Bring Your Facilities to Life with GIS and 3D Visualizations

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Bring Your Facilities to Life with GIS and 3D Visualizations

Agenda

Omni 4th Floor Web Scene
- CAD to GIS
- CityEngine Project

Esri Campus Web Scene
- Analysis
- Development

Multiple Floors + Landscape

Single Floor
Omni 4th Floor
Web Scene: CAD † GIS
CAD ‡ GIS ‡ 3D Cities Information Model
Omni 4th Floor

Import CAD
Bring Your Facilities to Life with GIS and 3D Visualizations

CAD ➔ GIS ➔ 3D Cities Information Model
Omni 4th Floor

Import CAD
Georeference
CAD †  GIS †  3D Cities Information Model

Omni 4th Floor

Import CAD
Georeference
Build Polygons
CAD † GIS † 3D Cities Information Model
Omni 4th Floor

Import CAD
Georeference
Build Polygons
Attribute Spaces

Meeting Spaces
Hallways
Restrooms
CAD ✴ GIS ✴ 3D Cities Information Model

Omni 4th Floor

Import CAD
Georeference
Build Polygons
Attribute Spaces
Attribute Structure
CAD ★ GIS ★ 3D Cities Information Model

Omni 4th Floor

- Import CAD
- Georeference
- Build Polygons
- Attribute Spaces
- Attribute Structure

Doors
Walls
CAD ‡ GIS ‡ 3D Cities Information Model

Omni 4th Floor

Import CAD
Georeference
Build Polygons
Attribute Spaces
Attribute Structure
Stairs
CAD † GIS † 3D Cities Information Model

Omni 4th Floor

Import CAD
Georeference
Build Polygons
Attribute Spaces
Attribute Structure
Stairs
CAD † GIS † 3D Cities Information Model

Omni 4th Floor

- Import CAD
- Georeference
- Build Polygons
- Attribute Spaces
- Attribute Structure
- Stairs
- Furniture
CAD † GIS † 3D Cities Information Model

Omni 4th Floor

Import CAD
Georeference
Build Polygons
Attribute Spaces
Attribute Structure
Stairs
Furniture
Chairs & Tables
CAD ‣ GIS ‣ 3D Cities Information Model
Omni 4th Floor

Import CAD
Georeference
Build Polygons
Attribute Spaces
Attribute Structure
Stairs
Furniture
Chairs & Tables
Import CAD
Georeference
Build Polygons
Attribute Spaces
Attribute Structure
Stairs
Furniture
Chairs & Tables
CAD ‡ GIS ‡ 3D Cities Information Model

Omni 4th Floor

Import CAD
Georeference
Build Polygons
Attribute Spaces
Attribute Structure
Stairs
Furniture
Booths
CAD † GIS † 3D Cities Information Model

Omni 4th Floor

Import CAD
Georeference
Build Polygons
Attribute Spaces
Attribute Structure
Stairs
Furniture
Booths
CAD ‣ GIS ‣ 3D Cities Information Model

Common Issues

- CAD Topology
  - Line Gap
- Curves
  - Door Closure
Campus Web Scene
Demo
No CAD?
Floorplans from Scanned Maps
3D Resources

- Campus CityEngine Project (Project, CE Rules, Sample Data)

- 3D Cities Base Layer Workflows (ArcGIS for Professionals)
Esri Campus CityEngine Project

bit.ly/esri3dcampus
Thank you...

• Please fill out the session survey:

Session ID: 1747
Offering ID: 2620

Paper – pick up and put in drop box