

Agenda

- 3D Indoor Routing App (Demo)
- ArcGIS & Indoor Mapping
- Content Creation
 - CAD to GIS
 - Symbology & Styling
 - Indoor Transportation Networks
 - Publishing
- Deploying Apps
 - 3D Web App (JavaScript 4.4 API)
 - 2D Mobile App (iOS Xamarin & .NET)



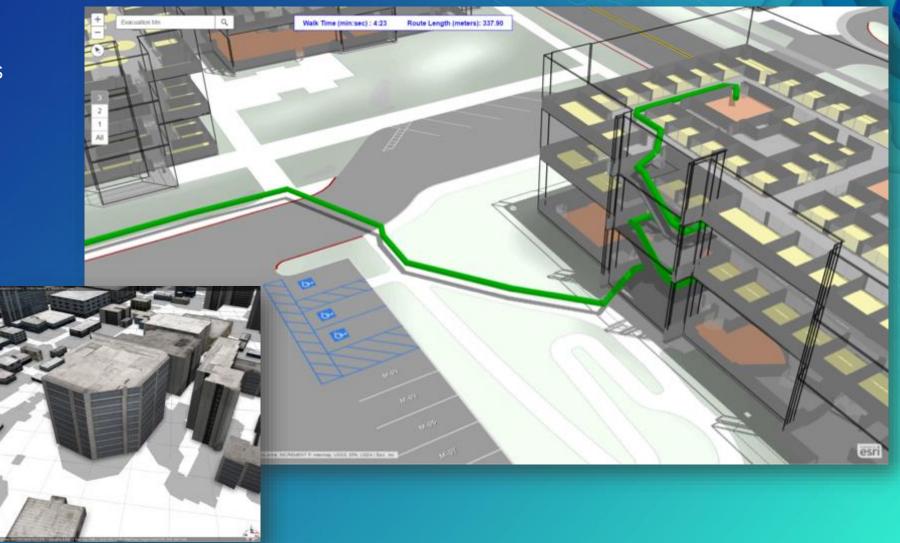
Why Indoors?

- Owner/Operator
 - Planning
 - Operations
 - Staffing
 - Safety/Security
- Guests
 - Students
 - Customers
 - Shoppers



Foundational Data

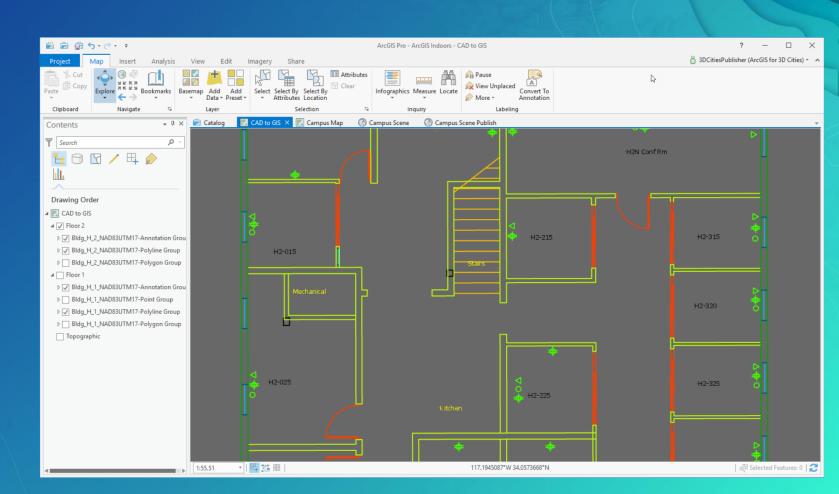
- Foundational Layers
 - Basemaps
 - Building floorplans
 - Outdoor spaces
 - Utilities
 - Transportation
- 3D
 - Facades
 - Vertical places
 - Trees





CAD to GIS Content Creation

- Need to start with good CAD
- Full spectrum of solutions
- BIM also a story
- Walls are coming down
 - Pro helps

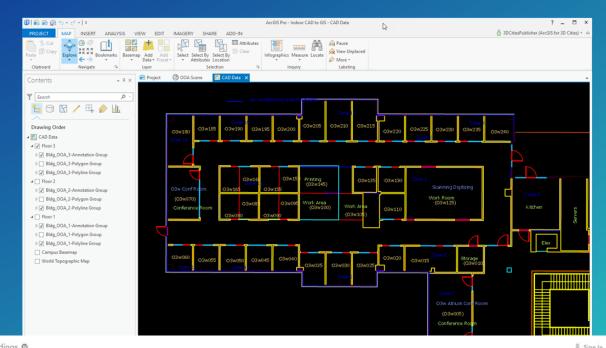


ArcGIS Indoors - CAD and BIM

How can we address some of the traditional problems?

- Attribution
- 3D
- Poor quality CAD
- Inconsistent drawings
- Those annoying swinging doors

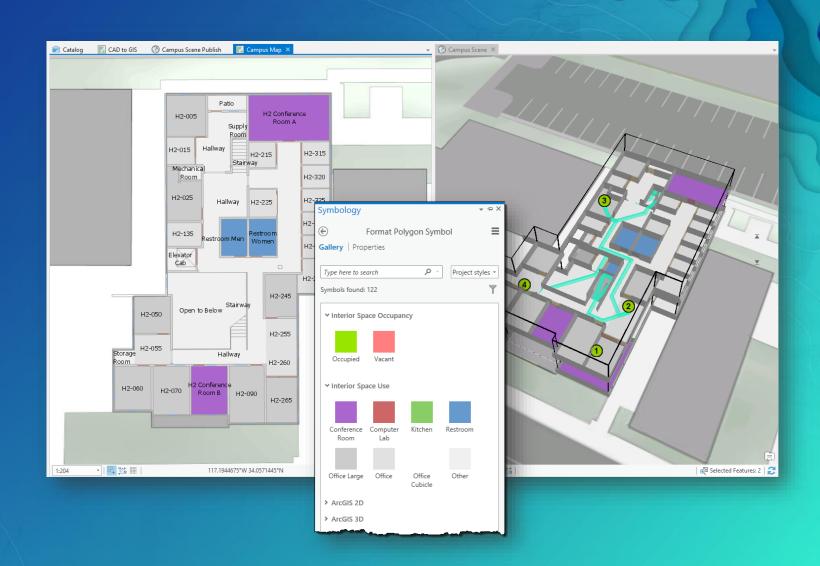
What about BIM?





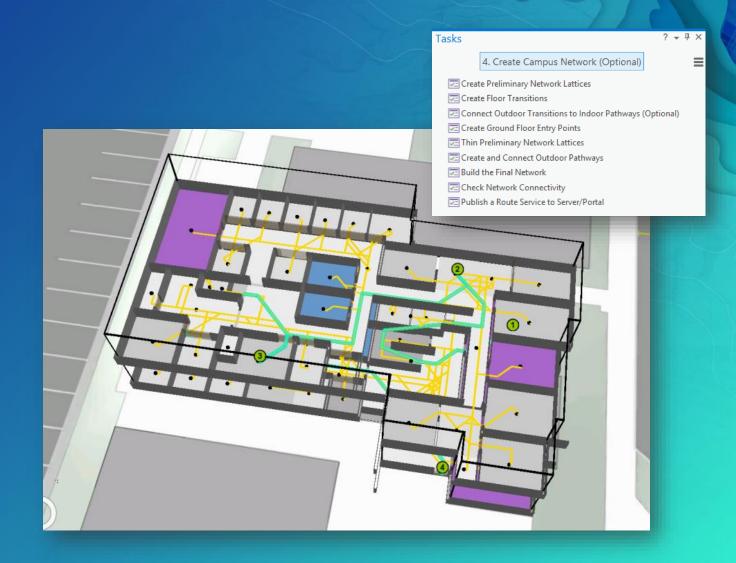
Symbology & Styling

- ArcGIS Pro Project
 - Interior space styles
 - Façade wireframe RPK
- 2D and 3D floorplans
- Provided sample data
 - Esri Campus Building H

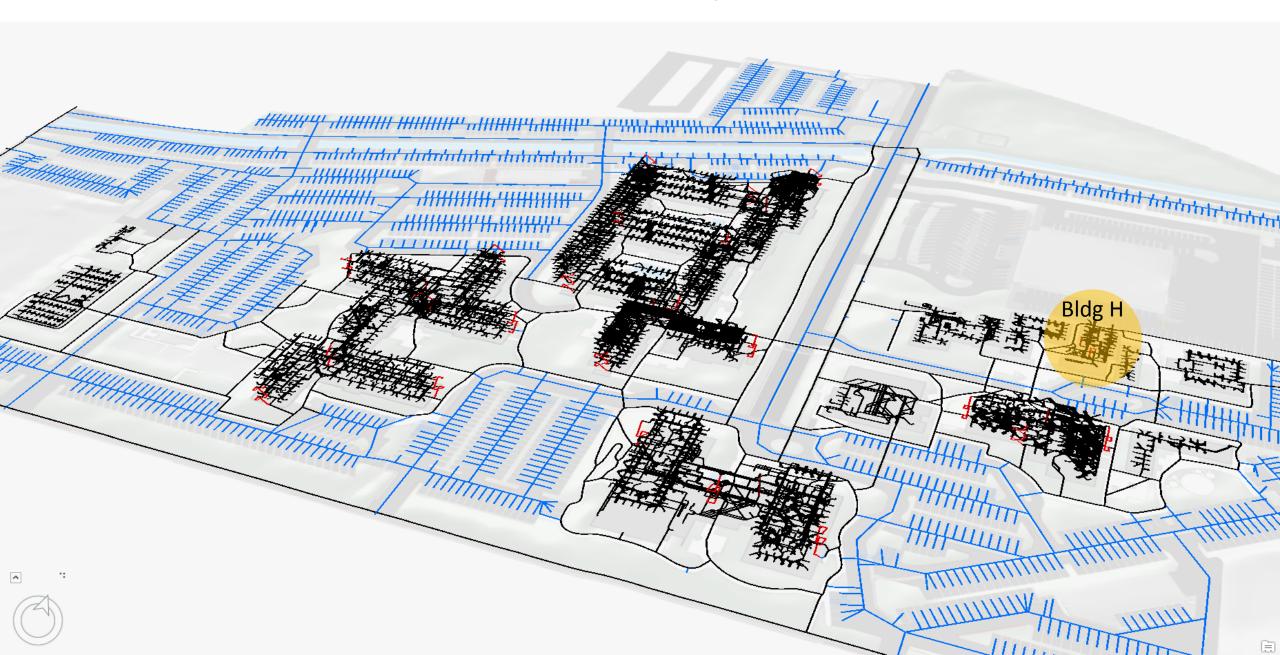


Indoor Transportation Networks

- Lattice-based indoor network
 - Pathways (hallway centerlines)
 - Transitions (stairs, elevators)
- Semi-automated creation
- Inputs:
 - Building (poly)
 - Floor (poly)
 - Space (poly)
 - Space (point)
 - Floorplan Lines (line)



Full Esri Redlands Campus Network

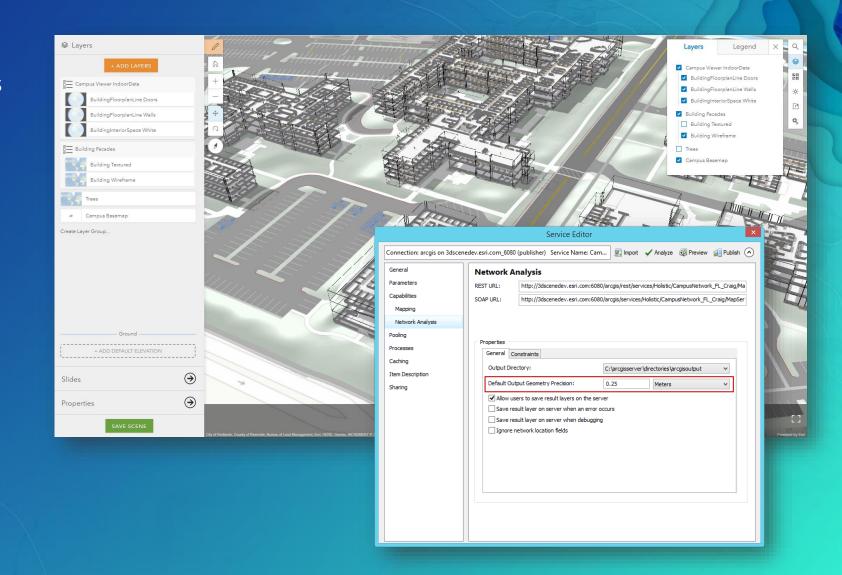


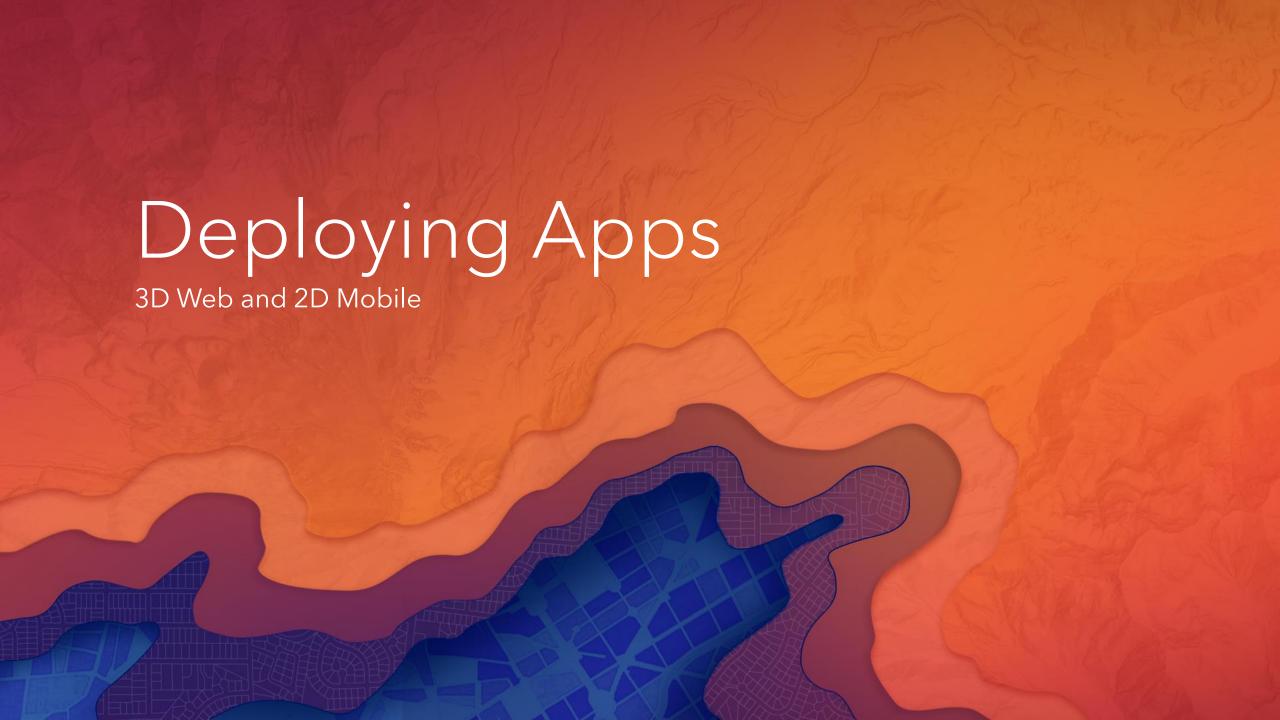
OD Cost Matrix – Esri Team Fragmentation



Publishing

- Publish Campus Services
 - Indoor 3D layers
 - Spaces, walls, doors
 - Façade 3D layers
 - Textured, wireframe
 - Locator point layers
 - Spaces, people
 - Symbology poly layers
 - Space use, occupancy
 - Route service
- Configure Web Scene

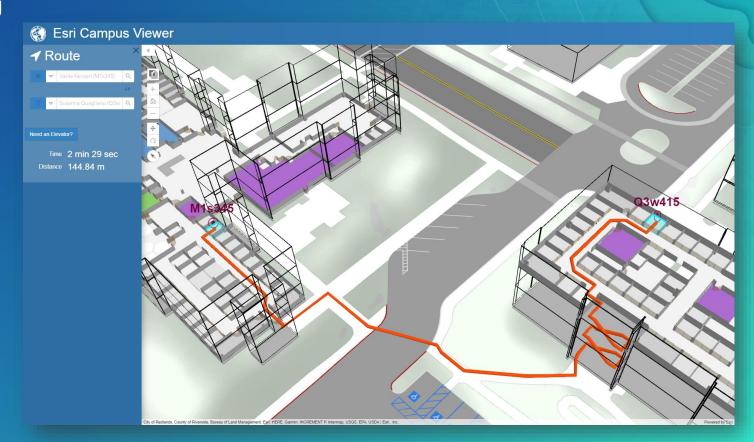




3D Web Routing App JavaScript 4.4 API

• 3D web app using the latest JavaScript 4.4 API

- Incorporates scene layer filtering
- Works as a Finder or Router
- Customizable
- Configure Web Services





Esri UC 2017 3D Web App

Locations + Schedules



2D Mobile Routing App Xamarin iOS

- Configurable
- Open Source
- Same data as 3D app
- Example apps: https://developers.arcgis.com/example-apps/



Companion App Preview

Built with Runtime SDK 100.1 for iOS

Resources ArcGIS Indoors

- Download the ArcGIS Indoors Tech Preview <u>bit.ly/indoors2017uc</u>
- Download the Xamarin Indoor Routing App https://github.com/Esri/indoor-routing-xamarin
- ArcGIS Indoors YouTube Playlist
- Stop by and see us at the 3D Island!



Upcoming Facilities / Indoor GIS Sessions @ UC

Facilities and Indoor GIS Demo Theater Presentations

Wednesday, July 12

Wednesday, July 12		
11:30 – 12:15 PM	Facilities + Indoor GIS: Envisioning	SDCC, Esri Showcase: Envisioning Center 2
4:30 – 5:15 PM	BIM and GIS: An Introduction	SDCC, Demo Theater 13 – 3D GIS
Thursday, July 13		
9:30 – 10:15 AM	3D Enable Your Campus and Workplace	SDCC, Demo Theater 13 – 3D GIS
Moderated Paper Presentations		
Thursday, July 13		
8:30 – 9:45 AM	Experimenting with Advanced Technology for Facilities Management	SDCC, Room 30 B
10:15 – 11:30 AM	Universities Leveraging GIS for Facilities Management	SDCC, Room 30 B
1:30 – 2:45 PM	Managing Your Facility's Customer Experience with GIS	SDCC, Room 30 B
3:15 – 4:30 PM	Enterprise Facility Management with GIS	SDCC, Room 30 B
3:15 – 4:30 PM	Interior Spaces and Facility Management	SDCC, Room 26 A

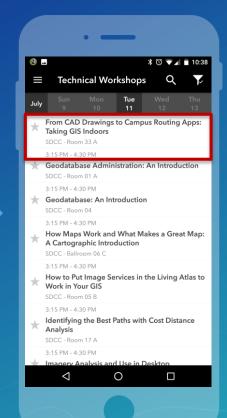


Please Take Our Survey on the Esri Events App!

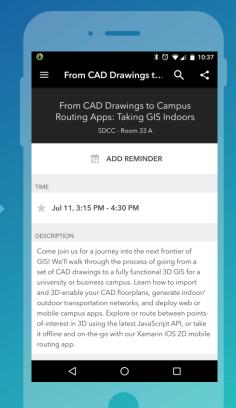
Download the Esri Events app and find your event



Select the session you attended



Scroll down to find the survey



Complete Answers and Select "Submit"

