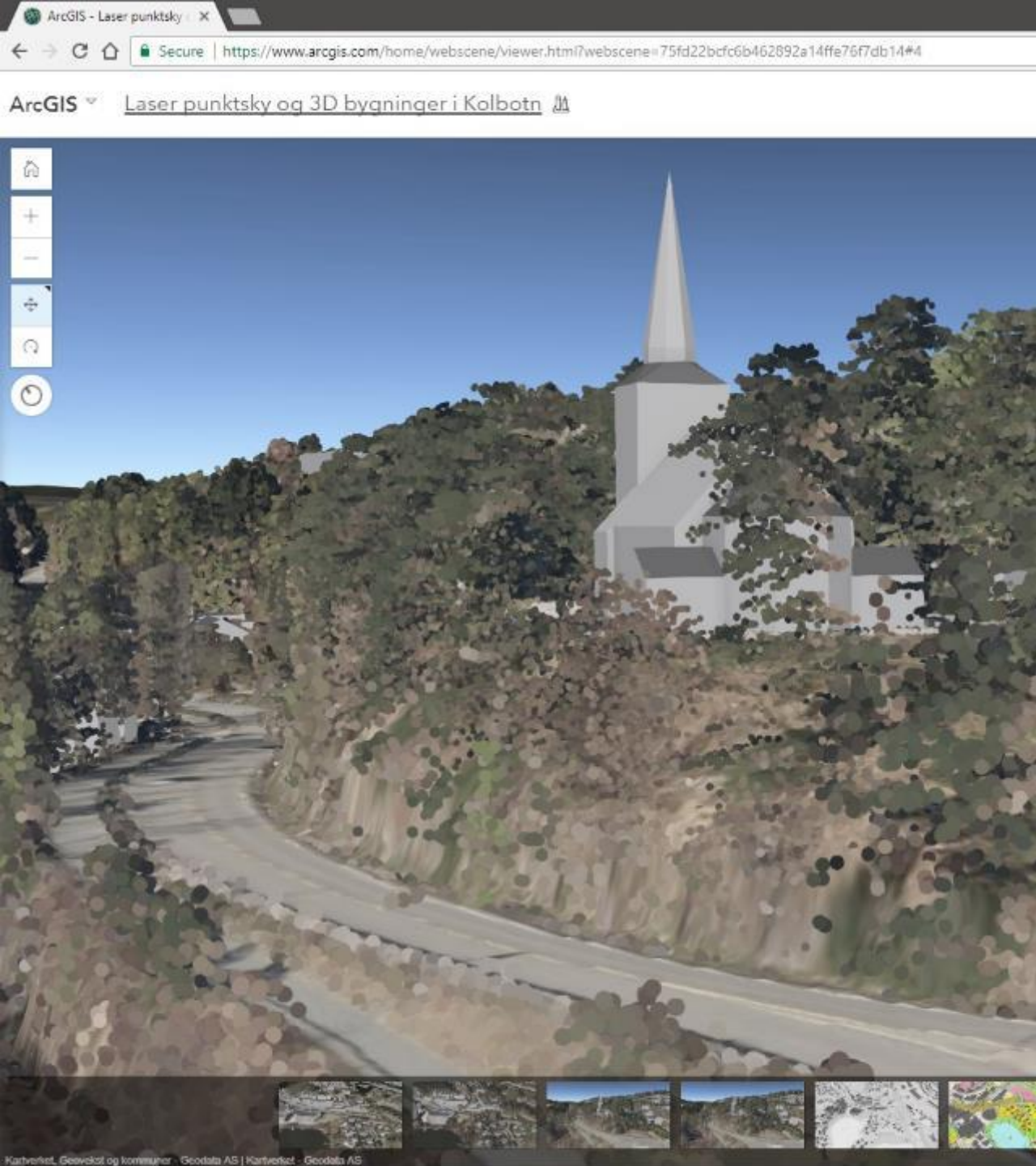


Creating and Sharing Awesome 3D Web Scenes

MADELINE SCHUEREN – SOLUTION ENGINEER

NATHAN SHEPHARD – 3D DEVELOPMENT TEAM



Agenda

Introduction To Web Scenes

Madeline Schueren | Esri

Examples and Best Practices

Nathan Shephard | Esri

Q&A

Introduction To Web Scenes

MADELINE SCHUEREN | ESRI

Core 3D Capability

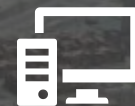
- Combine 2D and 3D in the same web GIS architecture
- Reuse dynamic services across clients
- Securely collect, manage, curate 3D data
- Conduct analysis across real-time and historical data
- Create tailored experiences for different types of users

Cross-platform

Open

Accessible

Desktop



Web



Device

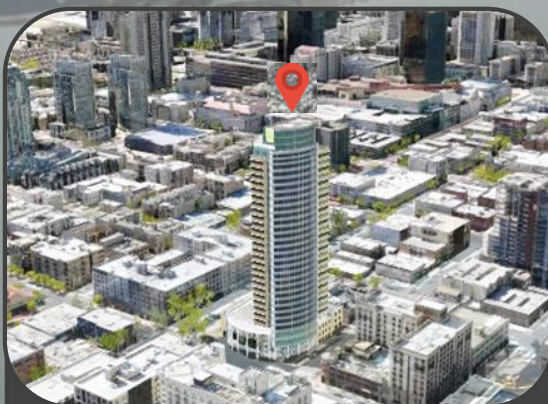


Server



Online Content
and Services





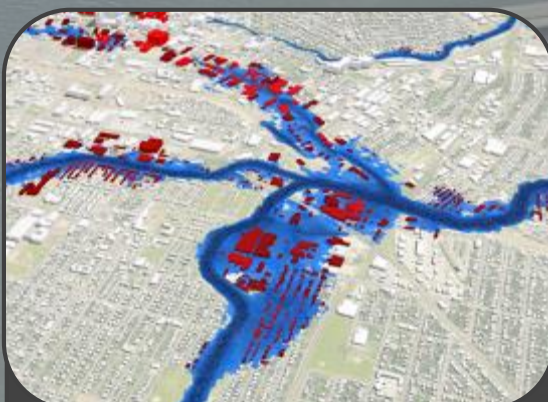
Planning, economic development, and mobility



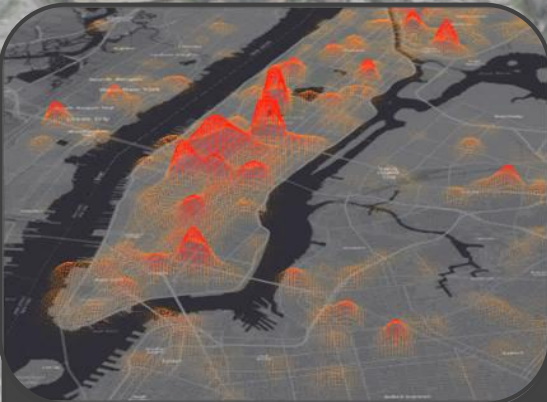
Facilities, real estate, and campuses



Utilities and underground infrastructure



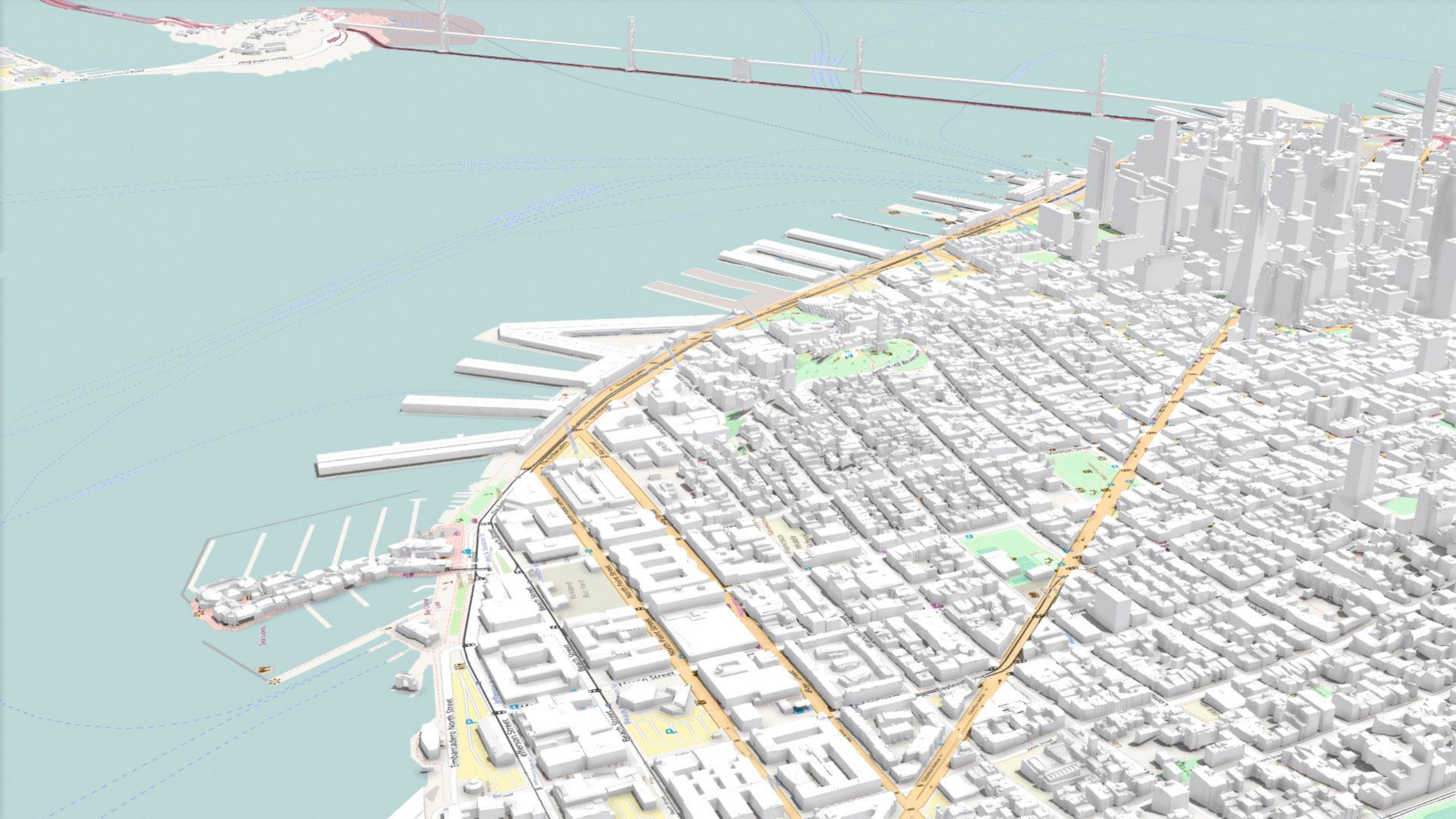
Public safety and natural risk assessment



IoT/Real Time Sensors



Cadastral Mapping





3D Features Untextured



3D Features Textured



3D Point Cloud



3D Mesh

Advancing the 3D Information Model

3D requires an expansion in the specifications and formats used to store, merge, and distribute data

- Web scenes
- 3D Scene Layers (i3S)
 - 3D Features – Buildings and Trees
 - 3D Points – POIs and Street Assets
 - Integrated Mesh – Large textured terrains
 - Point Cloud scene layers
- Raster Elevation Services (LERC)
- 2D Vector Tile Basemaps

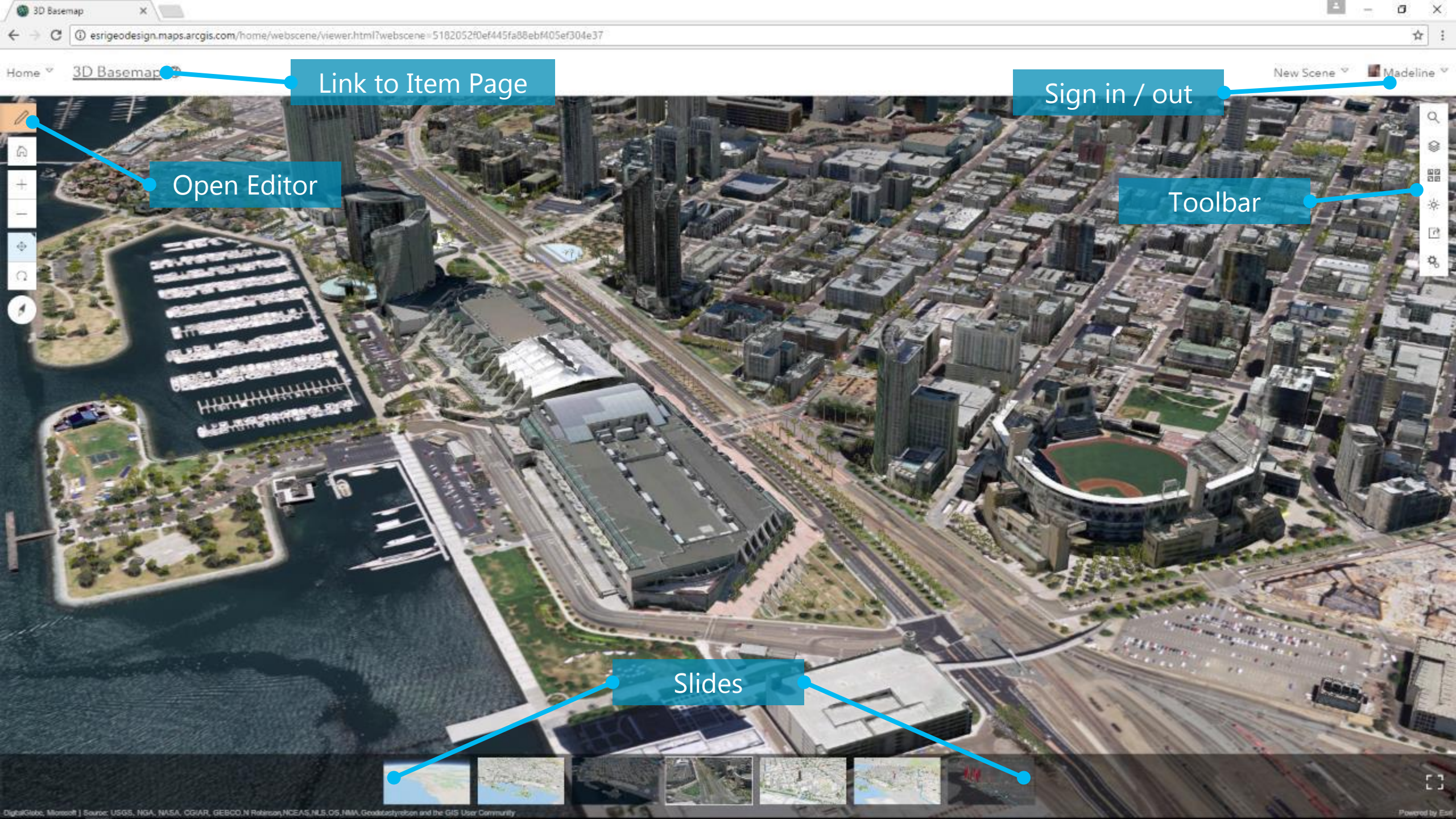


3D Features Untextured

3D Features Textured

3D Point Cloud

3D Mesh



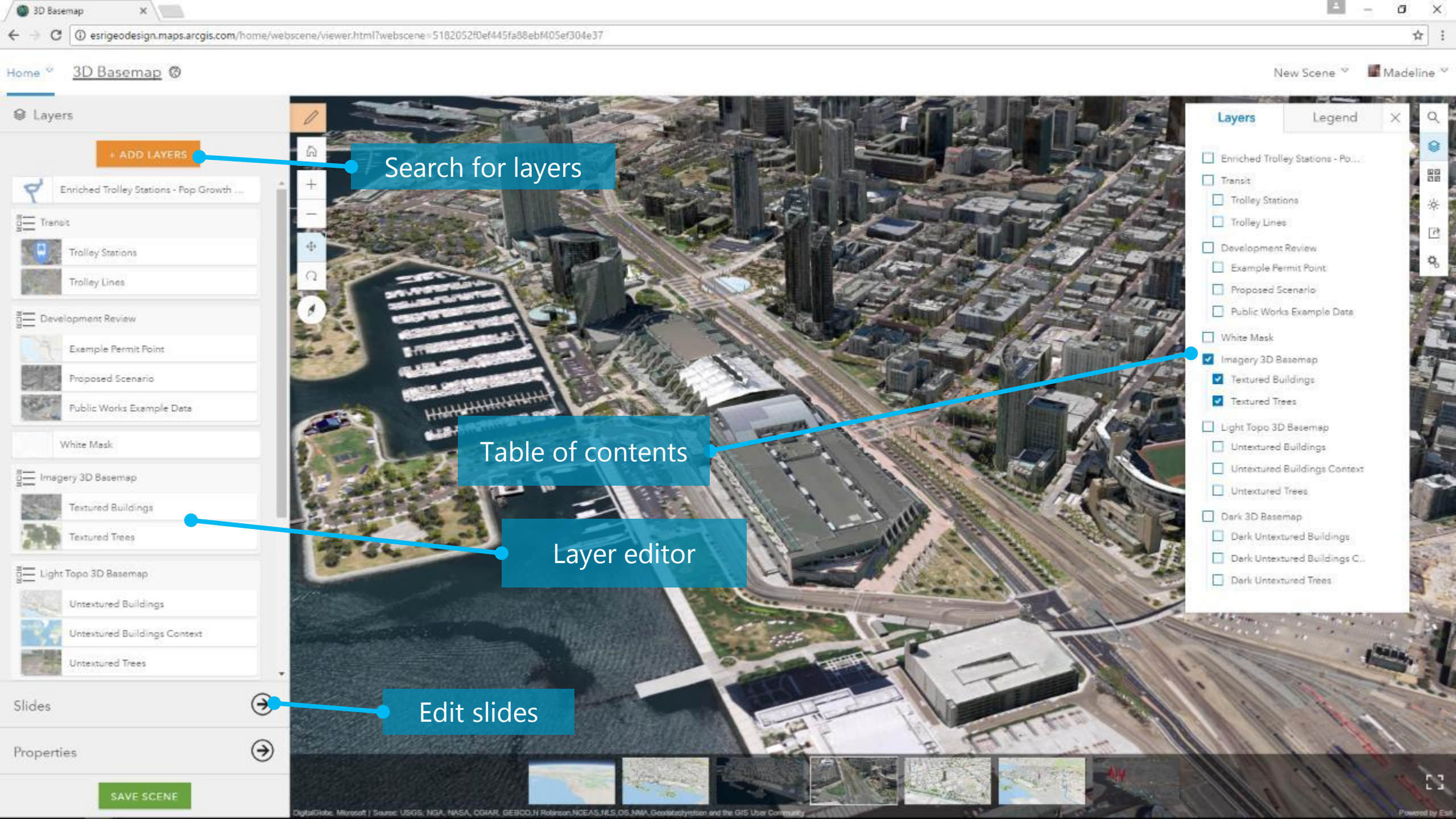
Link to Item Page

Sign in / out

Open Editor

Toolbar

Slides

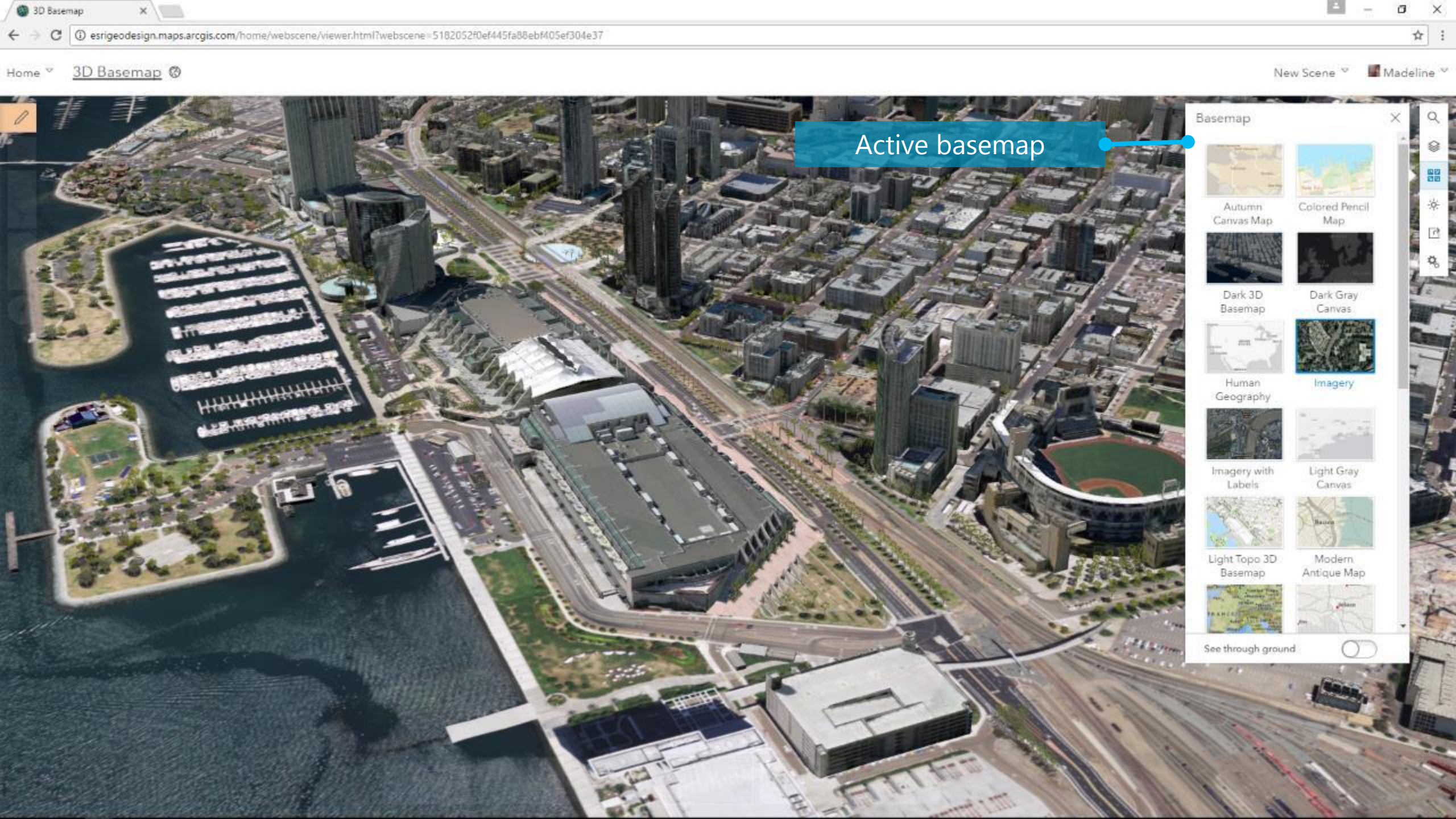


Search for layers

Table of contents

Layer editor

Edit slides



Active basemap

Basemap



Autumn
Canvas Map



Colored Pencil
Map



Dark 3D
Basemap



Dark Gray
Canvas



Human
Geography



Imagery



Imagery with
Labels



Light Gray
Canvas



Light Topo 3D
Basemap

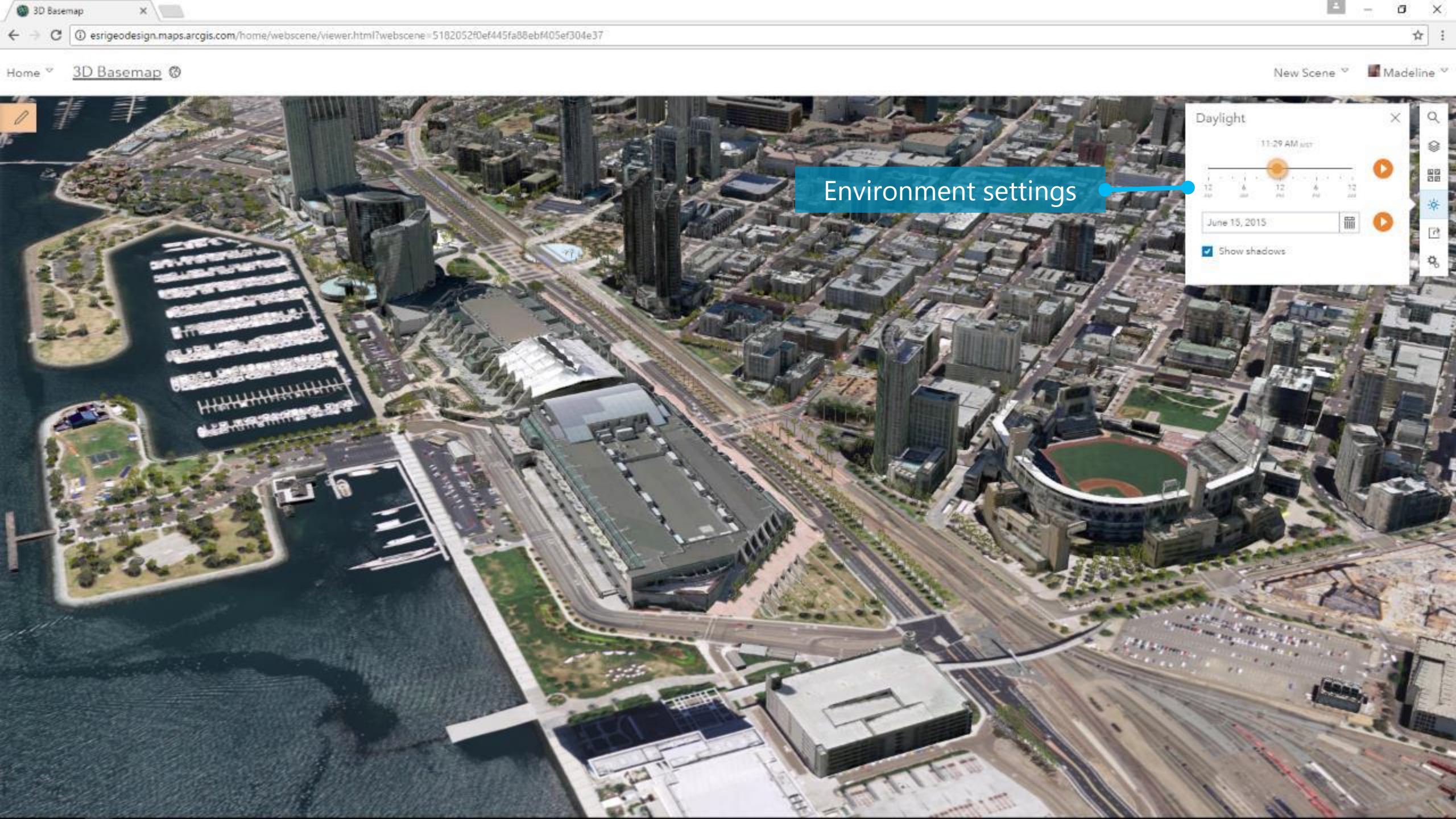


Modern
Antique Map



See through ground





Environment settings

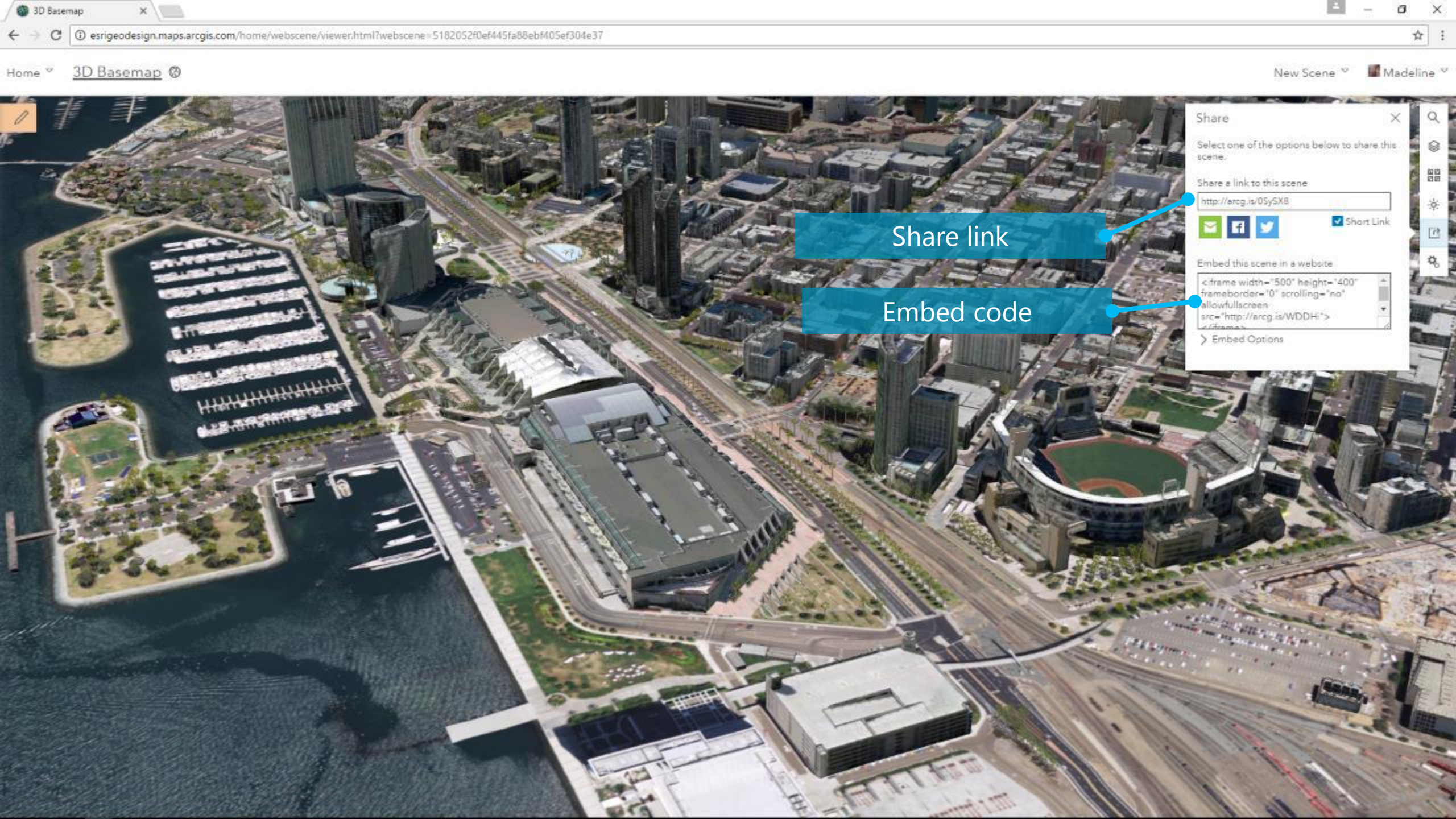
Daylight

11:29 AM just

12 6 12 6 12

June 15, 2015

☒ Show shadows

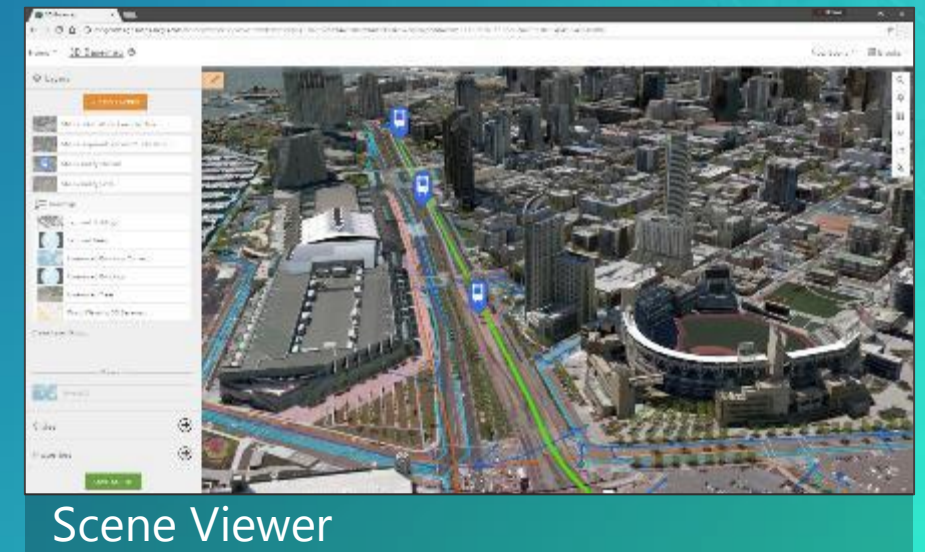
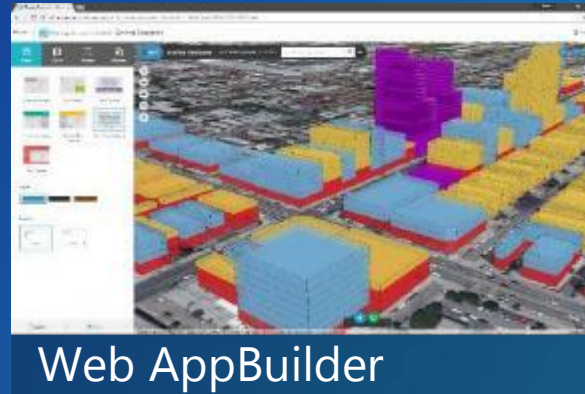


Share link

Embed code

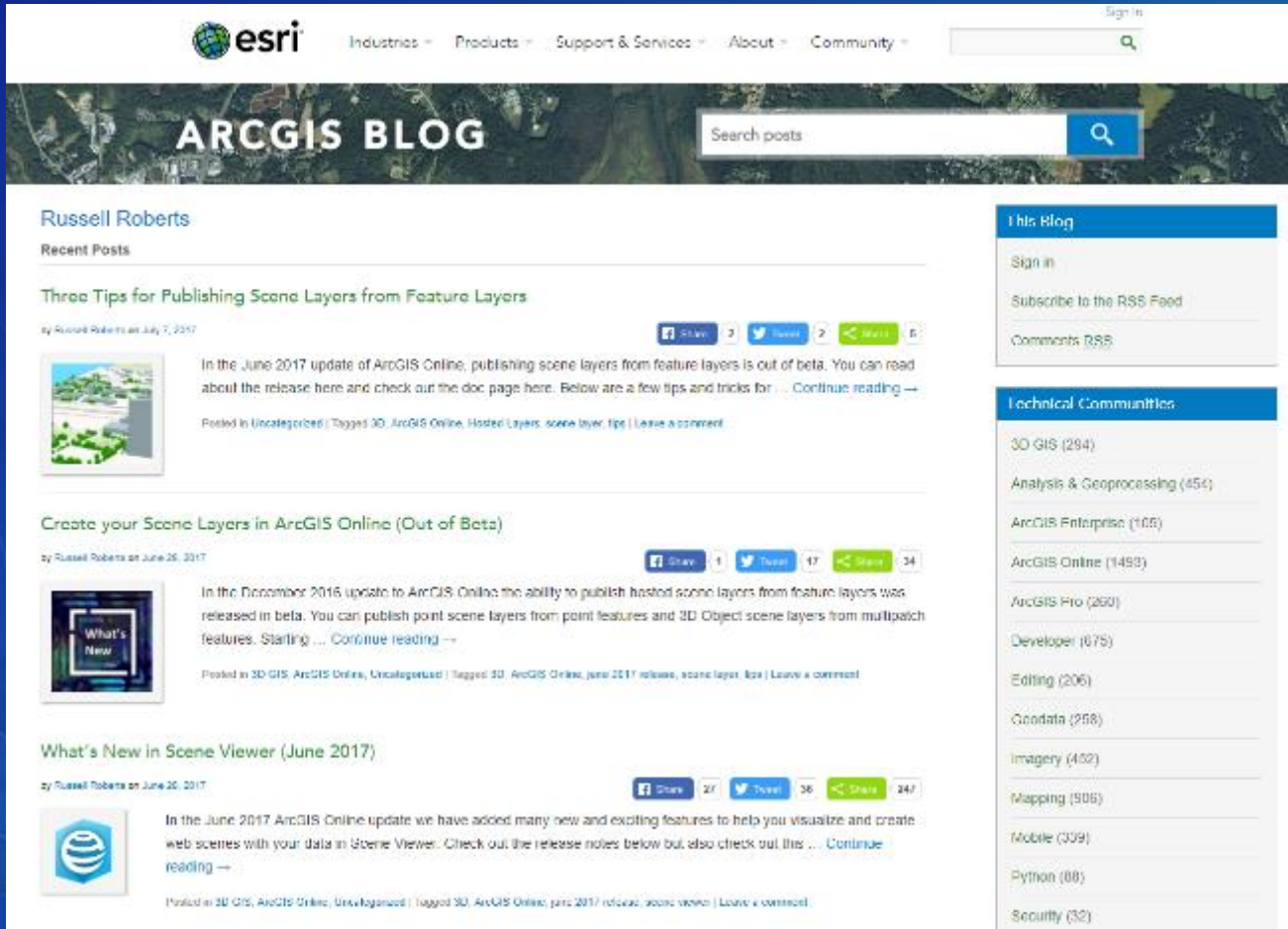
3D Web Apps

Part of Any ArcGIS Online Organization



Resources

Scene Viewer Blogs



The screenshot shows the Esri ArcGIS Blog homepage. The header includes the Esri logo, navigation links for Industries, Products, Support & Services, About, and Community, and a search bar. The main banner features the text "ARCGIS BLOG" and a search bar. The content area displays three recent posts by Russell Roberts:

- Three Tips for Publishing Scene Layers from Feature Layers**
by Russell Roberts on July 7, 2017
In the June 2017 update of ArcGIS Online, publishing scene layers from feature layers is out of beta. You can read about the release here and check out the doc page here. Below are a few tips and tricks for ... [Continue reading →](#)
Posted in Uncategorized | Tagged 3D, ArcGIS Online, Hosted Layers, scene layer, tip | Leave a comment
- Create your Scene Layers in ArcGIS Online (Out of Beta)**
by Russell Roberts on June 26, 2017
In the December 2016 update to ArcGIS Online the ability to publish hosted scene layers from feature layers was released in beta. You can publish point scene layers from point features and 3D Object scene layers from multipatch features. Starting ... [Continue reading →](#)
Posted in 3D GIS, ArcGIS Online, Uncategorized | Tagged 3D, ArcGIS Online, June 2017 release, scene layer, tip | Leave a comment
- What's New in Scene Viewer (June 2017)**
by Russell Roberts on June 26, 2017
In the June 2017 ArcGIS Online update we have added many new and exciting features to help you visualize and create web scenes with your data in Scene Viewer. Check out the release notes below but also check out this ... [Continue reading →](#)
Posted in 3D GIS, ArcGIS Online, Uncategorized | Tagged 3D, ArcGIS Online, June 2017 release, scene viewer | Leave a comment

The right sidebar contains links for "This Blog" (Sign in, Subscribe to the RSS Feed, Comments RSS) and "Technical Communities" (3D GIS (294), Analysis & Geoprocessing (454), ArcGIS Enterprise (105), ArcGIS Online (1493), ArcGIS Pro (260), Developer (675), Editing (206), Geodata (268), Imagery (432), Mapping (906), Mobile (309), Python (88), Security (32)).

Sample scenes, story maps going over what's new, sample data, and more

<http://bit.ly/SceneViewer17>