

2023 URBAN TREE CANOPY ASSESSMENT

*COMMISSIONED BY
THE CITY OF ATLANTA*



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CENTER FOR URBAN RESILIENCE AND ANALYTICS

CREATING THE NEXT



AGENDA

- What is a Canopy Study?
- Project History
- Canopy Assessment Methods
- 2023 Results
- Canopy Change 2018 to 2023
- Canopy Change 2008 to 2023
- Site Visits
- Interpreting Change
- Recommendations



photo by Kathryn Kolb

WHAT IS A CANOPY STUDY?

Canopy: tree leaves, branches, and stems that cover the ground when viewed from above

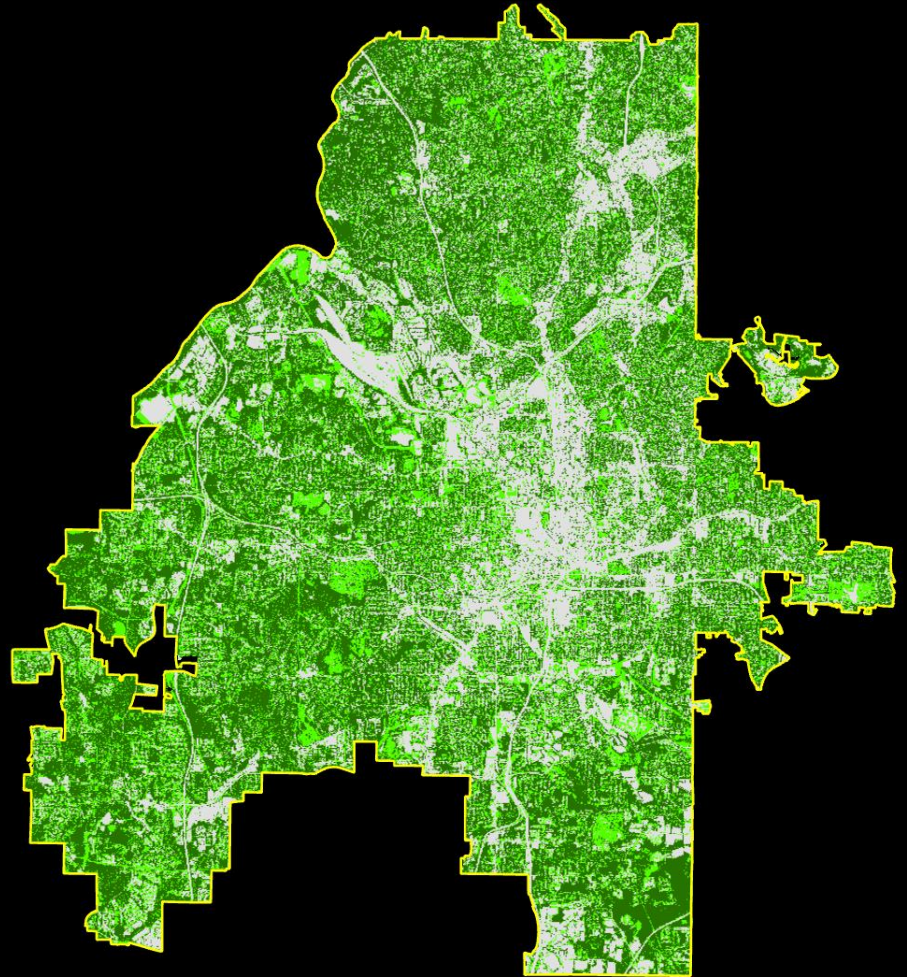
- Powerful “bird’s eye view”
- Reveals *patterns* of change
 - Growth and loss to be expected
 - Informed canopy *estimate*
 - Ground-truthing and other data help interpret patterns of change
- Measures quantity, not quality

Goal: inform decision-making, policy, & sustainability efforts



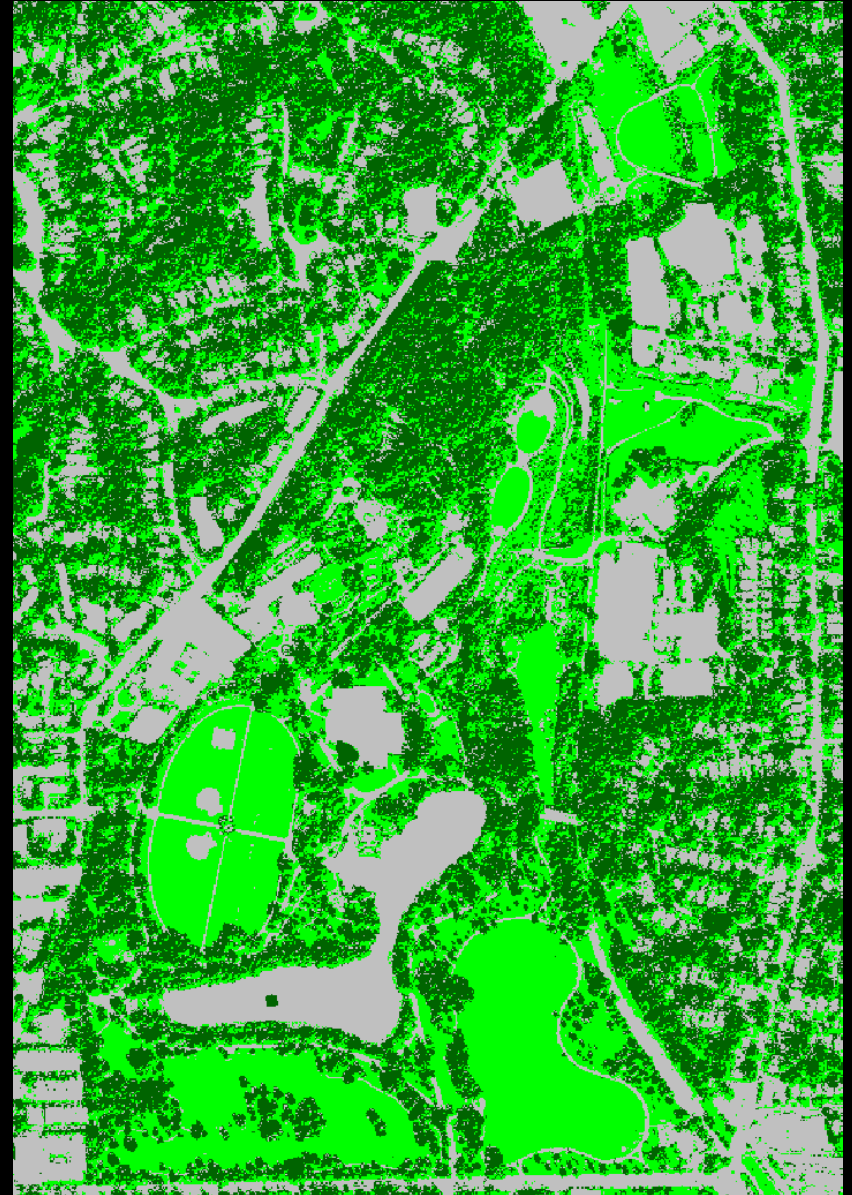
PROJECT HISTORY

- PHASE I
2008 Baseline Canopy Analysis
- PHASE II
2014 Canopy Analysis Update
- PHASE III
2018 Canopy Analysis Update
- PHASE IV
2023 Canopy Analysis Update
- Canopy Change Analysis
2018 -2023 and 2008 -2023



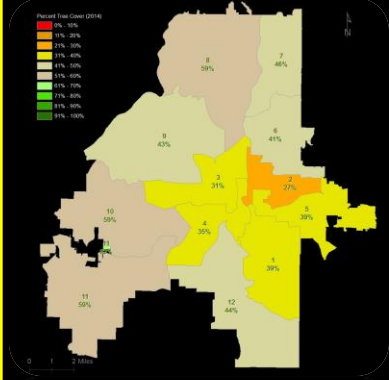
CANOPY ASSESSMENT METHODS

- Obtained satellite imagery taken in late summer
- Determined land cover through supervised imagery classification
- Three classes of land cover
 - Trees
 - Non-Tree Vegetation (NTV)
 - Non-Vegetation (NV)
- Manual classification performed to improve accuracy
- Conduct accuracy assessments
- Field verification to qualify findings

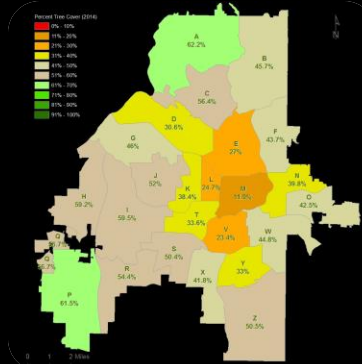


GEOGRAPHIC SUMMARIES: QUANTIFYING CANOPY

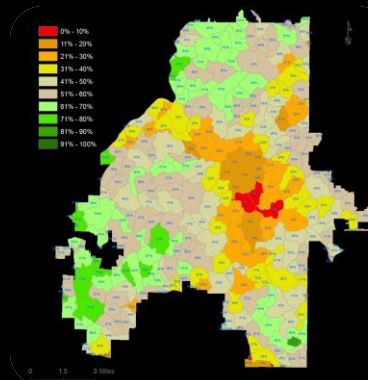
Council Districts



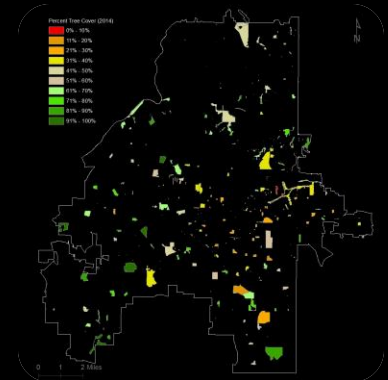
NPU



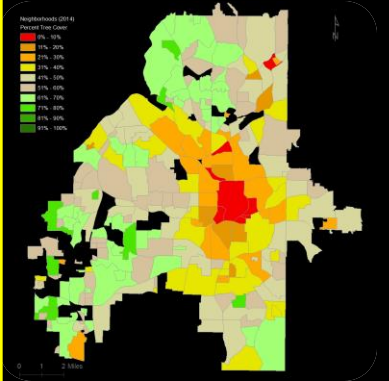
Small Watersheds



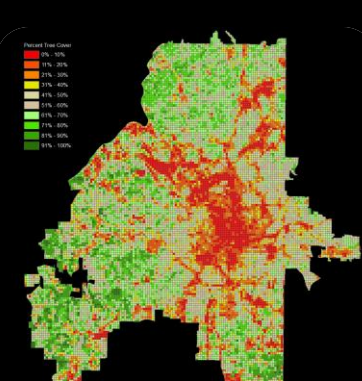
Parks



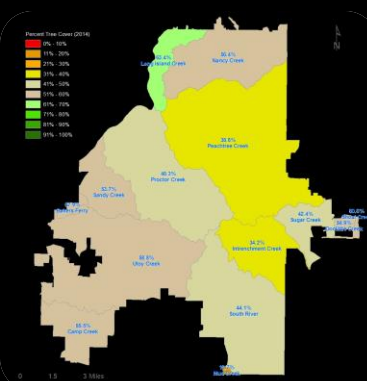
Neighborhoods



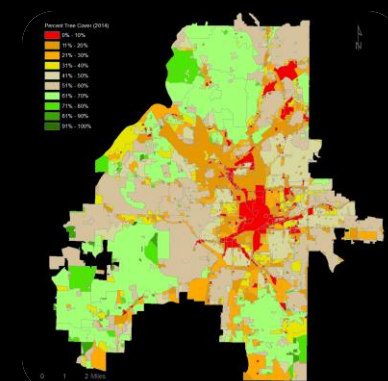
City Grid (6 Acres)



Watersheds



Zoning



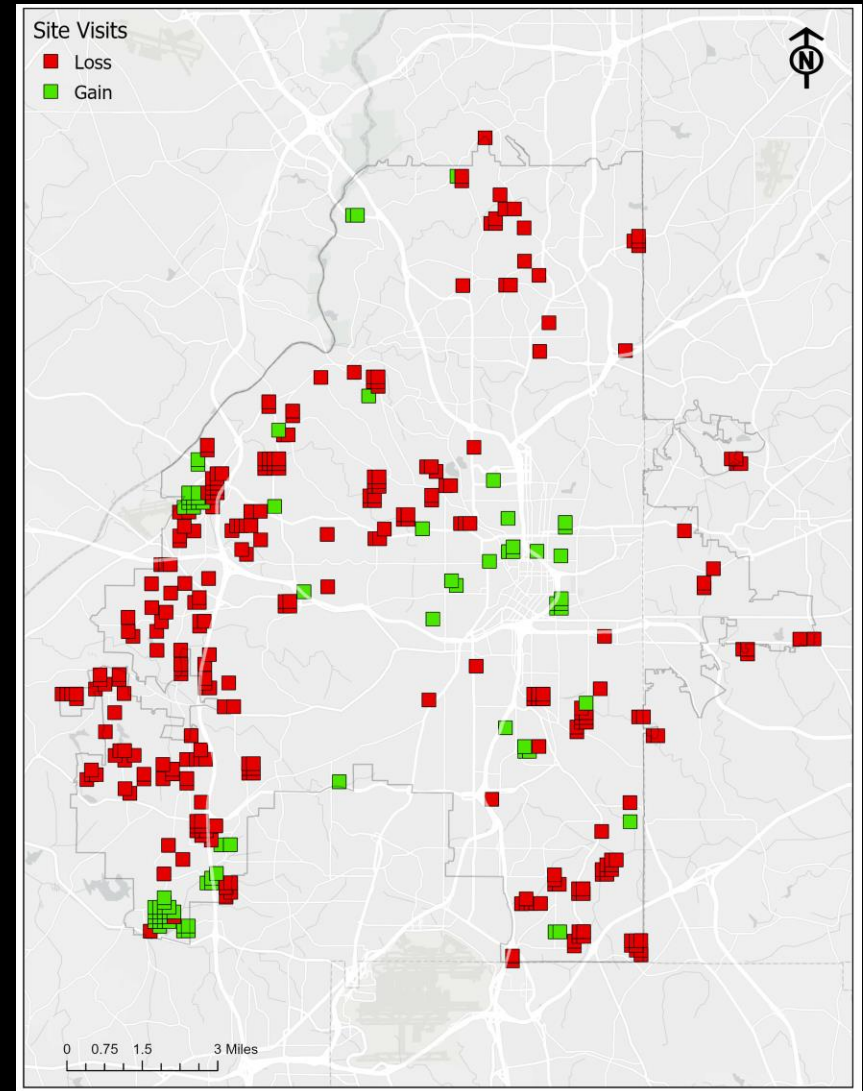
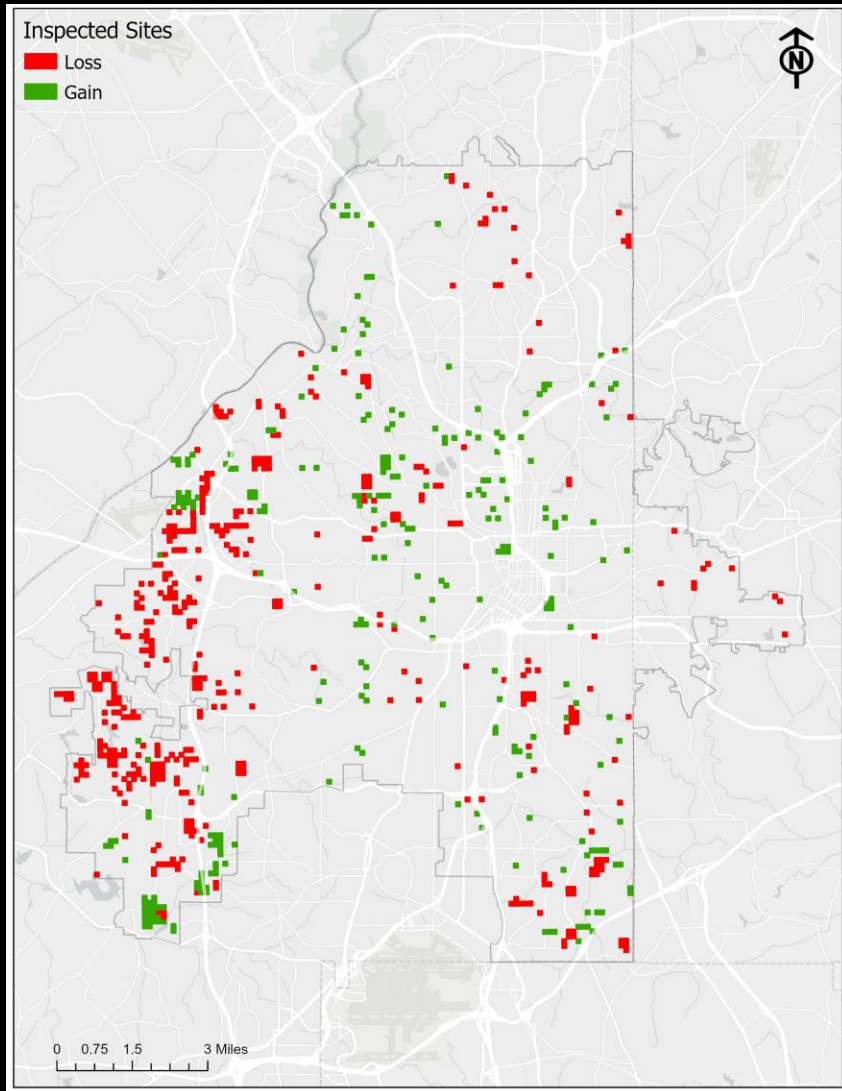
Jurisdiction

Location

Environmental

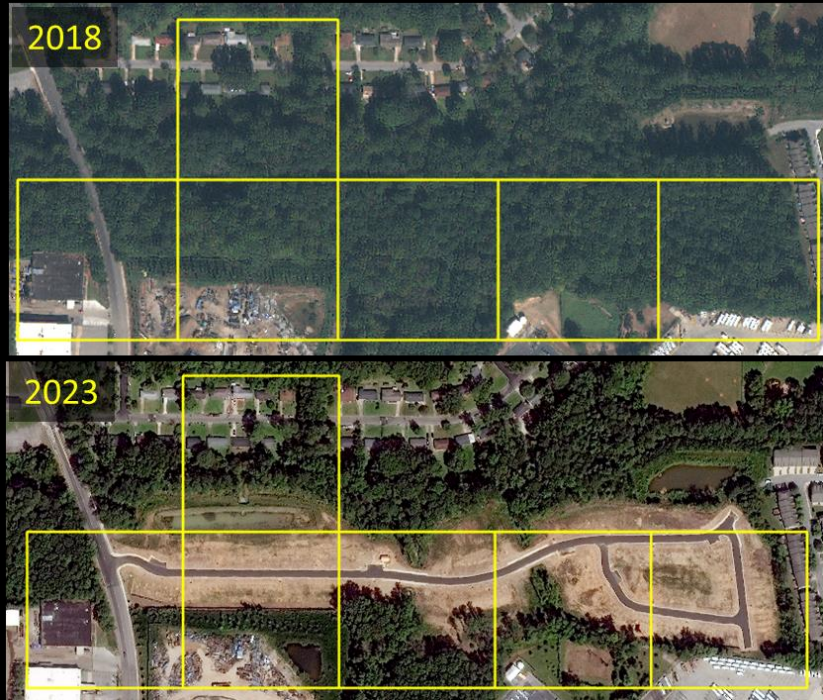
Land Use - Policy

QUALITATIVE ASSESSESSMENT OF CANOPY CHANGE (2018-2023): SITE VISITS AND INSPECTIONS



QUALITATIVE ASSESSMENT OF CHANGE: SITE VISITS

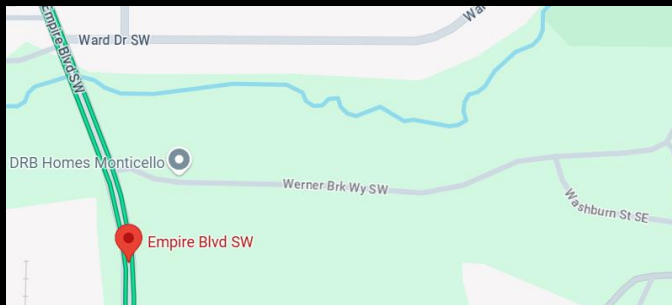
Forested area near stream



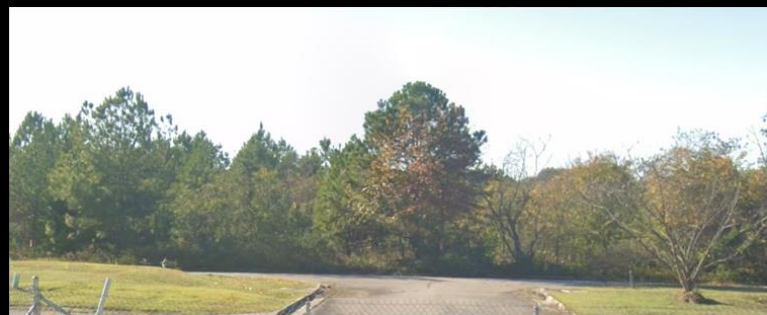
Cleared for development



New townhomes



SITE VISITS AND INSPECTIONS



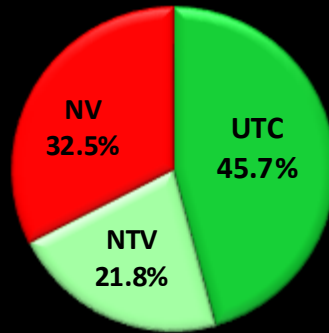
Regrowth on cleared land

RESULTS

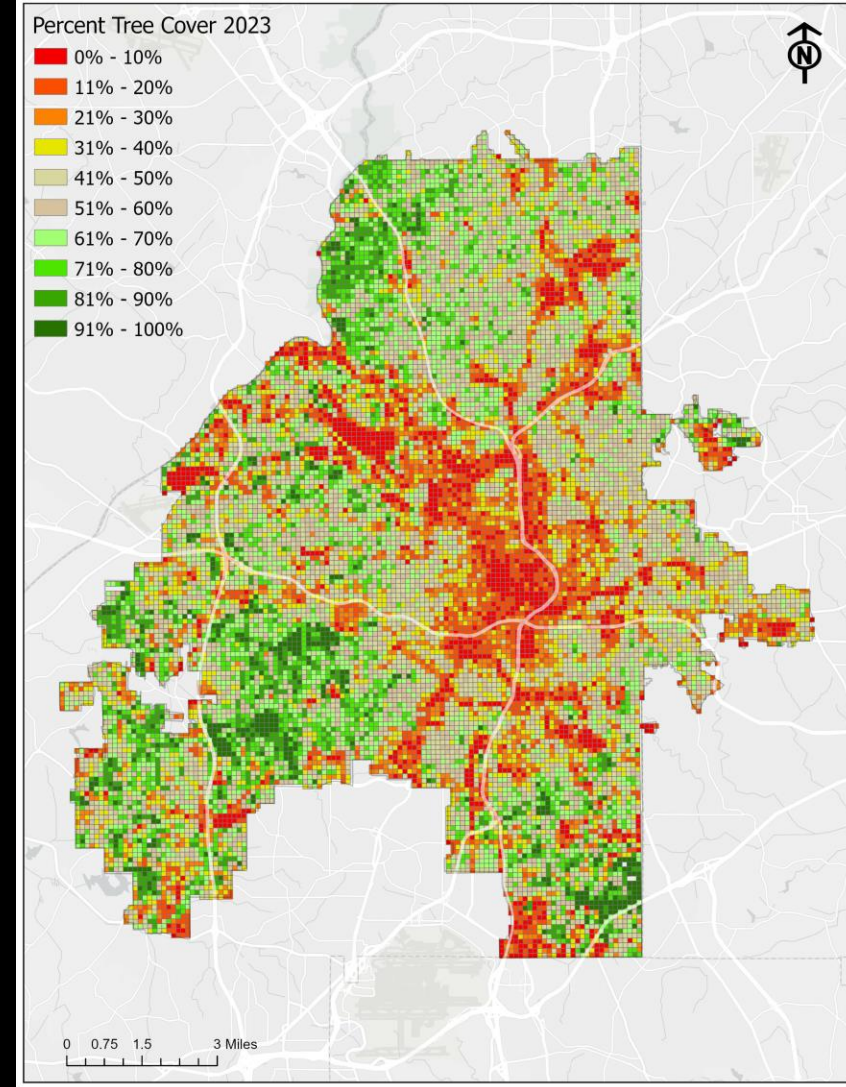


Photo by Kathryn Kolb
Lionel Hampton-Beecher Hills Nature Preserve

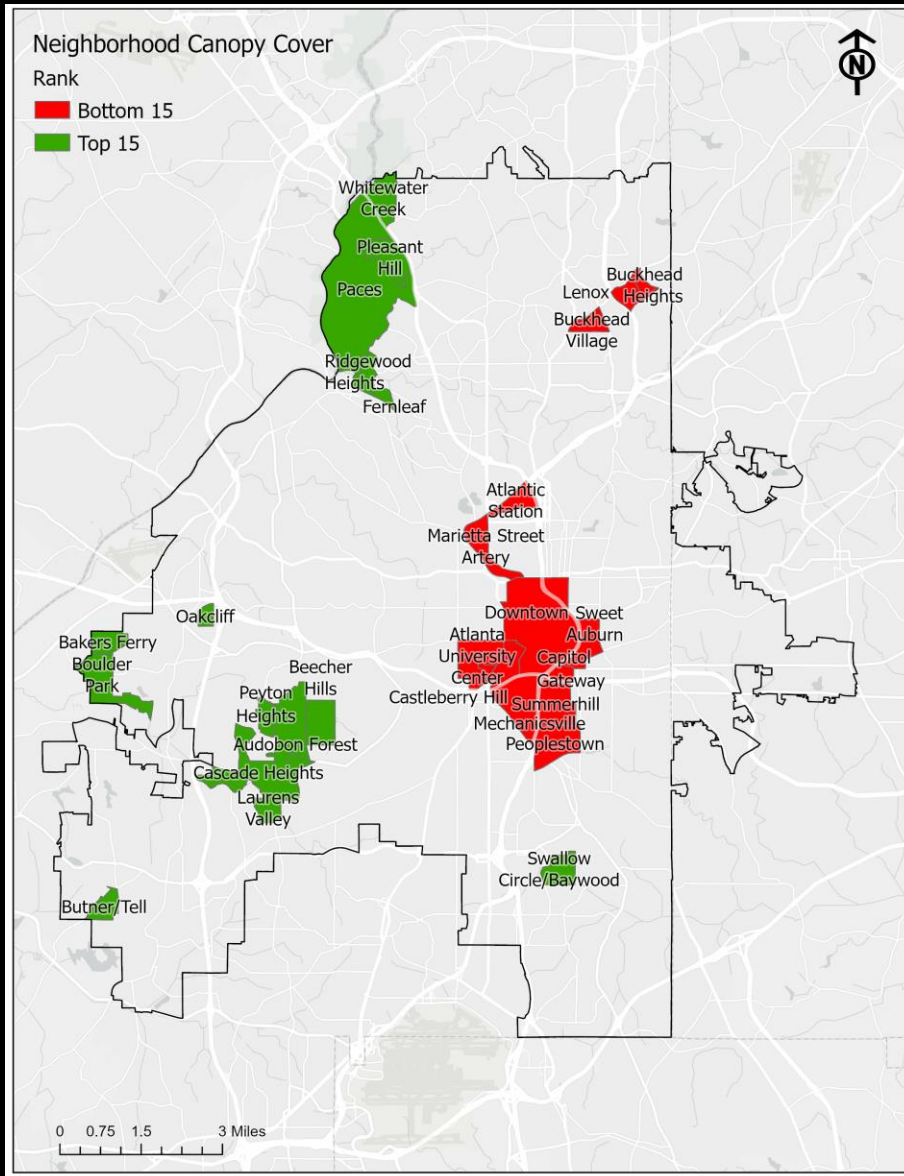
FINDINGS: 2023 UTC ASSESSMENT



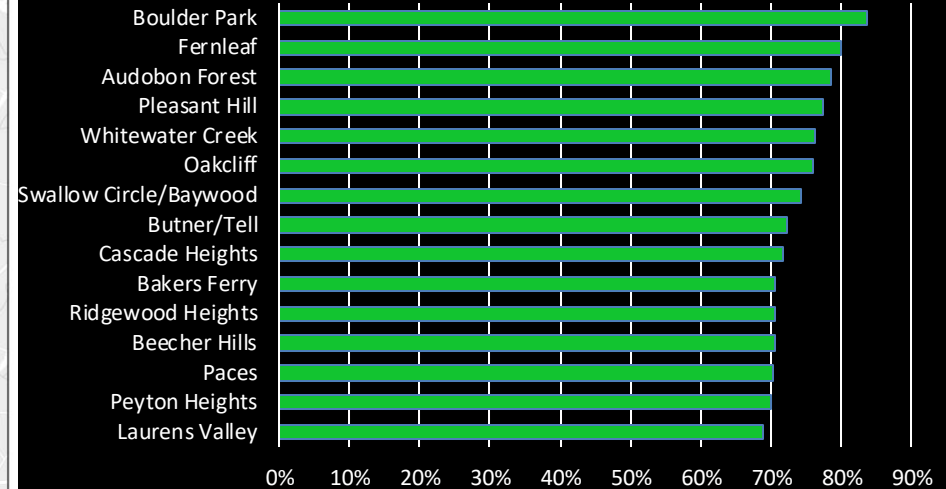
- 45.7 % canopy cover in 2023
- Canopy varies greatly by *neighborhood*:
 - Highest: 83.6% in Boulder Park
 - Lowest: 2.8% in Oakland
- Canopy varies greatly by *watershed*:
 - 6% in a section of Proctor Creek
 - 85% in sections of Utoy Creek and South River
- Canopy distribution by *zoning category*:
 - Single-family - 72% (28,713 acres)
 - Multi-family - 9.9% (3,954 acres)
 - Industrial - 6.0% (2,392 acres)
- Canopy is lowest centrally & along corridors extending from the center. The highest canopy areas are in the Southwest and some areas of the Northwest and Southeast, furthest from the center.



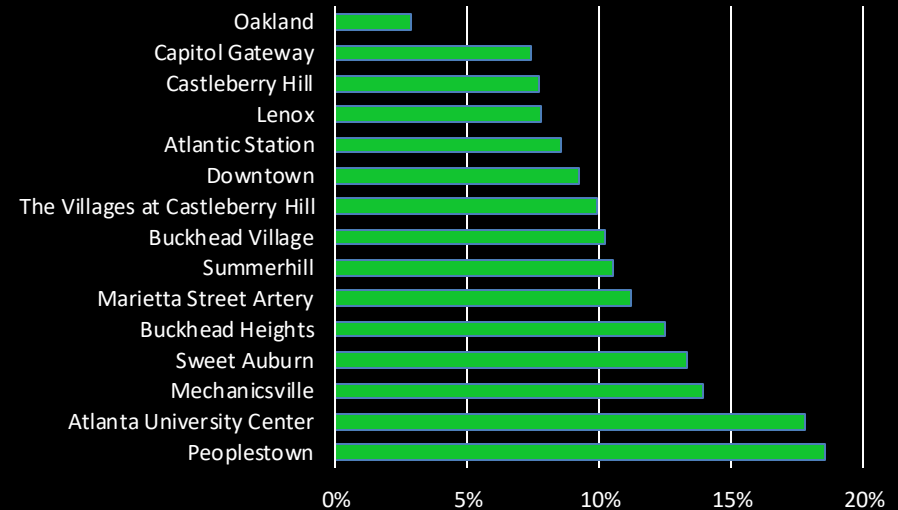
FINDINGS: 2023 CANOPY - NEIGHBORHOODS



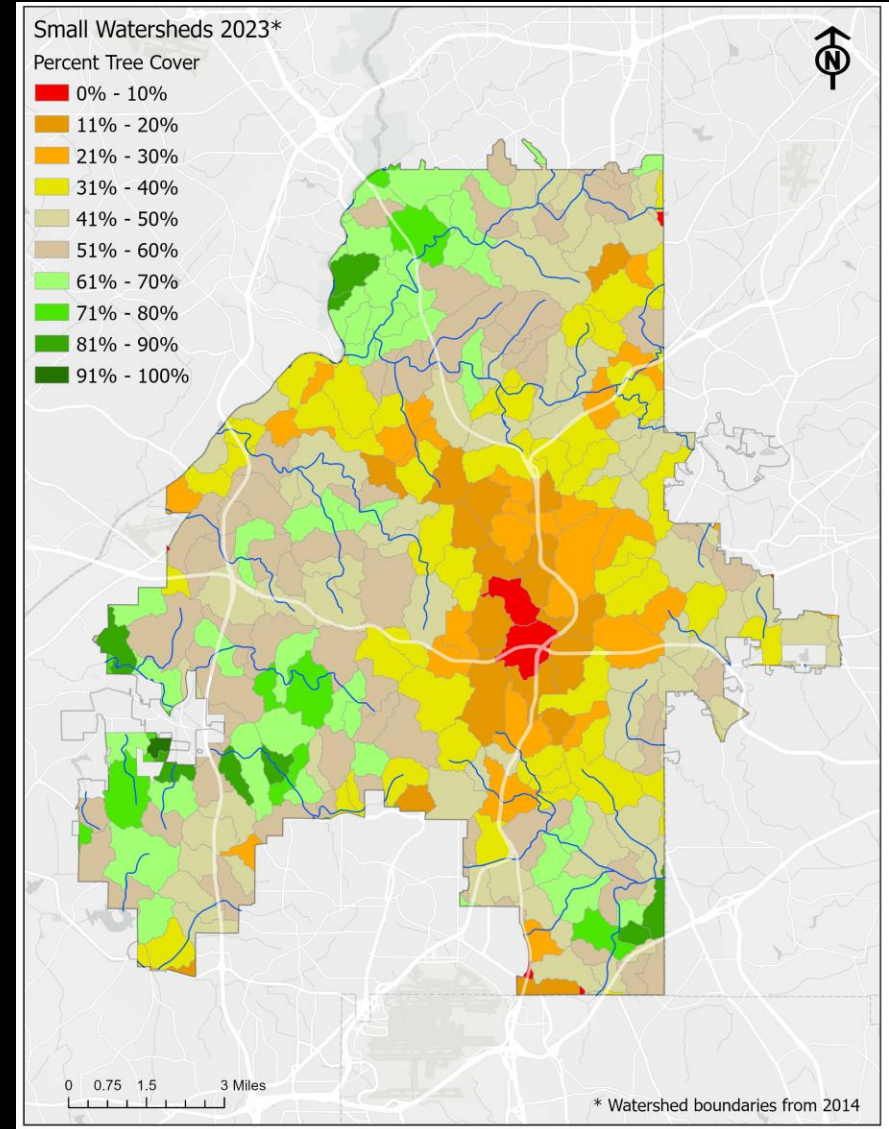
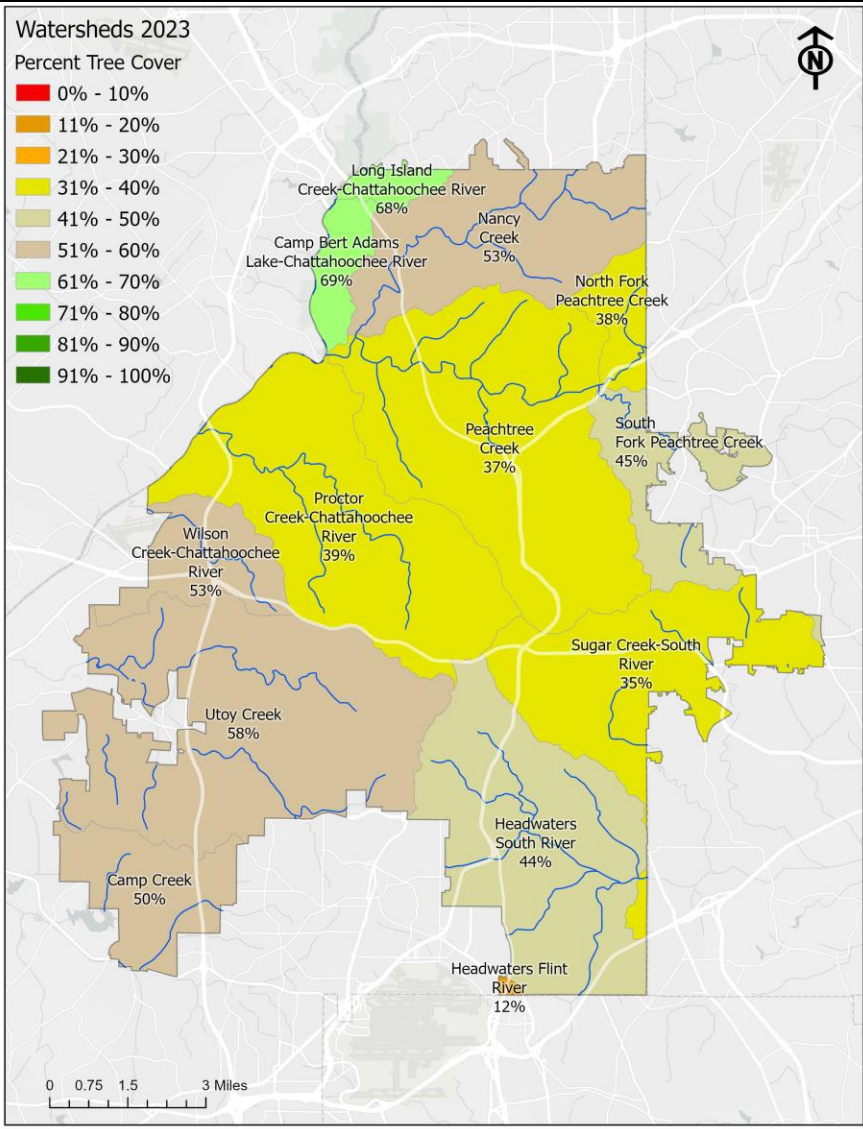
Top 15 (69% to 84%)



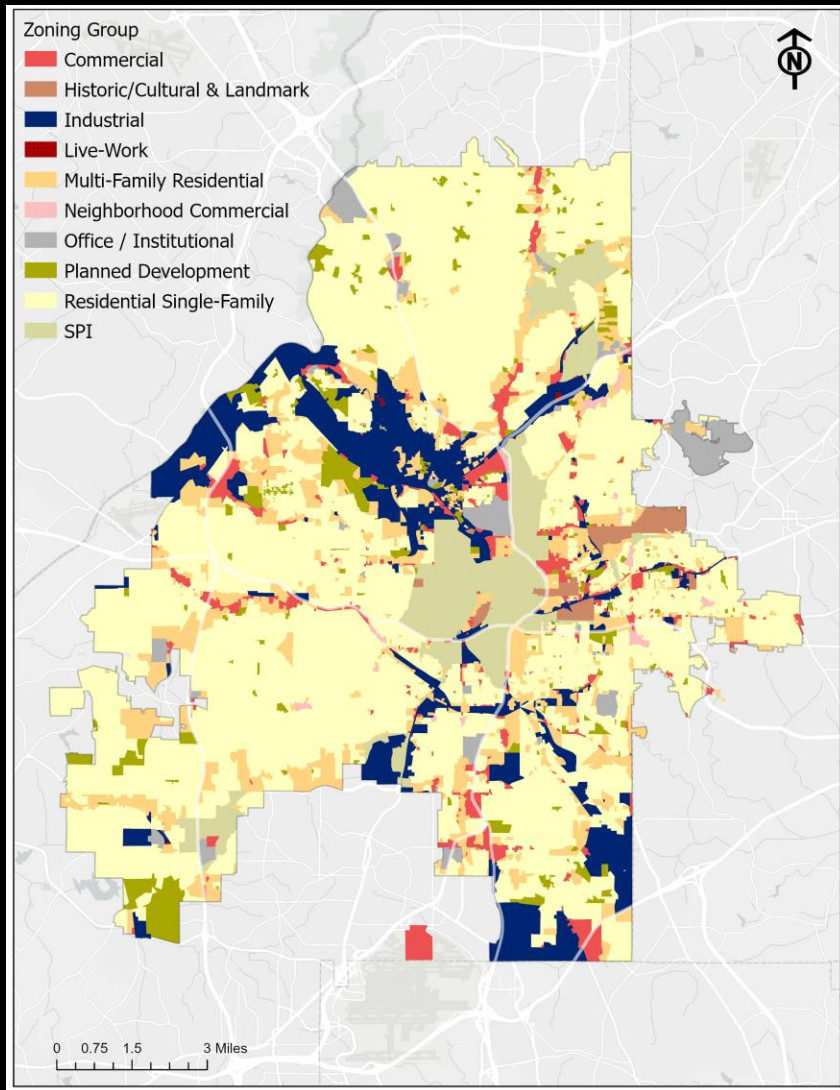
Bottom 15 (3% to 19%)



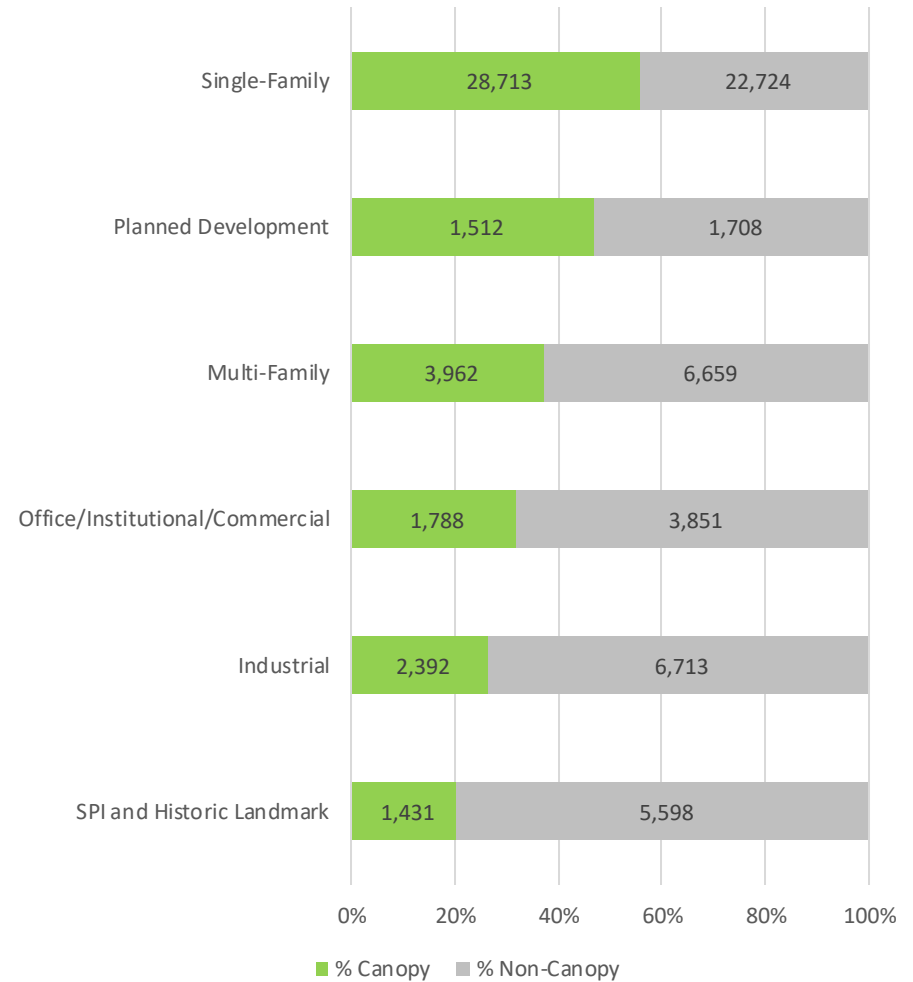
FINDINGS: 2023 CANOPY WATERSHEDS



FINDINGS: ZONING AND CANOPY



Percent Canopy by Zoning (acres in bar)



FINDINGS: RIGHT-OF-WAY

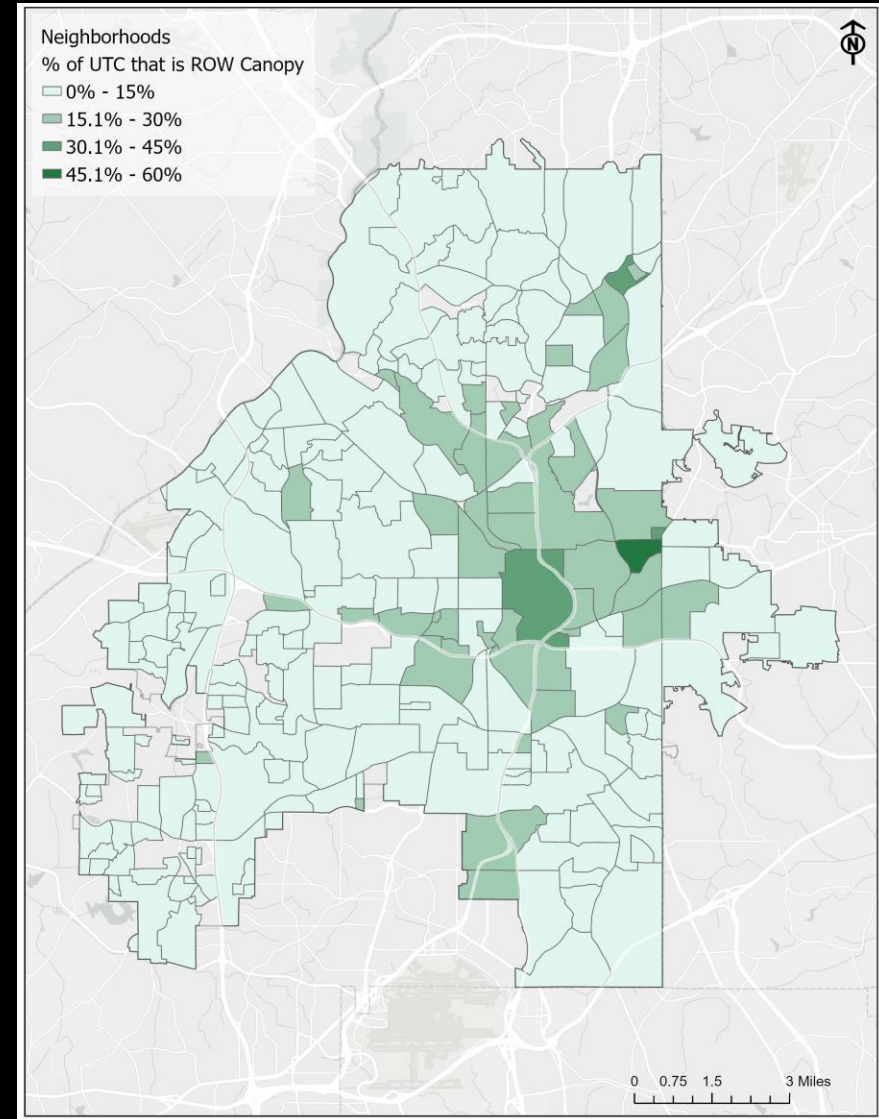
- 15% of City land is ROW (~ 13,000 acres).
- 30% of the ROW is covered by canopy.
- 10% of Atlanta's total canopy is in the right-of-way.

Note: Overestimates ROW around Freedom Park and Interstate corridors; underestimates ROW canopy in Emory area.



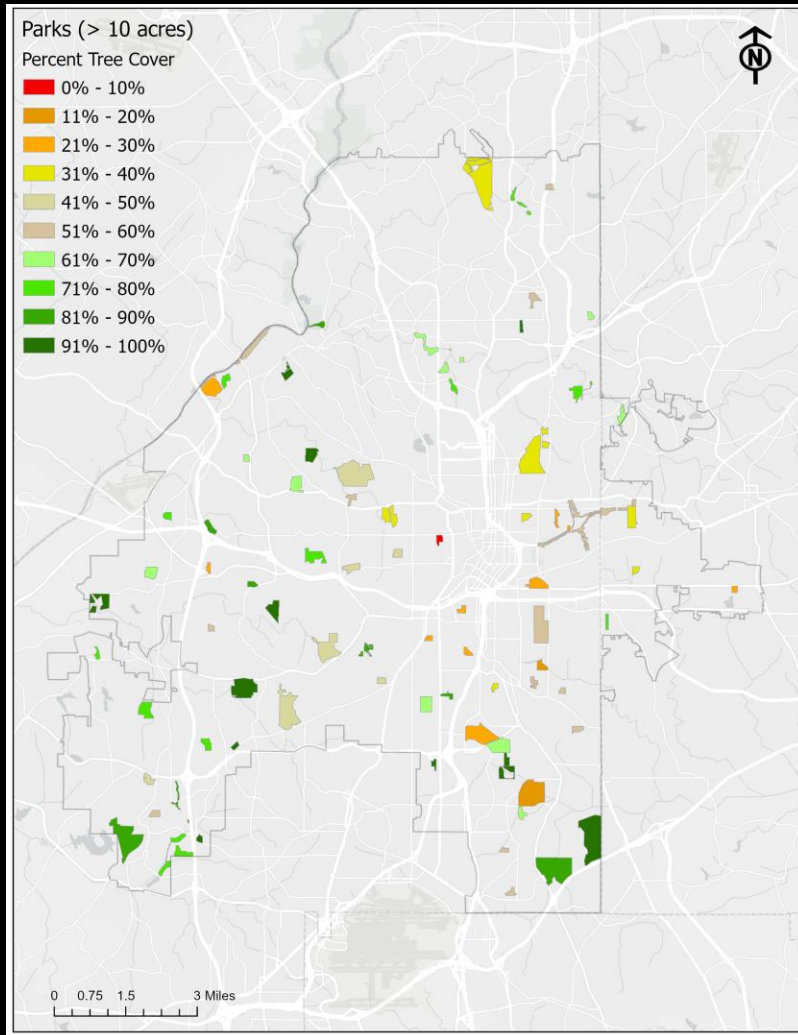
FINDINGS: RIGHT-OF-WAY CANOPY BY NEIGHBORHOOD

- The ROW makes up 44% of *land* in Poncey-Highland and less than 1% of *land* in Regency Trace and South Oaks at Cascade.
- The percent of *canopy coverage* of the right-of-way ranges from 76.8% in Fernleaf to less than 2% in five neighborhoods (Oakland)
- The percent of the *neighborhood's canopy* in the right-of-way ranges from < 5% (in several neighborhoods) to 55% in Poncey-Highland (where 50 of the neighborhood's 70 canopy acres are in the ROW).

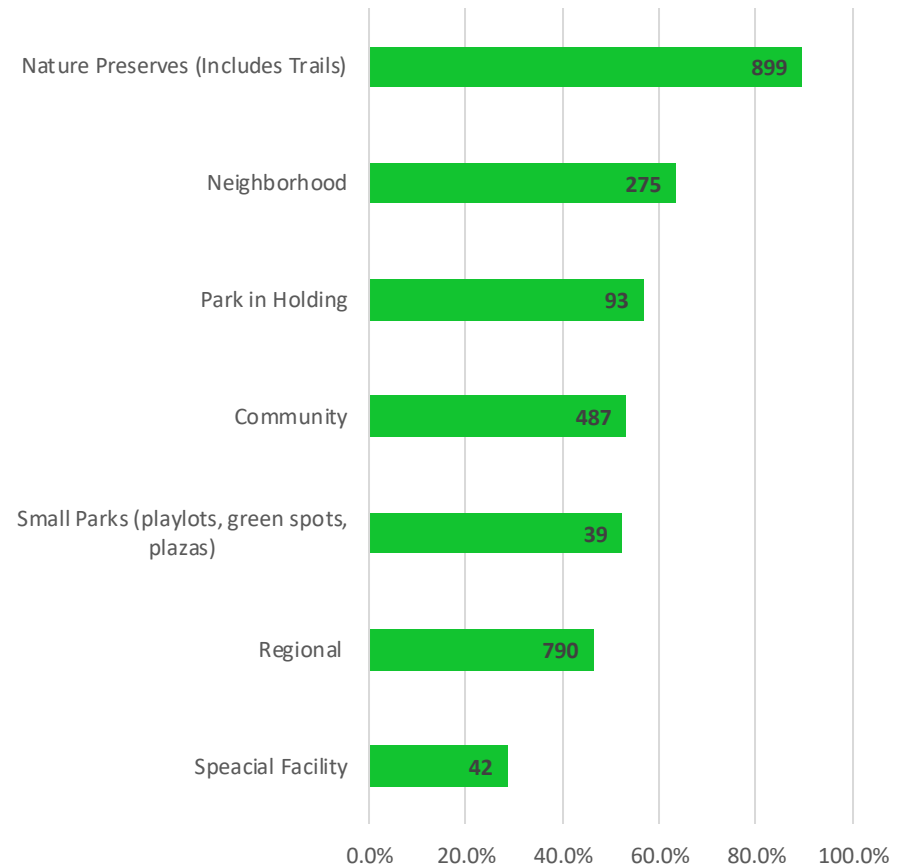


FINDINGS: 2023 CANOPY - PARKS

City parks make up ~5.1% of the city's land and have ~7% of the city's canopy



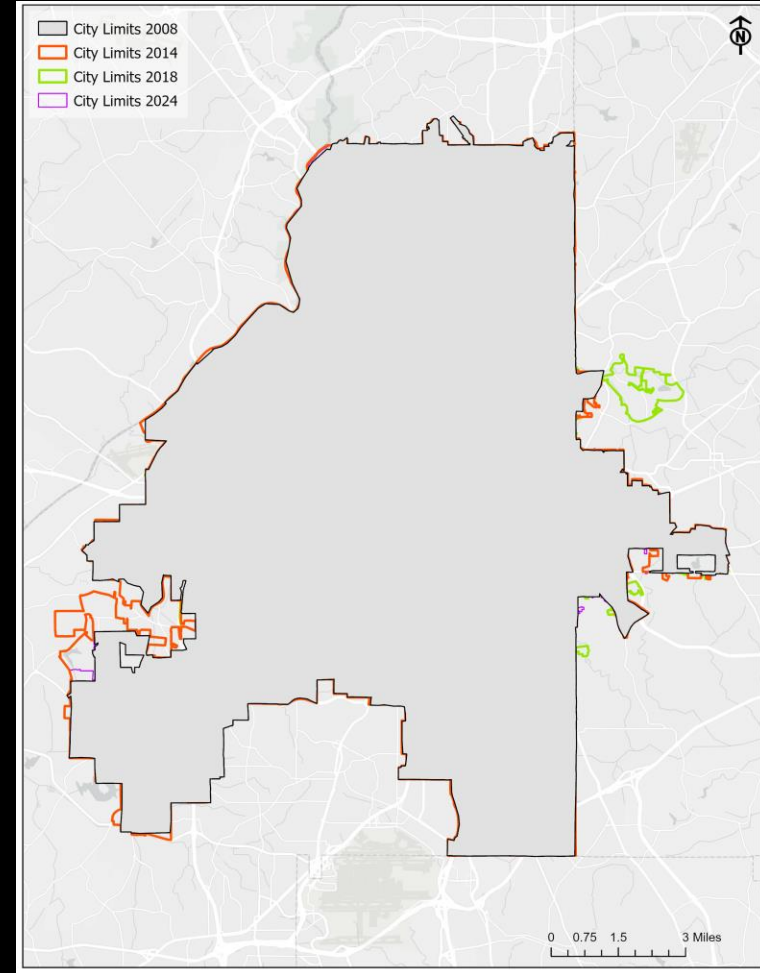
Percent Canopy Cover by Park Type (acres in bar)



CANOPY CHANGE

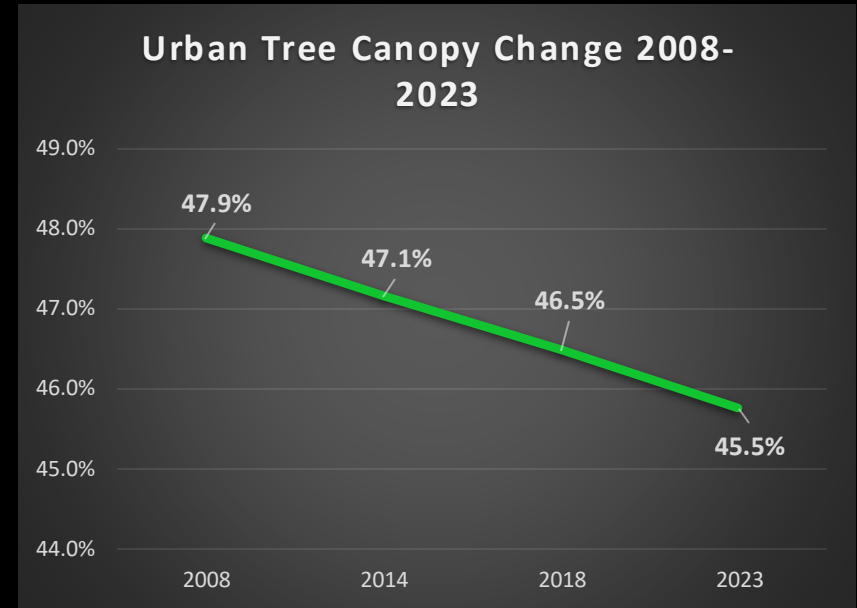
CANOPY CHANGE 2018-2023: QUANTIFIABLE CHANGE TRENDS

- Quantifying canopy change between 2008 and 2023 is challenging because the City has annexed ~3,000 acres (4.5 sq mi) since 2008. (2018 and 2023 are comparable).
- ~780 acres of net canopy loss between 2018 and 2023.
- Lost approximately .43 acres per day.



CANOPY CHANGE 2008-2023: QUANTIFIABLE CHANGE TRENDS

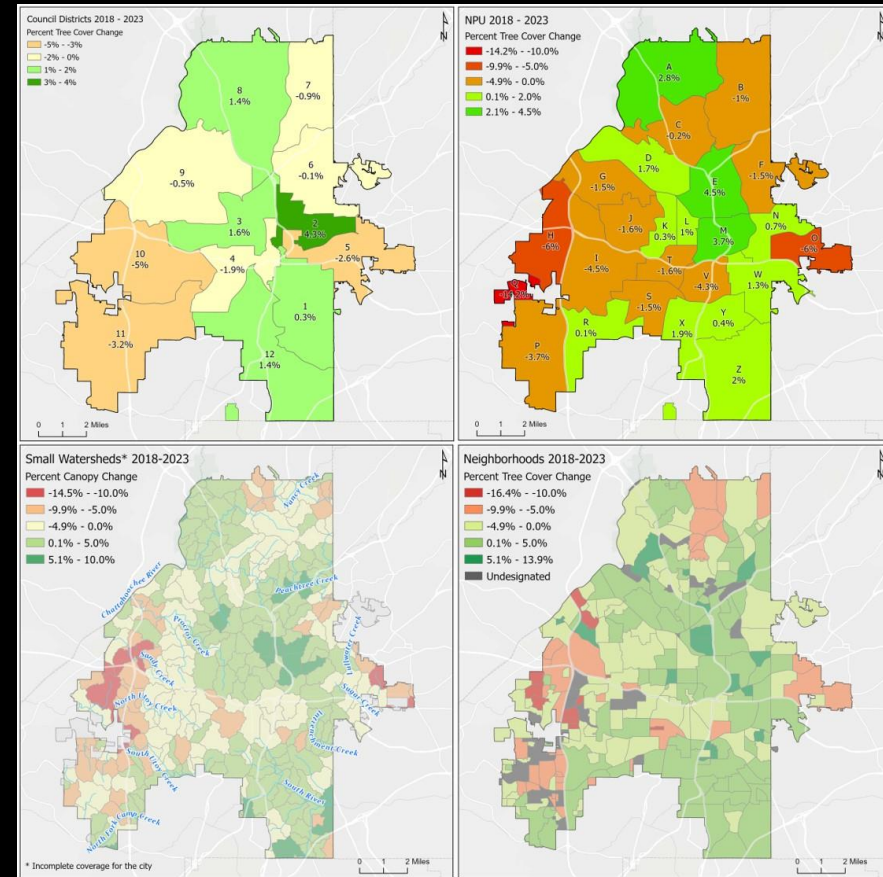
- Estimate of city-wide canopy decrease:
 - 47.9% (2008)
 - 45.5%* (2023) or ~2,000 acres
- Does not account for temporary growth or invasive regrowth after clearing (which inflates the canopy estimate)



**Change calculated to 2008 boundary*

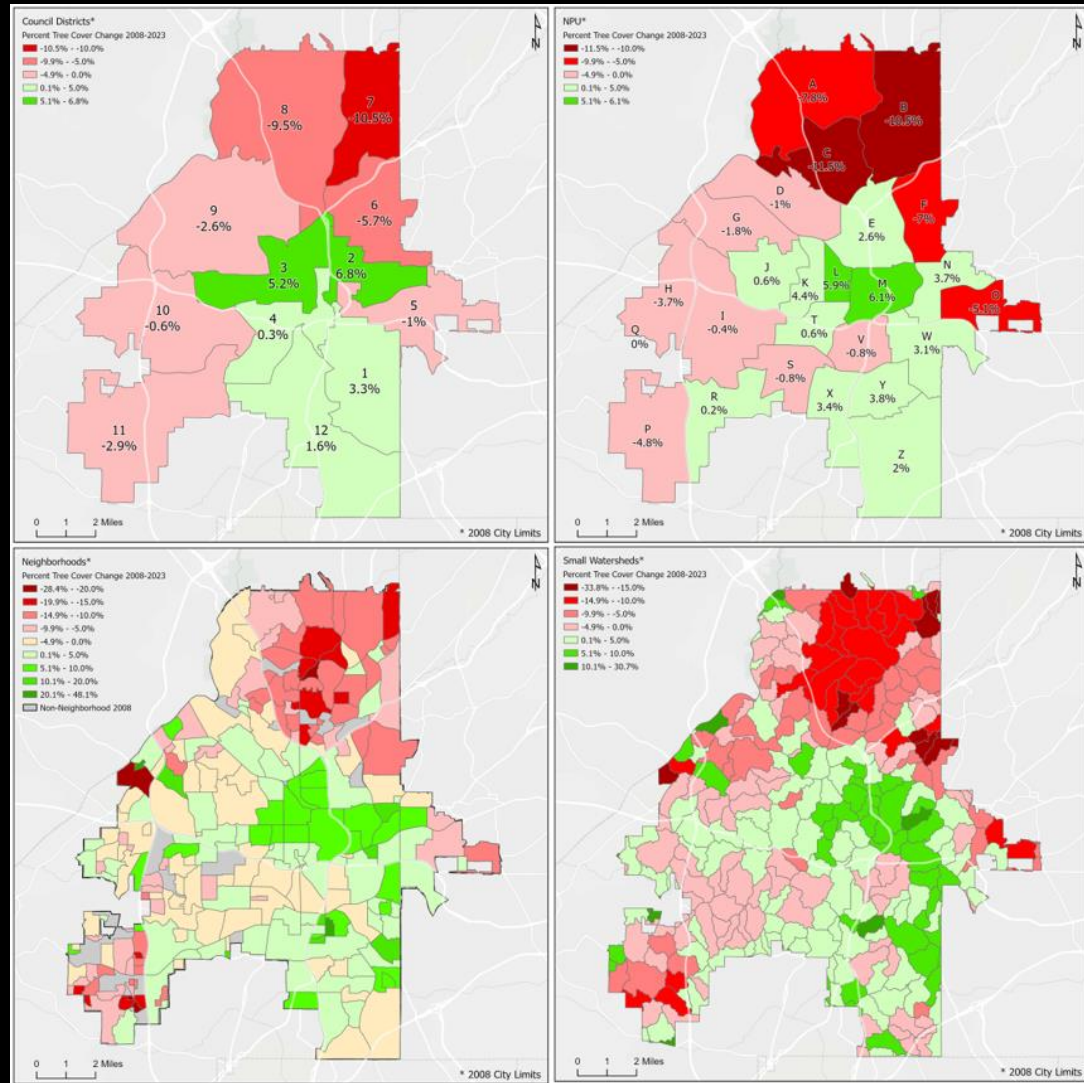
CANOPY CHANGE 2018-2023

- Canopy loss correlates with development activity
 - Significant loss in West, East, SW
 - Greatest cumulative loss due to residential developments (multi-family and single-family)
 - Greatest per-site loss (30-40 acres) on multiple sites (multi-family, industrial)
- Significant loss from large tree removal/loss in SW
- The greatest canopy gains were in central Atlanta (street trees)
- Significant gain from the growth of young trees, greatest gains in central Atlanta (street trees).
- Significant gain from “regrowth” on cleared sites, greatest gain +25 acres (Fulton Industrial regrowth)
- Significant change in tree *quality* (younger, smaller, less biodiversity)



CANOPY CHANGE 2008-2023

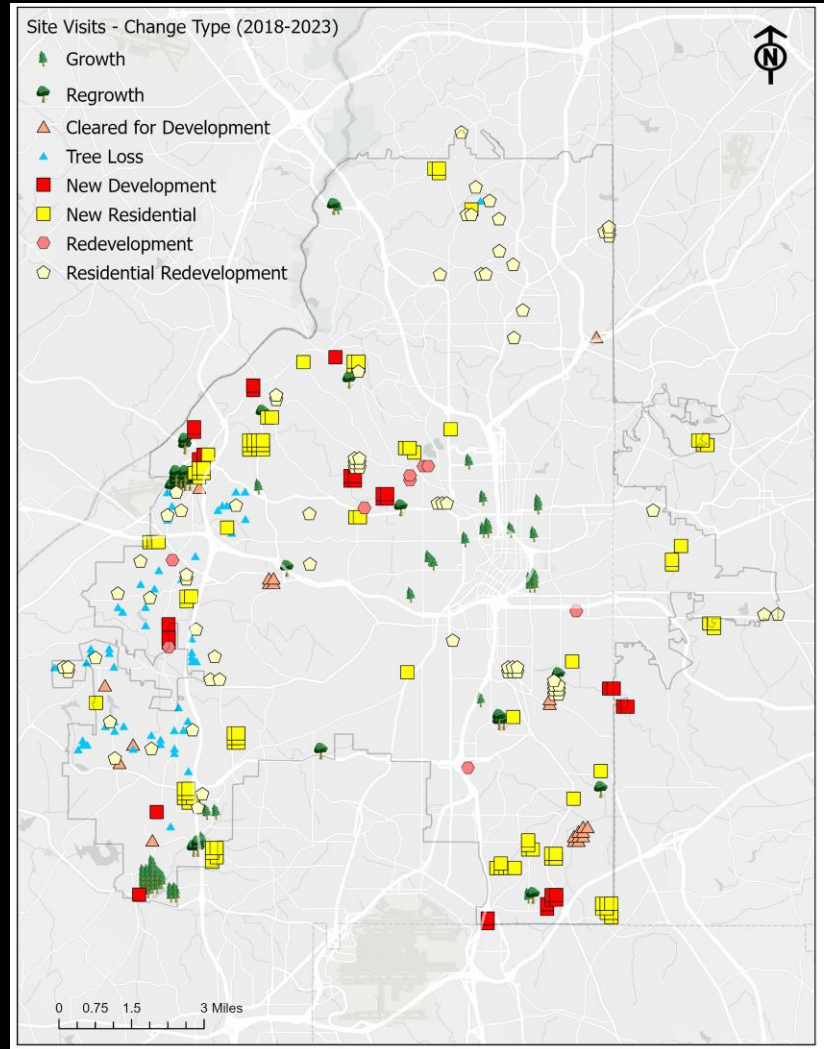
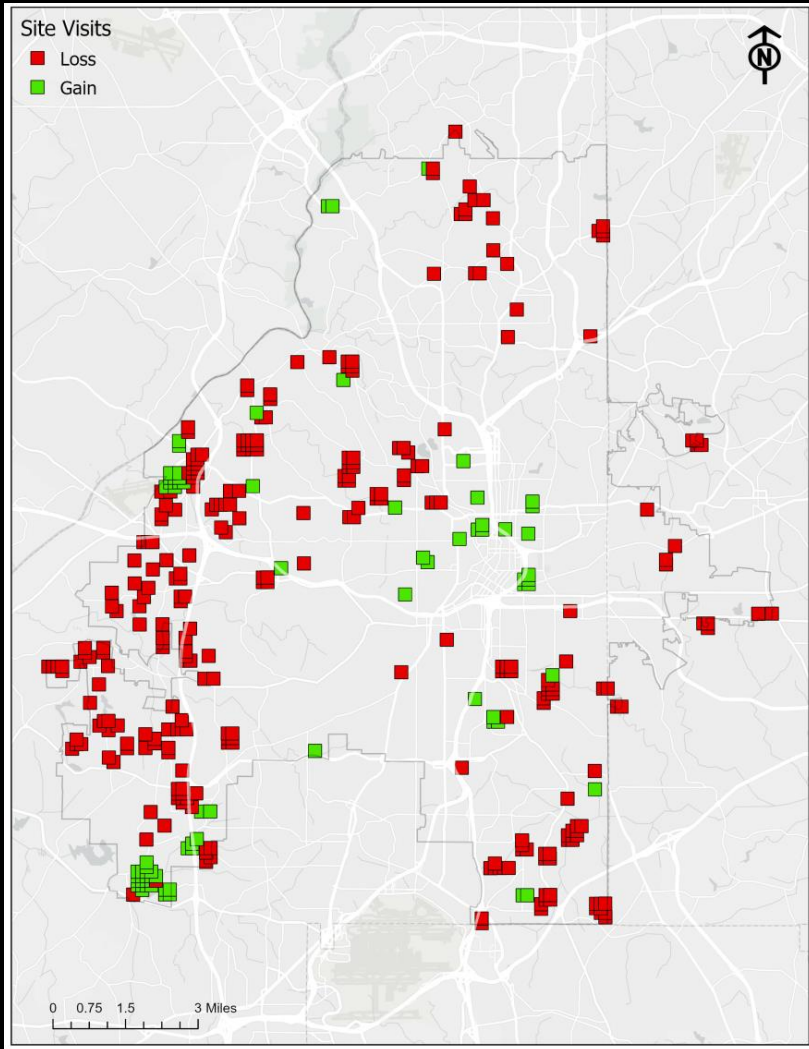
- Canopy loss correlates with development activity
 - Greatest loss concentrated in N and SW
 - Greatest loss due to residential development, primarily SF redevelopment
- Greatest canopy gains in central and west Atlanta (likely street trees and regrowth on cleared land)
- Significant canopy gain from growth of newly planted trees circa 2008
- Significant change in tree *quality* (younger, smaller, less biodiversity)



Qualifying Change through Site Visits

SITE VISITS

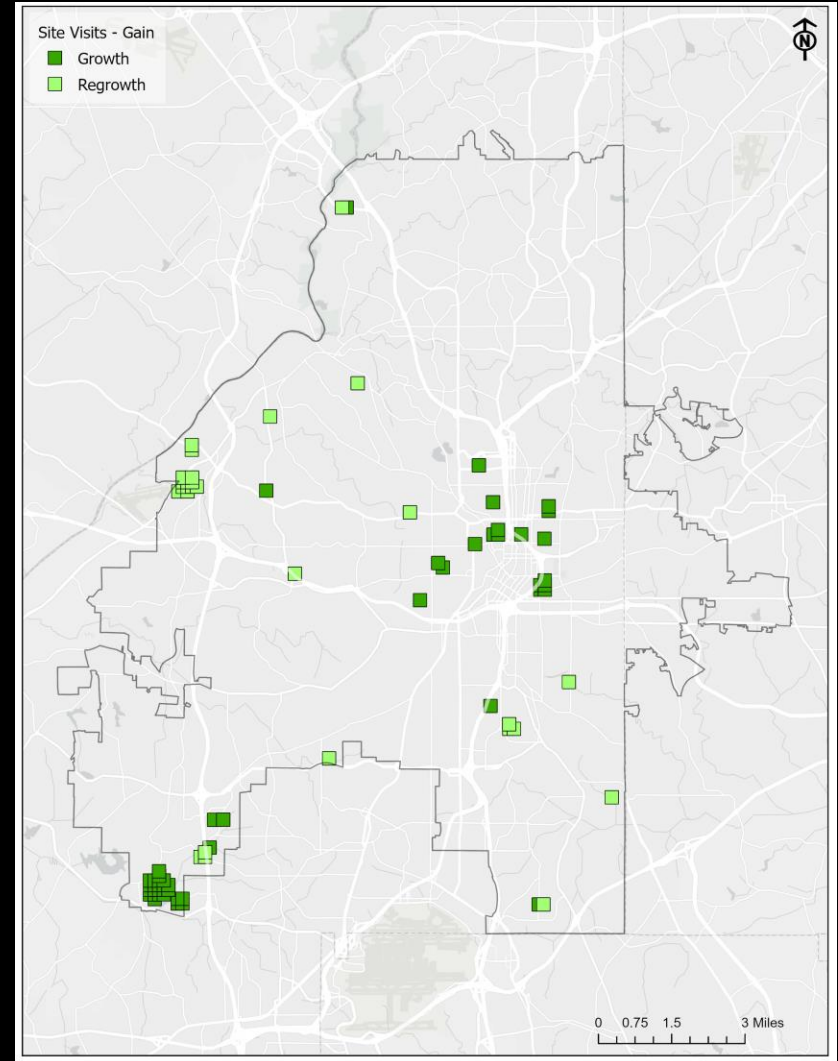
Site visits (95 acres gain/507 acres loss)



SITE VISITS – CANOPY GAIN

Sites with Canopy Gain (78)

- Growth (natural growth)
50 sites/40 acres
- Regrowth (pipe farms, former AHA sites, stalled developments)
28 sites/55 acres

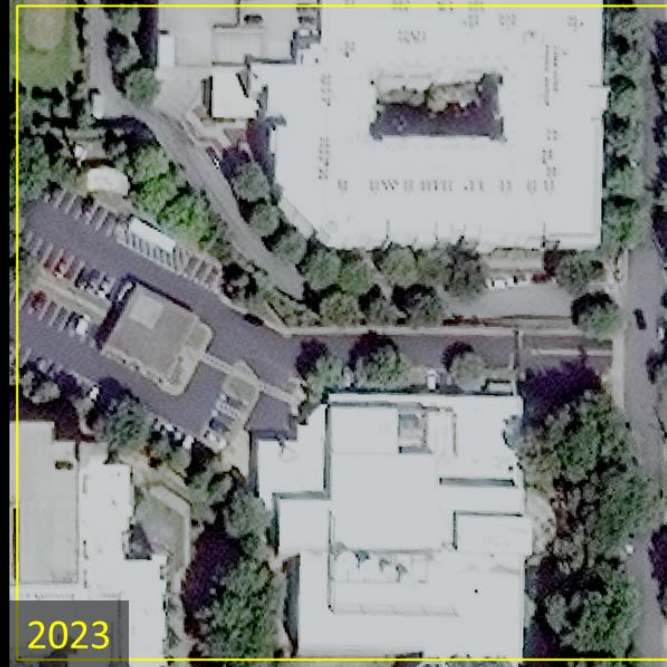
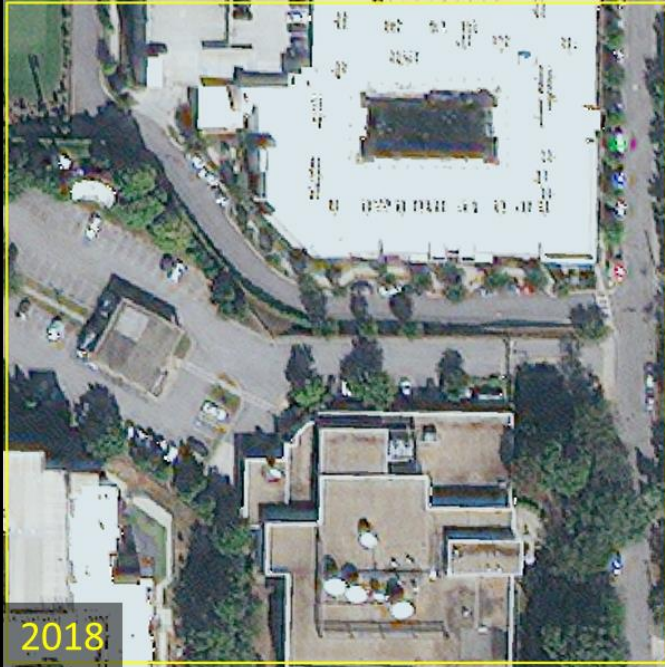


UTC **GAIN**:2018-2023 -----NEW DEVELOPMENT TREE PLANTINGS



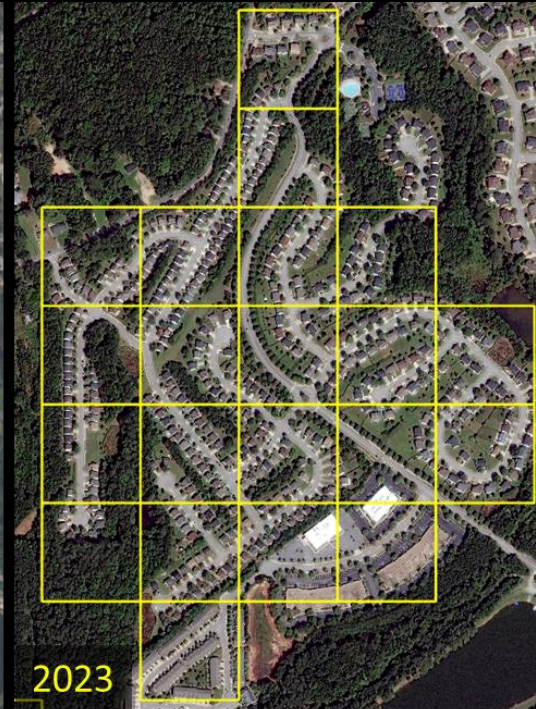
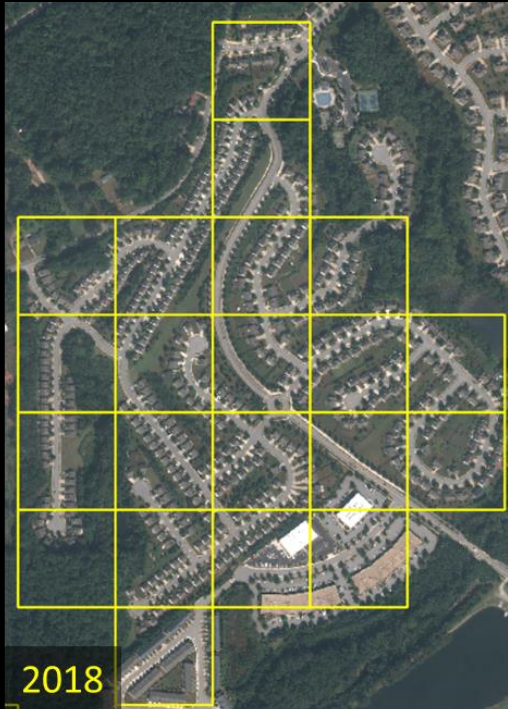
Veranda at Auburn Pointe

UTC GAIN:2018-2023 -----STREET TREES



CREATING THE NEXT
Steelworks

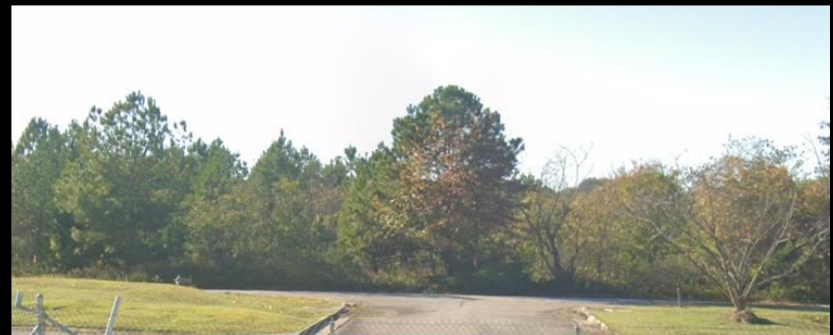
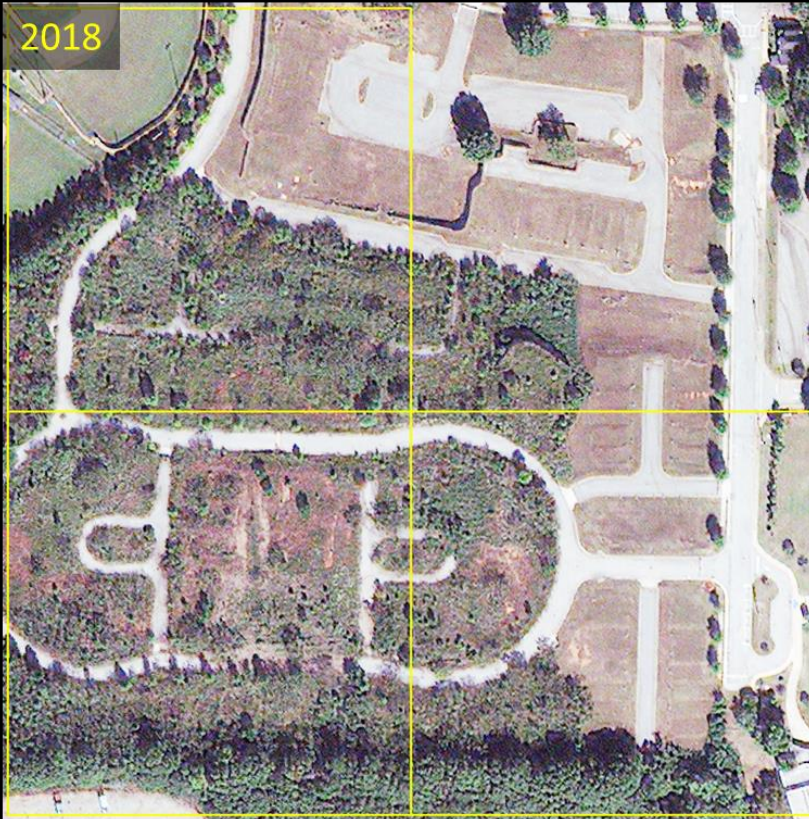
UTC **GAIN**:2018-2023 -----GROWTH IN NEIGHBORHOODS



UTC **GAIN**:2008-2023 -----REGROWTH CLEARED LAND



UTC **GAIN**:2018-2023 -----REGROWTH CLEARED LAND



CREATING THE NEXT

James Forten

UTC **GAIN**:2018-2023 -----REGROWTH CLEARED LAND



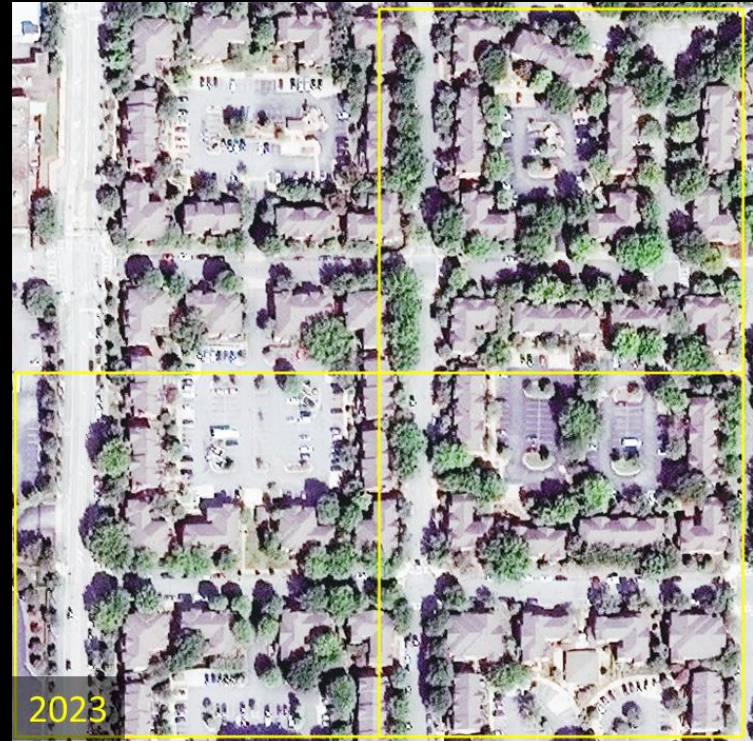
UTC **GAIN**:2018-2023 -----REGROWTH CLEARED LAND: STREET TREES



UTC **GAIN**:2018-2023 -----STREET TREES

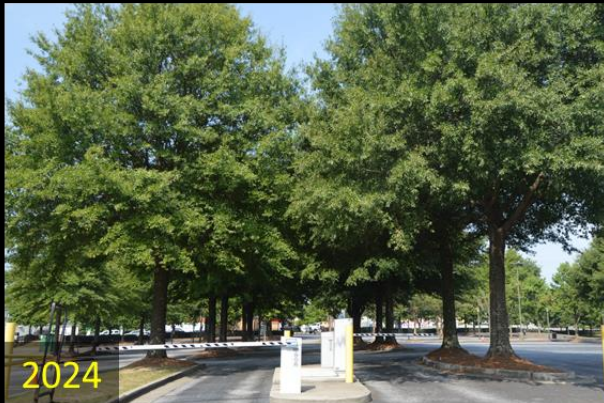


UTC **GAIN**:2018-2023 -----STREET TREES



CREATING THE NEXT
Centennial Place Apartments

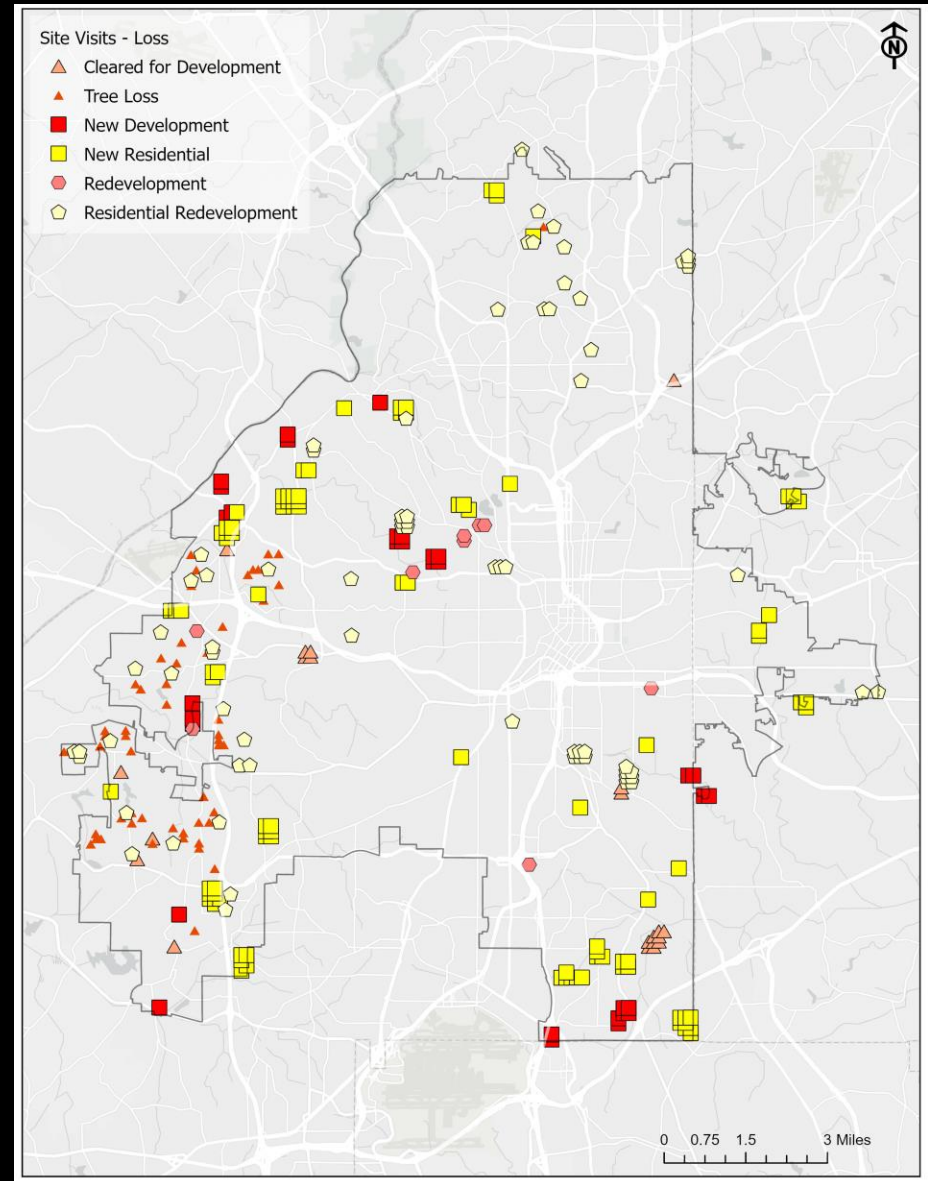
UTC **GAIN**:2018-2023 -----STREET AND PARKING LOT TREES



SITE VISITS – CANOPY LOSS (2018-2023)

Sites with Canopy Loss – 507 acres

- Multi-family – 61 sites/138 acres
- Tree loss, unspecified (removals and failures) – 55 sites/88 acres
- New single-family - 38 sites/62 acres
- Redevelopment of single-family – 33 sites/53 acres
- Redevelopment of multi-family – 33 sites/46 acres
- Cleared prior to development – 21 sites/38 acres
- New industrial – 16 sites/33 acres
- New commercial – 8 sites/14 acres
- Commercial redevelopment – 5 Sites/9 acres
- New utilities – 4 Sites/10 acres
- New park – 4 Sites/3 acres
- Redevelopment mixed-use – 3 Sites/4 acres
- Redevelopment institutional – 1 Site/2 acres
- New retention – 1 Site/3 acres
- New mixed-use – 1 Site/2 acres
- New institutional – 1 Site/2 acres

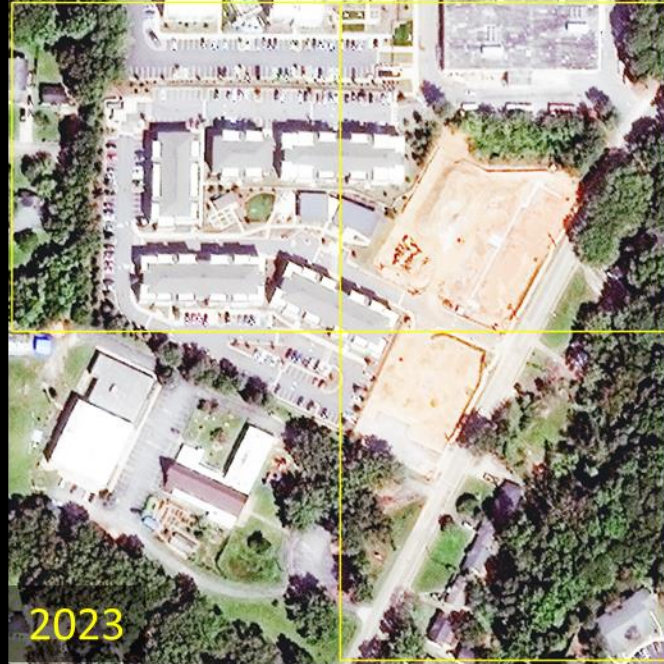


UTC **LOSS**:2018-2023 ----->SINGLE-FAMILY REDEVELOPMENT



East Lake

UTC **LOSS**:2018-2023 ----->NEW MULTI-FAMILY



The Villages of East Lake, Gardenside

CREATING THE NEXT

UTC **LOSS**:2018-2023 ----->NEW MIXED-USE



UTC **LOSS**:2018-2023 ----->MOBILE HOME PARK

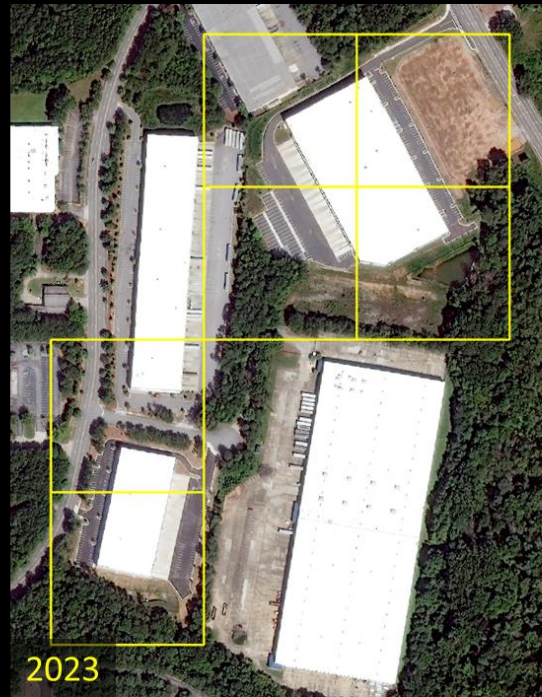
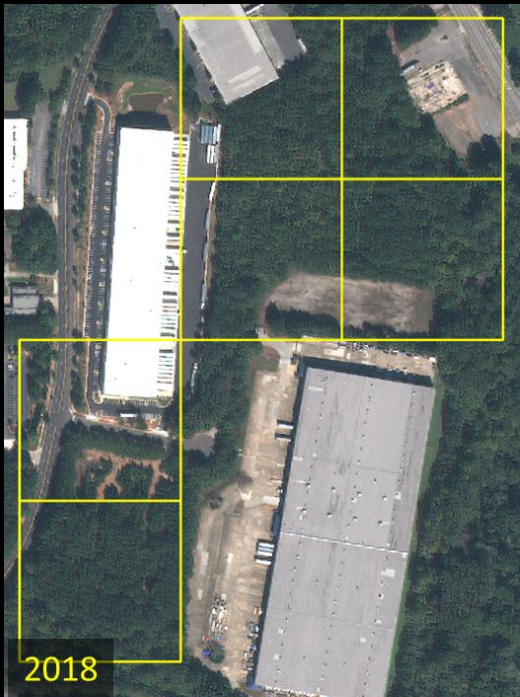


UTC **LOSS**:2018-2023 ----->"NEW" SINGLE-FAMILY



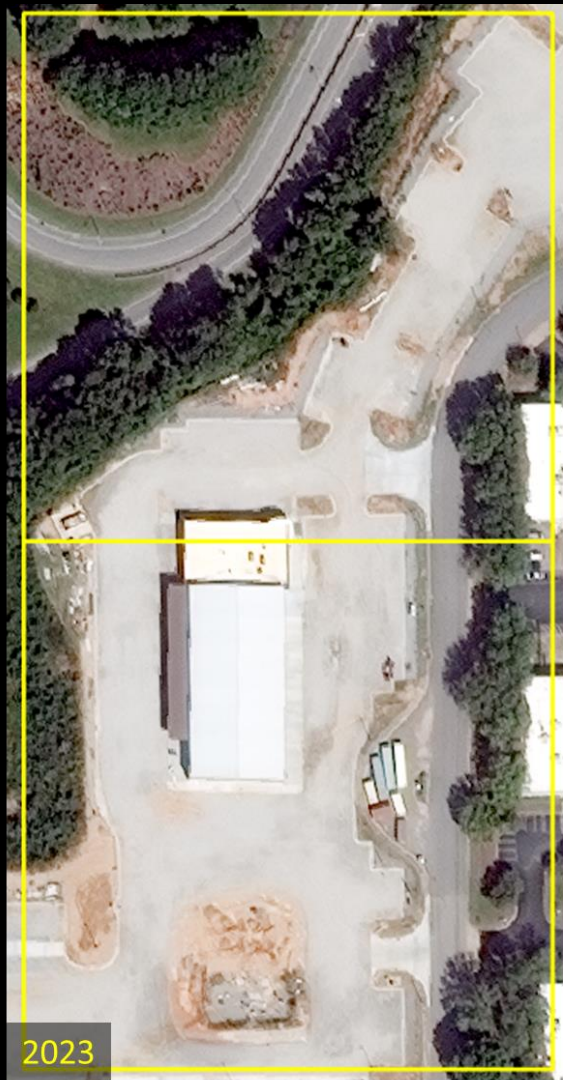
Broadlands – Jonesboro Rd

UTC **LOSS**:2018-2023 ----->NEW INDUSTRIAL



Warehouse - Jonesboro Rd

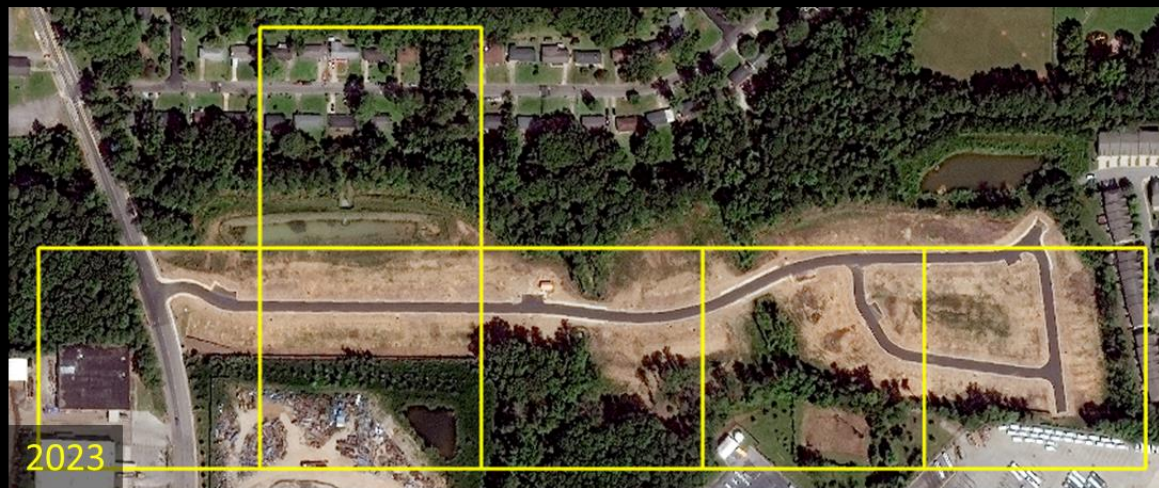
UTC **LOSS**:2018-2023 ----->NEW COMMERCIAL



Tradeport Blvd

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UTC **LOSS**:2018-2023 ----->NEW SINGLE-FAMILY



DRB - Empire Blvd

UTC **LOSS**:2018-2023 ----->NEW INSTITUTIONAL



Teamsters - Lakewood

CREATING THE NEXT

UTC **LOSS**:2018-2023 -----> NEW SINGLE-FAMILY, ATTACHED



CREATING THE NEXT

Tucker Ave - Whitehall

UTC **LOSS**:2018-2023 ----->NEW SINGLE-FAMILY



Kennett 776 - Metropolitan

CREATING THE NEXT

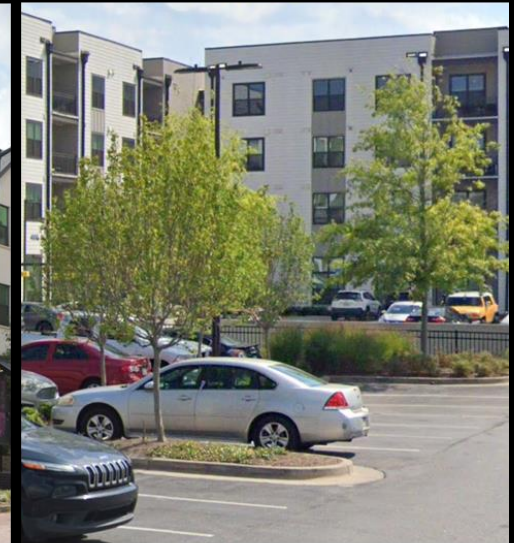
UTC **LOSS**:2018-2023 ----->"NEW" MULTI-FAMILY



CREATING THE NEXT

Haven – Hardwick St

UTC **LOSS**:2018-2023 ----->NEW MULTI-FAMILY



Boyton - Milton - Hank Aaron

CREATING THE NEXT

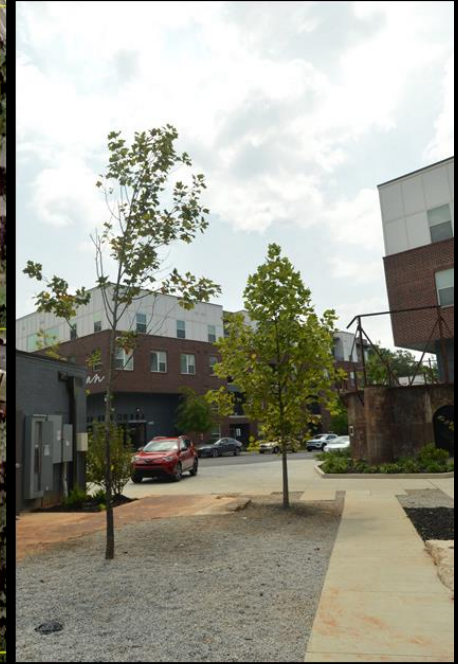
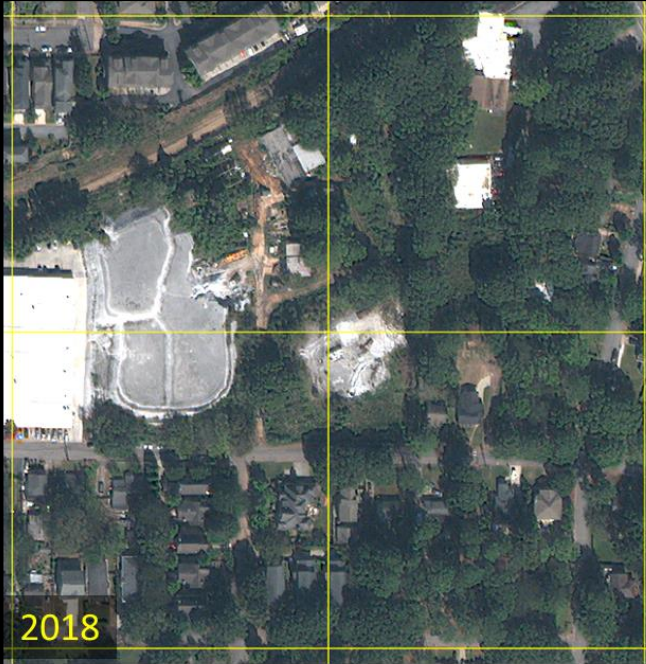
UTC **LOSS**:2018-2023 ----->TOWNHOMES REDEVELOPMENT



Boulevard

CREATING THE NEXT

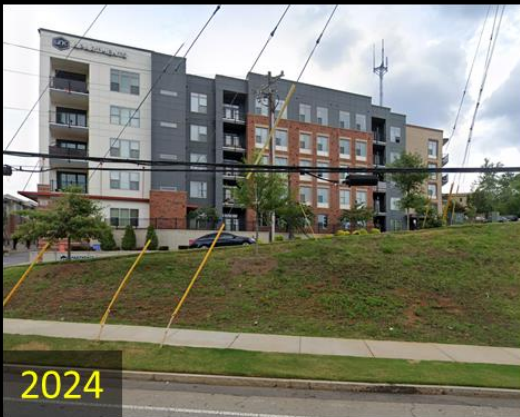
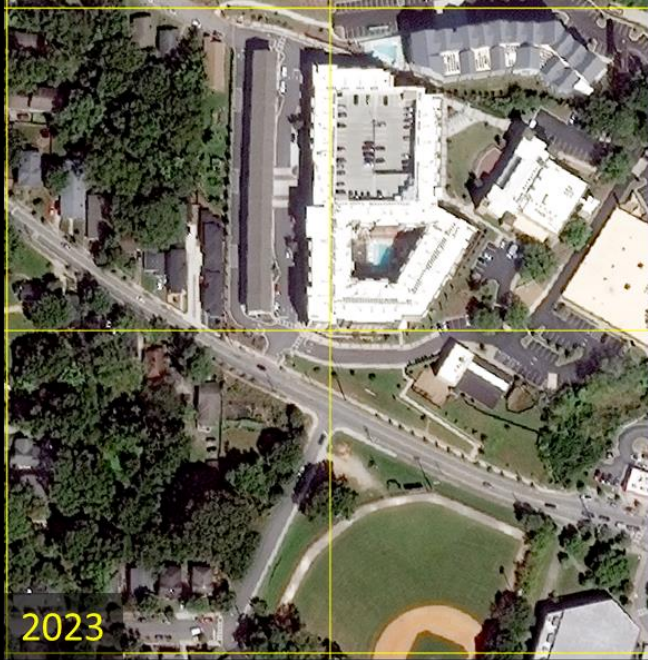
UTC **LOSS**:2018-2023 -----> MULTI-FAMILY REDEVELOPMENT



Boulevard - Skylark

CREATING THE NEXT

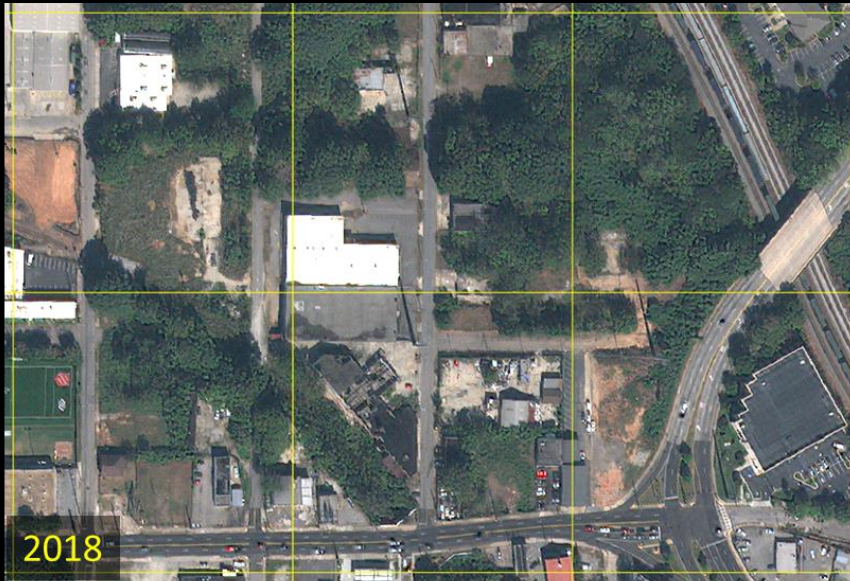
UTC **LOSS**:2018-2023 -----> MULTI-FAMILY REDEVELOPMENT



Glenwood

CREATING THE NEXT

UTC **LOSS**:2018-2023 -----> MULTI-FAMILY REDEVELOPMENT

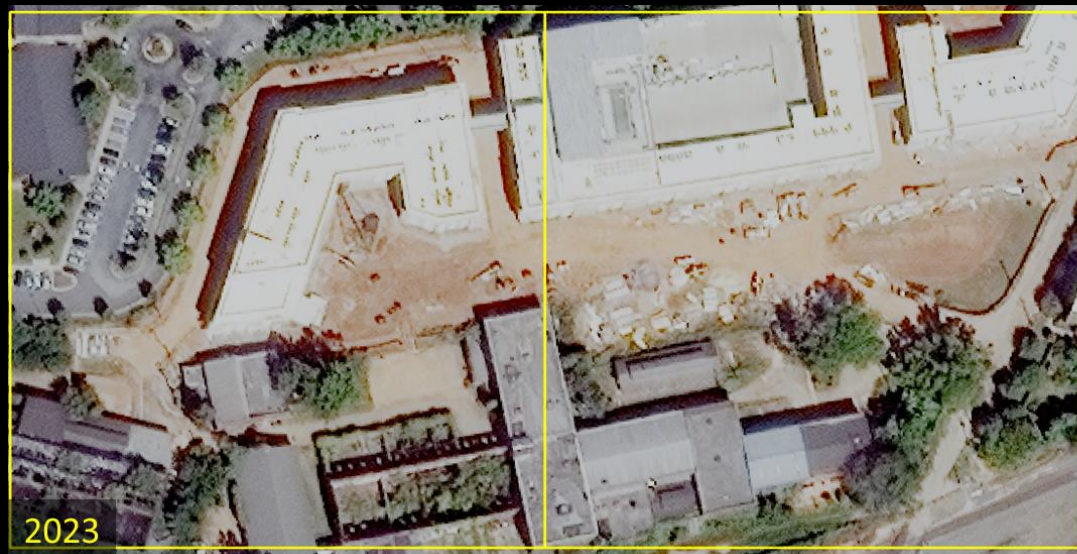


UTC **LOSS**:2018-2023 ----->NEW INDUSTRIAL

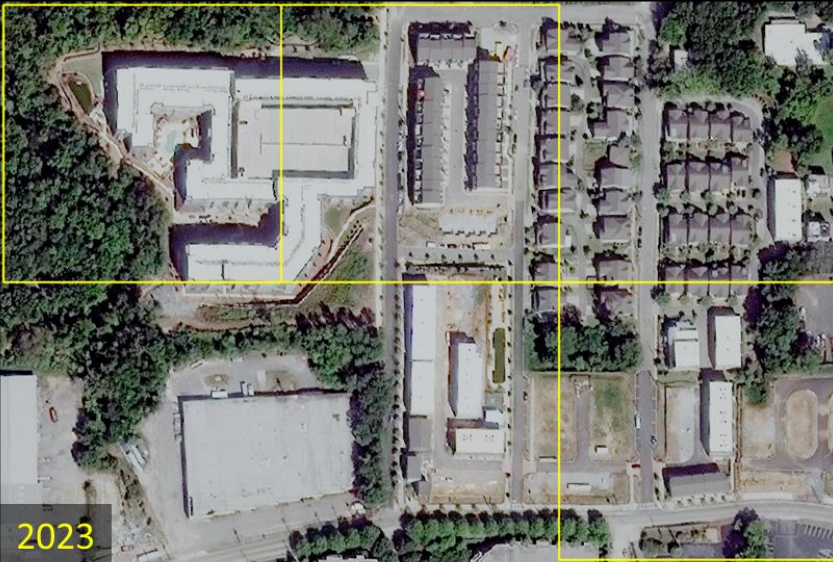
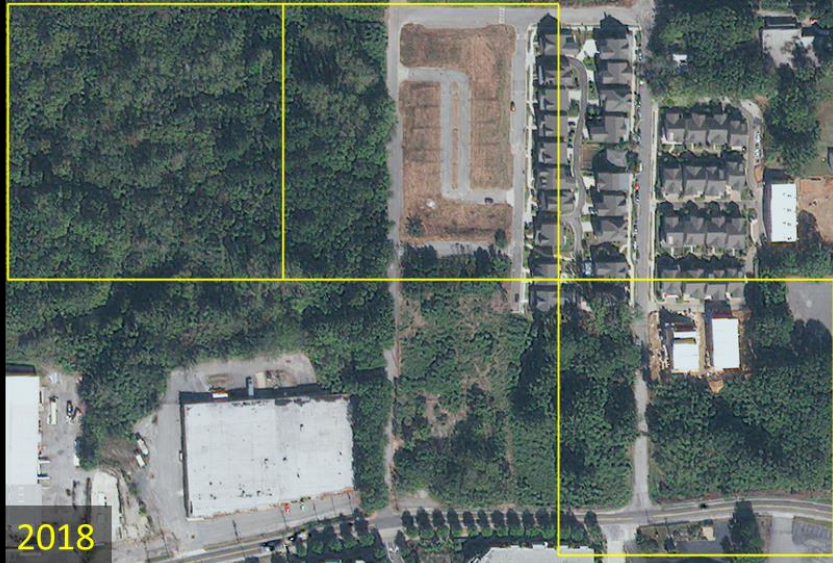


West Marietta – Data Center

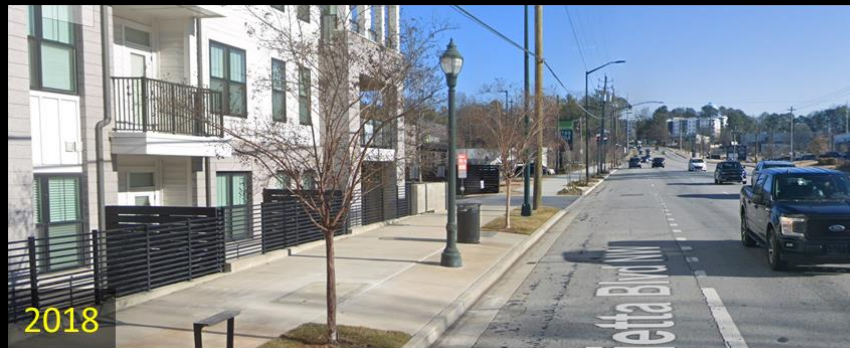
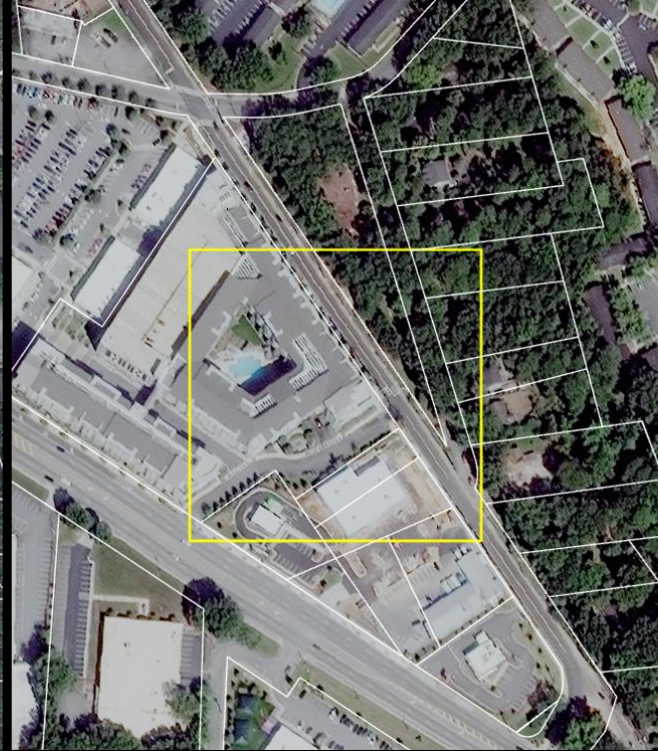
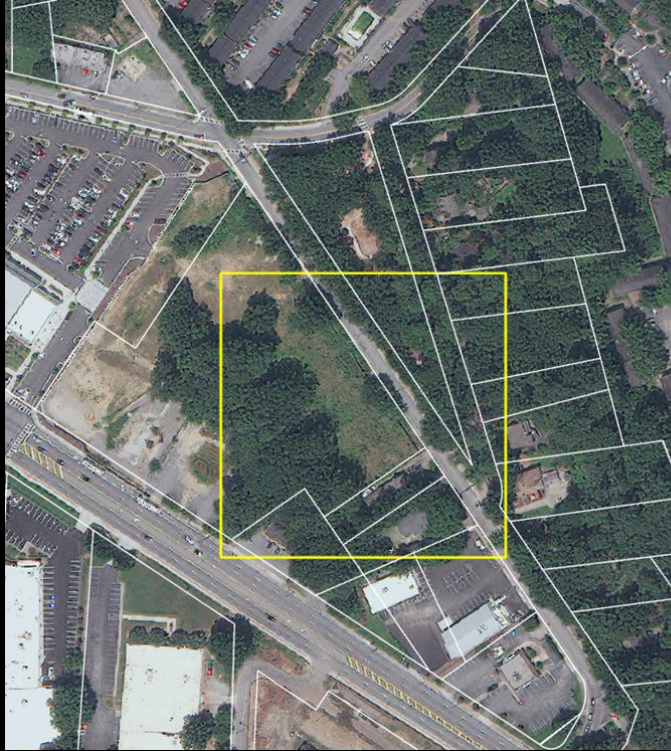
UTC **LOSS**:2018-2023 -----> MULTI-FAMILY REDEVELOPMENT



UTC **LOSS**:2018-2023 ----->NEW MULTI-FAMILY



UTC **LOSS**:2018-2023 ----->NEW MULTI-FAMILY



2018



2023



2024

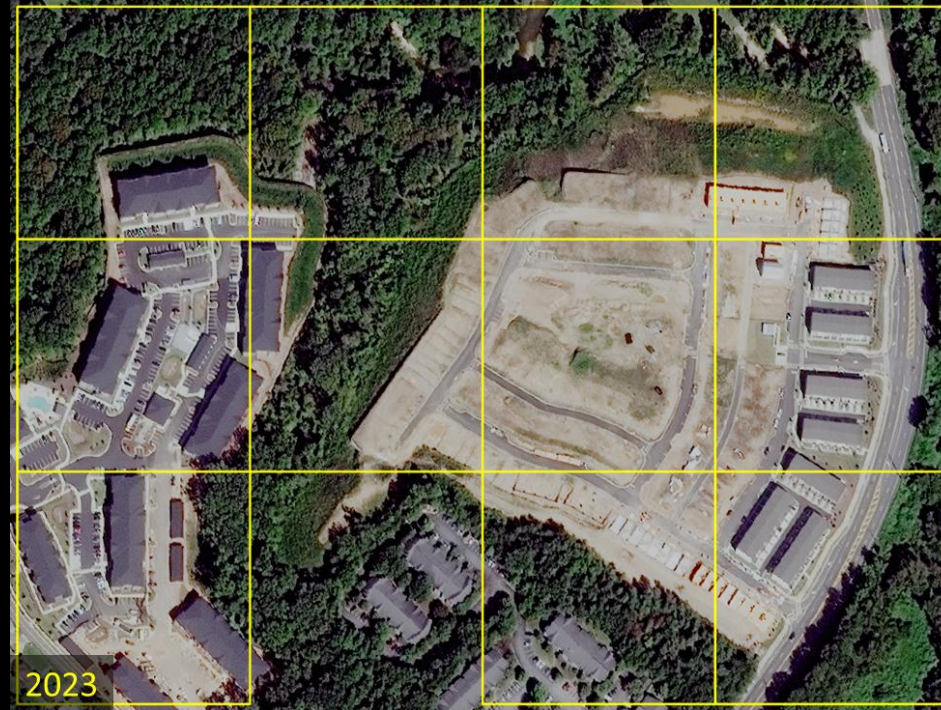
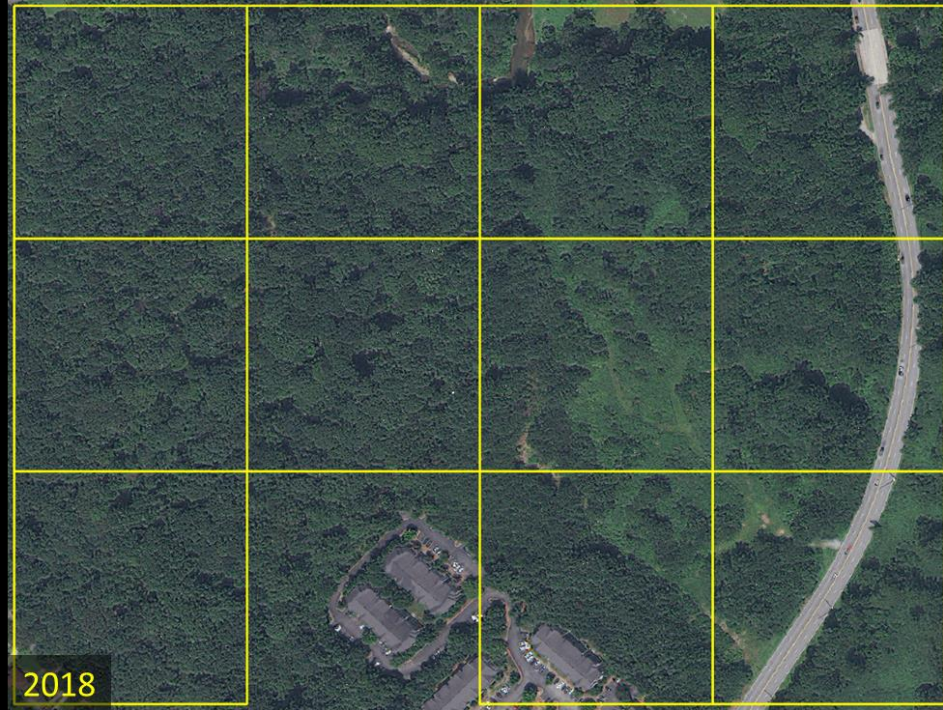
UTC **LOSS**:2018-2023 ----->NEW SINGLE-FAMILY, ATTACHED



UTC **LOSS**:2018-2023 ----->NEW MULTI-FAMILY



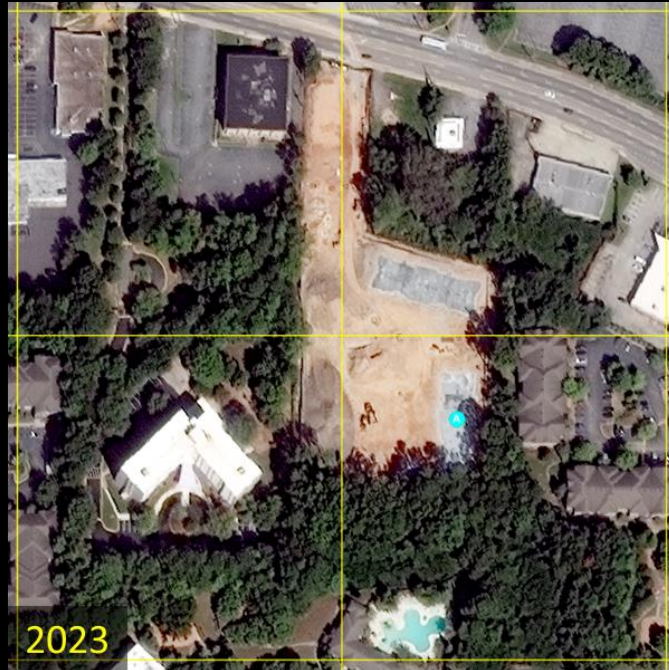
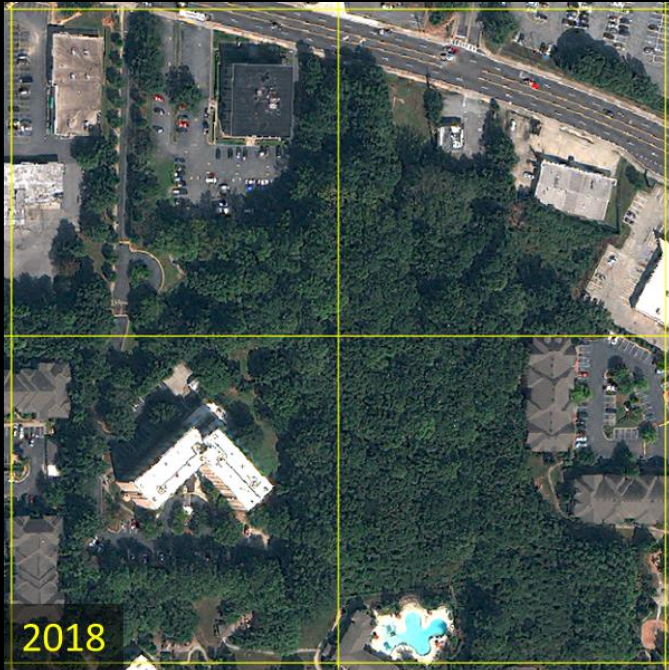
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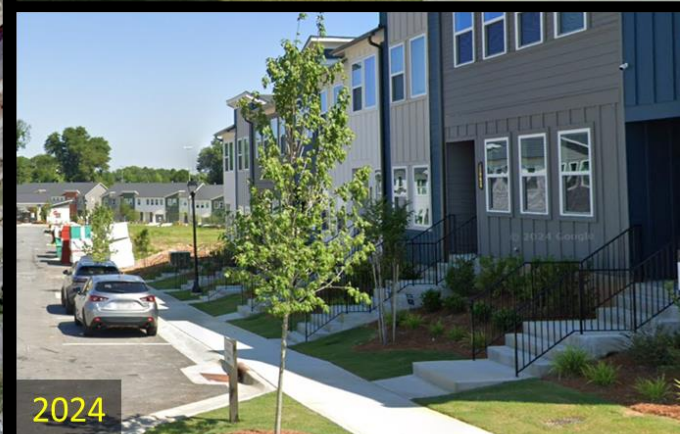
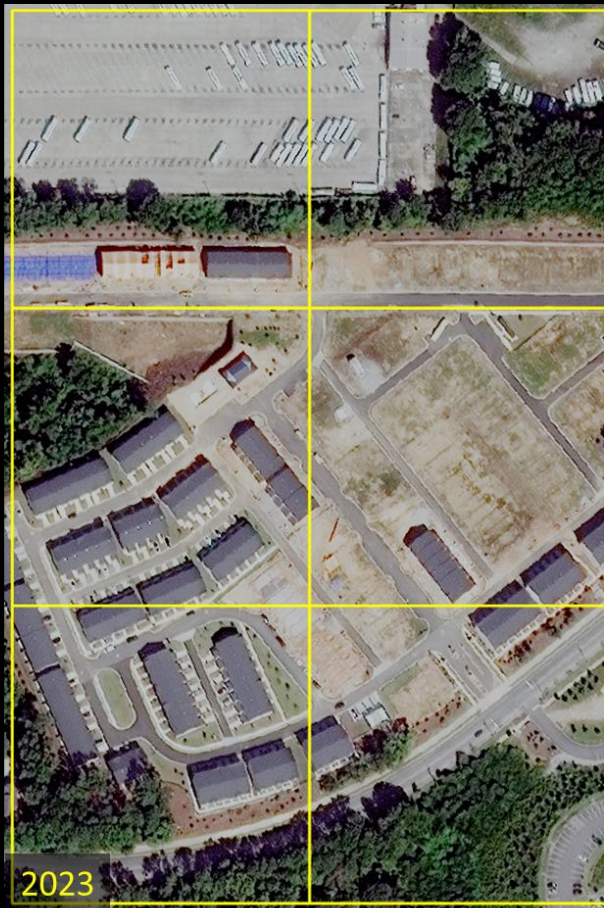
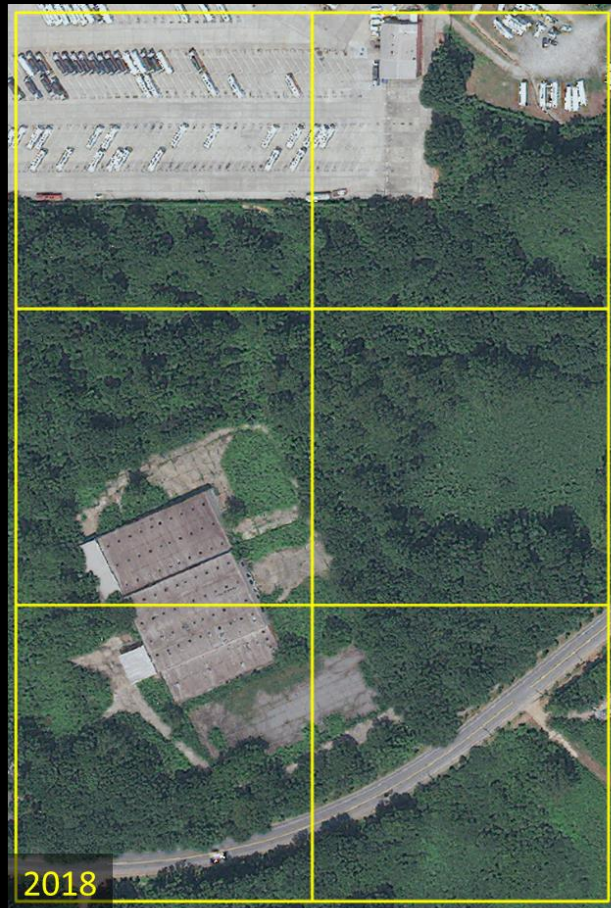
James Jackson and Northwest

CREATING THE NEXT

UTC **LOSS**:2018-2023 ----->NEW MULTI-FAMILY



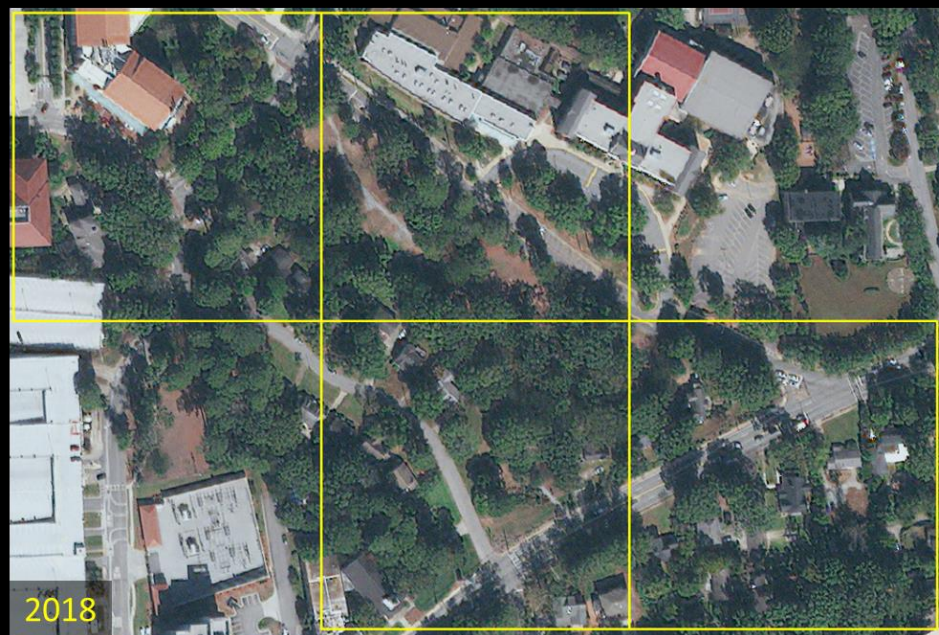
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Johnson Rd – Perry Blvd

CREATING THE NEXT

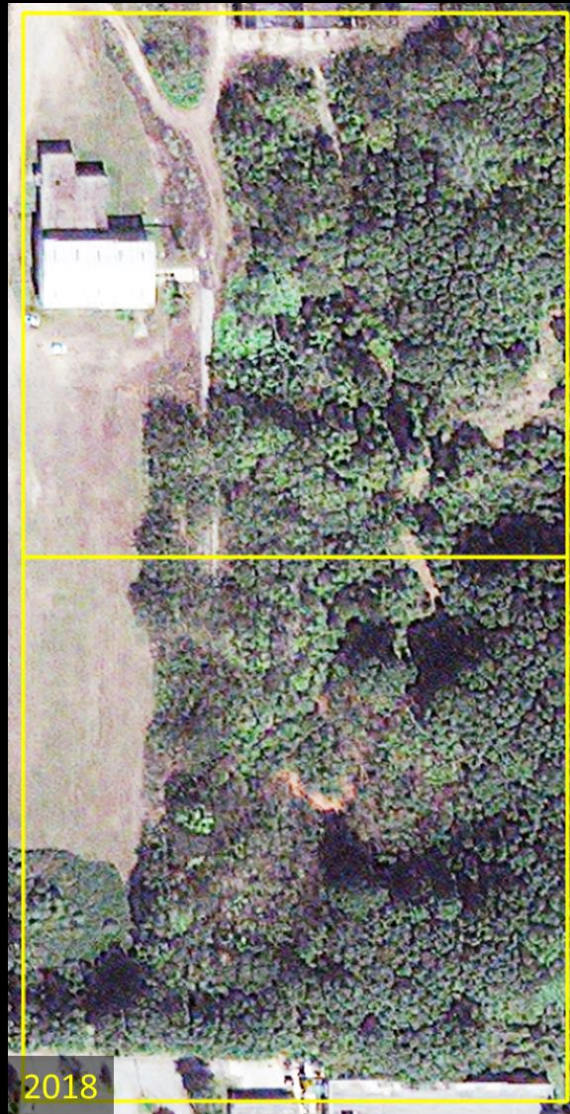
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Emory

CREATING THE NEXT

UTC **LOSS**:2018-2023 ----->NEW MULTI-FAMILY



Rogers - Pullman

CREATING THE NEXT

UTC **LOSS**:2018-2023 ----->NEW MULTI-FAMILY



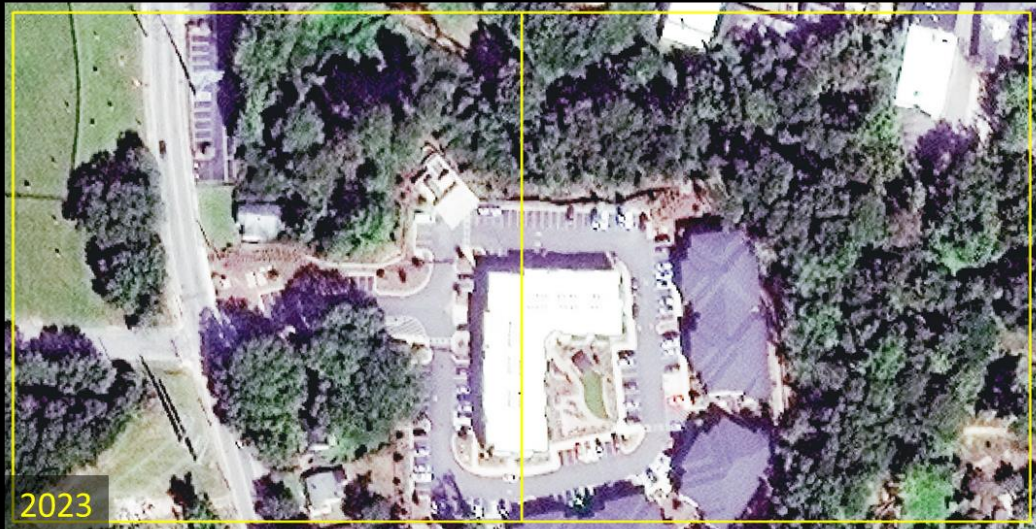
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UTC **LOSS**:2018-2023 ----->NEW INSTITUTIONAL



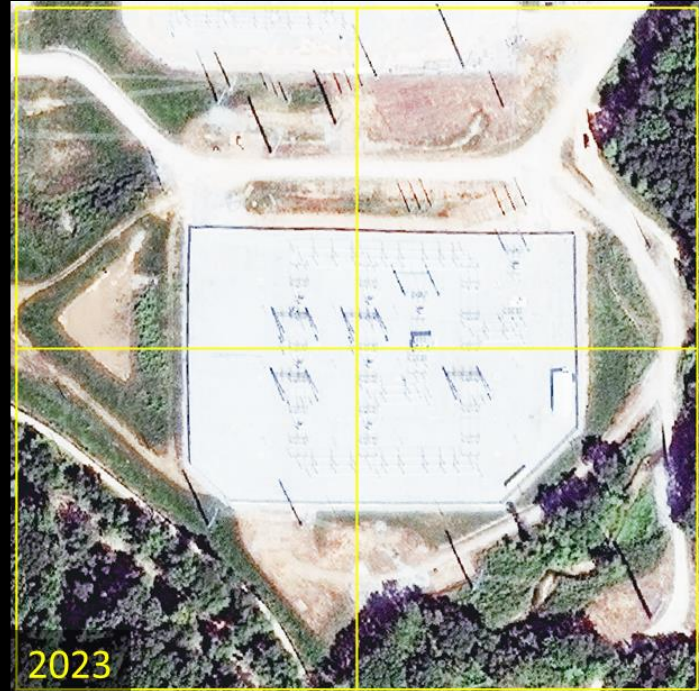
UTC **LOSS**:2018-2023 ----->NEW MULTI-FAMILY



UTC **LOSS**:2018-2023 ----->NEW PARK



UTC **LOSS**:2018-2023 ----->NEW UTILITY



CREATING THE NEXT
Marietta - Bellwood

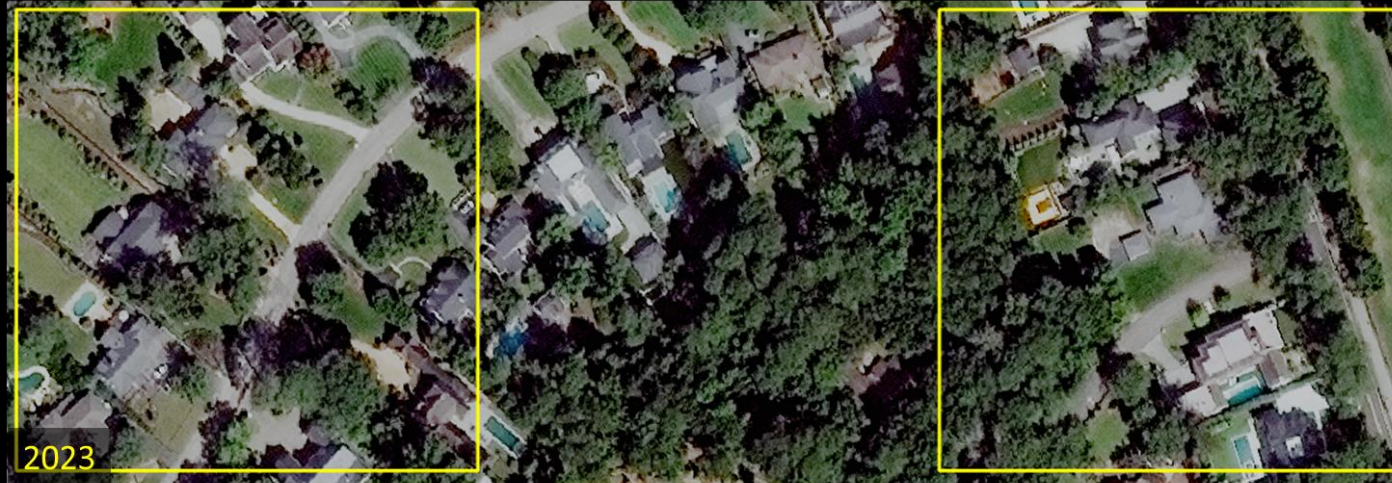
UTC **LOSS**:2018-2023 ----->NEW SINGLE-FAMILY



Northside and Deering

CREATING THE NEXT

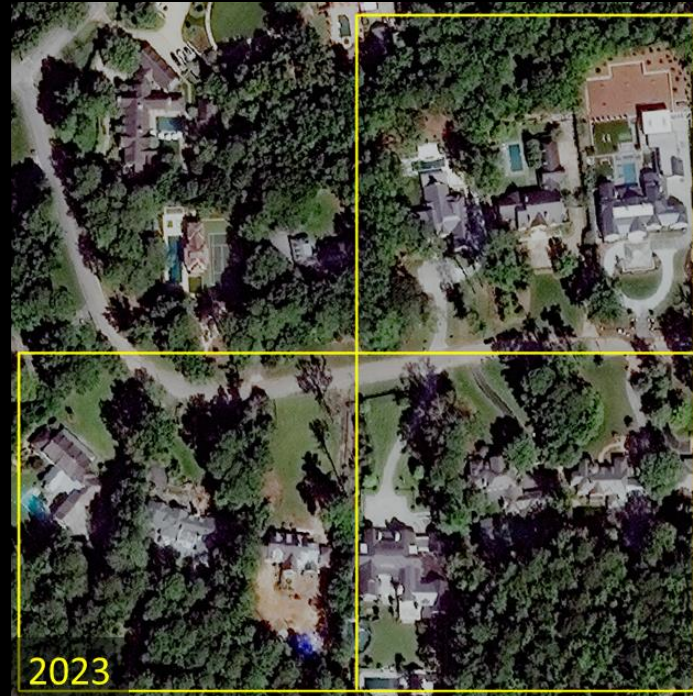
UTC **LOSS**:2018-2023 ----->SINGLE-FAMILY REDEVELOPMENT



Powers Ferry - Pineland

CREATING THE NEXT

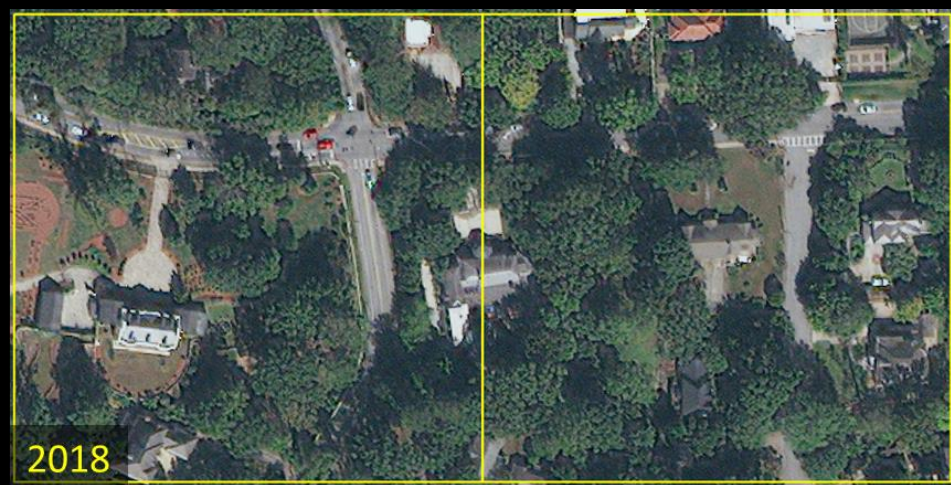
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Pineland

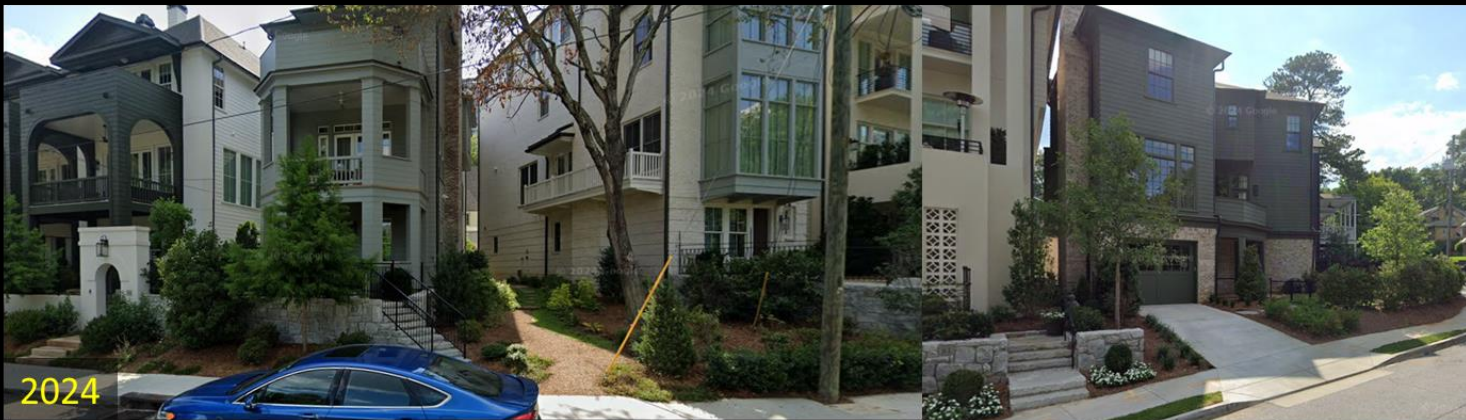
CREATING THE NEXT

UTC **LOSS**:2018-2023 ----->SINGLE-FAMILY REDEVELOPMENT



West Paces Ferry and Habersham

UTC **LOSS**:2018-2023 ----->SINGLE-FAMILY REDEVELOPMENT

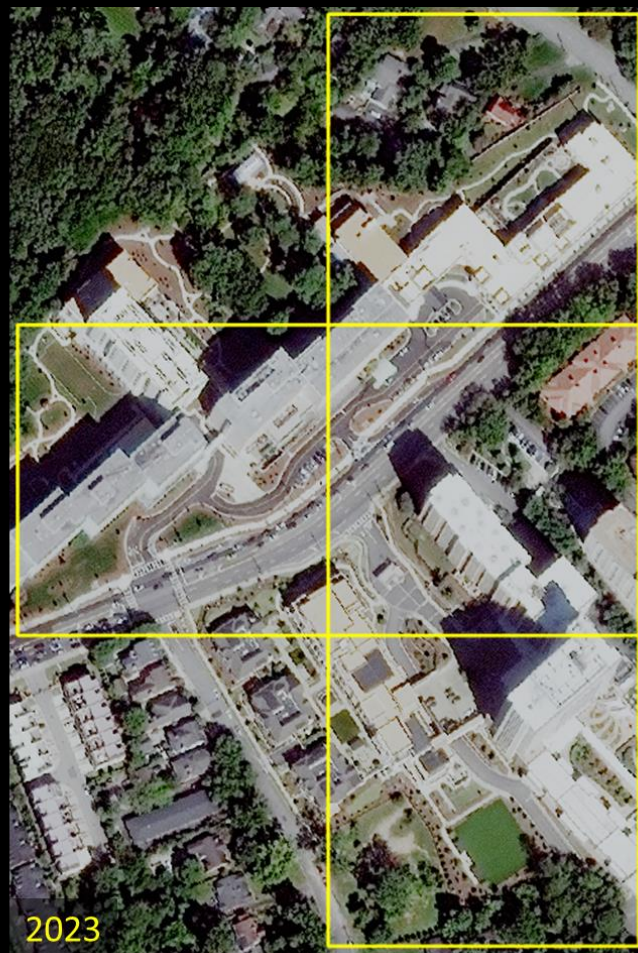
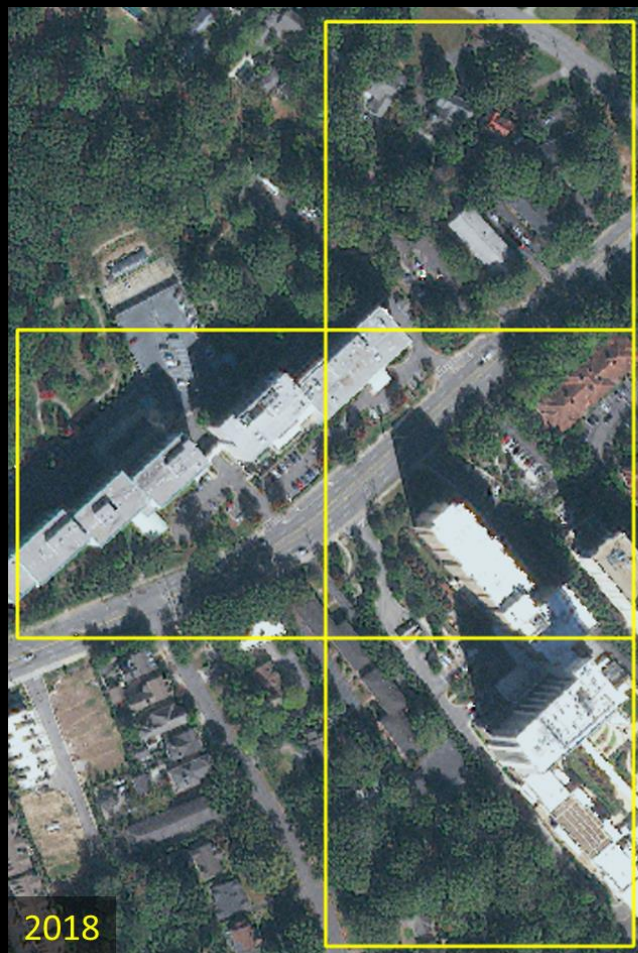


CREATING THE NEXT
Delmont and Peachtree

UTC **LOSS**:2018-2023 ----->SINGLE-FAMILY REDEVELOPMENT

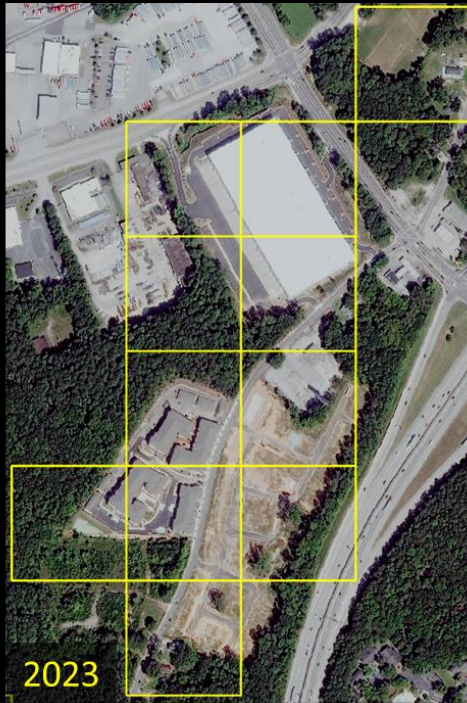
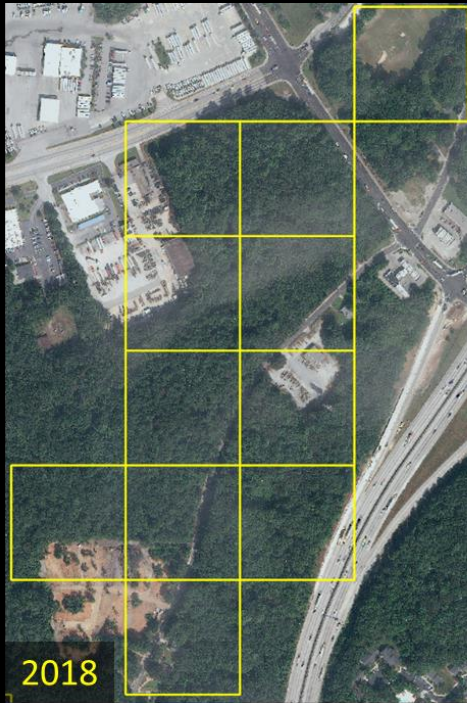


UTC **LOSS**:2018-2023 ----->MULTI-FAMILY REDEVELOPMENT



Peachtree St – Senior Living

UTC **LOSS**:2018-2023 ----->NEW INDUSTRIAL AND MULTI-FAMILY



UTC **LOSS**:2018-2023 ----->NEW MULTI-FAMILY



MLK Jr and I-20

CREATING THE NEXT

UTC **LOSS**:2018-2023 ----->NEW MULTI-FAMILY



UTC **LOSS**:2018-2023 ----->NEW COMMERCIAL

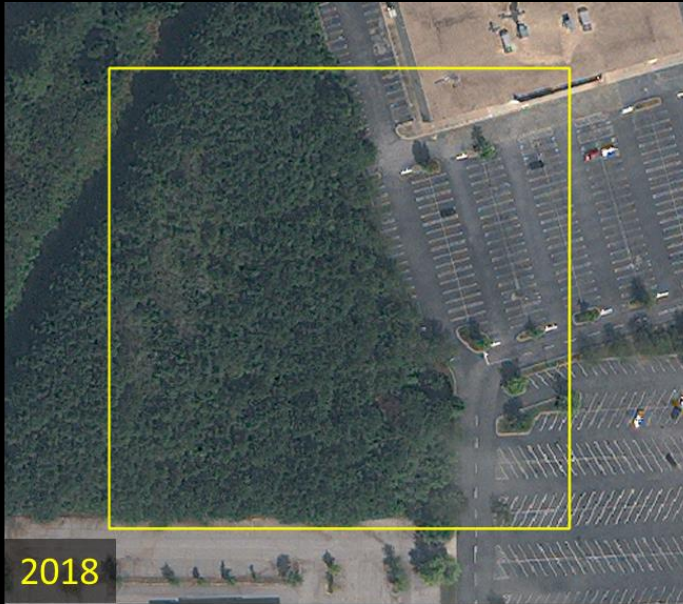


UTC **LOSS**:2018-2023 ----->NEW MULTI-FAMILY

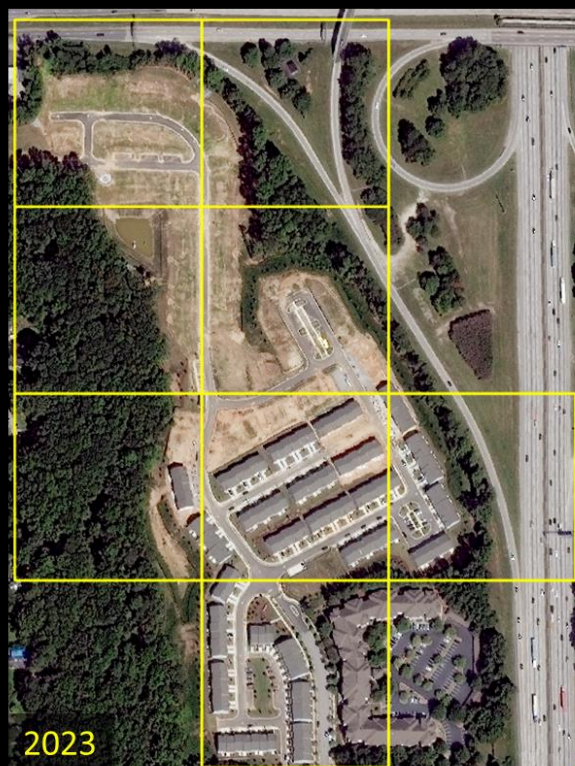
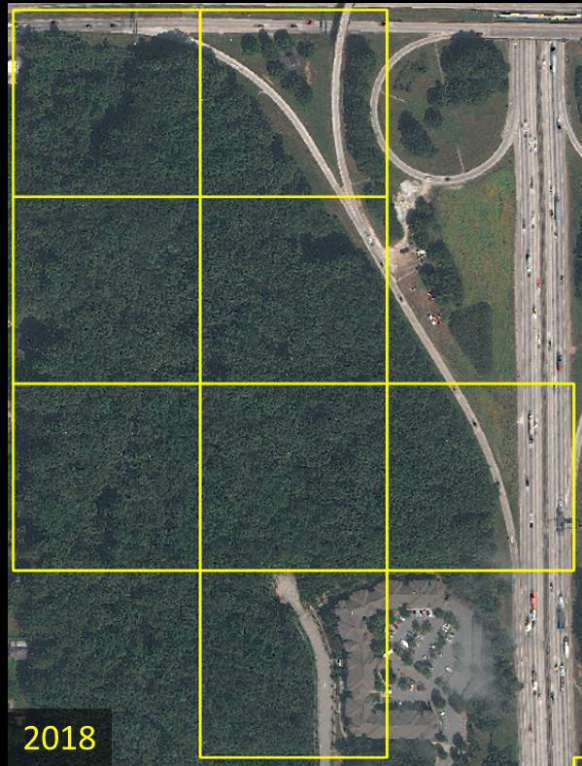


Landrum

UTC **LOSS**:2018-2023 ----->NEW MULTI-FAMILY



UTC **LOSS**:2018-2023 ----->NEW SINGLE-FAMILY



Cambellton Rd. and Coventry

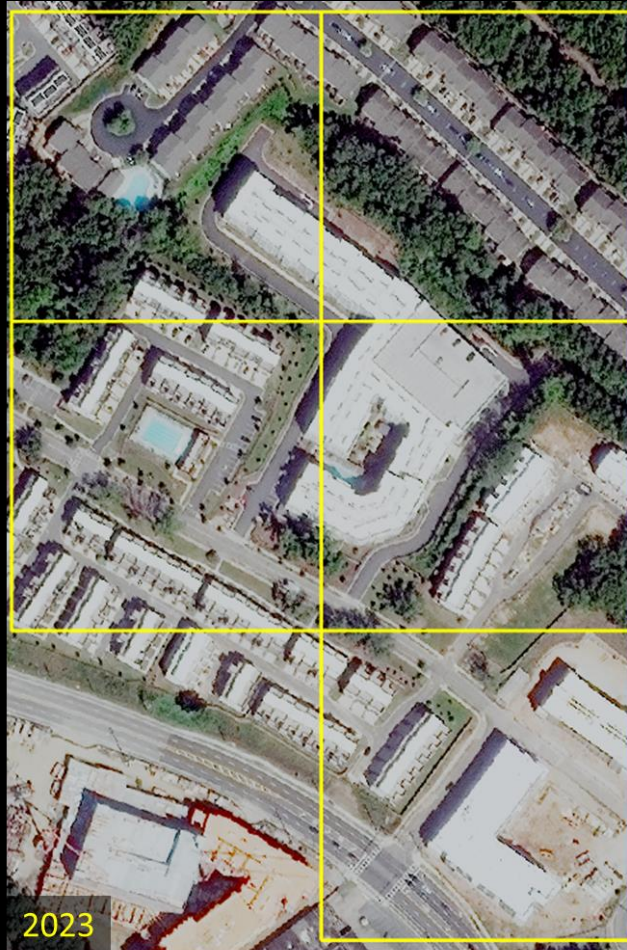
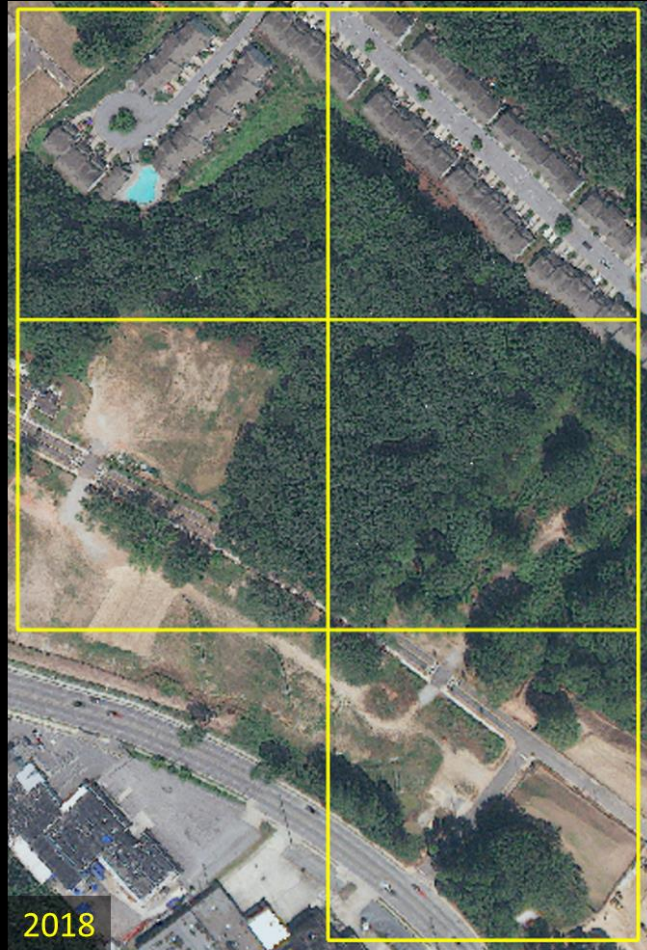
UTC **LOSS**:2018-2023 ----->NEW COMMERCIAL



Fairburn Rd

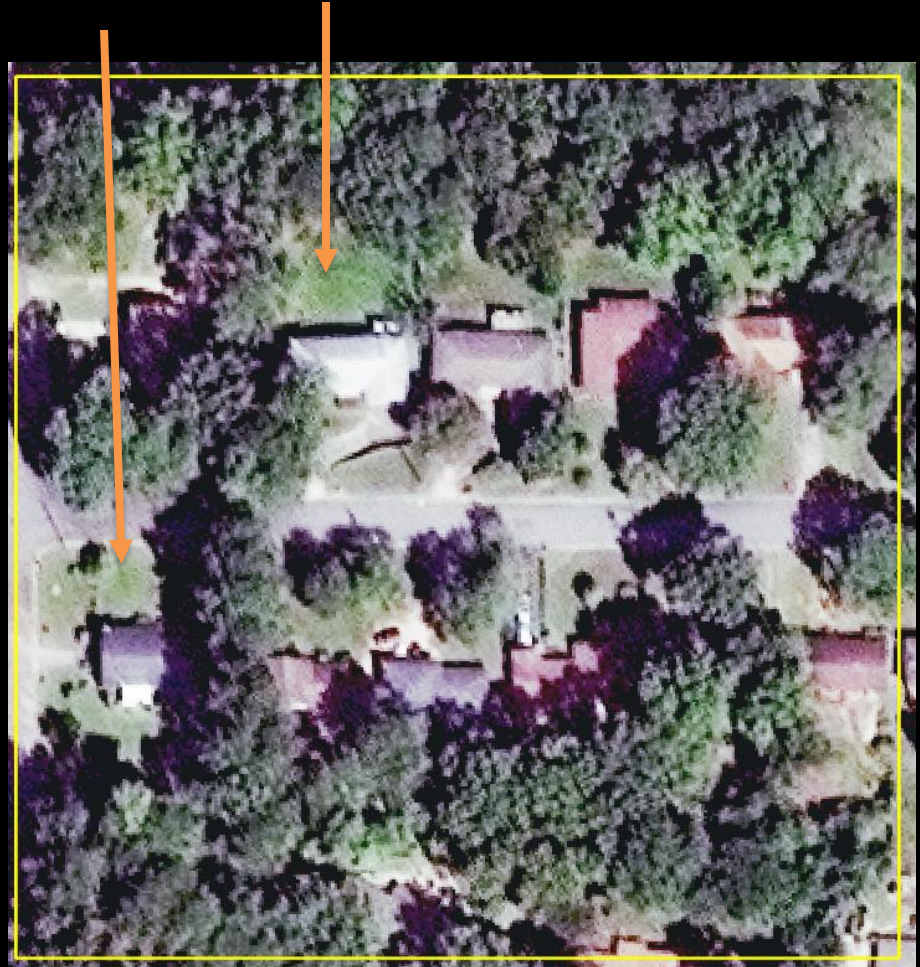
CREATING THE NEXT

UTC **LOSS**:2018-2023 ----->NEW MULTI-FAMILY



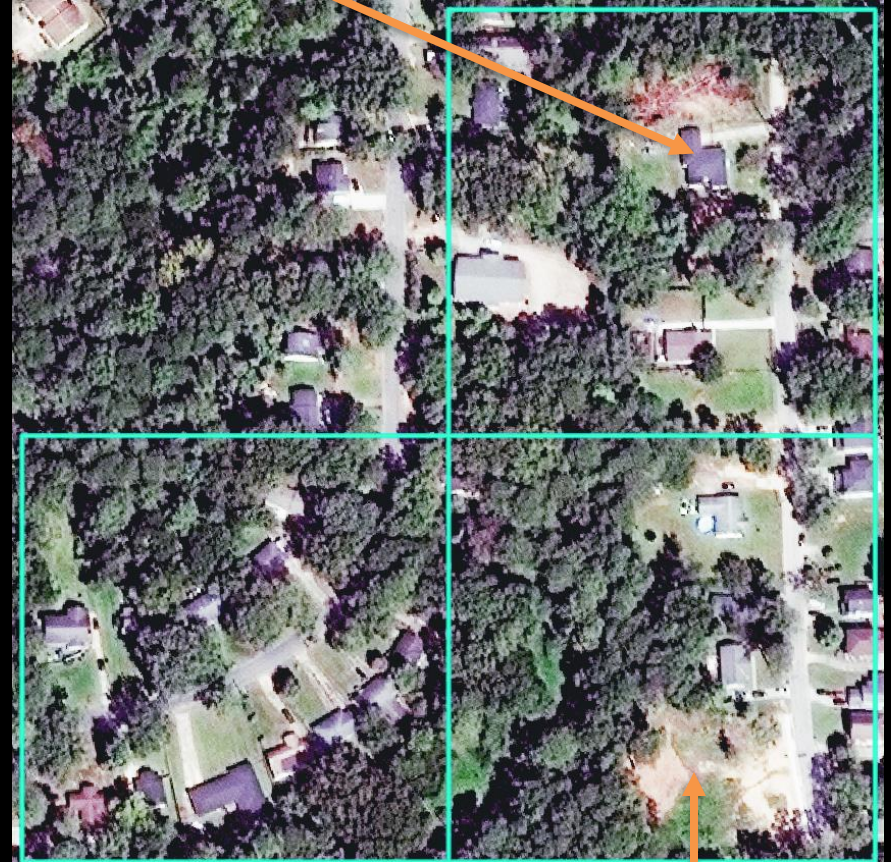
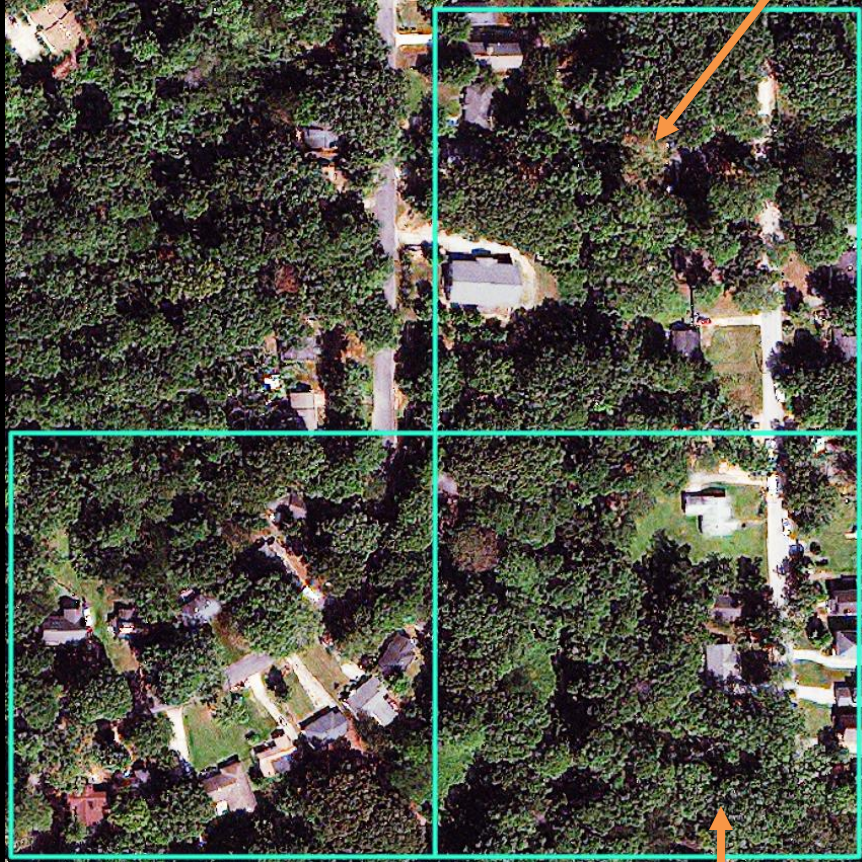
Marietta Blvd. and Bolton Dr.

UTC **LOSS**:2008-2023 ----->TREE REMOVAL



Green Valley Acres

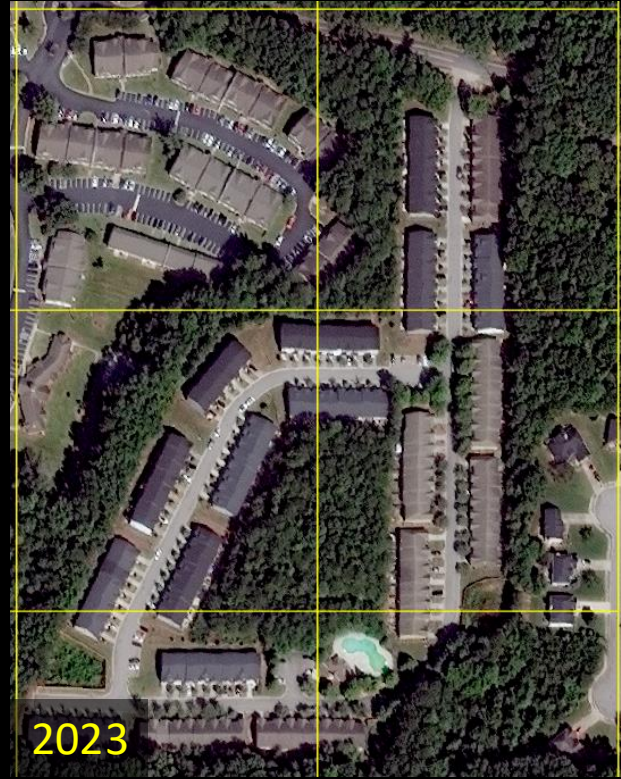
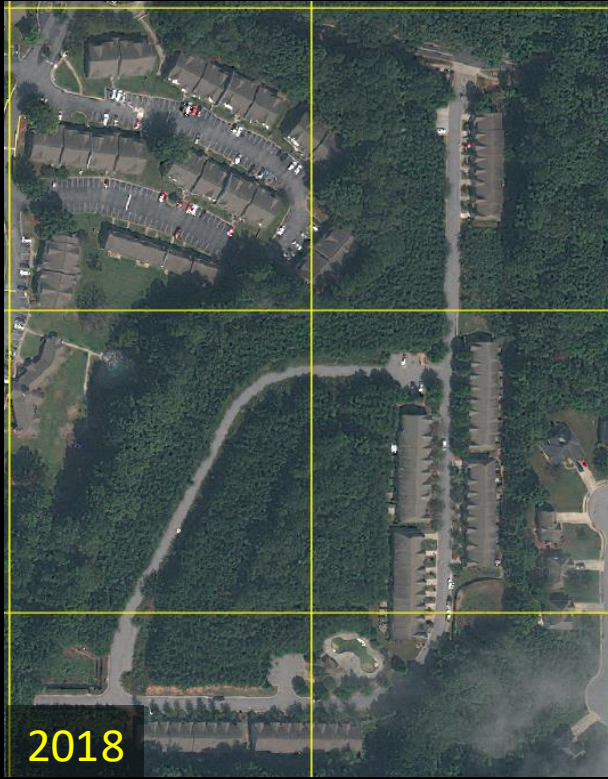
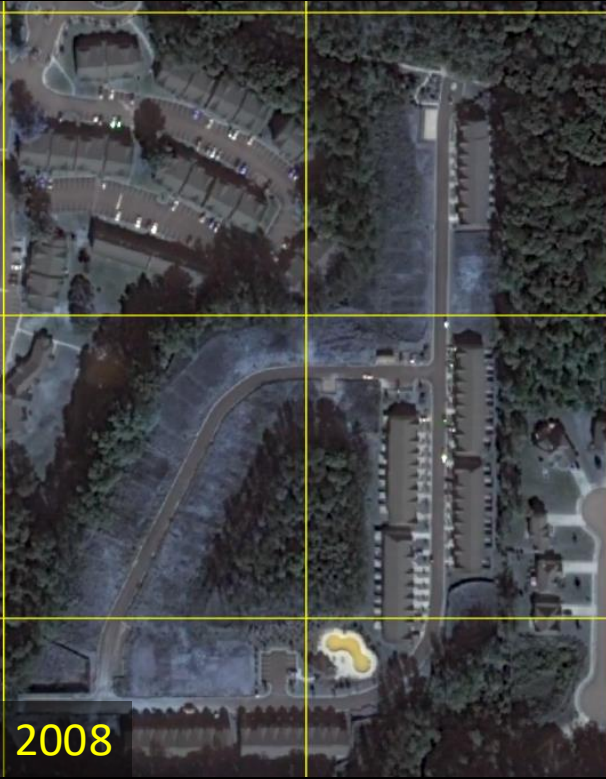
UTC **LOSS**:2008-2023 ----->TREE REMOVAL



Adamsville

CREATING THE NEXT

UTC **LOSS.GAIN.LOSS**:2008-2023 ----->NEW SINGLE-FAMILY ATTACHED



UTC **LOSS.GAIN.LOSS**:2008-2023 ----->NEW MULTI-FAMILY

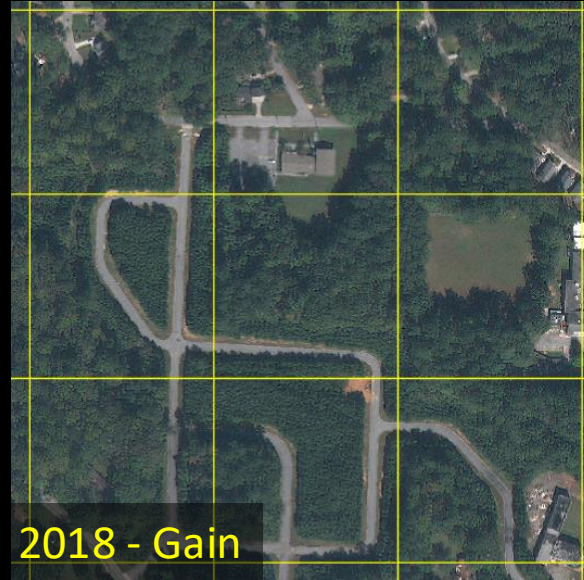


UTC **LOSS.GAIN.LOSS**:2008-2023 ----->NEW SINGLE-FAMILY



CREATING THE NEXT
Stone rd. and Stonegate

UTC **LOSS.GAIN.LOSS**:2008-2023 ----->"NEW" SINGLE-FAMILY



Browns Mill

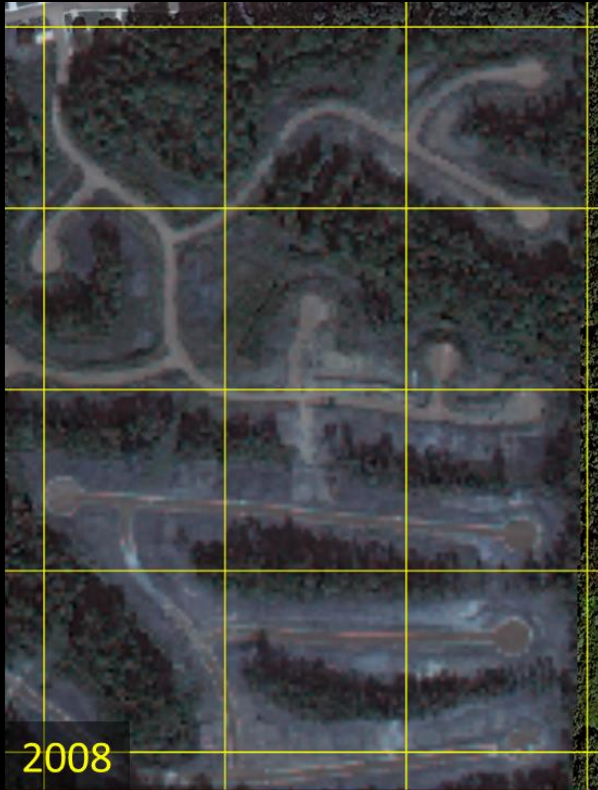
UTC **LOSS.GAIN.LOSS**:2018-2023 ----->STALLED DEVELOPMENT



Thomasville Estates

CREATING THE NEXT

UTC **LOSS.GAIN.LOSS**:2008-2023 ----->"NEW" SINGLE-FAMILY



SUMMARY OF CANOPY CHANGE TYPES (2018-2023)

Loss:

- New development (multi-family)
- Redevelopment (single-family)
- Expansion of existing structures
- Maintenance/tree loss

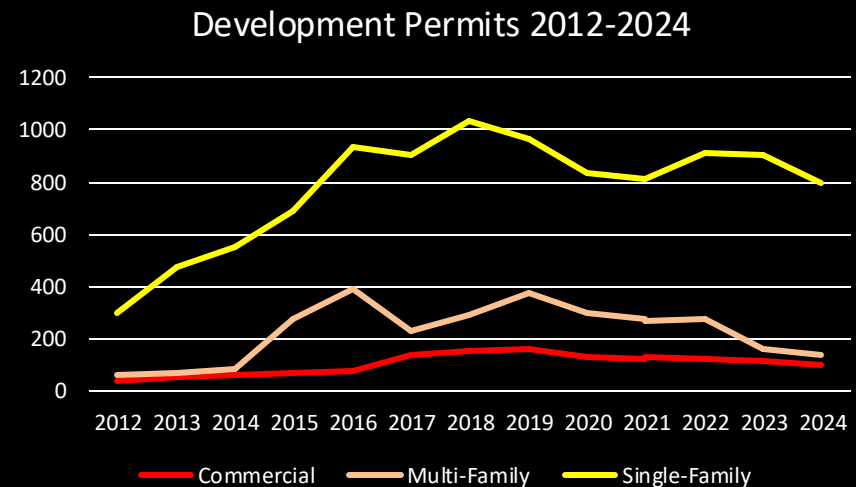
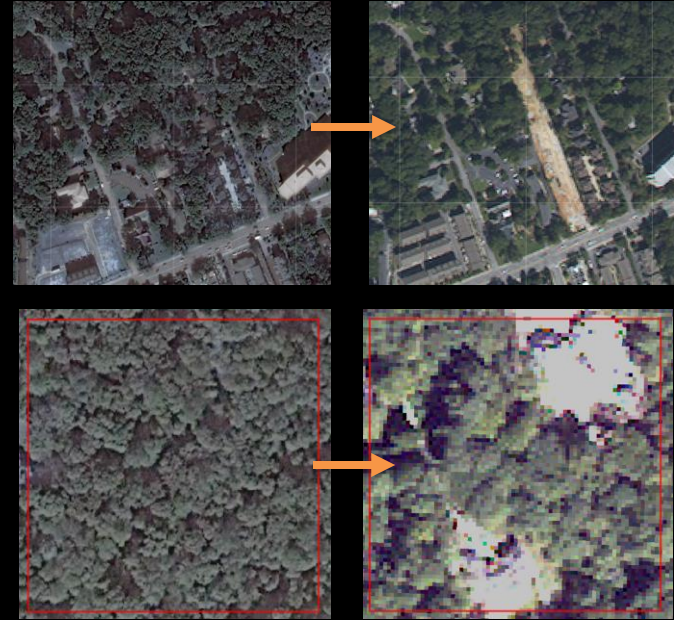
Gain:

- Growth of street trees
- Growth of saplings
- Growth of existing mature trees
- Regrowth on cleared land



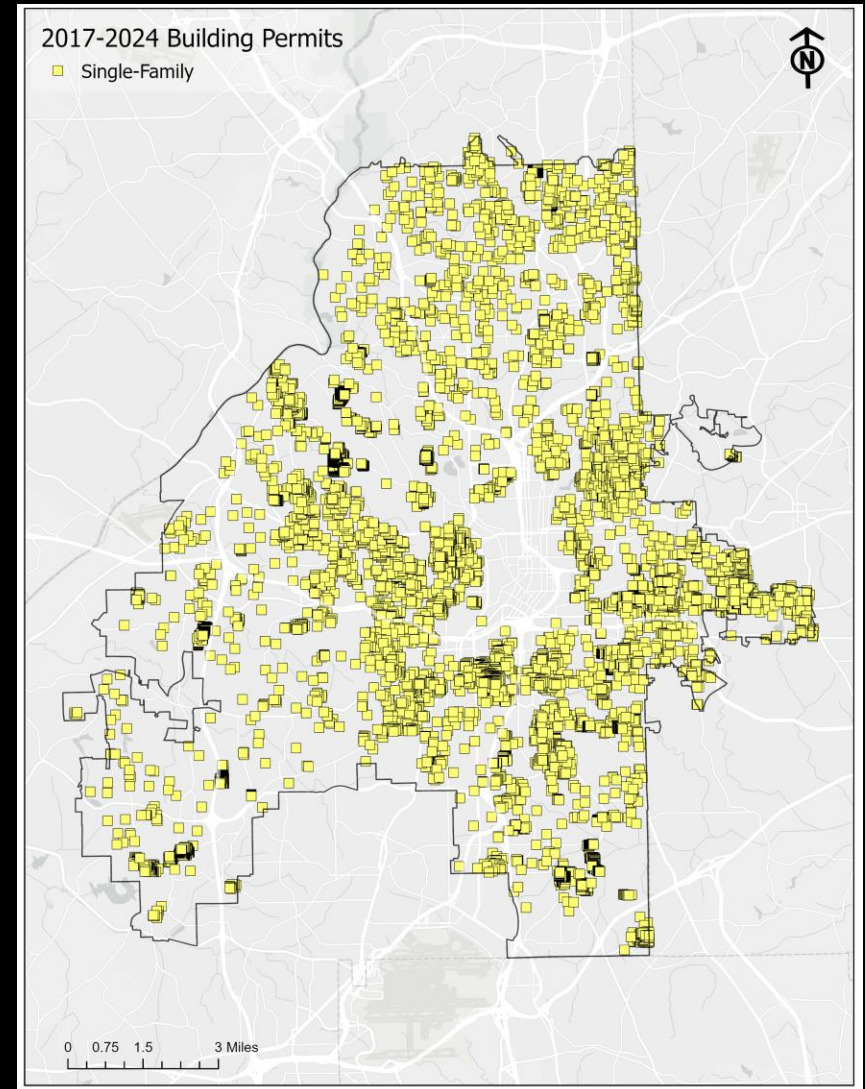
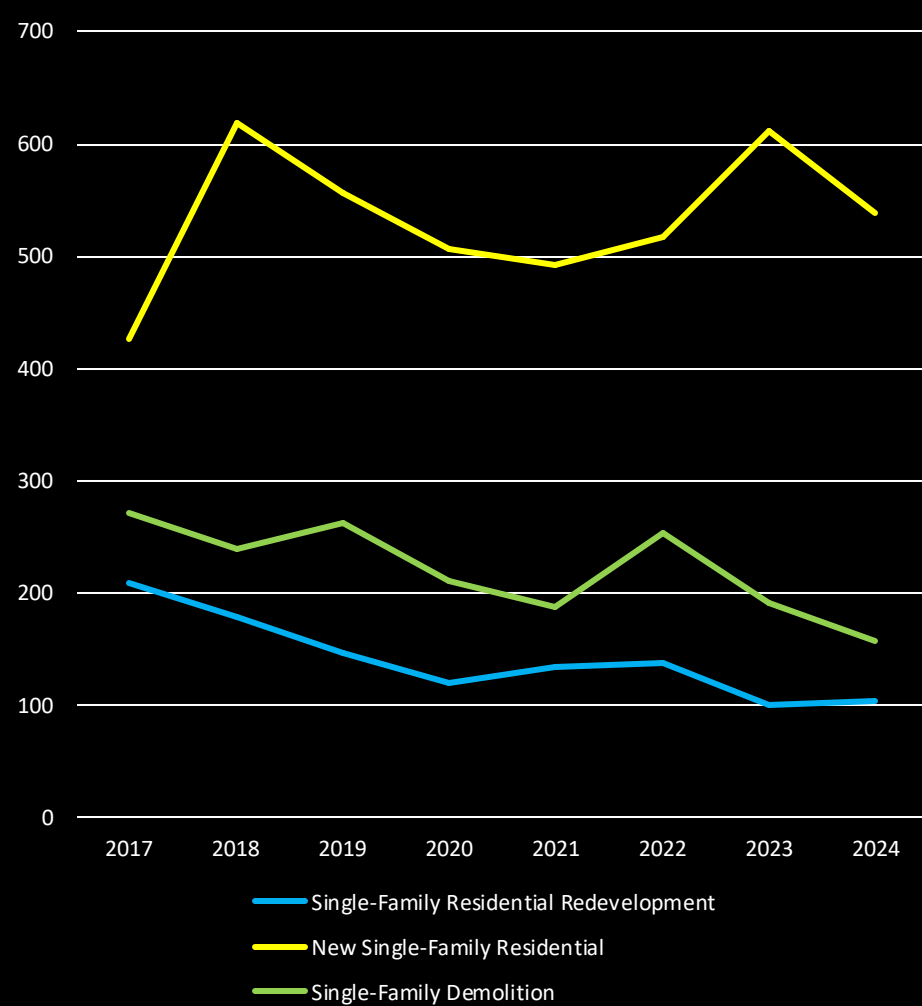
IMPLICATIONS: THE FUTURE OF THE CITY'S TREES

- Most trees are on private property.
- Development has increased significantly since 2012.
- Some zoning categories permit complete or almost complete removal of trees (multi-family, industrial).
- Street trees do not provide the same benefits as trees in natural areas and forests.
- The gap between quality canopy gain and overall loss is widening.
- Loss is outpacing gain.
- Temporary gains give false sense of canopy stability (Loss-> Gain-> Loss)

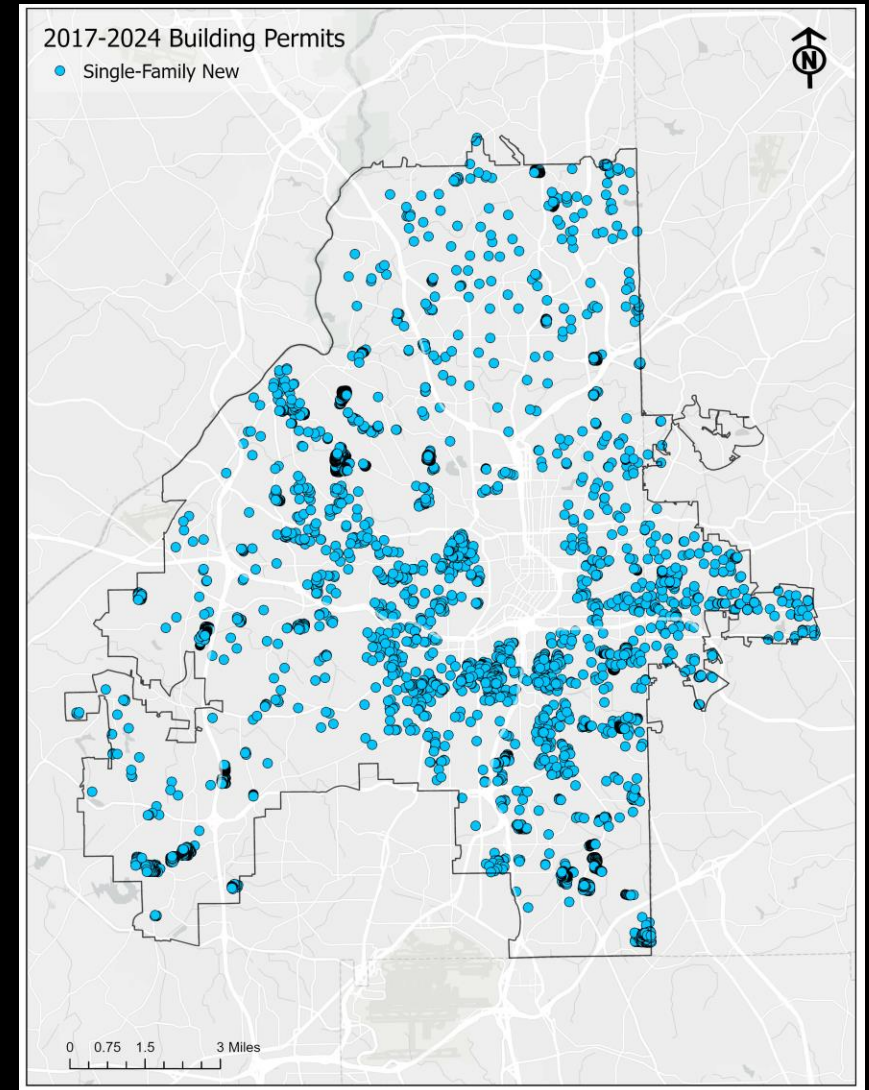
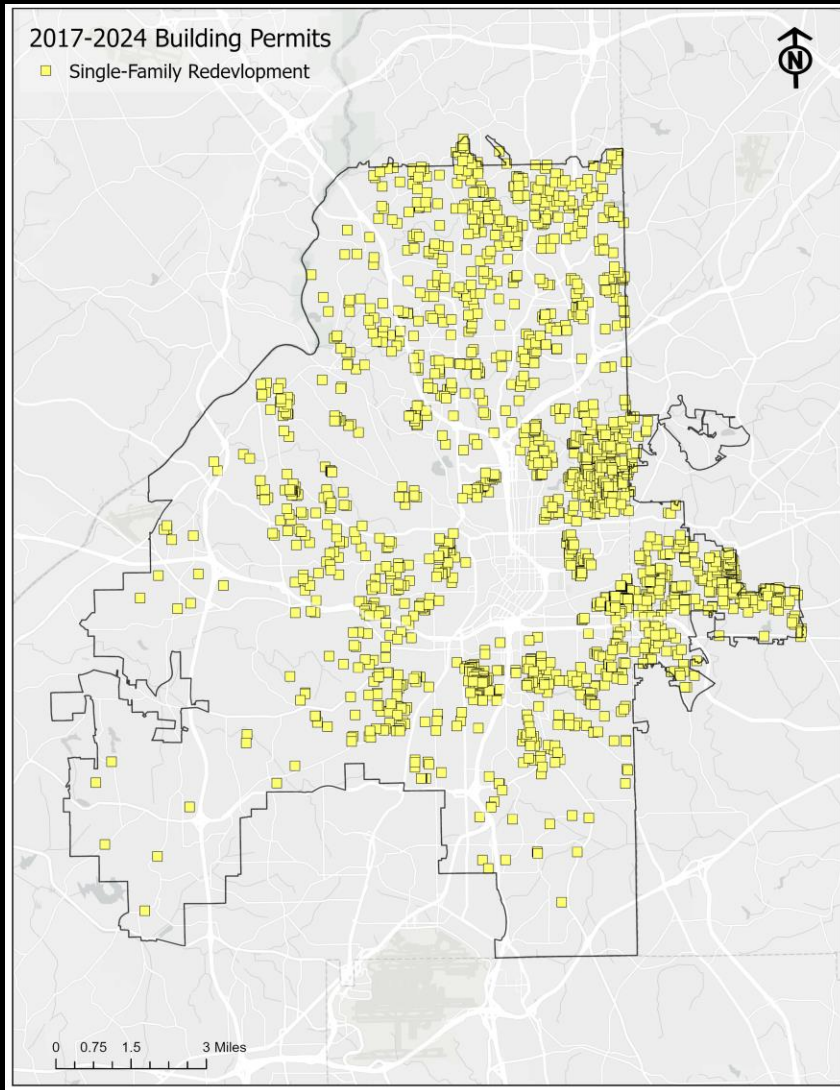


SINGLE-FAMILY BUILDING PERMITS 2017-2024

Single-Family

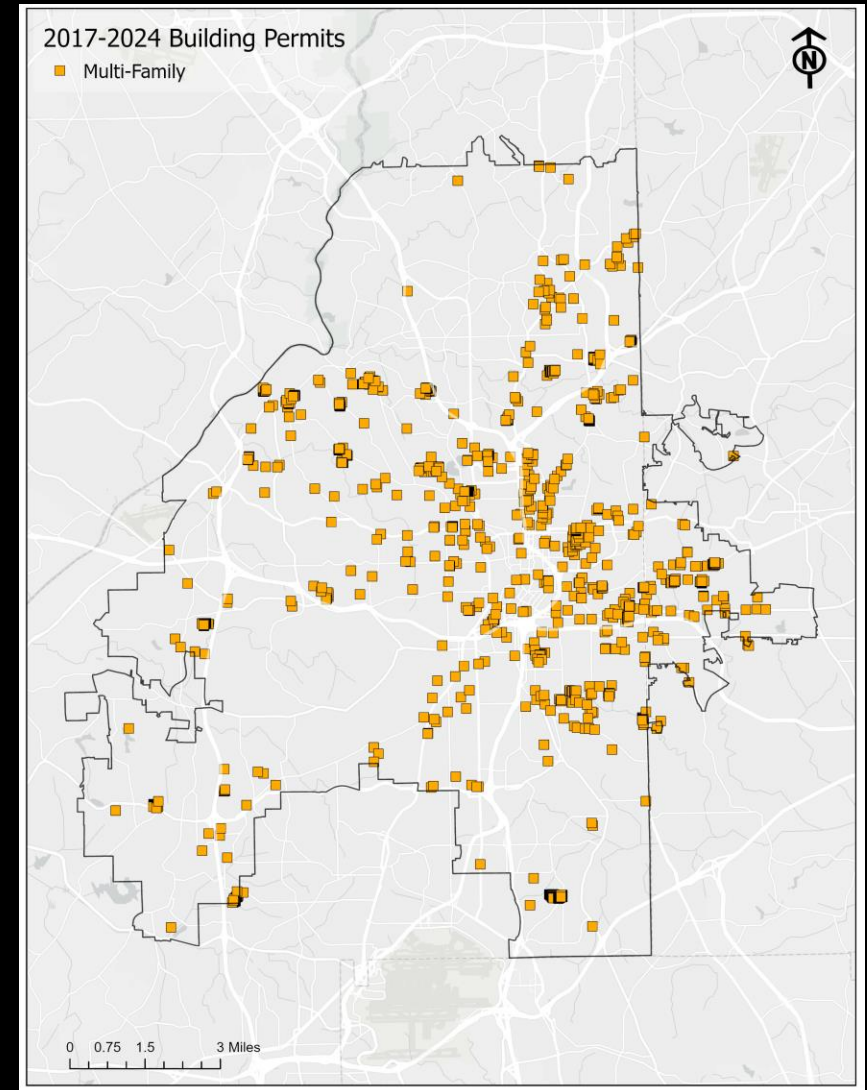
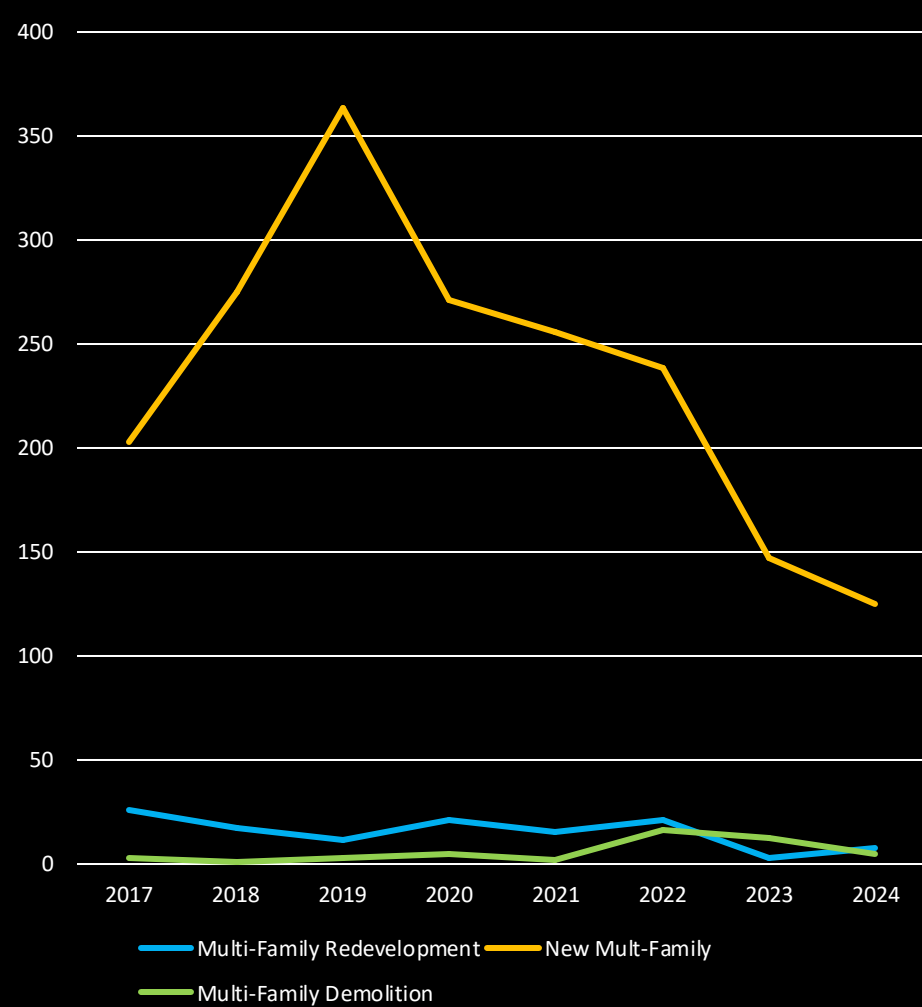


SINGLE-FAMILY RESIDENTIAL PERMITS

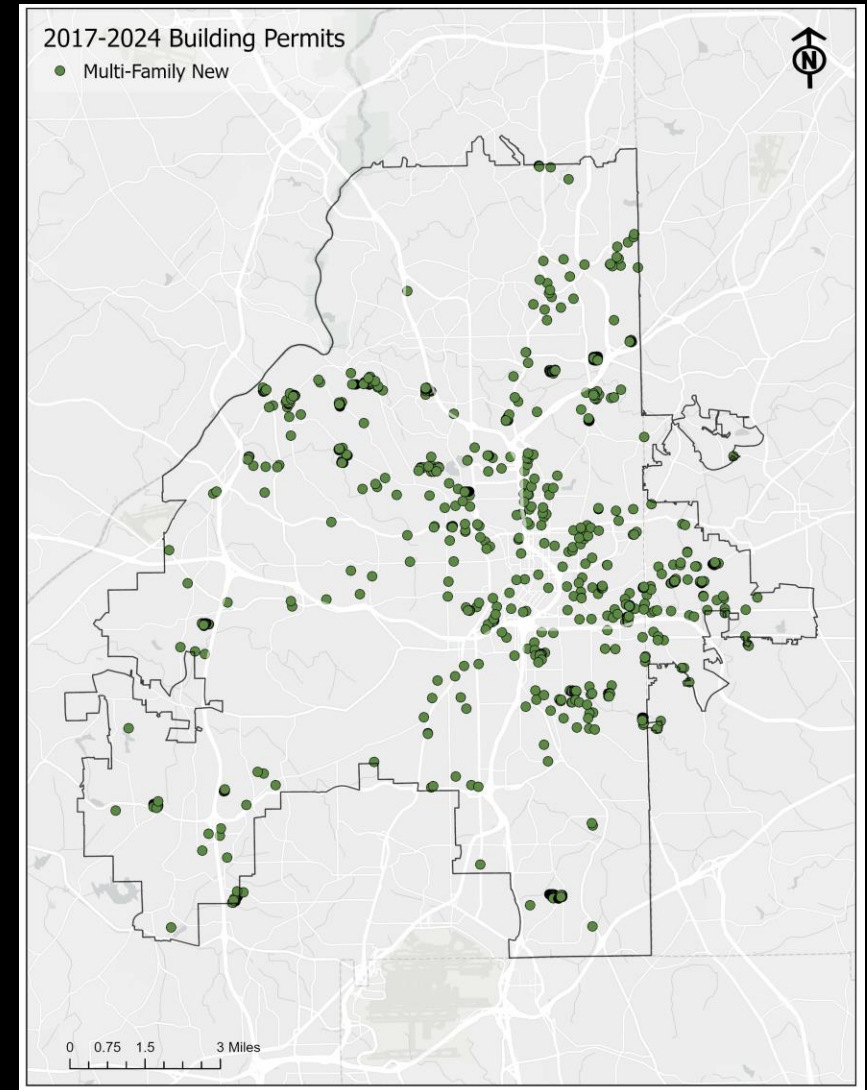
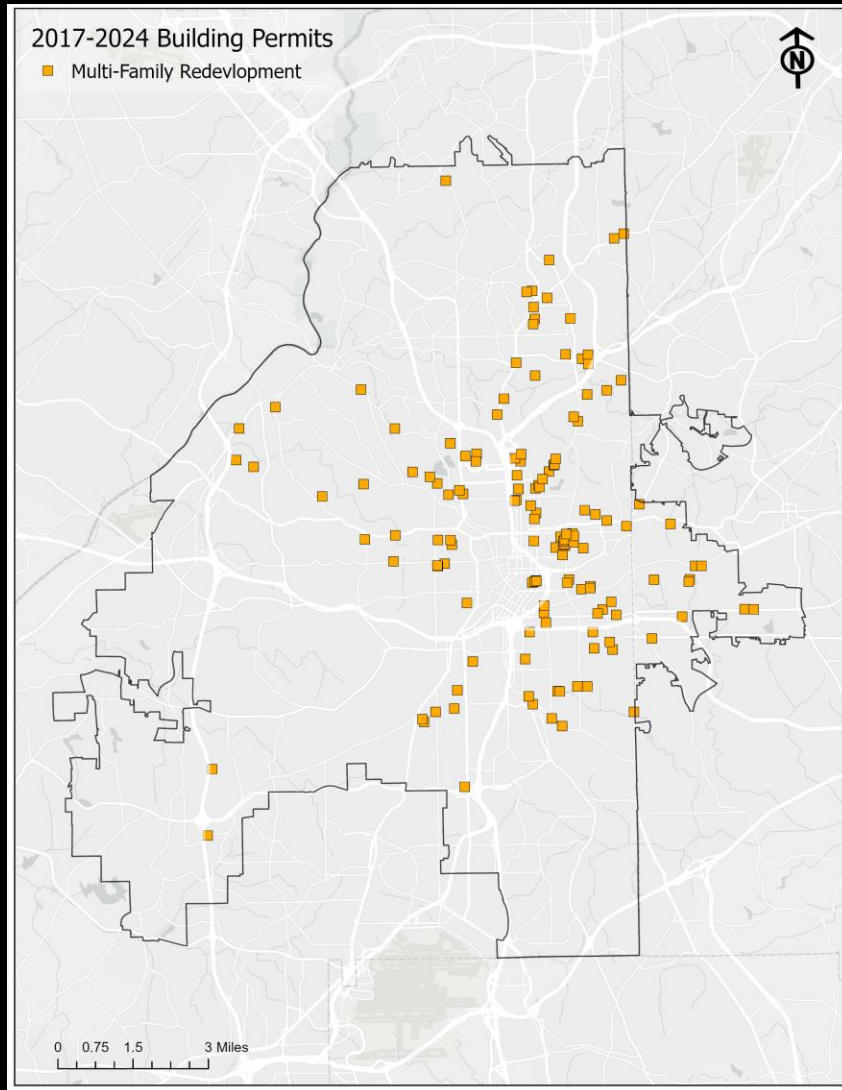


MULTI-FAMILY BUILDING PERMITS 2017-2024

Multi-Family

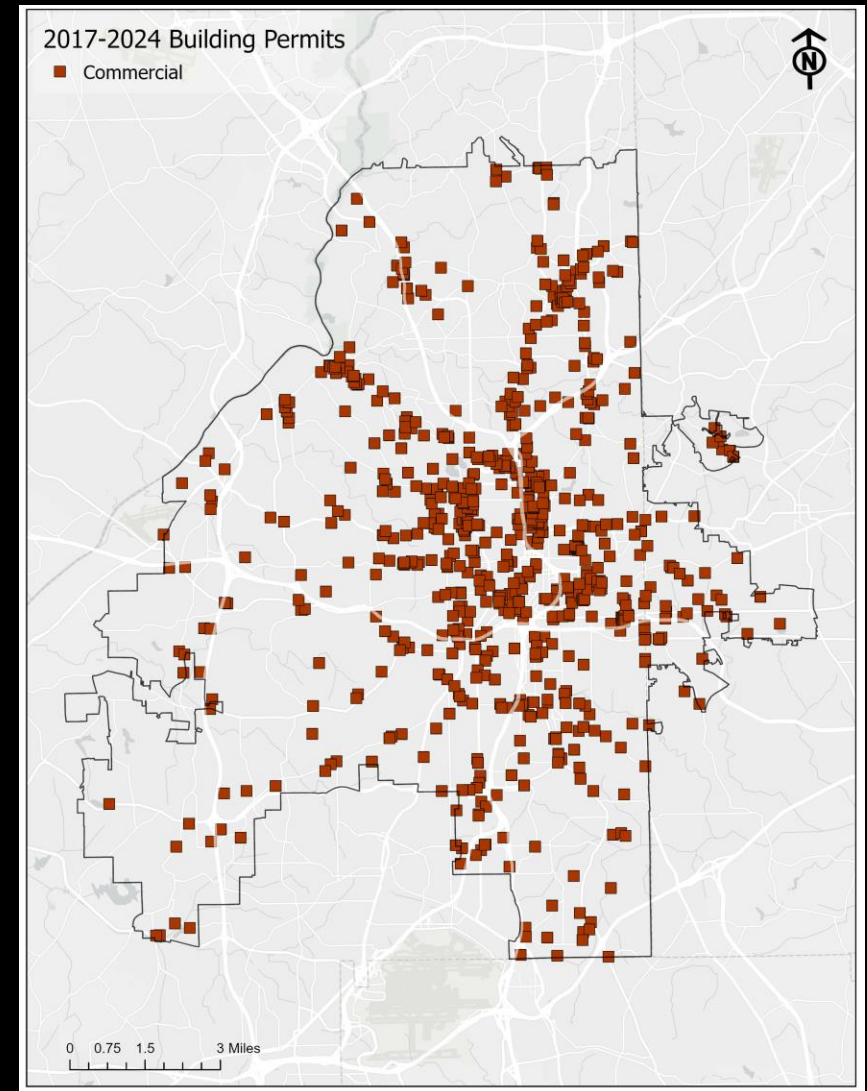


MULTI-FAMILY RESIDENTIAL PERMITS

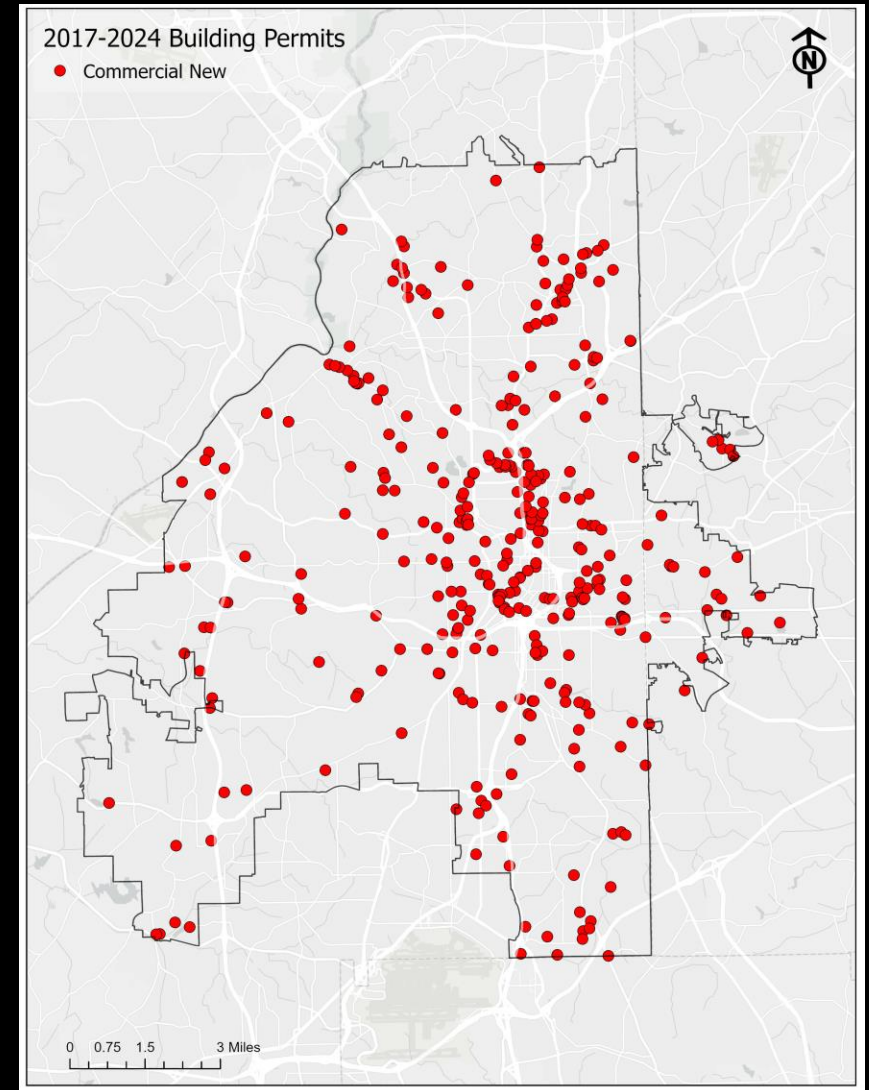
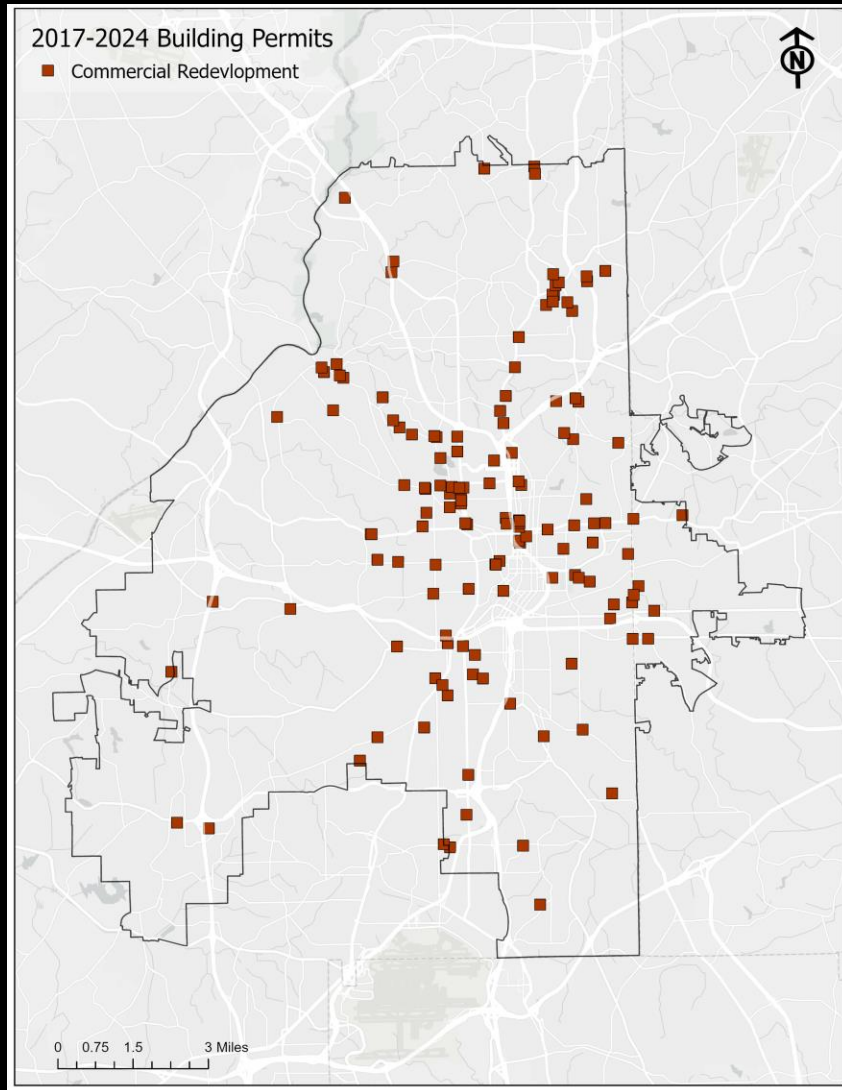


COMMERCIAL BUILDING PERMITS 2017-2024

Commercial

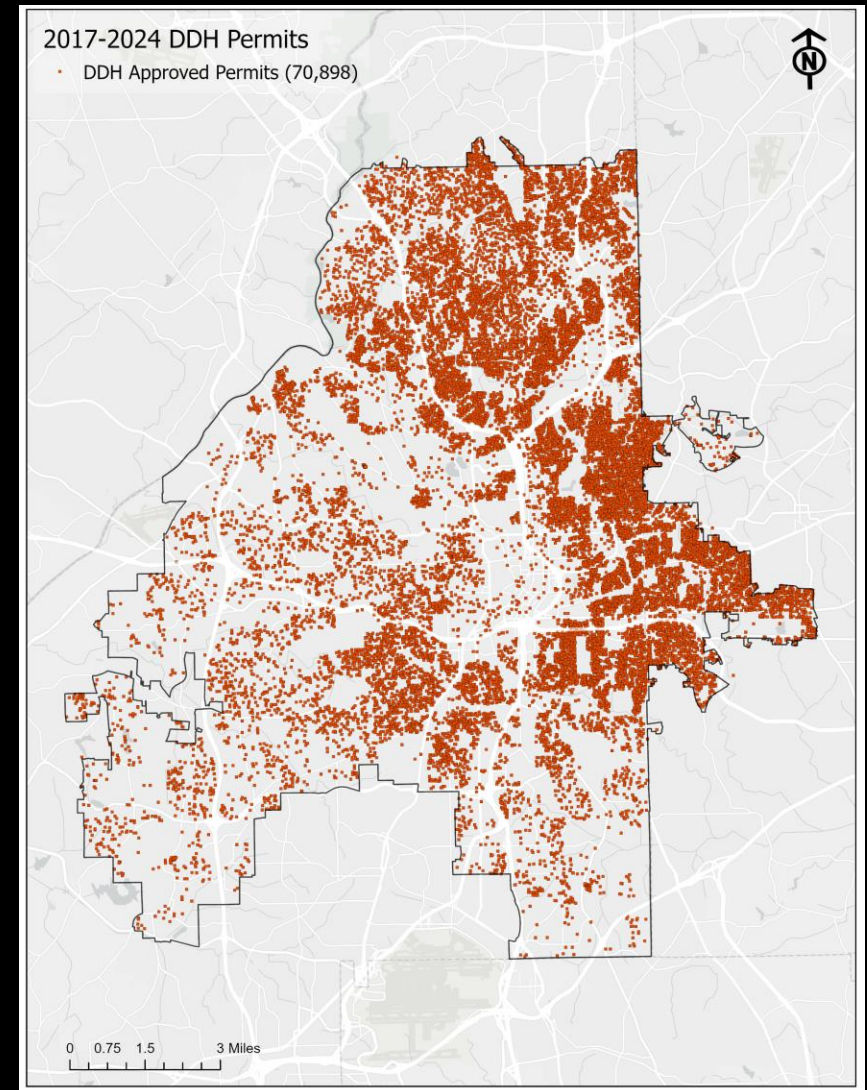
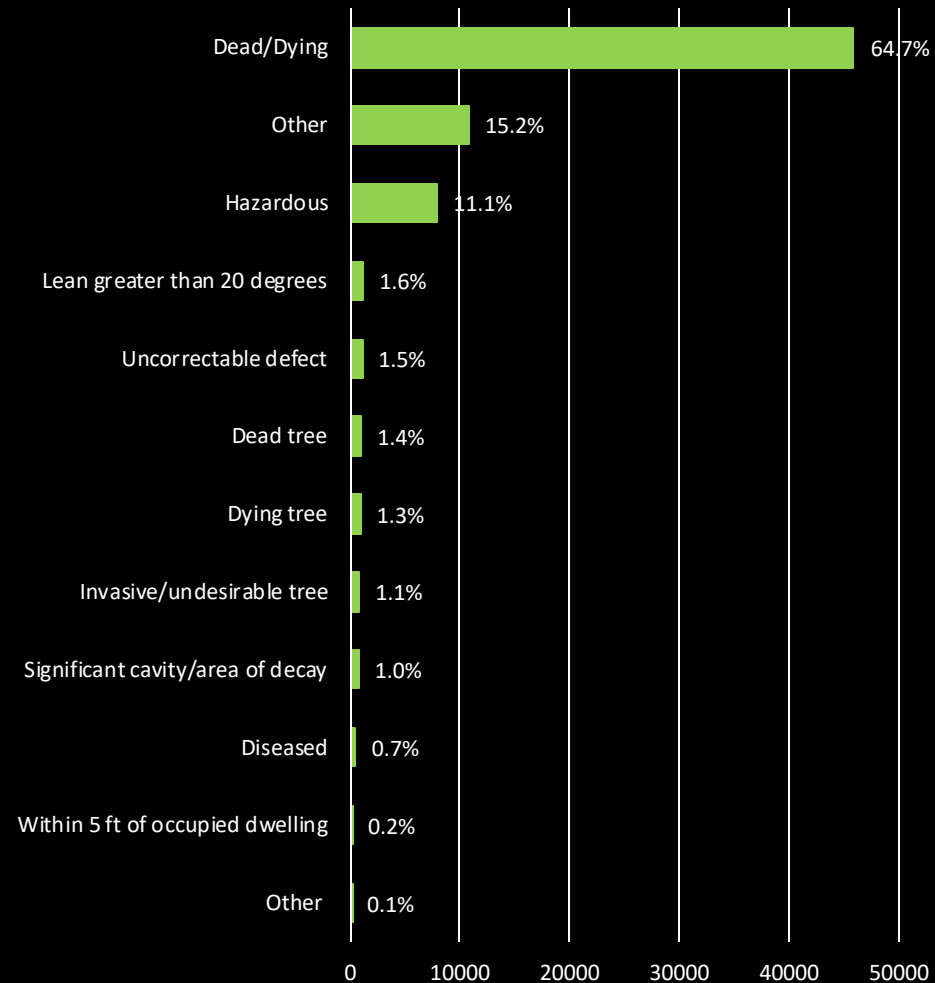


COMMERCIAL PERMITS



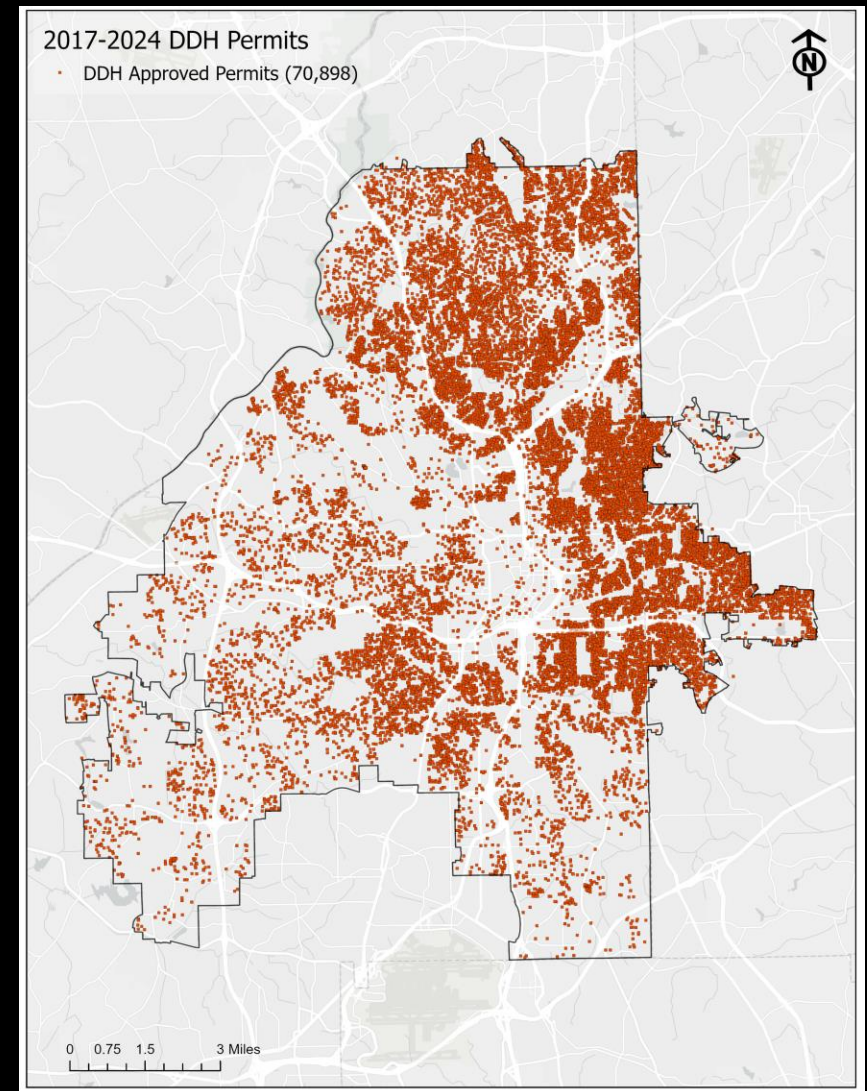
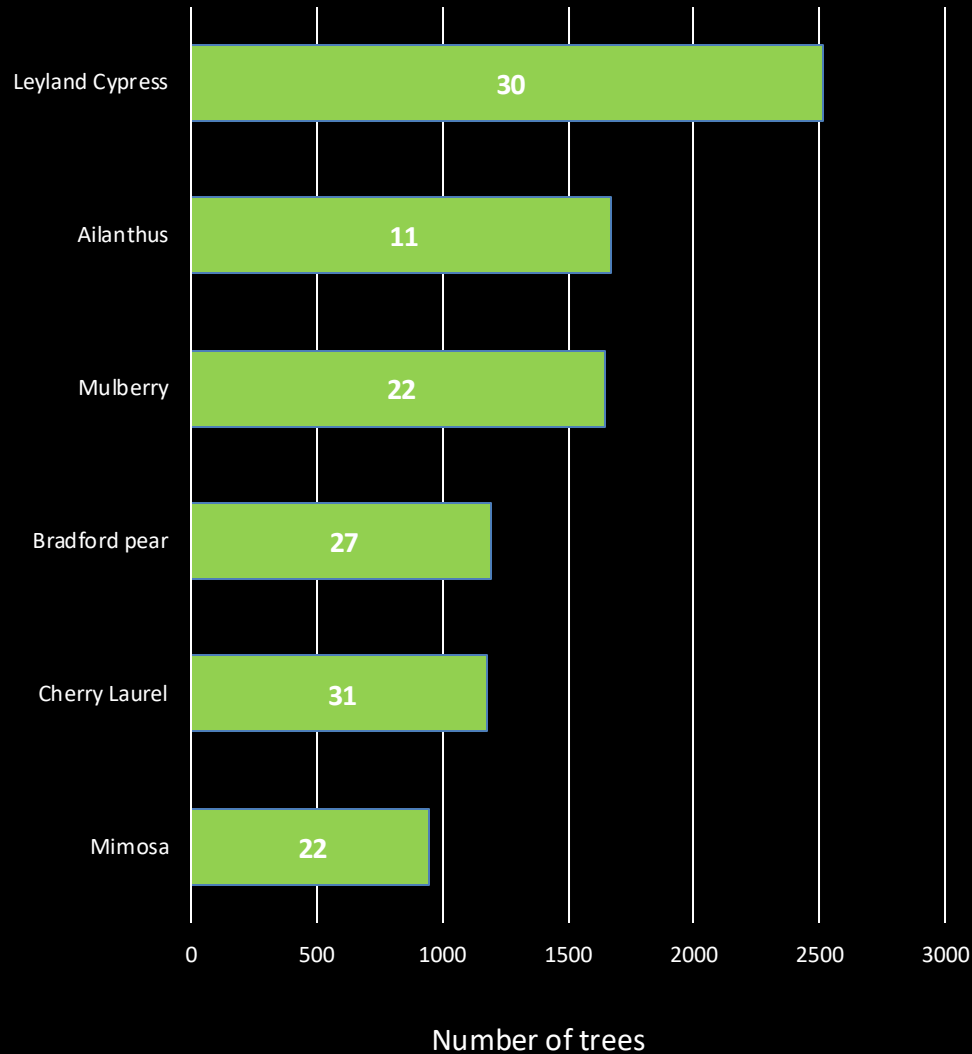
DEAD, DYING AND HAZARDOUS PERMITS

DDH Removal Reason 2017-2024



DEAD, DYING AND HAZARDOUS PERMITS

Top DDH Removals by Invasive/Undesirable Species (avg DBH)



CITY GOALS: CONSERVE AND MAINTAIN UTC AT 50%

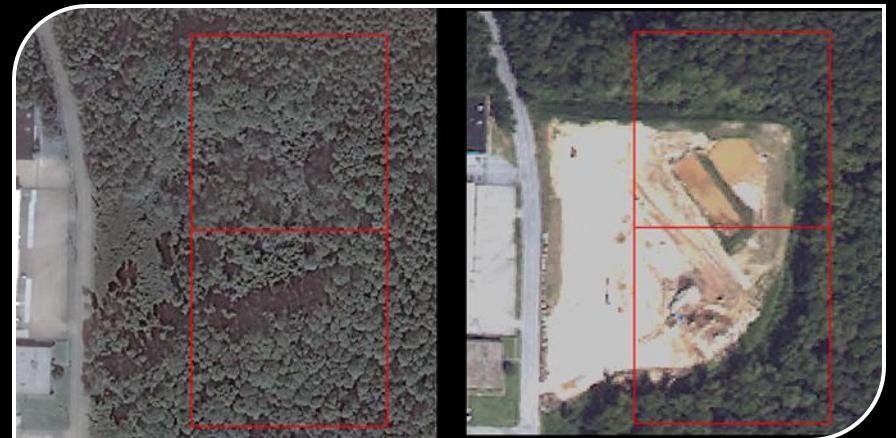
- **Official City Goal:**

Maintain 50% canopy coverage with no net loss (Office of Resiliency and City Council Resolution).

- **Reaching the Goal:**

Plant to increase canopy.

Preserve to mitigate loss.



CITY GOALS: HOW DO WE GET TO 50% CANOPY COVERAGE

- Existing UTC = 45.7 % (40,609 acres)
- 50% UTC = ~3,700 acres increase of UTC

Plant trees on public land

Possibilities: 2,040 acres of Non-tree Vegetation (NTV)

~ 1,110 (NTV) on parkland.

~ 950 acres of NTV on APS land

and other public land (GDOT, MARTA, FULCO).

Plant trees on private land

Possibilities: ~18,000 acres NTV (lawns) on private land.

Incentivize residents and businesses to minimize
reduce lawns and plant new trees.



Non-Tree Vegetation 2018

CITY GOALS: NO NET LOSS OF CANOPY

Loss Mitigation

- Modify zoning code as necessary to give incentives and/or requirements to save trees.
- Reduce loss in single-family zoning areas, especially redevelopments where unit density is not increased.
- Permanently protect trees with certain characteristics (size, age, health).
- Permanently protect the largest and best existing forests.
- Public education.



	100%	50%	25%	10%
% Single-Family Lots Built Out to Max Lot Coverage				
Estimated Acres Lost	14,356	7,178	3,589	1,436
Estimated % UTC Lost	36%	18%	9%	4%

Summary of Zoning Regulations in R Districts											
MINIMUM SETBACKS		R-1	R-2	R-2A	R-2B	R-3	R-3A	R-4	R-4A	R-4B	R-5
	FRONT	60 ft.	60 ft.	60 ft.	50 ft.	50 ft.	50 ft.	35 ft.	30 ft.	20 ft.	30 ft.
	SIDE ^a	25 ft.	15 ft.	15 ft.	10 ft.	10 ft.	10 ft.	7 ft.	7 ft.	5 ft.	7 ft. ^c
LOT REQUIREMENTS	REAR	35 ft.	30 ft.	30 ft.	20 ft.	20 ft.	15 ft.	15 ft.	15 ft.	5 ft.	7 ft. ^c
	MINIMUM LOT AREA	2 acres	1 acre	30,000 sq.ft.	28,000 sq.ft.	18,000 sq.ft.	13,500 sq.ft.	9,000 sq.ft.	7,500 sq.ft.	2,800 sq.ft.	7,500 sq.ft.
	MINIMUM STREET FRONTAGE ^b	200 ft.	150 ft.	100 ft.	100 ft.	100 ft.	85 ft.	70 ft.	50 ft.	40 ft.	50 ft. ^c
	MAXIMUM LOT COVERAGE	25%	35%	35%	40%	40%	45%	50%	55%	85%	55%
	MAXIMUM FLOOR AREA RATIO	0.25	0.30	0.35	0.40	0.40	0.45	0.50	0.50 ^d	0.75 ^e	see section 16-07.010
	MINIMUM REQUIRED CAR PARKING SPACES	2	2	2	2	2	2	1	1	1	see section 16-07.010

CITY GOALS: NO NET LOSS OF CANOPY

Loss Mitigation

- Mitigate loss of trees in Zoning categories that have no lot coverage limits.
- Evaluate methods for saving existing trees on multi-family, mixed-use, commercial, and other zones, in addition to SF.
- Evaluate methods for ensuring sufficient space for tree planting on multi-family, mixed-use, commercial, and other zones, in addition to SF.

Percent of City's canopy by Zoning category:

- Single-family (72%)
- Multi-family (10%)
- Industrial (6%)
- Commercial (2%)
- Office/Institutional (2%)
- Planned Development (4%)

Developing 50% of non-single-family sites to the fullest could result in 12% canopy loss; developing 100% of these sites to the fullest could result in 24% canopy loss.

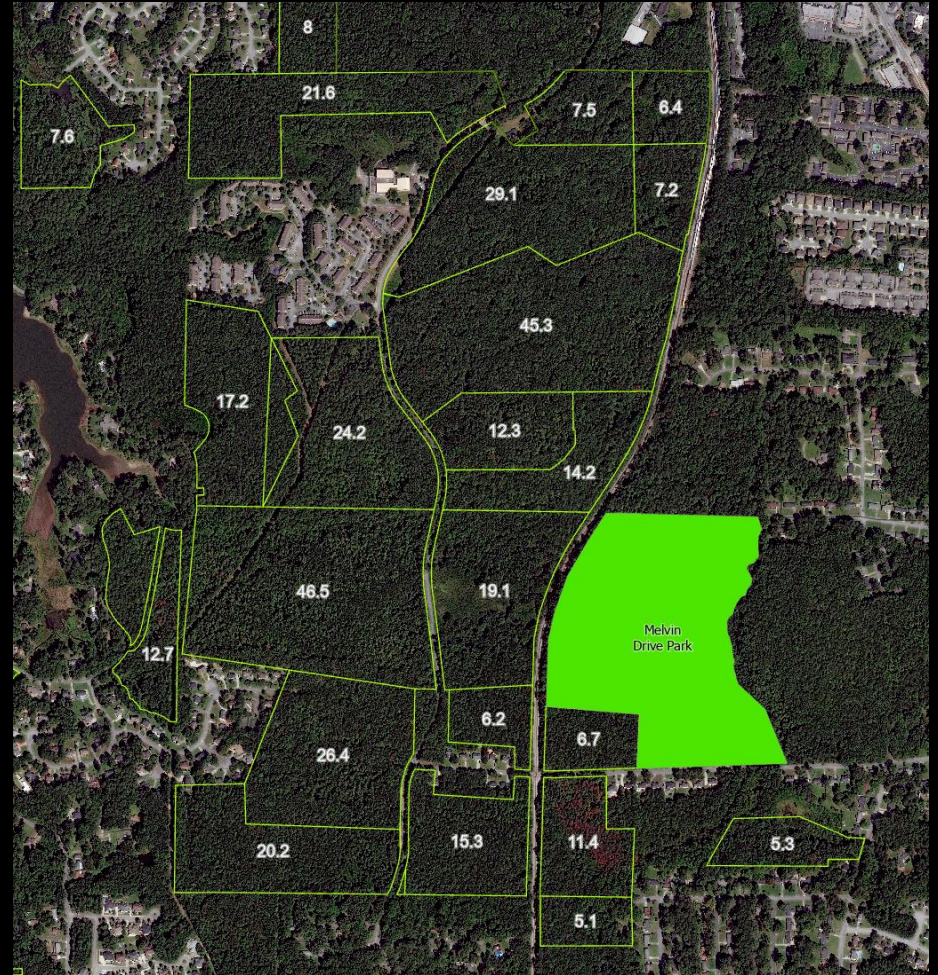
GENERAL RECOMMENDATIONS FOR CONSIDERATION

- Refine policies and set goals to ensure that each area of the City receives the benefits of a healthy canopy and that the overall tree canopy is maintained and increased over time.
- Inform sustainability efforts and policy decisions related to climate, stormwater, air and water quality, tree preservation, and watershed protection.
- Educate the public about the importance of tree canopy in Atlanta.



SPECIFIC RECOMMENDATIONS FOR CONSIDERATION

- Continue permanently protecting some of the few remaining large tracts of undisturbed forests.
 - ~ 5,766 acres of vacant, forested land ($\geq 80\%$ UTC) remain.
 - 14.5% of existing canopy.
 - Only 215 remaining vacant parcels (of 170,000 total parcels) are 5+ ac with 80%+ canopy; totaling 2,502 acres and 6.3% of existing canopy.
- Identify methods for reducing tree loss during redevelopment of single-family properties.
- Evaluate maximum allowable lot coverages, especially on residential land.



SPECIFIC RECOMMENDATIONS FOR CONSIDERATION

- Implement conservation measures for new subdivisions.
- Evaluate open space requirements for multi-family and other developments.
- Consider policies to prevent “pipe farms” (Stalled, partially developed sites).
- Align replanting requirements with the species of trees that are removed or require replanting of native trees to ensure tree replacements are of similar quality and mature stature as the removed trees.



photo by Kathryn Kolb

THANK YOU

[https://geospatial.gatech.edu/AtlantaUTC/
2023 Tree Canopy Hub Site](https://geospatial.gatech.edu/AtlantaUTC/2023TreeCanopyHubSite)



CREATING THE NEXT