What is GIS?
What is GIS?

• “GIS is a computerized geographic information system that allows us to view, understand, question and interpret geographically referenced information.”

-esri
Geographically referenced information? Huh?

- Examples of ‘geographically referenced information’:
  - Addresses
  - Road Intersections
  - Land Parcels
  - Fire Hydrants
  - Zoning Districts
  - …anything that can be mapped!
Power of GIS

- Overlay and analyze geographic data to solve real-world problems
  - Which residences are at the greatest risk from shore erosion along the Chesapeake Bay?
  - How many residences are within a 5 mile drive of their assigned volunteer fire department?
  - What impact will a proposed subdivision have on the environment?
Parts of a GIS

- **People**: Users & GIS staff
- **Software**: Geoblade, Geoblade Web, ArcGIS Desktop, ArcGIS Server, SQL Server
- **Processes**: Data Updates, Data Synchronizations
- **Hardware**: Web Servers, SQL Servers
- **Geographic Data**: Esri geodatabases, Esri shapefiles, Other files (.xls, .mdb, etc.)
Who uses GIS within the Calvert County Government?
Community Planning & Building

• Development Review
• Historic Preservation
• Code Enforcement
• Master Planning
• Agricultural Preservation
• Environmental Stewardship
Public Safety / Emergency Operations

- Fire response mapping
- Situational awareness
- 911 control center
- Emergency response planning
Public Works

- Engineering
- Asset Management
- Planning
- Customer Service
Transportation

- Fleet tracking
- Route planning
- Maps/brochures
Technology Services

- Wireless network planning
- Fiber mapping
GIS is also integrated with other enterprise IT systems

- **Hansen**: Permitting & Customer Service
- **New World**: Public Safety
- **WebEOC**: Emergency Management
Who uses GIS outside of the Calvert County Government?
Hopefully…you do!

All of these GIS resources are freely available on the Calvert County Government website

- Topographic & property map
- Aerial photography viewer
- Floodplain map
- Critical Area map
- Capital Projects map
- Election Districts map
- …and more
What’s next for GIS in Calvert County?
What’s Next for GIS in the county?

• Increased integration and interoperability with other enterprise IT systems

• New, updated topographic and planimetric maps completed by mid 2013 (2’ contours, building footprints, road edges, etc.)

• Move toward browser-based maps for internal GIS users

• Provide support for tablets and smartphones for internal and external GIS users