Assessment | Tax | Land Records
Maps and Apps for Local Government
J.D. Overton
Chris Buscaglia
Agenda

• Background and Context

• Land Records Solution Offerings

• What’s Next

• Q&A and Your Feedback
ArcGIS for State and Local Government
Esri solutions for government customers

- Series of useful maps and apps focused on government work
  - Configurable and extensible
  - Freely available and fully supported
- Community of users
  - Best Practices / Implementation Support
- Network of Esri Services and Partner offerings
  - Help users implement, sustain and enhance

…..Available on-premise or in the cloud
ArcGIS for State and Local Government

Our mission is to help you......

• Deliver maps and applications quickly throughout your organization

• Stay current with future releases / avoid legacy technology

• Unclock geospatial platform that can be leveraged by many

• Leverage the collective knowledge of the entire community

• And do this with....less staff, budget, and technical expertise
ArcGIS Platform

Enabling GIS in the Assessor’s Office

- Assessor
- Chief Deputy
- Appraisers
- Mapping
- GIS Professional
- Public / Taxpayer

ArcGIS

Property Characteristics
Land Records Maps and Apps
Collaborate with other stakeholders

Local Government

**Land Records:** Manage an accurate inventory of real property, describe who owns the land, analyze land value and associated improvements, and maximize tax property revenue.

- **My Tax Distribution**
  - Local Government

- **Tax Reverted Property**
  - Local Government

- **Tax Parcel Viewer**
  - Local Government

- **Data Reviewer for Addresses**
  - Local Government

- **Assessment Appeal**
  - Local Government

- **Address Field Verification**
  - Local Government
Data Management

Tax Parcel Editing
ArcMap 10.4 – 10.6 (Standard or Advanced)

Data Reviewer Tax Parcels
ArcMap 10.4 – 10.6 Data Reviewer Ext or Esri Production Mapping Ext

Public Land Survey
ArcMap 10.4 – 10.6 (Standard or Advanced)
Data Management (cont)

Parcel Drafter
- Web AppBuilder
- ArcGIS Pro 1.4 – 2.2
- ArcGIS Online
- ArcGIS Enterprise 10.5 – 10.6 (Standard or Advanced)

Tax Parcel Map Book
- ArcGIS Pro 1.4 – 2.2
- ArcMap 10.4 – 10.6

Community Parcels
- ArcGIS Pro 1.4 – 2.2
- Data Assistant Add-In
- ArcGIS Online
- ArcGIS Enterprise 10.5 – 10.6 (Standard or Advanced)
Address Data Management

ArcMap 10.4 – 10.6 (Standard or Advanced)

Data Reviewer Addresses

ArcMap 10.4 – 10.6 Data Reviewer Ext or Production Mapping

Community Addresses

ArcGIS Online

ArcGIS Enterprise 10.5 – 10.6 (Standard or Advanced)

Address Field Verification

Collector for ArcGIS
Constituent Engagement

Tax Parcel Viewer
My Tax Distribution
Residential Comp Finder
Floodplain Inquiry

Public Notification
School Locator

Web AppBuilder
Web AppBuilder
Web AppBuilder
Information Lookup
Web AppBuilder
Web AppBuilder
Constituent Engagement – Tax Reverted Property

- Tax Reverted Property
  - Collector for ArcGIS
  - Web AppBuilder

- Tax Sale

- Tax Reverted Property Dashboard

- Operations Dashboard

- ArcGIS Pro 1.4 – 2.2
- ArcGIS Online
- ArcGIS Enterprise 10.5 – 10.6 (Standard or Advanced)
Community Engagement - Crowdsourcing

Property Tax Assessment Appeal

- ArcGIS Pro 2.0 – 2.2
- Survey123
- ArcGIS Online
- ArcGIS Enterprise 10.6.1 (Standard or Advanced) With managed DataStore
- Microsoft Internet Information Services (IIS) 7.0 or higher
- 10.4 for Server, ArcGIS Enterprise 10.5/10.6, or ArcGIS Online

Photo Survey
Community Engagement - Crowdsource

Address Crowdsource

ArcGIS Pro 1.4 – 2.2

GeoForm

ArcGIS Online

ArcGIS Enterprise 10.5 – 10.6 (Standard or Advanced)
Decision Support – Operational Awareness

Value Analysis Dashboard

- ArcGIS Pro 1.4 – 2.2
- Operations Dashboard

or

- ArcGIS Online
- ArcGIS Enterprise 10.6.1 (Standard or Advanced)
Solutions Deployment Tool
ArcGIS Pro Add-in

• Help users:
  • Discover solution offerings
  • Deploy services, maps, and configurable apps
  • Configure solution to meet specific needs in their organization
    • Add fields
    • Modify field domains
  • Load data (if required)

http://solutions.arcgis.com/shared/help/deployment-tool/
Deploying the ArcGIS Solutions

Step 1: Configure ArcGIS Organization
- Setup organization
- Create central groups
- Register your content
- Create functional groups
- Organize user community

Step 2: Deploy ArcGIS Solution(s)
- Log in to ArcGIS Organization
- Identify configurations
- Select appropriate solution(s)
- Deploy solution

Step 3: Configure ArcGIS Solution(s)
- Configure and brand application(s)
- Modify maps and layers
- Refine layers and tables

Step 4: Load your Data
- Extract, transform, load
- Calculate values
- Socialize with stakeholders
- Share with users
Overview

Parcel Drafter is a configuration of Web AppBuilder for ArcGIS that can be used by mapping technicians to enter metes-and-bounds descriptions and check for closure errors. Parcel Drafter is typically used by Assessing Offices and Register of Deeds to verify deeds and recorded documents, but can also be used by surveyors and title companies to verify survey information prior to submission.

Parcel information compiled with the Parcel Drafter application can be integrated into a larger land records workflow that produces a complete inventory of tax parcels, subdivisions, lots and related encumbrances.

You may be interested in

ArcGIS for Local Government includes several related maps and apps that also can be configured in your organization:

- Tax Parcel Editing
- Data Reviewer for Tax Parcels
- Tax Map Book
- Tax Parcel Viewer
GIS & CAMA Integration

Extract Transform and Load - ETL

Property Characteristics
Value and Tax Information
Sales, Foreclosures, Appeals

CAMA/Assessment / Tax Systems
Python Scripts
Produce New Layers

Tax Parcel Geometry w/ Property Characteristics
- Sales
- Foreclosures
- Appeals
- Assessment Neighborhoods

GIS Portal/Cloud

Parcel Editing Solution

Land Records Services
- Tax Parcels
- Sales
- Foreclosures
- Appeals
- Assessment Neighborhoods
- Tax Reverted Property
- Historic Parcels
- Parcel Basemaps
- Public Notification
- Others...

Information Products
- Maps
- Apps
- .....
Community Parcels
Web GIS Solution for Parcel Aggregation

Authoritative Parcel Data + Community Parcel layer = Information Products

- Contributor Tools
- Aggregation Model

Information Products:
- Revenue
- Audit
- Health
- Transportation
- Econ/Dev
- Environment
...
Show Me!
Land Records Maps and Apps
The Community
It’s not just about the technology

Destination where government’s can collaborate

Place where developers can contribute too

Ongoing dialog to share success stories and learn from others
Land Records Community
It’s not just about the technology

Destination where Parcel Editor’s can learn and collaborate

Place to learn about Mapping, Visualization, and Analysis
It’s a Process

Continuously Evolving Solution Offering

• June 2018
  - Property Condition Survey, a configuration of Photo Survey to publish street-level photo collections, conduct property surveys, and automate the classification of property condition using artificial intelligence.

• April 2018
  - Residential Comp Finder now leverages Web AppBuilder for ArcGIS.
  - Value Analysis Dashboard application that leverages the new Operations Dashboard for ArcGIS.

• January 2018
  - Public Notification solution that leverages Web AppBuilder for ArcGIS.
  - New releases of the Attribute Assistant and other add-ins.

• December 2017
  - Enhancements to Parcel Drafter and Photo Survey.
  - School Locator can now be automatically deployed with the ArcGIS Solutions Deployment Tool.

• September 2017
  - Parcel Drafter can be automatically deployed with the ArcGIS Solutions Deployment Tool.
Thank you!

- http://solutions.arcgis.com
- http://meetup.com/ArcGIS-for-Local-Government/
- https://www.meetup.com/ Assessor-ESRI-Meetup/
- @ArcGISLocalGov
- @ArcGISStateGov
- http://esri.github.com