Town of Southington, CT
GIS
Engineering - Public Works - WPCA

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Southington GIS Coordinator
Town of Southington, CT
Presentation Outline

- Past, Present and Future
- GIS Data
- GIS Infrastructure
- Utilization of GIS
- Databases
- Good Times and Bad Times
- Examples
Town of Southington, CT
GIS Data

- 984 MB of total GIS features
- 247 MB Topic of Discussion – 25%

** STORM CENTERLINE **

<table>
<thead>
<tr>
<th>Storm</th>
<th>Sanitary</th>
<th>Public Works</th>
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<tbody>
<tr>
<td>Catch basins</td>
<td>Sanitary Lines</td>
<td>Parks</td>
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<tr>
<td>Culverts</td>
<td>Manholes</td>
<td>Trails</td>
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<tr>
<td>Junctions</td>
<td>Pump Stations</td>
<td>Street Signs</td>
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<tr>
<td>Manholes</td>
<td>Structures</td>
<td>Light Poles</td>
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<tr>
<td>Outfalls</td>
<td>Scan</td>
<td>Routes</td>
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<tr>
<td>System Lines</td>
<td>Locations</td>
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** SWD CENTERLINE **

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<th>SWD</th>
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<tbody>
<tr>
<td>Laterals</td>
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<tr>
<td>Mains</td>
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<tr>
<td>Casings</td>
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<td>Hydrants</td>
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<tr>
<td>Meters</td>
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** STREET CENTERLINE **
Town of Southington, CT
Distribution of GIS data

- Statics Maps
  - Storm, Sanitary and Water Utility Mapping
  - Map Books, Wall maps

- Arc Suites
  - License dependent on Department

- Public GIS Parcel Viewer

- Internal GIS Parcel Viewer
  - All Dept
  - Old / New

- New Hardware - Internal Website
  - Arc Server 10
  - Processors - Dual Quad core - each core 2.4 GHz
  - 64 bit OS windows 2008 R2 standard
  - SQL-Server 2008
  - GIS Main Hub
Town of Southington, CT

Distribution of GIS data
Town of Southington, CT
Utilization of GIS

- Statics Maps
  - Display Purposes, Field Visits, Reference
- Arc Readers, Viewers and Editors
  - Specific to users
  - Template requirement – Add Project Specific text
- Internal Viewer Software Application
  - Fast, Useful, some maintenance, did its job
  - Multi-User Platform
  - Outdated
- Public Viewer
  - View layers in the field and internally - Browser
  - Need for wireless service – Motorola Canopy Platform
  - Limitations
- New Server
  - Currently accessed throughout Town Hall
  - Future plans - virtualized and accessed Town Wide
- Mobile Technology
  - Live editable data
  - ArcSDE – central location for data editing and accessibility
Town of Southington, CT
Enhancing Internal GIS

- Plethora of Software applications
  - Each serving a purpose
  - Spatial Relationship
- Laserfiche
  - Document Management
- Pavement Management
  - Segmented centerline
  - Not Implemented
- Tasks
  - Scanning, Importing of Mylar and paper maps
  - Verification and Updating of GIS features
  - Videos
  - Accessibility
• Convert VHS to Digital format for editing.
  • Chop the videos between line segments
  • Digital format (mpg or wmv) conversion to Flash videos

• Verification
  • Link videos to corresponding sewer line
    • GIS ID & ENG ID
  • Use recent scans to verify existing infrastructure
    • Storm and Sewer

• Database Creation
  • Manage new and future attribute information

• New Data
  • Sub-Divisions
  • Scan locations

• 95.7 GB of videos
  • Combination of mpg, wmv, flv, avi
  • 2,927 files – 1460 are final flash videos
  • On going
• Consider all municipal entities
  • What works for one dept may dramatically affect the other

• Engineering Dept
  • Streets and Addressing
  • Centerline

• Various Sources
  • Which is Authoritative?
  • Committee formed

• Decisions driven by GIS
  • Benefits all
• Relational Databases and ArcSDE
  • Redundancy of Data
  • Ease of updating Spatial and Non-spatial files

• Automation
  • 99% Maintenance free

• Mobile Solutions
  • In Development
  • Research – Define your needs
Thank you for your time.