So Many Options!

How To Choose Between Instant Apps, WebApp Builder, Dashboards, StoryMaps And Experience Builder To Create Your Own Web App in AGO
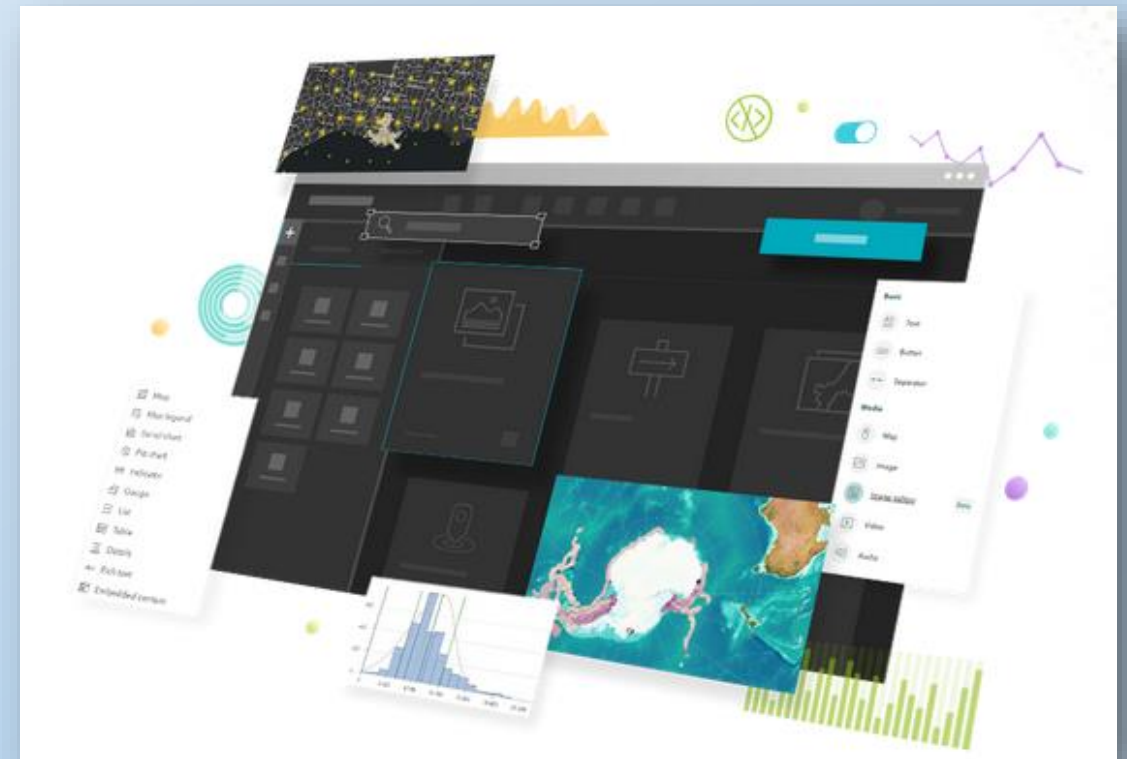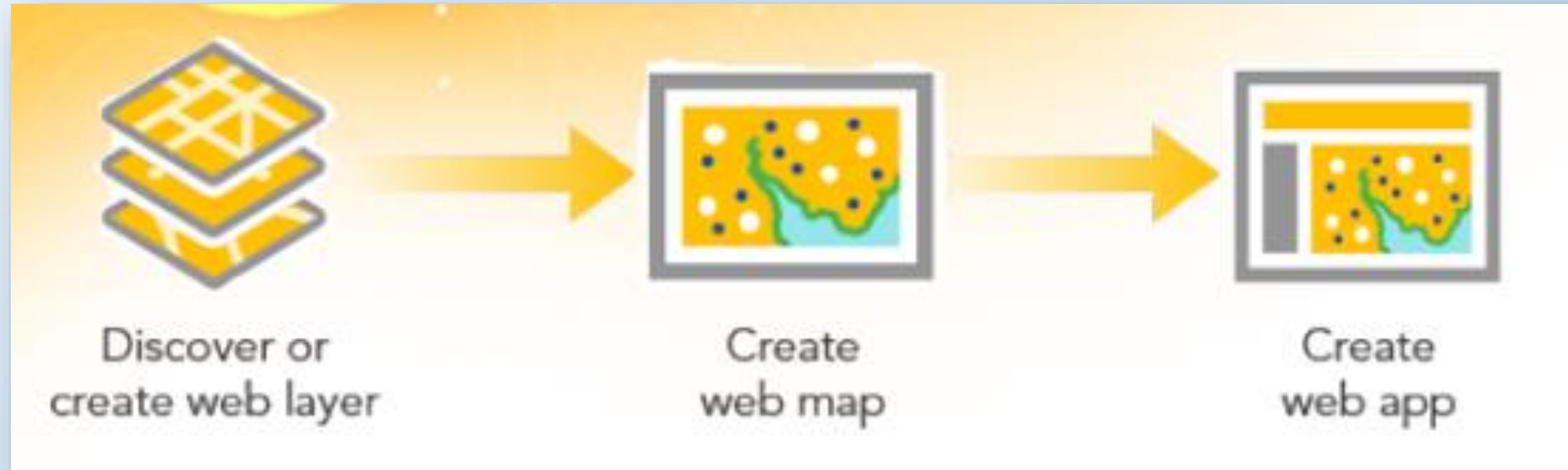
Magda DiFranco, GISP

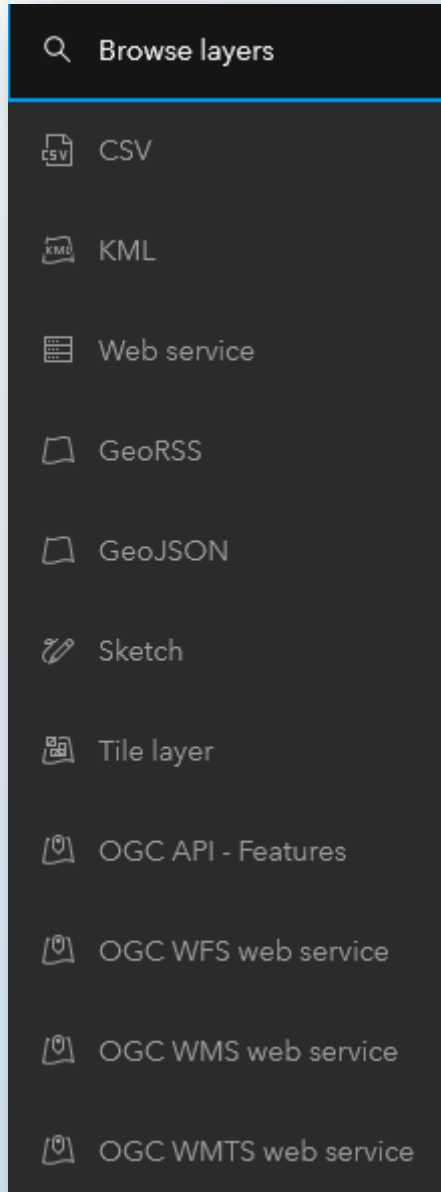GIS Specialist, Clinton Township

Why to make an app?

- Showcase your maps and data

- Engage your audience

- Help stakeholders make informed decisions

- No coding required

How to make an app?

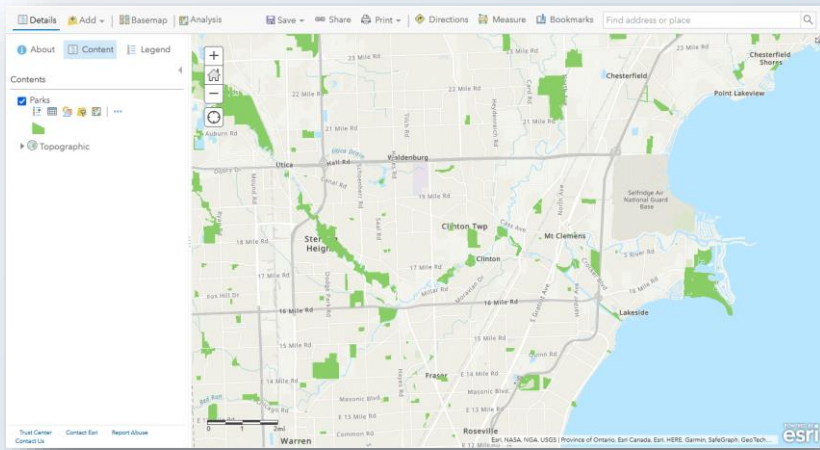Discover or create web layer → Create web map → Create web app

Web Layer

- **Existing feature layer in AGO** – inside and outside Organization

- **From File** – shapefile, CSV, Txt, GPX, GeoJSON (drag and drop in Map Viewer Classic)

- **From Web** – web service from url

- **ArcGIS Living Atlas of the World** – foremost collection of geographic information from around the globe
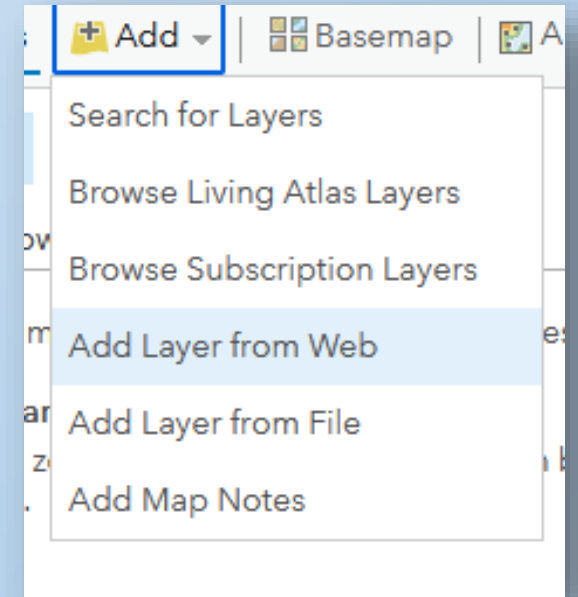
Web Map

Map Viewer Classic

- Analysis

- Add, search and configure streaming feature layers

- Drag and drop from file (CSV)

- Calculate field in table

- Better handling of WFS, WMS, imagery and map image layers

- Vector Tile Style Editor

Map Viewer

- Sketch layers

- Charts

- Blending

- Effects

- Interface improvements

- Dot density mapping style

- Clustering

- Improved symbology

- Grouping layers

- Improved pop-ups

Functionality Guide: The tale of two AGO map viewers
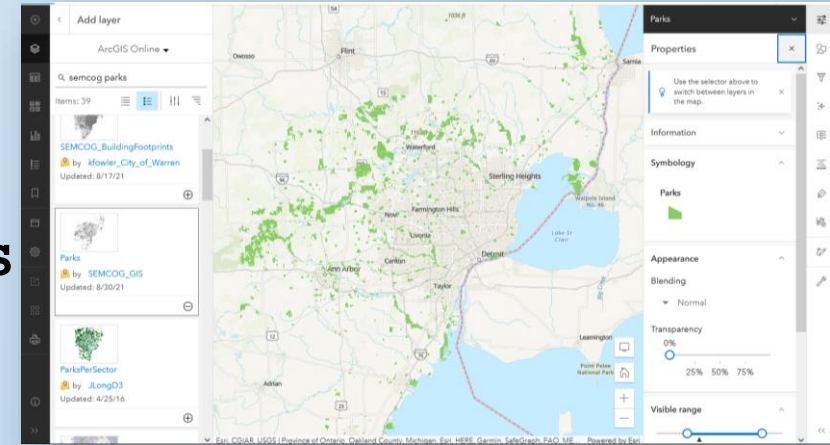
Map Viewer Roadmap

Coming soon Fall / Winter 2021	Coming soonish Winter 2021 / Early 2022	Future 2022
• Configuring Imagery layers	• Configuring related records	• Time zone support
• Adding and configuring WMS, WMTS, WFS	• Styling and configure stream layers	• Vector tile style editor
• Copy / Save layer	• Control feature rendering order	• Review addresses
• Drag and drop CSVs	• Subtype group layer	• Attribute table – calculate, field management
• Redesigned Arcade editor	• Layer effects	
• GeoJson by url	• Display filter	• Charts embedded in Story Maps and other apps across the platform
• Expanded feature editing with snapping	• Analysis	

• Charts
  • Filters
  • Zoom
  • Guides
	• Charts
	  • Line charts
	  • Bubble plot	

Esri: *pushes product update*

Me: Will this fill the capability gaps?

ESRI

Well yes, but actually no
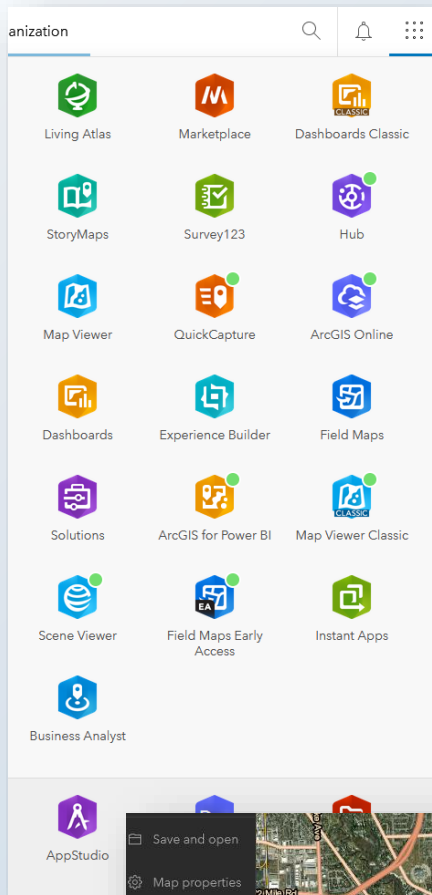
Web App

- From main page (**App Launcher**)

- From map detail page (Create Web App)

- From Map Viewer (Create App) or Map Viewer Classic (Share – Create A Web App)

- From My Content page for a folder (Create App)
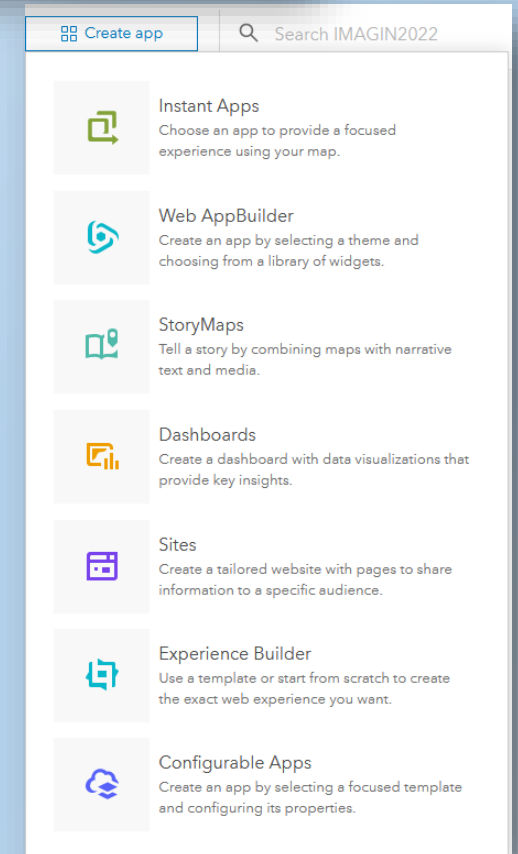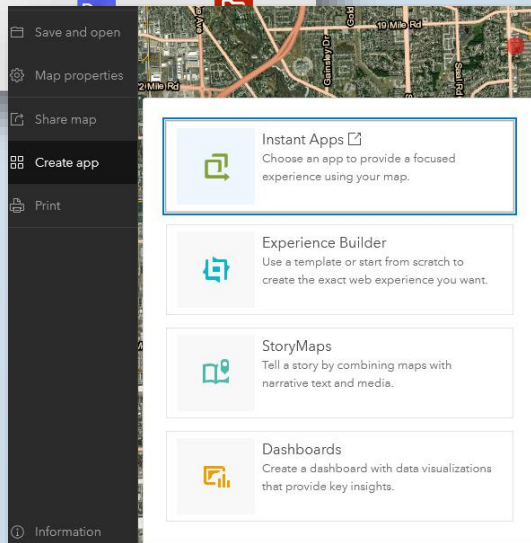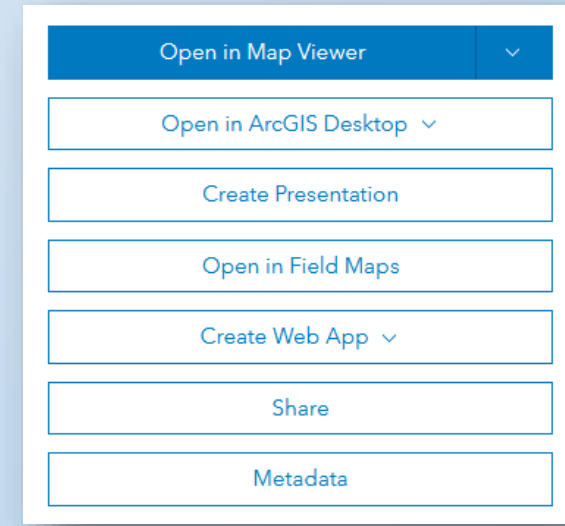
Web App – How To Choose App Builder?

That depends on your data, purpose and audience...
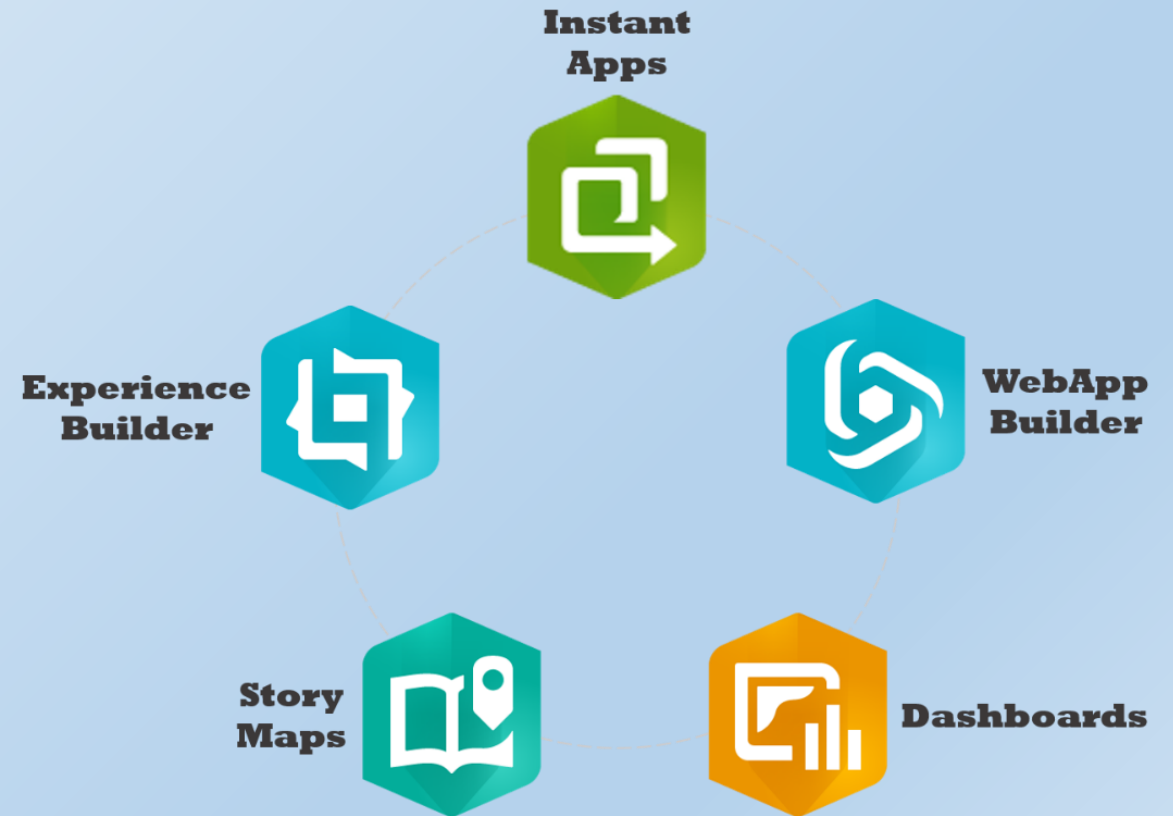*WHY, WHAT, WHO, WHEN, WHERE*

Data
- Spatial, tabular, forms, surveys, media, maps, external, internal

Purpose
- Mapcentric app, interactive story, operational picture, one-page, multi-page or scrolling format

Audience
- Internal staff (office or field), decision-makers, public

Instant Apps

WebApp Builder

Experience Builder

Dashboards

Story Maps

Instant Apps

- **Speed and ease** – select, configure and share within five minutes

- **Focused templates** – app templates to address specific audience needs

- **Mobile-first design** – performant on any device

- **Accessible apps** – located and supports assistive technologies

- **Customizable** – full setup to configure additional capabilities
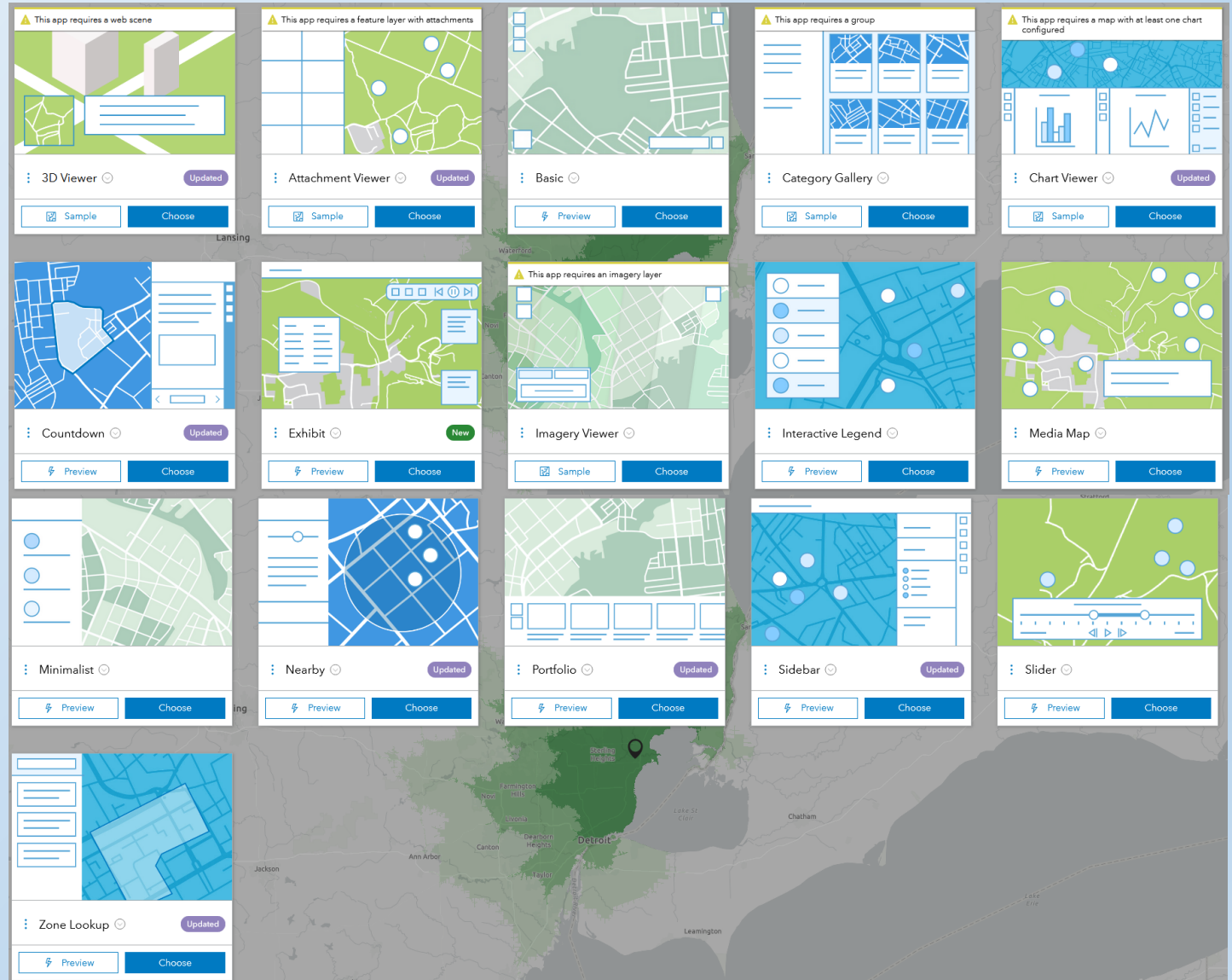
WebApp Builder
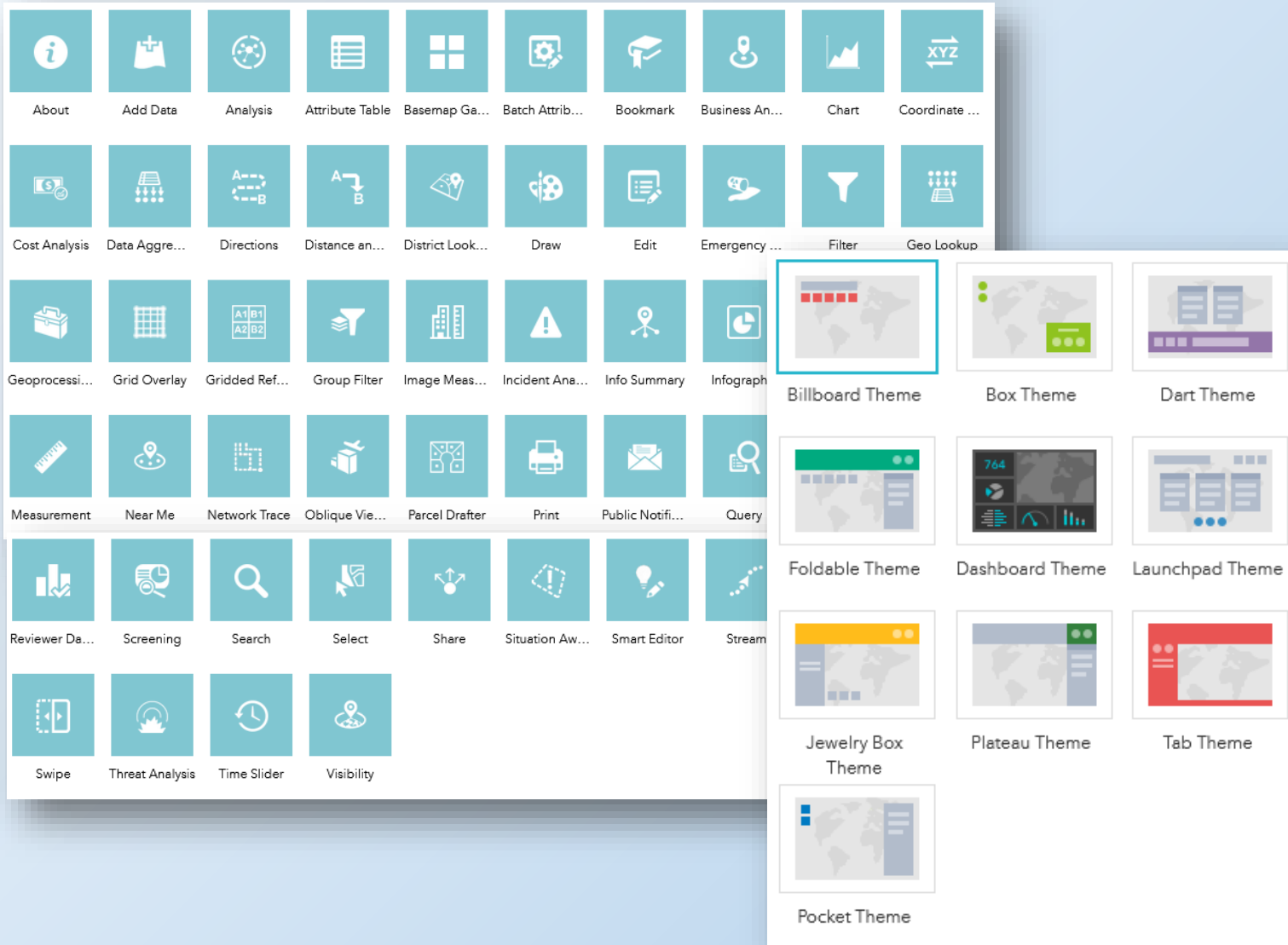
- User-friendly, flexible and full of GIS functionality

- Run on any device or browser

- **Widgets** - Over 50 out-of-the-box widgets, can build custom ones

- **Configurable Themes** – set of themes to address specific layout

- Create custom app templates

- Extensible framework with developer edition

Dashboards

- **<u>Easy to understand</u>** – visual display that presents data in an easy-to-ready format
- **<u>Ready to use</u>** – robust suite of data visualization tools like maps, lists, charts, and gauges
- **<u>Interactive</u>** – elements are linked providing dynamic results as users explore the data
- **<u>Flexible</u>** – pull in external content, integrate with other web apps, fits your data
- **<u>Configurable</u>** – adapt to specific audiences, events and situations with multiple **structure** and design options

Strategic

Strategic dashboards help executives track key performance indicators (KPIs) and make strategic decisions by evaluating performance based on their organization's goals.

Tactical

Tactical dashboards help analysts and line-of-business managers analyze historical data and visualize trends to gain deeper understanding.

Operational

Operational dashboards help operations staff understand events, projects, or assets by monitoring their status in real time.
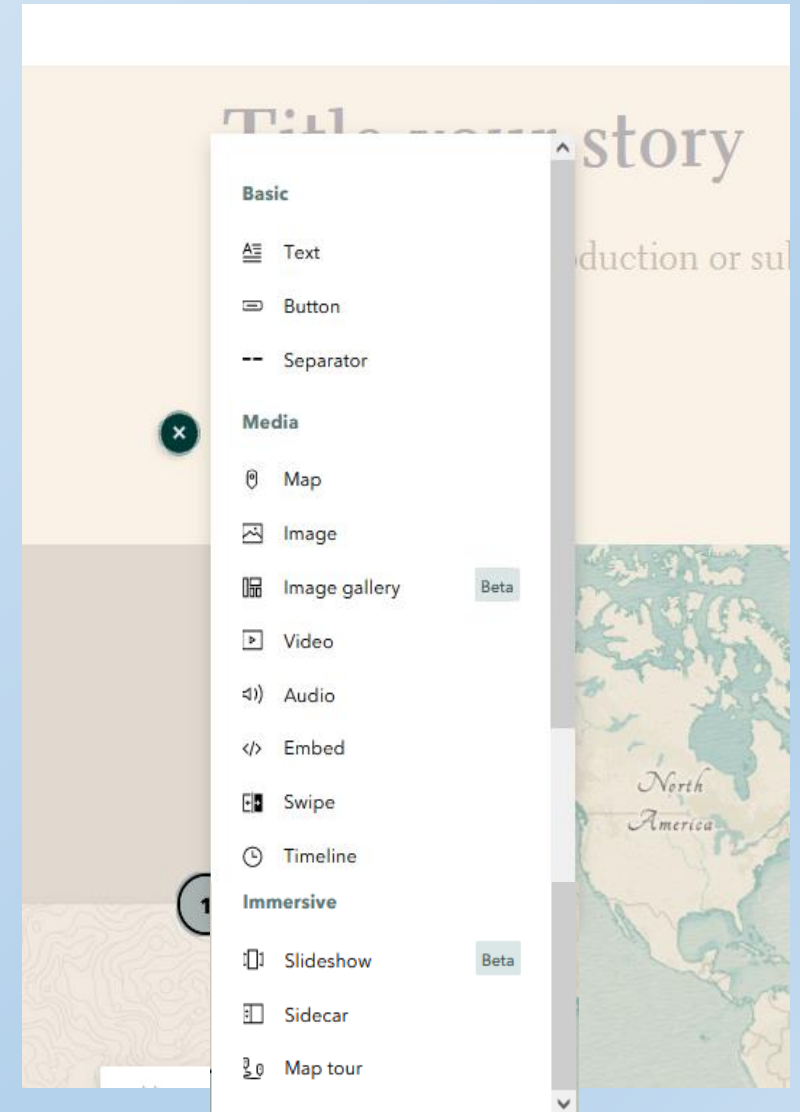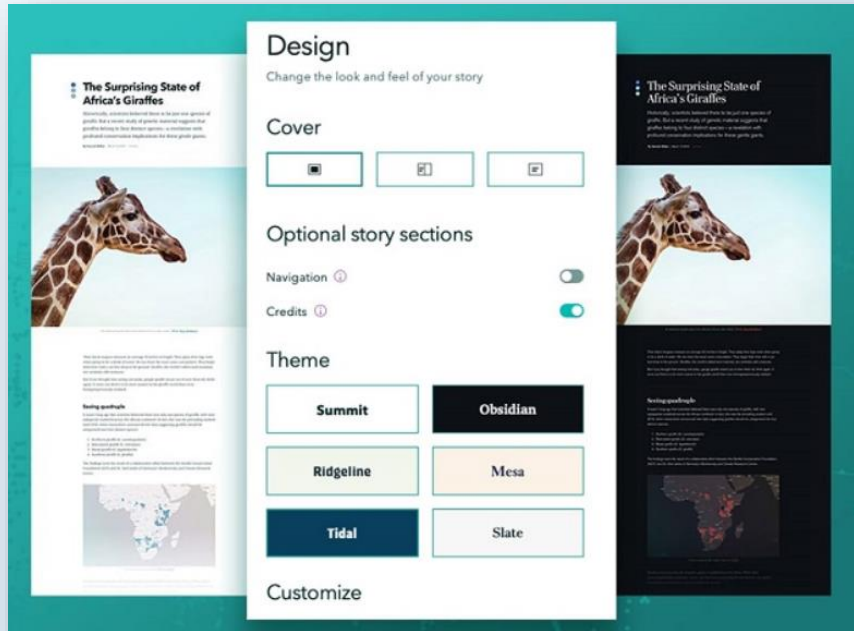
Informational

Informational dashboards help organizations inform and engage their audiences through community outreach.

StoryMaps

- Powerful **<u>digital storytelling</u>** tool

- **<u>Simple mapmaking</u>** – create express maps or use existing web maps

- Flexible and easy-to-use builder

- Stylish, modern designs or create custom template

Experience Builder

- **A platform for apps** – create, deploy and manage apps in a single lace

- **Built by you** – choose the type of apps you want to build

- **Integrated 2D and 3D** – interact with both types of content in one app

- **Modern interface** – build easily with drag-and-drop components

- **Mobile-first design** – deploy responsive, function apps to any device

- **Configurable** – customize widgets and templates to meet your needs

Resources

- https://www.esri.com/en-us/arcgis/products/app-builders/overview

- https://www.esri.com/en-us/arcgis/products/arcgis-instant-apps/overview

- https://www.esri.com/en-us/arcgis/products/arcgis-web-appbuilder/overview

- https://www.esri.com/en-us/arcgis/products/arcgis-dashboards/overview

- https://www.esri.com/en-us/arcgis/products/arcgis-storymaps/resources

- https://www.esri.com/en-us/arcgis/products/arcgis-experience-builder/overview

Thank you!

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