



Esri International User Conference | San Diego, CA
Technical Workshops | Thursday, July 14, 2011 – 3:40 PM

Exporting GIS Features to CAD Drawings

Alex LeReaux

Agenda

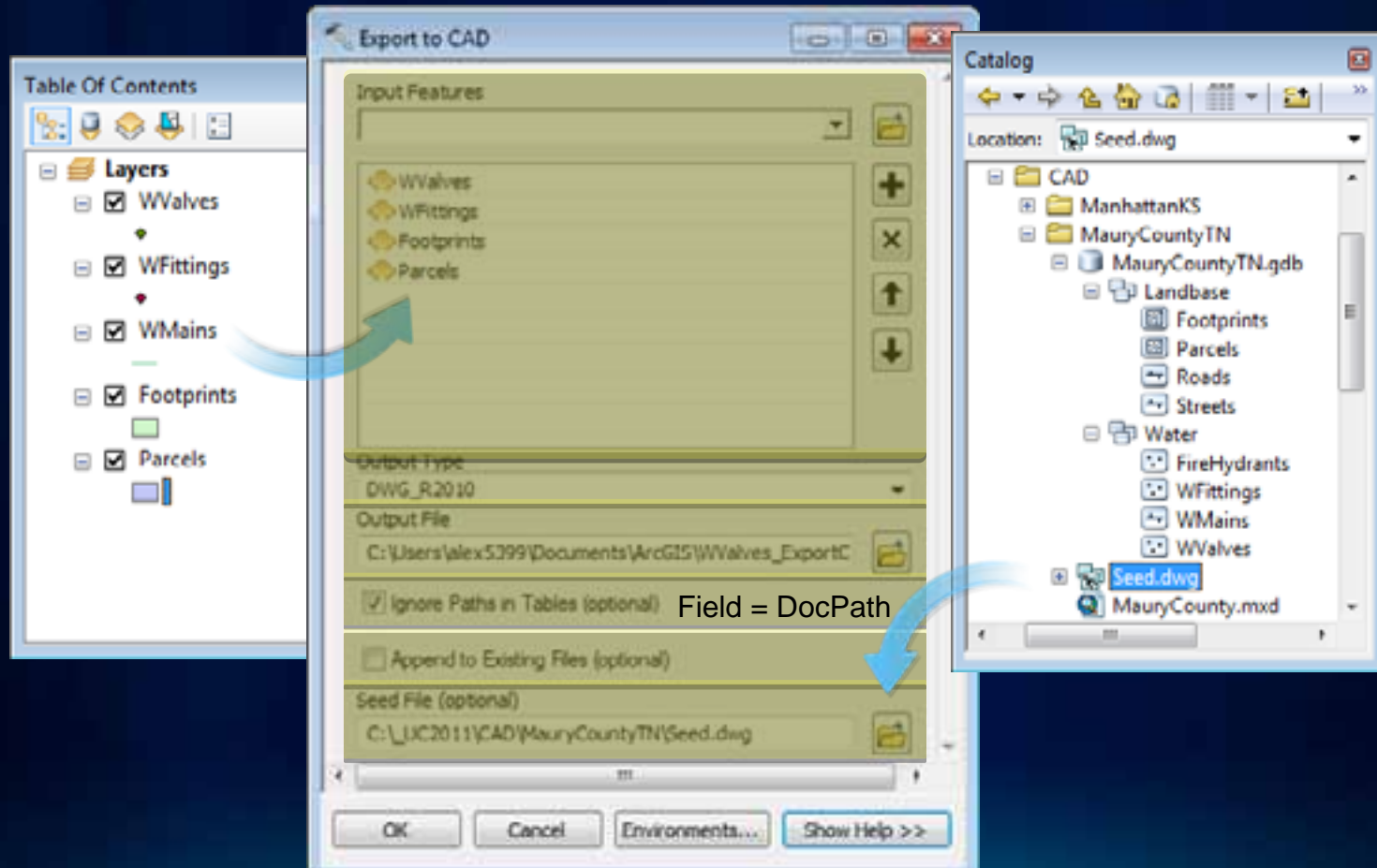
- **Anatomy of the Export to CAD tool**
- **Standard output**
 - **Extended output for AutoCAD drawings**
 - **Demo**
- **Customizing output**
 - **Generate specific drawing layers**
 - **Export attributes as CAD text**
 - **Export point features as AutoCAD blocks**
 - **Demo**

The Export To CAD tool



The Export To CAD tool

Feature layers/classes, and shapefiles to V8 DGN and DWG/DXF formats.

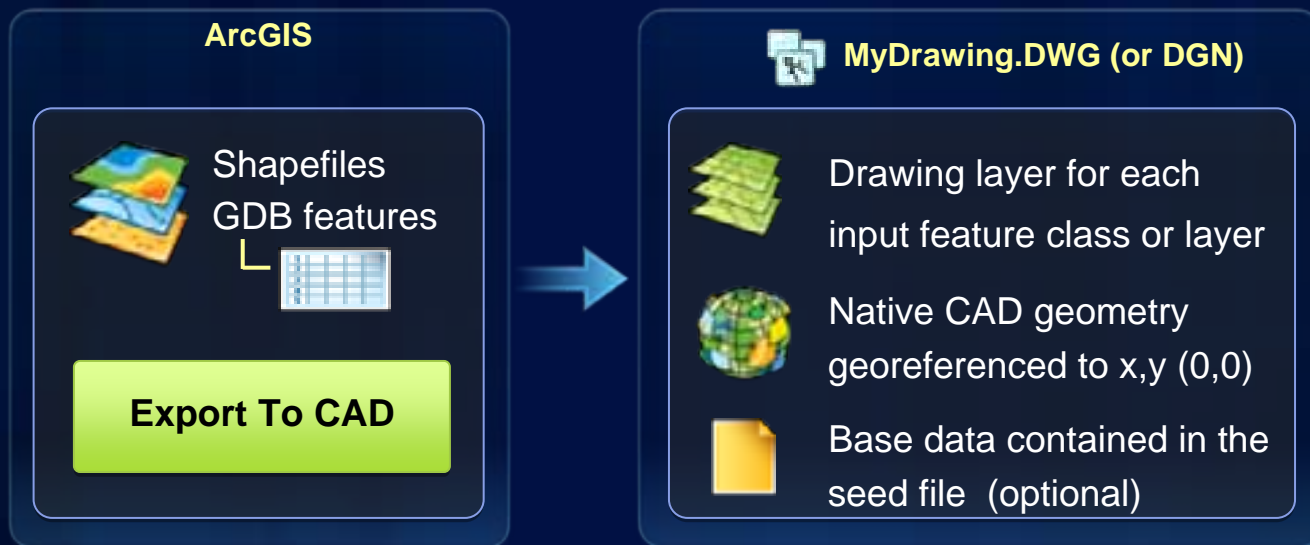


Standard output



Standard output

Out of the box results



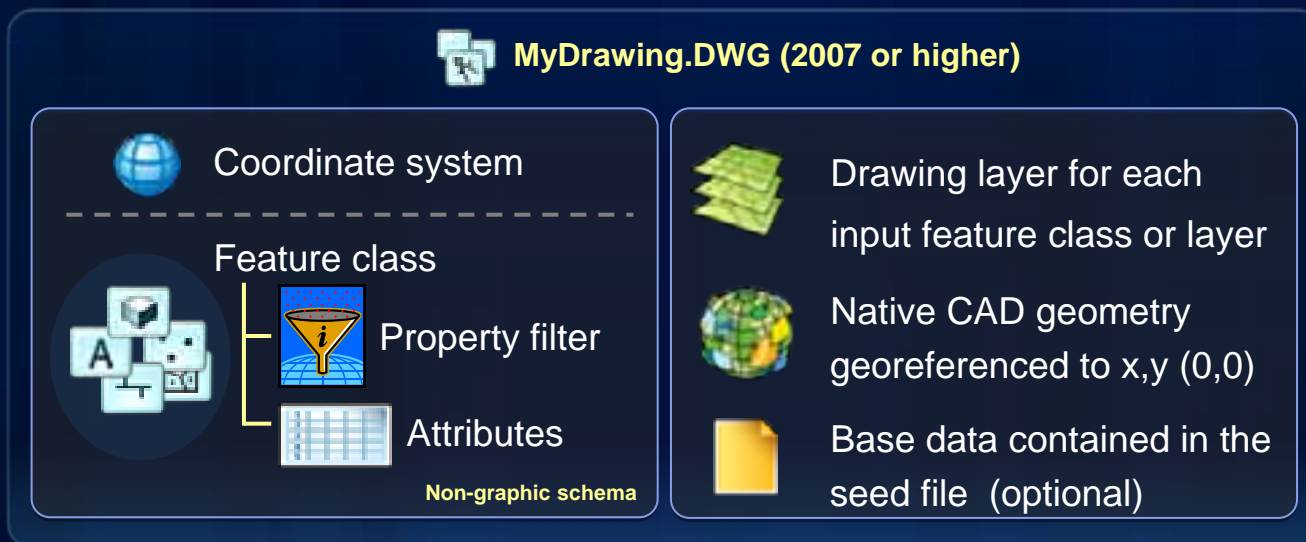
Shape type	Output DWG/DXF	Output to V8 DGN
Point	Point	Zero-length line
Polyline	LWPolyline, line, arc, circle, or ellipse	Complex chain, line, arc, or curve
Polygon	Closed LWPolyline	Complex shape
Annotation	Text	Text

Extended output for AutoCAD drawings



Extended output for AutoCAD drawings

Standard output (continued)



Shape type	Output DWG/DXF	Output to V8 DGN
Point	Point	Zero-length line
Polyline	LWPolyline, line, arc, circle, or ellipse	Complex chain, line, arc, or curve
Polygon	Closed LWPolyline	Complex shape
Annotation	Text	Text

Demo – Exporting standard output

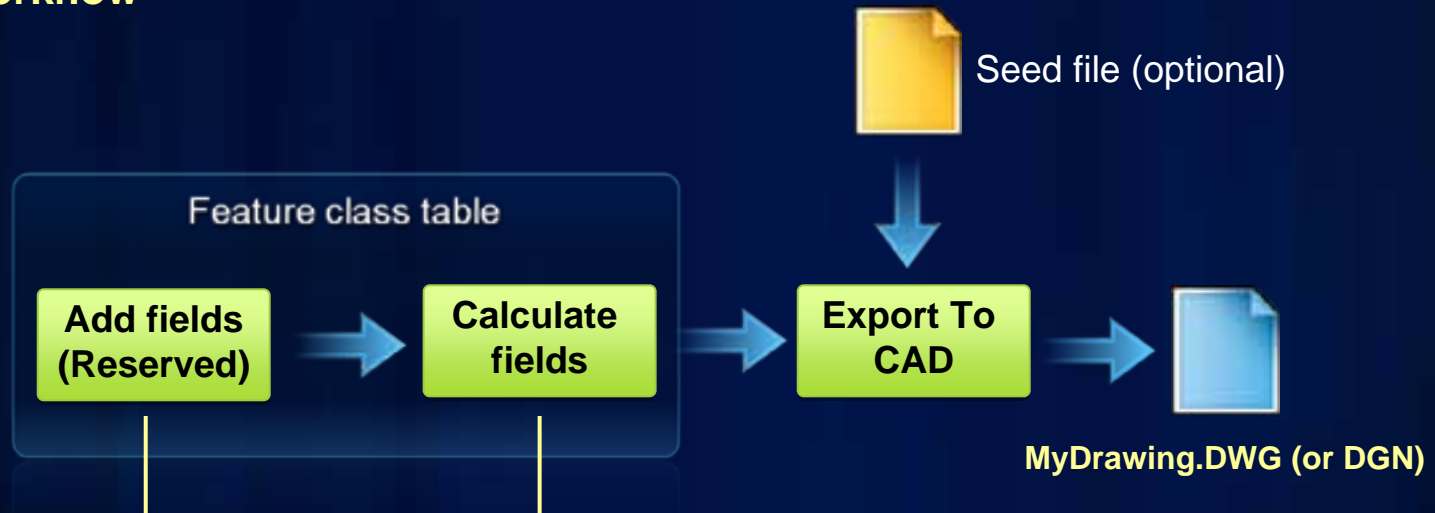


Customizing output



Customizing Output

Workflow



Add Field

Name:

Type:

Field Properties

Alias	
Allow NULL Values	Yes
Default Value	

Field Calculator

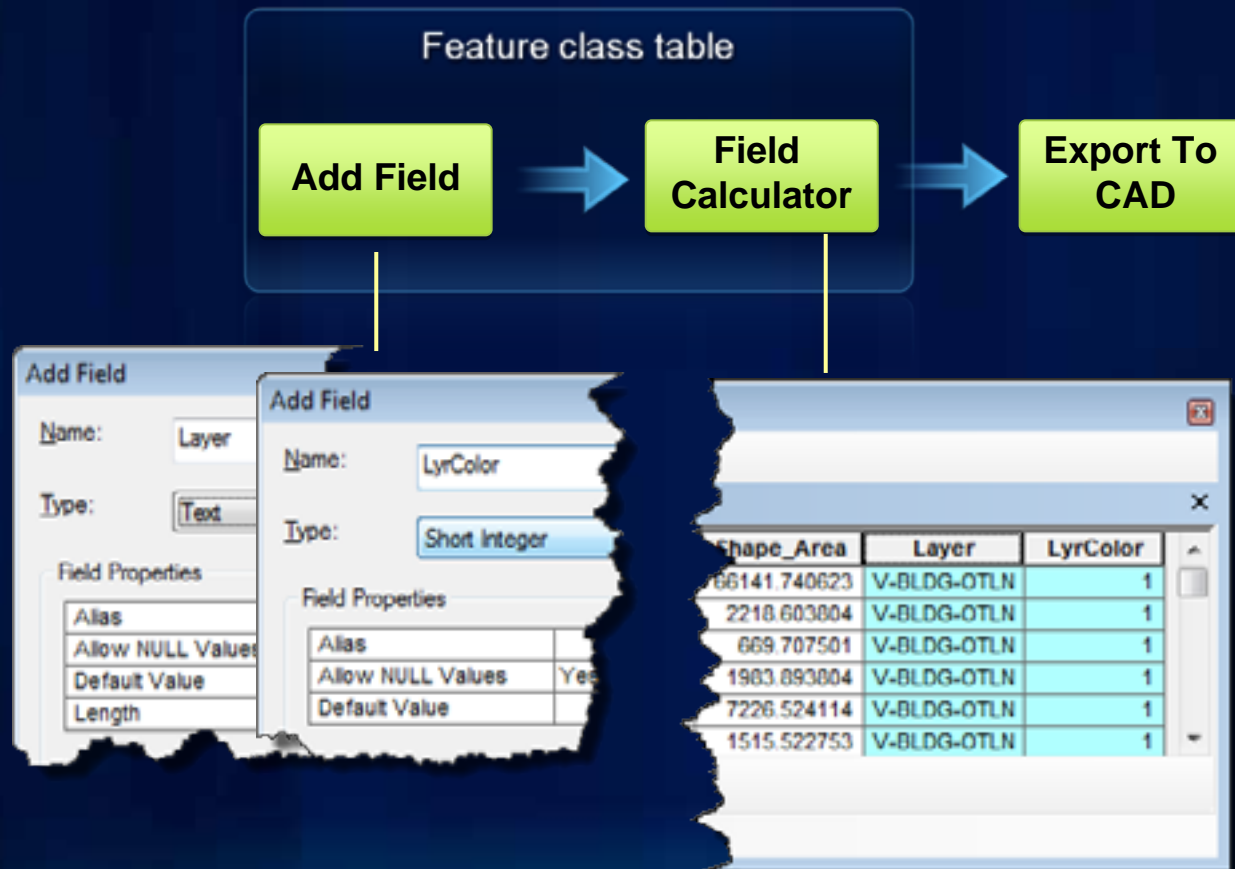
Parser
☒ VB Script ☐ Python

Fields:

- OBJECTID_12
- Shape
- propaddr
- proptype
- appraisal
- PIN
- Shape_Length

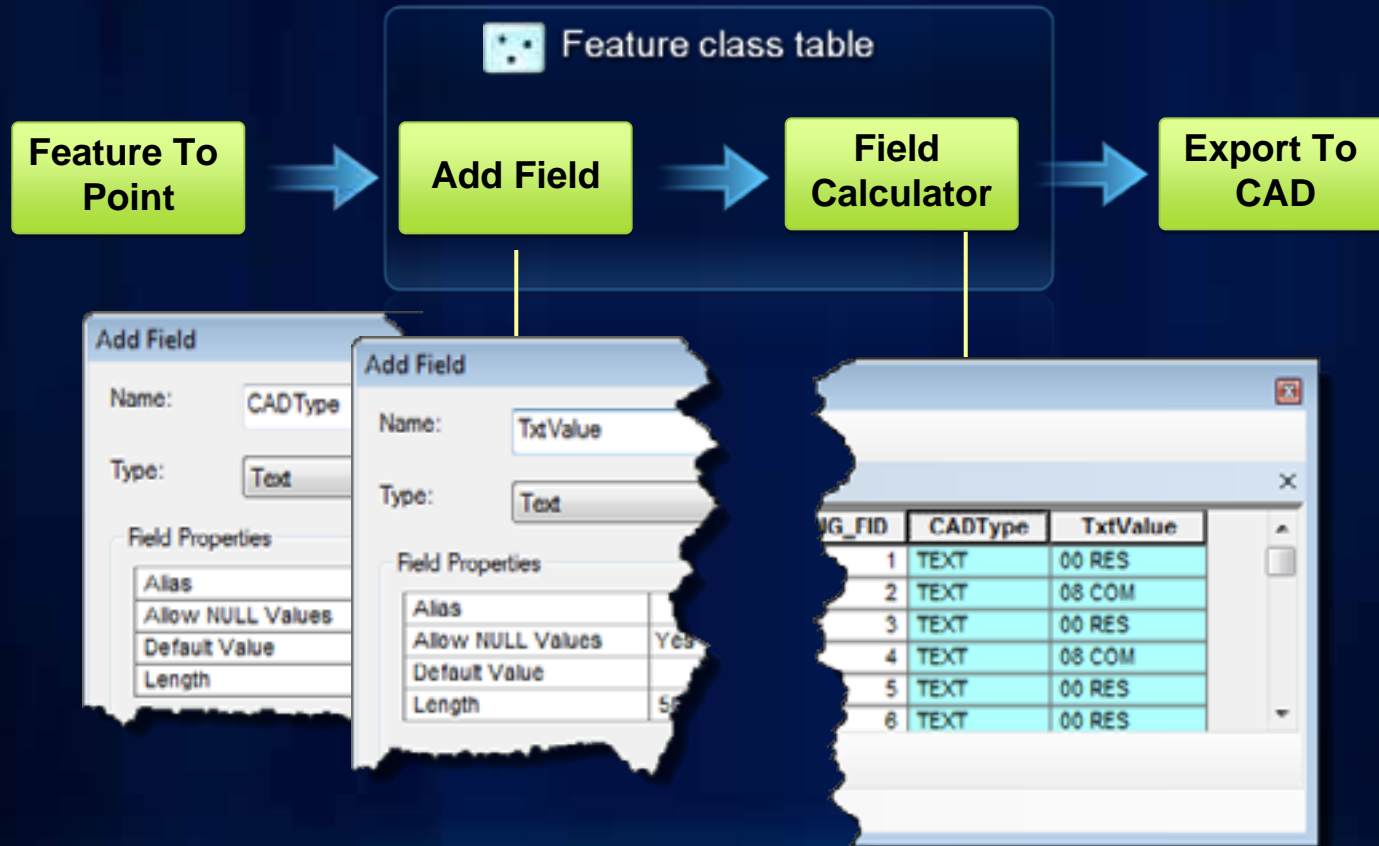
Generating specific drawing layers

Reserved fields Layer (as text) and LyrColor (as an integer)



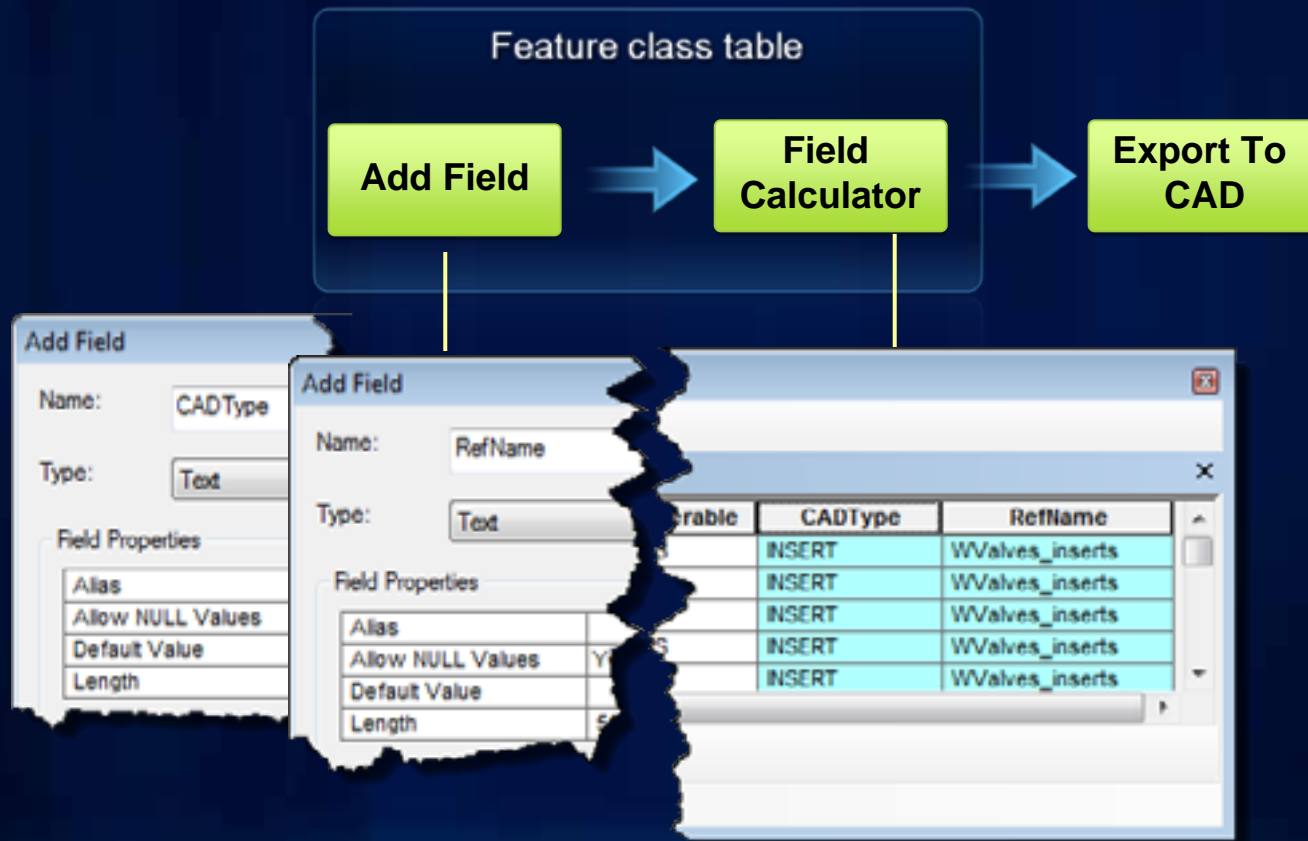
Exporting attributes as CAD text

A point feature and fields CADType (as text) and TxtValue (as field value)

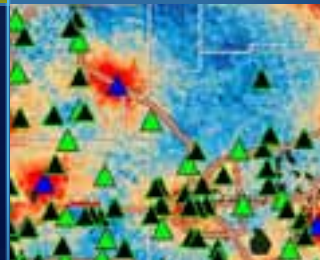


Exporting point features as AutoCAD blocks

Fields CADType and RefName, and a seed file with AutoCAD blocks



Demo - Exporting customized output



Exporting GIS Features to CAD Drawings

Review

- **One tool: Export To CAD**
- **Georeferenced geometry and a drawing layer for each input feature**
- **Standard output to AutoCAD drawing includes the coordinate system, feature class schema, and attaches attribute values to geometry**
- **CAD professionals can use ArcGIS for AutoCAD or custom .NET and/or AutoLISP.**
- **Customize output with reserved CAD fields and a seed files**

Thank You

- Please fill out evaluations at www.esri.com/sessionevals





esri