ArcGIS for AutoCAD:
Plugging CAD Users into the ArcGIS System

Don Kuehne
Esri GIS / CAD Interoperability
CAD in GIS, and GIS in CAD

- Add CAD drawings to maps
- Use CAD With Geoprocessing
- Migrate Entities/Features to Geodatabases

CAD in ArcGIS Desktop

ArcGIS for AutoCAD
- Access maps and information for context
- Generate ArcGIS Data
- Edit GIS Features in CAD
WARNING:
ArcGIS for AutoCAD, easier than you think…
What is ArcGIS for AutoCAD?

- Edits GIS Data...
- Uses ArcGIS Services...
Who is it for?

...largest source of GIS data

...largest group of potential new GIS contributors
ArcGIS

A Complete System for Geographic Information

- Discover
- Create
- Manage
- Visualize
- Analyze
- Collaborate

Cloud

Enterprise

Local
Editing ArcGIS Data

Just use AutoCAD...
GIS / CAD Use Patterns

- Create CAD files with ArcMap
- Use ArcGIS Services in *ArcGIS for AutoCAD*
- Edit ArcGIS Data in *ArcGIS for AutoCAD*
- Use CAD Drawings in ArcMap

…Pre-view of ArcGIS for AutoCAD 300

- *Extracting Features from GIS Services*
- *Feature Services as a External Reference*
- *Editing Enterprise GIS Data within AutoCAD*
  - *Short /Long Transactions*
ArcGIS Creates CAD Files

Export to CAD
ArcMap Creates Smart AutoCAD Files

Drawings with Feature Classes

ArcGIS Desktop

Geodatabase

AutoCAD Drawings with Feature Classes

CAD Files

ArcGIS for AutoCAD
Esri Maps In AutoCAD for Design Context
Maps from the Cloud
ArcGIS for AutoCAD
Accessing Maps from the Cloud
Authoritative Maps as Design Constraints

Using Your GIS Maps
Publishing Your Maps
Within the Enterprise

ArcGIS Desktop
Create Map Document

Geodatabase

ArcGIS Server

Publish to ArcGIS Server

Share Link

Map Service

Search for Content

ArcGIS Online

CAD Files

ArcGIS for AutoCAD
Create ArcGIS Data in AutoCAD

GIS Features in .DWG Files
Creating GIS-Ready Drawings
Attributed Feature Classes Inside AutoCAD Drawings

ArcGIS for AutoCAD
esri
Using CAD Drawings in ArcGIS

ArcGIS Uses CAD Files without Conversion
Using GIS-Ready Drawings in ArcMap

CAD Datasets

ArcGIS Desktop

Geodatabase

Drawings with Feature Classes

CAD Files

ArcGIS for AutoCAD
Filtering, Interpretation, Translation, and Conversion

- Repositioning data
- Append to existing Geodatabase
- Merge with other CAD layers

- Filtering Content
- CAD text inside polygons
- CAD text near lines
- Line segments to polygons
ArcGIS for AutoCAD 300
Incremental technology, revolutionary functionality

- Feature Services
  - Editing Enterprise Geodatabases
  - ArcGIS Data as an External Reference
- Image Services
- Feature Extraction
  - Map Service
  - Feature Service
- Localization
- New Table of Contents User Interface
New ArcGIS Services and Capabilities

- Discover
- Create
- Manage
- Visualize
- Analyze
- Collaborate

ArcGIS for AutoCAD

MAP  FEATURE  IMAGE
ArcGIS for AutoCAD 300

Preview Demo

- GIS Features as *External Reference*
- GIS *Data Extraction* from ArcGIS Services
- Direct Geodatabase *Editing!*
Spatially Orienting a Drawing

Feature Service as External Reference
Map Service Feature Extraction
GuildfordHydro

Hydrology and Survey Control Info
Web Map by dunk (last modified: July 7, 2011)
(0 ratings, 4 views)

Facebook Twitter

Description

Access and Use Constraints

Map Contents
- guildfordhydro:
  http://Truth/arcgis/rest/services/GuildfordHydro/MapServer
- Topographic:
  http://services.arcgisonline.com/ArcGIS/rest/services/World_Topo_Map/MapServer

Shared with
The item is not shared.

Tags
Survey Control NC

Comments (0)
ArcGIS Geodatabase Editing in AutoCAD

New Feature Services in AutoCAD
UC2011

AFA300 Map UC
Web Map by dunk (last modified: July 7, 2011)
(0 ratings, 16 views)

Description
Enterprise Editing Map for City Workers

Access and Use Constraints

Map Contents
RiversideWater:
http://truth/arcgis/rest/services/RiversideWater/MapServer
RiversideSoils:
http://truth/arcgis/rest/services/RiversideSoils/MapServer
Topographic:
http://services.arcgisonline.com/ArcGIS/rest/services/World_Topographic/MapServer

Comments (0)
Download It Now

**ArcGIS for AutoCAD 250**
- Create ArcGIS data Inside AutoCAD files
- Display and Query *Map Services*

**New in ArcGIS for AutoCAD 300**
- *Image Services*
- Extract Feature Classes from *Map Services*
- *Feature Service* Editing
Yes, it is important
AutoCAD versions 2010-2012 (64&32 bit)
ArcGIS Server version 10.0 and above
Summer 2011
WORKS IN BUT NOT WITH AUTOCAD MAP/CIVIL 3D
Not WMS/WFS/WFT...
YES, IT IS FREE