

# DeKalb County GA Update 2024

**Leo Ladefian**

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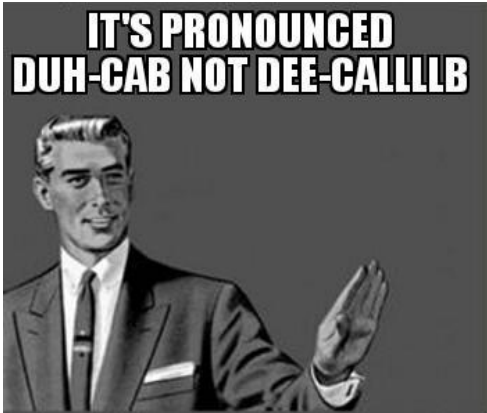
# Agenda

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- GIS Department Overview
- Open Data
- Elections
- ArcGIS Urban
- Drone Program
- Machine Learning
- Building, Planning, Code Permit Tracker



# DeKalb County GA



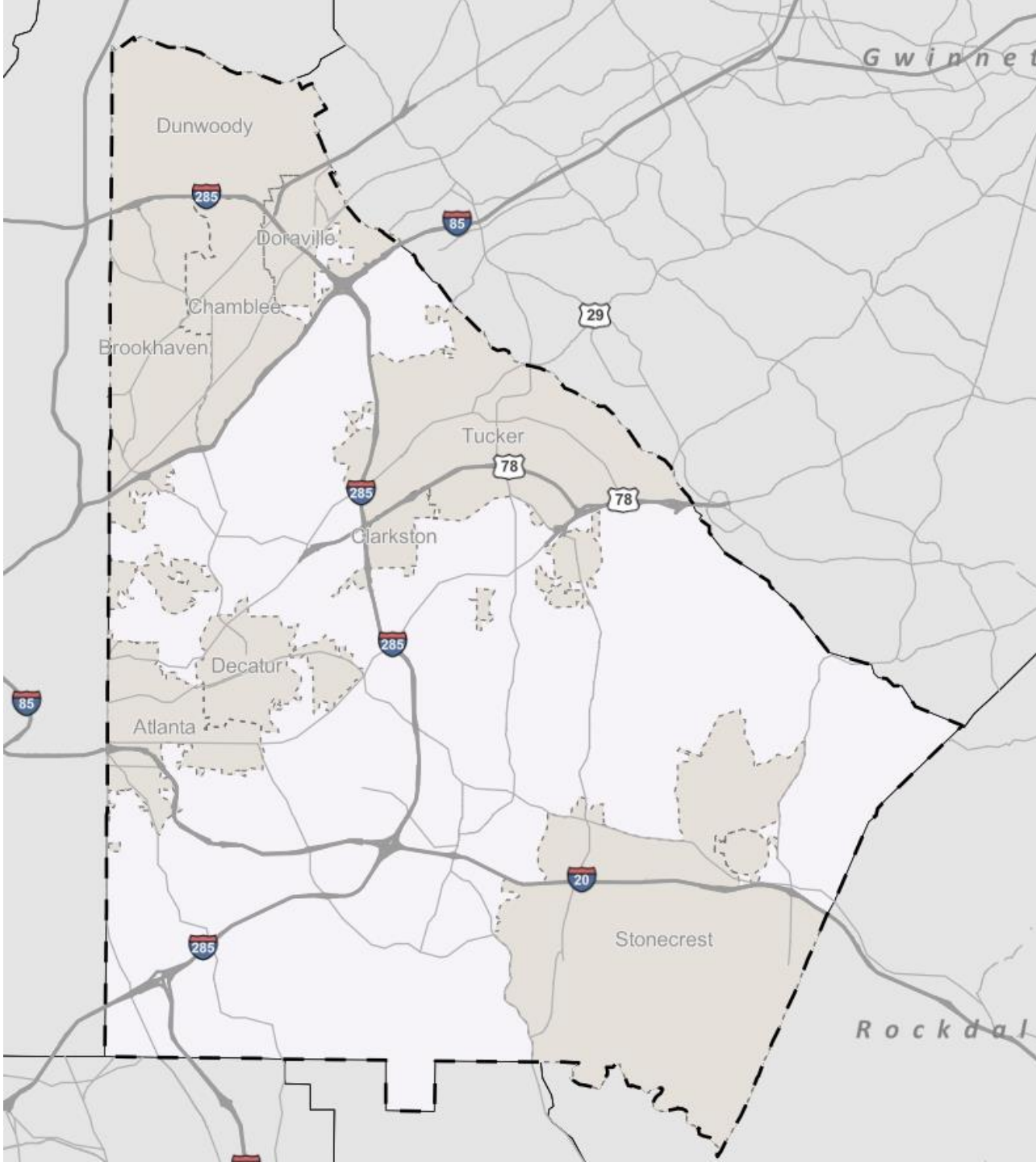
- Population – 764,382 (4<sup>th</sup> largest county in GA)
- Current CEO Michael Thurmond
  - Author of “James Oglethorpe, Father of Georgia: A Founder’s Journey from Slave Trader to Abolitionist”
- 59 miles of multi-use paths / trails
- 1 state park - Panola Mountain State Park
- 26 fire stations

# DeKalb Cities



Avondale Estates  
Stone Mountain  
Clarkston  
Brookhaven  
Doraville  
Lithonia

Tucker  
Pine Lake  
Stonecrest  
Chamblee  
Atlanta  
Dunwoody  
Decatur

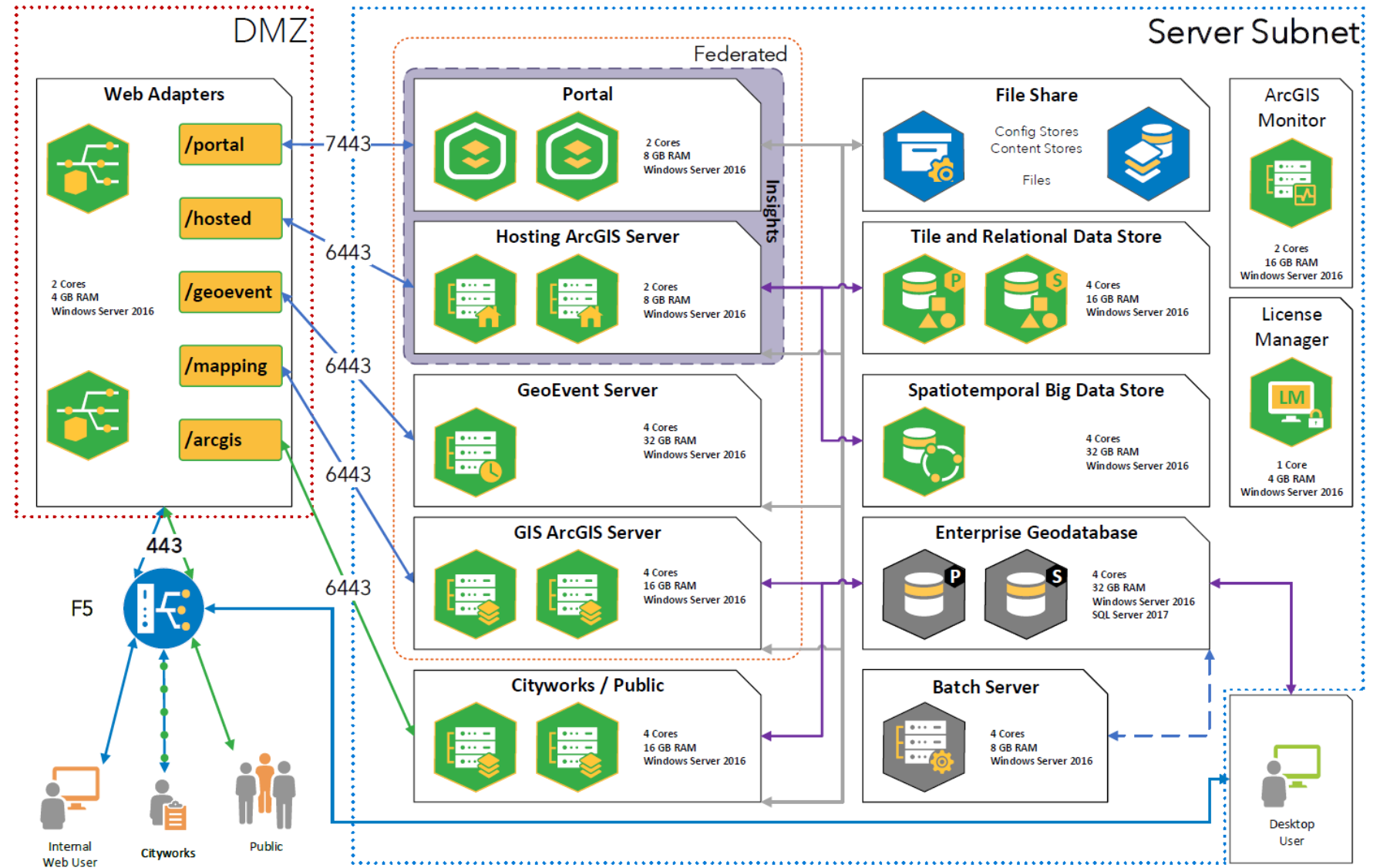


# DeKalb GIS



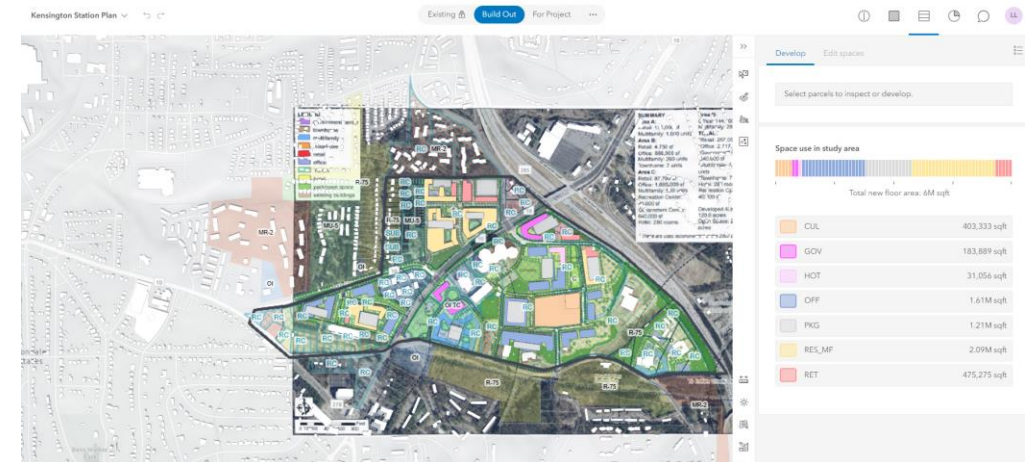
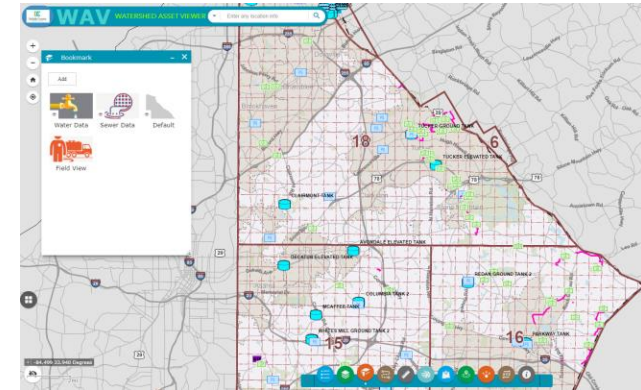
- Enterprise License Agreement (EAP)
- Advantage Program – <https://www.esri.com/en-us/c/services/advantage-program>
  - 638 AGOL members
    - 121 Creators
    - 12 ArcGIS Pro Extensions
    - 7 Applications
      - Business Analyst, Drone2Map, Insights, Navigator, GeoPlanner, Urban
- Enterprise 11.2
  - Geoevent, Geoanalytics, Monitor
  - 6 ArcGIS Servers, 2 hosted, 2 federated, 2 unfederated (cityworks, other apps)
  - Highly Available

# Servers!



# Departments

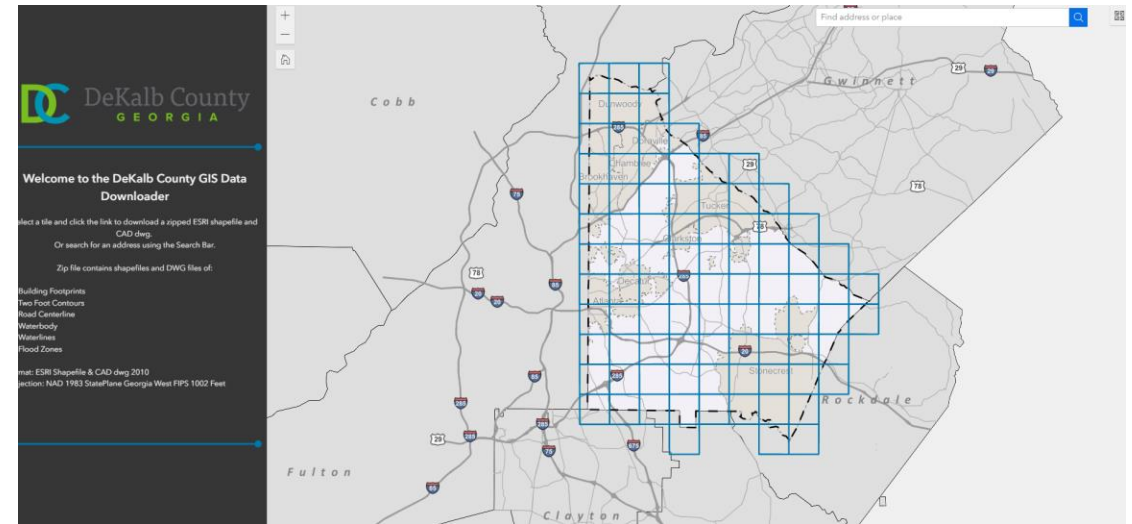
- **Watershed (largest footprint)**
  - Water delivery
  - Sewer
- **Property Mapping**
  - Parcel Fabric
  - Addressing - (Address Data Management Solution)
- **Sanitation**
  - Bulky Item Pickup using Goevent, Survey123, workforce and navigator
- **Fire**
  - 911 routing using network analyst in portal, (StreetmapPremium)
    - adding private roads
    - Building Heights from Lidar / Drone
- **Planning and Development**
  - ArcGIS Urban
  - Community Analyst, BA
  - Editing zoning and landuse layers



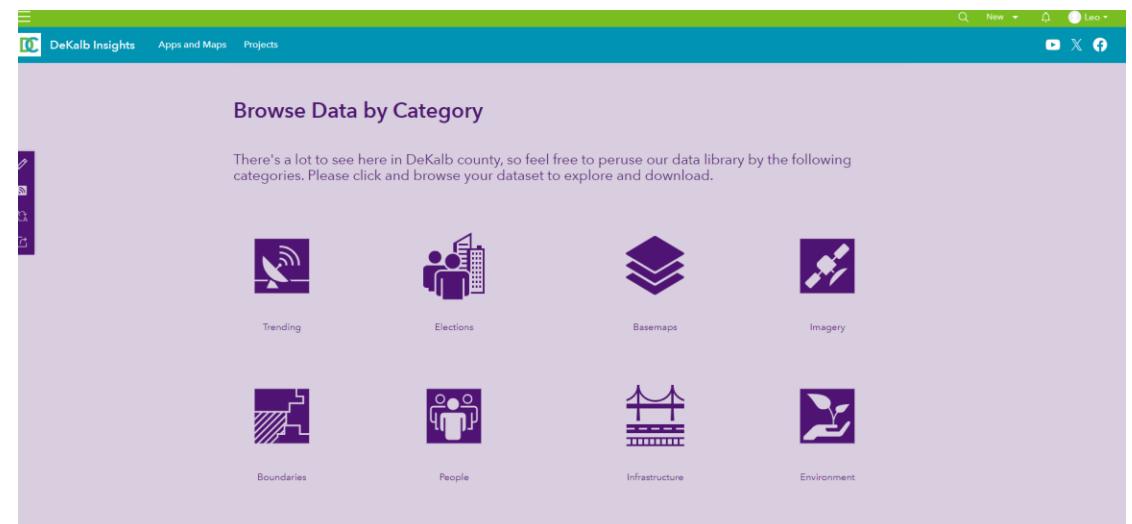


# The Data is Open!

- <https://dekalbgis.maps.arcgis.com/home/index.html>
- [Data Downloader](#)



- [Open Data Page](#)






# Elections

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- Real time problem reporter
- State required wait time reporting
- Needed a solution quickly
- Publicly accessible information
- [DeKalb Voter Page](#)
- [Wait Times Dashboard](#)
- [Voter Satisfaction Survey](#) (not open until election)

# Find My Precinct

**Election Polling Places**

178 Sams Street, Decatur, GA, 30030

Voting for Precinct: GA

[To find your Sample Ballot, please log in to the Georgia MY Voter page.](#)

Glennwood (DEC)

**Next Election Day**  
May 21, 2024

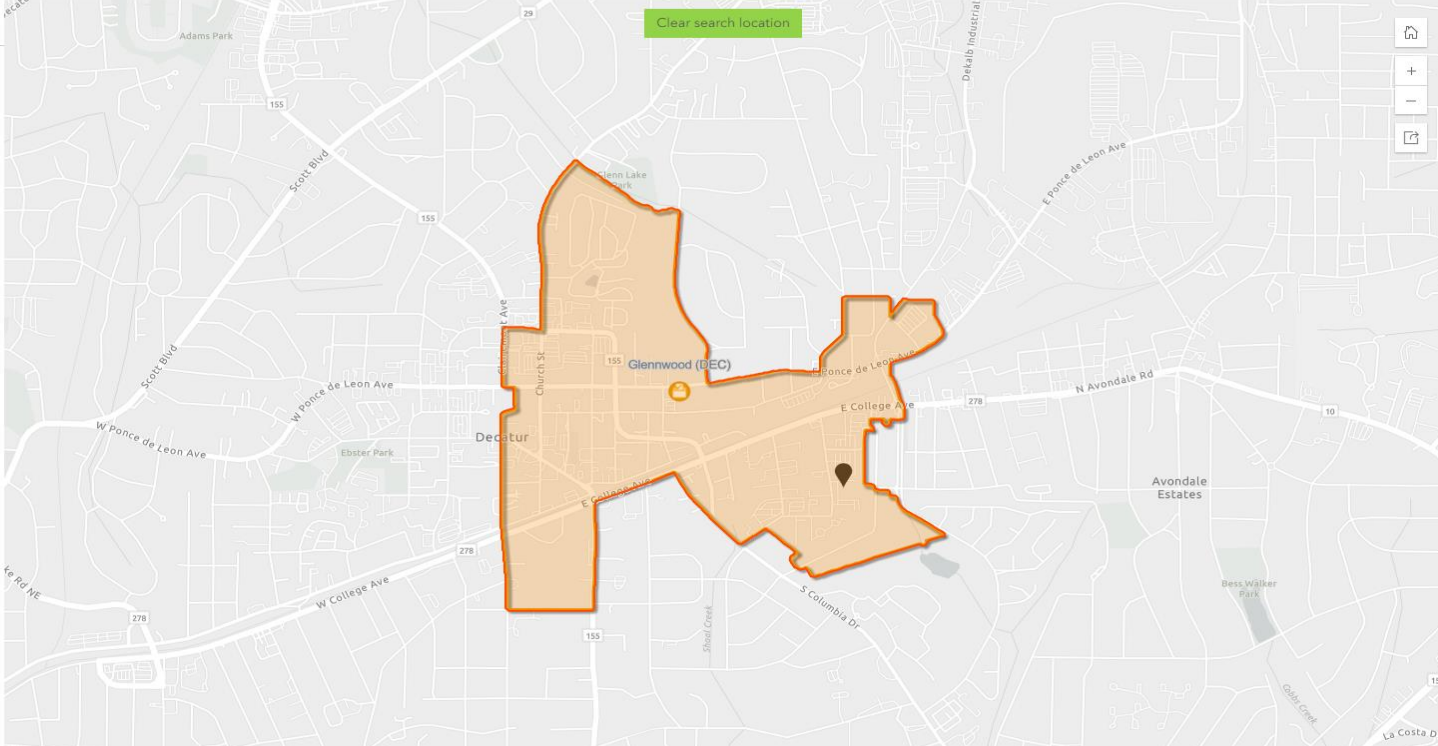
515 E Ponce De Leon Avenue  
Decatur, GA 30030  
[Handicap Accessible](#)

**Hours**

Must register to vote by:  
April 21, 2024

For more information, contact:  
[DeKalb County Voter Registration & Elections](#)  
404-298-4020  
[email](#)

Clear search location

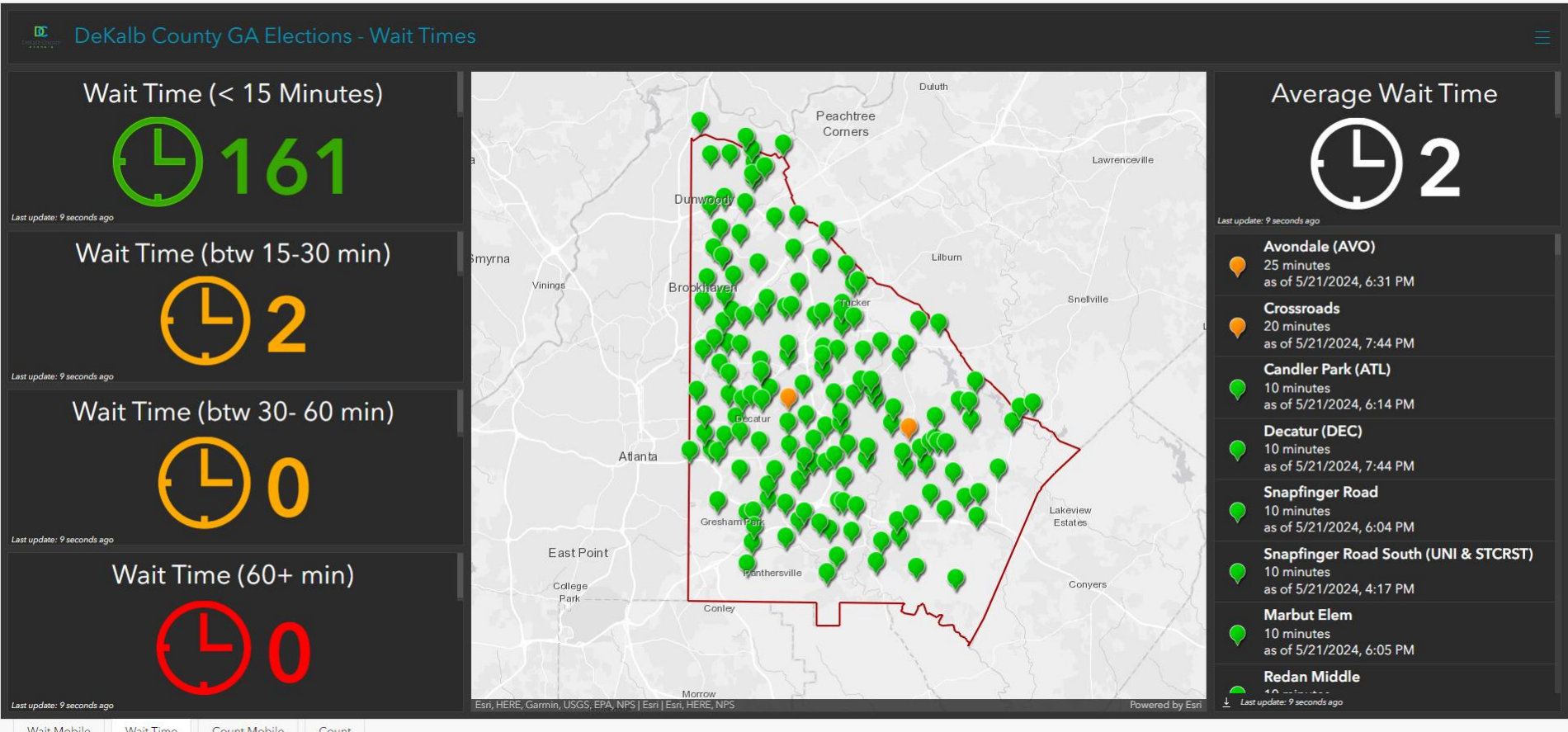


Esri Community Maps Contributors, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS | Esri

Powered by Esri

# Wait Time Dashboard Public

Reported through Polling Asst App



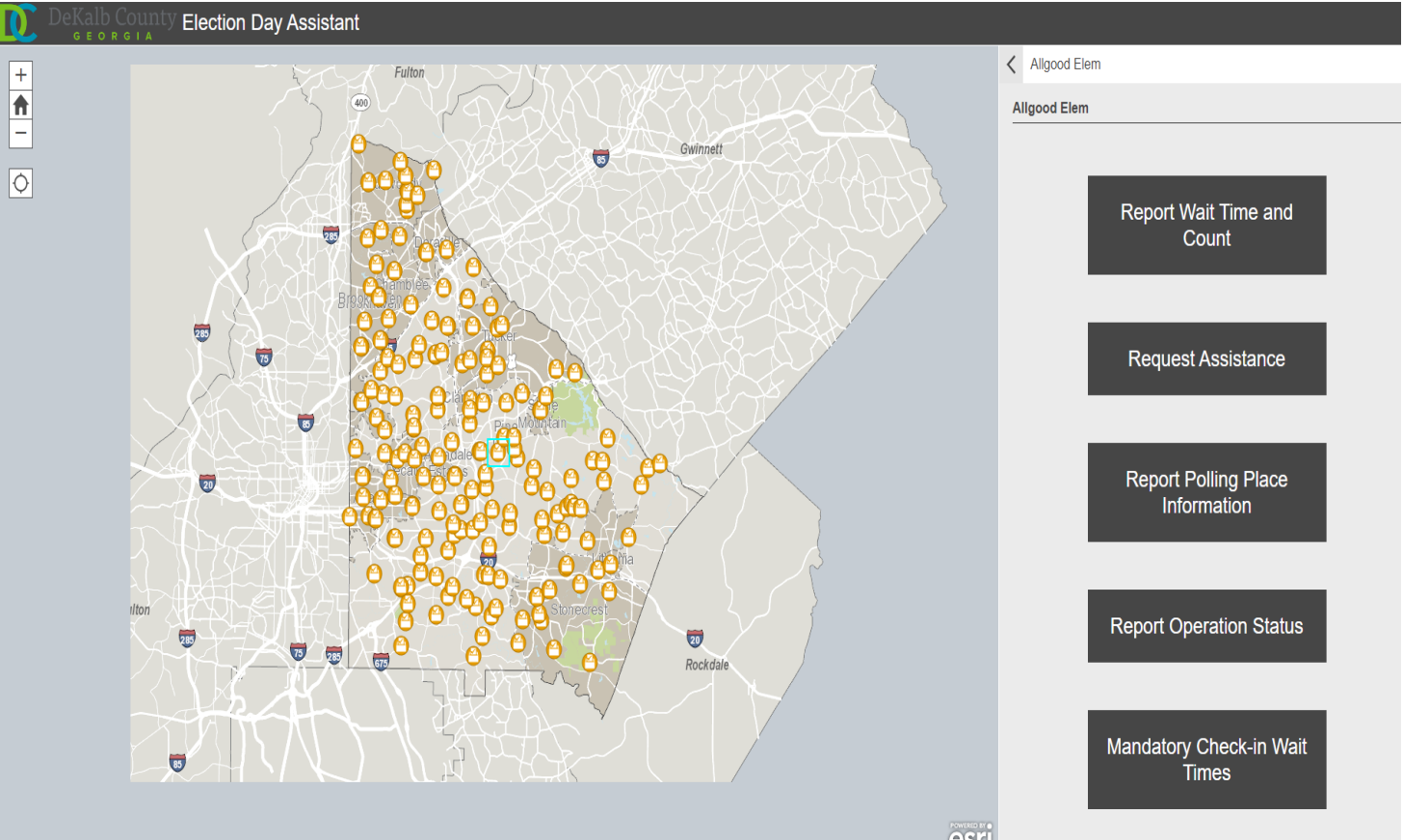
# Voting Manager

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- Polling Place Assistant
  - Kicks off a survey 123 and feeds to Workforce Project where workorders can be managed
- Workforce
  - Used to manage requests and assign tasks to poll workers

# Polling Assistant

The app allows workers at the polling locations to check in in the morning of the election (staff arrived and ready to go), report polling place info and ballot counts, to enter wait times and counts during the election day, and to enter in request tickets for hardware, supplies, issues etc which will then be seen and assigned by the Voter Registration office.



DeKalbGISAdminSign Out

Election Requests

Complete the form below, then click **Submit**.

Details

Location

Allgood Elem

Request type\*

☐ ICP (Scanner) Issues

☐ Poll Pad Issues

☐ ICX (Touchscreen) Issues

☐ BMD (Printer) Issues

☐ UPS (Battery) Issues

☐ Election Equipment Issue NOT resolved by Dominion Technician - give details

☐ Election Supplies - Hardware & Paper



# Workforce to assign tasks

## Dispatcher View

My Projects > Election Manager

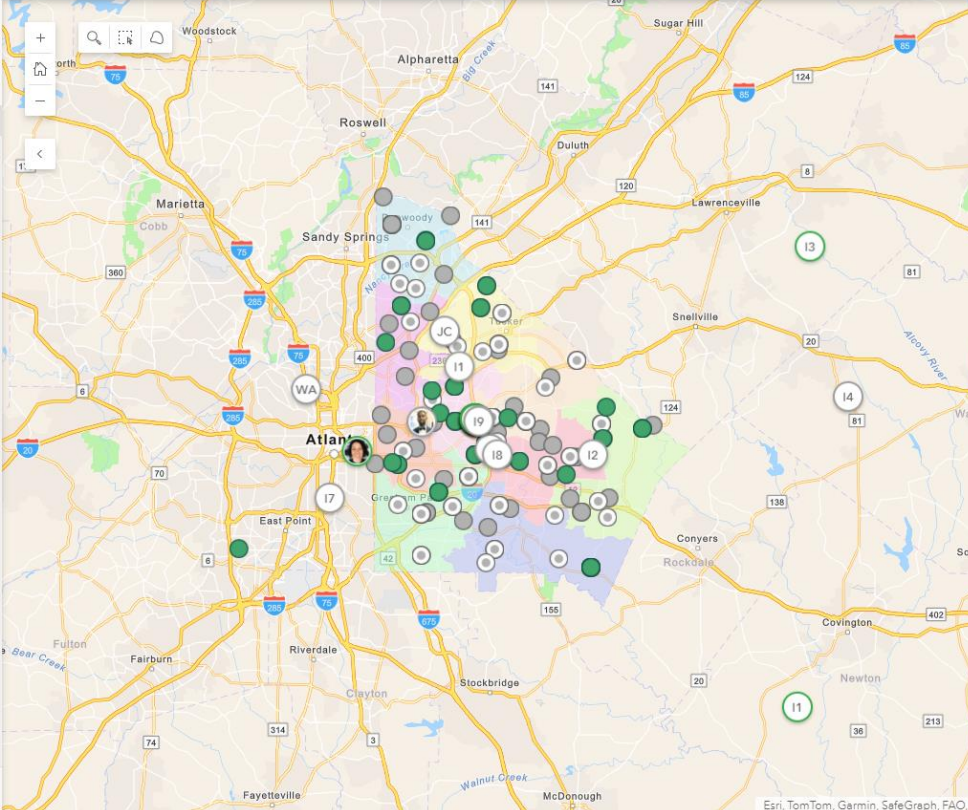
Assign Filter by type, location or ID + Assignments

Status Due Priority Assignee Sort

154 assignments Showing 1-50

- ☐ ICX (Touchscreen) Issues  
Flat Shoals Library  
Low
- ☐ ICX (Touchscreen) Issues  
Princeton Elem (UNI & STCRST)  
**Critical**
- ☐ Election Supplies - Hardware & Paper  
Boulevard (ATL)  
**High**
- ☐ Information ONLY - When Response isn't necessary  
Dunshire Elem  
Low
- ☐ Election Supplies - Hardware & Paper  
Wadsworth  
**High**
- ☐ Information ONLY - When Response isn't necessary  
Dunshire Elem  
Low
- ☐ Election Supplies - Voting Equipment  
Rockbridge Road  
**High**
- ☐ Election Supplies - Hardware & Paper  
Wadsworth  
Low

Assignments Workers



The map displays the Atlanta metropolitan area with various task locations marked by colored circles. The circles are color-coded: green for 'Low' priority, red for 'High' priority, and grey for 'Critical' priority. The map includes major highways (Interstates 75, 85, 285, 405, 20, 402, 213, 36, 74, 314, 58, 120, 124, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 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# Mobile View for Election Workers

## Worker View

Verizon LTE12:11 PM

☰

To Do ▾

Map

CRITICAL PRIORITY

●

Computer Hardware

Northlake

Critical | Added 19 hours ago

5 mi

HIGH PRIORITY

●

Safety / Security

1375 Fernwood Circle, Atlanta, GA, 30319-3408

High Priority

6 mi

MEDIUM PRIORITY

●

Other


Panola Road (STCRST)

Medium Priority

10 mi

Sort

3 Assignments  
Updated just now



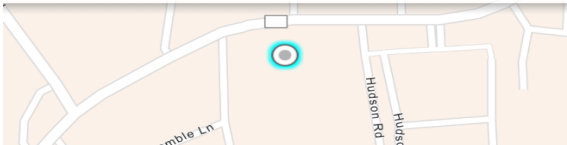


Verizon LTE12:12 PM

< List

Details

● Not Started



● 

Computer Hardware

Northlake


Critical | Added 19 hours ago

5 mi

Test

Assigned by: Stephanie Zell

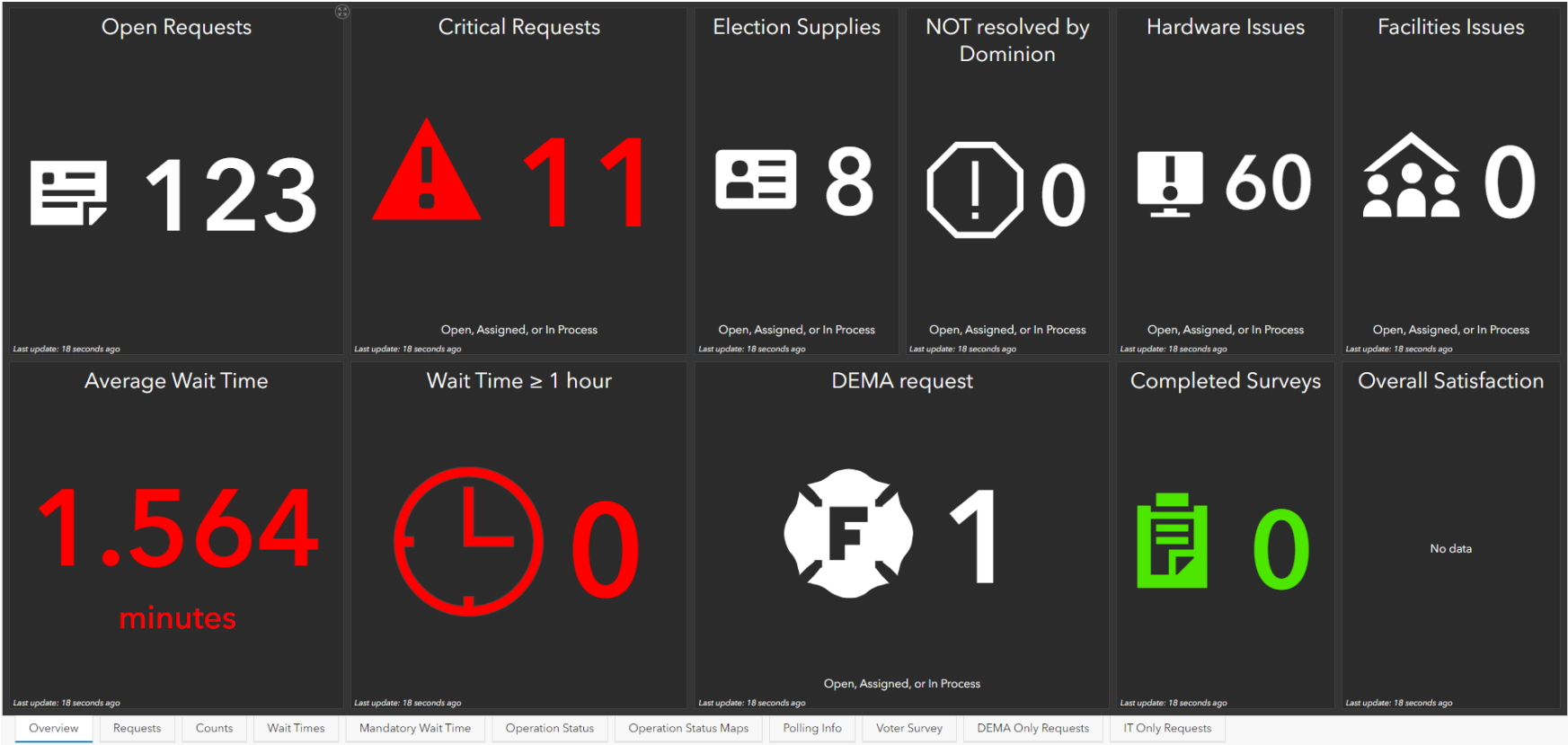
Notes

Tap  to add notes

Acknowledge

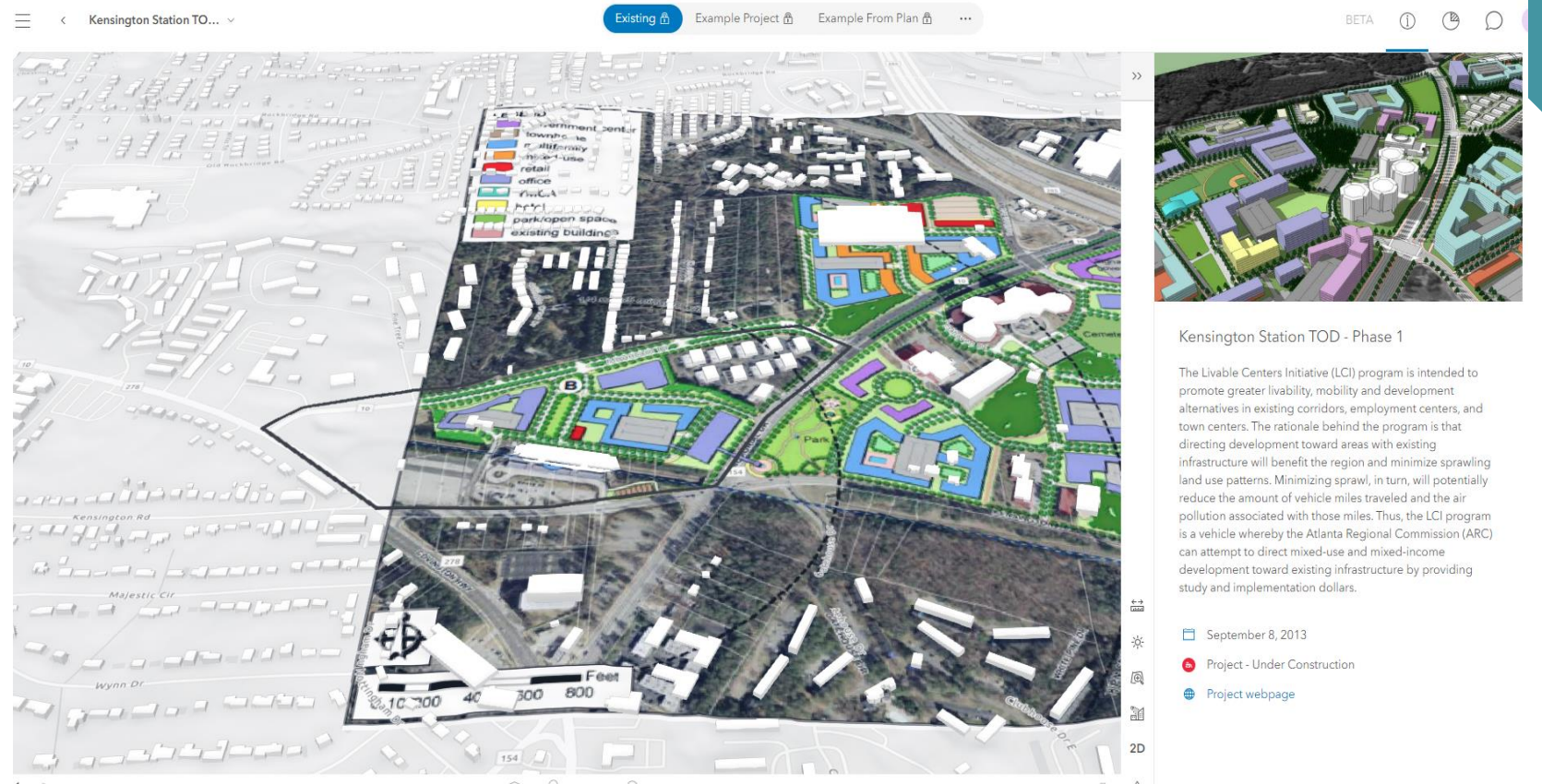


# Dashboards!



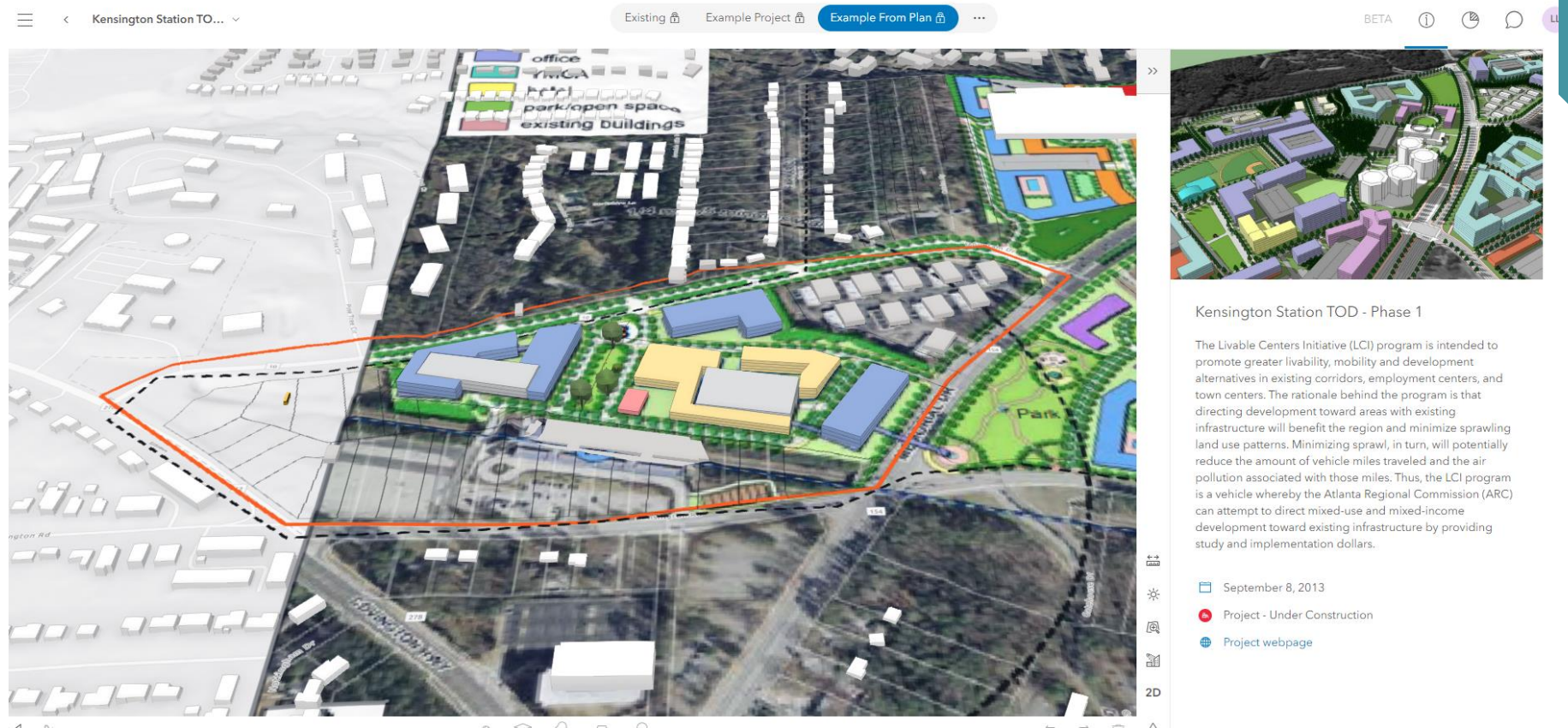
# ArcGIS Urban

- Development Scenarios
- Existing Plans
- Example Developments
- Visualize in 3D
- Public Engagement



# ArcGIS Urban

- Kensington TOD
- Example From Plan





# Drone Program

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- ArcGIS SiteScan
- Quick imagery / 3d meshes
- Highlight Projects
  - before and after with Urban
- DJI Ban?
- Remote ID
- [DeKalb County Landbank](#)
- [Decide DeKalb Film Database](#)
- Parks and Recreation Projects
- Public Works Projects

# ArcGIS SiteScan

- Cloud based imagery processing
- Licensed through ArcGIS Online
- Point cloud, ortho imagery, 3d mesh
- Manage drone fleet and pilots
- Useful for FAA reporting



# Landbank Properties



DeKalb Regional Land Bank Properties

1813 W Austin Rd, Decatur, GA, 30032

Parcel ID: 15 188 11 019  
Acreage: 0.260000  
Deed Type:  
Zoning: R-75  
Status: Under Legal Review

Submit New Application

2003 Hilda Burns Pl, Lithonia, GA, 30058

Parcel ID: 16 091 04 003  
Acreage: 0.140000  
Deed Type:  
Zoning: RSM  
Status: Under Legal Review

Submit New Application

3619 Tulip Dr, Decatur, GA, 30032

Parcel ID: 15 188 09 021

Submit New Application

Find address or place

Map showing land bank properties highlighted in pink. The map includes street names like Great Oaks Dr, Wolfborn Trce, Marbut Rd, and others. A search bar is at the top left of the map area.

An aerial photograph of a residential property. A large, dark-roofed house is visible in the lower right, surrounded by lush green trees and a well-maintained lawn. A paved road runs along the left side of the property. The image is part of a video player, with a play button and a progress bar at the bottom.

DeKalb County Landbank - 339 7th Avenue Scottdale, GA 30079

DeKalb County GIS Department

2 subscribers

Subscribe

0

Share


Save

...



# DeKalb Entertainment Commission







[Apply for a Permit](#) [Submit a Location](#) [About the DEC](#) [Events](#) [Press Releases](#) [Contact Us](#)

 **DEKALB ENTERTAINMENT COMMISSION**

[LOCATION SEARCH](#) [FAVORITED LOCATIONS](#) [INDUSTRY HUB](#)

SEARCH  [Go](#)

### Medlock Park



#### Parks and Recreation

Medlock Park is one of two parks located along the South Peachtree Creek Trail. The park includes eight softball/baseball fields, batting cages, a restroom and concessions building, two pavilions, and a playground for all ages. At the entrance if the park is a public pool with a splash pad, dive wells, and bath house. Shaded seating is available on a composite deck at the back of the pool. Separate parking areas are accessible from an east entry and south entry. The South Peachtree Creek Trail is accessed from the south parking lot.

#### LOCATION DETAILS

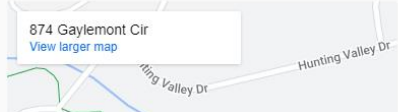
**Address:** 874 Gaylemont Cir, Decatur, GA 30033

#### CONTACT DETAILS

**Contact:** DEKALB COUNTY  
**Phone:** (404) 687-2730  
[Location Contact](#)

#### PERMIT OFFICE

**Jurisdiction:** DeKalb Entertainment Commission  
**Contact:** Shelbia Jackson  
**Phone:** (404) 687-2748  
**Email:** [Production@Dekalbentertainment.com](mailto:Production@Dekalbentertainment.com)  
[Apply For Permit](#)





# 3d Mesh of popular filming location



# Machine Learning (Deep Learning Models)

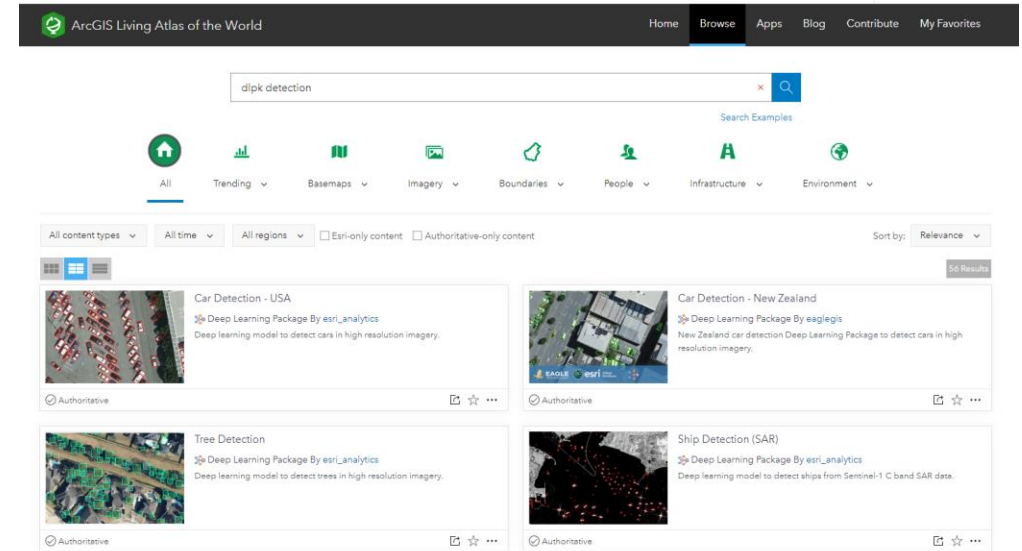
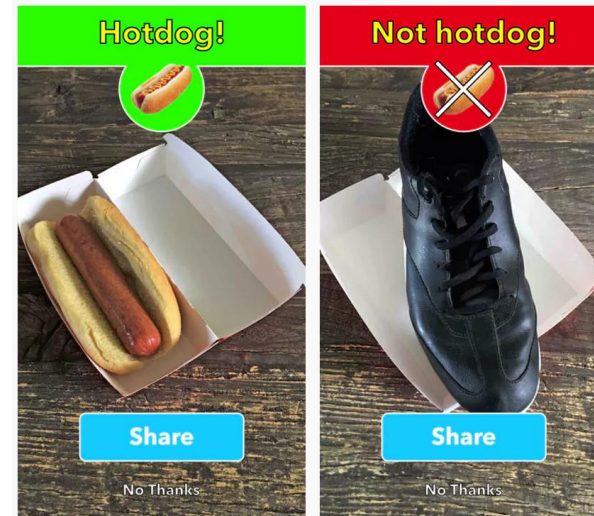
- Why?
  - Be the source of your own data

- Do you have the Power?
  - NVDA

- Data must be clean
- More data the better

- Pretrained models
  - Read the fine print

- Extract features from imagery
  - Sidewalks



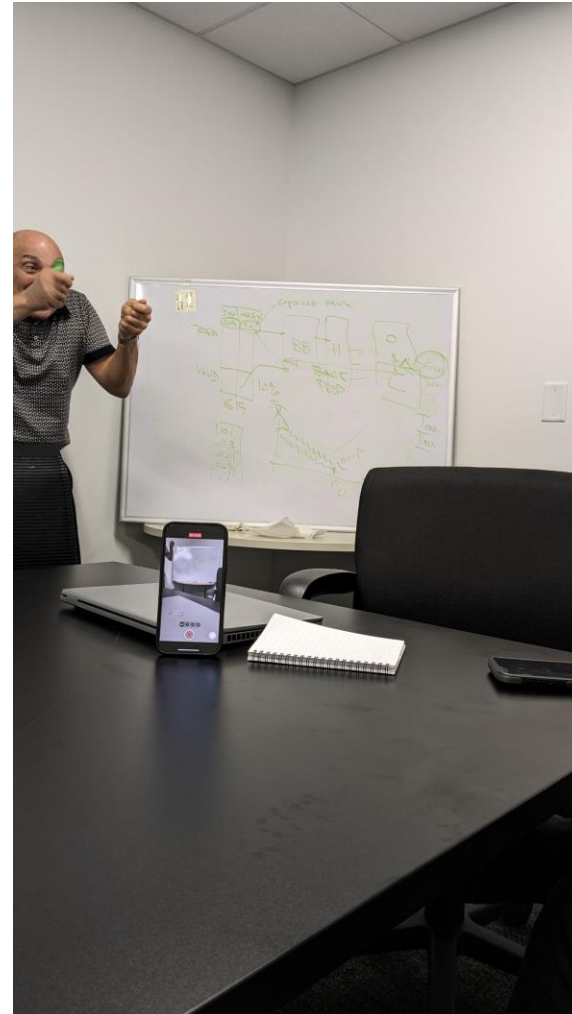
# ESRI Training

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Mansour Raad

With over 30 years of experience in the IT/GIS field, Mansour Raad is Esri's lead big data subject matter expert. In this role, he often assists commercial and government customers in implementing big data geospatial solutions. He has performed as team lead in architecting and implementing product solutions for ArcGIS. Mansour holds a master's degree in aerospace engineering from Boston University and frequently blogs on big data topics and examples of geospatial implementations at [thunderheadxplr.blogspot.com](http://thunderheadxplr.blogspot.com). He is an adjunct faculty member of Johns Hopkins University, where he teaches an online advanced placement course on "Big Data Analysis Tools and Techniques."





# First Round

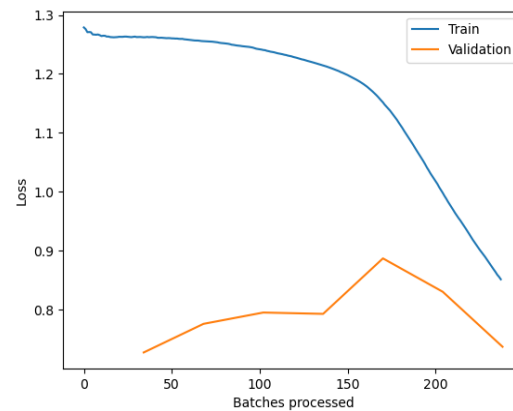
- Where to go from here?
- Clean up data
- Twist the knobs
- Get more power

DeepLab

Backbone: resnet50

Learning Rate: 1.0000e-05

Training and Validation loss

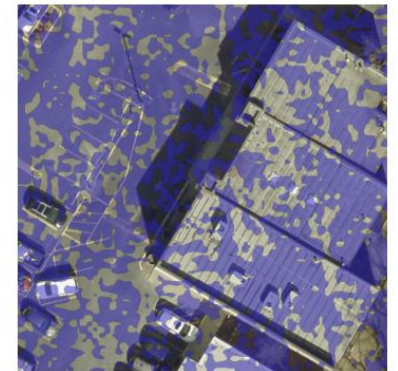
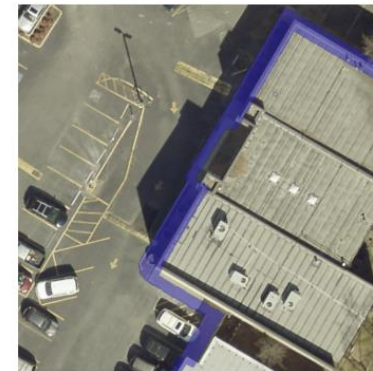
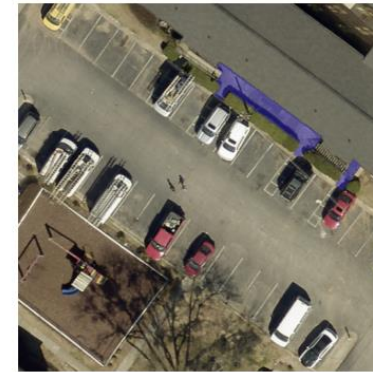


Analysis of the model

Per class metrics:

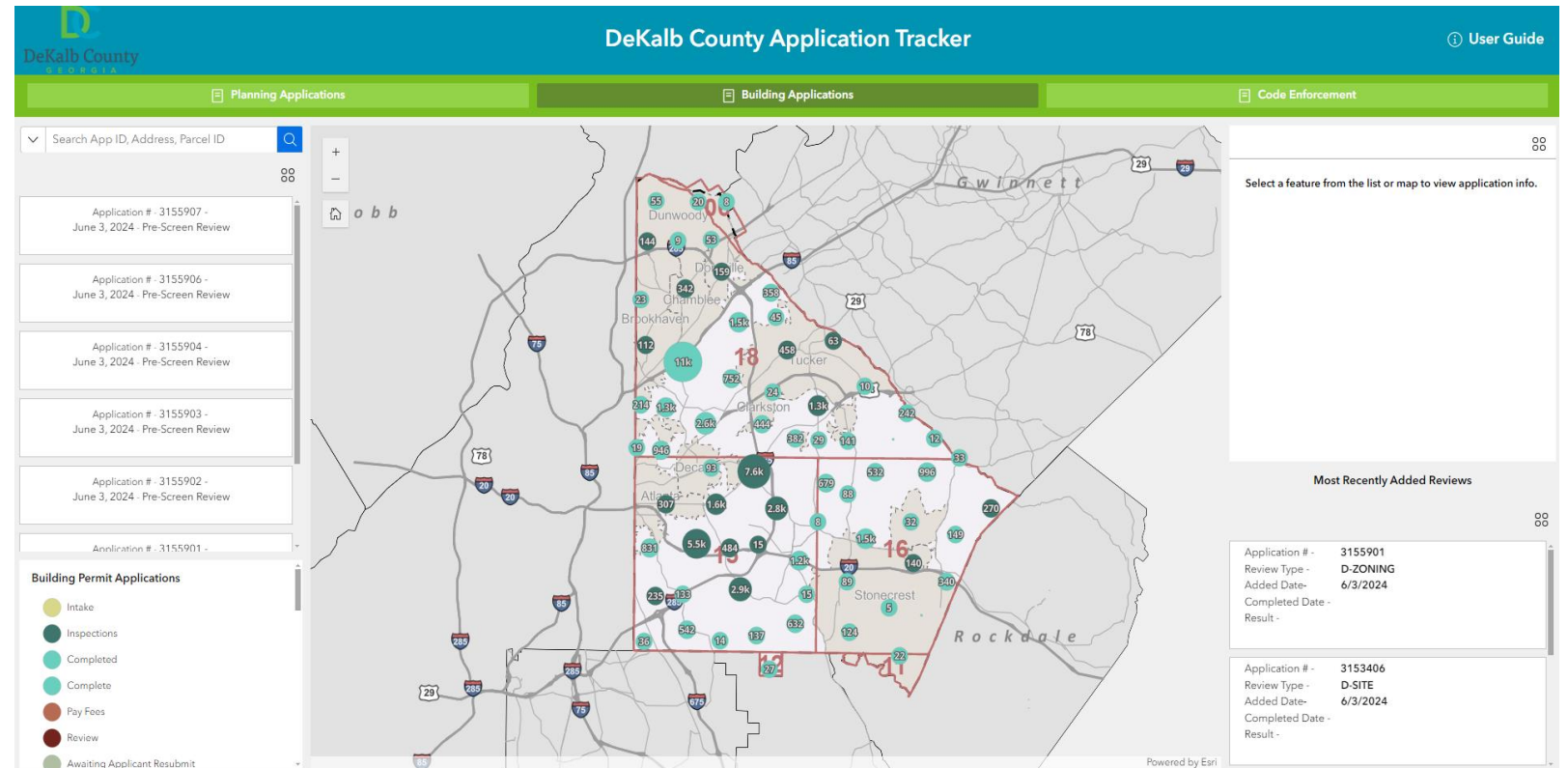
|           | NoData   | Sidewalk |
|-----------|----------|----------|
| precision | 0.964174 | 0.033677 |
| recall    | 0.324670 | 0.661123 |
| f1        | 0.485766 | 0.064089 |

Sample Results



# Building and Permit Tracker

- ArcGIS Experience Builder
- FME (Data Interop)
- Infor (Permit Application)
- Batch Server / Scheduled Tasks
  - Runs every 30 minutes or so

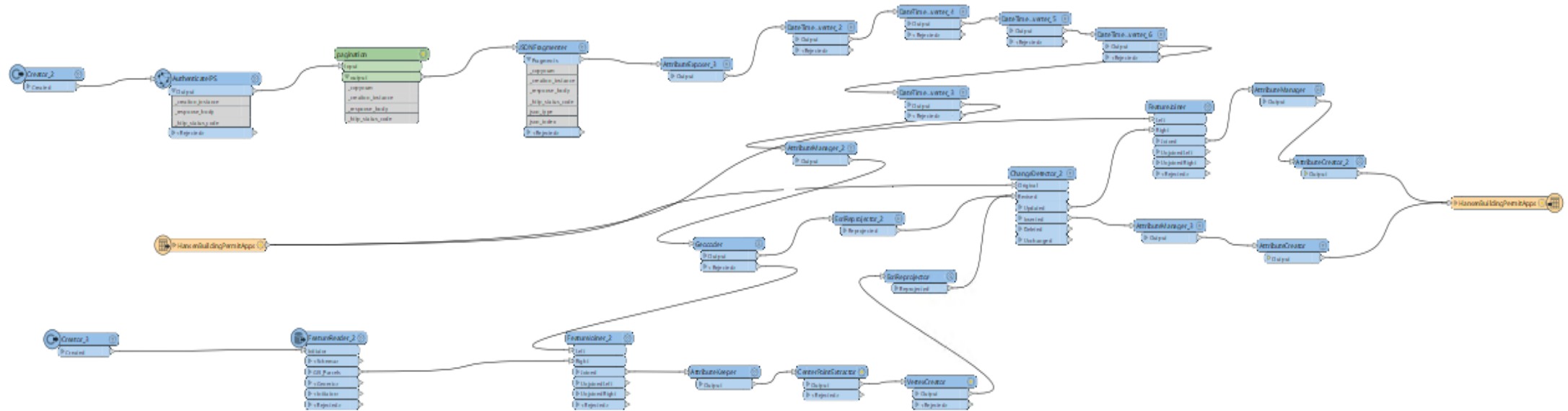


# FME (Data Interop)

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- Queries the Infor API
  - [https://\\*\\*\\*\\*\\*.cloud.infor.com/IPSRestServices/api/cdr/reviews/Planning/?Filter={Property:lastModifiedDateTime,operator:GreaterThan,value:\[Date:{Day:{Add:-1}}\]}](https://*****.cloud.infor.com/IPSRestServices/api/cdr/reviews/Planning/?Filter={Property:lastModifiedDateTime,operator:GreaterThan,value:[Date:{Day:{Add:-1}}]})
  - Paginates through the results if more than 500
  - Joins address field to address field in spatial data
  - Appends to permit layer
  - Change Detector (where the magic happens)

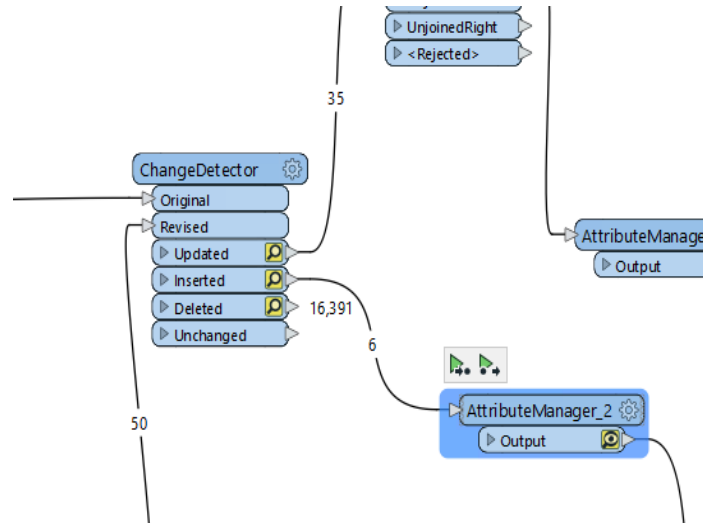
# Building Permit Updates





# Change Detector!

- Checks features based on common id
- You tell it which fields to check
- Is it new or an update?
  - Insert or update



ChangeDetector Parameters

Transformer Name:

General

Update Detection Key Attributes:

☒ Check Attributes

Attribute Matching Strategy:

Selected Attributes:

Attribute Comparisons

☐ Check Geometry

Updated Output

Mode:

Detailed Change List Name:

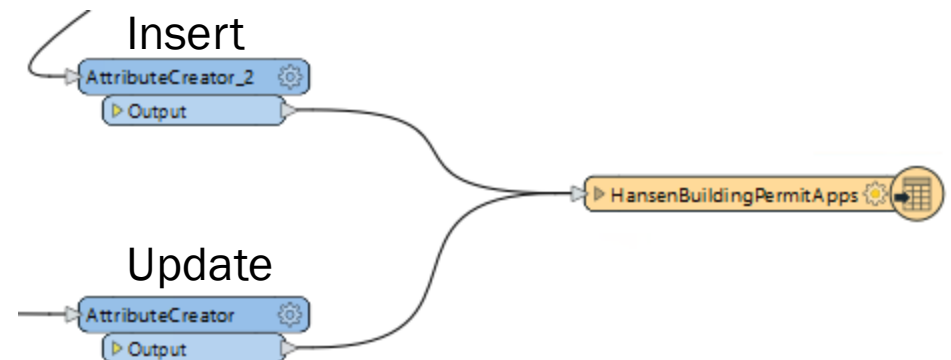
Original Attributes to Preserve:

Unchanged Output

Unchanged Output Ports:

Match ID Attribute:

Help Presets OK Cancel



# Experience Builder - Message Action

- Create Action from Permits to Review
  - One-to-many
- Click on application and get the reviews.

The screenshot displays the DeKalb County Permit Tracker application within the Experience Builder interface. The application features a map of DeKalb County with various colored markers representing different permit applications. A sidebar on the left contains navigation links for Planning Applications, Building Applications, and Code Enforcement. Below the navigation is an Outline section with a search bar and a list of application details. The main content area shows a map with a red boundary and several numbered markers. A legend at the bottom left of the map area identifies the markers by color and status: Intake (yellow), Inspections (green), Completed (blue), Complete (teal), Pay Pass (orange), Review (red), Awaiting Applicant Resubmit (purple), and Pre-Screen Review (pink). The right sidebar contains the Action settings panel, which is configured for a 'Message action'. The 'Trigger data' is set to 'Building Permit Application'. The 'Action data' is set to 'Hansen Building Review'. The 'Conditions' section shows two conditions: 'Application #' and 'application\_id'. The 'Record selection changes' section is also visible, showing a 'Framework' and 'Filter data records' option.

# DEMO

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- [App](#)



# Thank you

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Leo Ladefian

[laladefian@dekalbcountyga.gov](mailto:laladefian@dekalbcountyga.gov)