

Alabama Power Company <u>Utilizing GIS Solutions</u> <u>for Survey Drafting</u>

Jay Smith
Drafter, Transmission Data Management and Technology







- Alabama Power Company Serves 1.4 Million Customers
- Over 10,000 miles of Transmission Lines In Central/Southern Alabama
- Over 100,000 Transmission Towers and Poles
- Service Territory of over 44,000 miles







- Transmission Data Management and Technology
 - Route Mapping
 - Substation Boundary
 - Encroachment Drawings
 - Court Exhibits
 - Crossing Drawings
 - And more....



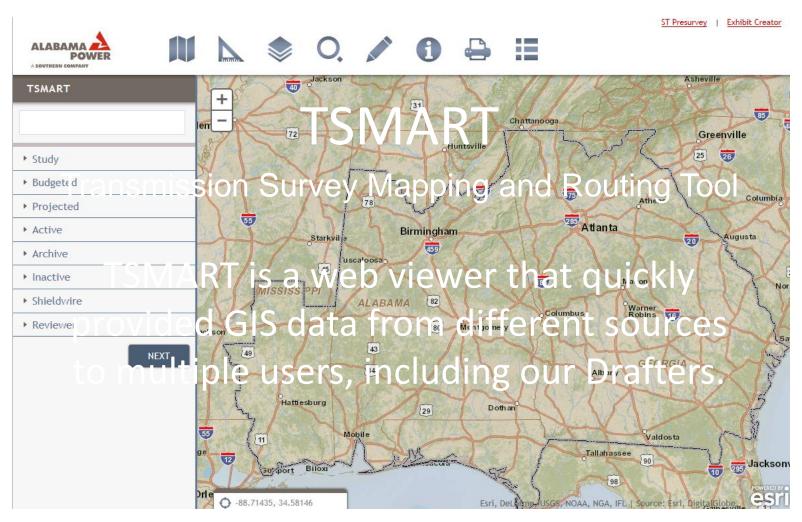




Problem: Improve drafting efficiency to leverage GIS and knowledge transfer











TSMART (Technical Info) HTML5 ArcGIS Server (rest endpoints)





TSMART

(Data Used)

- Survey/Cadastral
- Route Planning
- Environmental
- Construction
- Design
- ESRI and other available map services (Imagery/Streets)



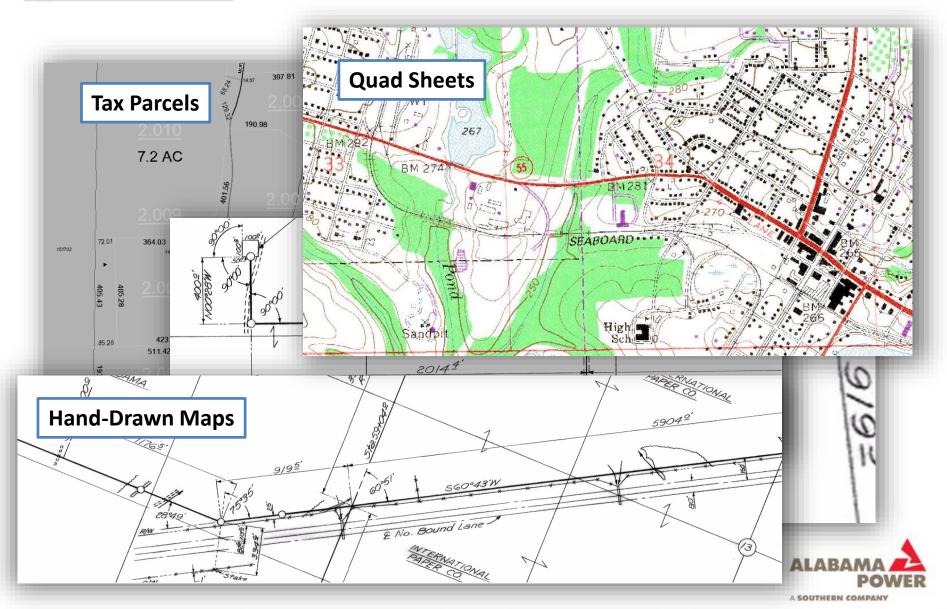


Additional Issues to Address:

- 1. Supplemental Paper Drawings
- 2. GIS/AutoCAD Separate Apps

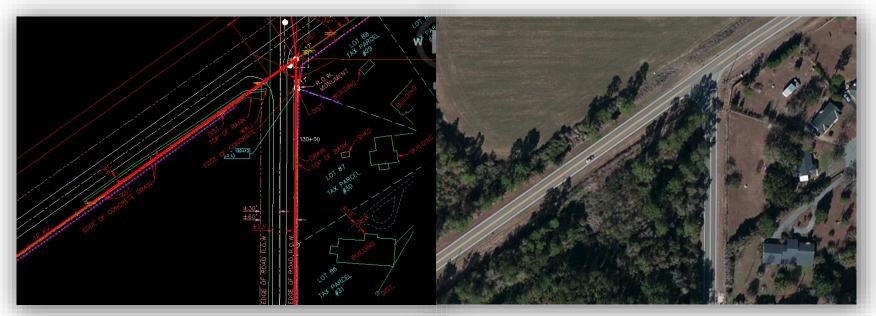






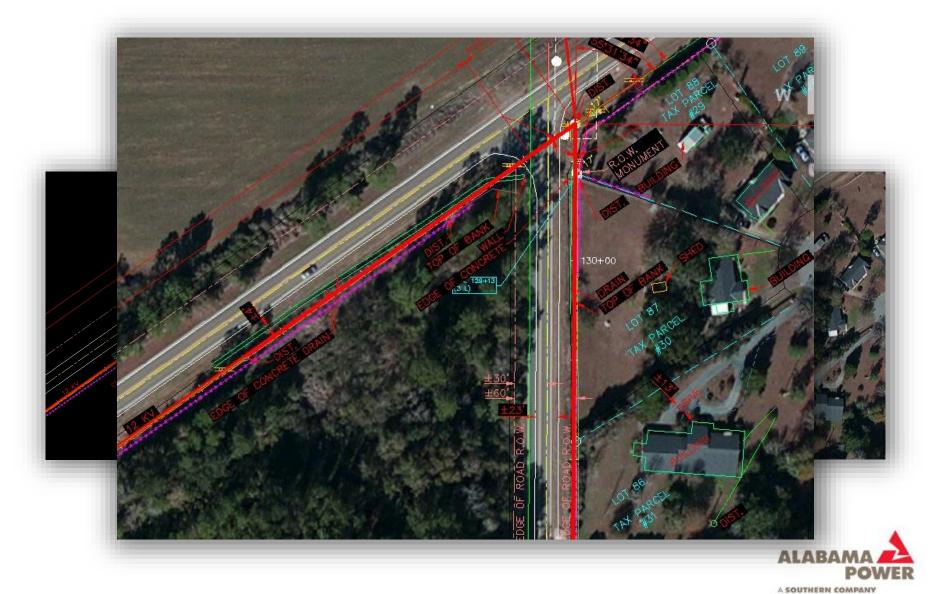


Additional Issues to Address:











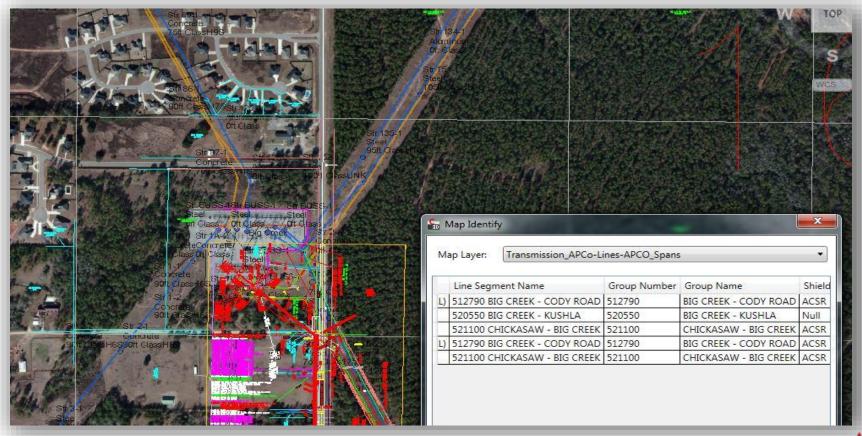


Aerial Photographs





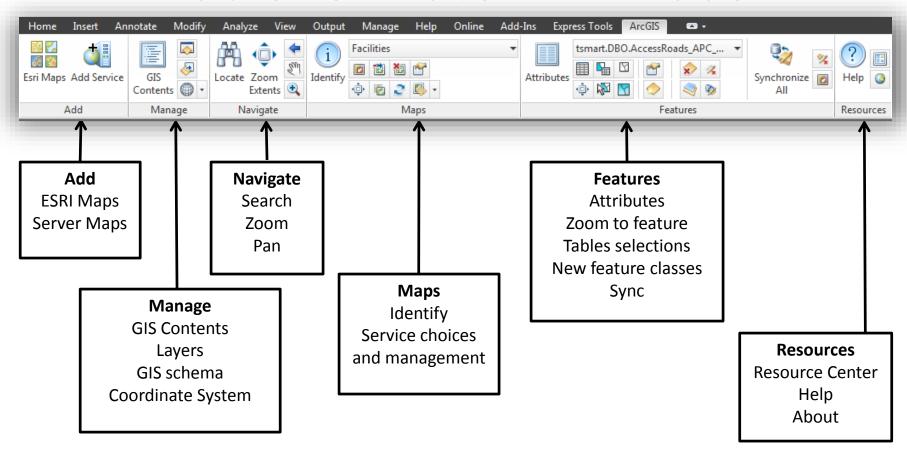
Efficiently Identify ArcGIS Map Service information from multiple sources







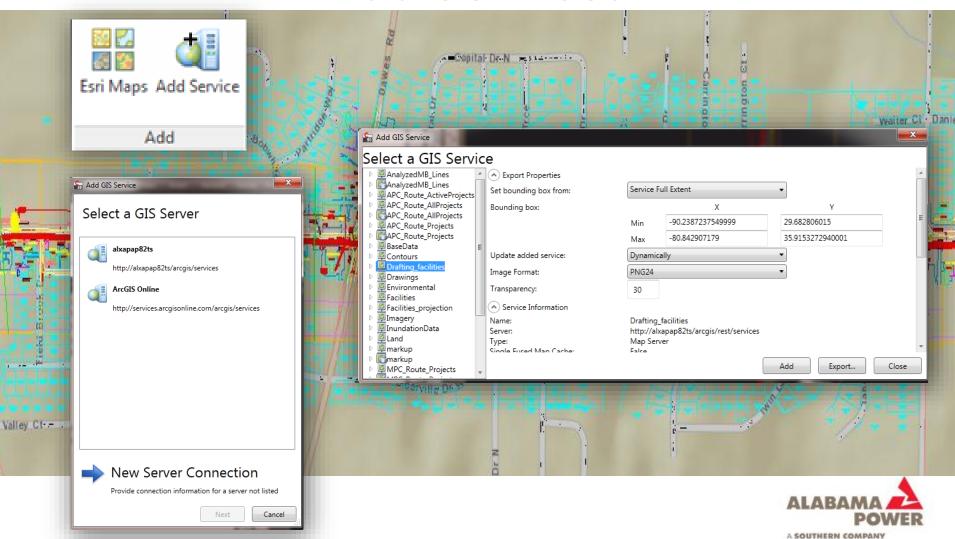
ArcGIS for AutoCAD Ribbon





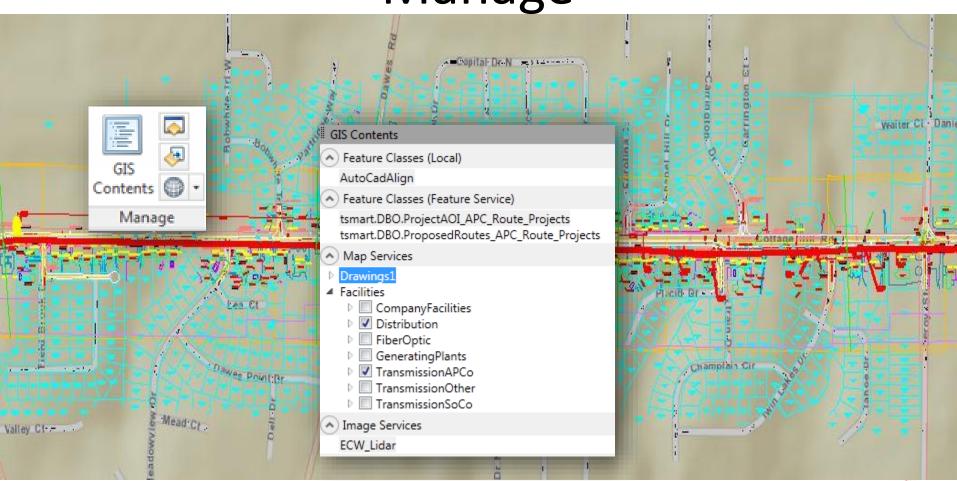


Add Services



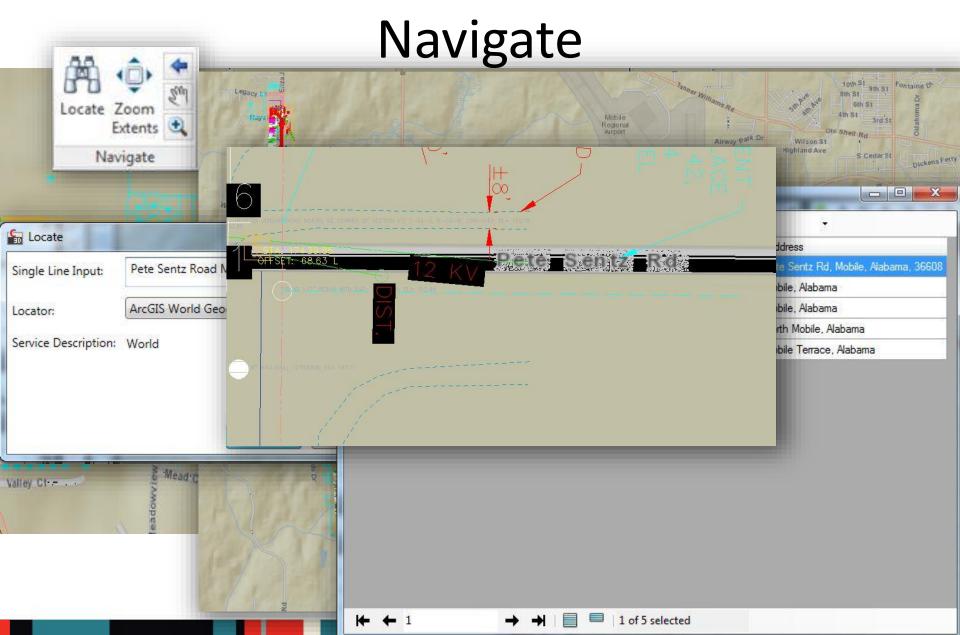


Manage



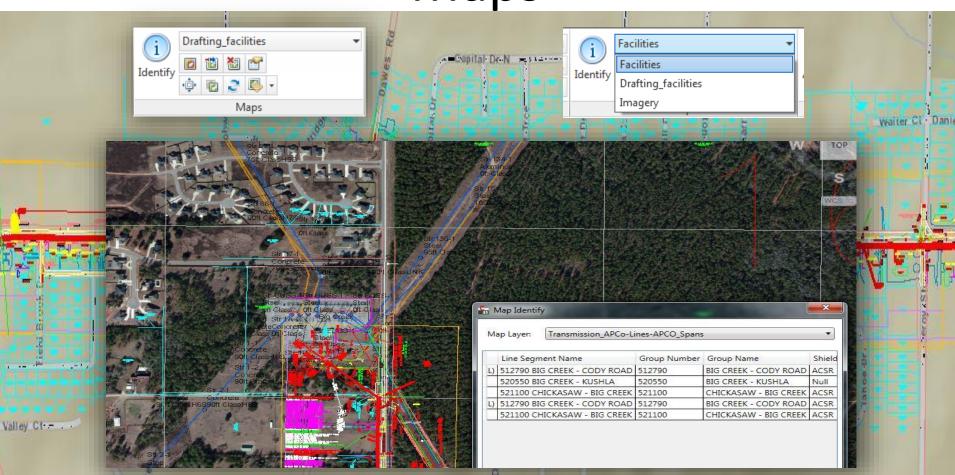








Maps







ArcGIS for AutoCAD

- ESRI plug-in for AutoCAD that enables the use of AutoCAD as a web client to ArcGIS Server.
- It gives the user map resources for reference during AutoCAD production
- Ability to add maps and map services.
- View one or more georeferenced ArcGIS Server map services in AutoCAD without any data conversion.
- Access to image services and geolocation service for navigating within an AutoCAD drawing.
- Feature layers may reference data from a variety of sources such as geodatabases, shapefiles, or raster data.



How moving to this product has improved work

- Faster drawing times.
- More accurate drawings.
- Better consistency of drawing information.
- Allows drafters to inadvertently do quality control of our GIS data.

