

Coffee, Donuts and GIS

User 2 User Meeting

Scott Roberts – South Windsor Director



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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 and 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**

Policies

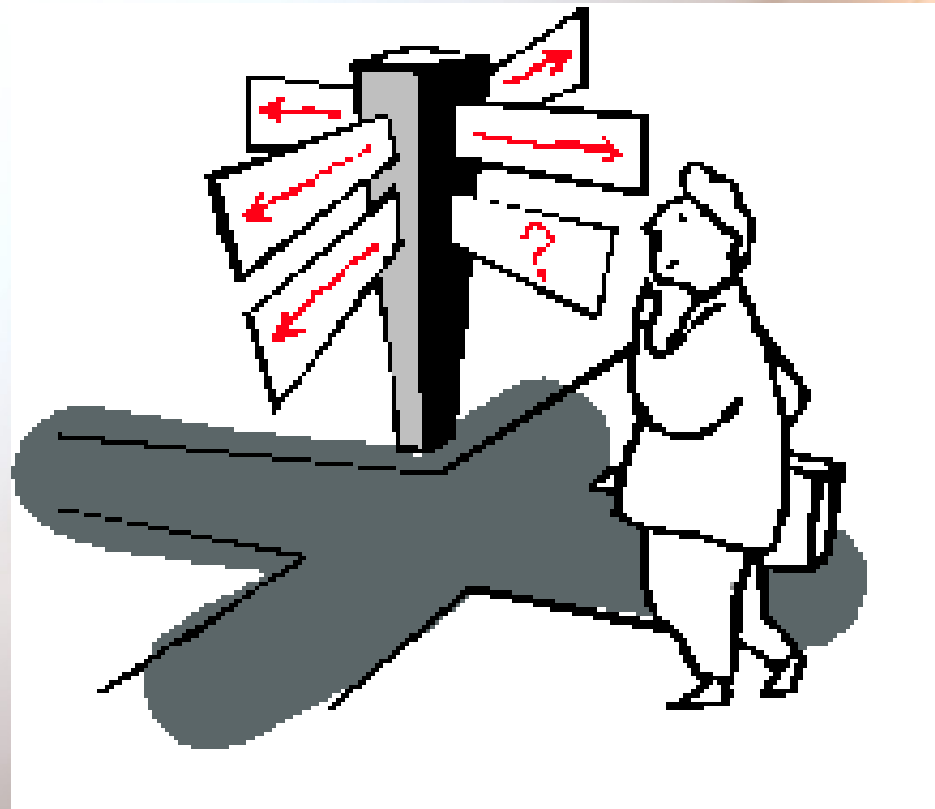
- **Windows Security**
 - Administrative User
 - Power User
 - User
- **File Access**
 - Network Folders
- **Database Security**
 - Permissions
 - User & Roles
 - Windows / Database Authentication
- **FOI & Compliance Rules**

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 (Freeance)
 - 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

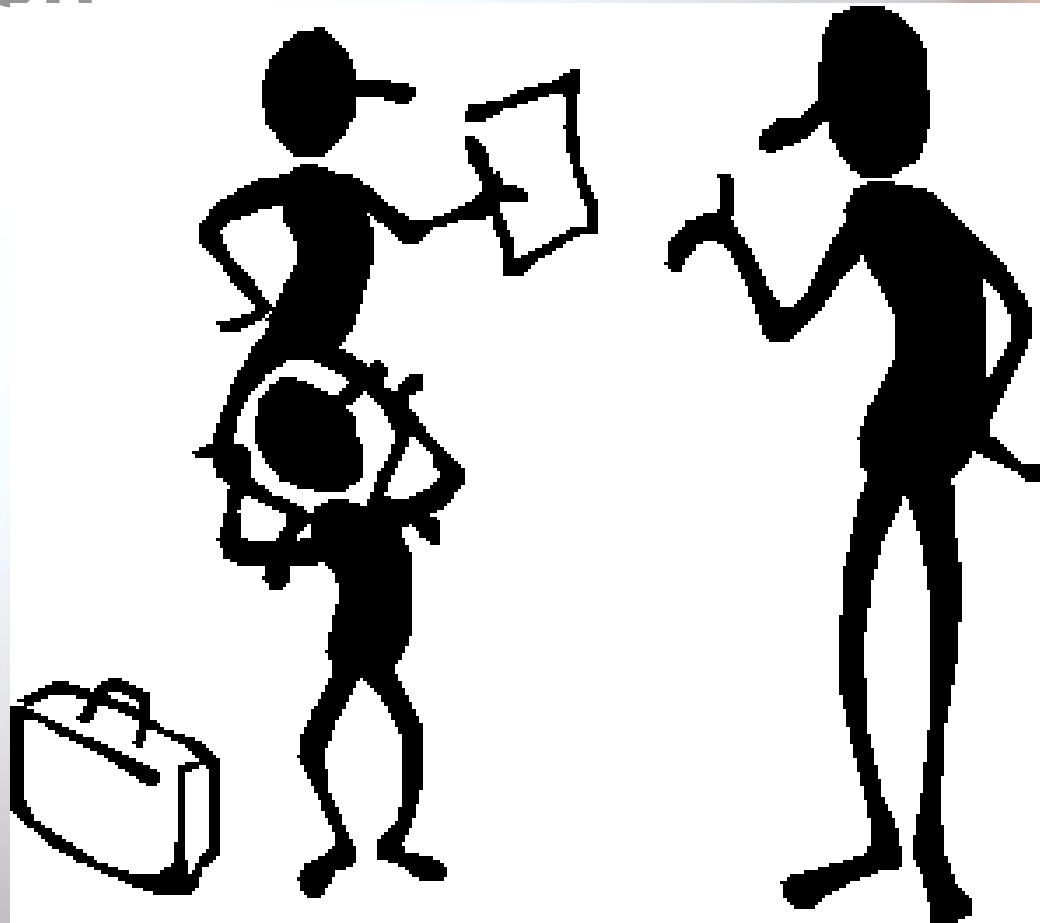
- Lower Cost Upgrades / Maintain Older

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