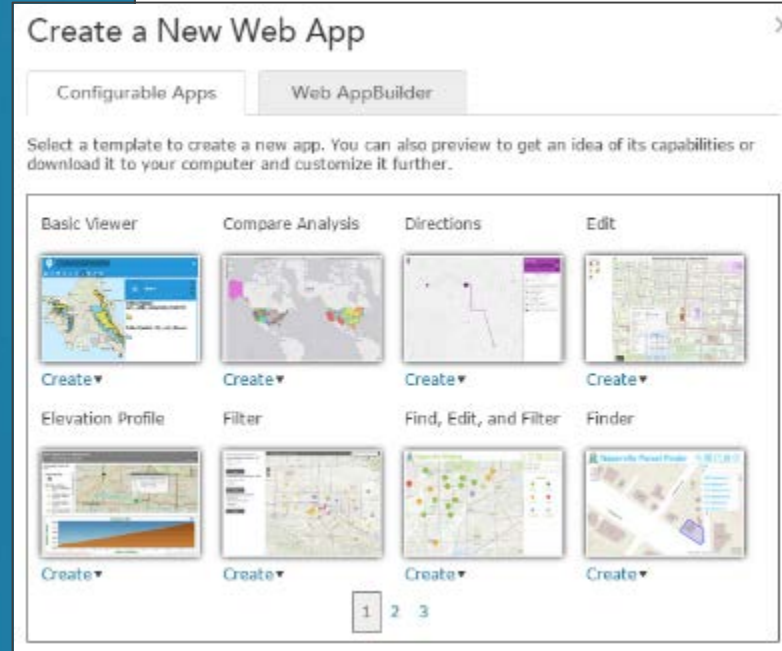
Rank

Click to edit symbol or label.

	LABEL	COUNT	
⋮	1	1	●
⋮	2	1	●
⋮	3	1	●
⋮	4	1	●
⋮	5	1	●

Where to find app templates

- ★ Create a New Web App gallery
- ★ Story Maps
 - storymaps.arcgis.com
- Solution templates
 - solutions.arcgis.com
- ArcGIS Online items and groups



Delete Protection

- Delete protection for any item
- Prevents accidental deletion when housecleaning
- Helps prevent broken apps

Properties

Tags

Credits

Delete Protection Prevent this item from being accidentally deleted.

Save As Allow others to save a copy of this item.

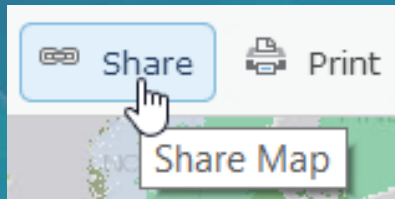
Offline Mode Enable offline mode.

Extent Left: -106.71 Right: -106.63
Top: 35.15 Bottom: 35.11

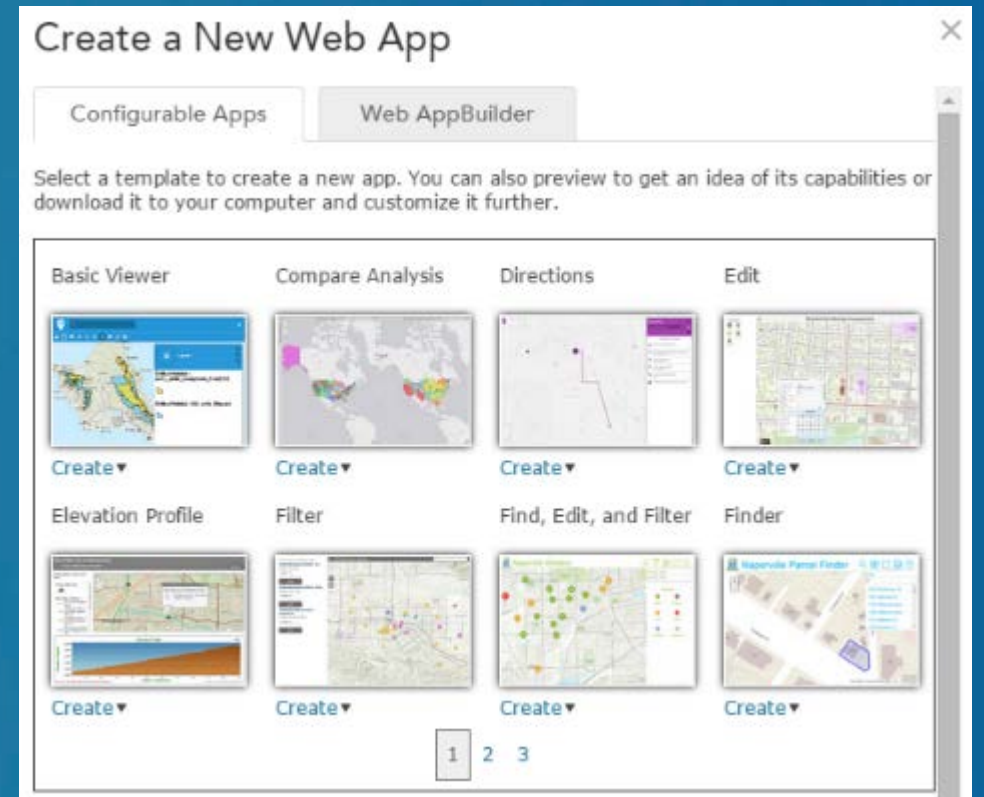
Start with a map and... Create a Web App

Make a Web Application Gallery

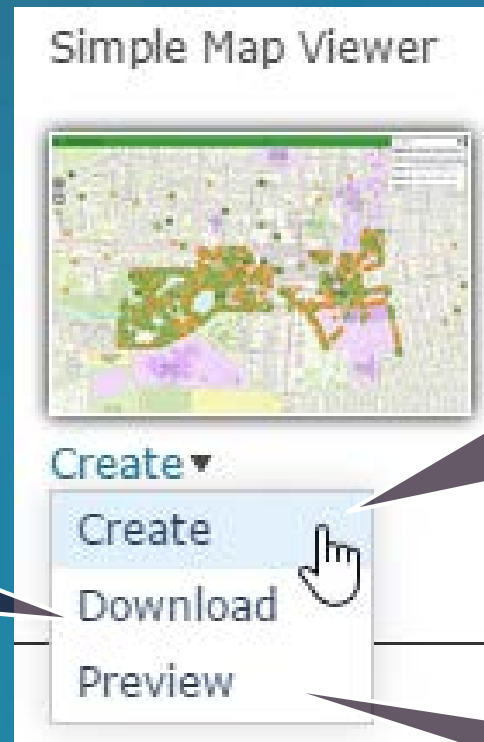
Choose from gallery to preview, publish, or download



CREATE A WEB APP



Publish, Download, Preview



Download source to customize and host on your own

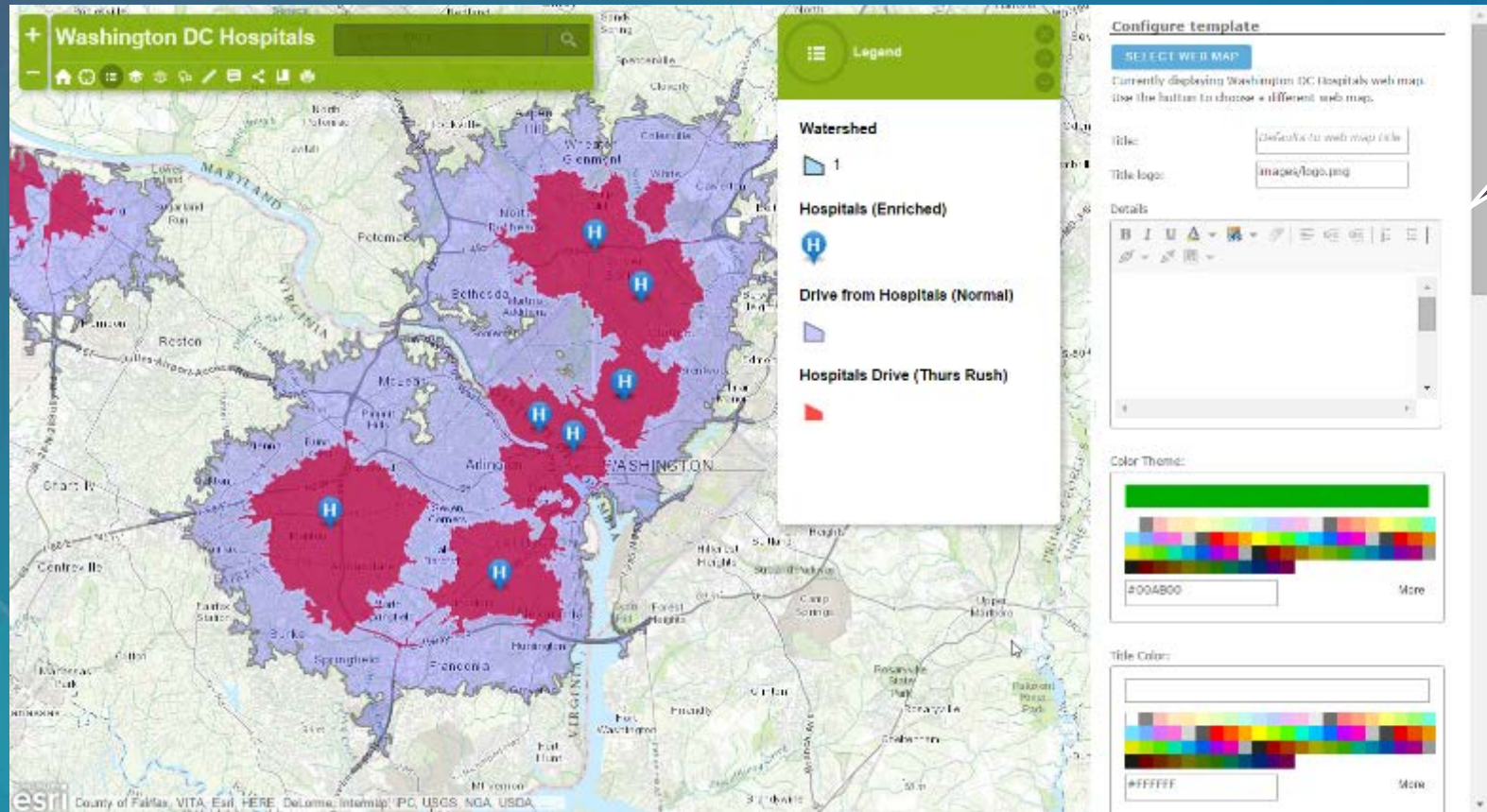
Click **create** to couple and host your map with the application template

Preview application

✓ *Preview is great for a "quick share"*

Configure and publish from your account

Configuration Settings



✓ Configuration options will vary from app to app

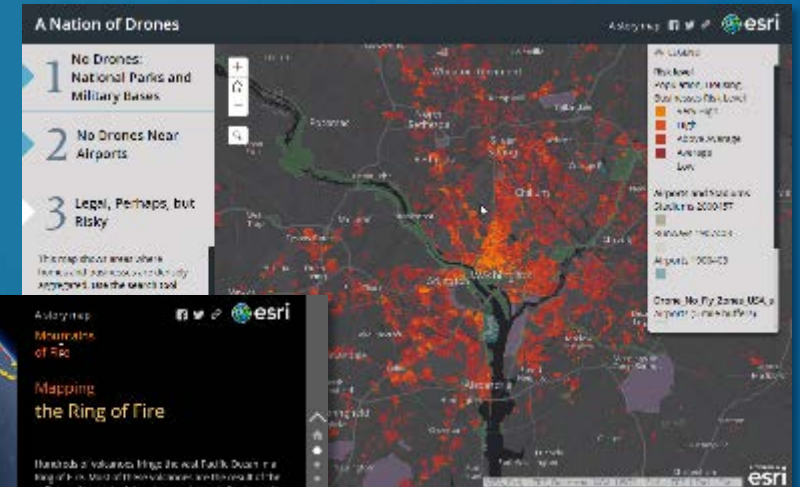
DEMONSTRATION

Story Maps

Story Maps

Make it easy to harness the power of maps to tell stories

- Combine interactive maps and multimedia
- Story-focused user experience
- Configure via builder
- Responsive design



What do you need?



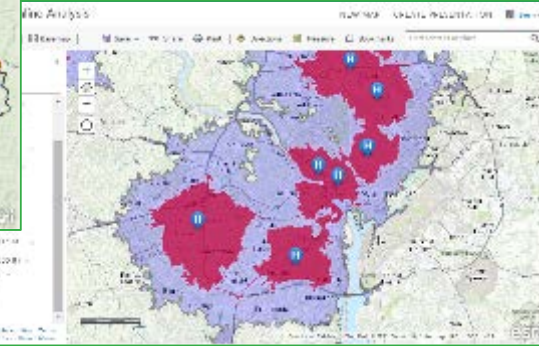
An idea and thinking...



Media & Storage



Web Map(s)



Story Map App Template

storymaps.arcgis.com

Everything you need



Story Maps

Everyone has a story to tell
Harness the power of maps to tell yours

Engage and Inspire Your Audience

Story Map application templates

Found at [Story Map Apps](#)

- Map Tour
- Map Journal
- Map Series
- Swipe & Spyglass
- Shortlist
- Basic
- Playlist
- Countdown



Source



Hosted



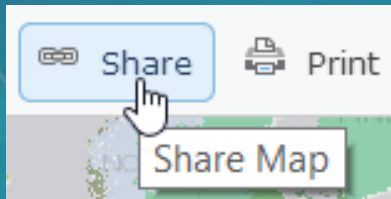
Builder



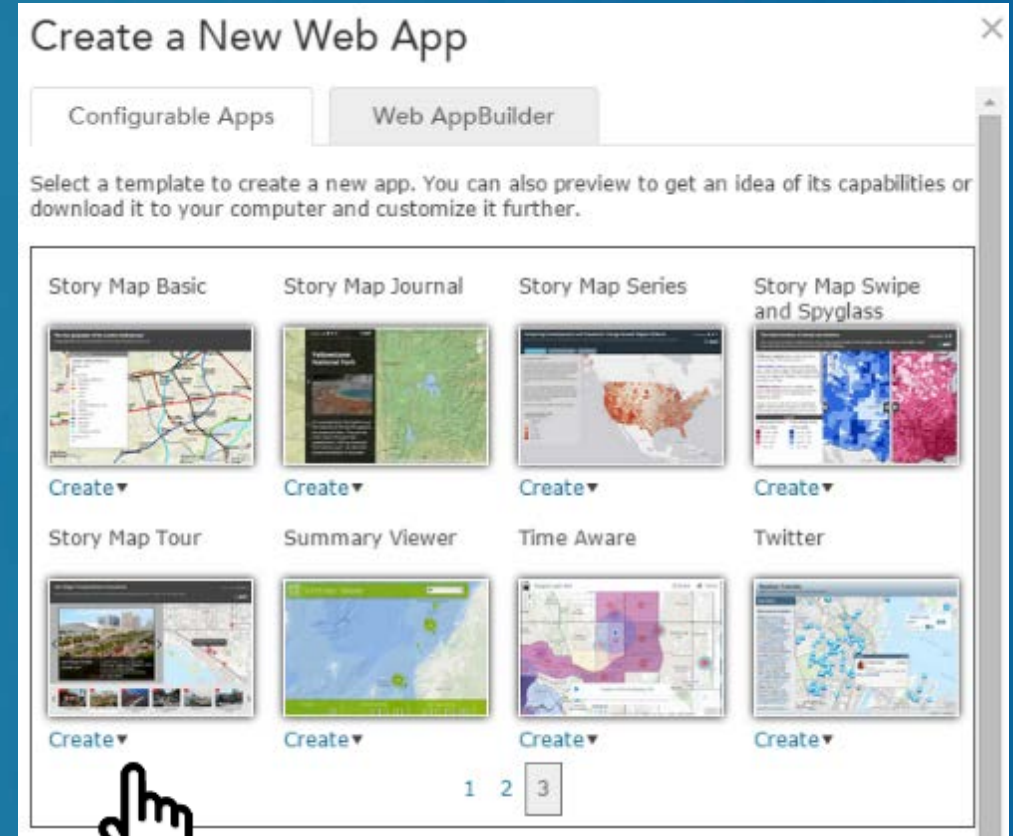
Responsive

Two Workflows

1. Start with a web map
2. Start at the Story Maps website



CREATE A WEB APP



Two Workflows

1. Start with a web map
2. Start at the Story Maps website



Story Map TourSM

This app presents a sequential, place-based narrative in the form of a series of geotagged photos and captions linked to an interactive map. It's ideal for walking tours or for a series of locations you'd like users to follow in sequence.

Features:    

[LEARN MORE](#)

[BUILD A MAP TOUR](#)



Recommended workflow

1. Visit gallery to get ideas and choose a story map template
2. Assemble and warehouse needed components*
3. Go to the Story Maps Apps page



Story Map TourSM

This app presents a sequential, place-based narrative in the form of a series of geotagged photos and captions linked to an interactive map. It's ideal for walking tours or for a series of locations you'd like users to follow in sequence.

Features:    

[LEARN MORE](#)

[BUILD A MAP TOUR](#)



Popular Story Maps

Map Tour des plus belles chutes d'eau du monde

73 cascades et chutes d'eau spectaculaires sont classées dans ce tour interactif. Découvrez les plus belles cascades du monde et découvrez les plus belles cascades du monde.

Map Tour

KyFromAbove - Elevation

1 2 3 4 5 6 7 8 9

Highest Point in Kentucky

Black Mountain, located in Carter County near the Kentucky/Virginia state line, is the highest point in the Commonwealth. It is 4,139 feet (1,262 meters) high and is located about six hours drive from any major city in Kentucky and 140 ft above mean sea level. This value was determined using 2004 data from the 2001 topographic survey.

Black Mountain is one of the few peaks in Kentucky supporting a Northern White Pine forest. Many local and national bird and tree lists, including Blackberry, Red Idemity and Hobbler's.

Learn more about the history of this peak at the Kentucky State Parks website and the Kentucky Division of Water.

Map Journal

Modan of Tectonic Plates

Seafloor Age

Oceanic ridges such as the mid-Atlantic ridge and the east Pacific Rise play an important role in plate tectonics. Convection currents deep within the Earth's mantle cause hot lava forming new oceanic crust that spreads out laterally. This 'seafloor spreading' generates linear magnetic magnetic anomalies at the ridges, noticeable as the symmetric pattern of stripes alternating the Mid-Atlantic Ridge in the map at the right. These magnetic stripes not only record the history of earth's magnetic pole reversals, but also infer seafloor age.

Seafloor Age (Millions of Years)	Color
0 - 20	Red
21 - 40	Orange
41 - 60	Yellow-Orange
61 - 80	Yellow
81 - 100	Light Green
101 - 120	Green
121 - 140	Light Blue
141 - 160	Blue
161 - 180	Dark Blue
181 - 200	Very Dark Blue
201 - 220	Black
221 - 240	Dark Grey
241 - 260	Light Grey
261 - 280	White

Map Series

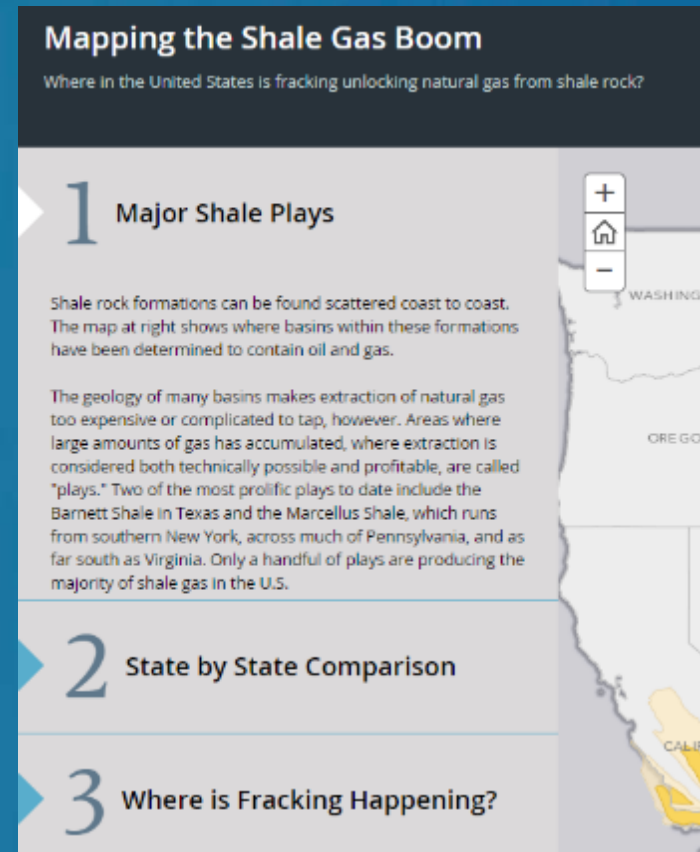
Story Map Layout Options – Example Story Map Series



Bullethead



Tabbed



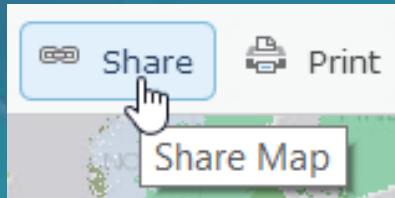
Side Accordion

DEMONSTRATION

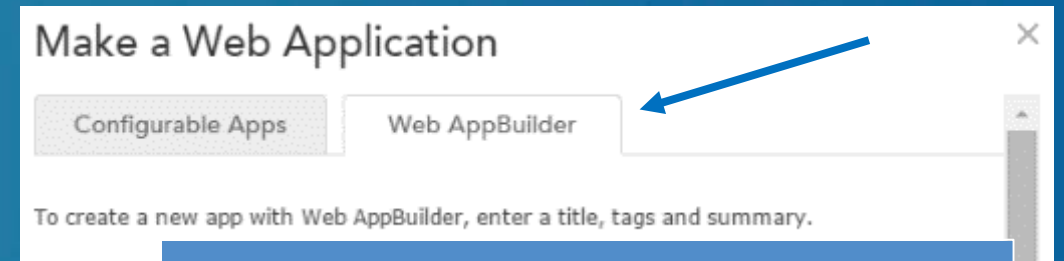
Web AppBuilder for ArcGIS

Web AppBuilder

- Create a custom configured responsive application using widgets



CREATE A WEB APP

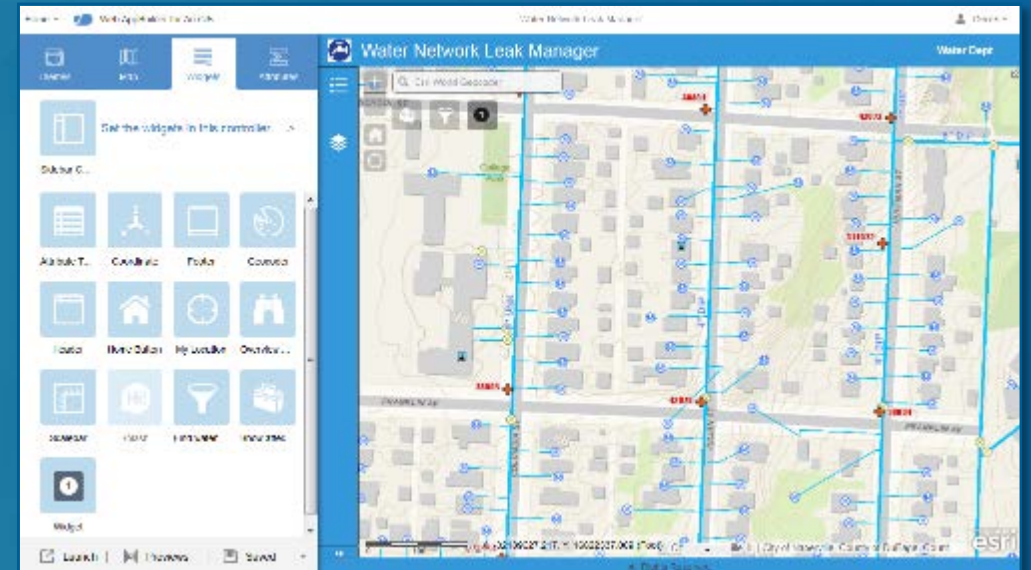


Web AppBuilder for ArcGIS



Web AppBuilder Features

- Fully integrated into ArcGIS Platform
- No coding required
- Deploy to browsers, mobile devices
- Extensible
- Easiest way to make web app templates



DEMONSTRATION

Custom App Galleries for your Organization

Configuring your organization

Groups are building blocks

The screenshot shows the configuration interface for an organization. On the left, a sidebar contains several tabs: General, Home Page, Gallery, Map (selected), Item Details, Groups, Utility Services, Roles, Security, and Open Data. The main content area is titled 'Map' and contains two sections: 'Web App Templates' and 'Units'. The 'Web App Templates' section has a description: 'Web application templates contain sample layout mapping applications with little or no development. Select the web app templates you want to use.' Below this is a dropdown menu currently set to 'Esri Default'. A mouse cursor is pointing at 'Online Labs Custom Templates' in the dropdown list. Other options in the list include 'Esri Default', 'ArcGIS Online Workshop', 'Cool Content Group', 'Online Labs Featured Maps & Apps', 'Online Labs Gallery Group', and 'Online Labs Open Data'. The 'Units' section is partially visible below, showing a map icon and the text 'calebar, measu', 's, feet, and inc', 'rs. Members ca'.

Custom Template Group

Online Labs Custom Templates
Custom app templates for use in the Labs organization.
owned by bwszukalski on July 17, 2014

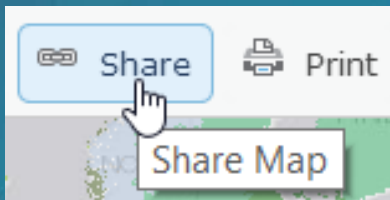
Replace Esri Default in Map tab

DEMONSTRATION

Embedding Maps

Embed a Web Map

Embed maps or presentations using a choice of options



EMBED IN WEBSITE

Embed in Website

What would you like to embed?

Map

Choose the size of your map.

Small 300x260 Medium 500x400 Large 940x600 Custom W X H

Copy and paste HTML to embed in website


```
<iframe width="500" height="400" frameborder="0" scrolling="no" marginheight="0" >
```

Map Options Add Symbol

Choose options to display on your map.

<input checked="" type="checkbox"/> Zoom Control	<input checked="" type="checkbox"/> Scale Bar
<input type="checkbox"/> Home Button	<input type="checkbox"/> Location Search
<input type="checkbox"/> Basemap Selector	<input type="checkbox"/> Map Details
<input type="checkbox"/> View larger map	<input type="checkbox"/> Legend

Map Preview

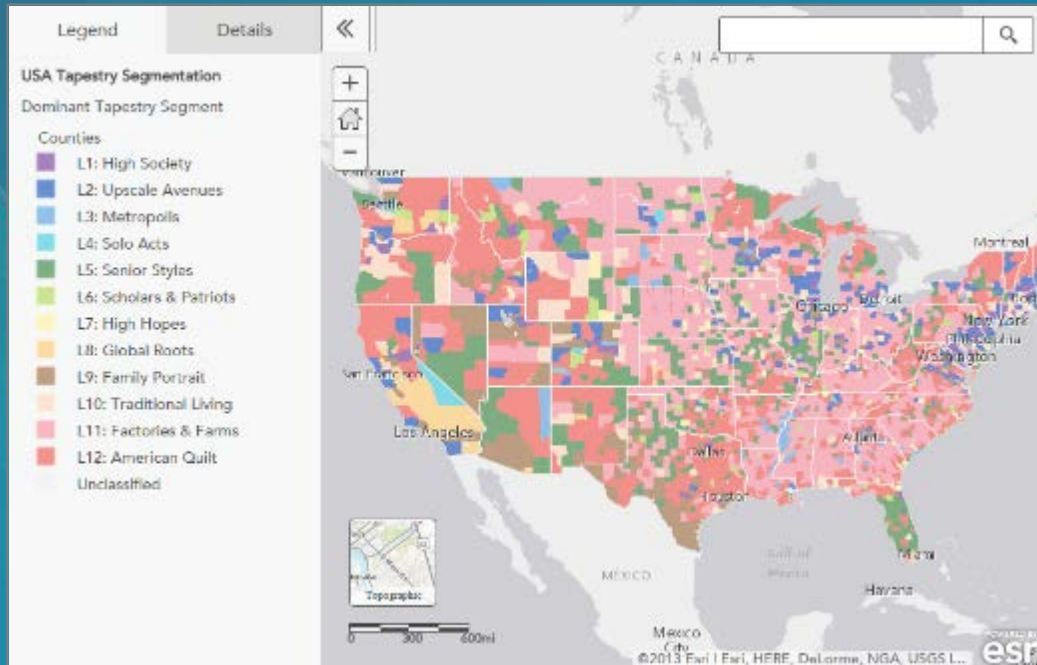


Choose your theme

BACK DONE

Embed in Website – Map Options

- Content (map or presentation)
- Choose size and options



Embed in Website

What would you like to embed?

Map

Choose the size of your map.

Small 300x260 Medium 500x400 Large 940x600 Custom W 500 X H 400

Copy and paste HTML to embed in website

```
<iframe width="940" height="600" frameborder="0" scrolling="no" marginheight="0" >
```

Map Options Add Symbol

Choose options to display on your map.

Zoom Control Scale Bar
 Home Button Location Search
 Basemap Selector Current Extent
 Basemap Gallery Map Details
 Basemap Toggle Legend
Choose Second Basemap: Topographic
Choose Active Panel: Map Details

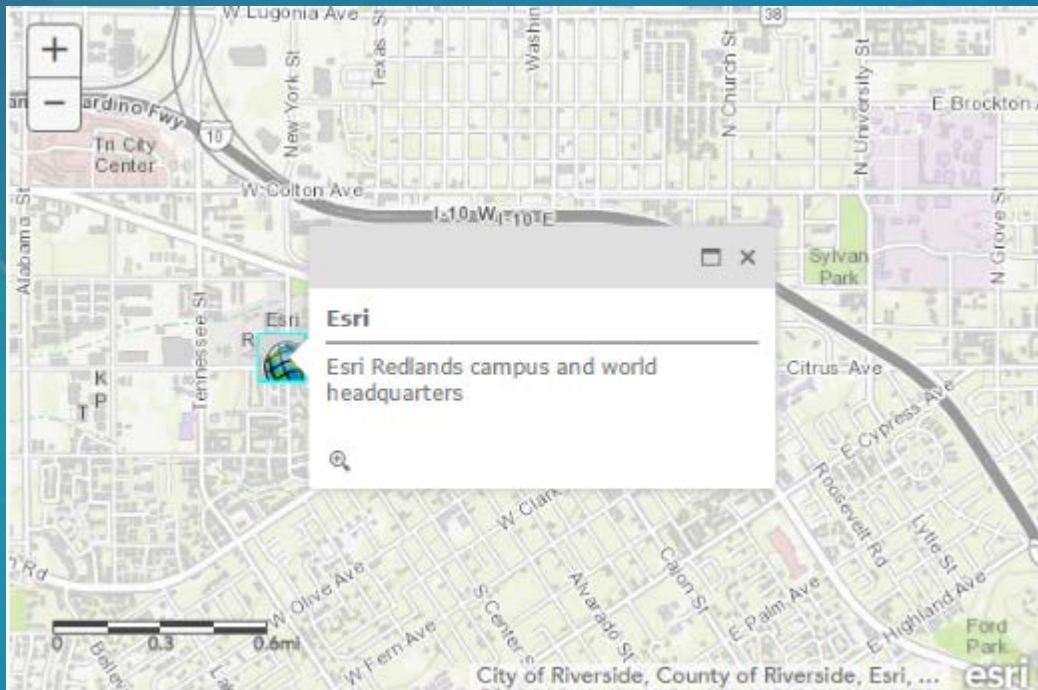
View larger map

Map Preview

BACK DONE

Embed in Website – Add Symbol

- Add symbol at a specified location
- Title, description



Embed in Website

What would you like to embed?

Map

Choose the size of your map.

Small 300x260 Medium 500x400 Large 940x600 Custom W X H

Copy and paste HTML to embed in website

```
<iframe width="500" height="400" frameborder="0" scrolling="no" marginheight="0">
```

Map Options Add Symbol

Select a location for your marker symbol.

Search Latitude/Longitude

Latitude (Y): Longitude (X): SET LOCATION

Provide a title for your marker symbol.

Provide a description for your marker symbol popup.

Provide the url to your marker symbol.

BACK DONE

DEMONSTRATION

Embedding Web Apps

Embedded Apps

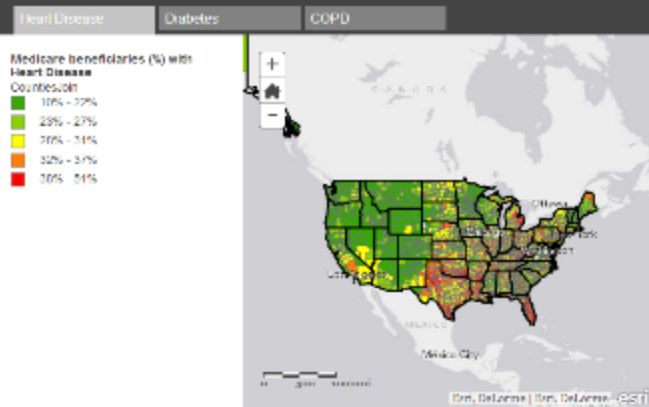
The Problem:

Medicare is not doing enough to best care of chronically ill patients, and the limitations of the fee-for-service system are a major factor in these problems and their costs. This is critically important because most Medicare enrollees suffer from multiple chronic conditions and account for almost all of the costs.

According to CMS, in 2010, 68 percent of Medicare enrollees suffered from two or more chronic conditions, and accounted for 80 percent of Medicare spending (roughly \$407 billion annually). Additionally, 68 percent of hospital readmissions involved beneficiaries with multiple chronic conditions. There are emerging models of care that are meeting the needs of chronically ill patients – at lower costs – but the vast majority of these innovative care delivery models are located in the Pacific Northwest, the Midwest, and Northeast, leaving millions of Medicare enrollees across the country without access to proven, integrated models of care.

Medicare Beneficiaries with Chronic Conditions

Click the tabs below to see county-level data for 3 chronic conditions.



State-by-state: click here to see the number of Medicare beneficiaries suffering from chronic disease in each state

SHARE YOUR CHRONIC CARE STORY

Please click here to share your chronic care story.

RELATED FILES

OFFICE OF GOVERNOR MARTIN O'MALLEY

Home | Education | Safety | Environment | Families | Jobs | Programs

Maryland: Stronger Together Map

To learn about additional opportunities to volunteer, please visit <http://www.volunteermatters.org> to find a volunteer center in your county. [Welcome & more information]

Find address or place. Enter city and state. Press [Enter] on your keyboard.

Maryland STRONGER TOGETHER

EPA United States Environmental Protection Agency

Learn the Issues | Science & Technology | Laws & Regulations | About EPA

Compliance and Enforcement Home

2011 Compliance & Enforcement Results

Basic Information

Where You Live

Enforcement Cases Map

Case Highlights

Enforcement Results

End of Year Data and Trends

Program Highlights

Advanced Search | A-Z Index

Compliance and Enforcement Annual Results 2011 Fiscal Year

You are here: EPA Home » Compliance and Enforcement » Annual Results 2011 » Cases Map

Concluded EPA Enforcement Cases Map for 2011 Fiscal Year

This interactive map shows information on enforcement actions and cases from 2011. They include civil enforcement actions taken by EPA at facilities, criminal cases prosecuted by EPA under federal statutes and the U.S. Criminal Code, and cases in which EPA provided significant support to cases prosecuted under state criminal laws. The indicators on the map generally mark the location of the site or facility where the violations occurred or were discovered.

How to Use the Map

Add or subtract EPA enforcement actions to and from the map by checking or un-checking the box next to the program of interest (water, air, etc.). Zoom the map to an exact location. Enter a city and state in the search box, then press the [Enter] key on your keyboard or use the zoom bar in the map's upper left corner. Click on the indicator to get information on the environmental enforcement case. See "Questions About the Maps" for additional information and needs, accommodations related to a disability.

Find address or place. Enter city and state. Press [Enter] on your keyboard.

Legend | Details

Enforcement Actions

- Criminal
- Federal Facility
- Chemical

Embedding Apps

- Any application can be embedded using `<iFrame>`
- Use 100% to fill out width of fluid page

Dimensions

```
<p><iframe width=100% height="600" frameborder="1"  
scrolling="no" marginheight="0" marginwidth="0"  
src="http://storymaps.esri.com/stories/maptour-  
palmsprings/"></iframe></p>
```

App URL

Embedding Story Maps



&embed



DEMONSTRATION

Group Apps

Groups

Organize your content and help you collaborate with others

The image displays two screenshots of the Esri Groups interface. The left screenshot shows the 'Esri Maps and Data' group page, which includes a sidebar with navigation options like 'Home', 'Maps', 'Layers', 'Scenes', 'Apps', 'Tools', and 'Tiles'. The main content area lists three map items with their titles, descriptions, and metadata. The right screenshot shows the 'My Groups' overview page, which features a 'CREATE A GROUP' button, a 'Show' button, and a list of groups the user is a member of, including 'Climate Resilience' and 'Climate Resilience App Challenge 2014'. A 'Find...' search bar on the right allows filtering groups by organization or public status.

Esri Maps and Data

HOME START

The Esri Maps and Data group provides access to online basemap and reference map services, map layers and documents, and tools to use in your GIS work.

Group Content

[Home](#) [Details](#) [Rating](#) [Views](#) [Date](#)

All Results

- 2013 Alcoholic Beverage Spending in the United States**
This map shows the average amount spent on alcoholic beverages per household in the U.S. in 2013 in a multiscala map (by state, county, ZIP Code, tract and block group). ArcGIS Online subscription required.
Web Map by esri
Last Modified: December 30, 2014
★★★★☆ (1 rating, 0 comments, 16,840 views)
- 2013 Average Household Size for Owner Occupied Housing in the United States**
This map shows the average household size (persons per household) in owner occupied housing in the United States in 2013 in a multiscala map (by state, county, ZIP Code, tract and block group). ArcGIS Online subscription required.
Web Map by esri
Last Modified: December 30, 2014
★★★★☆ (0 ratings, 0 comments, 1,314 views)
- 2013 Diversity in the United States**
This map summarizes race and ethnic diversity in the U.S. in 2013 in a multiscala map (by state, county, ZIP Code, tract and block group). ArcGIS Online subscription required.
Web Map by esri
Last Modified: December 30, 2014
★★★★☆ (0 ratings, 0 comments, 5,025 views)

Group Details

esri
Status: public
Contributors: All members
Tags: Esri, ESRI, GIS, Maps, Data, Services, Tools, ArcGIS, Online, demographic, population, economic, census, basemap, topography, topographic, boundaries, streets, roads, relief, USA, US, national, global, 3D, terrain, shaded, background, Bing map, open street map, OSM, Imagery, aerial, photography, cart data and maps, web maps and data

1 Member

esri

My Groups

CREATE A GROUP

Show

You are a member of 15 groups

- Climate Resilience**
A showcase of maps and apps that help communities be more resilient in the face of a disaster.
created by climate_resilience on April 3, 2014
Details
- Climate Resilience App Challenge 2014**
Apps can help communities see, understand, and prepare for climate risks. Join the Climate Resilience App Challenge.
created by climate_resilience on April 3, 2014
Details
- Climate Resilience App Challenge 2014 Featured**
A showcase of maps and apps from the Esri Climate Resilience App Challenge 2014.
created by climate_resilience on April 3, 2014
Details
- Climate Resilience Featured**
A showcase of maps and apps that help communities be more resilient in the face of a disaster.
created by climate_resilience on April 3, 2014
Details

Find...

- The organization's groups
- The organization's groups that are public

Featured Groups

- National Maps for USA
- Esri Maps and Data
- Community Basemaps
- Landsat Community
- Web Application Templates
- ArcGIS for Local Government
- GeoResiliency

Configurable group gallery applications




CREATE A WEB APP

Create a New Web App ✕


Select a template to create a new app. You can also preview to get an idea of its capabilities or download it to your computer and customize it further.

Crowdsource Manager




Create ▾

Crowdsource Reporter




Create ▾

Map Carousel



Create ▾


Maps and Apps Gallery



Create ▾

Public Gallery

Landout Community

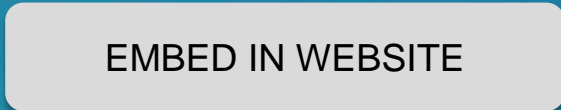


Create ▾

Embedding Groups

Embed group contents using a variety of options

- Only for public items
- Choice of layouts
- Choice of viewer



Embed in Website

Embed this group in a website. Note that only public web maps and web applications will display in the embedded gallery.

Copy and paste HTML to embed in website

```
<iframe title="Esri Maps and Data" scrolling="no" frameborder="0" src="http://bwszukalski.maps.arcgis.com/home/webmap/embedGallery.html?displayapps=true&displayinline=false&group=1d1f24e8556642f49448f1c88b5a571b&templateurl=http%3A%2F%2Fwww.arcgis.com%2Fapps%2FViewer%2Findex.html" style="width:960px; height:460px"></iframe>
```

Display web maps

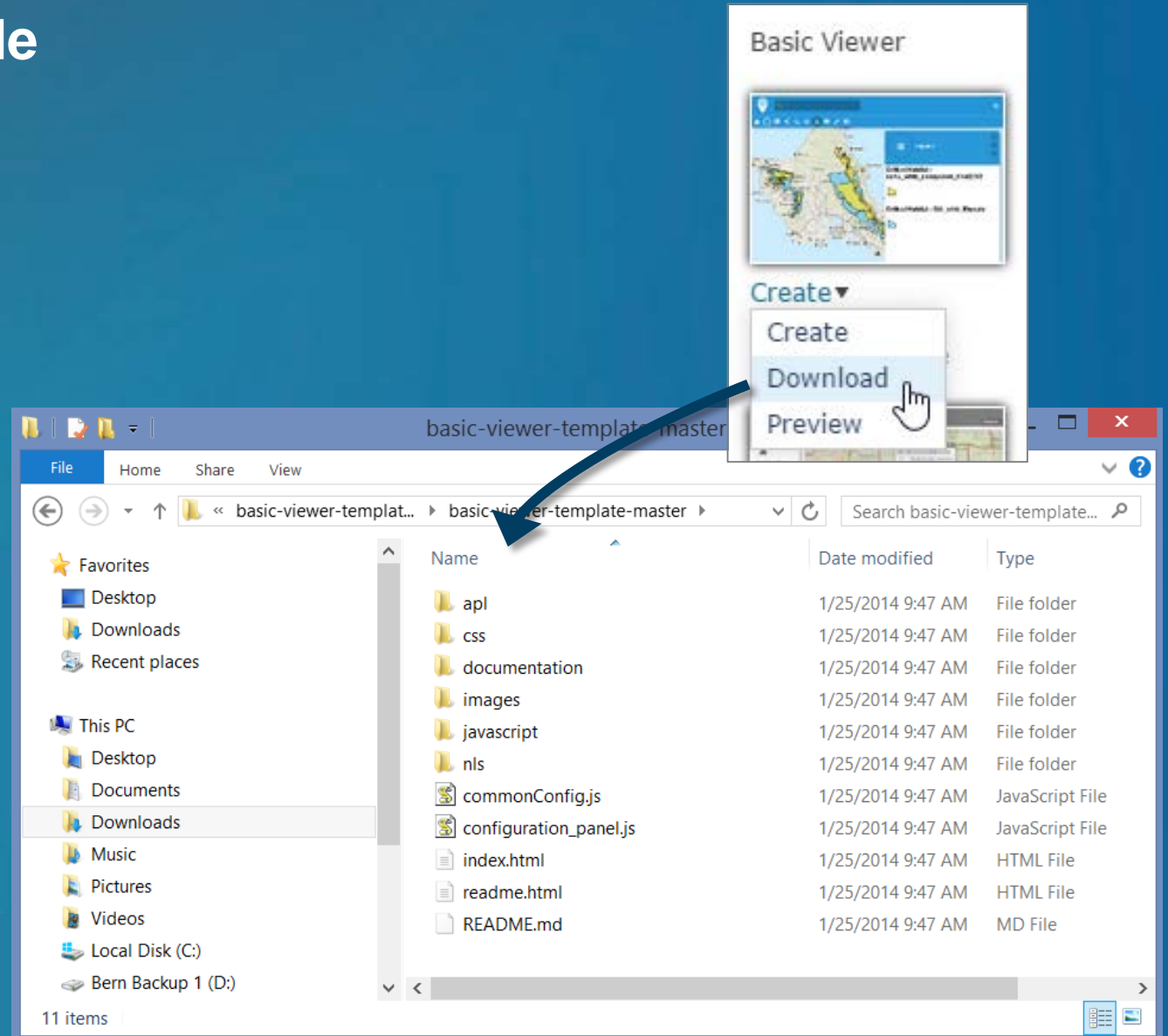
- over the embedded gallery
- in a new window with a predefined application
Basic Viewer
- in a new window with a configured application
Enter URL to application

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App Source Code

Web app template source code

- Source download from GitHub
- Delivered as Zip file
- Edit using any text editor
- Can be highly customized
- Must host from own server



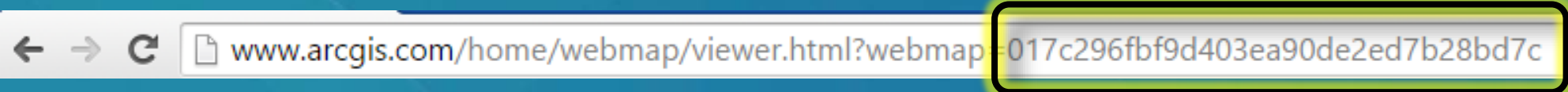
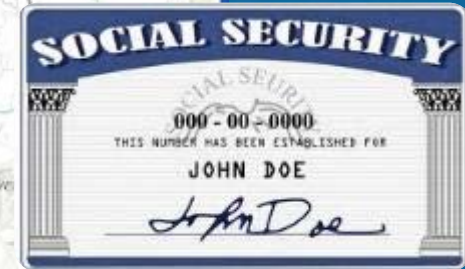
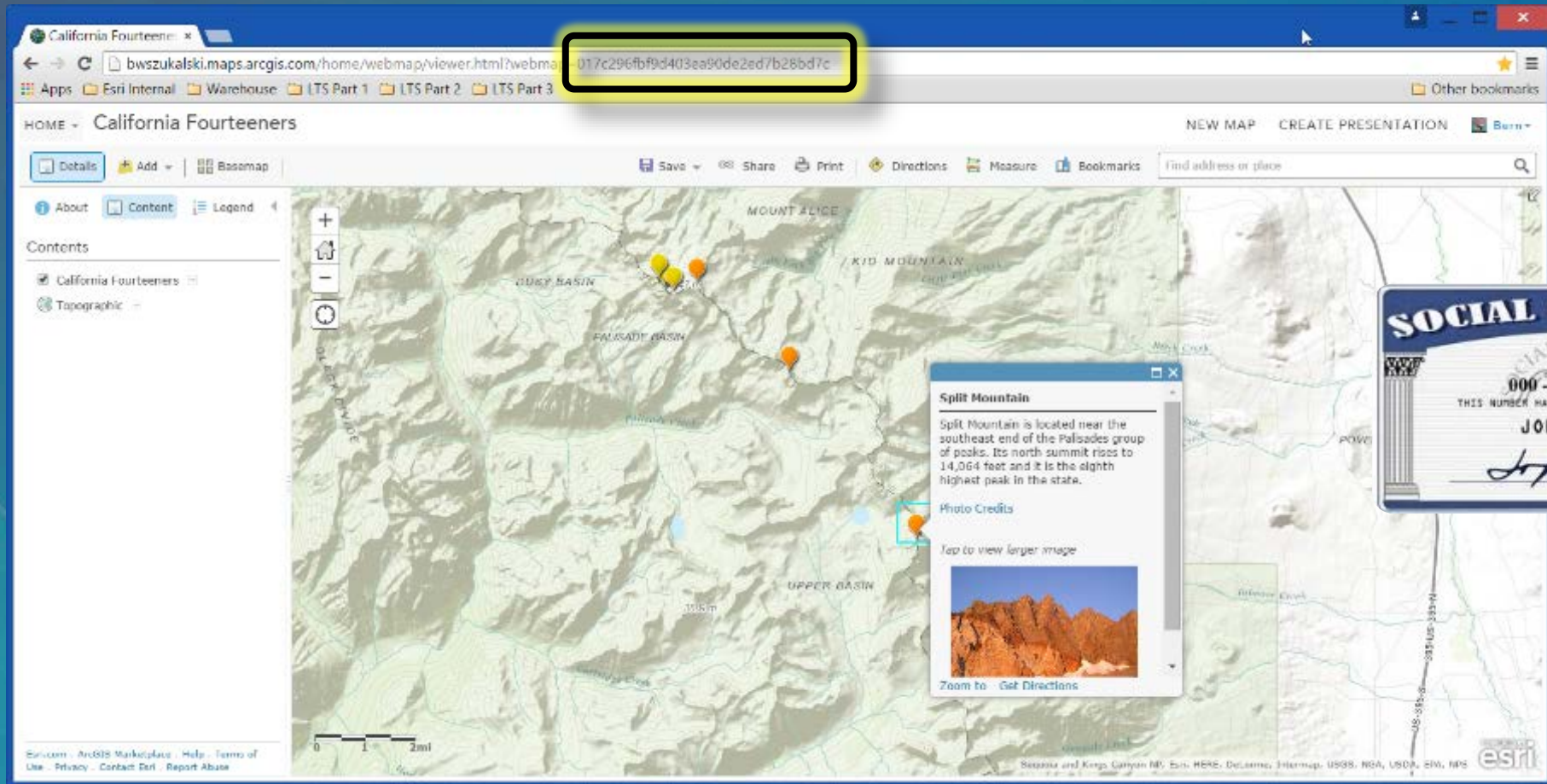
The screenshot shows a web browser window displaying the GitHub repository page for 'basic-viewer-template-master'. A dropdown menu is open over the 'Download' button, with a blue arrow pointing from the 'Download' option to the 'Download' button in the file explorer below.

The file explorer window shows the following files and folders:

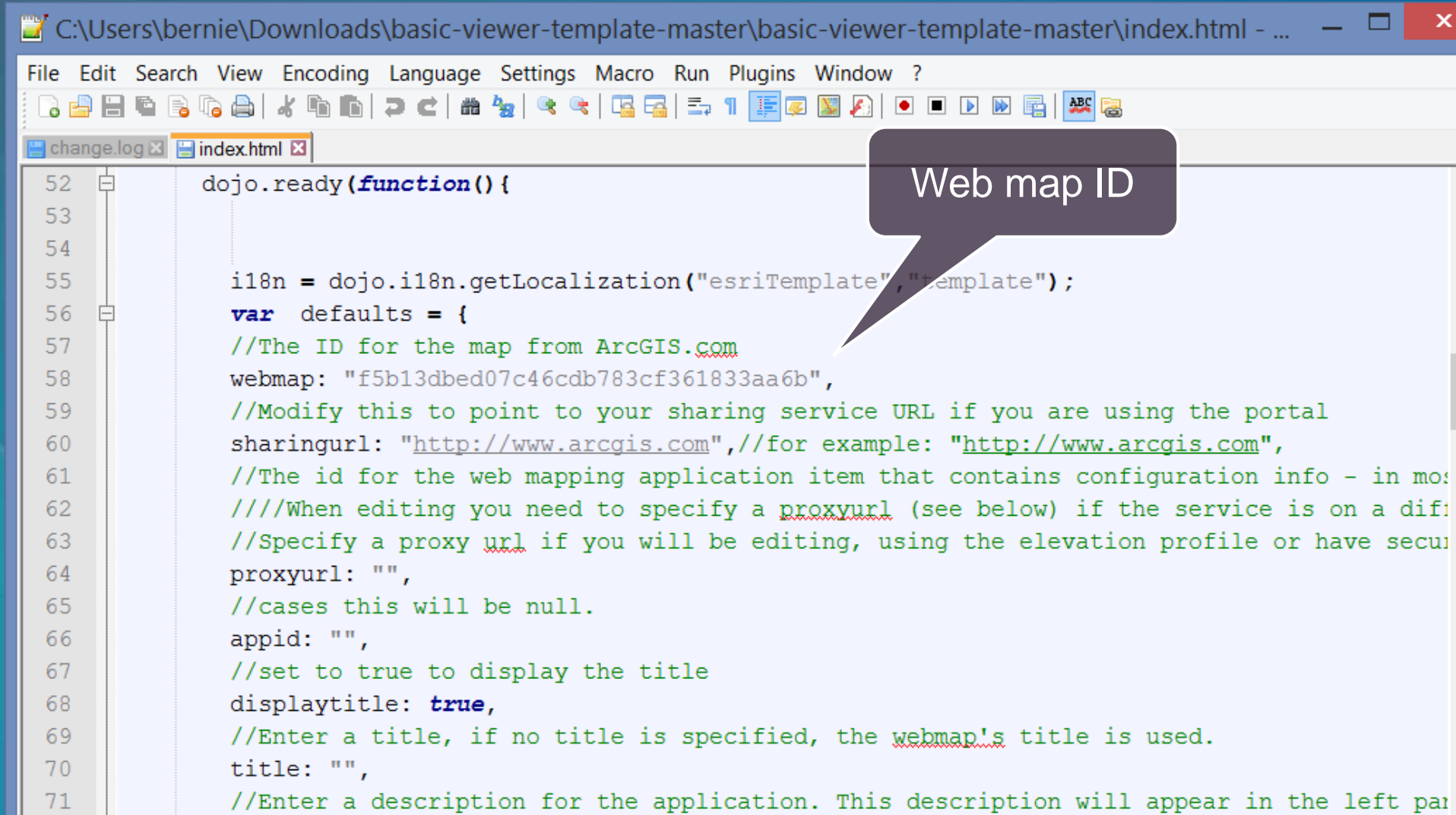
Name	Date modified	Type
apl	1/25/2014 9:47 AM	File folder
css	1/25/2014 9:47 AM	File folder
documentation	1/25/2014 9:47 AM	File folder
images	1/25/2014 9:47 AM	File folder
javascript	1/25/2014 9:47 AM	File folder
nls	1/25/2014 9:47 AM	File folder
commonConfig.js	1/25/2014 9:47 AM	JavaScript File
configuration_panel.js	1/25/2014 9:47 AM	JavaScript File
index.html	1/25/2014 9:47 AM	HTML File
readme.html	1/25/2014 9:47 AM	HTML File
README.md	1/25/2014 9:47 AM	MD File

Map ID

Each map has a unique identifier, like a social security number



Insert web map ID into source code



```
C:\Users\bernie\Downloads\basic-viewer-template-master\basic-viewer-template-master\index.html - ...
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
change.log index.html
52  dojo.ready(function() {
53
54
55      i18n = dojo.i18n.getLocalization("esriTemplate", "template");
56      var defaults = {
57          //The ID for the map from ArcGIS.com
58          webmap: "f5b13dbed07c46cdb783cf361833aa6b",
59          //Modify this to point to your sharing service URL if you are using the portal
60          sharingurl: "http://www.arcgis.com", //for example: "http://www.arcgis.com",
61          //The id for the web mapping application item that contains configuration info - in most cases this will be null.
62          //When editing you need to specify a proxyurl (see below) if the service is on a different domain
63          //Specify a proxy url if you will be editing, using the elevation profile or have security enabled
64          proxyurl: "",
65          //cases this will be null.
66          appid: "",
67          //set to true to display the title
68          displaytitle: true,
69          //Enter a title, if no title is specified, the webmap's title is used.
70          title: "",
71          //Enter a description for the application. This description will appear in the left pane
```

Web map ID

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The Road Ahead

App Template Road Ahead

- Performance improvements
- Continuing to update and enhance design
- Improvements in configuration experience
- Improvements in usability
- New templates
 - Early Adopter Templates group
- New ways to organize

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questions?
& answers



Resources

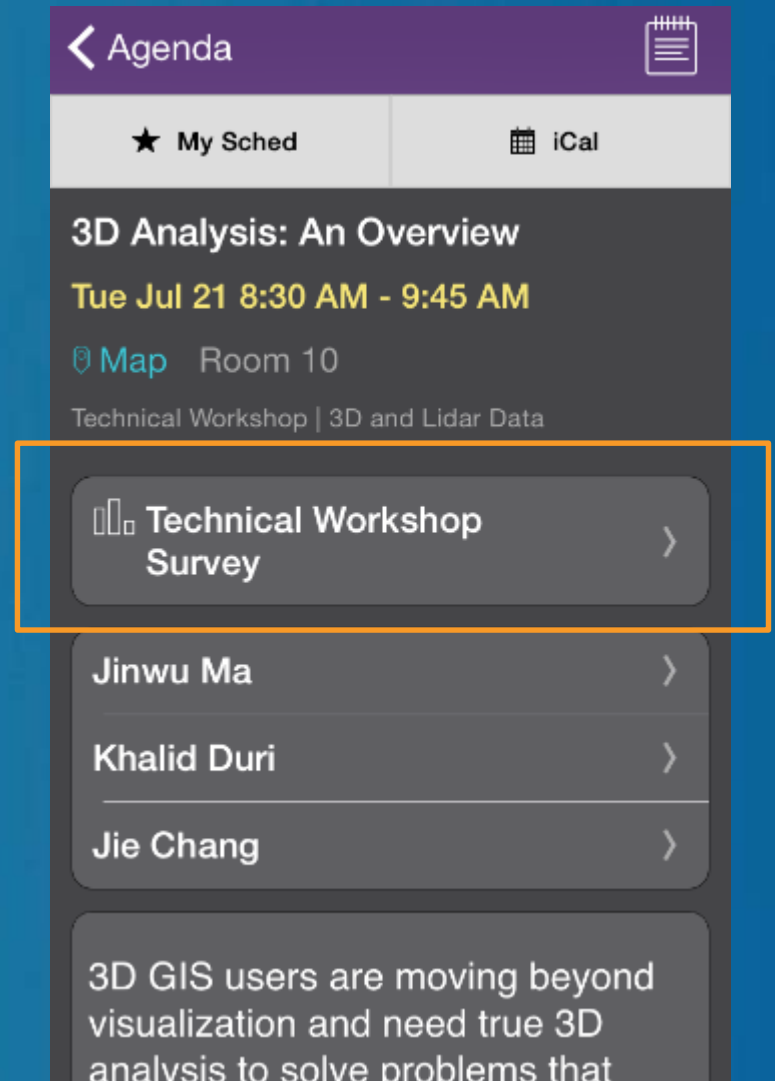
Documentation:

Blog:

Online training:

Surveys

- Please fill out the session survey in your mobile app
- Select **ArcGIS Web Application Templates**
- Use the Search Feature to quickly find this title
- Click “Technical Workshop Survey”
- Answer a few short questions, and enter any comments



Thanks!

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