Bringing ArcGIS Server to the Field

City of Woodland, CA
Technology Services
Team

J Kimura, Senior Application Analyst
Danny Hewitt, GIS Analyst
Miguel Garcia, GIS Technician
Scott Grasso, Application Analyst
Woodland, CA

- Settled in 1853
- Incorporated 1871
- Area 15 Sq. Mi.
- Population 55,468
- Home to Sacramento Valley Scottish Games
- Notable natives: Charles Schwab, Dustin Pedroia and Thomas Haden Church
Maintained GIS Layers

- Full Service City!
- Sewer, Storm, Water, Electrical, Parks, Trees, Waste Water, Signs, Parks, etc.
- Parcels, Zoning, Land Use, Police & Fire, etc.
- Total of 280+ layers & 50 related Object tables residing in an ArcSDE geodatabase (10.1)
ArcGIS Server

- Cityworks
  - customer since 2002
- Geocortex Essentials
  - customer since 2010
- ArcGIS for Windows Mobile
  - using since 2012
Cityworks - Past

- Paper, paper, paper...
- Standalone
  - Pre-GIS
- Cityworks Anywhere
  - ArcEngine, MXD based
Cityworks - Present

- GIS, web based
- Real time attribute edits
- Redlines
- Inspections
- Embedded Crystal Reports
Track Work History & Inventory
Redlines & Real-Time Attribute Edits
Cityworks - Future

- Complete rollout of AMS to all divisions
- Create a robust PM workflow
- Add Citizen engagement
- Improve user experience through customization
  - Primarily XML & JavaScript
- Add other divisions
  - Facilities, Water Treatment
Prior to Geocortex

- Other vendors for parcel data
- CAD owner of record of parcel data
- Paper maps
- Default Esri maps in Server 9.3
  - Little customization
- Limited to WebADF
  - On it’s way out
Geocortex - Present

- One site with different viewers
  - Silverlight (office staff)
  - HTML5 (tablets)
- GIS owner of record for parcel data
- Utilities GIS viewer
  - For those not needing the functionality found in Cityworks
Parcel Viewer
Parcel Viewer - iPad
Geocortex - Future

- Web editing
  - Spatial & attribute edits
- Add more customized sites
- Integration with other systems
  - Cityworks & CCTV program
  - Permitting/Licensing
  - Utility Billing
  - Public Safety
Field Data Collection - Past

- Trimble TCS2
  - Survey grade equipment
  - Lots of overhead time
- ArcPad
  - Seldom used, too much overhead
ArcGIS for Windows Mobile - Present

- Trimble GeoXH 6000
- Real time GPS corrections
- Using to gather new features only
- Sync with SDE database
  - Either Default or a QC Version
ArcGIS for Windows Mobile - Setup
ArcGIS for Windows Mobile - Field
ArcGIS for Windows Mobile - Future

- Collect data in our local projection
  - Avoids having to re-project data
  - Virtually eliminates any post-processing
- Improve data already in SDE
- Upgrade to Trimble TSC3
  - Real-time syncing with Trimble AccessSync
Other Future Applications

- Police & Fire RMS
- AVL
- Emergency Operations
- Building inspections
- Public facing
- ArcGIS Online
Q & A

Questions?

Thank you for your time!

Contact:

daniel.hewitt@cityofwoodland.org
j.kimura@cityofwoodland.org
530-661-5838