What’s Possible with Esri Autodesk Integration

Don Kuehne, Esri Product Manager AEC
Karen Hodge, Esri Lead Developer BIM/CAD/AEC
What’s Possible with Esri and Autodesk Integration

In this session, you will get a broad understanding of the *Esri technology that exists for integrating with Autodesk products and data.*

This session will address working with AutoCAD and Revit files in ArcGIS desktop, as well as working with ArcGIS content in AutoCAD, Civil 3D, and Revit.

You will be introduced to cross platform workflows for connecting web, desktop and mobile workforces involving Esri and Autodesk technologies.
Esri-Autodesk Integration: Universal Approach to Geospatial Information
Partnering to Bring Together BIM & GIS

Make Anything with The Science of Where
Esri-Autodesk Integration : Bridges to Connect Us
AEC Integration Patterns:...

File Exchange with disconnected stakeholders

ArcGIS Desktop

GIS Structured AEC data
(MSC, Schema, Standards..)

Utility Network
Parcel Fabric
ArcGIS Indoors
ArcGIS Urban
R&H...

Design Software Plug-in

Design Files

RVT

IFC

I-Model

DGN

DWG

DWG+

Services

Desktops

Browsers

Devices

WebGIS
Starting Simple: CAD in GIS

- You can add CAD drawings into your maps/scenes
- Unstructured, but you can still do things
- Things you may have to do: PRJ, Georef
- What's missing... AEC objects, symbols,
- Can't publish directly, can't edit ....
- Migrating the data
Adding CAD Data in ArcGIS Pro
Adding CAD Data in ArcGIS Pro
Revit in ArcGIS Pro
Adding REVIT Data in ArcGIS Pro

• REVIT Reader
Adding REVIT Data in ArcGIS Pro

Default Behavior

REVIT File

Direct Read
Map Layers

WALLS
ROOFS
WINDOWS
DOORS
FLOORS
<CATAGORIES>

...
Revit Sourced Content across the ArcGIS Platform
EXPORT TO CAD
Create and Append to CAD Files
EXPORT TO CAD
Create and Append to CAD Files

ArcGIS data in AutoCAD files (MSC)
- Feature Classes
- Attributes
- Coordinate System
- Better than Shapefiles…
ArcGIS for AutoCAD
Esri Plug-in to AutoCAD
Adding CAD Data in ArcGIS Pro

- CAD Reader

CAD File
(Civil 3D)
Adding CAD Data in ArcGIS Pro

**Default Behavior**

- **CAD File** (Civil 3D)

  - Points
  - Polylines
  - Polygons
  - Annotation
  - Multipatch
  - Rooms (MSC)
  - Walls (MSC)
  - Surveypoint
  - Alignment
  - ...
AEC Integration Patterns...

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Desksops
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Services
Presentation Title
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