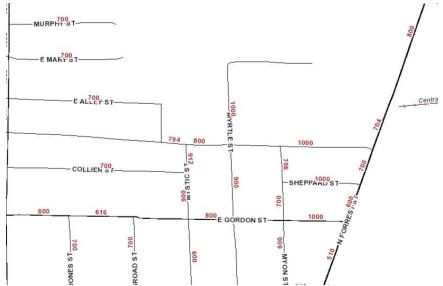


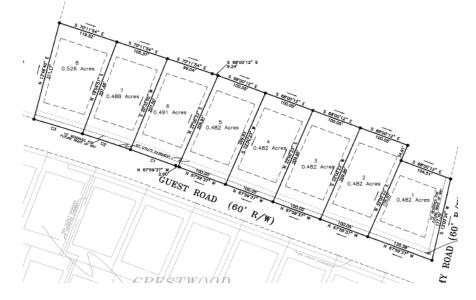
# Geographic Information Services Foundation, Funding and Follow-through

"Without geography, you're nowhere" – Jimmy Buffett

## Parcels and Streets: the foundation of good things to come..

- Both generate one-time funding and a potential stream of income for maintenance
- Enable immediate leverage to be put on freely available datasets such as soils, wetlands, elevations, etc.
- Facilitate the fast creation or reconciliation of complimentary layers (zoning, land use, special districts, city limits, etc)
- Enable Geocoding of nearly everything! (crimes, business licenses, etc) This puts traditional spreadsheets and databases in a spatial context quickly!





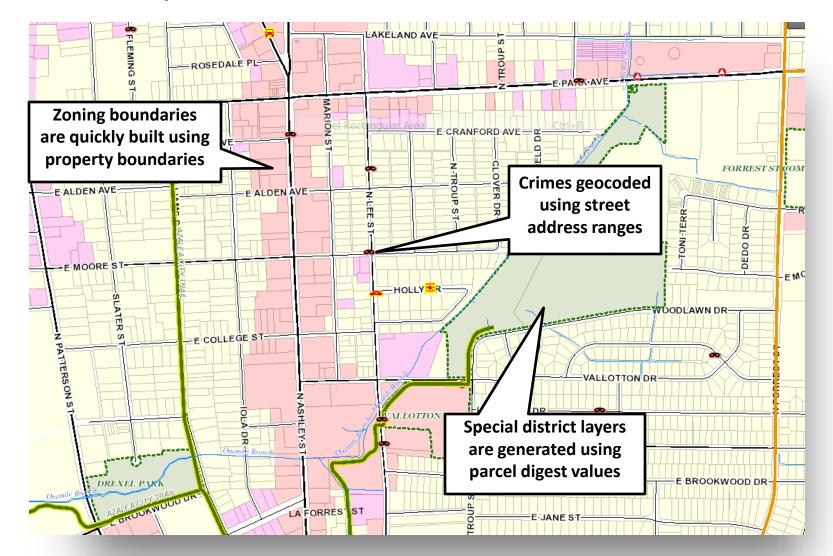
#### FAST ROI:

Analysis of parcel data for the City of Valdosta and city limit boundaries revealed \$13.1 M in total property value that was incorrectly coded as being <u>outside</u> of the City.

15 minutes of analysis = >\$1m in revenues.

#### **Onward and upward!**

#### Fast creation of complimentary layers is made easy with a solid foundation

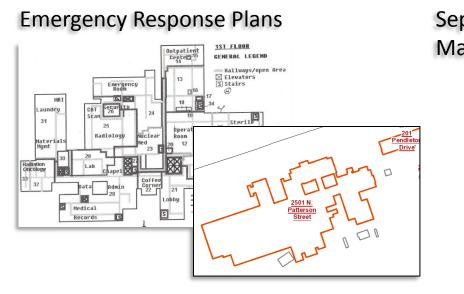


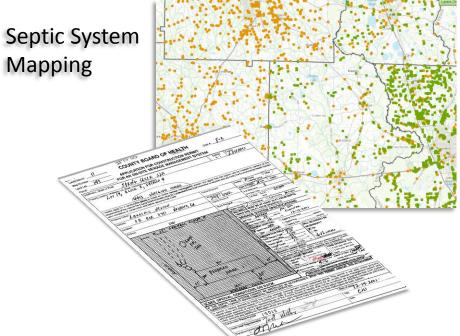
The production and maintenance of these layers generates:

- Quick project and maintenance income streams
- More possibilities for SPATIAL analysis and ROI for the community









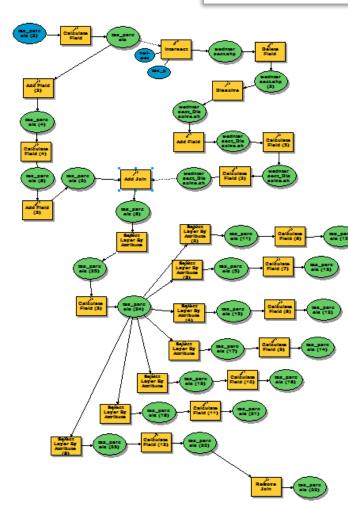
# **Onto the REAL FUN(ding)!**

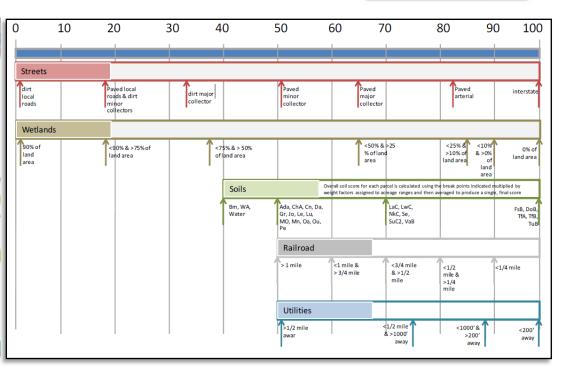
- With a solid foundation in place, and some ground-floor layers, the opportunities for serious funding and community ROI follow.
  - Growth of information inventory from any and all sources
  - Communication of issues through visualization and analysis
  - Production of timely, actionable information
  - Integration of GIS into other decision-support systems

As you move UP the scale, project transferability becomes more important. Not just from community to community, but from practice to practice Land Ho!

## Development Suitability of Parcels using Cumulative Scoring Model







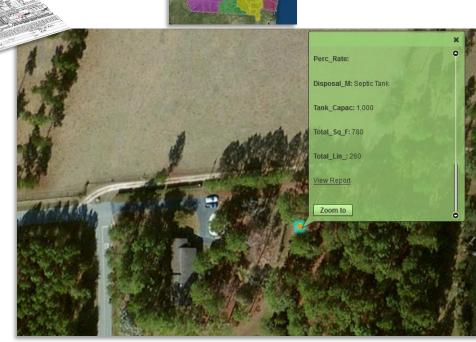
- Analysis of over 50,000 land parcels with weighted scoring for transportation, wetlands, soils, railroad, utilities and acreage
- Analysis models constructed allows replication of this project in other communities as well as tuning of weight for each criteria category
- Delivered defendable results that were acted on by development authority.

# From small dots to state dollars!



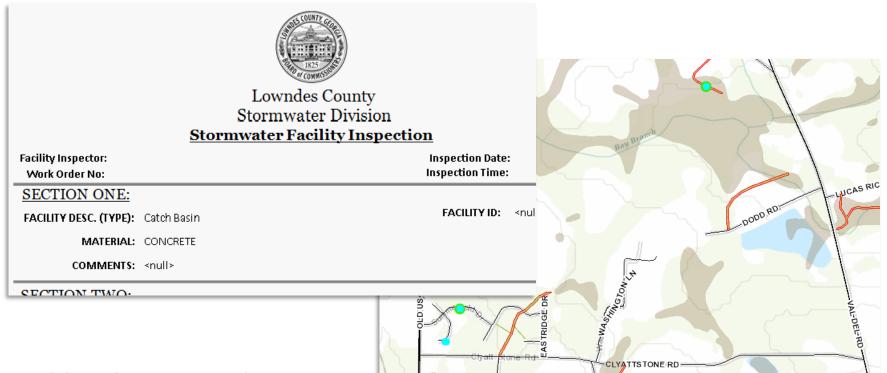
#### Red denotes required fields.

	County: County Code: Health District: Subdivision:	per: OSC13700201 [ <mark>View Permit]</mark> Tift 137 8-1
× 0	Lot: Date:	August • 15 • 2012 • 📷
	Property Location/ Address	
	61 DUANE DR TIFTON, GA 31794 Property Owner's Name:	Eloise Scarborough Torrence
	Septic Contractor: License Number:	Cauthen Jr, William R. ▼
•		11863
	Section A - General	
	Water Supply:	Private
18	Type of Structure:	Single-Family Residence <
	Structure Age:	> 1 Year •
	Sewage System:	Repair -
	Age of System (repairs):	>40 🗸
	In Subdivision:	NO 🔻
	Water Usage By:	Bedroom Numbers
	Number of Bedrooms/ Gallons Per Day: 3	
	Level of Plumbing Outlet:	Ground Level
	Lot Size:	10.94



- Web based, secured application
- Started as a \$3k pilot project. Continues as a \$13k maintenance contract with State DHR
- Covers entire state and ALL well and septic system inspections/installations
- Links directly to state database
- Data is now used to generate pollution susceptibility indexes for certain critical resource areas in the state

## Managing Stormwater made easy!



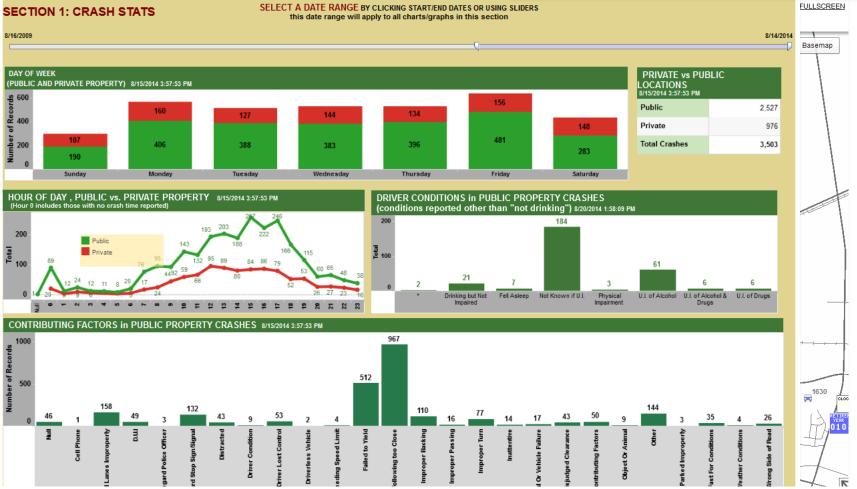
5

CIDER-TR-

- Mobile Application using web services
- Real time data update and communication between field crew and office personnel.
- Mapping and reporting of inspections and maintenance combined.
- NPDES Phase II required permit reports for the state run from real time GIS data, allowing for digital submission.
- Work Orders created for maintenance required.

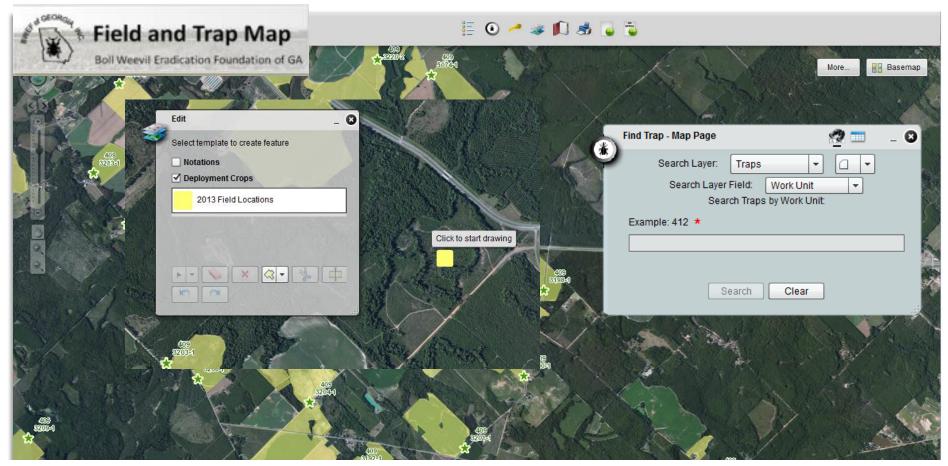
## A valuable perspective on policing...





- Web based, secured application accessible from desktops and within patrol cars
- 3 second AVL updates for each car in fleet
- Real time crime reporting. Automatic geocoding of each incident immediately after submitted
- Access to crime analysis tools "pin" map as well as real time density
- Search tools for property owners, addresses, streets, ets
- Includes real time charting for crash, burglary and part 1 crimes

# The GIS bug bites Boll Weevil Eradication Foundation...



- Web based, secured application accessible from desktops
- As traps are placed in field, GPS records the location. Trap locations are uploaded nightly into mapping app
- Field locations/shapes are edited directly into mapping app by BWEF monitoring staff from their home computers.
- Real-time, online map generation tools for field use
- Generates ~\$18k per year in maintenance/modifications and SGRC doesn't EDIT/BUILD the data!
- Makes management of state cotton monitoring manageable for the 15 staff member BWEF
- Has delivered a tool to BWEF that finally accounts for actual acres of cotton each year

Secrets to Success..

- A <u>solid</u> foundation of property and street/road data is vital!
- Exploit the free resources of data! These can immediately get you hitting home runs for your communities
- Look for traditional data and map it! excel, sql, dbase, etc.
- RECYCLE data.
- INVEST in a solution to common needs around the district/state
- Strive to deliver <u>actionable</u> output!
- Make that investment into "transferable" technology. Not just from one community to next but from one application to the next. Example: code written for auto updates of crime data was exploited to make the BWEF trap location updates possible.
- Embed your GIS outputs into current decision-support systems. Example: burglary crash charting used by VPD, Or including reporting tools in apps that reduce crossapplication workflows