

ArcGIS Experience Builder: Getting Started with Developer Edition

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Outline

- Part 1: Key Features

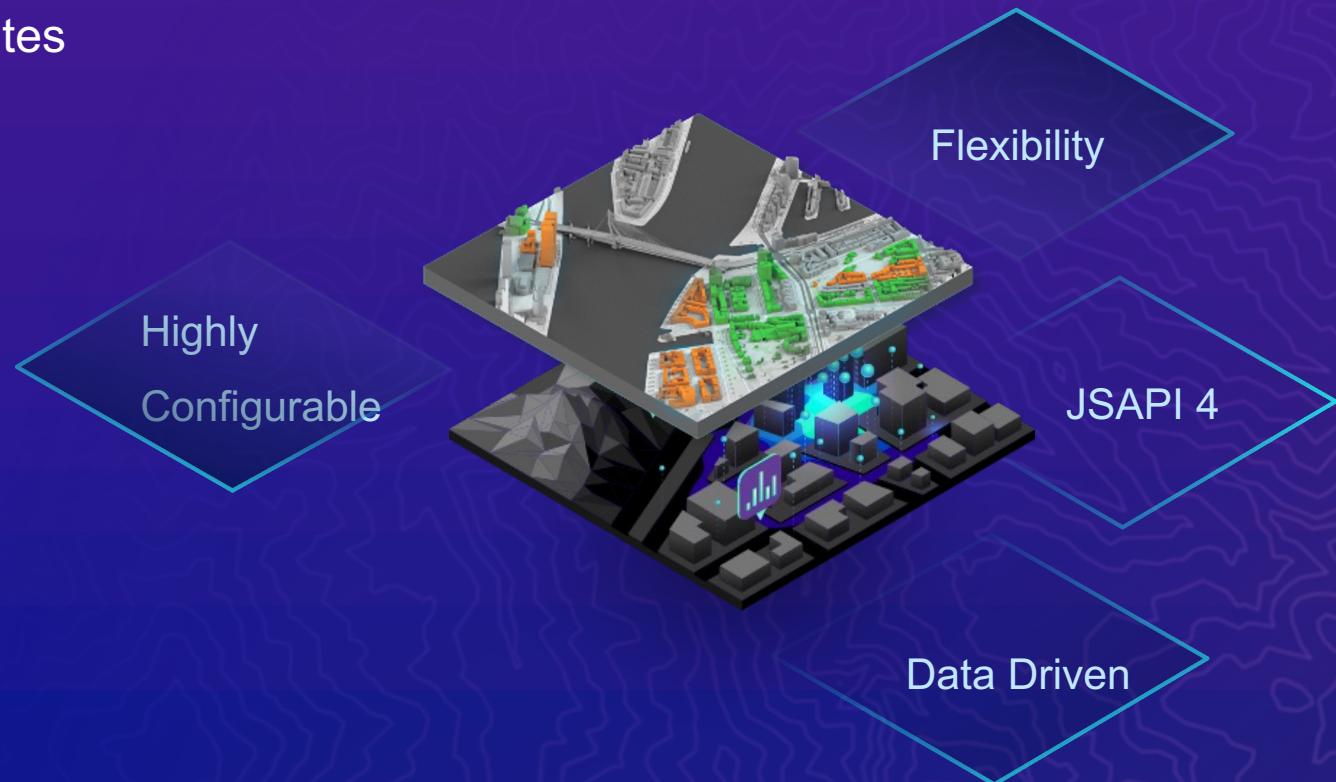
- Key features
- No code & Low code collaboration

- Part 2: More about Dev Edition

- Using custom widgets
- App deployment
 - Deployment to ArcGIS Enterprise
- Resources

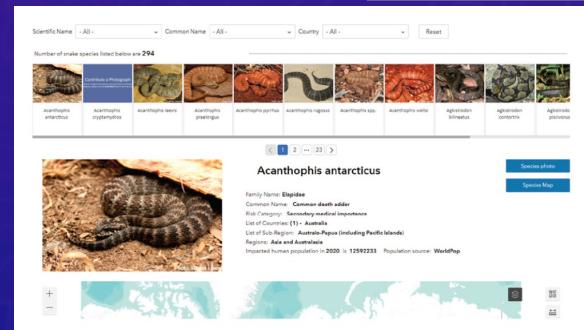
What is Experience Builder?

- Build web apps and pages
 - Explore **design** decisions with templates
 - Access ready-to-use **widgets**
 - Build custom tools
- Data driven
- Modern interface
- Better performance



ArcGIS Experience Builder Key Features

- Mobile optimization
- Flexible design
- 2D and 3D in one app
- Interconnection between widgets
- Integration with other ArcGIS apps
- Extensibility
- Custom widget: minified for you



Connected Digital Twin

Working with a connected digital twin, we can see all of Sunford City's utility networks. This helps us understand how they depend on each other and the role they play together in serving the city.

Previously, we were hindered by not having a system level view. This time, we can increase the resilience of Sunford City as a whole.

Cross-sector collaboration on data and resilience initiatives can result in a more profound impact at a lower cost.

Once again, you only have the budget to make one of these interventions, but you are empowered by seeing the system as a whole.

Choose from:

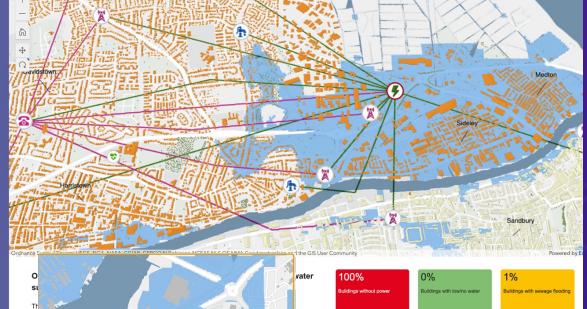
OPTION A: Relocate Sidley's primary power substation

OPTION B: Increase flood protection on telecoms assets and install backup generators at clean water booster pumping stations

OPTION C: Harden Sunford Park's primary power substation and install automated re-zoning (re-routing) of clean water supply

Explore your options

OPTION A **OPTION B** **OPTION C**



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OPTION A **OPTION B** **OPTION C**

Developer Edition

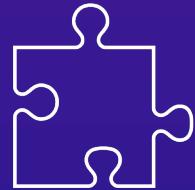
Key Features

Open-Source Widgets



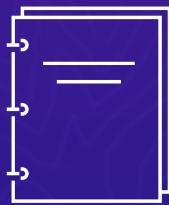
- Ready-to-use widgets provide high quality and stress-tested code samples
- Learn from and easily modify them to meet your needs.

Jimu Library



- A collection of legos used in ready-to-use widgets
- Quickly assemble them to build your own castle

Design System



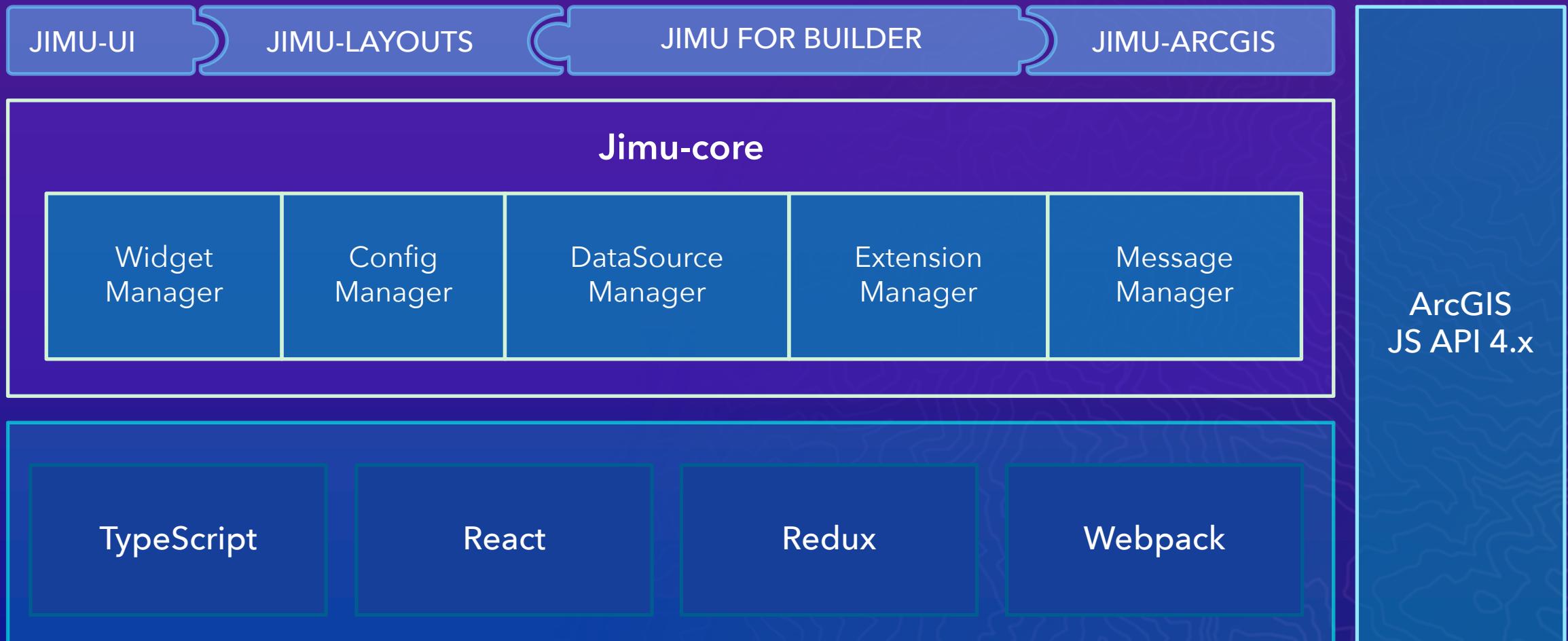
- Storybook as a playground for UI components
- Preview and play UI components with various styles

Coded Once Used Anywhere

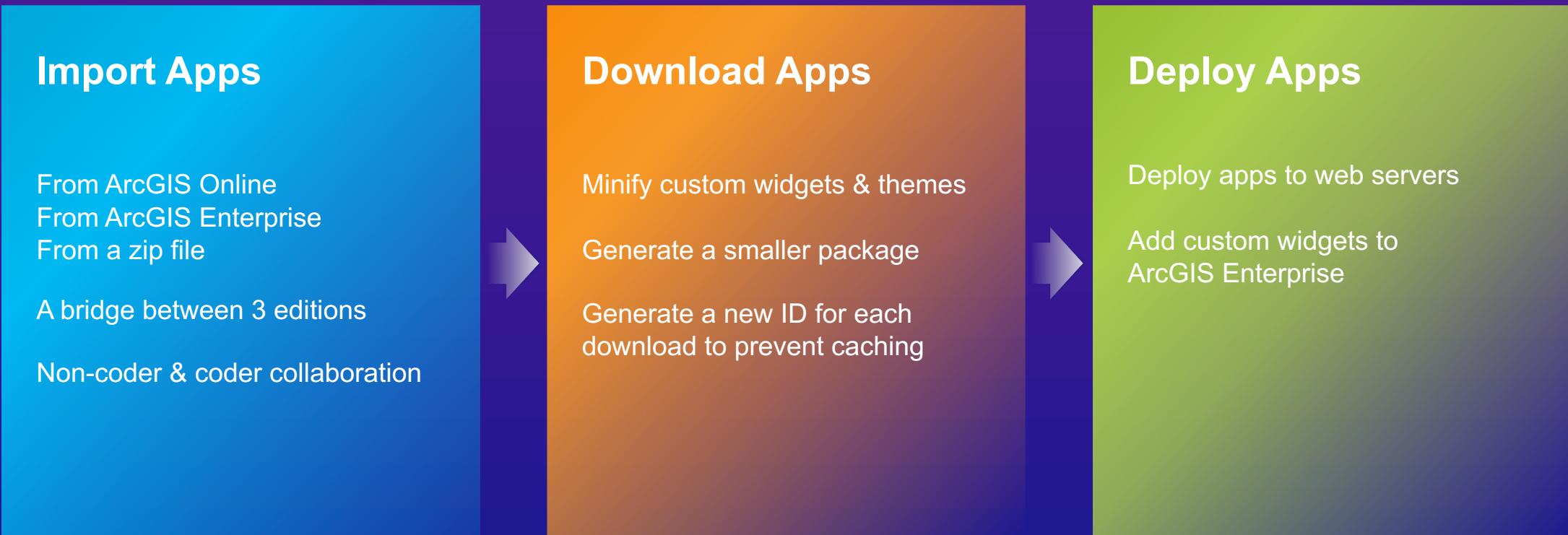


- Custom widgets and themes are portable
- Coded once and used anywhere

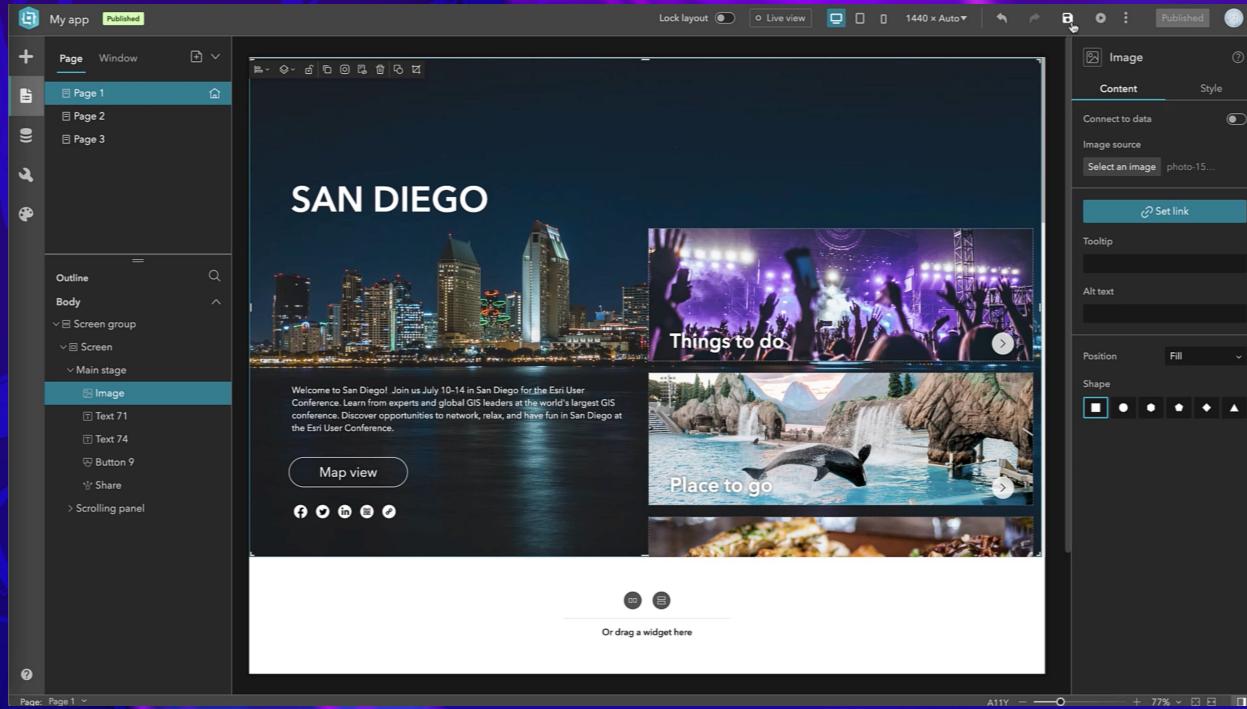
Technology stack



From Collaboration to Deployment



No code & Low code collaboration

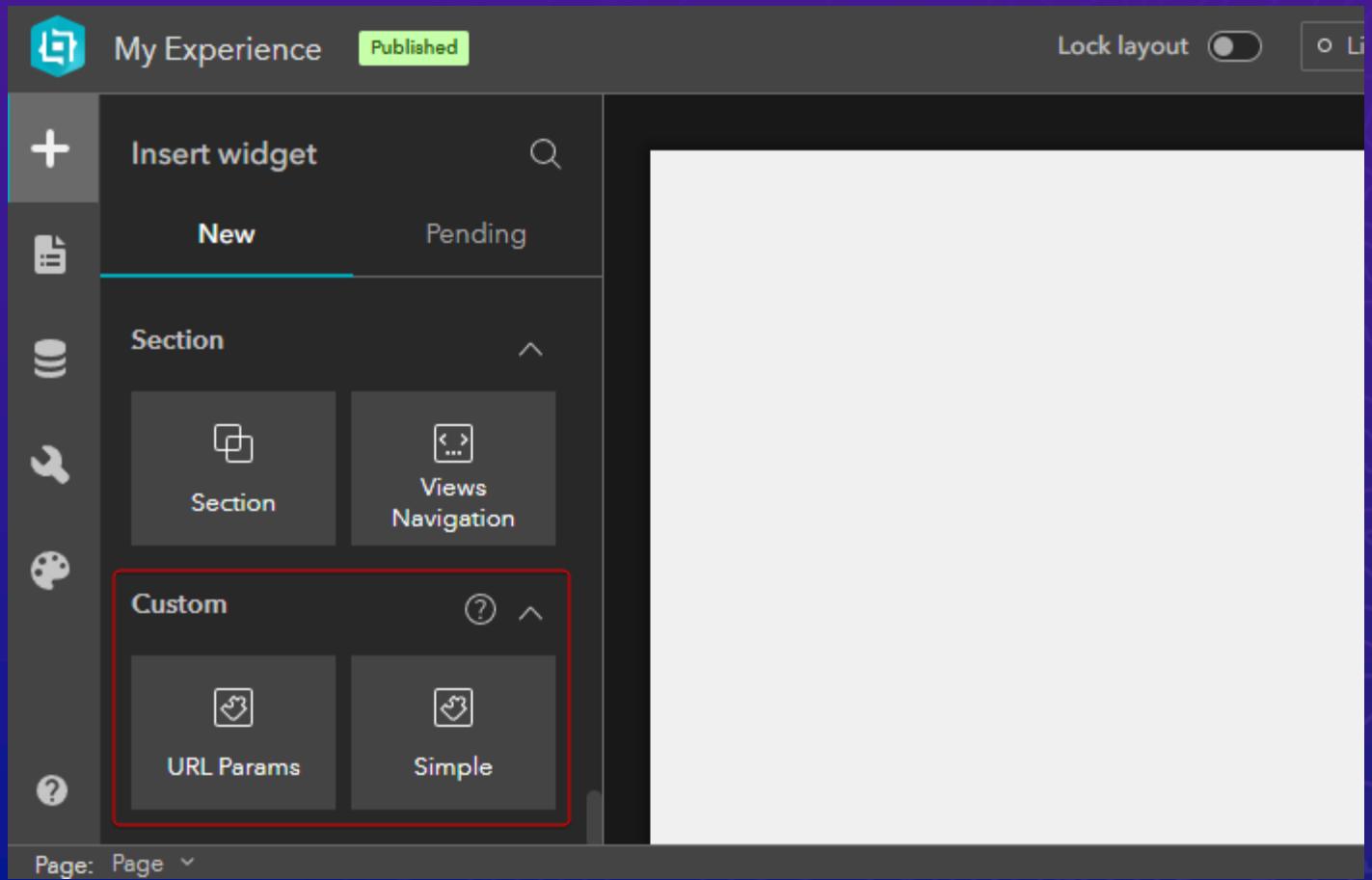


Using Custom Widgets



Experience Builder extensibility

- Your widget here:



Requirements

- Developer Edition
-or-
- ArcGIS Enterprise (> v11.0)

Custom widget sources

- Build your own
- Experience Builder samples page
<https://github.com/Esri/arcgis-experience-builder-sdk-resources>
- Esri Community

Review all custom code before use!

Steps – developer edition

1. Build or obtain your custom widget
2. Copy the files to the correct location
3. Run “npm start” in the “client/” folder

The background features a dark blue gradient with a large, semi-transparent white circle centered in the middle. Overlaid on the left side are several wavy, translucent lines in shades of blue and purple, creating a sense of motion and depth.

Using Custom Widgets demo

Developer edition

Steps – ArcGIS Enterprise

1. Host the custom widget on a web server
2. Register the custom widget in the portal
3. Share the custom widget
4. Add the custom widget to the app

Detailed instructions: esriurl.com/exb-widget-enterprise

The background of the slide features a dark blue gradient. Overlaid on the left side is a faint, light-colored map outline of a coastal region, possibly the British Isles or a similar area. From the top left, several bright, glowing light streaks in shades of purple, blue, and white radiate across the frame, creating a dynamic and futuristic feel.

Using Custom Widgets demo

ArcGIS Enterprise

App Deployment

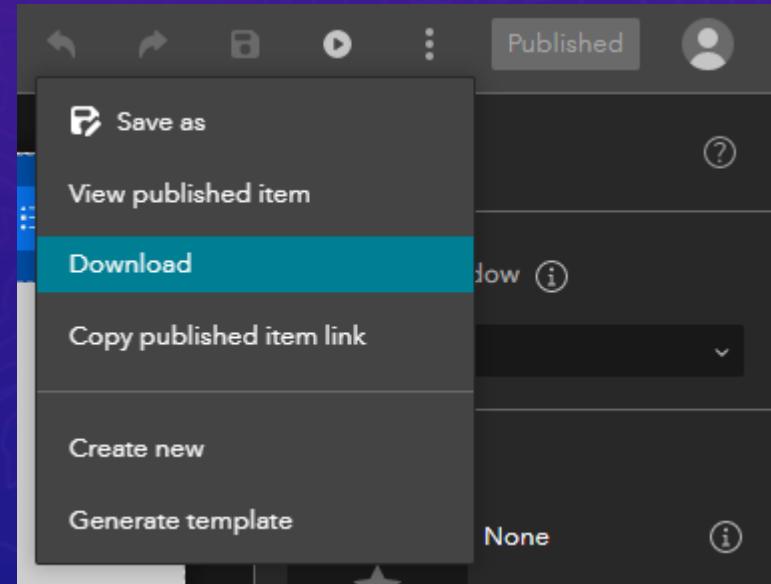


Two patterns for deployment

- ArcGIS Enterprise
- Developer Edition > host on a web server

Developer edition

1. Build the Experience with your custom widgets
2. Download as ZIP
3. Unzip files
4. Add clientId to cdn/1/config.json
5. Host the files on a web server



ArcGIS Enterprise

- Deploy custom widgets to Experience Builder within ArcGIS Enterprise
- Users within ArcGIS Enterprise can build Experiences with those custom widgets
- ArcGIS Enterprise 11.0 or higher

The background of the slide features a stylized, abstract graphic on the left side. It depicts a tree's root system and branches in a light blue color, set against a dark, textured background. A bright, glowing beam of light, composed of horizontal bands in shades of pink, purple, and blue, originates from behind the tree and extends towards the right side of the frame. This light beam creates a strong visual contrast with the dark background.

Deployment Demo

Resources

Documentation (tutorials, resources)

doc.arcgis.com/en/experience-builder

Experience Builder developer documentation

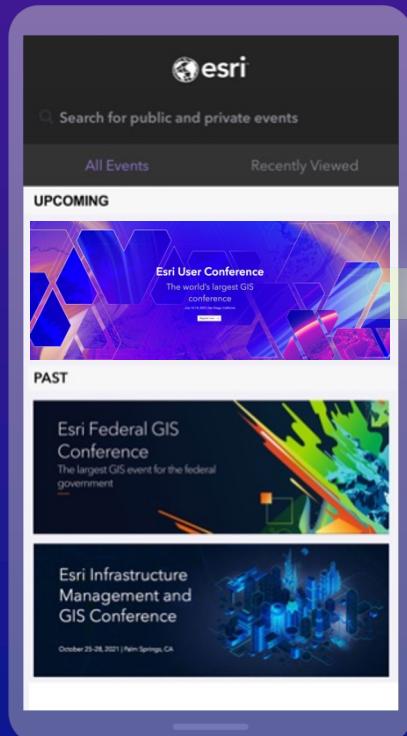
developers.arcgis.com/experience-builder

Esri Community: Experience Builder

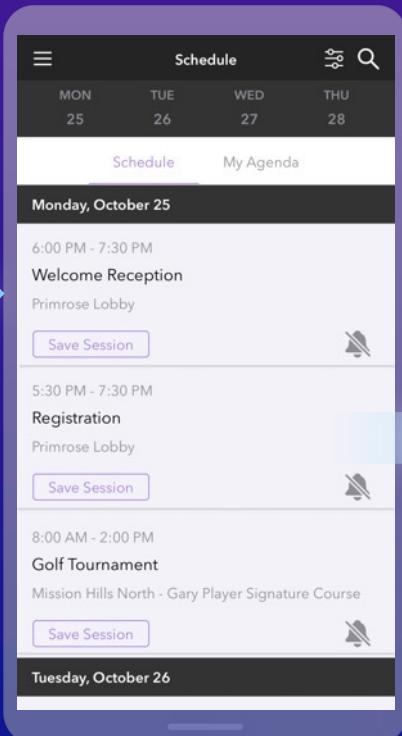
community.esri.com/t5/arcgis-experience-builder/ct-p/arcgis-experience-builder

Please Share Your Feedback in the App

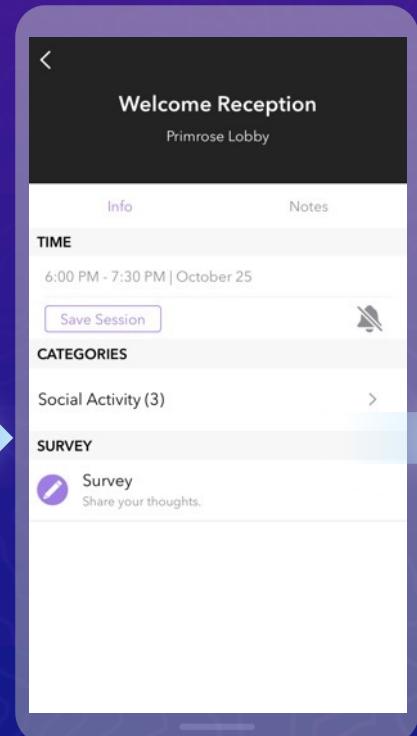
Download the Esri Events app and find your event



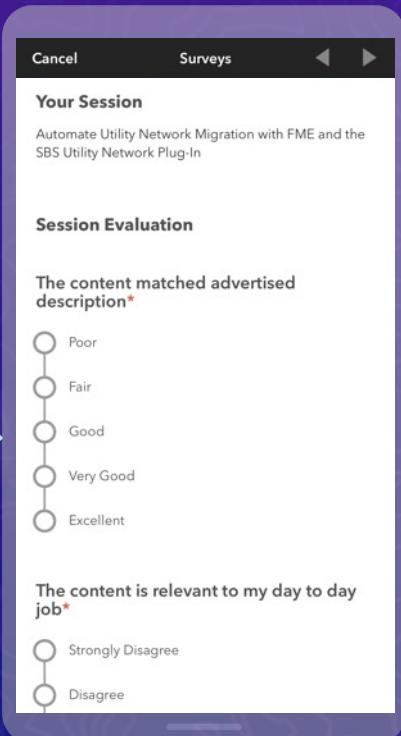
Select the session you attended



Scroll down to "Survey"



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