

## **Regionally Integrated GIS Data** |

Integrated, scalable geographic databases now built for the Orlando Metro Area.

Code-Driven | Specialized geoprocessing flow generates end-state databases that update with changes to the urban environment.

End-User Focused | Usable in standard GIS file formats and across GIS desktop programs. The Wave Suite also includes custom-formatted maps and tools for use in ArcGIS.

## **One Data Language**

No artificial data boundaries between cities.

## **Universal & Elastic End Products**

Benchmark to municipal standards, etc.

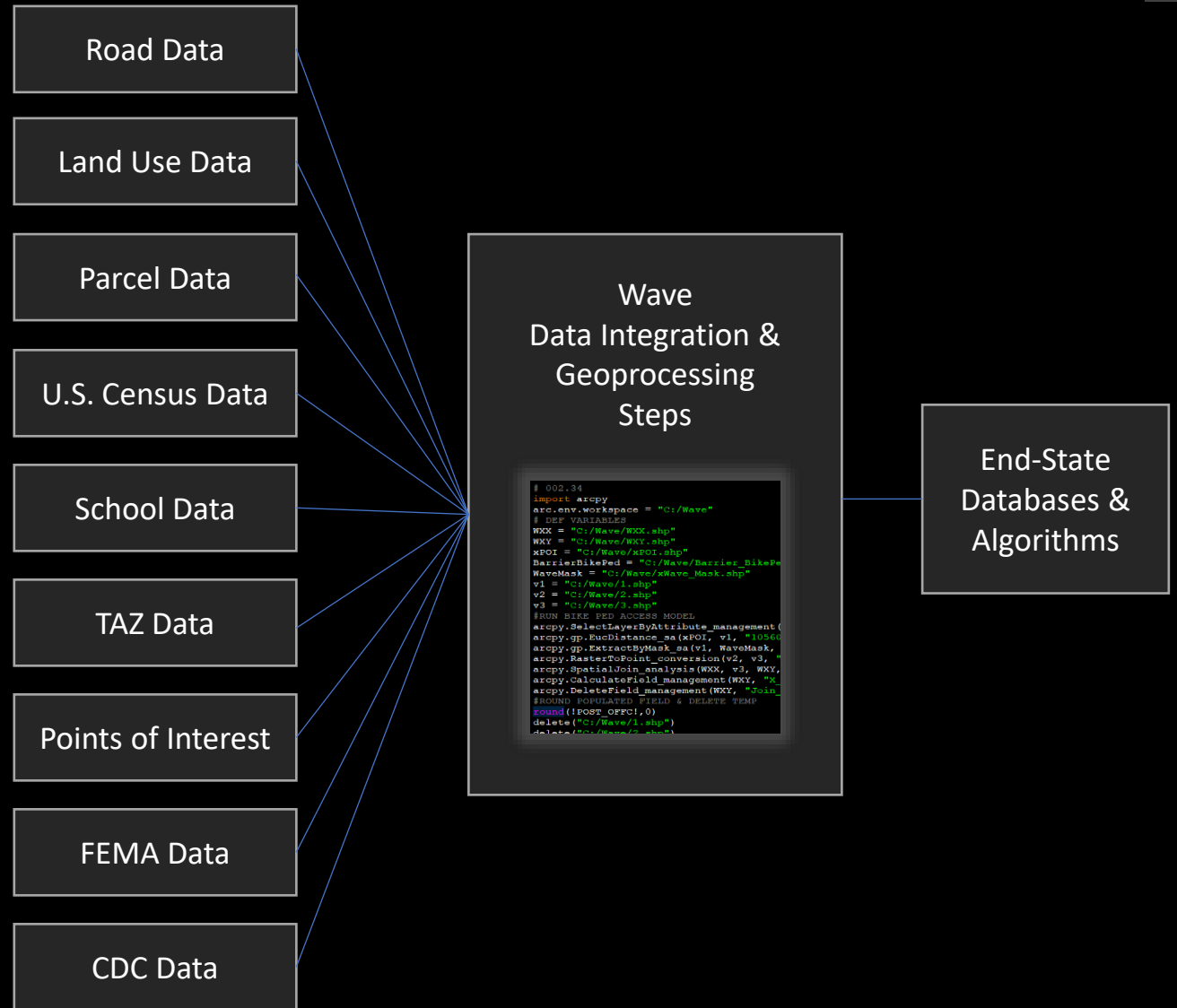
## **Scalable to Other Regions**

Currently built for Metro Orlando

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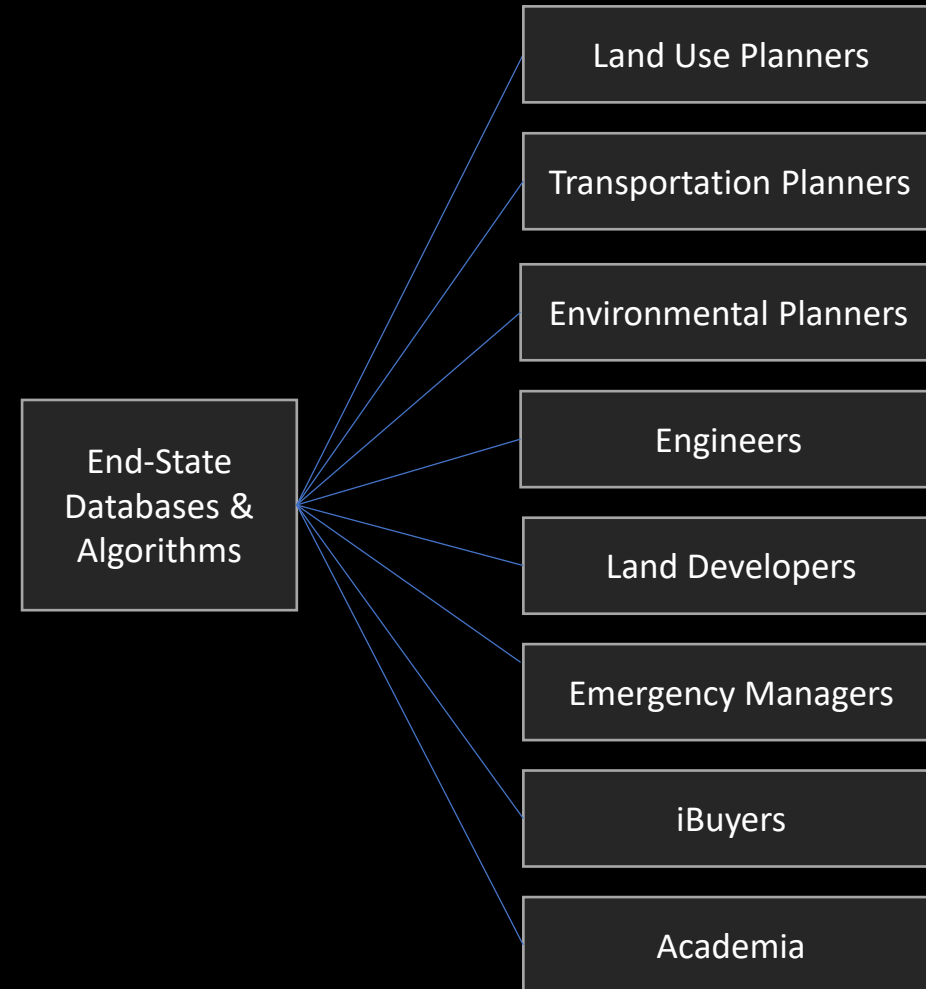
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**End-User Focused** | Usable in standard GIS or CAD file formats and across GIS desktop programs. The Wave Suite also includes custom-formatted maps and tools for use in ArcGIS.



## Feature Review

Point of Interest Data

Transportation Data

Proximity Data

Proximity Metrics

Access Indices

Access Countermeasures

Mobility Indices

Mobility Countermeasures

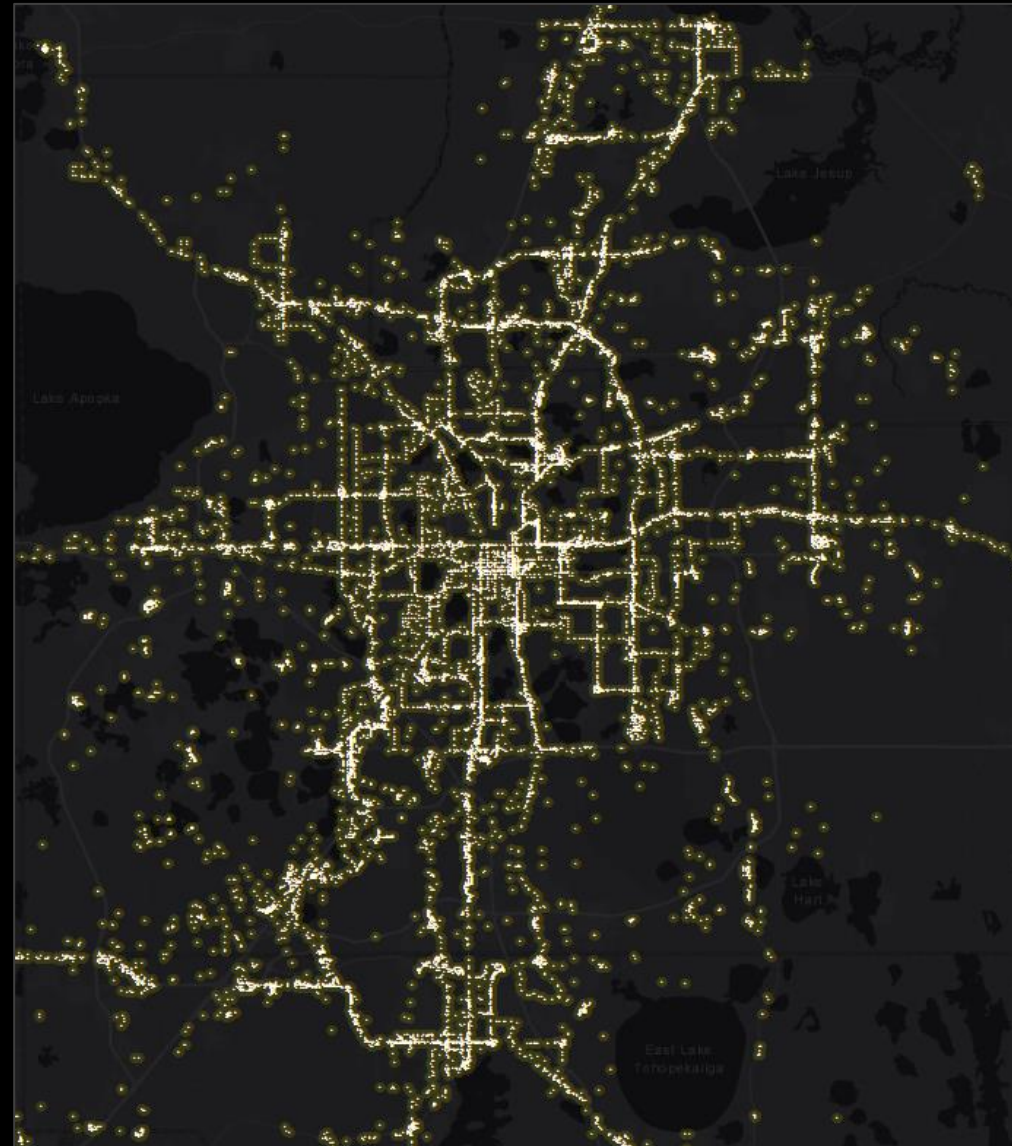
Demographic Insights

Smart Parcels

Environment/Land Use Insights

Wave Suite +

Website Information



**+23,000**

Points of interest

**55**

Point of interest types

**Q/A**

Parcel, DOR, Google

**6-month**

Updates

Next Update: November 2021

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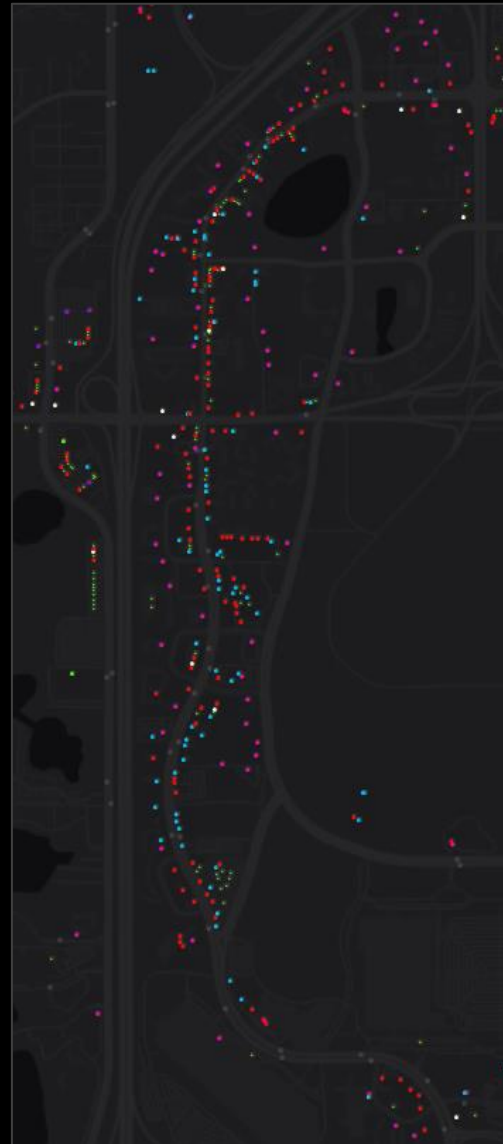
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Auto Parts & Car Wash  
Banks  
Bars  
Bus Stops  
City Halls  
Coffee Shops  
Convenience Stores  
Cosmetic Stores  
Credit Unions  
Entertainment Venues  
Fast Food  
Fire/Police Stations  
Grocery Stores  
Hospitals  
Hotels  
Libraries  
Liquor/Wine Stores  
Malls  
Markets  
Movie Theaters  
Museums  
Parks (Public/Private)  
Post Offices  
Restaurants  
Schools  
Stadiums  
Stores (General Retail)  
SunRail Stations  
& more

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**+1,300 Parks**

Clipped to Water Features

**2 Types**

Public & Private

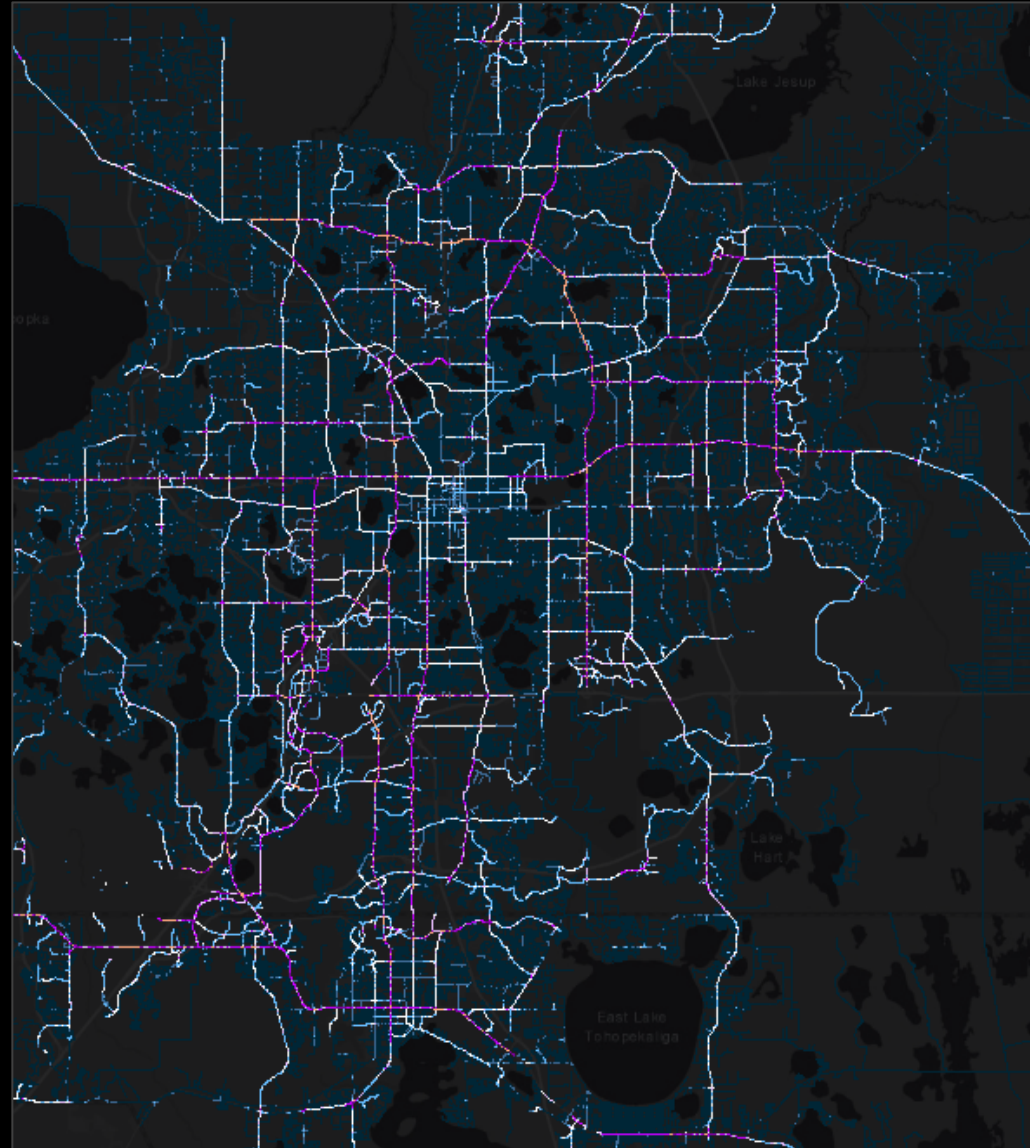
**Trails & Paths**

10' Minimum Width for Trails



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## Data Integration

Municipal, County, Regional

## Stratified & Unified

Wave Regional Data Language  
Now Code-Operable

## Data Updates

New Roads, Construction, I-4  
TIP, PPL-Based Updates



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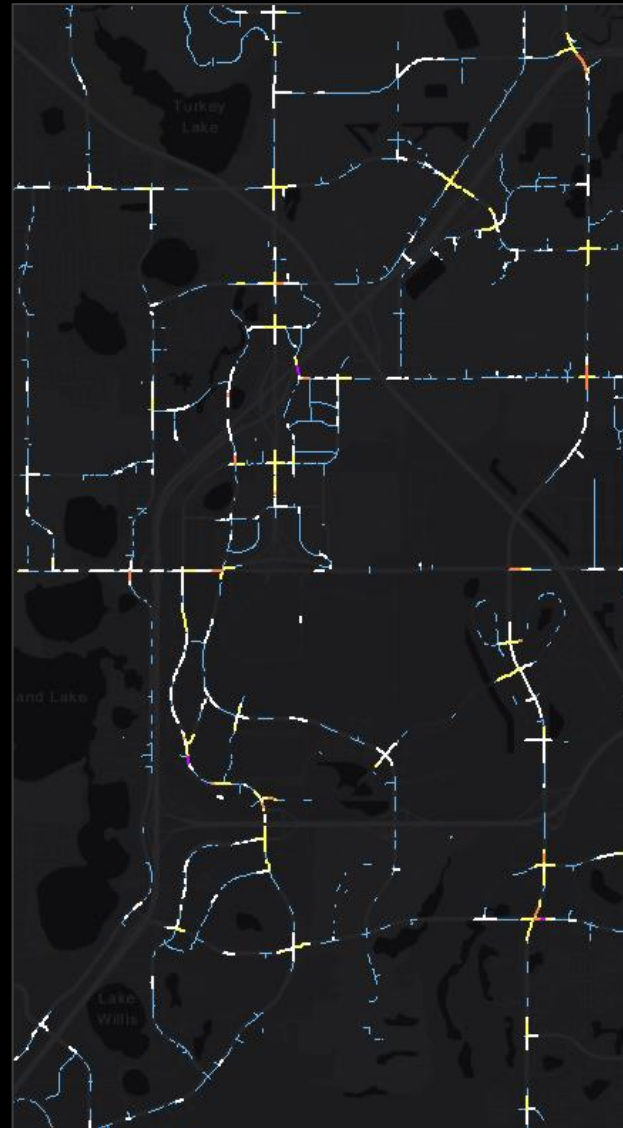
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Speed Limits

Through Lanes

Turn Lanes

Bus-Only Lanes

Total Lanes

Travel Surface Width

Median Width

Median Type

Total Width

Bike Lanes

Bike Slots

Daily Traffic

Percent Truck Traffic

Sidewalk Coverage

Flush Sidewalks

Signalized (Y/N)

Functional Class

Context Class

Jurisdiction

Level of Traffic Stress

FDOT Layers and FDOT ID

Flood Zone

& More

**180,000 +**

Roadway Segments

**20 +**

Roadway Characteristics

**Pre-Formatted**

Output Maps Ready

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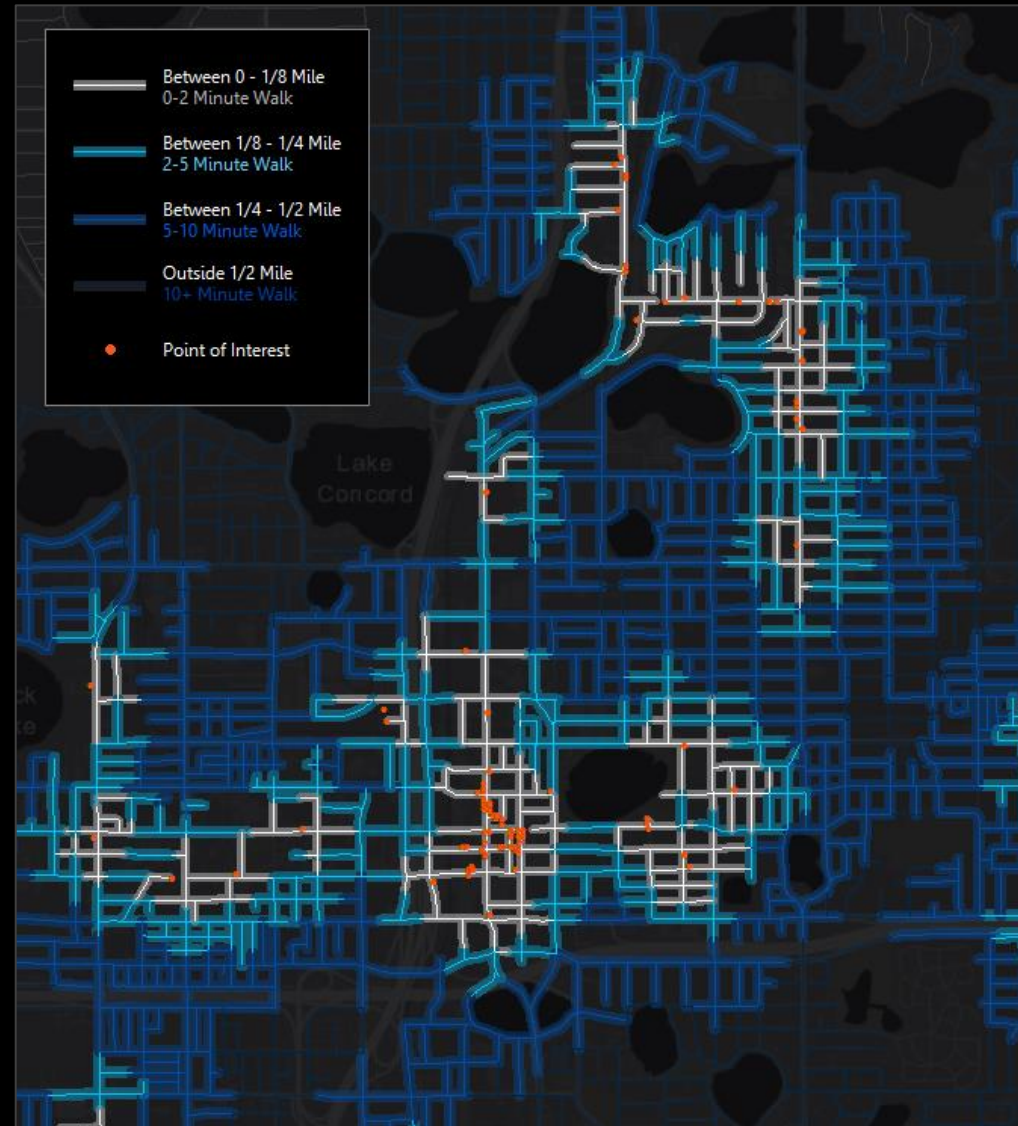
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**Cumulative Link**

Land Use + Mobility Link

**66 Outputs**

55 POI + 11 POI "Bundles"

**Pre-Formatted**

Using Planning Criteria

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X_DEPTSTR	X_DINING	X_ALLENTV	X_LODGING	X_ALLMKT	X_ALLPARK	X_PHARMACY
7483	6445	7587	7946	4221	4156	9426
8116	7078	8220	7815	3596	3527	8797
8405	7367	8508	8469	2892	4009	8691
8585	7546	8688	7855	4465	3567	8838
7931	6892	8034	8063	3835	3775	9045
8381	7342	8484	8439	2927	4044	8726
8694	7655	8797	8862	3011	4129	8810
8518	7480	8621	8688	2836	3954	8635
8907	7868	9010	8964	3465	4583	9264
8767	7728	8870	8824	3330	4448	9129
5930	4892	6033	6393	4179	3819	10385
6937	5898	7040	7399	5186	4826	99999
6849	5811	6953	7312	5099	4738	99999
7209	6171	7313	7672	5458	5098	99999
5652	4614	5755	6115	3901	3541	10107
6118	5079	6221	6580	4367	4007	10539
6603	5565	6706	7066	4852	4492	99999
7079	6040	7182	7542	5328	4968	99999
4110	2397	7486	7597	2397	4491	4304
4890	3177	8266	8376	3177	5270	5084
4703	2978	8079	8177	2978	5071	4897
3875	2152	7251	7351	2152	4245	4069
4249	2536	7625	7735	2536	4629	4443
5029	3310	8406	8509	3310	5403	5224
2566	1240	1298	1779	1234	2101	5363
2071	1795	1913	1397	1849	2122	5738
3870	1479	1537	2007	1462	2899	5591
2176	1387	1445	1502	1380	2484	5510
3263	908	966	1441	896	1697	5025
2299	1619	1677	1625	1613	2253	5742

## Data View

Distance from roadway segments to points of interest provided in feet.

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### **Bicycle and Pedestrian Distance**

Allows for travel along roads, paths and trails

### **Automobile Trip Distance**

Allows for travel along roads

### **As-the-Crow-Flies Distance**

Allows for unobstructed travel, except over lakes

### **Number of "X" within ½ Mile**

Counts number of points of interest (by type) within ½ mile

### **Z-Distance "Fluidity"**

Difference between bike/ped distance and auto distance

R Distance =  $Z/W$  -- % of trip time saved

### **U-Distance "Fluidity"**

Proportion between bike/ped distance and crow distance

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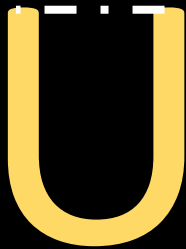
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- Proximity Metrics**
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## U Fluidity

$$\frac{\text{Bike-Ped Distance}}{\text{As-the-Crow-Flies Distance}}$$



Calculated Relative to 11  
Point of Interest “Bundles”

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Food

Recreation

Goods & Services

Entertainment

Night Life

Transit

Municipal Services

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## Food

Recreation

Goods & Services

Entertainment

Night Life

Transit

Municipal Services

1) Proximity, and  
2) Optionality

Grocery Stores  
Dining Options  
Markets/Convenience

All 3 within  $\frac{1}{4}$  mile =  
Highest possible score

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## Food

Recreation

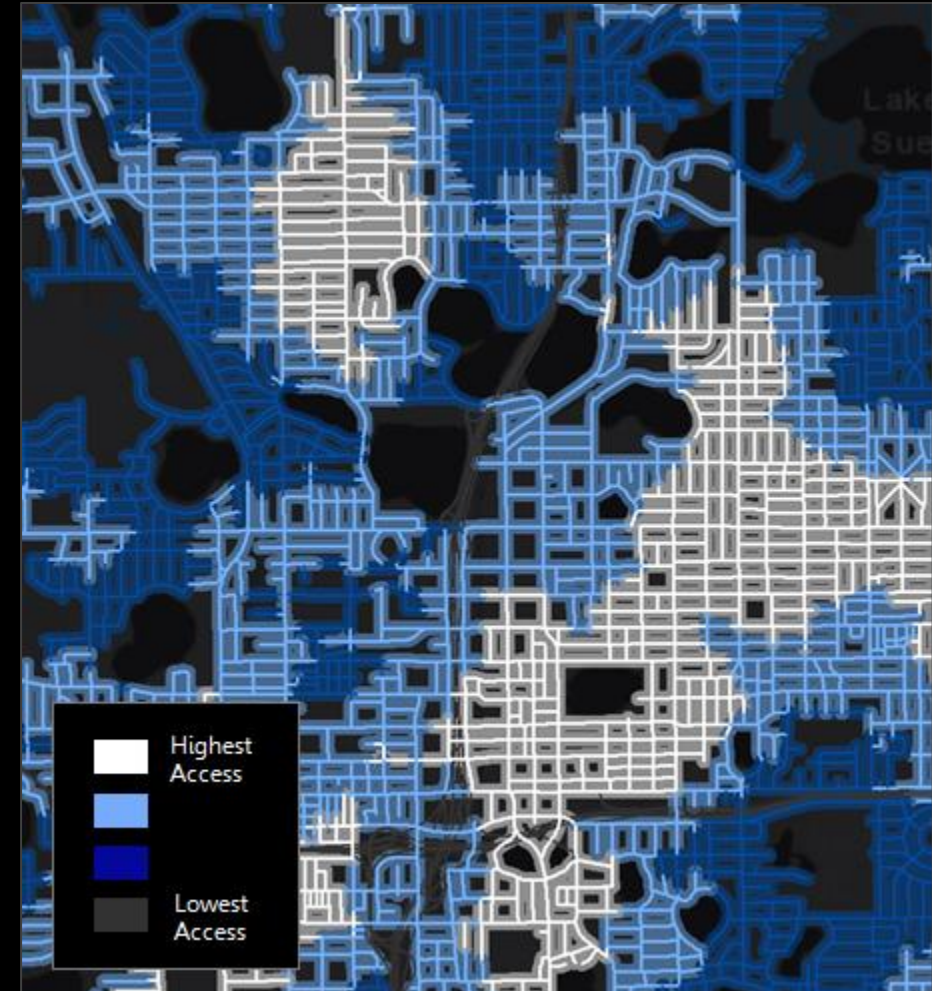
Goods & Services

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**Recreation**

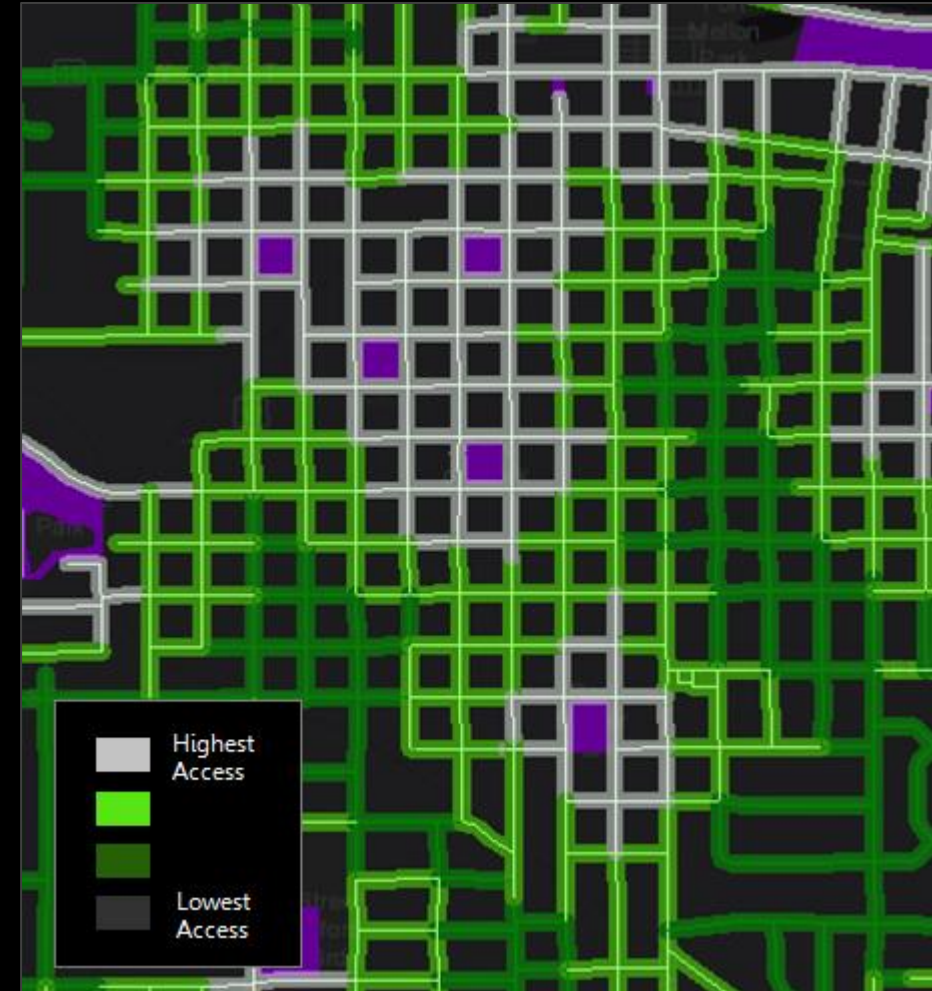
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Goods & Services

Entertainment

**Night Life**

Transit

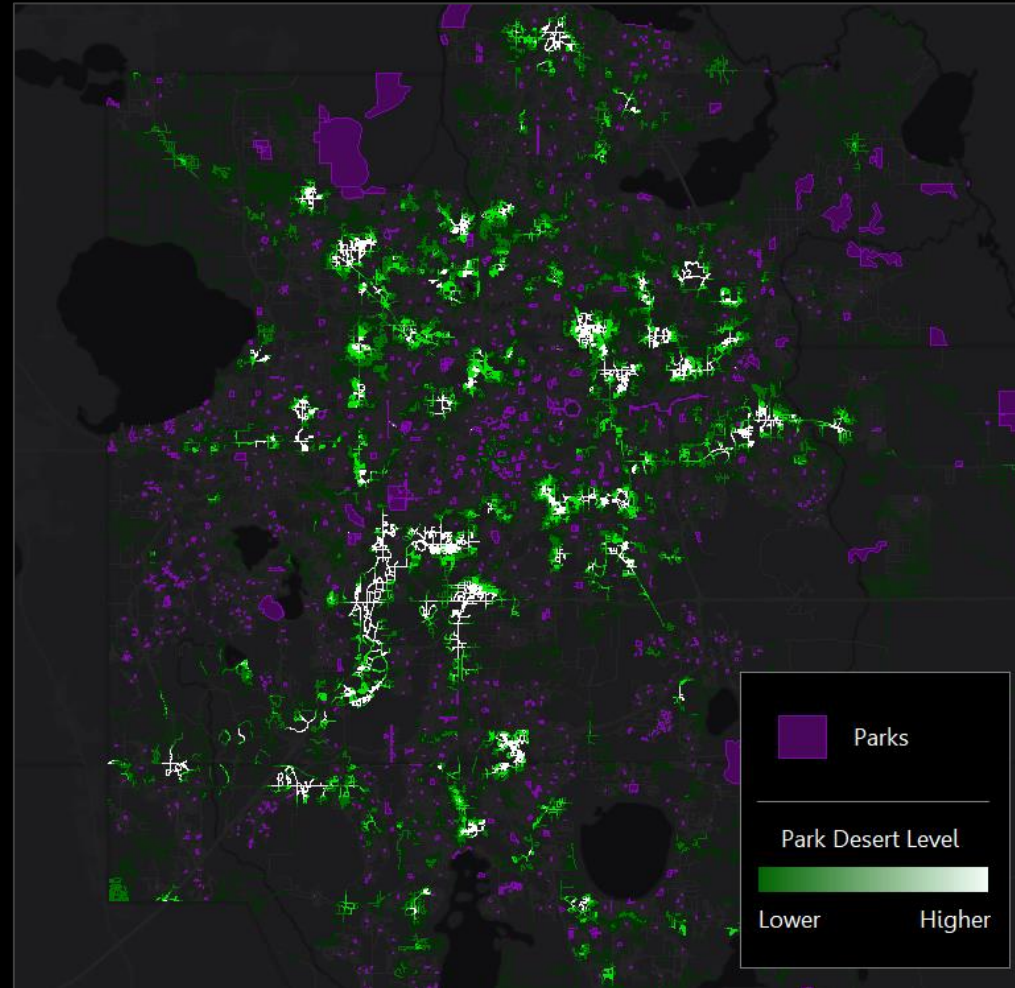
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Park Deserts

## Calculates Land Use Gaps

Using Population Density, Access Indices, etc.

## Smart Overlay

With publicly-owned parcels to alleviate the park shortage

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Food Deserts

## Smart Overlay

With vacant parcels  
to fill the food shortage

Data provides Leverage to  
Alter Future Land Use  
For Vacant Parcels

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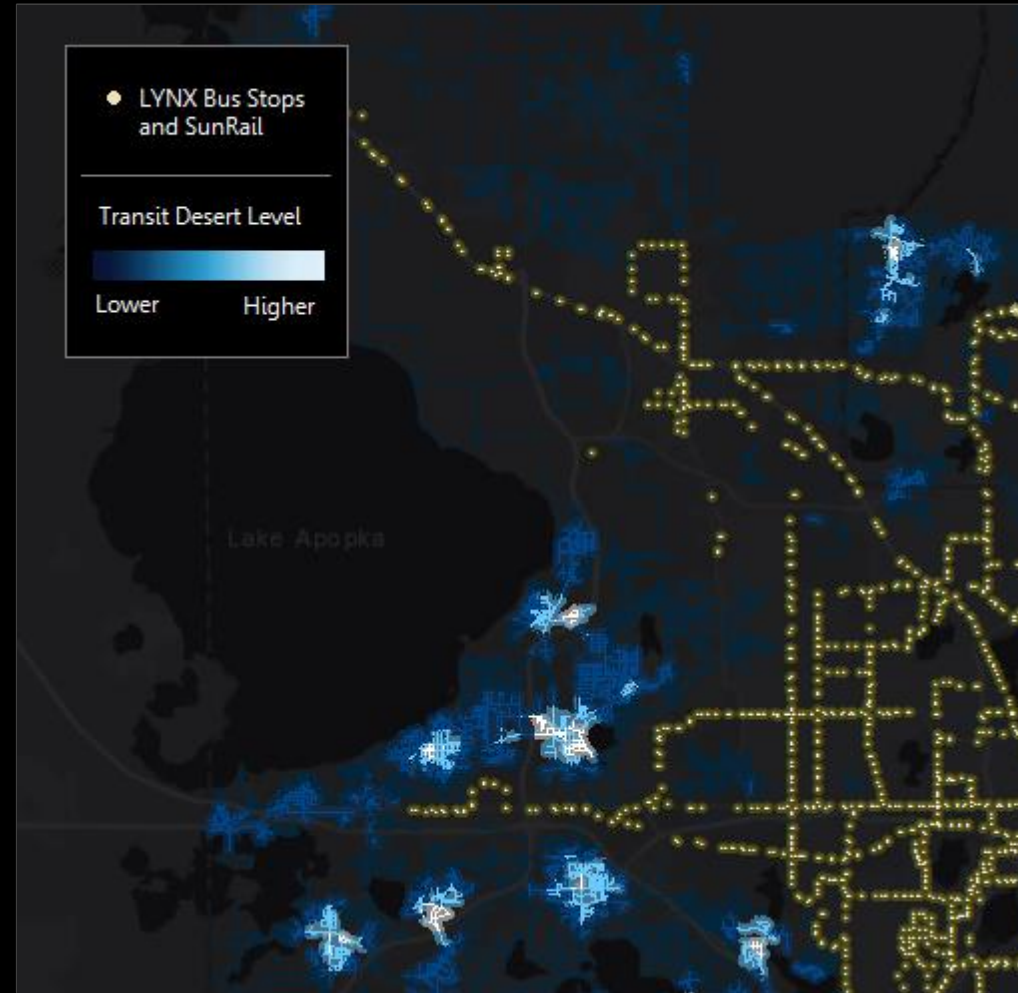
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Transit Opportunities

## Smart Overlay

With 2045 population density  
to plan for the long term

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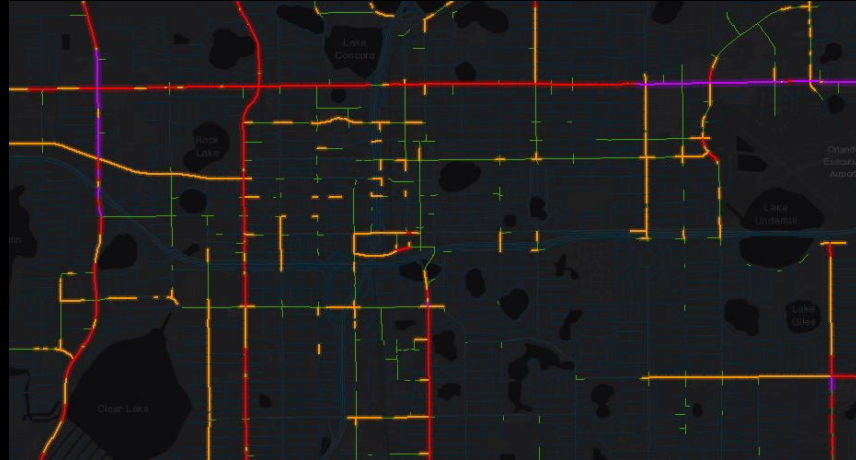
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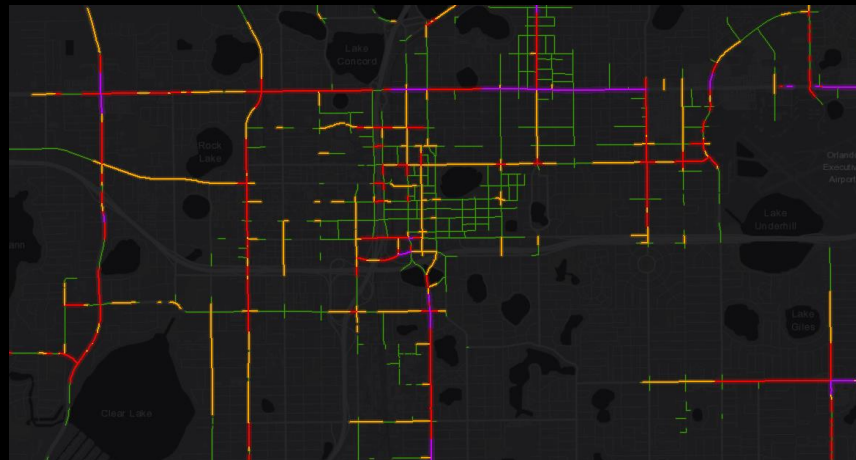
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## Roadway Feature Risk



## Roadway Feature + Location Risk



## Bike/Ped Obstacles

Observed bike-ped crash rates associated with **roadway characteristics** in Metro Orlando feed into a 0-100 risk score

## Land Use Context

Points of interest that are associated with higher bike-ped crash rates elevate the risk profile for nearby roadways. In short, where are people likely to cross a road?



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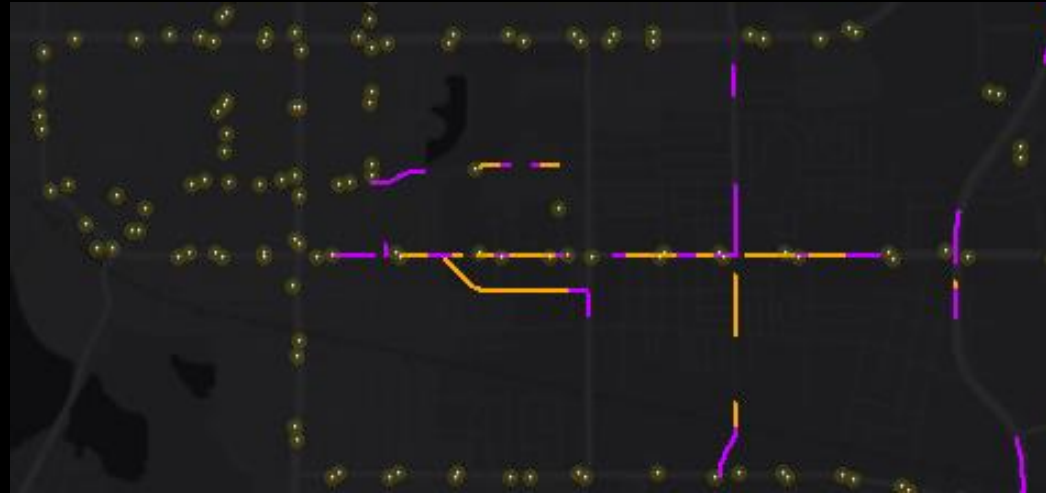
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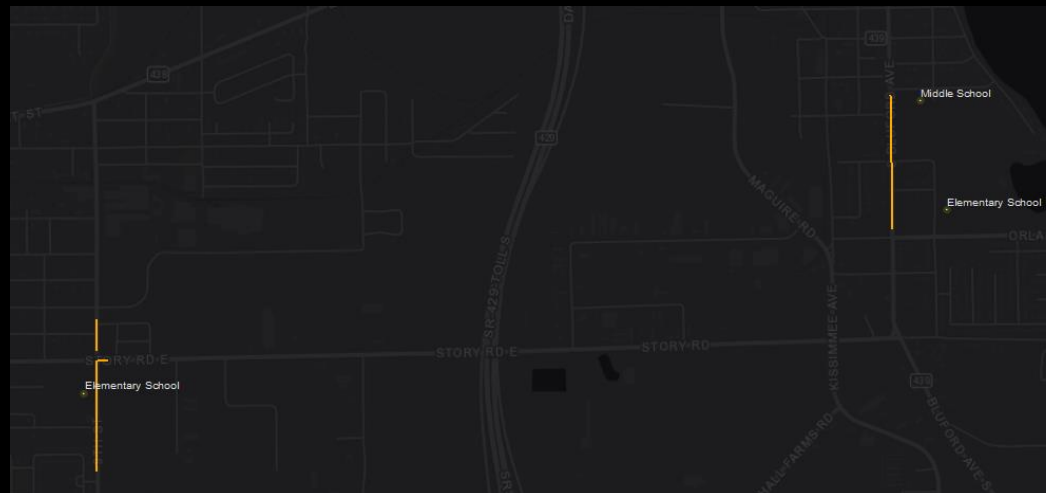
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## High-Speed Sidewalk Gaps Near Transit



## High-Speed Sidewalk Gaps Near Schools



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## Protectable Bike Lanes

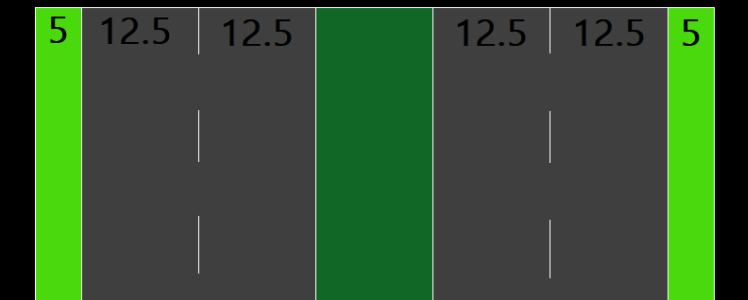
### Using Context Classification

\*Absorb Bike/Ped Safety Project Costs into the Repave and Restripe Process

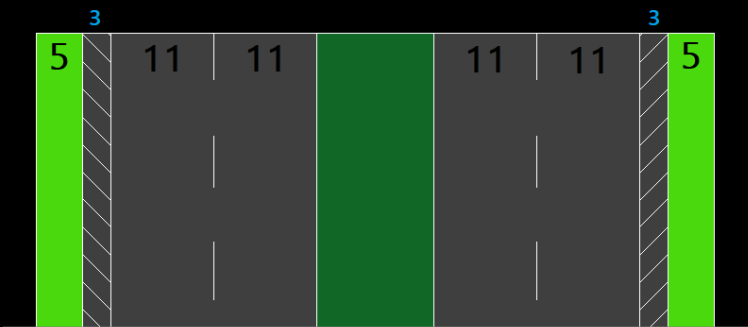
Retrofittability = Width – (# Lanes X Context Class Allowable Lane Width)

$$R = W - (L * Ac)$$

Before



After



**Scenario:**  
2 Bike Lanes Can  
Be Protected w/  
3-Foot Buffers



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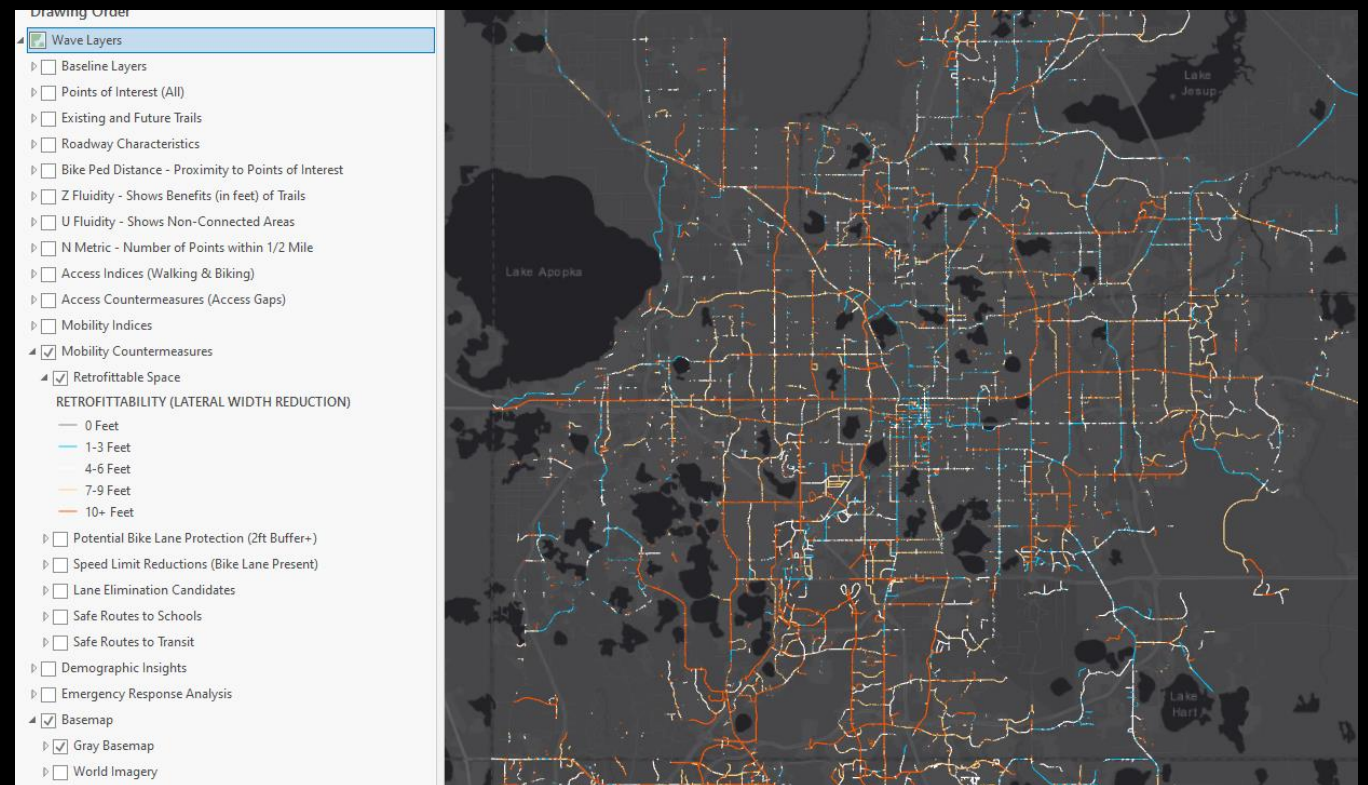
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## Protectable Bike Lanes Using Context Classification

\*Repave and Restripe

ALL ROADS IN THE METRO AREA ARE MEASURED FOR RETROFITABILITY VIA THE ALGORITHM



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Protectable Bike Lanes

Using Context Classification

\*Repave and Restripe

**Speed Limit Reductions Where  
Bike Lanes are Present** (40mph+)

\*Stratified data = 1 line of code

Travel Lane Removal Candidates  
(AADT < 20,000 and 4 Lanes)

\*Subject to future travel demand

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Using Context Classification

\*Repave and Restripe

Speed Limit Reductions Where

Bike Lanes are Present (40mph+)

**Travel Lane Removal Candidates  
(AADT < 20,000 and 4 Lanes)**

\*Subject to future travel demand

\*Using FDOT Criteria

\*Instant identification of roadways meeting criteria

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Census  
Tract ID

Census  
Block ID

TAZ  
Block ID

Median  
Family  
Income

Persons  
Per Acre

Persons  
Per Acre  
2045

% Zero  
Vehicle  
Homes

Jobs  
Per Acre

Census  
XREF

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Low Income

Food Deserts

Low Income

Park Deserts

Low Income

Transit Deserts

Low Vehicle

Ownership

Transit Deserts

## Access x Demographics

Four standard outputs are provided. Users can generate other outputs by querying the Wave database.



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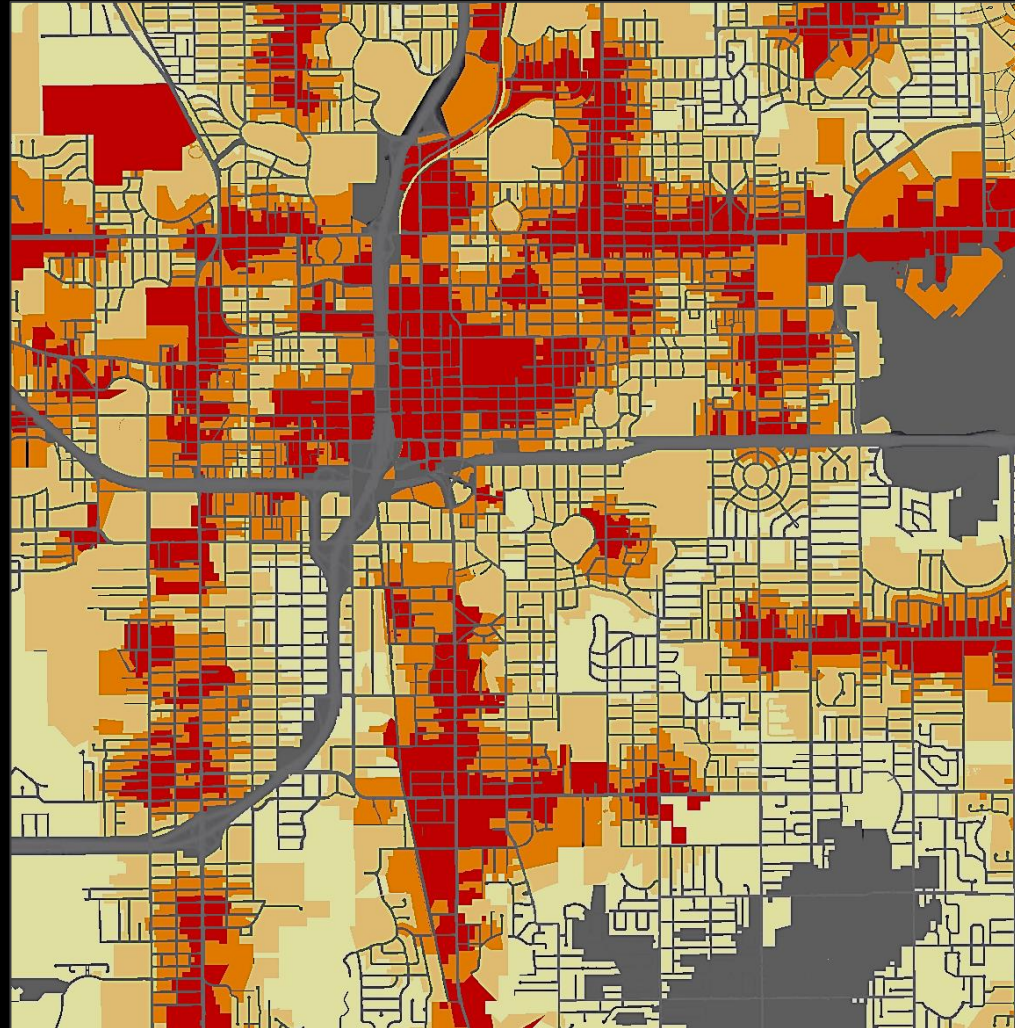
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## Links All Fields to Parcels

Imbeds All Wave Fields

## Includes Parcel ID

Easy Link to Property Appraiser

## Parcel Profiles

Numerous Indicators for Parcels

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### Jade | Parcel Finder

Query the xGeographic  
Wave database parcels:

#### WHERE

Build Year = 0

AADT > 20,000

Parcel Size > 8 Acres

No Grocery Stores within 1 Mile

Area Median Family Income > 80,000

Food Desert Score > 0



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Proximity Metrics

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### Jade | Parcel Finder

Query the xGeographic  
Wave database parcels:

#### WHERE ALL CRITERIA MET

**Build Year = 0**

**AADT > 20,000**

**Parcel Size > 8 Acres**

**No Grocery Stores within 1 Mile**


**Area Median Family Income > 80,000**

**Food Desert Score > 0**



## Feature Review

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**PARCEL ANALYTICS**  
**REPORT** | xGeographic

### Parcel Overview

County Parcel ID <sup>1</sup>	0320315010E000040
Current Owner <sup>1</sup>	Piloian, John
Address <sup>1</sup>	Lake Mary Boulevard
Address (2) <sup>1</sup>	Sanford, FL
Address (3) <sup>1</sup>	32773
Municipality <sup>1</sup>	Seminole County
Year Built <sup>1</sup>	Not Built
Buildings on Site <sup>1</sup>	0
Size (Acres) <sup>1</sup>	5.004

### Valuation




Land Value <sup>1</sup>	\$149,193
Building Value <sup>1</sup>	\$0
Assessed Value <sup>1</sup>	\$149,193
Taxable Value <sup>1</sup>	\$149,193
Agriculture Exempt <sup>1</sup>	No

### Land Use

Current Zoning <sup>2</sup>	A-1 (Agriculture-1)
Future Land Use <sup>2</sup>	Industrial
Land Use Deviation <sup>3</sup>	Potential for Up-Zone
Potential Zoning(s) <sup>3</sup>	M-1A (Industrial) M-1 (Industrial) M-2 (Industrial)

### Transport Access

Daily Traffic <sup>4</sup>	16,800
Daily Truck Traffic <sup>4</sup>	840
% Truck Traffic <sup>4</sup>	5.00%
Functional Class <sup>4</sup>	Principal Arterial - Other
Context Class <sup>4</sup>	None
Nearest Onramp <sup>3</sup>	4.59 Miles
Nearest Offramp <sup>3</sup>	4.58 Miles
Bike Lane Access <sup>4</sup>	Yes (2, Marked)
Sidewalks <sup>3</sup>	Yes (2)

### Environmental

FEMA Floodplain <sup>5</sup>	None
Storm Surge Zone <sup>5</sup>	None
NOAA High Sea Rise <sup>5</sup>	None

### Demographics


Median Fam. Income <sup>6</sup>	\$54,457
% Zero Vehicle HH <sup>6</sup>	4.42%
Area Pop. Density <sup>7</sup>	0.10 Per Acre
Area Job Density <sup>7</sup>	0.05 Per Acre
2045 Pop. Density <sup>7</sup>	0.40 Per Acre
2015-45 Pop. Increase <sup>7</sup>	0.30 Per Acre

### Proximity and Access

Nearest Bank <sup>3</sup>	> 2 Miles	# Dining Spots Within 1/4 Mile <sup>3</sup>	0
Nearest Bar <sup>3</sup>	1.35 Miles	# Entertainment Within 1/4 Mile <sup>3</sup>	0
Nearest Bar with Food <sup>3</sup>	> 2 Miles	# Grocery Stores Within 1/4 Mile <sup>3</sup>	0
Nearest Bus Stop <sup>3</sup>	0.85 Miles	# Hotels Within 1/4 Mile <sup>3</sup>	0
Nearest Fast Food <sup>3</sup>	0.86 Miles	# Markets Within 1/4 Mile <sup>3</sup>	0
Nearest Fire Station <sup>3</sup>	1.81 Miles	# Parks Within 1/4 Mile <sup>3</sup>	0
Nearest Hotel <sup>3</sup>	> 2 Miles	# Schools Within 1/4 Mile <sup>3</sup>	0
Nearest Hospital <sup>3</sup>	> 2 Miles	# Transit Stops Within 1/4 Mile <sup>3</sup>	0
Nearest Grocery Store <sup>3</sup>	> 2 Miles	Food Access Score <sup>3</sup>	28.89 / 100
Nearest Market/Gas <sup>3</sup>	0.77 Miles	Entertainment Access Score <sup>3</sup>	00.00 / 100
Nearest Park <sup>3</sup>	1.09 Miles	Goods & Services Access Score <sup>3</sup>	08.04 / 100
Nearest Pharmacy <sup>3</sup>	> 2 Miles	Municipal Services Access Score <sup>3</sup>	08.87 / 100
Nearest Police Station <sup>3</sup>	> 2 Miles	Night Life Access Score <sup>3</sup>	00.00 / 100
Nearest Post Office <sup>3</sup>	> 2 Miles	Recreation Access Score <sup>3</sup>	12.80 / 100
Nearest Restaurant <sup>3</sup>	1.99 Miles	Transit Access Score <sup>3</sup>	32.15 / 100
Nearest School (Elem) <sup>3</sup>	> 2 Miles	Located within Food Gap <sup>3</sup>	No
Nearest School (Mid) <sup>3</sup>	> 2 Miles	Access Road Safety Index <sup>3</sup>	42.34 / 100
Nearest School (High) <sup>3</sup>	> 2 Miles		
Nearest SunRail Stop <sup>3</sup>	> 2 Miles		

### Original Data Sources

- Seminole County Property Appraiser's Office (2021)
- xGeographic Wave QA; Municipalities (2021)
- xGeographic Wave Analytics (2021)
- xGeographic Wave QA; FDOT and Municipalities (2020)
- Federal Emergency Management Agency (2021)
- United States Census Bureau ACS (2019)
- Central Florida Regional Planning Model (2015)





# Feature Review

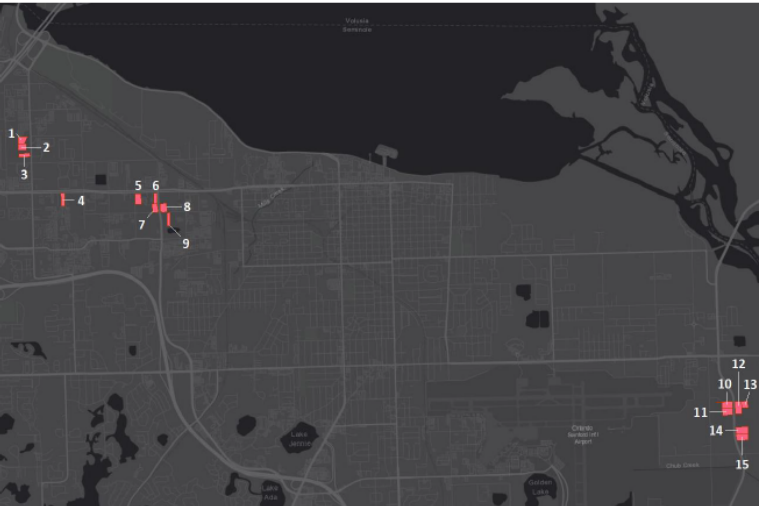
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## JADE PARCEL FINDER REPORT | xGeographic

### Parcel Finder Criteria

County <sup>1</sup>	Seminole
Municipality <sup>1</sup>	Any
Year Built <sup>1</sup>	Not Built
Buildings on Site <sup>1</sup>	0
Size (Acres) <sup>1</sup>	2.00 to 6.00 Acres
Daily Traffic <sup>4</sup>	10,000 or More
FEMA Floodplain <sup>5</sup>	Not Within Floodplain
Current Zoning <sup>2</sup>	Any Agriculture
Future Land Use <sup>2</sup>	Any Industrial
Land Use Deviation <sup>3</sup>	Potential for Up-Zone
Nearest Onramp <sup>3</sup>	Within 5 Miles
Nearest Offramp <sup>3</sup>	Within 5 Miles
Nearest Bus Stop <sup>3</sup>	Within 1 Mile

### Matching Parcels (15 Found)



## JADE PARCEL COMPARISON REPORT | xGeographic

### Parcel Comparison Matrix

Map ID#	Assessed (\$)	Criteria B	Criteria C	Criteria D	Criteria E
1	Populate	Populate	Populate	Populate	Populate
2	Populate	Populate	Populate	Populate	Populate
3	Populate	Populate	Populate	Populate	Populate
4	Populate	Populate	Populate	Populate	Populate
5	Populate	Populate	Populate	Populate	Populate
6	Populate	Populate	Populate	Populate	Populate
7	Populate	Populate	Populate	Populate	Populate
8	Populate	Populate	Populate	Populate	Populate
9	Populate	Populate	Populate	Populate	Populate
10	Populate	Populate	Populate	Populate	Populate
11	Populate	Populate	Populate	Populate	Populate
12	Populate	Populate	Populate	Populate	Populate
13	Populate	Populate	Populate	Populate	Populate
14	Populate	Populate	Populate	Populate	Populate
15	Populate	Populate	Populate	Populate	Populate

### Parcel Algorithm Criteria

Criteria	Decision Weight	Decision Method
Assessed (\$)	XX%	Rank-Order (N-X)/N
Criteria B	XX%	Rank-Order (N-X)/N
Criteria C	XX%	Min/Max (0-1 Scale)
Criteria D	XX%	Met/Not Met (0, 1)
Criteria E	XX%	Met/Not Met (0, 1)

### Parcel Ranking (Top 8)

Map ID	Parcel Score (out of 100)	Address
11	XX.XX	Populate
13	XX.XX	Populate
7	XX.XX	Populate
6	XX.XX	Populate
1	XX.XX	Populate
8	XX.XX	Populate
10	XX.XX	Populate
12	XX.XX	Populate

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Municipal  
Zoning

Municipal  
FLU

EPA  
Brownfields

FEMA  
Flood Zone

Wetlands  
(NWI)

HUD  
Opportunity  
Zones

FDEM  
Surge Zone

NOAA Sea  
Level Rise

Wave  
Fields

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- Roadway Segment GIS File -- Polylines
- Point of Interest GIS File -- Points
- Park GIS File -- Polygons
- Smart Parcel GIS Files (3) – Polygons
- Smart Stop GIS File -- Points
- Trails and Paths GIS File -- Polylines
- Barrier GIS Files (4) -- Polygons
- Pre-Symbolized ArcGIS Pro Project & MXD
- **Toolsets** – 4 Simulation Tools + Parcel Finder

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## Toolset

### New Trail Simulation

Pictured: New 1-Mile Walk  
Zone Using Trail

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## Toolset

### New Trail Simulation

Pictured: Location of New Trail Placement (White Line)



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## Toolset New Trail Simulation

Pictured: New 1-Mile Walk  
Zone Using Trail

**+ 234** homes within 1 mile of  
park due to new trail

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## Other Features

20 Hours of Technical Services for Annual Subscribers

- Integrate In-House Data with the Wave Database
- Custom Scoring Outputs (POI Types, Weights)
- 3 New Trail/Path Simulations (Impact on Access)
- MetroPlan PPL Integration
- MetroPlan TIP Integration
- Regional Trail Status Layer
- SmartStops



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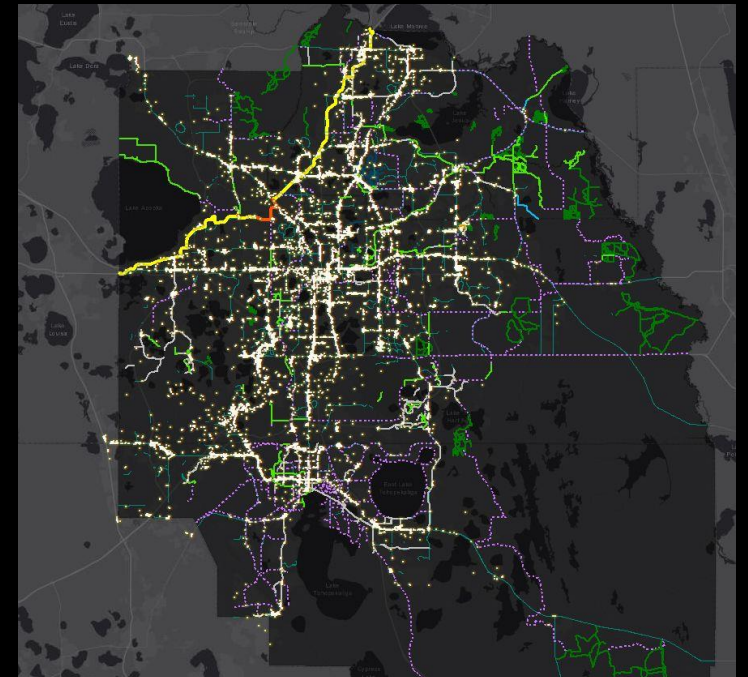
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- **Regional Trail Status Layer**
- SmartStops



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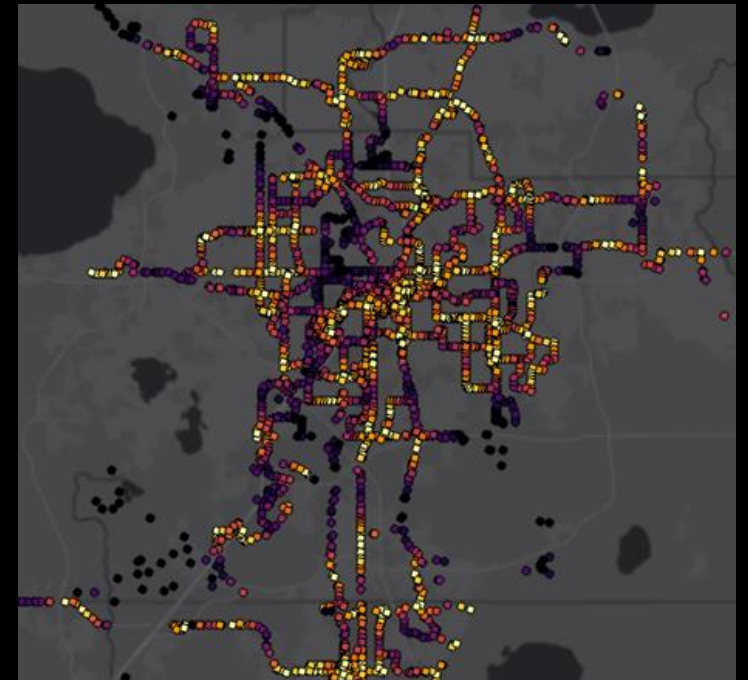
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- MetroPlan TIP Integration
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- **SmartStops (LYNX)**



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### xGeographic Wave

xGeographic Wave software is now available for licensing.



### Data Licensing

xGeographic Wave is provided on an annual license basis. The database and maps are sent to you, ready for use on globally-adopted mapping formats. Please review the Licensing Packet and fill out the form below. Our team will get back to you shortly.

Click to View the Licensing Packet for More Information Following the Official Product Release on 1/30/2021

First Name *	Last Name *
<input type="text"/>	<input type="text"/>
Email Address *	Organization Name *
<input type="text"/>	<input type="text"/>
Please choose one of the two options below. *	
<input type="radio"/> I would like to license the Orlando Metropolitan Area database.	
<input type="radio"/> I would like to expand the database to another metropolitan area.	
<input type="submit" value="Submit"/>	





[xgeographic.com/wave](http://xgeographic.com/wave)