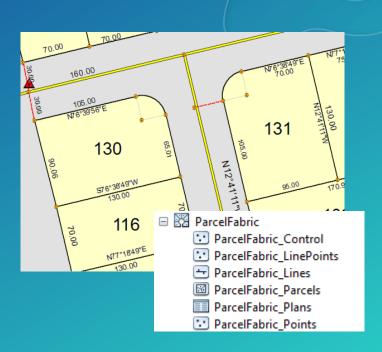


What to expect

- An introduction to the parcel fabric
- A detailed explanation of the parcel fabric data model
- General editing techniques using parcel editing tools

What is a parcel fabric?

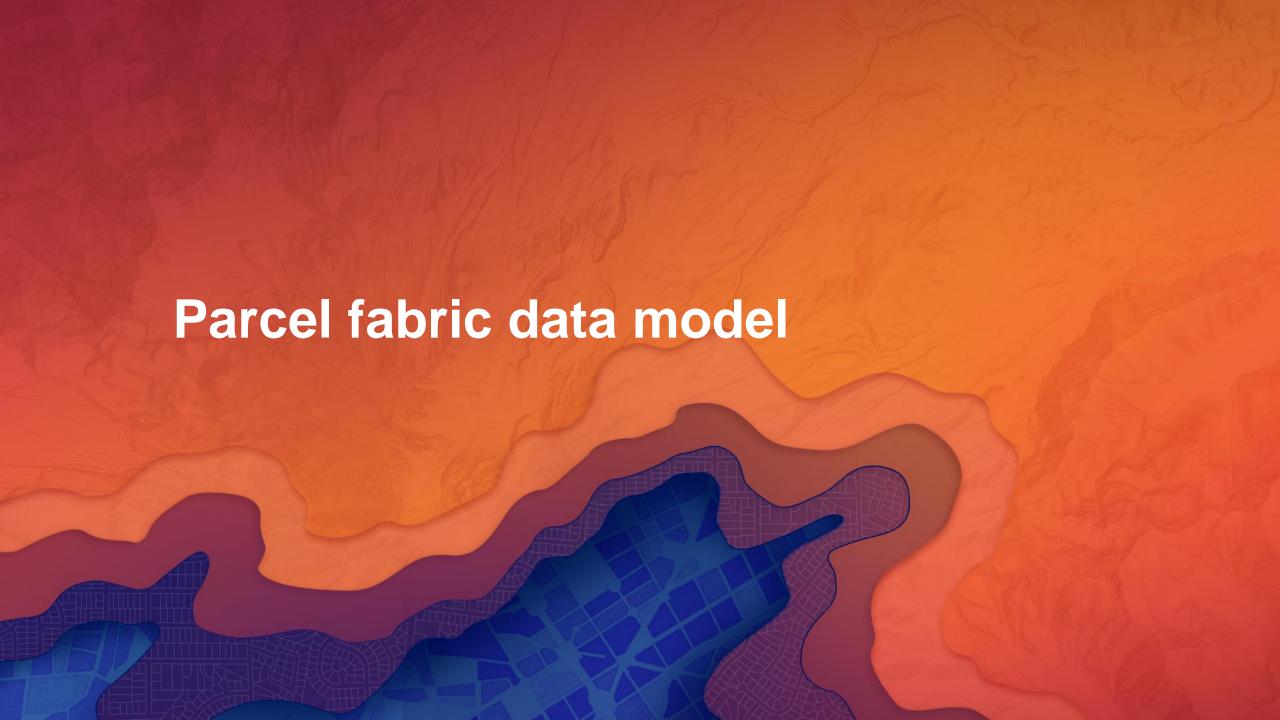
- Dataset of related feature classes and tables
 - Polygons, lines, points, plans, etc.
 - Predefined system attributes
- Connected parcel groups
 - Forms a parcel boundary network
- Explicit topology
 - Defined by common parcel corner points
- Parcel Editor toolbar



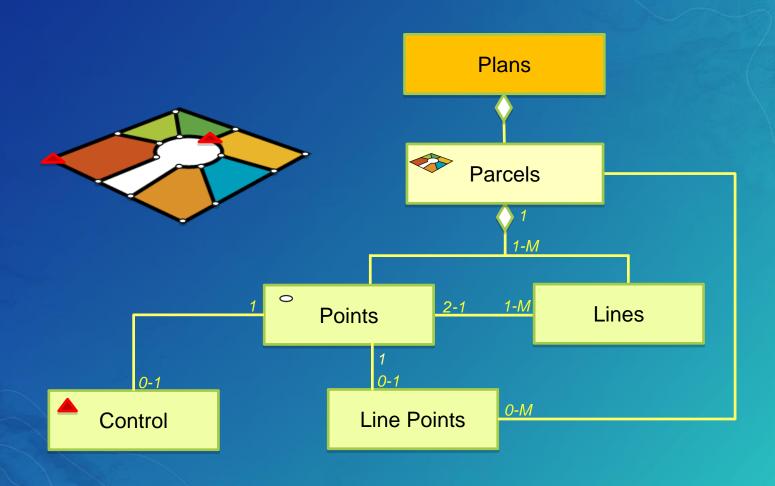
Why use the parcel fabric?

- Uses an optimized data model for parcel editing
- Preserves recorded information
- Maintains topology between parcels
- Maintains overlapping parcels
- Maintains historic parcels
- Uses automated workflows
- Uses/stores control points
- Maintains spatial accuracy





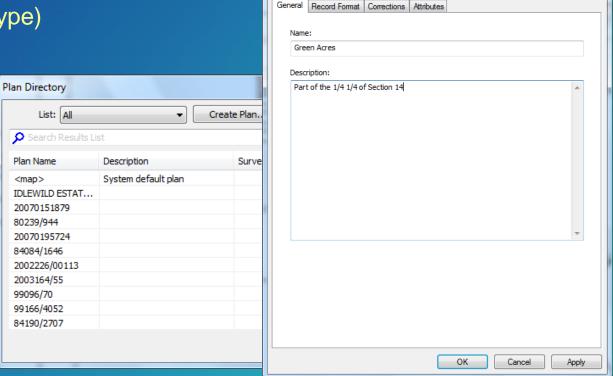
Parcel fabric data model



Plans

Parcel fabric data model

- Represent the legal document
- Store information such as
 - Record format (direction, angle, curve type)
 - Plan metadata
 - Legal date
- Contain one or many parcels

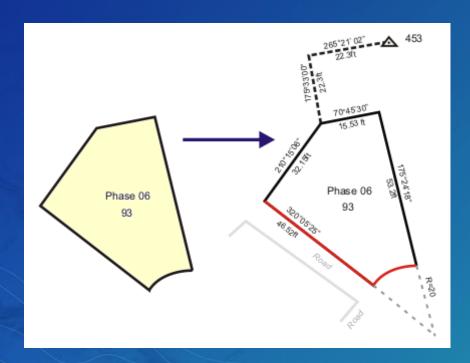


Plan Properties

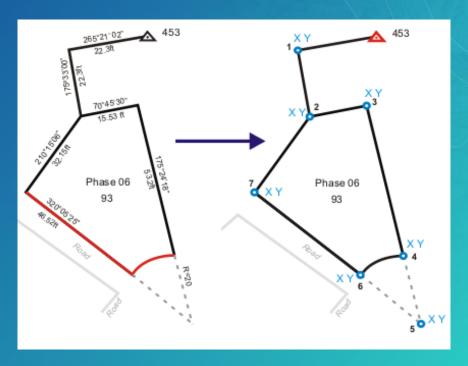
Parcels

Parcel fabric data model

Parcel polygon is defined by a traverse



Parcel polygon has related lines

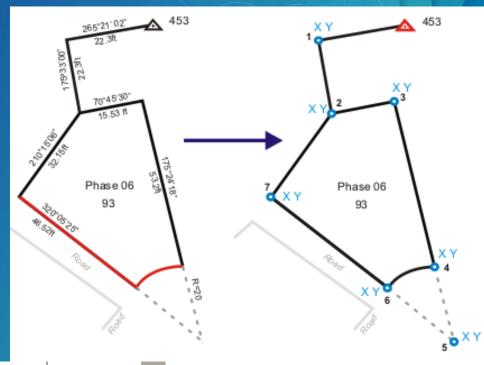


Lines have related points

Lines and Points

Parcel fabric data model

- Lines have From and To points
- Lines store recorded, COGO dimensions
- Lines have categories
 - Boundary, Radial, Connection,
- Points have X Y Z coordinates
- Points can have a control point



	1	N89°17'14"E	107.150	2	
From Point	2	S0°42'46"E	111.860	3	To Point
	3	S89°17'14"W	107.150	4	10 1 01111
	4	N0°42'47"W	111.860	1	

Parcel Traverse

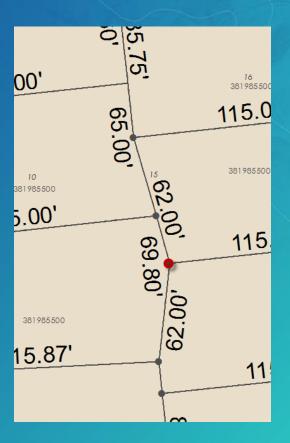
Line points

Parcel fabric data model

- Ensure topology between parcels
- Preserve recorded dimensions



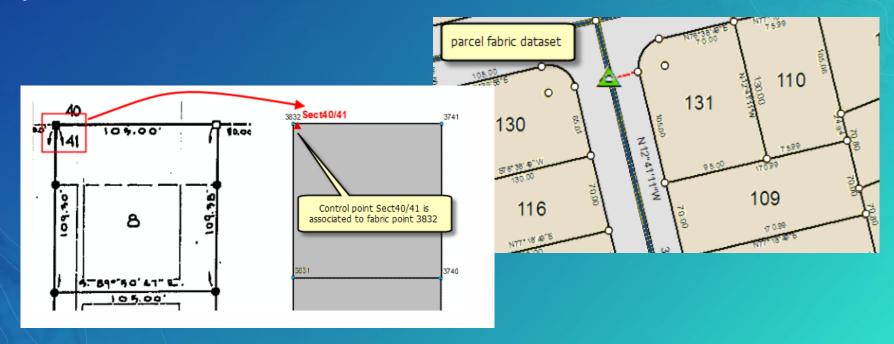
249.42 + 249.59 **+ 500**



Control points

Parcel fabric data model

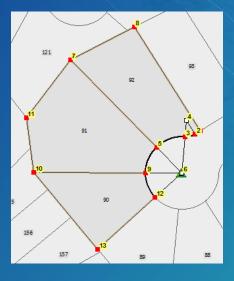
- Related (linked) to parcel points
- Can be imported or manually added
- Parcel points can be adjusted to control points in a parcel fabric least-squares adjustment

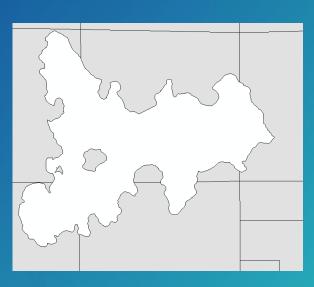


Parcel Fabric Data Model

Supports:

- True parametric curves and radial lines
- Natural boundaries
- Donut/island and multipart parcels
- Historic parcels
- Stacked parcels (Condos)
- Overlapping parcels





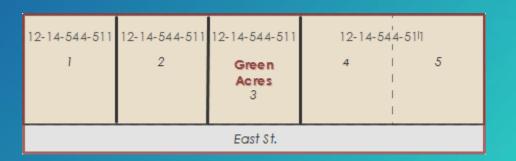


Overlapping parcels

Parcel fabric data model

• Subdivisions, Lots, Tax Parcels, Historic parcels share common points

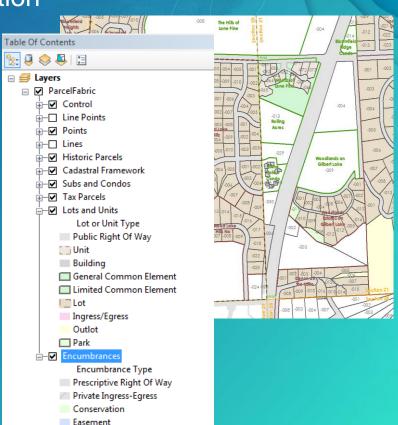


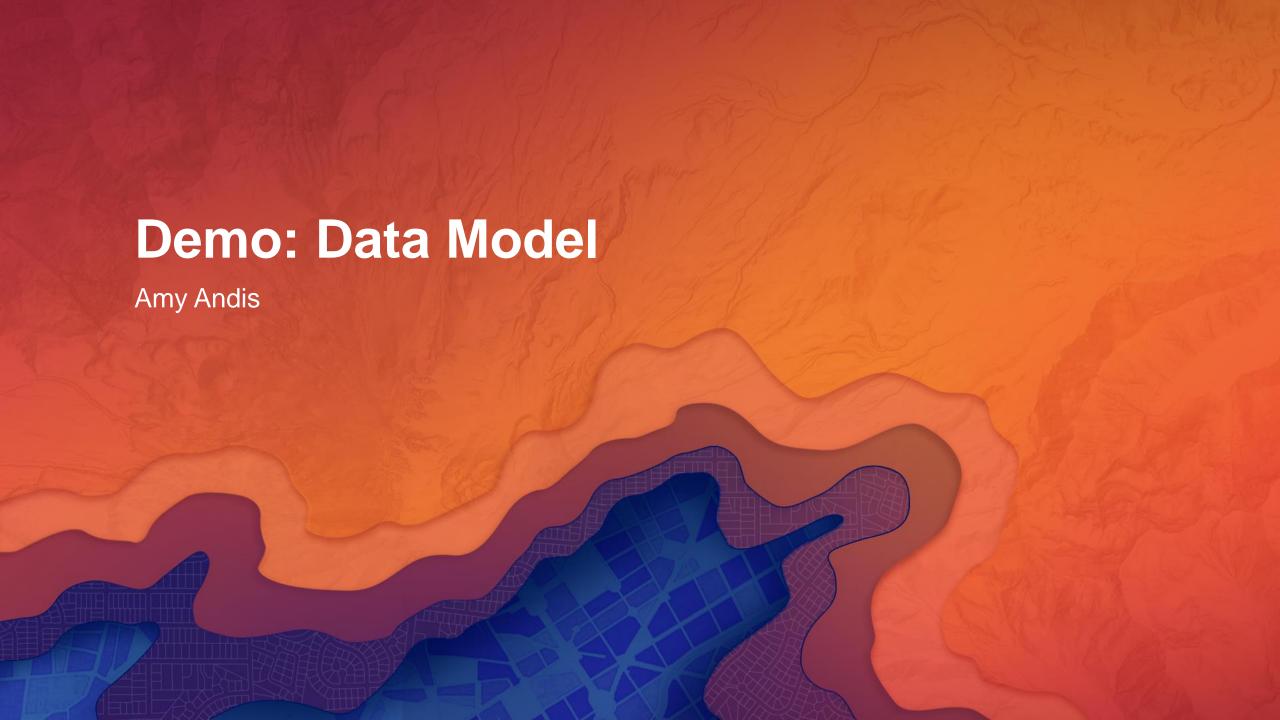


Local Government Information Model (LGIM)

Parcel fabric data model

- Parcel fabric data model can be optimized for your organization
 - Add attributes, tables, definition queries
- In the USA, the LGIM is used
- Parcel fabric can be enabled with the LGIM
- Provides a configured layer for streamlined editing
- Provides automated parcel editing workflows





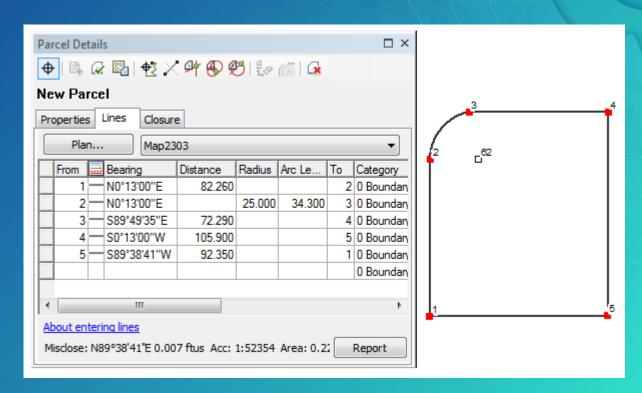


Parcel Editing

Create new parcels

- Parcel Editor toolbar
- Parcel traverse
 - Primary method of creating parcels
- Construct from parent parcel
- Parcel division, merge, remainder
- COGO tools
- Parcel joining
 - Add new parcels to the parcel fabric layer

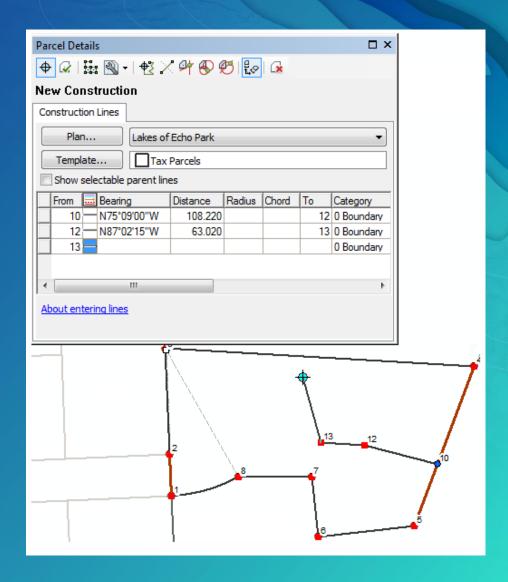




Parcel Editing

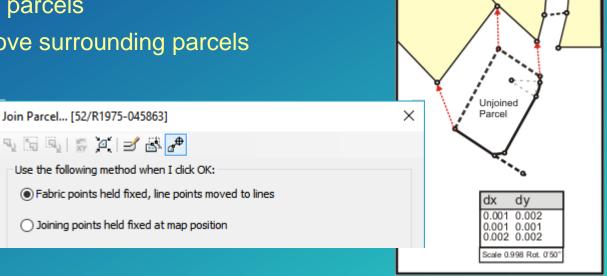
Construct new parcels

- Split parent parcels
 - Construct from parent
- Build parcels from construction lines
- Add or paste construction lines



Parcel joining

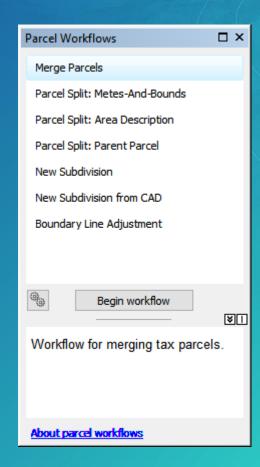
- New parcels are interactively joined to the parcel fabric layer
 - Parcels are cartographically matched to existing parcels
 - Minimizes slivers, gaps, overlaps
- Two join methods
 - Fit new parcel to surrounding parcels
 - Hold new parcel fixed and move surrounding parcels



Automated parcel editing workflows

Local Government Information Model

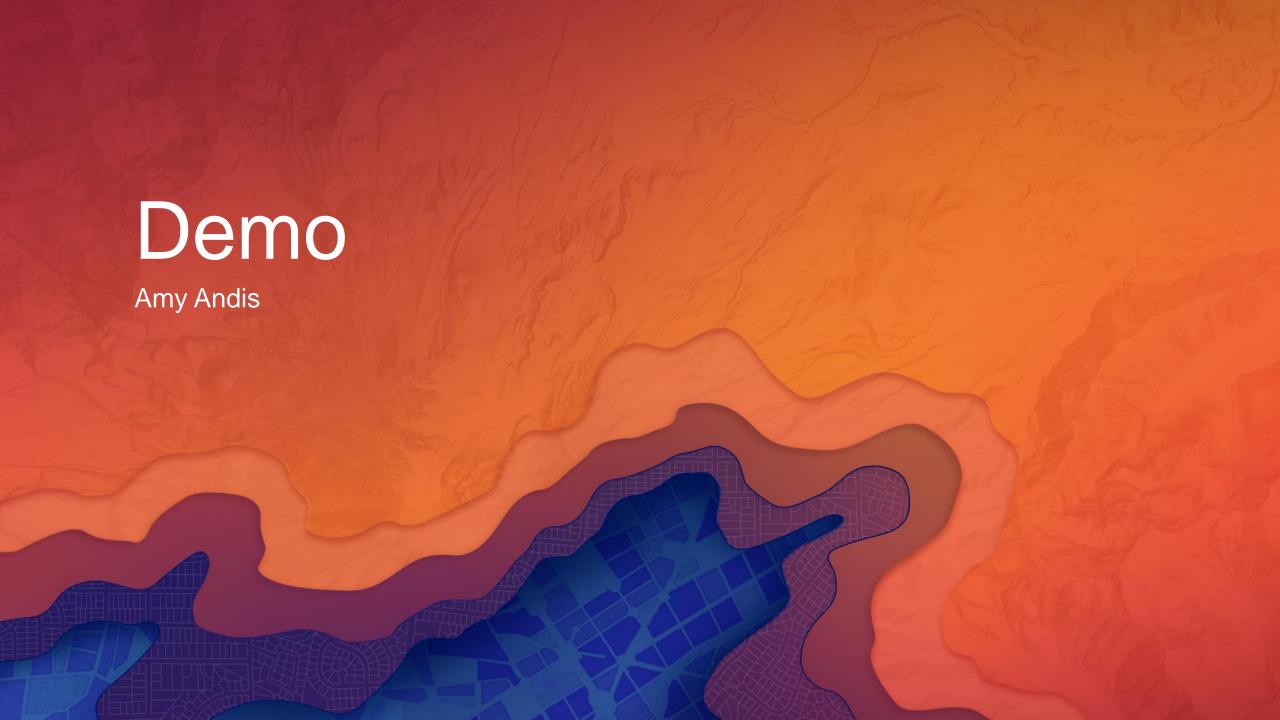
- Common parcel editing workflows in local government
 - Parcel fabric must be enabled with the LGIM
- Workflows can be treated as guides/tutorials



Adjustments in the parcel fabric

- Least-squares adjustment
 - Adjust parcels to two or more control points
 - Parcel dimensions must match record dimensions
 - High degree of spatial accuracy
- Manual transform
 - Move/shift a selection parcels
- Feature adjustment
 - Align features to adjusted parcel fabric boundaries





Parcel fabric summary

- Uses an optimized data model for parcel editing
- Preserves recorded information
- Maintains topology between parcels
- Maintains overlapping parcels
- Maintains historic parcels
- Uses automated workflows
- Uses/stores control points
- Maintains spatially accuracy



The Next Generation of Parcel Management



Esri will support parcel management in future releases of ArcGIS Pro. The new generation of parcel management will be of interest to customers who maintain cadastral records at any scale, domestically and internationally.

The new generation will introduce 2D/3D editing capabilities and a simpler more efficient approach for parcel maintenance. The new generation of the parcel fabric can be edited from the entire ArcGIS Platform and maintained using the new improved editing functionality of ArcGIS Pro.

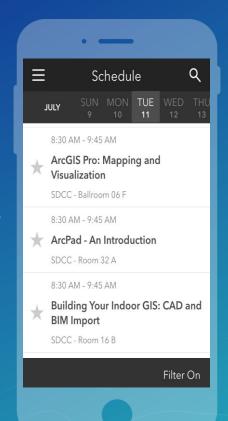
Existing customers will be able to easily upgrade their parcel fabric without having to remigrate their data, thus saving their investment.

Please Take Our Survey on the Esri Events App!

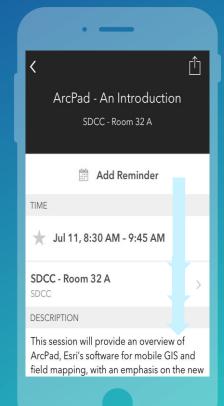
Download the Esri Events app and find your event



Select the session you attended



Scroll down to find the survey



Complete Answers and Select "Submit"

