ArcGIS 10
Land Records Management

ArcGIS: Supporting Land Records Operations

ArcGIS Platform

Mapping & Records Management

Store, manage, & maintain accurate property records

Modeling & Analysis

Model Valuation Influences, Trends, and Impacts

Field Review & Data Collection

Final Review, Property Data Collection/Update

Public Access And Executive Dashboards

Public Portal to Property Information, Executive Dashboards

Other Data Built From Land Records

Everything we Manage has a Location . . .

- Appraisal Neighborhoods
- Influence Factors
- Model Districts
- Levy Districts
- School Districts
- Voter Wards
- Zoning/Planning
- Landuse
- Transportation
- Utilities
- Many, many more. . .

. . . and is Connected

ArcGIS 10 Land Records Management

Our Focus

- Parcel Editing Part of Core
  - ArcEditor & ArcInfo
- Parcel Fabric Data Model
  - Data Integrity
  - Topological Relationship b/n points, lines and polygons
- Streamlining Land Records Workflows
  - New Toolbar – Parcel Editor
  - Perform splits, merges, resurveys, etc.
- Land Records Resources
  - Web Templates
  - Industry Basemaps

Basic Editing Workflow

Parcel Fabric Data Model

Specifically for managing parcels

- Set of related tables and feature classes stored in a geodatabase
- Unit of work is the parcel
  - Consists of a set of lines with COGO attributes
  - Lines from neighboring parcels overlap
  - Corners are shared insuring integrity
- Supports tying to control points
- All organized into a connected parcel data model

Data Integrity

Eliminate slivers and gaps

- Easily and quickly incorporate new data
- Preserve parcel connectivity during incorporation
- Maintain positional relationships with other layers (easement, right of ways, utilities, etc.)

Streamlined Workflows

Support for industry standard workflows

- New Parcel Editor Toolbar
  - Merge parcels while maintaining interior lot lines
  - Split based on new interior lines or metes & bounds descriptions
  - Import digitally submitted data (from CAD files or other sources)
  - Update parcel corners to more accurate data
  - Number new parcels using “snake” tool

Tracking Edits

Maintain edit and survey information as required

- Optional methods for tracking edits:
  - Jobs keep track of editor and last edited date
  - Plans maintain descriptive survey information (names, dates, units, etc.)
- History automatically maintained
  - Parent/child relationships
  - Point in time queries
  - Using legal or edit dates

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Optional Positional Accuracy Improvement

- Make use of:
  - known control points
  - COGO information stored with parcel boundaries
  - Survey confidence
- Recalculate parcel corners
- Apply to associated layers

Loading Your Data

Easy importing of existing data

- Multiple methods available for loading your data into a fabric
  - Geodatabase feature classes and topologies
  - COGO coverages
  - CAD datafiles
- Geoprocessing Tools to facilitate import
  - Feature class, apply topology then import to parcel fabric data model

Demo

Jake Skinner
ArcGIS Parcel Editing Toolbar

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Publish Your Land Records Data

- Quickly and Easily publish your land records projects
- Enabled thru ArcGIS Desktop to ArcGIS Server Integration
- Land Records Web Templates
  - Tax Parcel Viewer
  - Valuation Dashboard
- Basemap Templates
  - Improved cartography
  - Industry best practices

ArcGIS Resource Center

ArcGIS.com Support.esri.com esri.com Sign In

ArcGIS Resource Center Help Blogs Forums

ArcGIS Products

- Desktop
- Web
- Mobile
- Server
- Engine
- Explorer
- ArcIMS

Functions

- Geoprocessing
- Geodatabase
- Mapping
- Imagery
- Enterprise GIS
- CAD Integration
- Developer SDKs
- Workflow Manager

User Communities

- Community Basemap
- Defense & Intelligence
- Electric & Gas
- Local Government
  - Land Records
  - Public Safety
  - Infrastructure

Solution Products

- ArcLogistics
- Business Analyst
- Geoportal Extension

ArcGIS Resource Center - Land Records

- Access Maps and Applications for Land Records
  - Tax Map Viewer
  - Valuation Dashboard
- Share your own maps and applications on ArcGIS.com
- Establish a regional user group

Community Basemap Program

- Basemap Template
  - Cartographic best practices
  - Developed for web deployment
- Share your content on ArcGIS Online
  - Hosted service for your data
  - Part of the World Topographic Map Service
  - Examples: DC, Philadelphia, NYC, San Francisco, Sussex County, New Castle County, State of New Jersey

Demo

Jake Skinner
ArcGIS Server Demonstration

Summary

- Streamlined maintenance workflows to save time
- Optional capabilities to improve positional accuracy of data
- Parcel fabric data model to insure spatial integrity
- Easy migration process no matter where your data currently is
- Part of core ArcGIS
- Web templates for quick and easy deployment of land records data

Thank You!

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