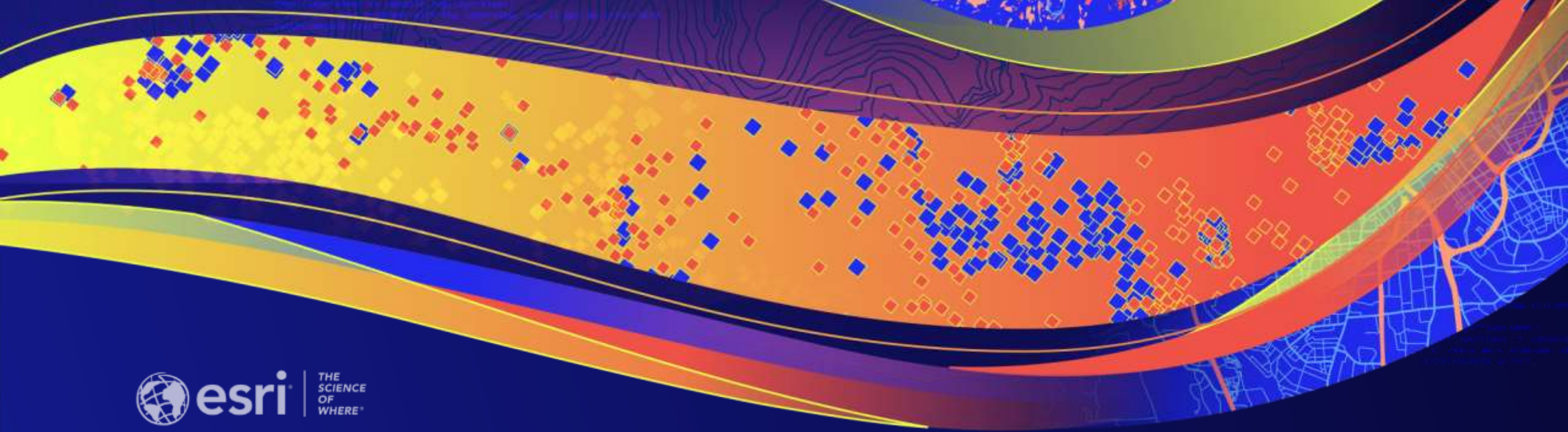


ESRI DEVELOPER SUMMIT 2023

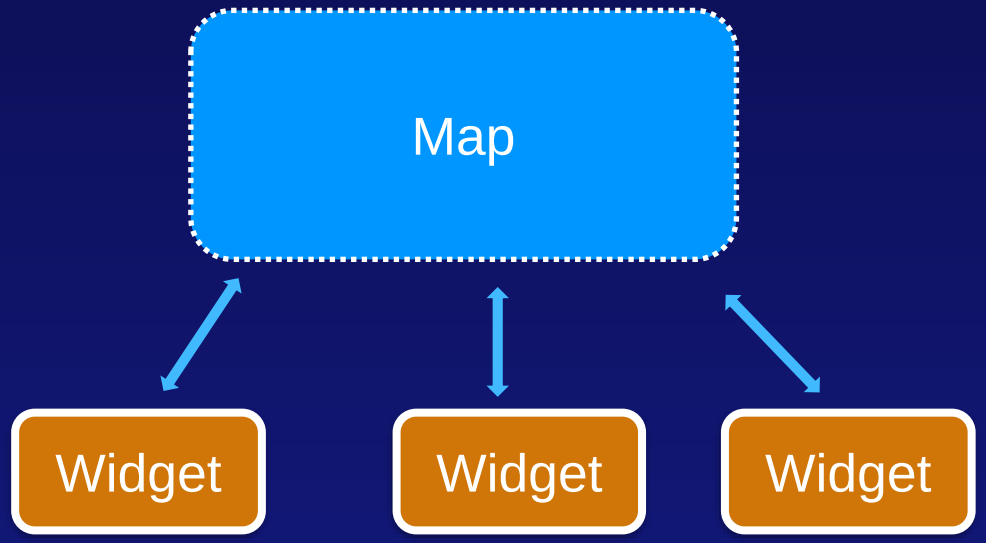
Building a Basic Widget

Agenda

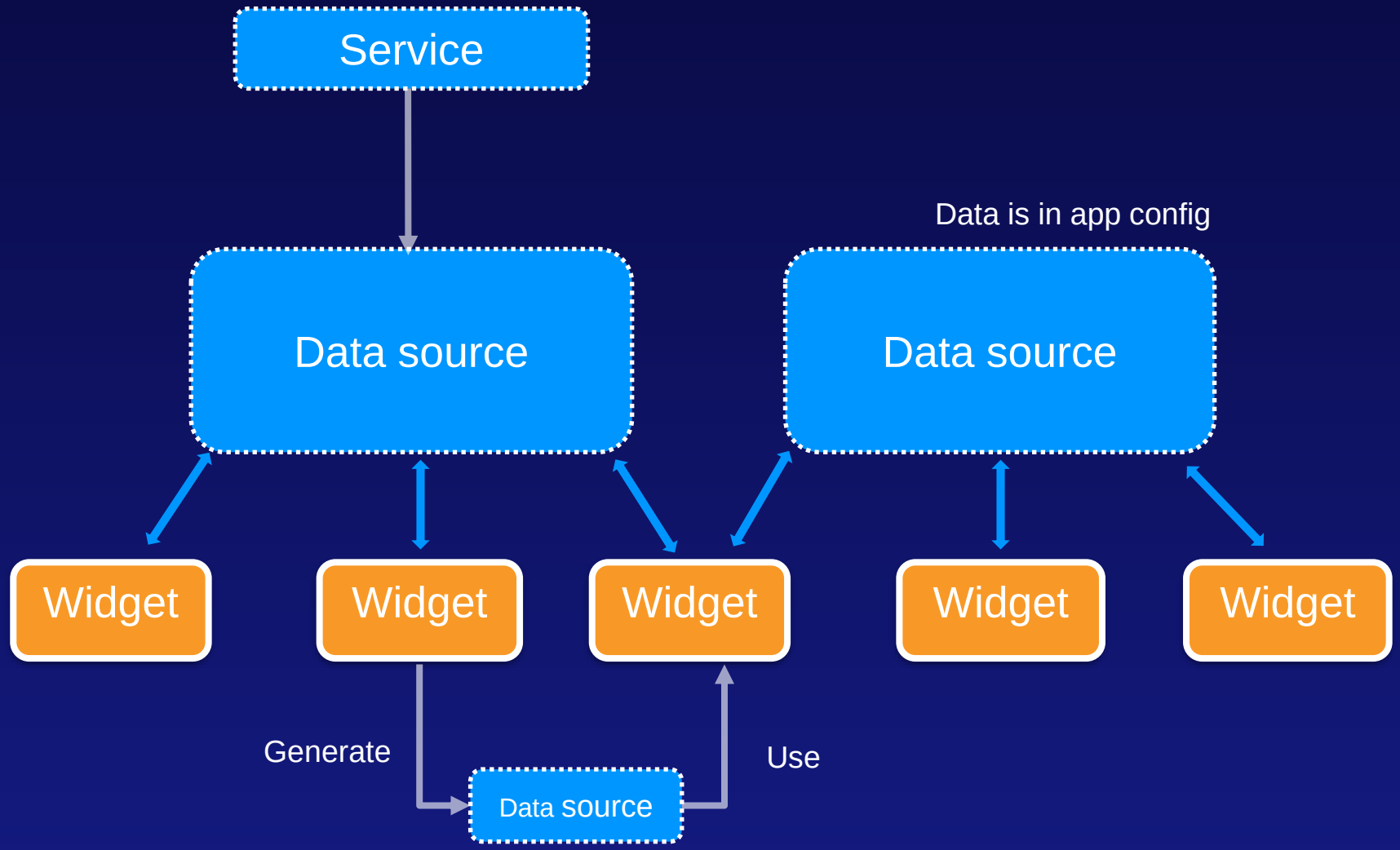
- JimuMapView wrapper class
- MapWidgetSelector class
- Coding activities

ArcGIS Web AppBuilder

- Map-centric app
- All widgets holds a map object and can communicate to the map directly



ArcGIS Experience Builder



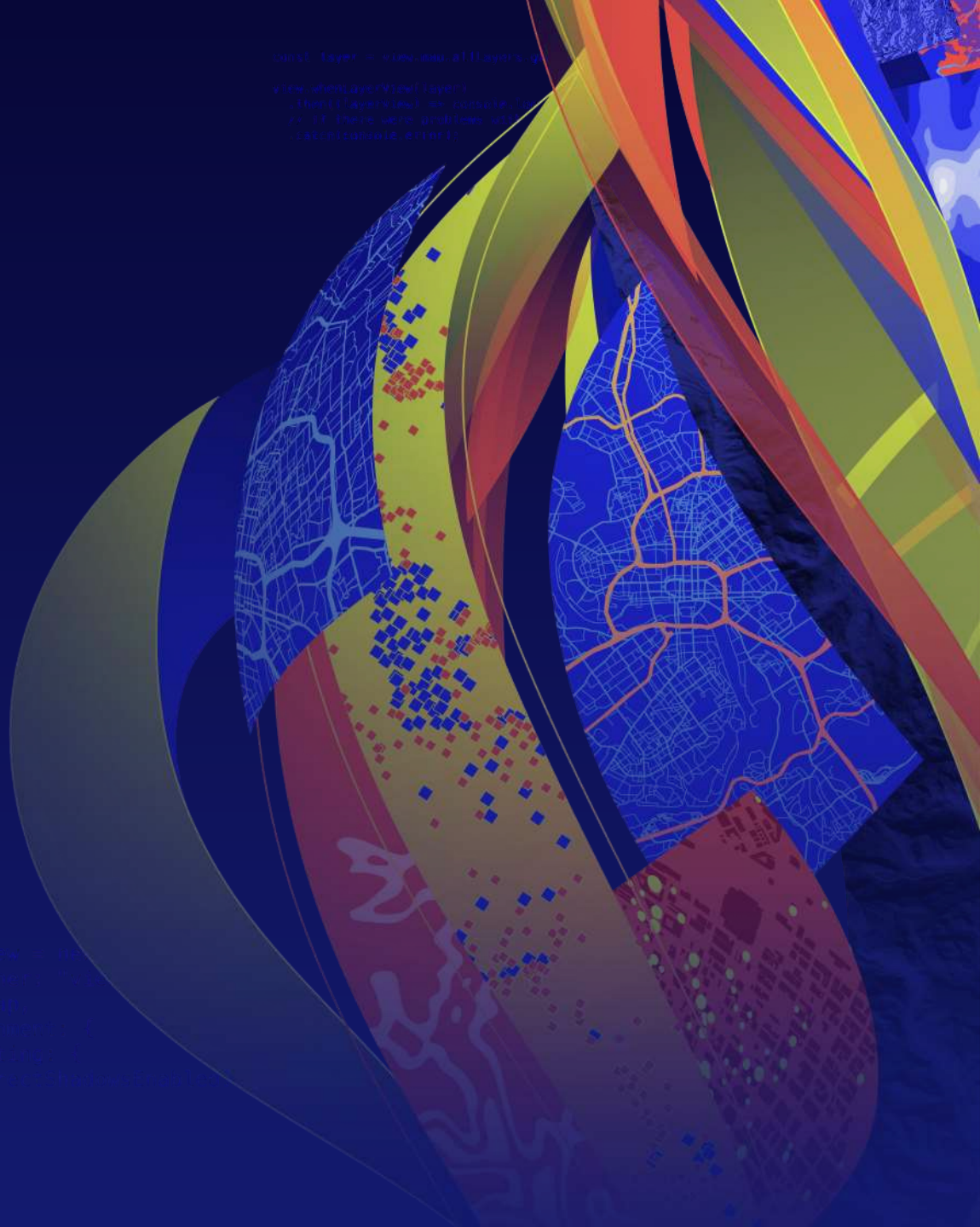
MapView/SceneView

- View concept same as ArcGIS JavaScript API
  - ExB wrapper for the "view" as JimuMapView
- JimuMapView objects as these main properties:
  - view: map/scene view object
  - dataSourceId: datasource to create the view
  - mapWidgetId: the widget that creates the objects
  - jimuLayerViews: the layer view object wrapper

```
MapViewManager.getInstance().createJimuMapView({
  mapWidgetId: this.props.id,
  view: new MapView(options),
  datasourceId: webmapDs.id,
  isActive: true
})
```

Demo

JimuMapView and MapWidgetSelector classes



Activity

Part 1 – 30 minutes

- Create “src/settings/settings.tsx”
- Add the MapWidgetSelector to allow the widget author to choose their map
- Update widget.tsx to use JimuMapViewComponent to get a reference to the map

- Bonus: use console.log() to list the layer names from your map

Activity

Part 2 – 30 minutes

- Set up the map listener to show the lat/lon and scale (like demo)
- Add “zoom level” to display
- Add an additional event listener so the lat/lon updates based on the mouse move

- Bonus: Make “zoom level” visibility configurable through the settings panel