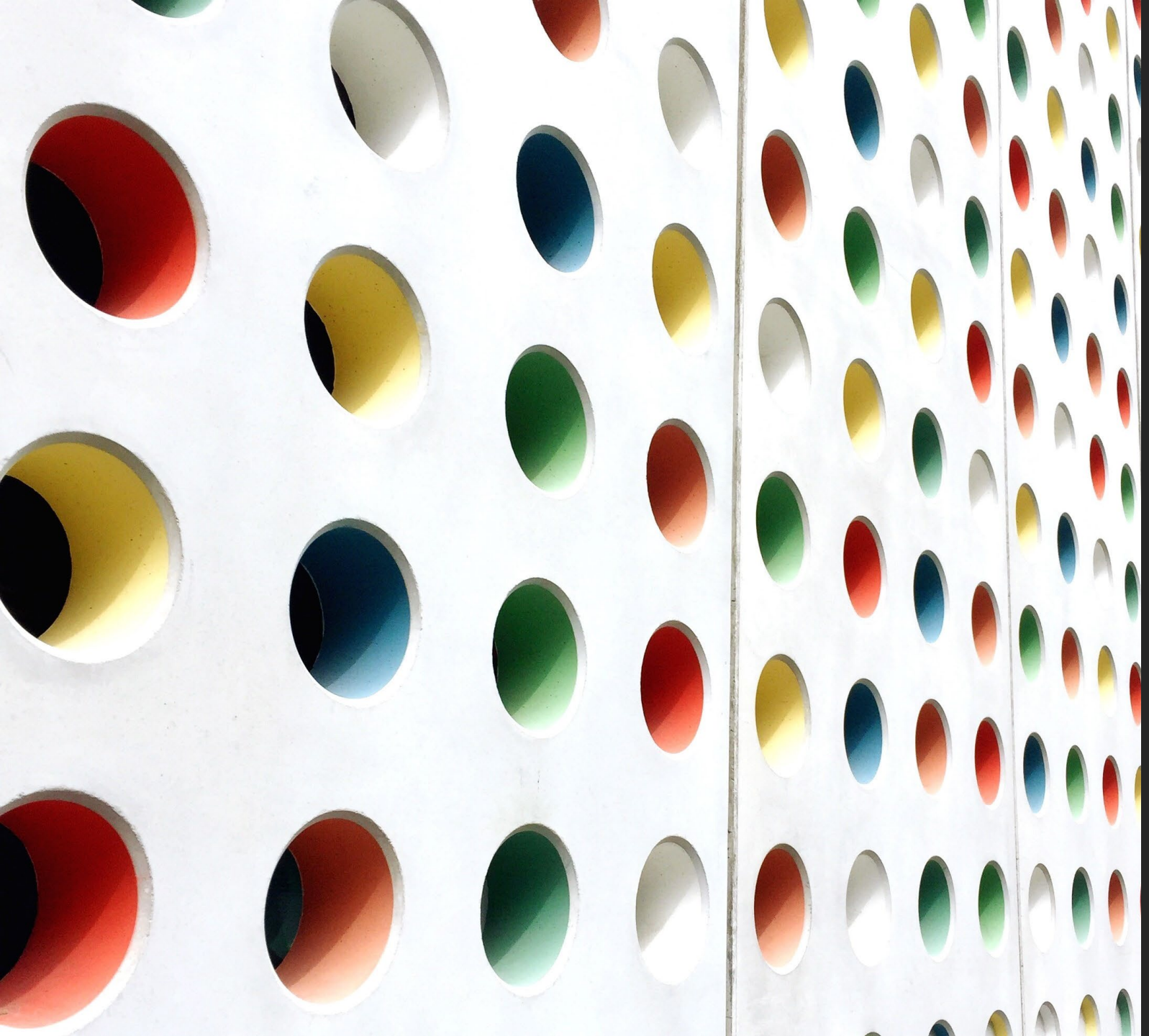


Utilizing ArcGIS Survey123

AMY TRIMM, MPH

CHATHAM COUNTY MOSQUITO CONTROL

ANTRIMM@CHATHAMCOUNTY.ORG

Disclaimers

Is it worth it?

Paper

Lost, damaged, time to enter in database,

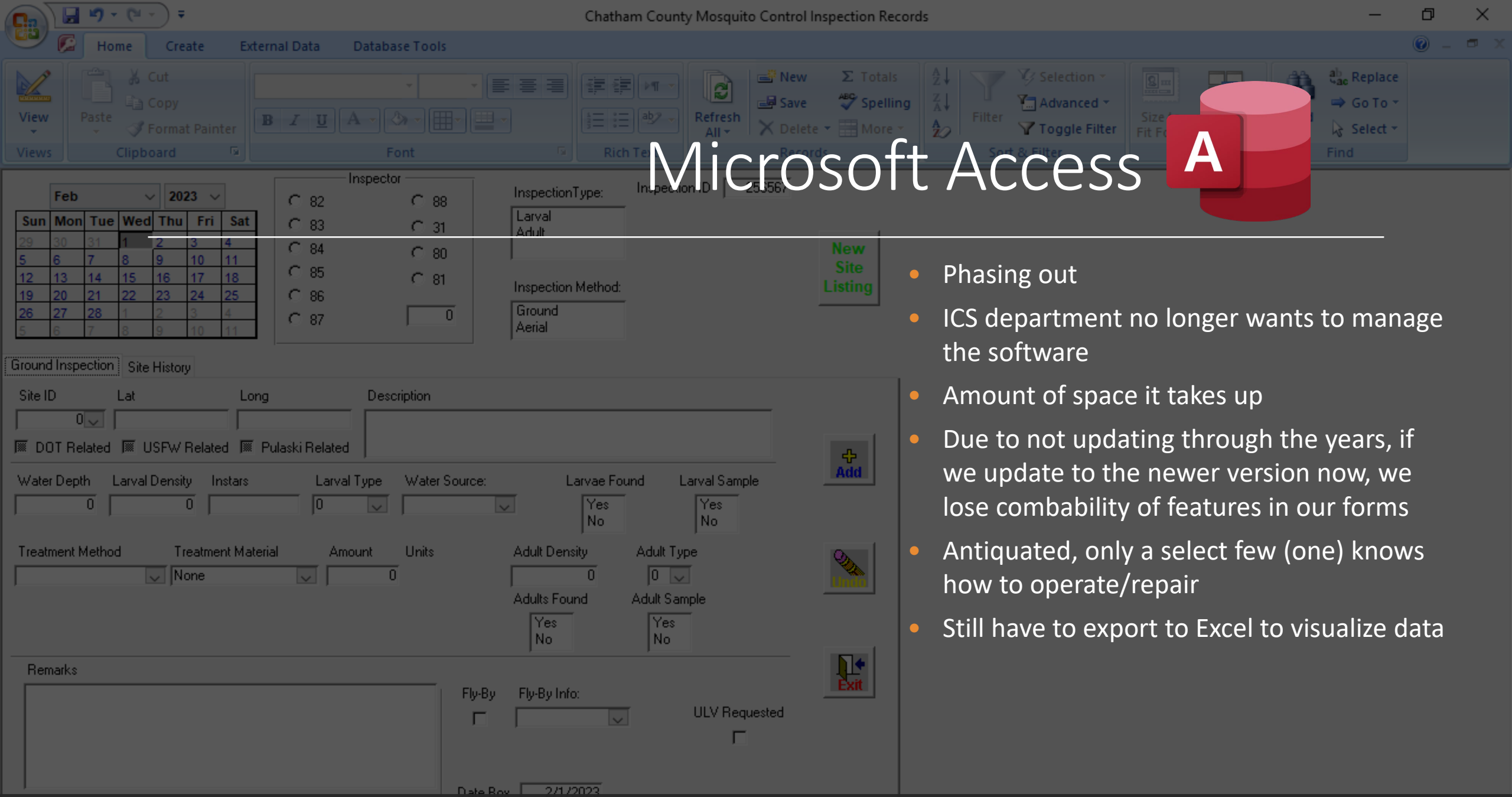
Display

Ability to see the data visually, transparency among staff

Cost

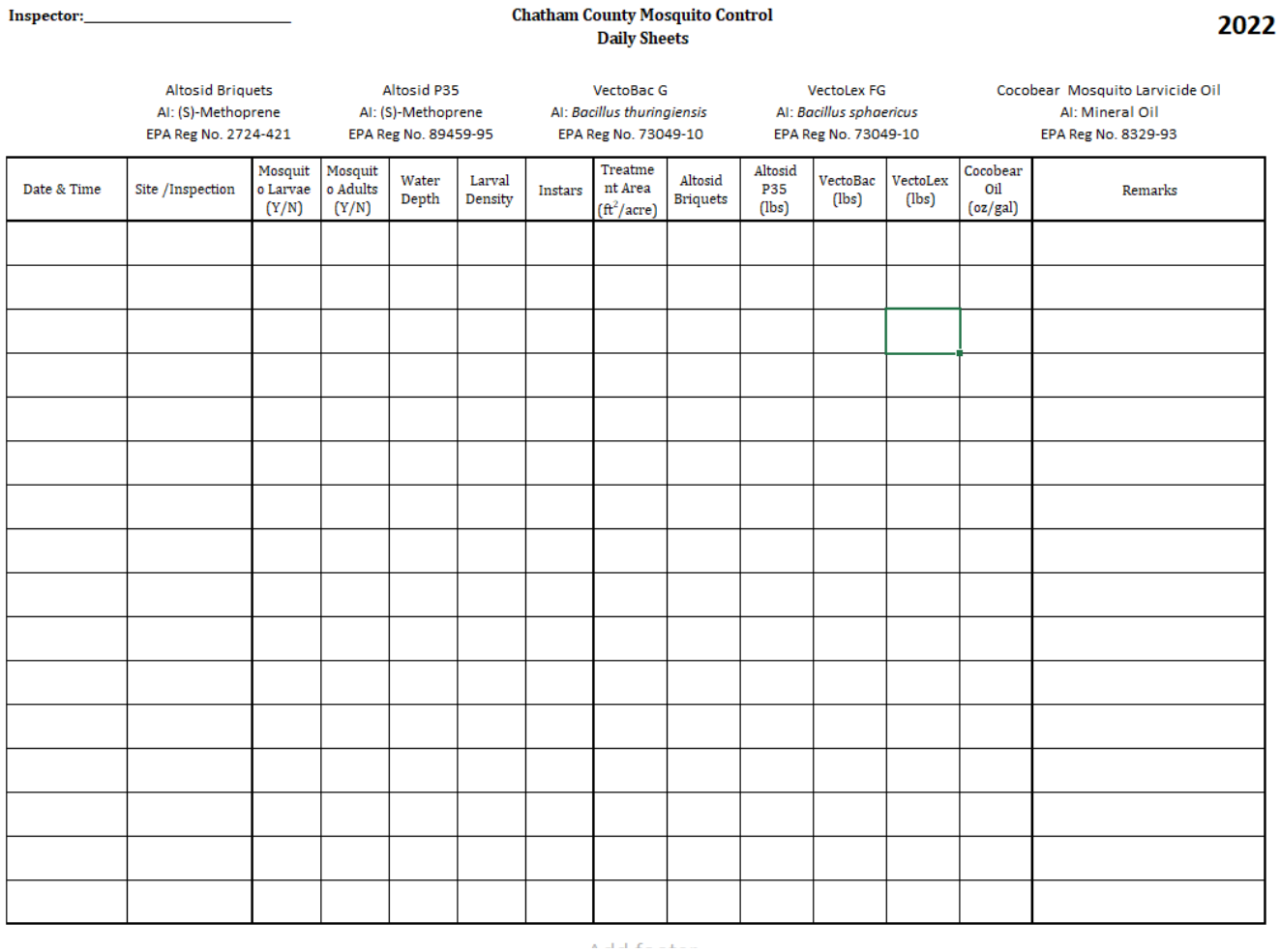
Startup and maintenance

Microsoft Access



- Phasing out
- ICS department no longer wants to manage the software
- Amount of space it takes up
- Due to not updating through the years, if we update to the newer version now, we lose combability of features in our forms
- Antiquated, only a select few (one) knows how to operate/repair
- Still have to export to Excel to visualize data

Paper Records



Inspector:_____

Chatham County Mosquito Control
Daily Sheets

2022

	Altosid Briquets AI: (S)-Methoprene EPA Reg No. 2724-421	Altosid P35 AI: (S)-Methoprene EPA Reg No. 89459-95	VectoBac G AI: *Bacillus thuringiensis* EPA Reg No. 73049-10	VectoLex FG AI: *Bacillus sphaericus* EPA Reg No. 73049-10	Cocobear Mosquito Larvicide Oil AI: Mineral Oil EPA Reg No. 8329-93

Date & Time	Site /Inspection	Mosquito Larvae (Y/N)	Mosquito Adults (Y/N)	Water Depth	Larval Density	Instars	Treatment Area (ft^2/acre)	Altosid Briquets	Altosid P35 (lbs)	VectoBac (lbs)	VectoLex (lbs)	Cocobear Oil (oz/gal)	Remarks

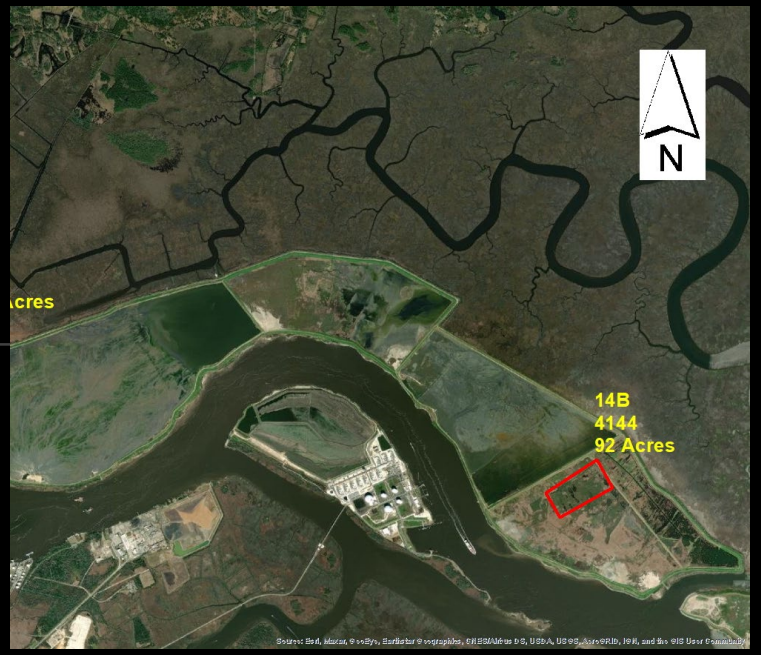
- Lost, damaged
- Dependent upon staff to enter immediately after being in the field
  - What if staff were unexpectedly off work?
  - An emergency?
- Time constraints
- Texting/calling in targets that needed to be larvicided
- Creating maps for targets upon return to the office

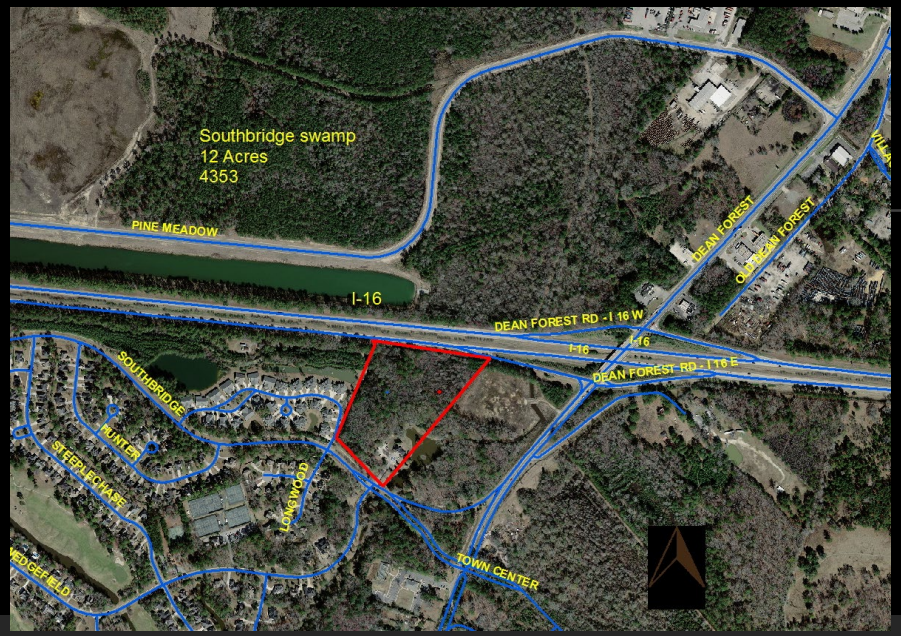
Column1	Column 2	Column 3	Column 4
City, State, Zip	City	State	Zip
First Last Name	First Name	Last Name	Middle?
Jan 1, 2023	January 1, 2023	01/01/2023	01/01
Street Avenue Road	St Ave Rd	St. Ave. Rd.	
Godley Street	Godley St	Godley St.	Godley
Aedes albopictus	Aedes albo or al	Ae. albo. or al.	Aedes / albopictus

Data Standardization

Creating a table in ArcGIS is the backbone of any map

- How you store the data matters – field type, length, format
- Sharing data
- Clean, complete, & verified

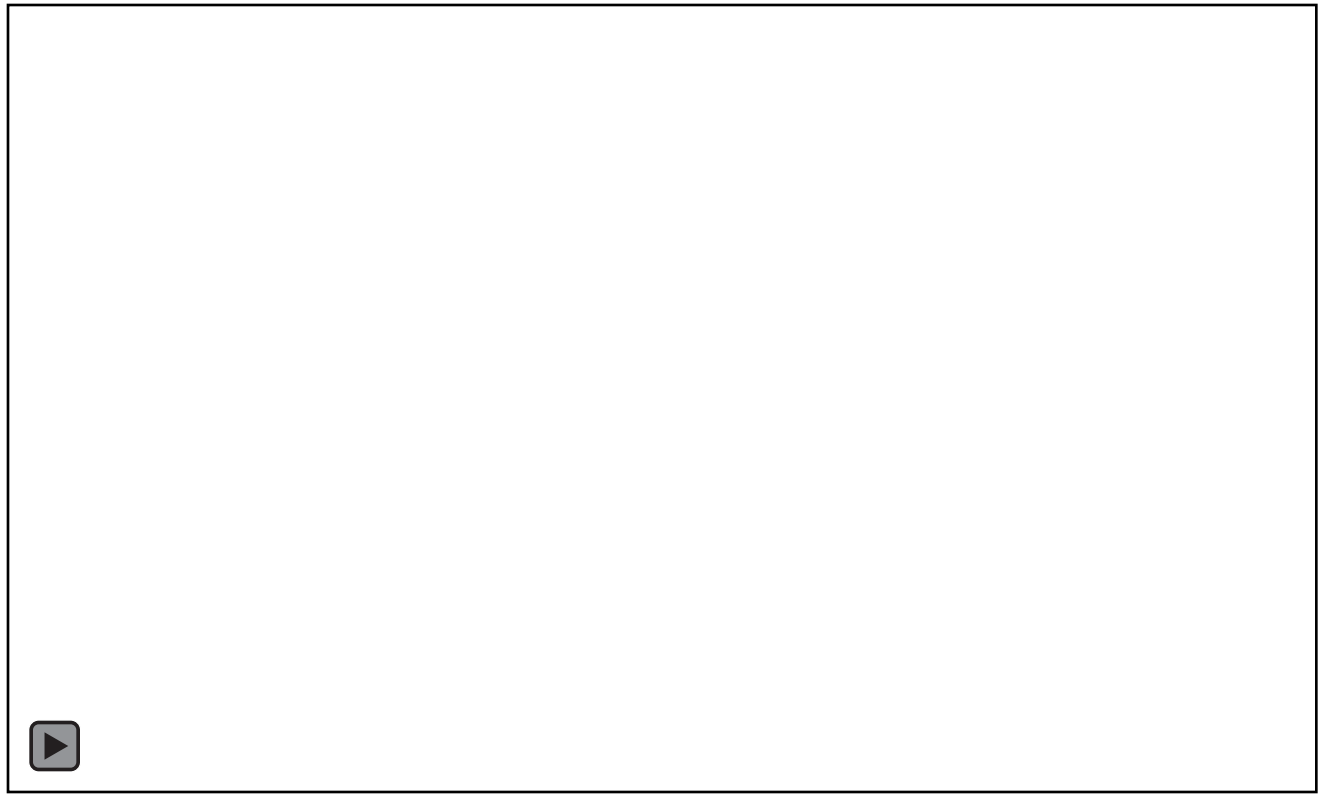




What we already had:

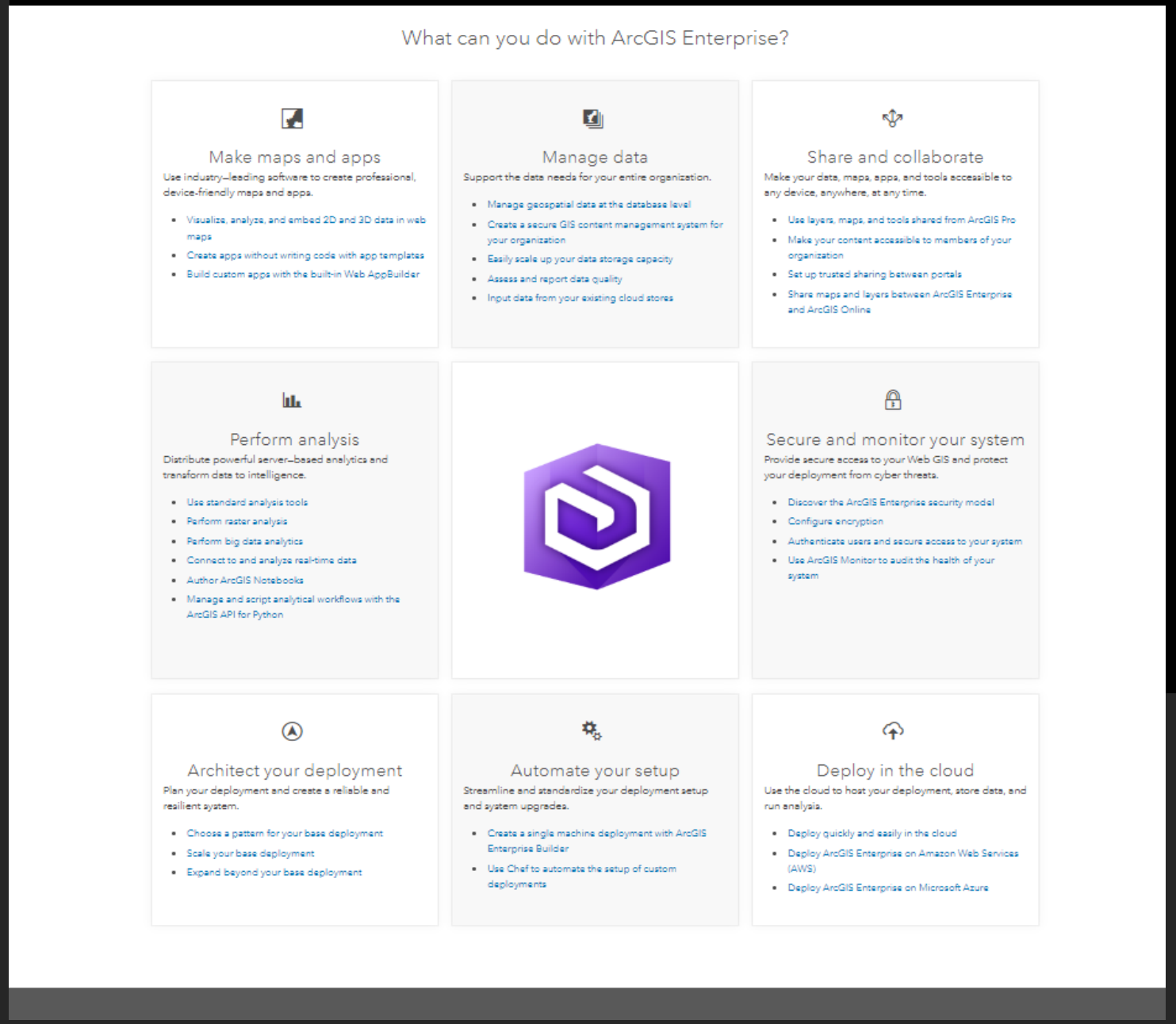
ARCGIS MAP DESKTOP

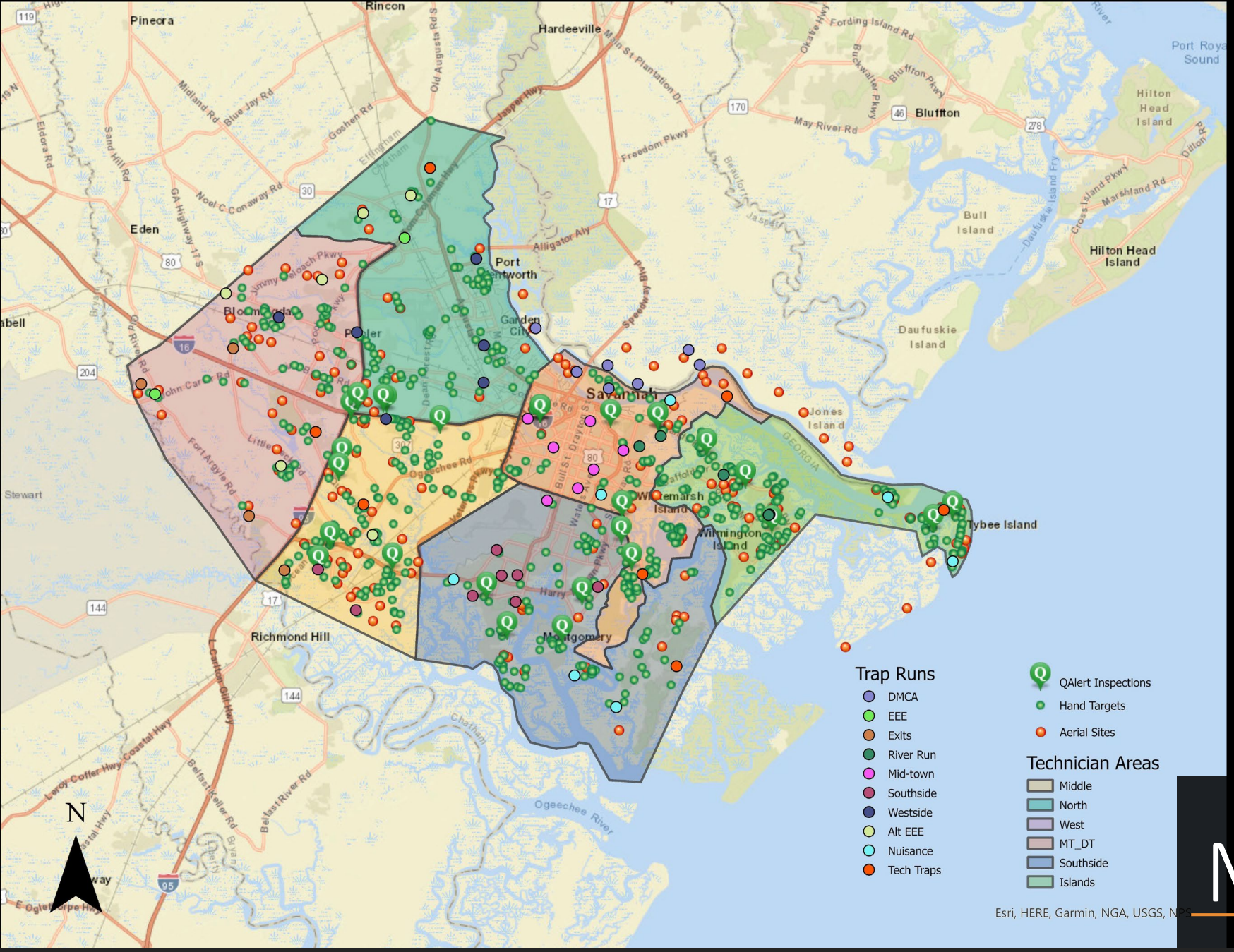
What we needed: User Types (license levels)



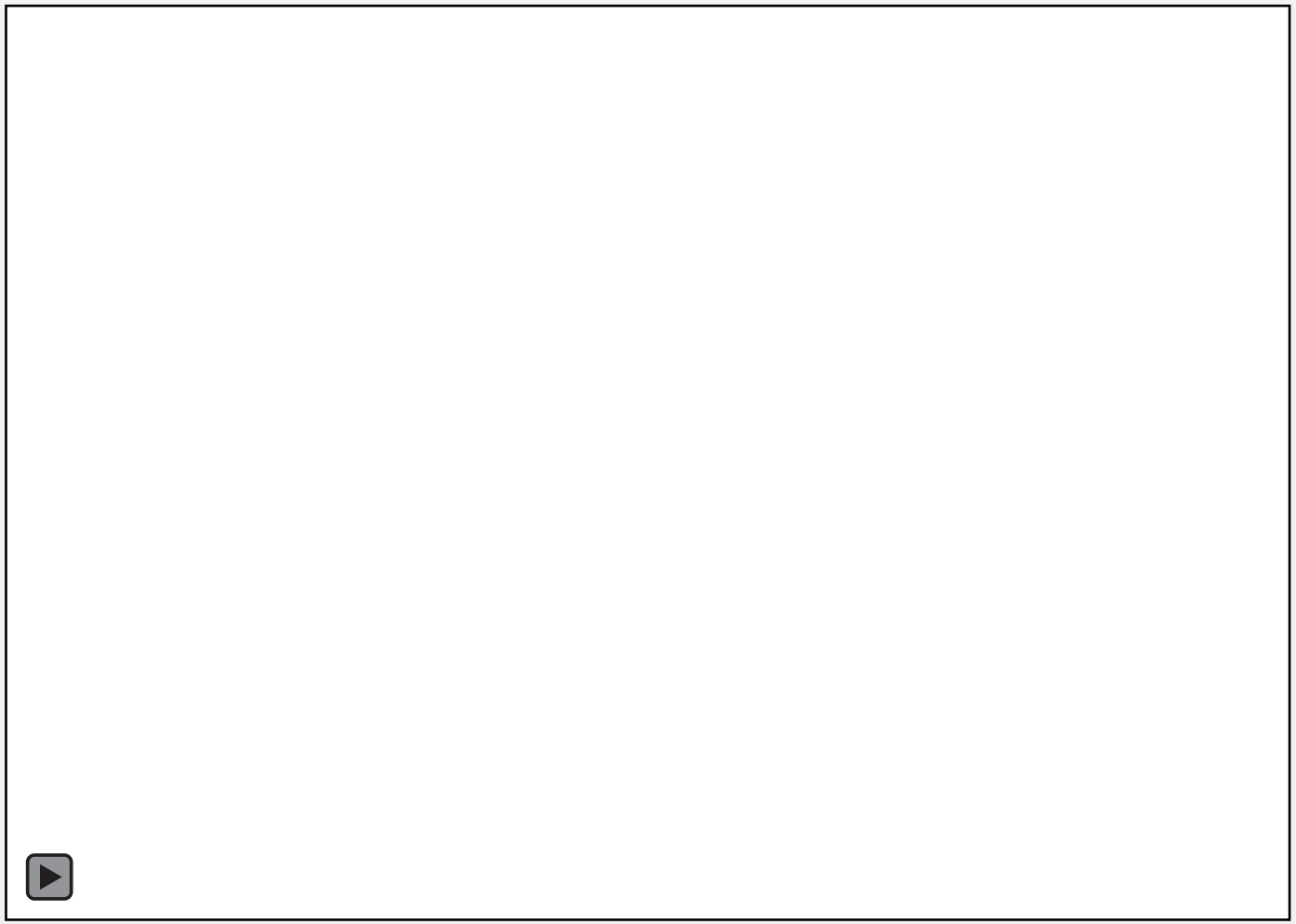
GIS Department

FOR CHATHAM COUNTY THIS GROUP FELL UNDER OUR ENGINEERING DEPARTMENT.



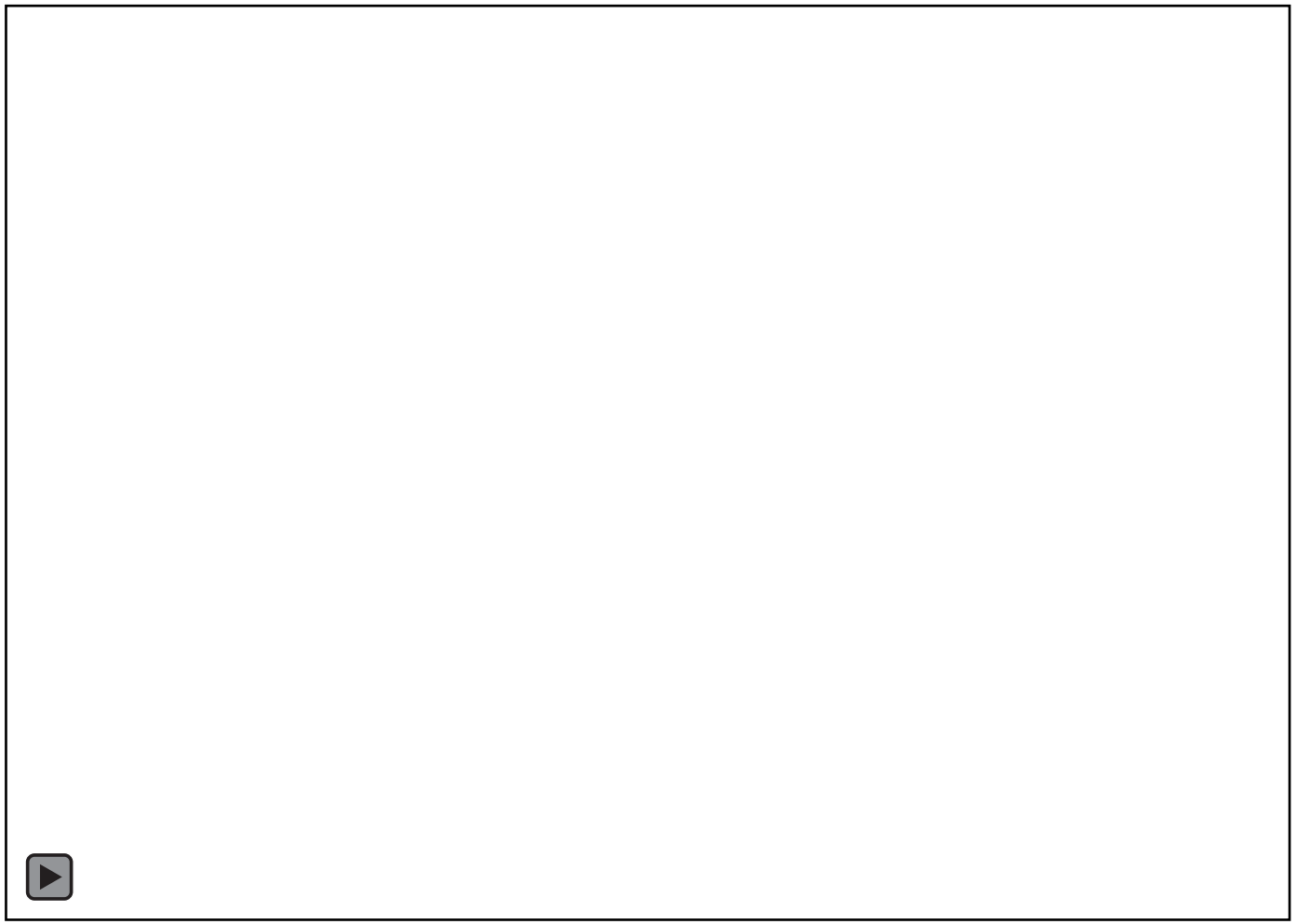


Moscon Portal



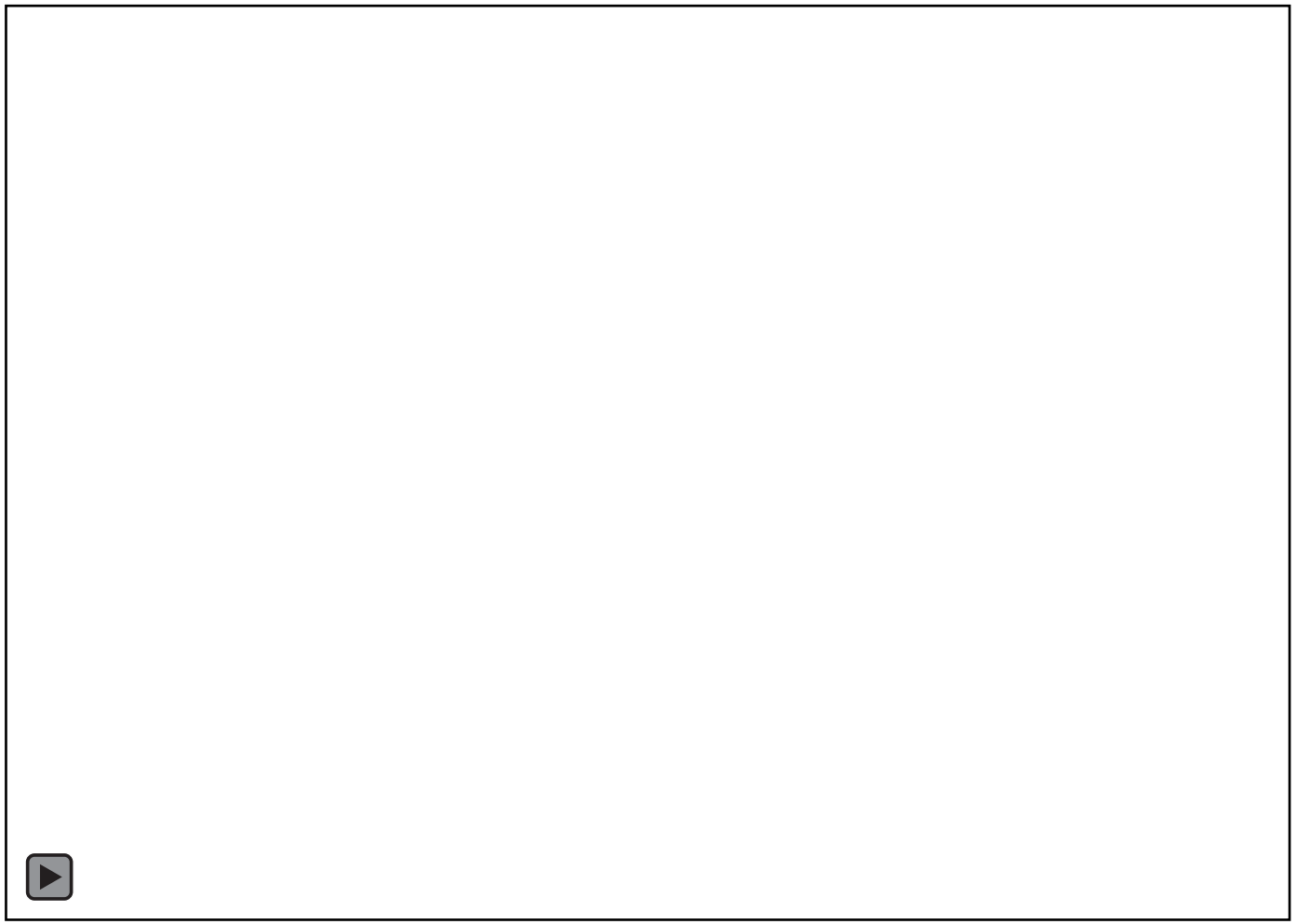
Survey123

- Quick/efficient
- Out in the field
- Smart phones (county provides each employee with a phone for official business)
- Visualize data on demand
- No need to move to Excel



Survey123

- Customer/residential inspections
- County has an internet-based system for residents to input requests
- No way to record pesticide usage, other than in a text box



Survey123

- Different style – office based survey
- Trap counts were only recorded in Access, but they were always exported to Excel to see the trends
- This information is recorded in just a table currently, eventually it will be visually displayed on the portal
- Quick turn around to those in the office and out in the field

Things to come:

- DIRECT TARGET DROP TO AVIATION UNIT
- TREND MAPPING
- TRUCK AND AERIAL SPRAY MISSION LAYERS
- TRANSPARENCY ACROSS THE ENTIRE DEPARTMENT

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