Coffee, Donuts and GIS
User 2 User Meeting

Scott Roberts – South Windsor Director

April 2011
Introductions

Scott Roberts – Director of Information Technology Serving with the Town of South Windsor since 2005. Project Manager for Fuss & O’Neill Inc performing regional GIS consulting from 1994 – 2005. Roberts is a member of various State of Connecticut Councils and Committees are has been published in Government Technology Magazine
Missing the Path?
Audience Survey

• Show of Hands
  – GIS Industry?
  – IT Service?
  – Both?

• GIS vs. CAD
• Bing vs. Google Maps
• GIS vs. GPS
• GIS vs. IT
Challenges

- Understanding each other terminology, acronyms, policy and missions.
Policies

• Windows Security
  – Administrative User
  – Power User
  – User

• File Access
  – Network Folders

• Database Security
  – Permissions
  – User & Roles
  – Windows / Database Authentication

• FOI & Compliance Rules
Missions

• Secure Access
  – Storage (Read, Read & Write, Modify)
  – Internet

• Business Continuity
  – Up Time
  – Back Ups & Back Up Window
  – Archival
  – Redundancy

• Network / System
  – Support / Maintenance

• Entire Town Staff (Priorities)
  – EMS, Executives, Staff
Integration of IT and GIS

- Complex Picture
- Many Options
- Various Path
- Great Potential
Operating Systems

• Windows XP
  – Standard but ending 2014
• Windows 2003 Server
• Windows 7
  – New Interface / Not trained
  – 32 Bit vs. 64 Bit processors
• Windows 2008 Server
• ESRI Software
  – ArcGIS 9.3.1
  – ArcGIS 10 SP1 (Windows XP SP3)
Storage

- **Network Folders**
  - File Storage GIS requires 10 times more space than normal departments
  - Need Read, Write and Modify access
    - File Geodatabases
    - Projects

- **ArcGIS Server Basic**

- **Images**
  - SID Files \(~3.2\) GB
  - GeoTiff’s \(~7.0\) GB
  - Image Server
GIS Servers

• Most Departments Might Have One
  – Assessors CAMA
  – Town Clerks COTTS
  – Finance Office MUNIS

• GIS Group
  – ArcGIS Basic (SQL Server, Postgres, Oracle)
  – ArcGIS Standard/Advanced
  – ArcGIS Image Server
  – Web Server (IIS/Apache)
  – 3rd Party Servers (Freance)
    • ArcGIS 9.3.1 vs. ArcGIS 10
Government 2.0 / Web Services

- **Cloud Computing**
  - Infrastructure Services (Amazon)
  - Platform Services
  - Application Services (ArcGIS)
    - Access (Bandwidth)
    - Hybrid Models (Emergency/Mission Critical)
  - Security

- **Standards**

- **Browsers** (IE, Chrome, Firefox)

- **Plug-Ins** (Silverlight & Flash)
Hardware Options

• Physical Servers
  – Rack Servers
  – Blade Server

• Storage Servers
  – Storage Arrays
  – Storage Area Networks (SAN’s)
    • Shared Storage
  – Network Attached Storage (NAS’s)

• Data Storage Communication Standard
  – iSCSI ($$) vs. Fiber Channel ($$$$$)
Hardware Options (cont.)

- Virtualization
  - Servers
  - Desktops
    - Thin Clients
    - Remote Access
    - IPads
- Software
  - VMware Workstation

- Flexibility
  - Prototyping / Testing
  - Lower Cost Upgrades / Maintain Older
Training Needs

- Most Basic Users
  - Word Processor, Email, Spreadsheet
  - Department System (CAMA, MUNIS, ETC)

- Next Step
  - AutoCAD (Public Works / Engineering)

- Highest Needs
  - Information Technology
  - GIS
    - Geodatabase Building/Design
    - Server (Managing, Configuration & Tuning)
    - Desktop (I, II & III)
Collaboration / Communication

- Team Work
- Understanding
- Communication
- Planning
- Notice
- Meetings
Questions / Discussion