



Understanding our world.

2013 Esri International User Conference

July 8–12, 2013 | San Diego, California



Technical Workshop

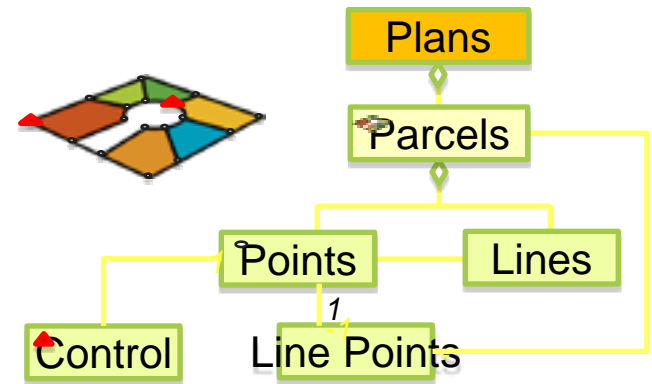
Editing & Maintaining Parcels with ArcGIS

Tim Hodson

Jason Camerano

Parcel Fabric Model, Tax Parcel Editing Map

Tim Hodson



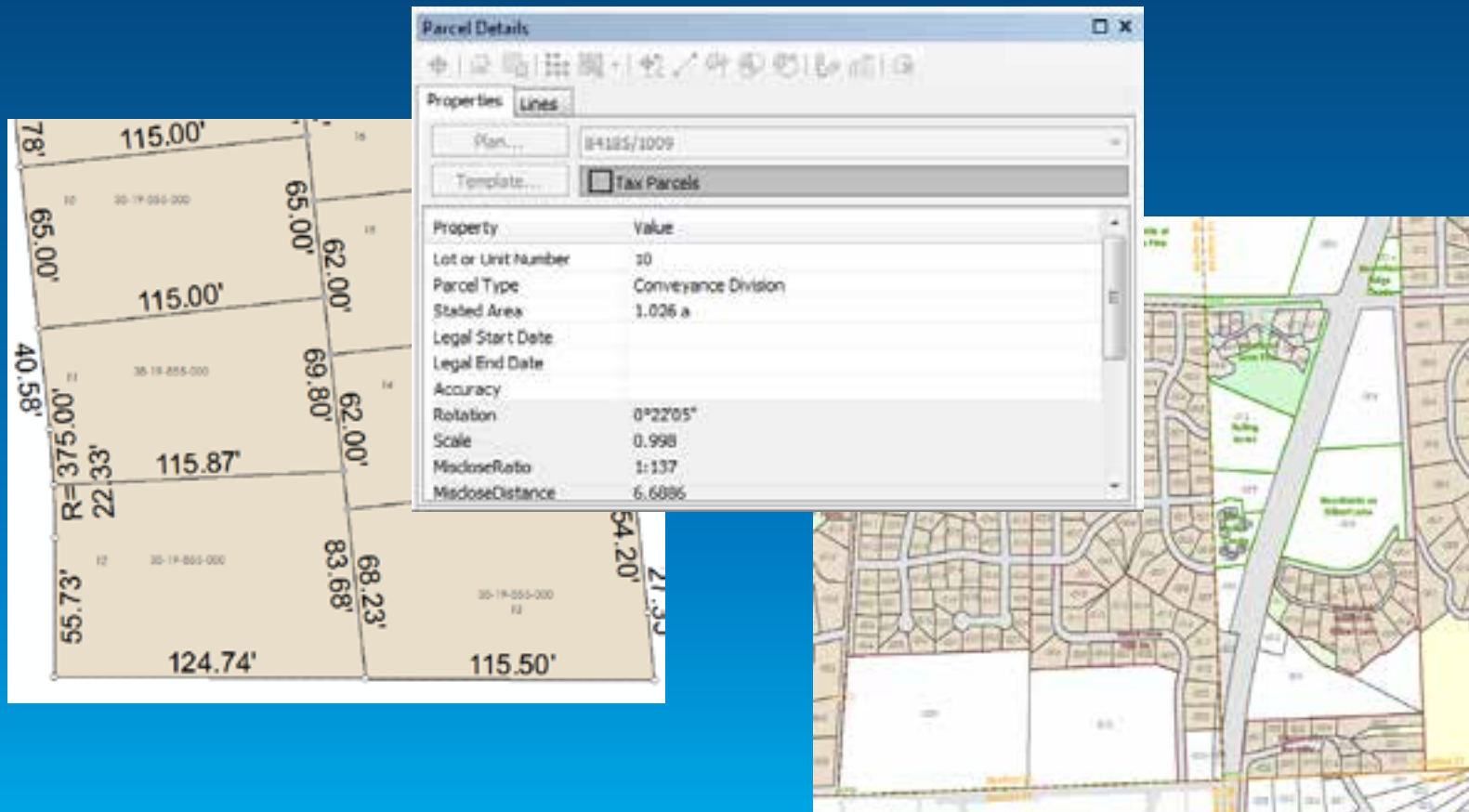
Parcel Editing with ArcGIS 10.2

Improved Parcel Editing Workflows

- Most common Parcel Editing workflows
 - Parcel Splits
 - Parcel Merges
 - New Subdivisions
 - Boundary Line Adjustments
 - CAD integration

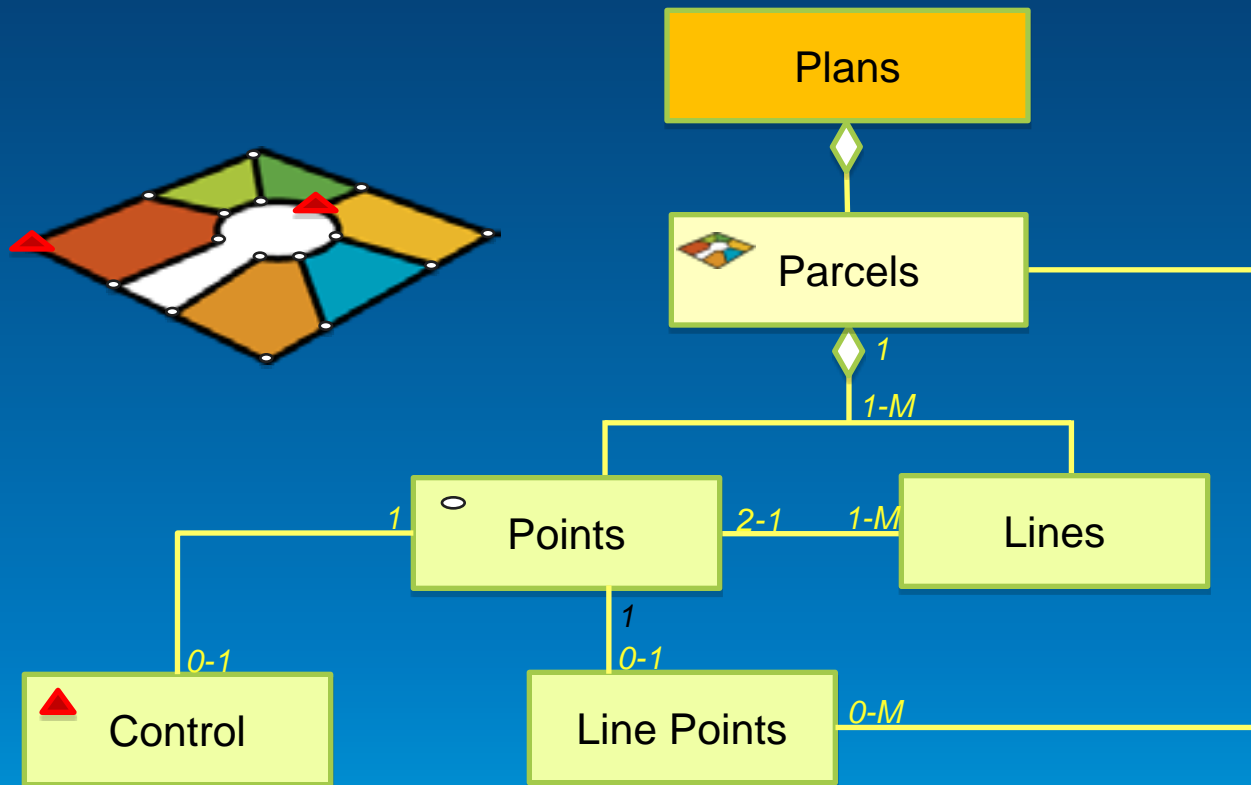
Parcel Fabric Data Model

Optimized Data Model for Parcels



What is a Parcel Fabric?

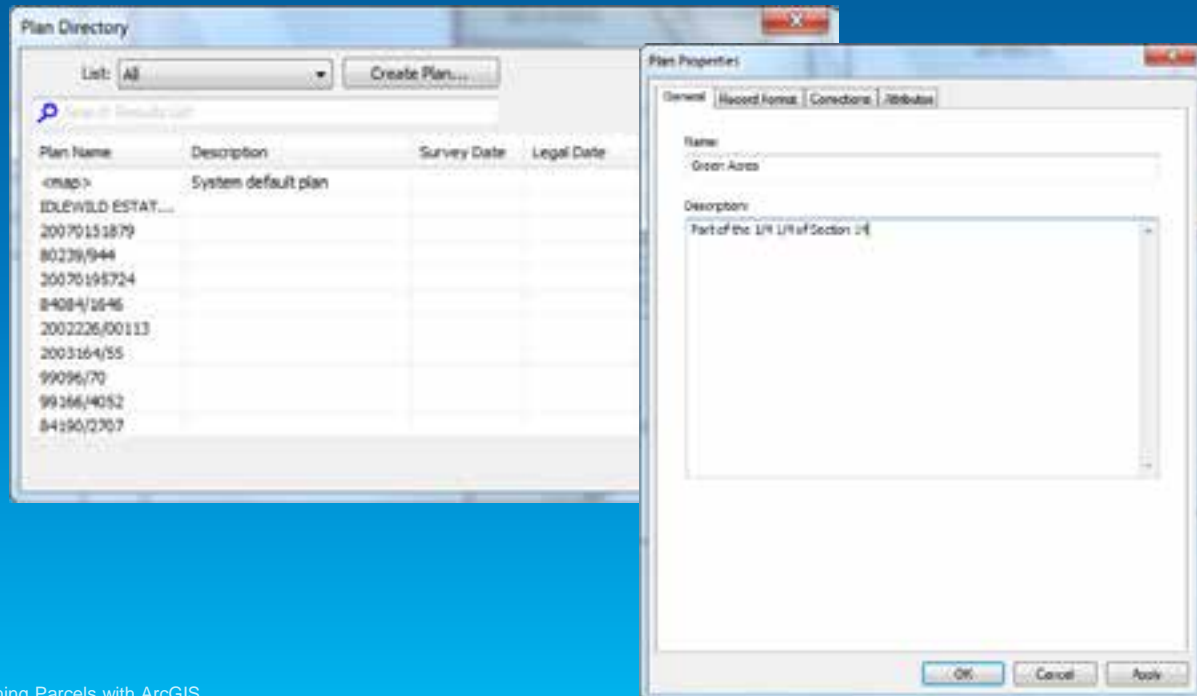
Parcel Fabric Data Model



Parcel Fabric

Plans

- Store and Manage recorded information about parcels
- One or many parcels are contained within a plan

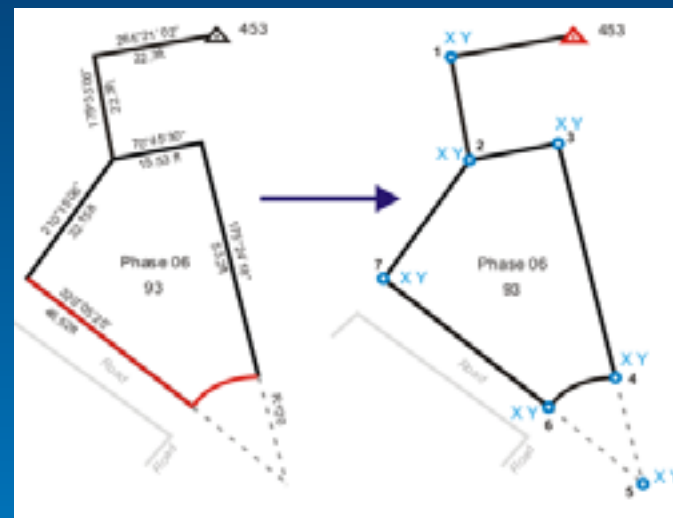


Parcel Fabric

Parcels



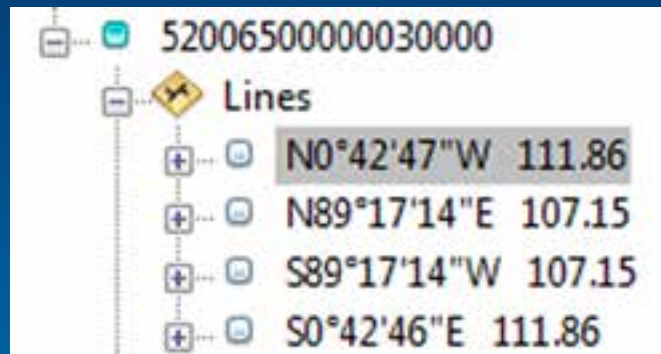
Parcel Polygon has related lines



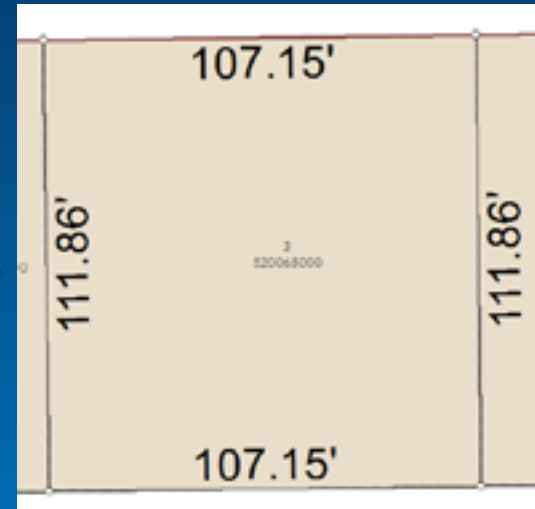
Lines have related points

Parcel Fabric

Lines/Points



Lines store record dimensions

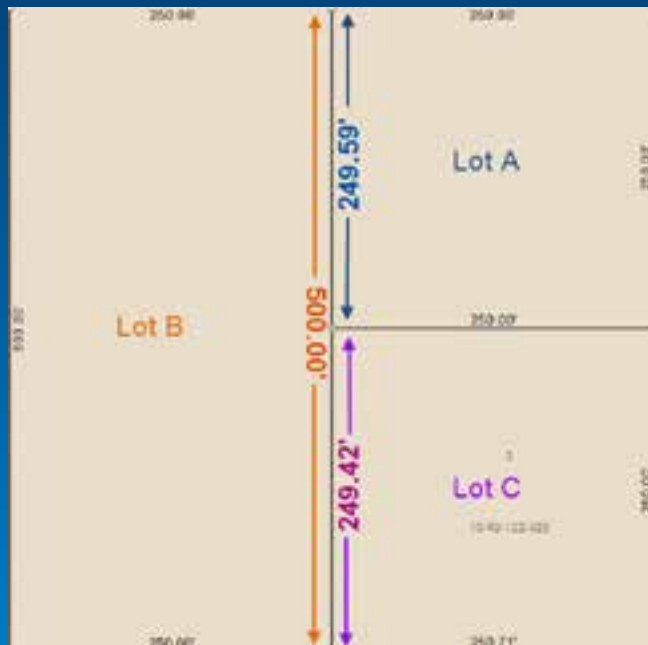


1	N89°17'14"E	107.150			2
2	S0°42'46"E	111.860			3
3	S89°17'14"W	107.150			4
4	N0°42'47"W	111.860			1

Points are stored on the ends of lines

Parcel Fabric

Line Points



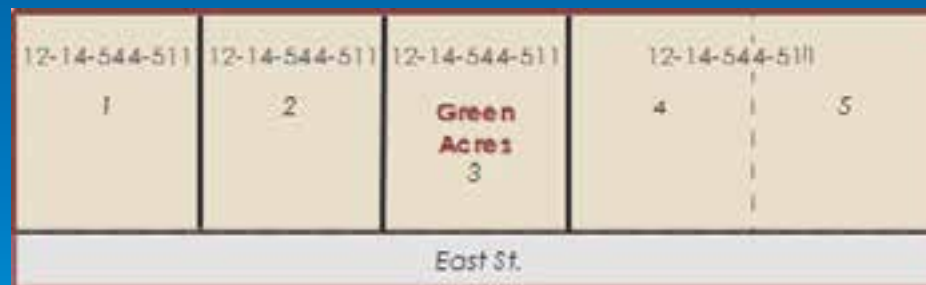
$$249.42 + 249.59 \neq 500$$



Preserve original record dimensions, ensure topology between parcels

Parcel Fabric

Overlapping Parcels



All Subdivisions, Lots, Tax Parcels, etc. are “Parcels” in the Parcel Fabric

DEMO

Exploring the Tax Parcel Editing Map

Jason Camerano



Parcel Edit Workflow Models

Tim Hodson



Workflow Models

Workflows for maintaining Parcels

Parcel Details

Properties Lines

Plan... 84125/1009

Template... ☐ Tax Parcels

Property	Value
Lot or Unit Number	30
Parcel Type	Conveyance Division
Stated Area	1.026 a
Legal Start Date	
Legal End Date	
Accuracy	
Rotation	0°22'05"
Scale	0.998
MiscloseRatio	1:137
MiscloseDistance	6.6886



Merge Parcels

Parcel Split: Metes and Bounds

Parcel Split: Area Description

Parcel Split: Parent Parcel

New Subdivision

New Subdivision from CAD

Boundary Line Adjustment

Begin workflow

This workflow describes the steps for splitting a tax parcel from a metes-and-bounds description.

Workflow Models

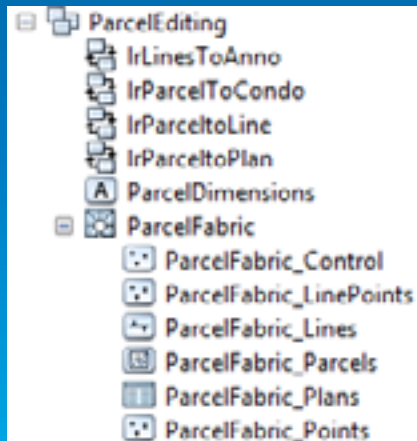
Parcel Workflows

- Released with 10.1 SP1
- Parcel Fabric ships with Parcel Edit Workflow for Local Government Information Model (LGIM)
- New at 10.2: Integration with Deed Drafter

Workflow Models

Parcel Editing

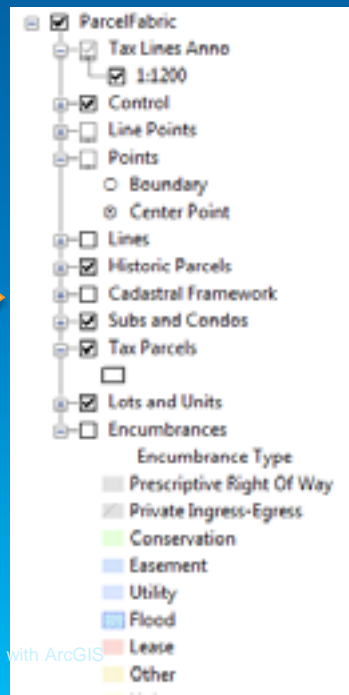
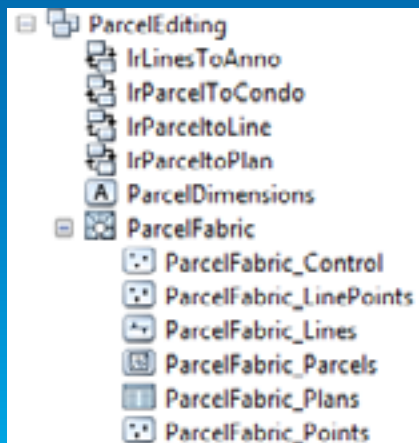
- Built with three components of COTS technology:
 - A parcel fabric Information Model ([Info](#))
 - A map document designed for editing workflows
 - Workflow dialog with specific, goal-driven tasks



Parcel Edit Workflow Models

Parcel Editing

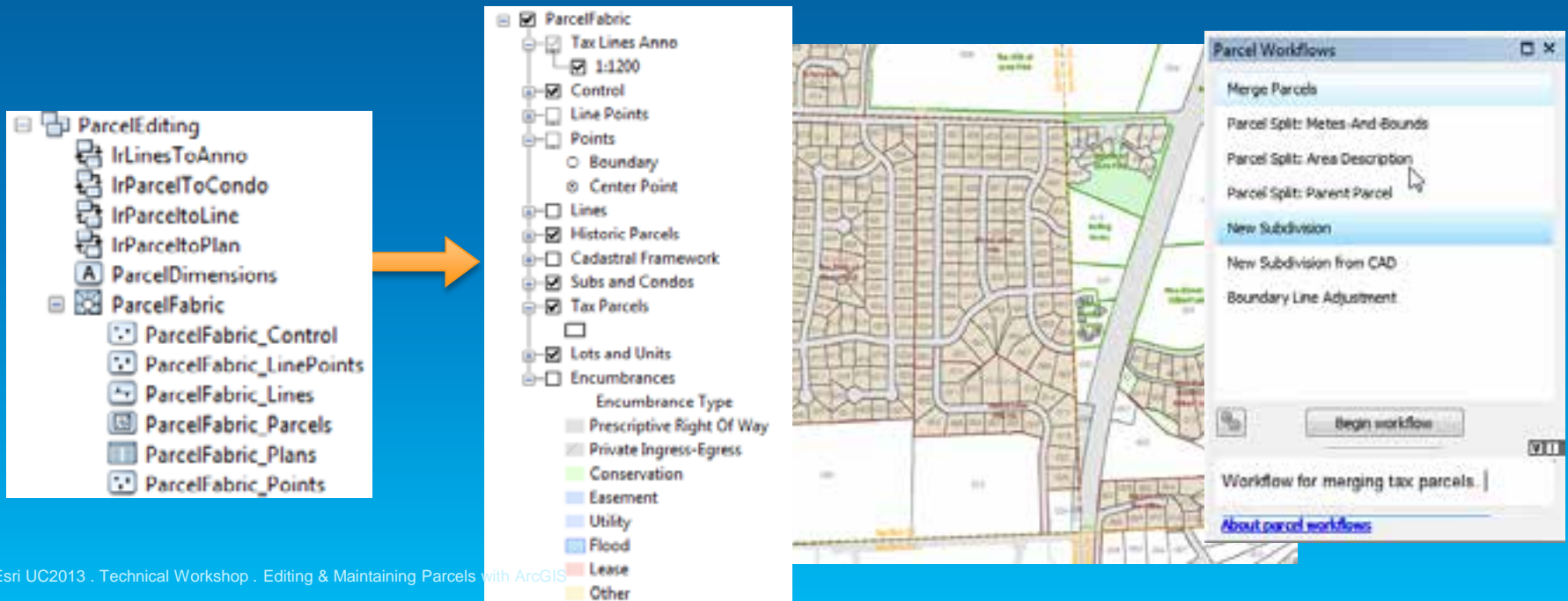
- Built with three components of COTS technology:
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Parcel Edit Workflow Models

Parcel Editing

- Built with three components of COTS technology:
 - A parcel fabric Information Model ([Info](#))
 - A map document designed for editing workflows
 - Workflow dialog with specific, goal-driven tasks



Parcel Edit Workflow Models

Part of a Solution: Land Records Maps and Apps

- Tax Parcel Viewer
 - Access to tax parcel and assessment information
- Parcel Value for iPhone
 - Access to tax parcel and assessment information on iPhone
- Tax Map Book
 - Production of tax map books
- **Tax Parcel Editing**
 - **Parcel editing and maintenance**
 - **Migration of parcel data**
- Value Analysis Dashboard
 - High level view into changes of property assessments

DEMO

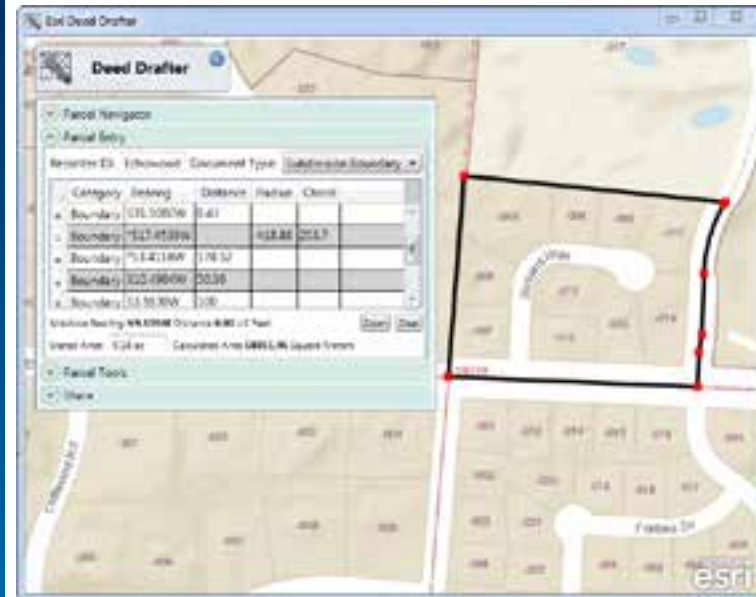
Parcel Split: Metes and Bounds

Jason Camerano



Deed Drafter

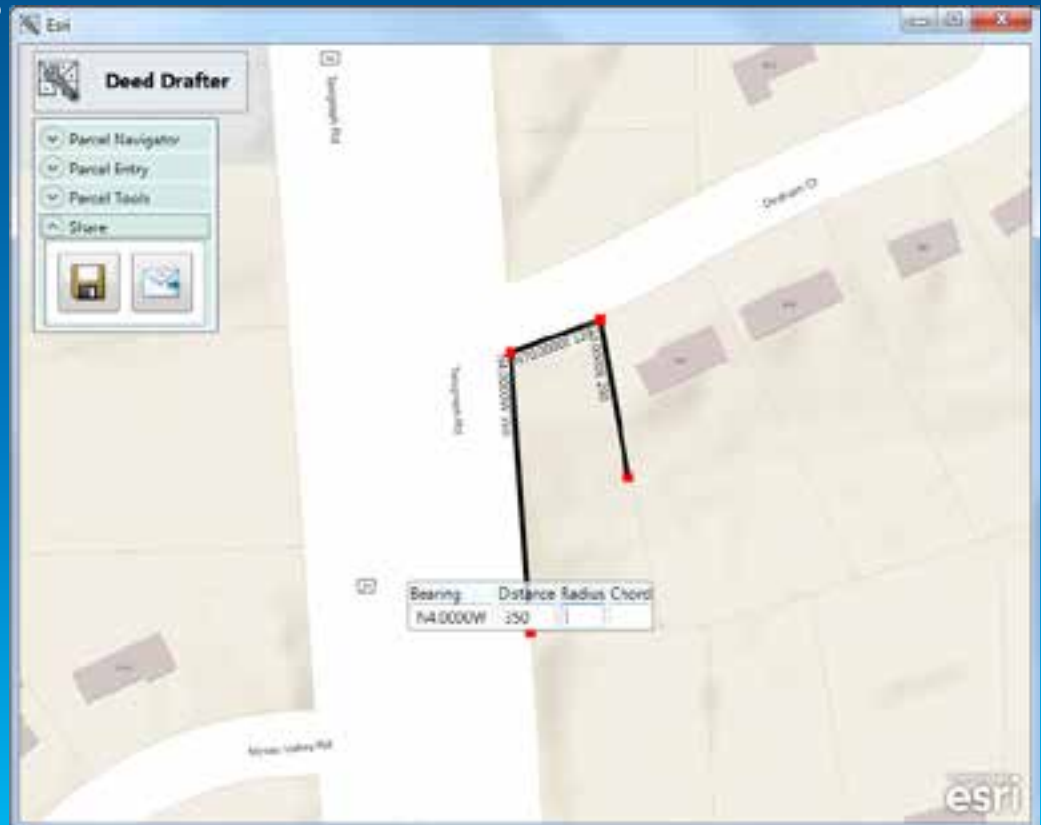
Tim Hodson



Deed Drafter

ArcGIS Runtime

- Light ArcGIS Runtime app (exe file)
- Simple data entry tool for Metes & Bounds
- Read only access to the GDB
- Data is saved to a file



Deed Drafter

Improved Workflow

- Enters a new metes & bounds
- Determine transaction type
- Save and share (cadastral XML)

**Deed
Drafter**



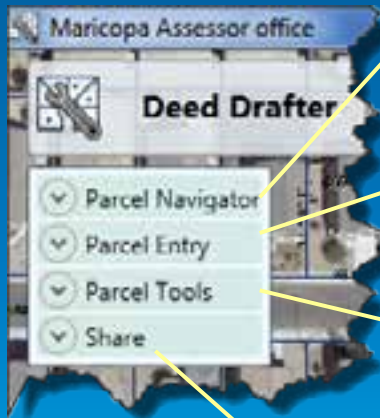
- Consume file
- Perform QA and modify
- Complete workflow and perform the updates

**ArcGIS
Desktop**

Deed Drafter

Functionality

- Parcel Navigator
- Parcel Entry
- Parcel Tools
- Share



Search:

Find current location or search for Parcel ID, Address or Subdivision/Condo Name.

Parcel Entry

Recorder ID: Document Type: DEED: Split

Category	Bearing	Distance	Radius	Chord
Boundary	*S0.0002E	100		
Boundary	N90.0000W	100		
Boundary	N0.0000E	200.1		
Boundary	*			

Misclose Bearing **S0.5227W** Distance **9.19** Feet.

Stated Area: Calculated Area **2223.34** Square Feet



Angle:

Scale:

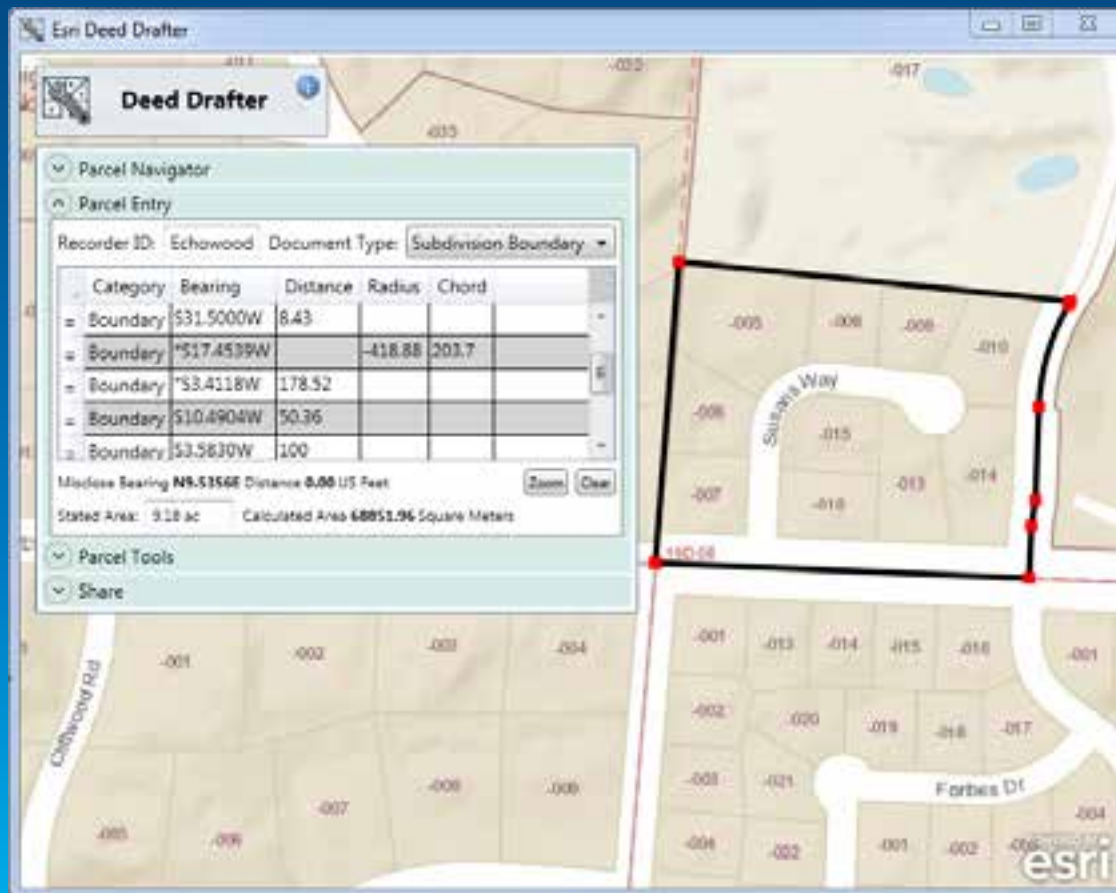
Use right mouse button for tools



Deed Drafter

Release

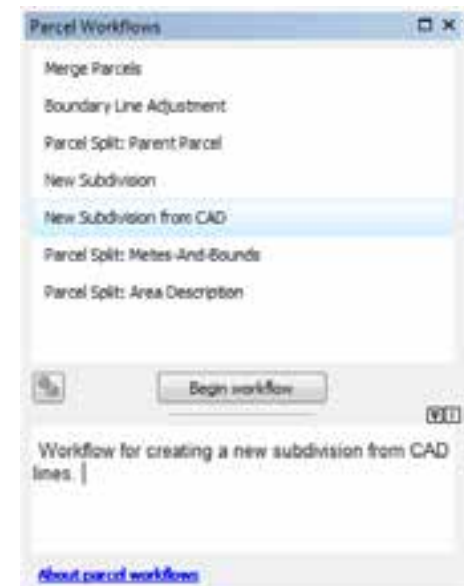
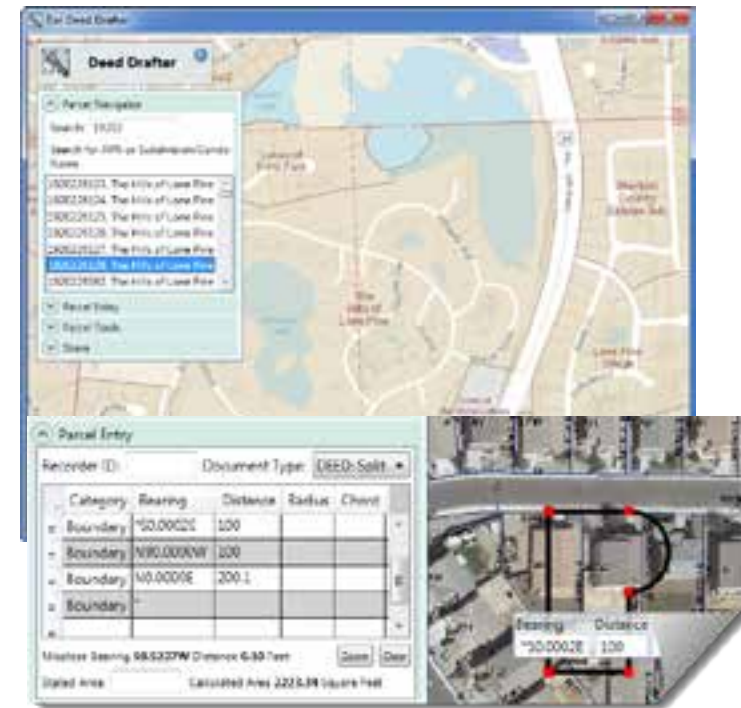
- Releases with 10.2



DEMO

Merge, Working With CAD, Subdivisions & Deed Drafter

Jason Camerano



Community

Resources and Participation

- New Instructor-Lead Training
 - (<http://bit.ly/1btCtdB>)
- New 10.2 Resource Center for Land Records
(<http://bit.ly/15bV3qA>)
- Community Participation: Meet-up, Forum, Ideas

Community

Participation

- **Meet-up** : <http://www.meetup.com/Esri-Land-Records-Meet-Up/>
- (or <http://bit.ly/WeWePq>)
- **Ideas** : <http://ideas.arcgis.com/>
- **Forum** : <http://forums.arcgis.com/forums/44-Land-Records>
- (or <http://bit.ly/11brE0C>)

Community

Meet-up

- **Meet-up** : <http://www.meetup.com/Esri-Land-Records-Meet-Up/>
 - (or <http://bit.ly/WeWePq>)
 -
- **Bi-weekly Virtual Meet-up:**
 - Live Demos
 - Interactive Discussion in the Community
 - Your Ideas
 - Your Support Incidents
 - Meetings Recorded (<http://bit.ly/ZFEVcS>)

Community

Meet-up

- Meet-up : <http://www.meetup.com/Esri-Land-Records-Meet-Up/>

The screenshot shows the 'Land Records Meet Up' group page on Meetup.com. The header features the group name and the Esri logo. A navigation bar includes links for Home, Members, Photos, Pages, Discussions, and More. The main content area is divided into three columns. The left column shows the group's location (Redlands, CA) and a list of group statistics. The middle column displays a welcome message, a 'SUGGEST A NEW MEETUP' button, and tabs for Upcoming, Suggested, Past, and Calendar. The 'Upcoming' tab is selected, showing a meeting titled 'Additional Data Migration Meeting: Q&A' at Esri's Cafe in Redlands, CA, on Tuesday, February 05 at 9:00 AM. The meeting has 19 attendees and 0 comments. The right column, titled 'What's new', lists recent member activity, including new members and RSVPs.

Land Records Meet Up 

Home Members Photos Pages Discussions More  My profile


Redlands, CA
Founded Dec 21, 2012
[About us...](#)

Land Records 110
Professionals 5
Upcoming Meetups 1
Past Meetups 1
Our calendar 

Welcome to the Land Records Meet Up!

 SUGGEST A NEW MEETUP

Upcoming 5 Suggested 1 Past Calendar

Additional Data Migration Meeting: Q&A

Esri's Cafe
300 New York Street, Redlands, CA (map)



Per members requests, this is a followup meeting for members who have additional questions regarding migrating source data to the Local Government Information Model... [LEARN MORE](#)

Hosted by: Amy Bar-Masor (Co-Organizer)

Tue Feb 05
9:00 AM

19 attending
0 comments

What's new

 **NEW MEMBER**
Bob MacCord joined
1m ago 

 **NEW MEMBER**
Chris Liske joined
2h ago 

 **NEW MEMBER**
Chris joined
3h ago 

 **NEW RSVP**
Maya Dauno RSVPed
Yes for Data Reviewer for Tax Parcel Editing
4h ago 

 **NEW MEMBER**
Irene Hwang joined
4h ago 

 **NEW MEMBER**

Community

Ideas

- Ideas : <http://ideas.arcgis.com/>

The screenshot displays the ArcGIS Ideas web application. At the top, the header includes the 'ArcGIS Ideas' logo, a search bar with the text 'parcel' and a dropdown menu showing 'parcel', a 'Login' link, and the Esri logo. The left sidebar contains navigation links for 'Post', 'My ideas', and 'Workspaces'. Below these are 'Categories' (Products, Service, Industry) and 'Links' (ArcGIS Beta Community, ArcGIS Resource Center, Esri Support, Support Services Blog, wiki.GIS.com). The main content area, titled 'Search Results', lists two ideas. The first idea, 'Transform Parcels Snapping', has 10 points and is tagged 'Parcel Editor'. The second idea, 'Parcel Namer - Warn if a user is naming different parcel types', has 20 points and is tagged 'parcel editor, parcel namer'. Both ideas include a 'Promote' button, a 'Demote' button, and a 'Share this idea' section with social media sharing options (Facebook, Twitter, Email, and a generic 'Share' button).

ArcGIS Ideas

Search: parcel

Login

esri

Post

My ideas

Workspaces

Categories

- Products
- Service
- Industry

Links

- ArcGIS Beta Community
- ArcGIS Resource Center
- Esri Support
- Support Services Blog
- wiki.GIS.com

Stay Connected

Search Results

Transform Parcels Snapping

Promote

Demote

10 Points

Tags : Parcel Editor

0 Comments | Posted by : jonmod to ArcGIS Desktop, Local Government 11:11 AM

Share this idea

Facebook Share 0 Twitter Tweet 0 Email 0 Share New

Parcel Namer - Warn if a user is naming different parcel types

Promote

Demote

20 Points

Hello,

please consider adding a warning if a user is trying to name parcels that have a different type. For example If a user selects Tax and Lot parcels, the parcel namer should warn a user that there are multiple parcel types selected, and offer to only name one type or the other.

Tags : parcel editor, parcel namer

0 Comments | Posted by : hyismav to ArcGIS Desktop, Local Government Jan 25, 2013

Community

Forum

- Forum : <http://forums.arcgis.com/forums/44-Land-Records>

The screenshot shows the ArcGIS Resources website. The top navigation bar includes links for Home, Communities, Help, Blog, Forums, and Videos. The 'Forums' section is active, displaying a search bar and a list of forum categories. The 'Land Records' forum is selected, showing a list of threads. The threads are listed with their titles, start dates, and the number of replies and views. The first thread is 'Missing Tab in Parcel Editor Options...' started by Jmccullbg. The second thread is 'Questions about Land Gov Info Model 10.1 SP1' started by dtebo. The third thread is 'Join the Land Records Meetup Group' started by abarmaor. The fourth thread is 'Migrate to parcel fabric now, or wait for 10.1?' started by recurvata. The fifth thread is 'Mine Claims in the Parcel Fabric' started by tomneer.

ArcGIS Resources

Help Sign In English

Home Communities Help Blog Forums Videos

Search the forums

Forums

Forum What's New?

Today's Posts FAQ Forum Actions

Forum ArcGIS User Communities Land Records

Did you post and someone replied with a good answer? Help the community to find these great posts with answers by clicking the green check mark to indicate that it has been answered for you.

Go To Archived Forums

Post New Thread

Threads 1 to 50 of 207 Page 1 of 5 1 2 3 Last

Title / Thread Starter	Replies / Views	Last Post By
Missing Tab in Parcel Editor Options... Started by Jmccullbg, Today 12:12 PM	Replies: 0 Views: 6	Jmccullbg Today, 12:12 PM
Questions about Land Gov Info Model 10.1 SP1 Started by dtebo, 01-22-2013 03:25 PM	Replies: 1 Views: 36	abarmaor Today, 11:33 AM
Join the Land Records Meetup Group Started by abarmaor, 01-25-2013 08:26 AM	Replies: 2 Views: 57	abarmaor Yesterday, 08:22 AM
Migrate to parcel fabric now, or wait for 10.1? Started by recurvata, 01-25-2013 08:49 AM	Replies: 0 Views: 20	recurvata 01-25-2013, 08:49 AM
Mine Claims in the Parcel Fabric Started by tomneer, 01-24-2013 03:23 PM	Replies: 0 Views: 30	tomneer 01-24-2013, 03:23 PM

Additional offerings

- Editing and Maintaining Parcels with ArcGIS
 - Wed 7/10/2013, 01:30 PM - 02:45 PM, Room 10
 - Thu 7/11/2013, 10:15 AM - 11:30 AM, Room 10
- Migrating Data into the Parcel Fabric Solution
 - Thu 7/11/2013, 08:30 AM - 09:45 AM, Room 02
- ArcGIS Deed Drafter: An Introduction
 - Thu 7/11/2013, 11:30 AM - 12:00 PM, Hall H - GIS Discussion Lounge

Thank you...



Please fill out the session evaluation

First Offering ID: 1332

Second Offering ID: 1420

Online – www.esri.com/ucsessionsurveys

Paper – pick up and put in drop box



Understanding our world.