Leveraging ArcGIS Web Mapping Applications
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Workshop Outline

• Building great information products
• What are my options and where do I find them?
• How to choose which template to use?
• Apps and your organization
• Road ahead
Building Great Information Products
Web Maps
How we communicate geographically
Apps
Putting together the entire information experience
A great app starts with a great map
Crafting the map experience

Layer Pop-ups

Transparency

Display Scale Range

Options depend on layer type
Pop-ups
Turning a list of attributes into a meaningful display of information
Map Viewer vs. Web App Templates
Deliver your information in the right context

Map viewer (for authoring) → Storytelling basic template
Public information template → Story map tour
Where do I find Web App Templates?

- ArcGIS Web Map App Template Gallery
- ArcGIS Online
  - Items
  - Groups
- Story Maps
  - storymaps.arcgis.com
- Solutions templates
  - solutions.arcgis.com
What types of web app templates are there?

- **Hosted**
  - Templates stored in cloud
  - Include configuration capabilities
  - Recommended when possible

- **Downloadable**
  - Source on GitHub
  - Must host on own server
  - Unlimited customization potential
What can I do with this great app I just made?

- Use in browser
- Use on device
- Embed in website
Web Map App Template Gallery
Choose from gallery to publish, preview, or download

- Publish
- Preview
- Download
Publish, Download, or Preview

Click publish to couple and host your map with the application template.

Download source to customize and host on your own.

Preview application.
Configure and publish from your account
Then save and share like any other item
Each app template has unique configuration options and experience
Choose the right user experience
Presenting Information and Social Media
Public Information Map (PIM)
Choose the right user experience

Comparison of multiple maps or layers
Access to basic health care is inadequate in many parts of the U.S.

These county maps present two ways of examining a fundamental public health challenge. To the left of the slider bar: a look at doctor's offices relative to population. To the right: primary health providers.

The availability of basic health care varies radically from place to place across the nation.

To the left of the vertical slider bar, counties outlined in orange had no doctor's office in 2009, according to the Census Bureau. Clark County, Mississippi, for example, had a population of over 17,000 but no doctor's office, while Manhattan had a doctor's office for every 900 residents.

The map to the right shows the relative availability of primary health care providers by county. Enhanced access to health care is key to improving the health of Americans.

**Legend**

- **Left side**
  - Counties with no doctor's office
  - People per doctor's office in 2005:
    - Very high need
    - High need
    - Average
    - Low need
    - Very low need

- **Right side**
  - Counties with no primary care providers in 2006

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Choose the right user experience

A path to follow but room to explore
Story Map Tour
Things to keep in mind

- What purpose does your app serve?
- Who is the intended audience?
- How and where will your app be used?
- What do end users need to accomplish?
Using Hosted Templates
Hosted Templates Life Cycle
Current templates and archives

- Current templates are available via galleries
- Templates continually evolve
- Retired hosted templates are remain hosted
- Web App Builder presents other alternatives
Tour of New Templates
Working With Template Source Code
Template source code available for customization

- Source download from GitHub
- Delivered as Zip file
- Edit using any text editor
Map Identifier
Each map has a unique identifier, like a social security number
doj0.ready(function(){

    i18n = doj0.i18n.getLocalization("esriTemplate","template");
    var defaults = {
        // The ID for the map from ArcGIS.com
        webmap: "f5bl3dbed07c46c6b783cf361833a8b",
        // Modify this to point to your sharing service URL if you are using the portal
        // The id for the web mapping application item that contains configuration info - in most
        // cases this will be null.
        appid: ",
        // set to true to display the title
        displaytitle: true,
        // Enter a title, if no title is specified, the webmap's title is used.
        title: ",
        // Enter a description for the application. This description will appear in the left panel
    };
Downloading and Tweaking
Embedding Maps, Templates, Galleries
Embedding maps

Copy / Paste HTML

Options

EMBED IN WEBSITE

Copy and paste HTML to embed in website

View Larger Map

Show zoom control. Show location search.
Show scale bar. Show basemap selector.
Show legend. View Larger Map

Options:

- Small: 300x200
- Medium: 500x400
- Large: 940x600
- Custom Width: 500 Height: 400
Embedding apps

• Any app can be embedded using an <iframe>

```html
<p>Using an iFrame width = 100% x 600px</p>
<p><iframe width=100% height="600" frameborder="1"
scrolling="no" marginheight="0" marginwidth="0"
src="http://storymaps.esri.com/stories/maptour-palmsprings/"
></iframe></p>
```
Embedded Apps
Embedding Maps and Galleries

Ian
Custom App Templates For Your Organization
Configuring your organization

How to Tell Your Story Using Story Map Apps

Web App Templates

Web application templates contain sample layouts you can use to build web mapping applications with little or no development. Choose which group contains the web app templates you want to use.

Base Map Gallery

Select the group whose webmaps will be shown in the Basemap Gallery.

Base Map Upgrade group: Sorted by: Title: Ascending

Share the Esri default basemaps to this group when you click Save.

Configure the utility services for your organization.

Printing

Configure your print service. Enter the URL of your print service, or leave blank to use the default printing service.

Example: http://gisserver.domain.com/arcgis/rest/services/Utilities/PrintTools/GPService/Export%20Web%20Map%20Task

Geocoding

Establish the geocoders that members of your organization will have access to. Click Add Geocoder to reference a URL, specify a user friendly name, and set other properties. You can also reorder, configure, or delete your geocoders below.

ADD GEOCODER
Create a Custom Template Group

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App Template Road Ahead

• Performance improvements
• Continuing to update and enhance design
• Improvements in configuration experience
• New templates
  - Early Adopter Templates group
• Looking into better ways of categorization and search/discovery
Questions?