BOWIE SENIORS COMPUTER CLUB

Meeting Minutes for May 5, 2016

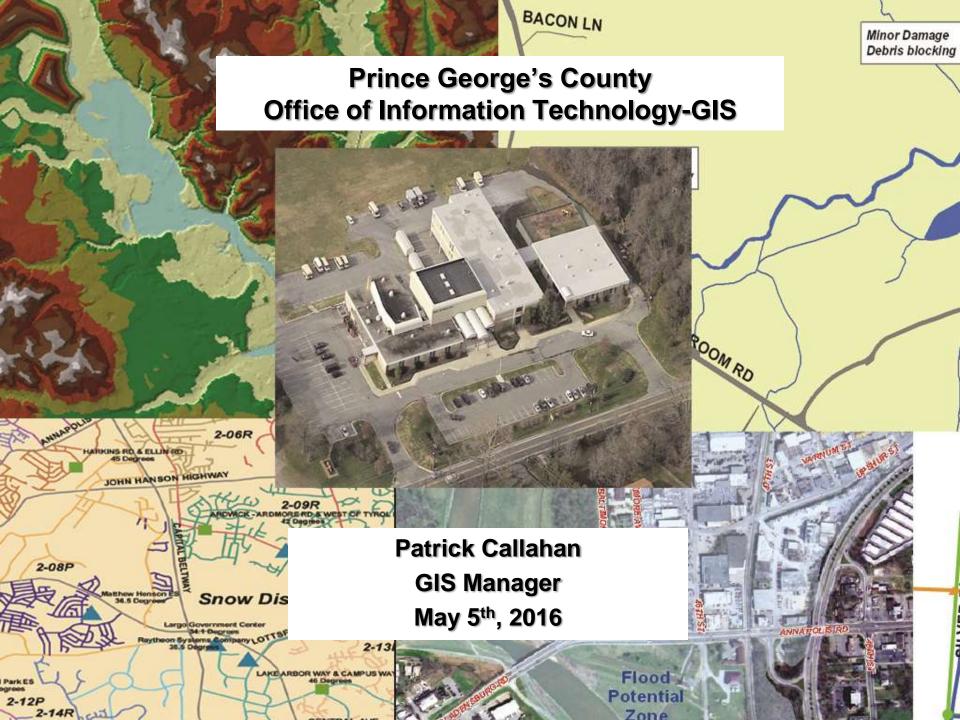
Through the efforts of Program Chairman Dan Lee, we had Patrick T. Callahan, GIS Manager of the Prince George's County Office of Information Technology as our guest speaker for this meeting. Mr. Callahan's presentation was about Prince George's County's Geographical Information System.

A geographic information system (GIS) is a computer system for capturing, storing, checking, and displaying data related to positions on Earth's surface. These programs can show many different kinds of data on one map (such as: emergency data, environmental data, demographic data, archeological data, etc). This enables government organizations all levels to more easily see, analyze, and understand patterns and relationships. Prince George's County's GIS has been developed with a special emphasis on emergency response capabilties.

Copies of Mr. Callahan's slides are attached.

The meeting included an interesting question and answer session. It was very informative and well-attended meeting.

Bill Long, Secretary



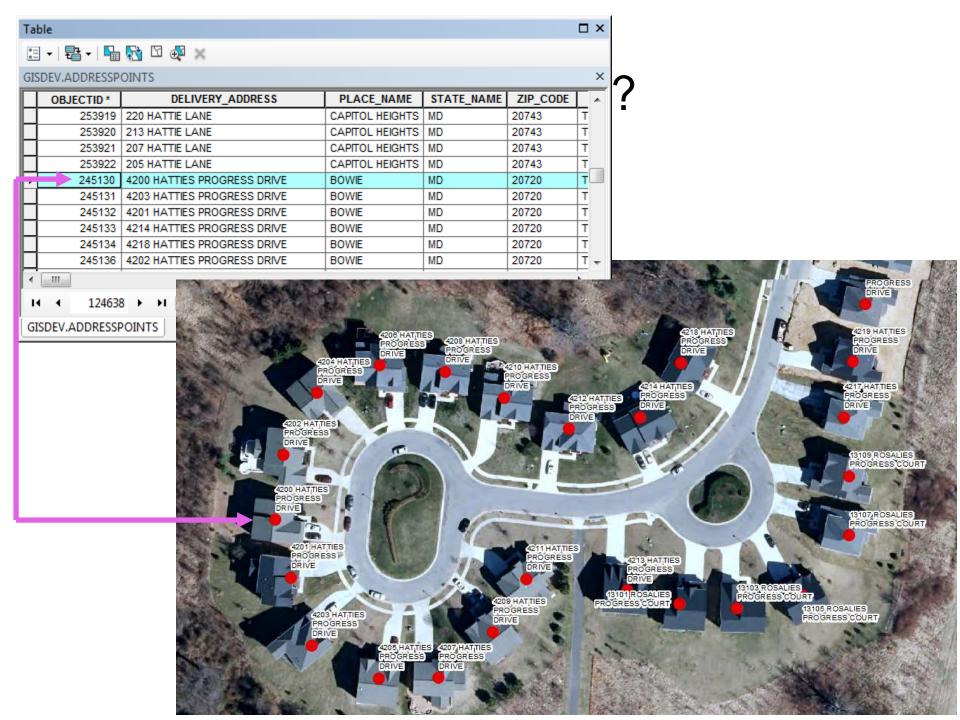


What is GIS?

Prince George's County,

Maryland

Geographic Information Systems (GIS) is a technological field that incorporates geographical features with tabular data in order to map, analyze, and assess real-world problems. The key word to this technology is Geography this means that some portion of the data is spatial, or data that is in some way referenced to locations on the earth. Coupled with this data is tabular data known as attribute data. Attribute data can be defined as additional information about each of the spatial features.

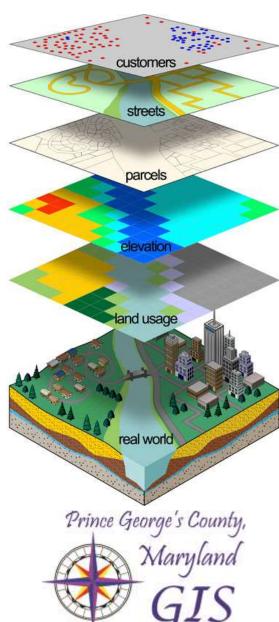




So, What is GIS?

Simple Terms:

- Links databases and maps
- Manages information about places
- Helps answer questions such as:
 - · Where is it?
 - What else is nearby?
 - Where is the highest concentration of 'X'?
 - Where can I find things with characteristic 'Y'?
 - Where is the closest 'Z' to my location?





Why use GIS in Local Government?

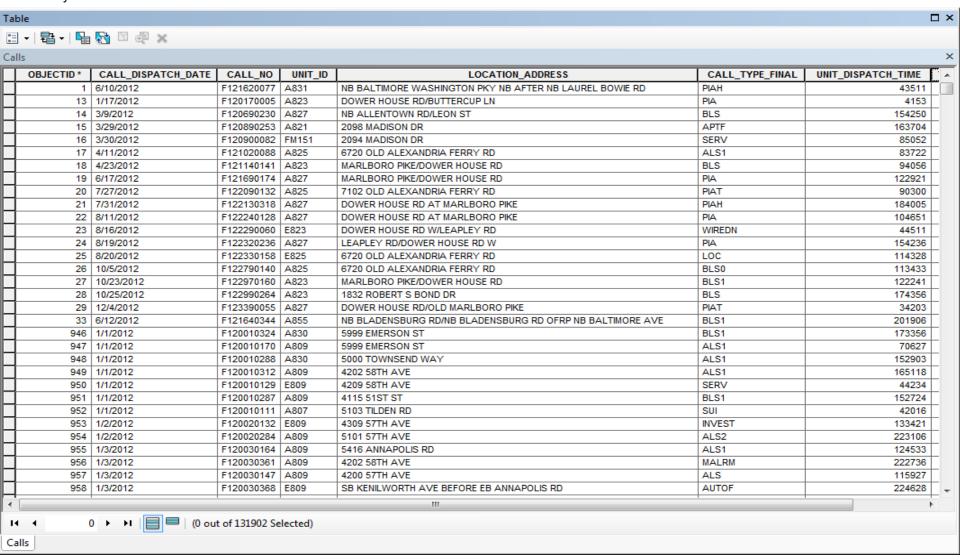
Rushern L. Baker, III County Executive

- 80% of Local government activities estimated to be geographically based
 - plats, zoning, public works (streets, water supply, sewers),
 garbage collection, land ownership and valuation, public safety
 (fire and police)
- A GIS provides an efficient method for the maintenance and storage of maps.
- Patterns, trends and relationships are identified and spatially analyzed.





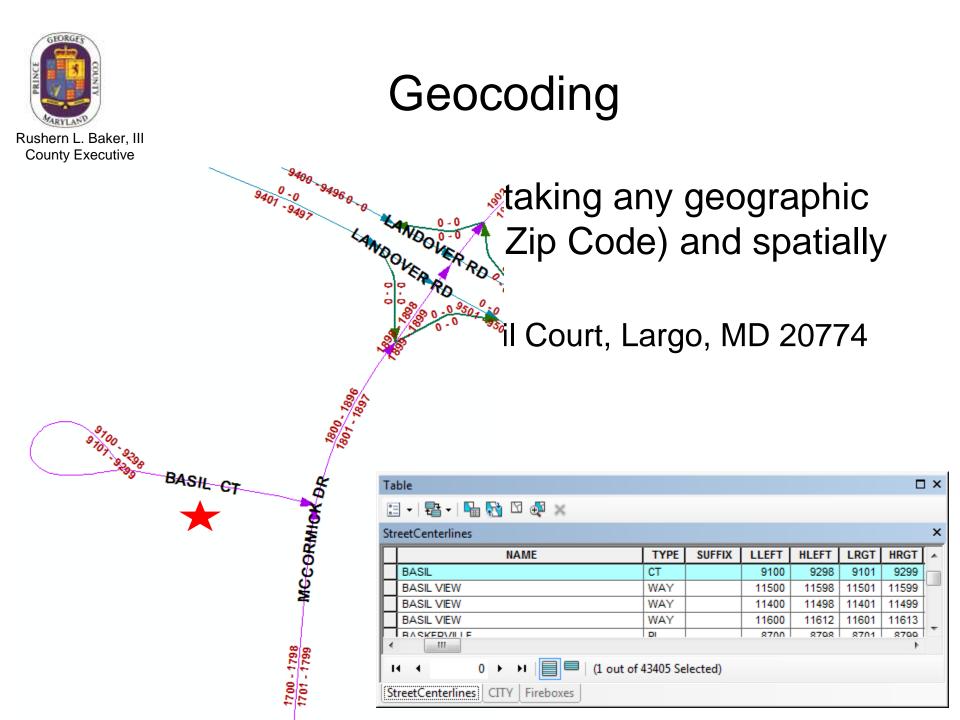
Rushern L. Baker, III County Executive





1. Convert that text file into a spatial feature class How? Geocoding...

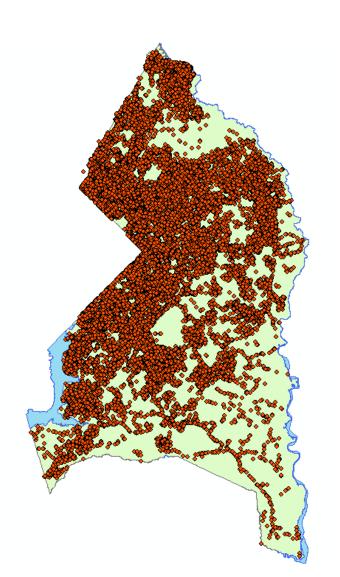






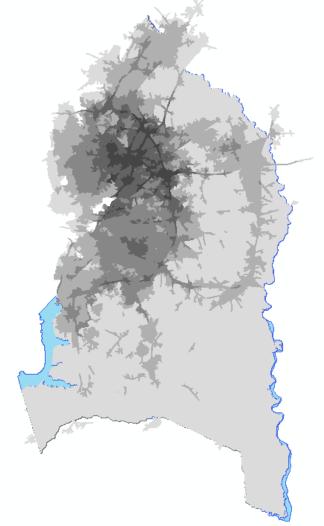
Convert that text file into a spatial feature class

2. Density (Hotspot) Map





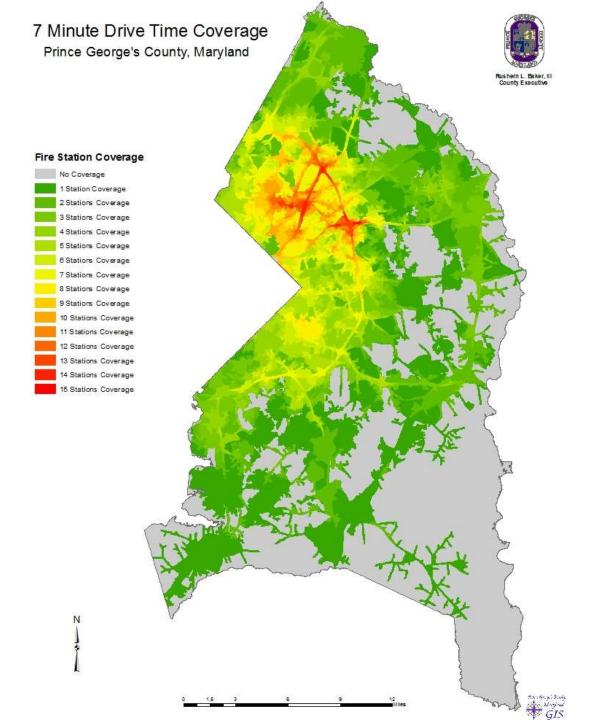
- 1. Convert that text file into a spatial feature class
- 2. Density (Hotspot) Map





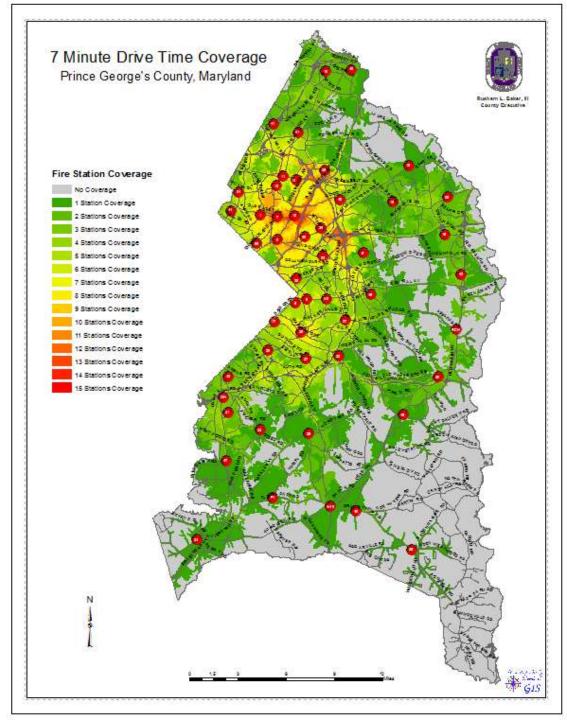
Fire Department Coverage:

- 7 minute drive time from each fire station
- Gray No coverage
- Green 1 Station
- Red 15 Stations





Firebox	Population	Number of Calls
0101	1309	227
0102	3279	361
0103	3080	332
0104	466	86
0105	1740	238
0106	748	50
0107	913	426
0108	321	177
0109	1064	77
0110	0	104
0111	1762	135
0112	48	126
0113	427	23
0114	269	162
0115	1568	303
0116	1143	124
0117	823	58
0117	0	0
0118	814	52
0119	572	22
0120	168	12
0121	627	59
0122	1140	391
0123	827	57
0501	759	184
0502	485	148
0503	501	220
0504	398	73
0505	692	101
0506	86	95
0507	0	54
0508	1281	120
0509	0	7
0509	25	0
0510	78	0
0510	0	89
0510	0	0
0511	1701	395
0601	1134	143
0602	1901	187





- County has disseminated GIS Enterprise structure
 - 4 person OIT-GIS team (Core GIS)
 - GIS Manager
 - 2 GIS Web and Applications Developers
 - GIS Database Administrator
 - Agency GIS (Specialty GIS)
 - Users in the different agencies use GIS as a tool to help them
 in their core business
 - GIS Specialists in their field
 - 400 GIS users in the agencies
 - MNCPPC has it's own GIS department and system, which is separate from OIT-GIS









Core GIS

- Central repository for all GIS data
- Manage the GIS Enterprise infrastructure
- Point of contact for all GIS related projects
 - County agency projects
 - Regional projects (INDEX, Geospatial Data Exchange, MEMA incident exchange, ICBN)
- Provide new GIS technology solutions
 - Map and web services
 - Mobile applications
 - GPS technology





Core GIS

- Provide GIS support to agencies without GIS trained staff
 - 75 map projects with over 300 maps a year
 - 18 Map Applications (Internal/External users)
 - Data analysis
 - Fire/EMS run time maps
 - Low to moderate income level location analysis
 - Foreclosure rate maps
 - Proposed and Approved CIP Budget Books
 - Homeland Security/Public Safety
 - GIS is a core product of the 911 system
 - EOC support during emergencies





Core GIS

- Point of Contact for Regional and Statewide Events
 - Maryland State Geographic Information Committee (MSGIC): Executive Committee Member
 - MWCOG CIO Committee: GIS Subcommittee
 Executive Member
 - INDEX and Geospatial Data Exchange Executive member
 - FEMA Region III Regional Interagency Steering Committee(RISC): GIS Subcommittee member











Recent GIS Projects

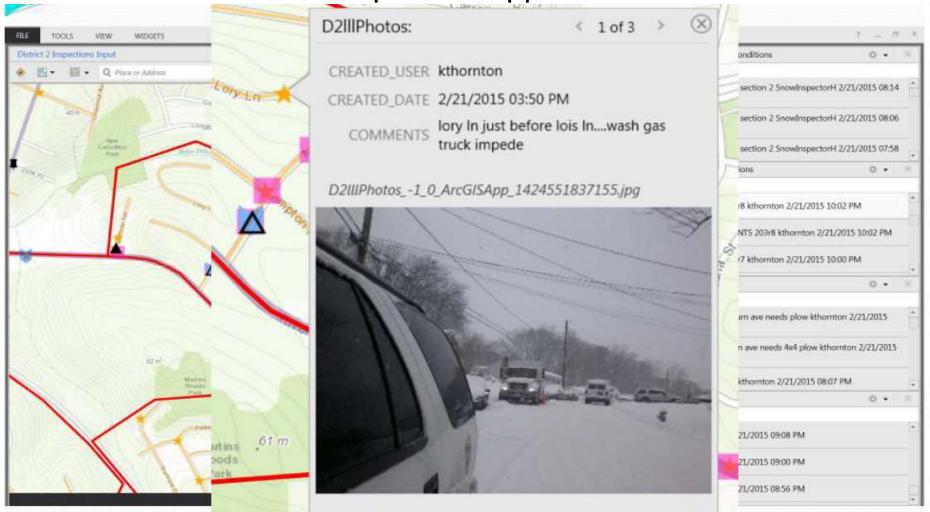
Fire/EMS: Adopt A Neighborhood Program





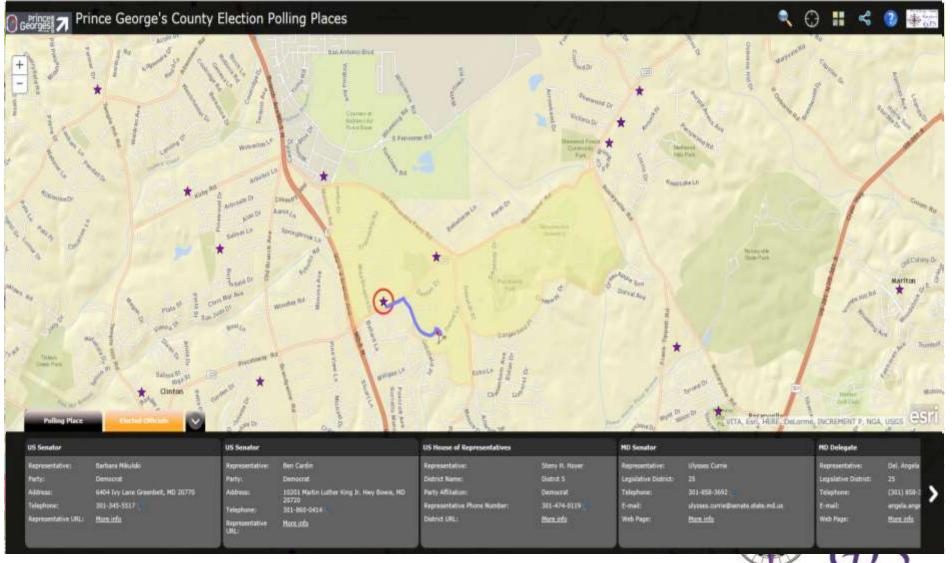
Recent GIS Projects

DPWT: Snow Plow Inspection Application



GEORGES

Recent GIS Projects





Current GIS Projects

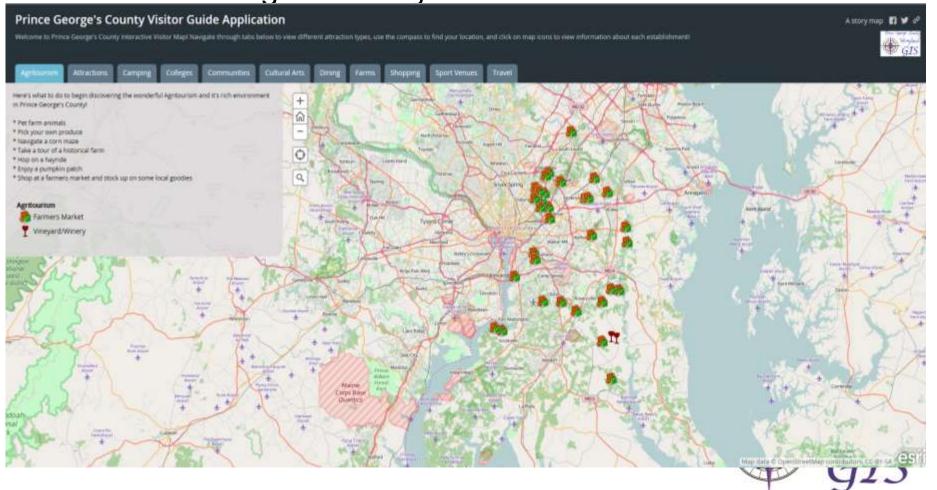
- National Pollutant Discharge Elimination System (NPDES)
 - Permit for discharging of "Pollutants" into waters of the United States
 - Monitoring and Inspection system for Stormwater Management
 - GIS Based reporting system
- Transforming Neighborhood Initiative (TNI): Story Map
 - Allows the public to see and learn more of the 6 TNI locations the County Executive has chosen to focus Government resources





Current GIS Projects

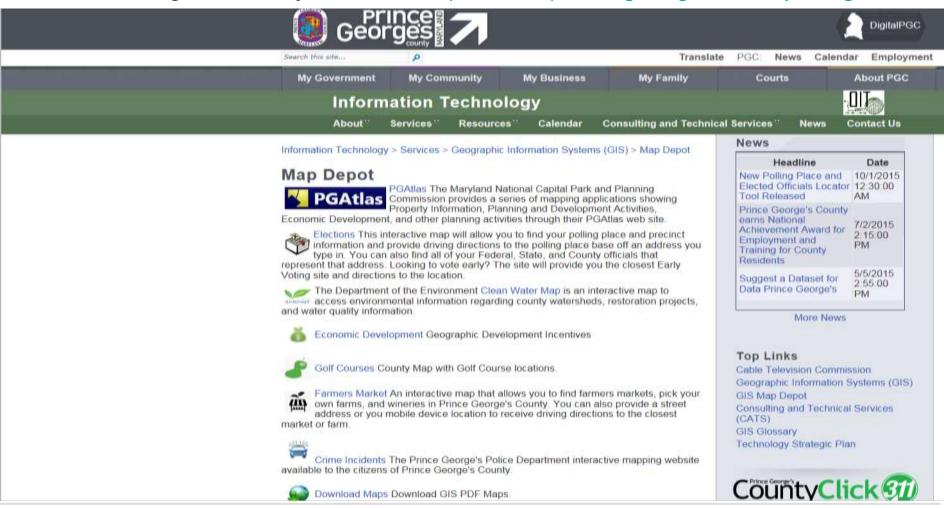
– Prince George's County Visitor's site:





County Website

Prince George's County Website http://www.princegeorgescountymd.gov/





MNCPPC PGAtlas

 Maryland National Capitial Park and Planning Commission PGAtlas Site: http://www.pgatlas.com/





Questions?

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