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Regionally Integrated GIS Data |

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

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

Usable in ArcGIS | 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

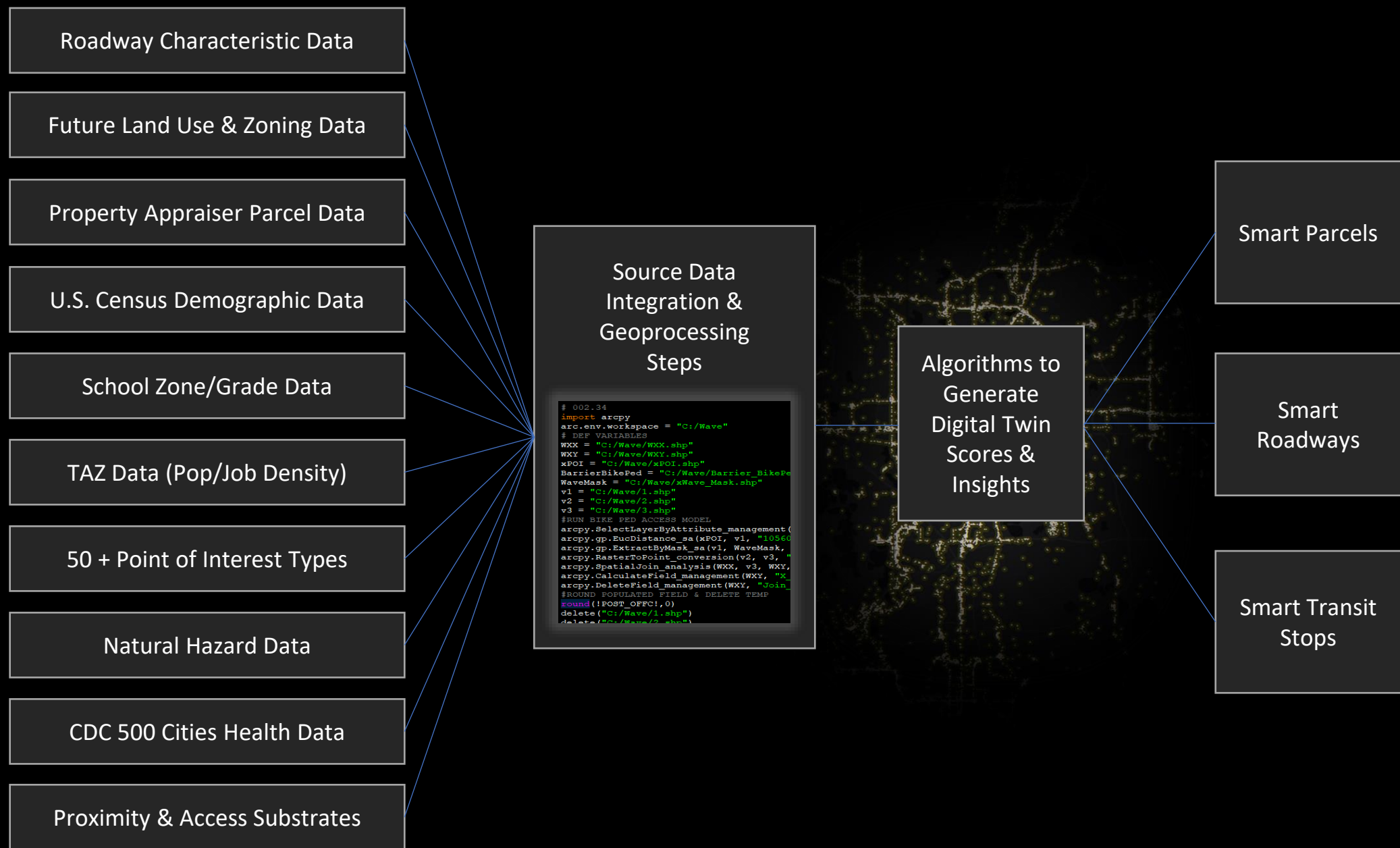
No artificial data boundaries between cities.

Universal & Elastic End Products

Benchmark to municipal standards, etc.

Scalable to Other Regions

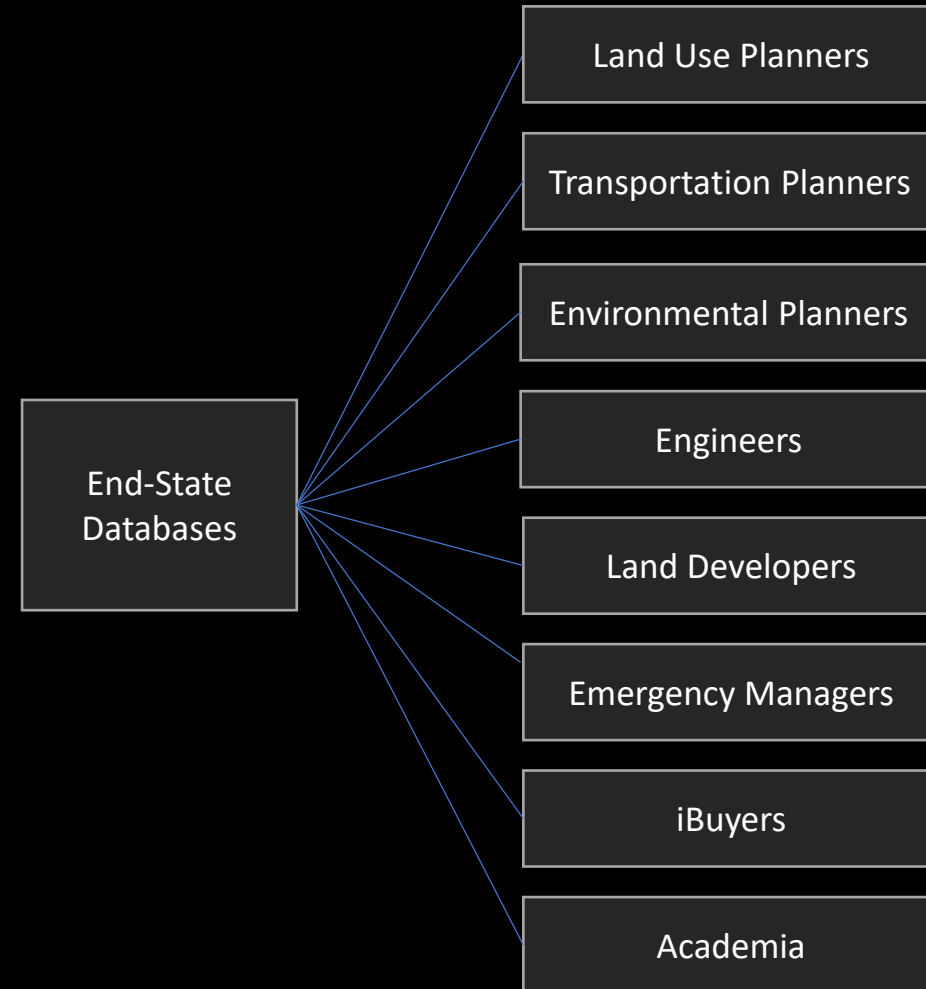
Currently built for Metro Orlando



Regionally Integrated GIS Data | Integrated, scalable geographic databases now built for the Orlando Metro Area.

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

Usable in ArcGIS | 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

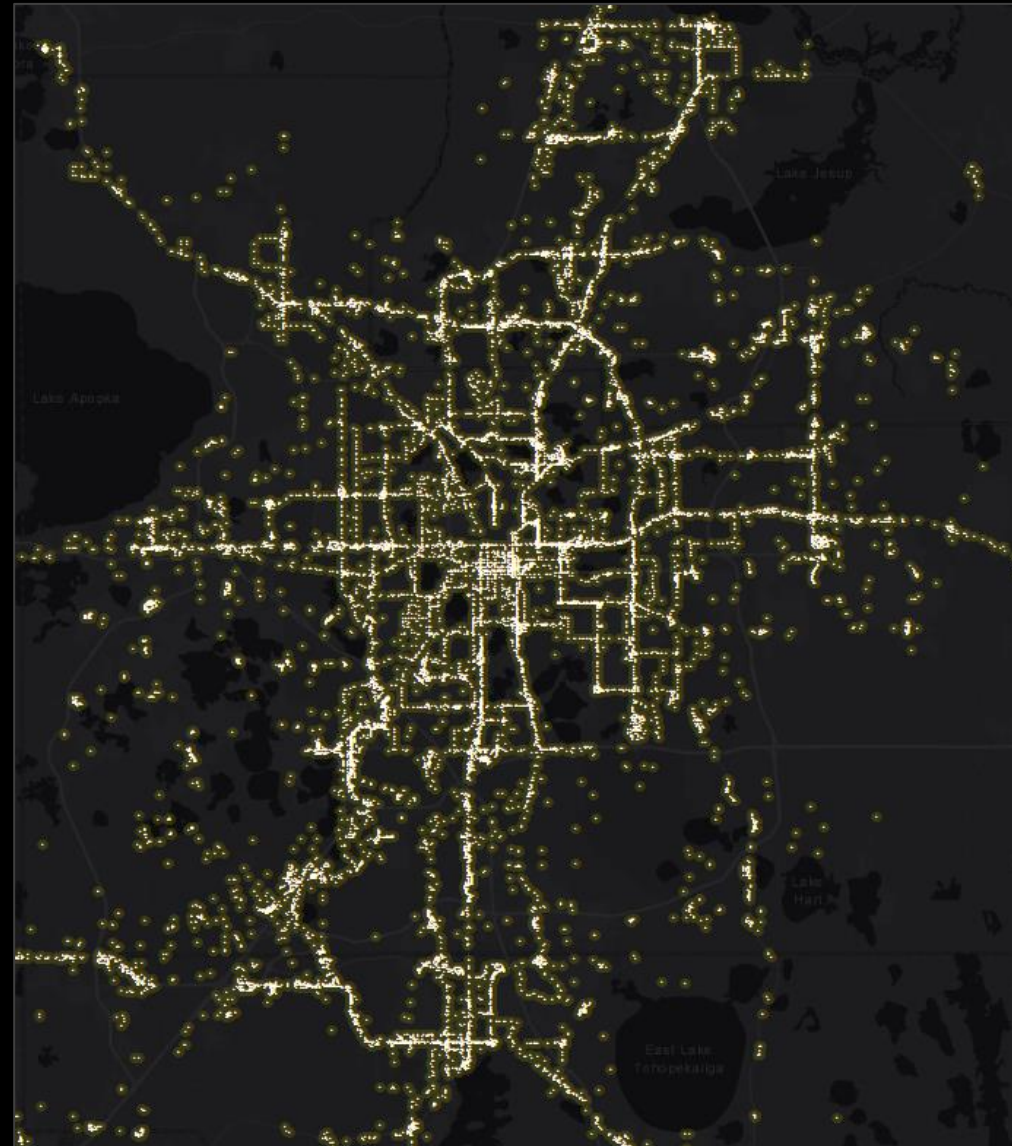
Demographic Insights

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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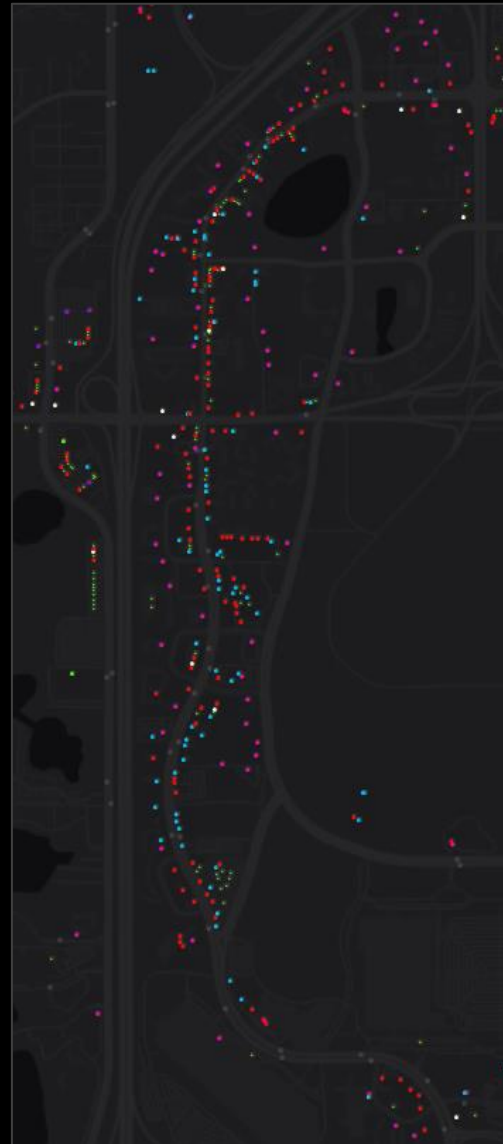
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Auto Parts & Car Wash

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

Feature Review

Point of Interest Data

Transportation Data

Proximity Data

Proximity Metrics

Access Indices

Access Countermeasures

Mobility Indices

Mobility Countermeasures

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Smart Parcels

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+1,300 Parks

Clipped to Water Features

2 Types

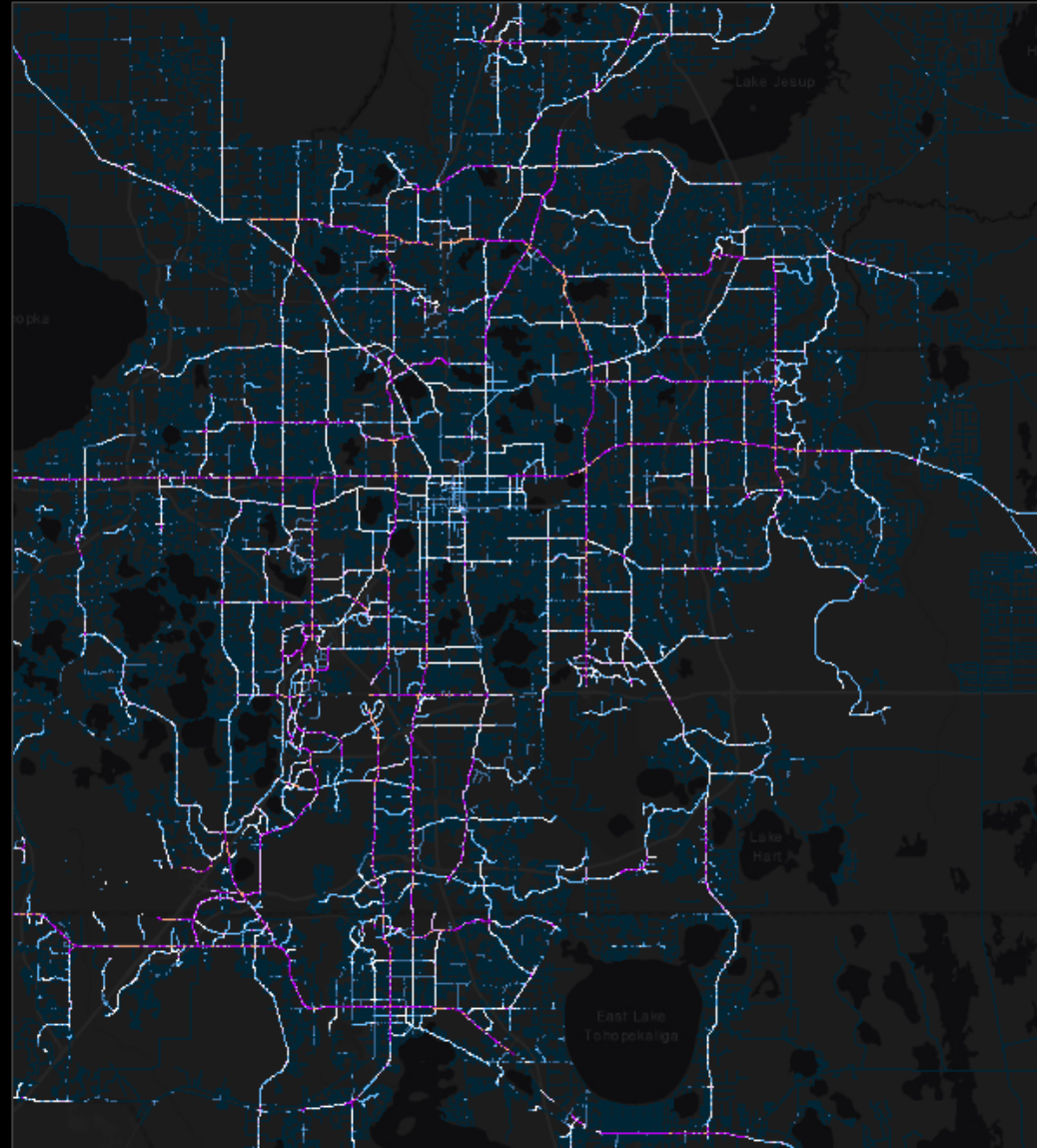
Public & Private

Trails & Paths

10' Minimum Width for Trails

Feature Review

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Transportation Data
Proximity Data
Proximity Metrics
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Access Countermeasures
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Smart Parcels
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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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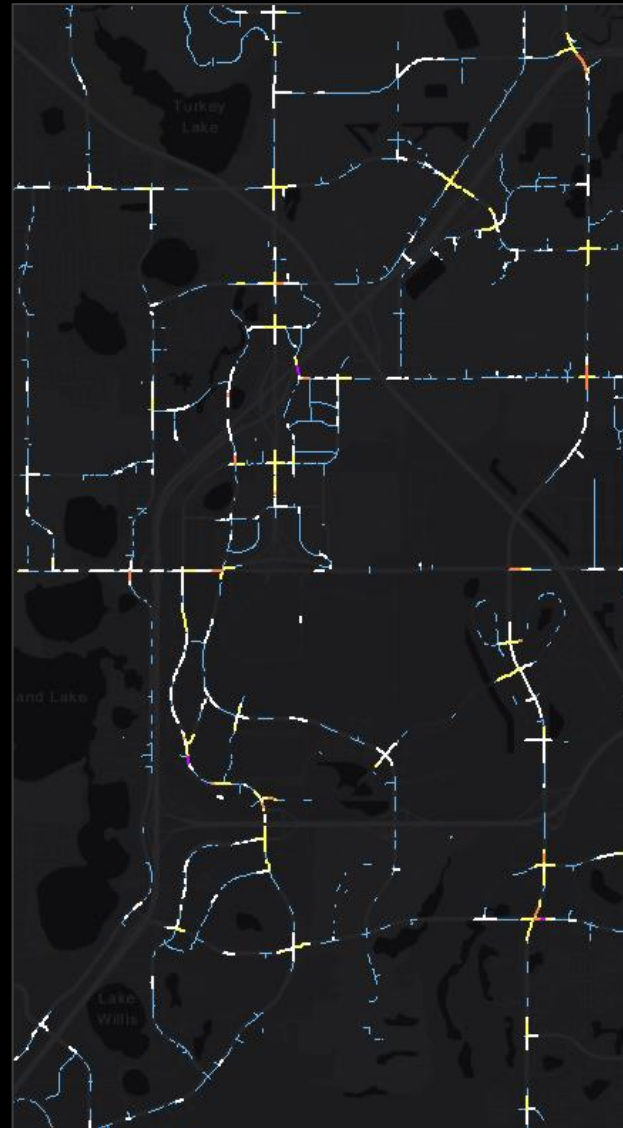
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Speed Limits

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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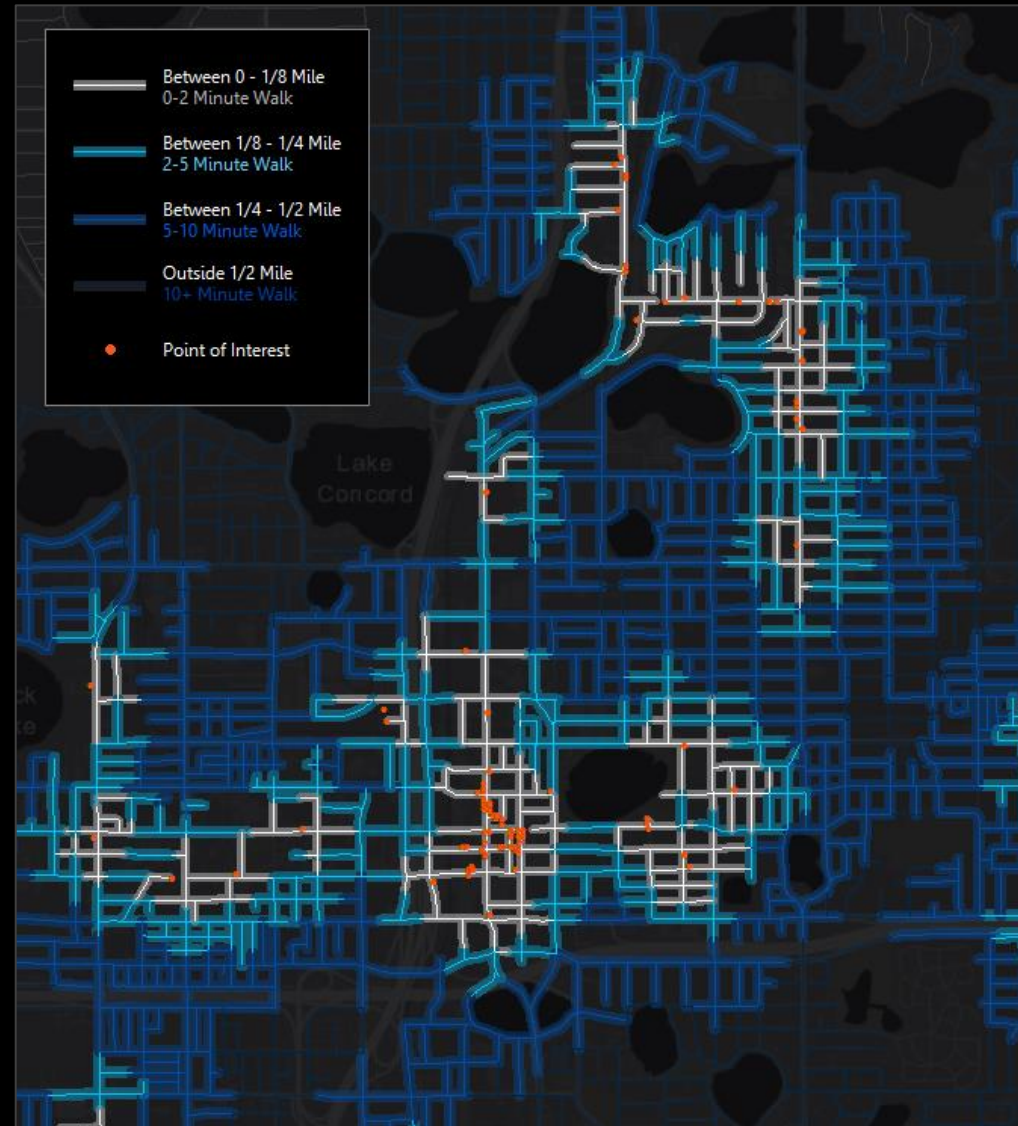
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**Adds Proximity
Data to Roads**

Land Use + Mobility Link

66 Outputs

55 POI + 11 POI "Bundles"

Pre-Formatted

Using Planning Criteria
(2, 5, 10 minute walks)

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

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

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

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Point of Interest Data

Transportation Data

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Access Countermeasures

Mobility Indices

Mobility Countermeasures

Demographic Insights

Smart Parcels

Environment/Land Use Insights

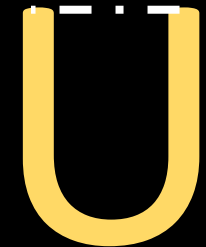
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Website Information



U Fluidity

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



Calculated Relative to 11
Point of Interest "Bundles"

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

Food

Recreation

Goods & Services

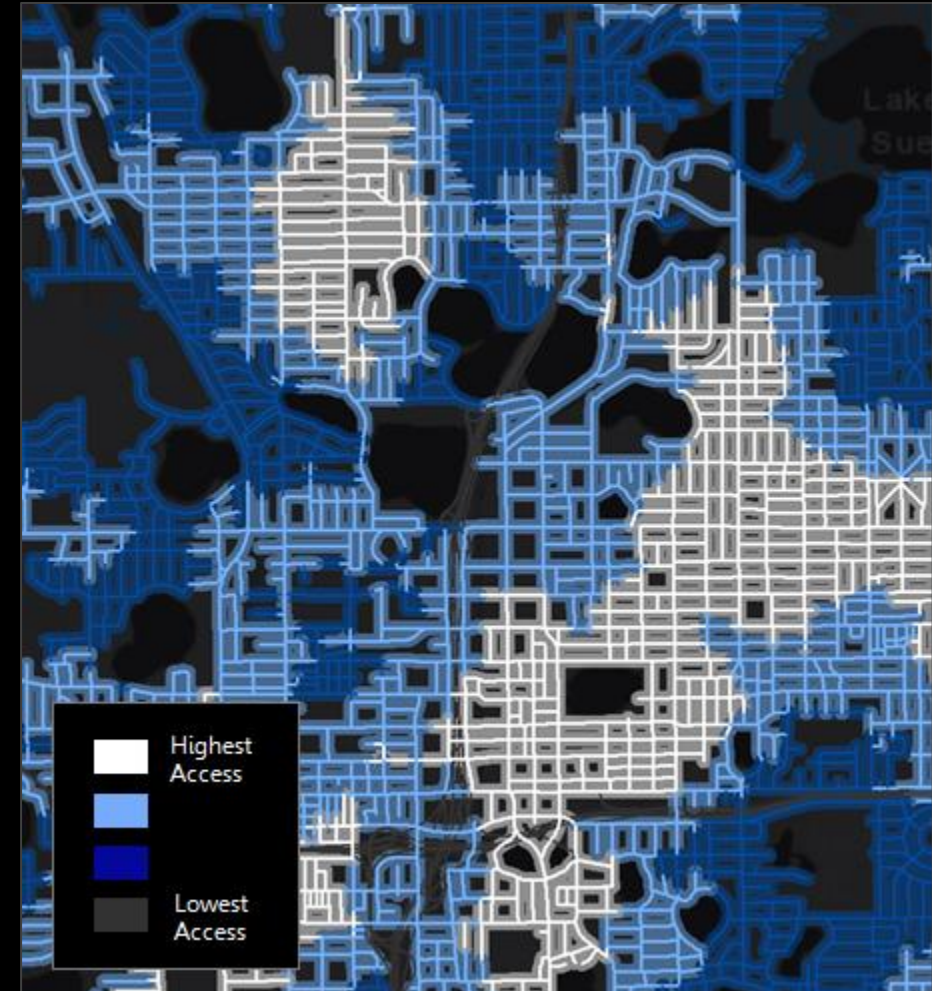
Entertainment

Night Life

Transit

Municipal Services

Custom



Feature Review

Point of Interest Data

Transportation Data

Proximity Data

Proximity Metrics

Access Indices

Access Countermeasures

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Mobility Countermeasures

Demographic Insights

Smart Parcels

Environment/Land Use Insights

Wave Suite +

Website Information

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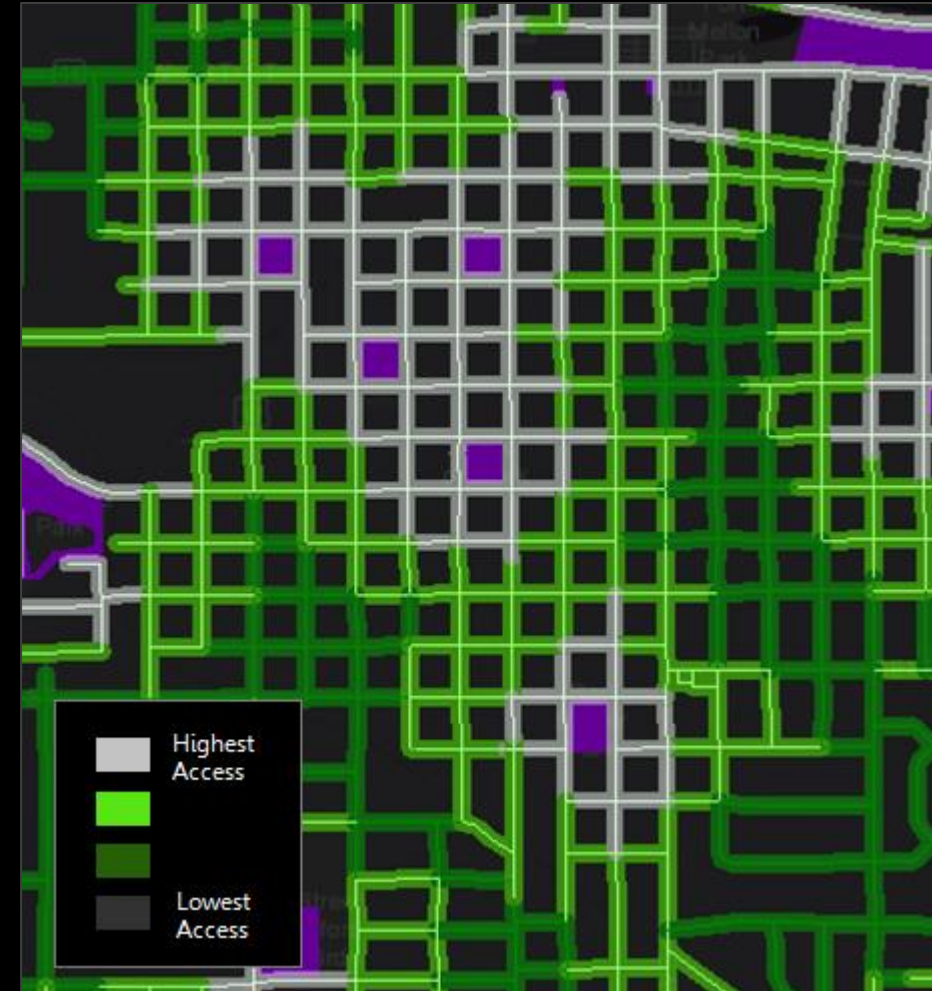
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Feature Review

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

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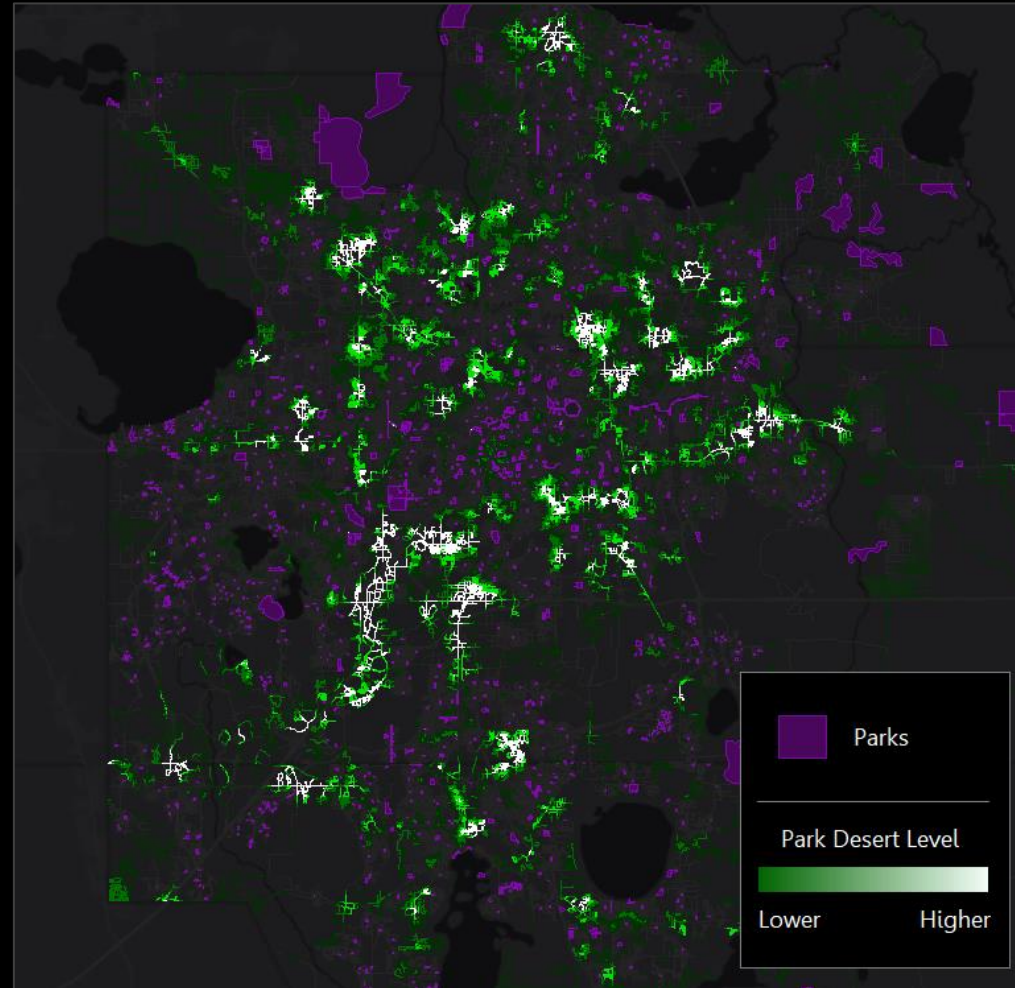
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Feature Review

Point of Interest Data
Transportation Data
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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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Point of Interest Data

Transportation Data

Proximity Data

Proximity Metrics

Access Indices

Access Countermeasures

Mobility Indices

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Demographic Insights

Smart Parcels

Environment/Land Use Insights

Wave Suite +

Website Information



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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Proximity Data

Proximity Metrics

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Access Countermeasures

Mobility Indices

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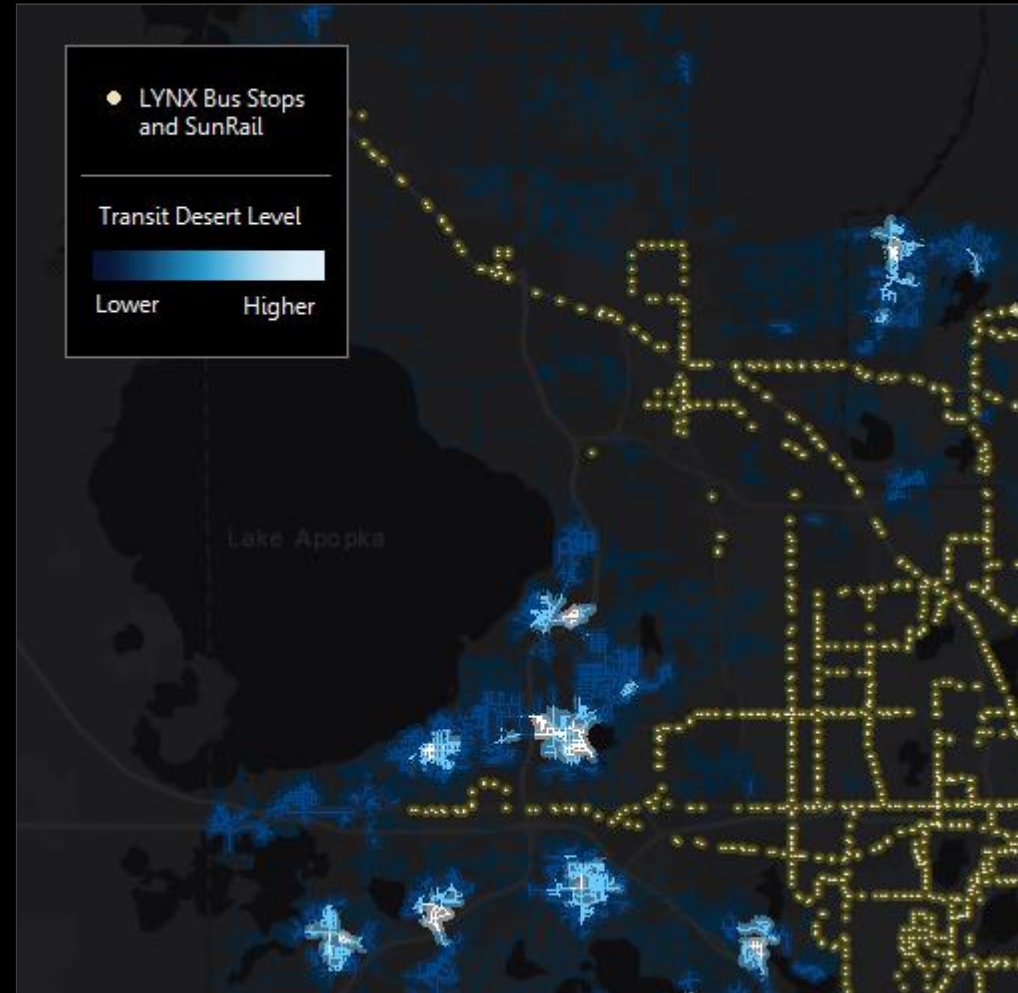
Demographic Insights

Smart Parcels

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Wave Suite +

Website Information



Transit Opportunities

Smart Overlay

With 2045 population density
to plan for the long term

Feature Review

Point of Interest Data

Transportation Data

Proximity Data

Proximity Metrics

Access Indices

Access Countermeasures

Mobility Indices

Mobility Countermeasures

Demographic Insights

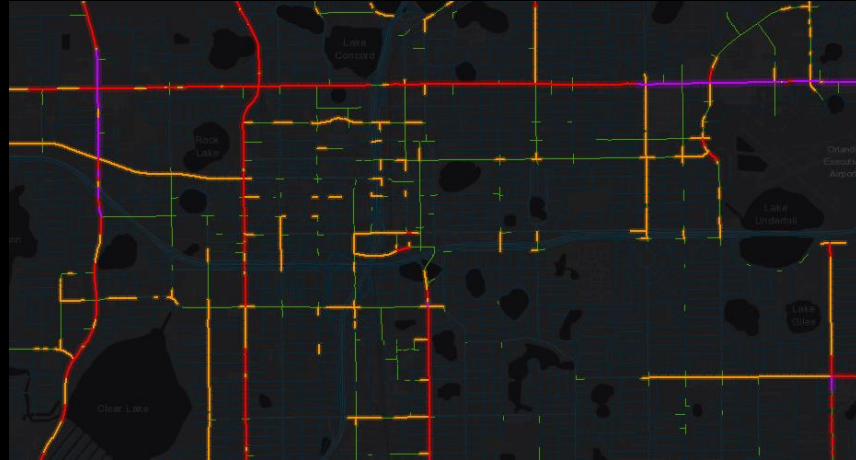
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Environment/Land Use Insights

Wave Suite +

Website Information

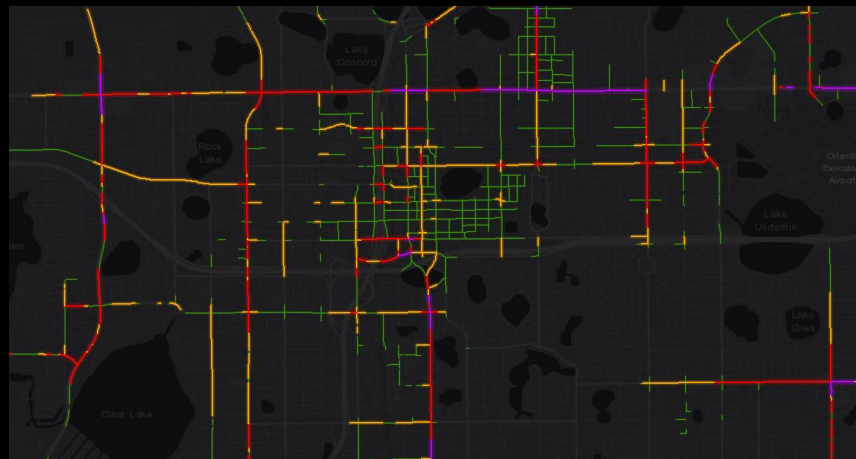
Roadway Feature Risk



Bike/Ped Obstacles

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

Roadway Feature + Location Risk



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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Mobility Countermeasures

Demographic Insights

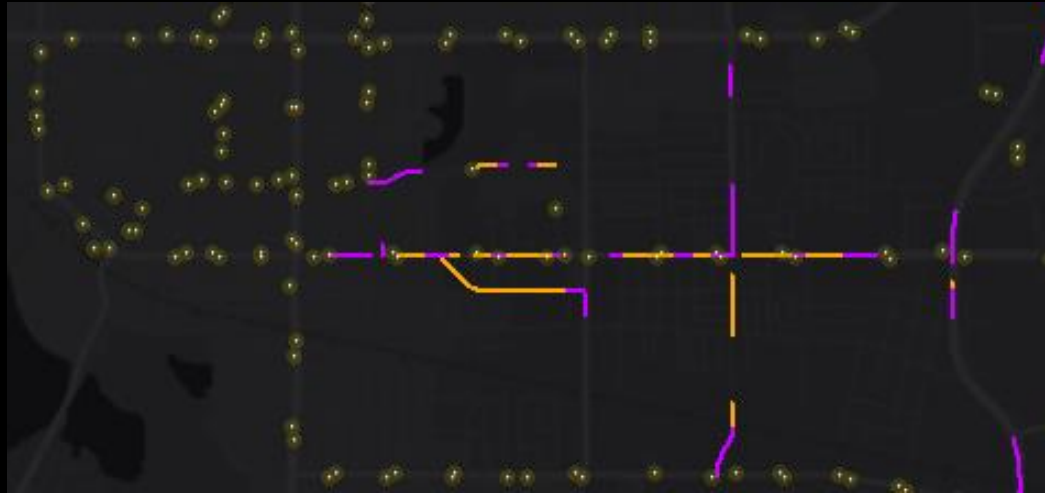
Smart Parcels

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Wave Suite +

Website Information

High-Speed Sidewalk Gaps Near Transit



High-Speed Sidewalk Gaps Near Schools



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

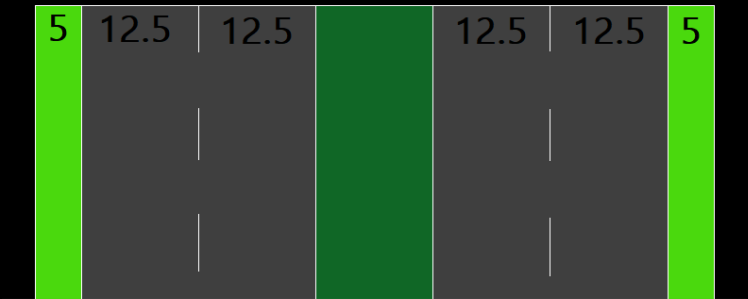
Protectable Bike Lanes Using Context Classification

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

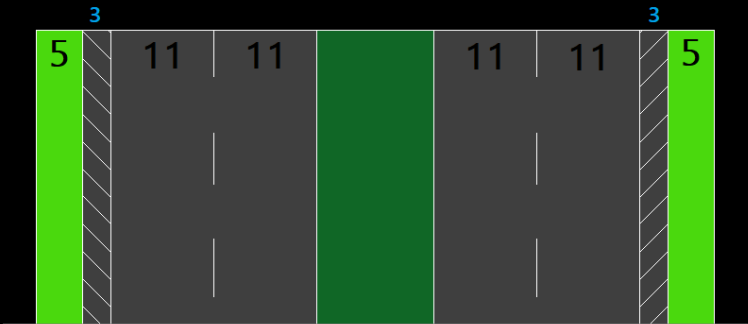
Retrofittability = Width – (# Lanes X Context Class Allowable Lane Width)

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

Before



After



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

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Transportation Data

Proximity Data

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Demographic Insights

Smart Parcels

Environment/Land Use Insights

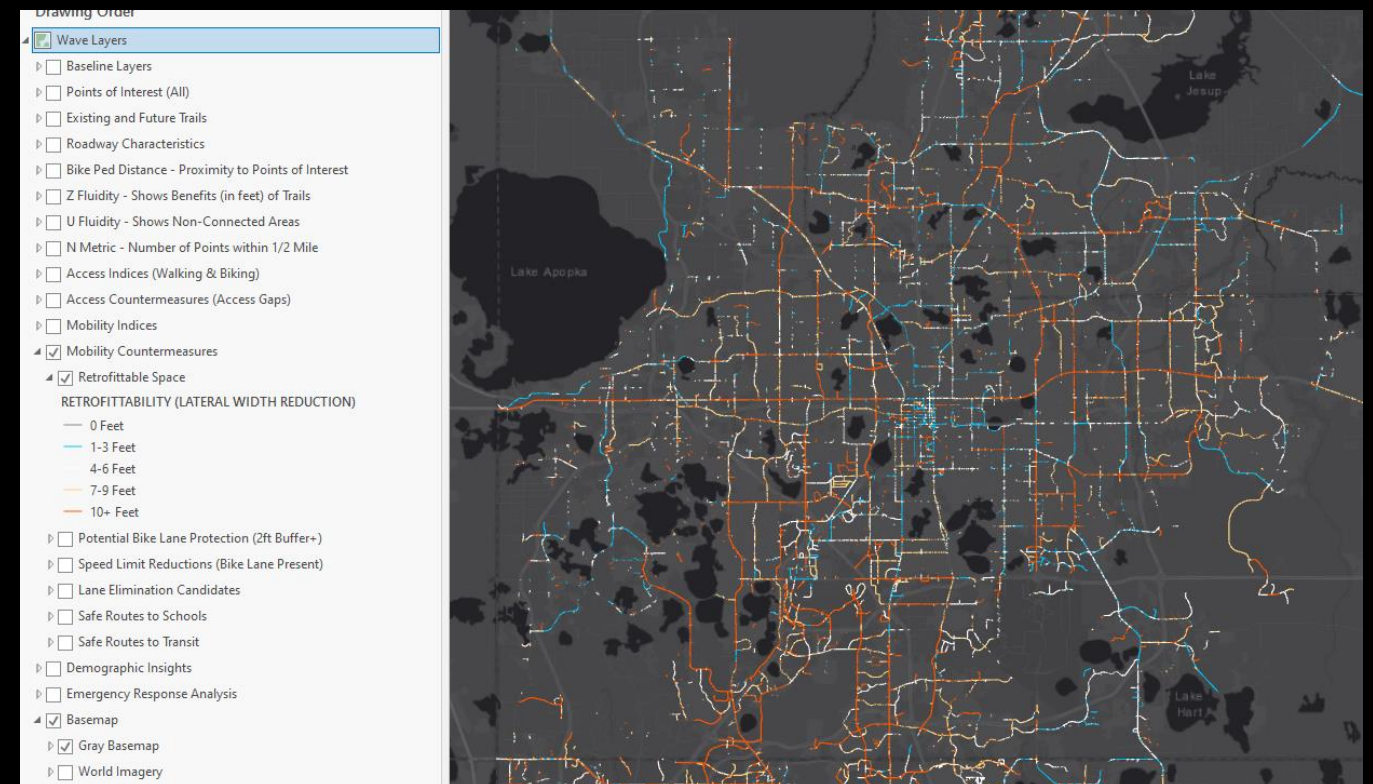
Wave Suite +

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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



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

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

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

Protectable Bike Lanes

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

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

Census
Tract ID

Census
Block ID

TAZ
Block ID

Zip
Codes

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

Median
Family
Income

% Zero
Vehicle
Homes

Median
Age

Travel
Time to
Work

% Fam.
Below
Poverty

School
Zones &
Grades

Travel
Time to
Work

% Using
Transit
to Work

Persons
Per Acre
(2020)

Jobs Per
Acre

Persons
Per Acre
(2045)

Crude
CV Dis.
Rates

Crude
Cancer
Rates

Crude
Obesity
Rates

Crude
Asthma
Rates

Crude
High BP
Rates

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

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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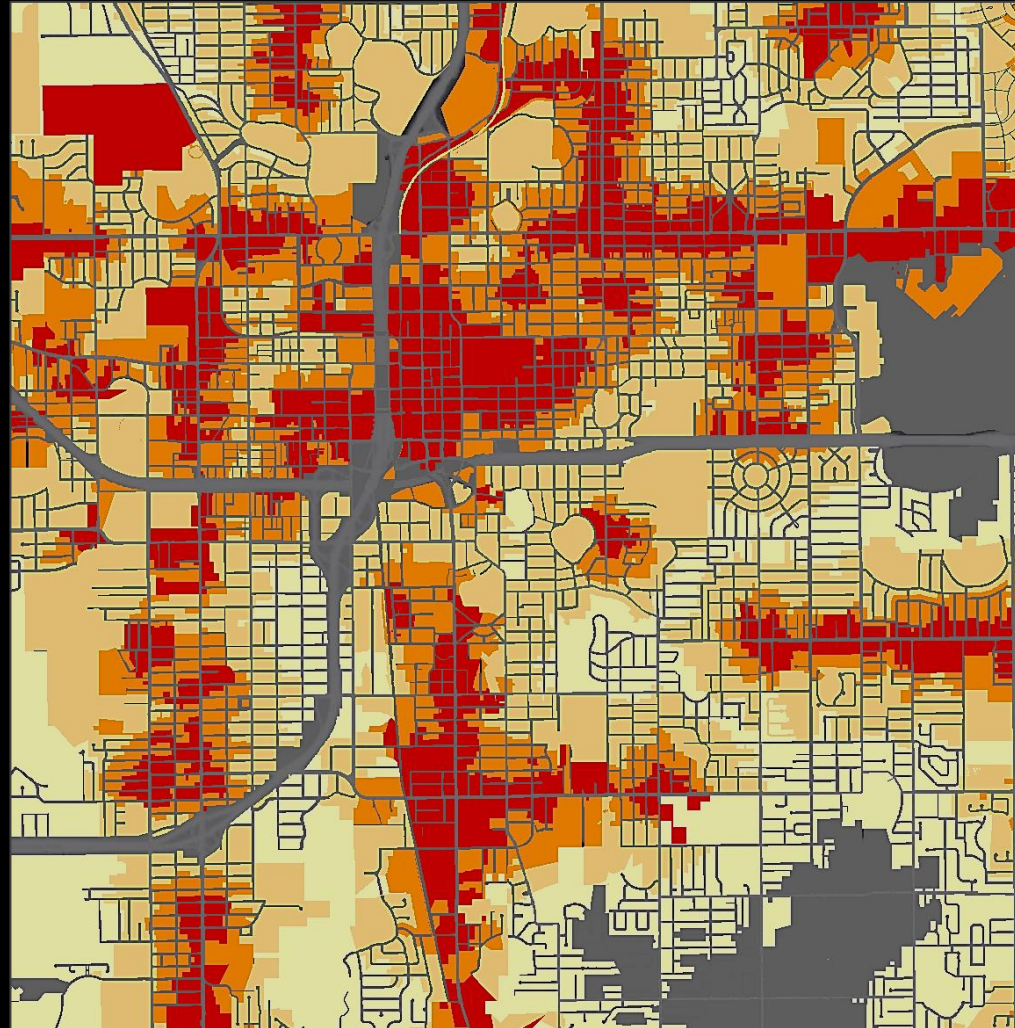
Demographic Insights

Smart Parcels

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Wave Suite +

Website Information



Links All Fields to Parcels

Imbeds All Wave Fields

Includes Parcel ID

Easy Link to Property Appraiser

Parcel Profiles

Numerous Indicators for Parcels

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

Jade | Parcel Finder

Query the xGeographic
Wave database parcels:

SEARCH 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



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

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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

Point of Interest Data
 Transportation Data
 Proximity Data
 Proximity Metrics
 Access Indices
 Access Countermeasures
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 Demographic Insights
 Smart Parcels - Jade
 Environment/Land Use Insights
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 Website Information



PARCEL ANALYTICS REPORT | xGeographic

Parcel Overview

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

Valuation




Land Value ¹	\$149,193
Building Value ¹	\$0
Assessed Value ¹	\$149,193
Taxable Value ¹	\$149,193
Agriculture Exempt ¹	No

Land Use

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

Transport Access

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

Environmental

FEMA Floodplain ⁵	None
Storm Surge Zone ⁵	None
NOAA High Sea Rise ⁵	None

Demographics


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

Proximity and Access

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



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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

Zoning

Future
Land Use

CRA's

FEMA
Flood Zone

Wetlands

HUD
Opportunity
Zones

FDEM
Surge Zone

NOAA Sea
Level Rise

EPA
Brownfields

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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

- 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

Feature Review

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Proximity Data
Proximity Metrics
Access Indices
Access Countermeasures
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Demographic Insights
Smart Parcels
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Website Information



Toolset

New Trail Simulation

Pictured: New 1-Mile Walk
Zone Using Trail

Feature Review

Point of Interest Data
 Transportation Data
 Proximity Data
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 Access Indices
 Access Countermeasures
 Mobility Indices
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 Demographic Insights
 Smart Parcels
 Environment/Land Use Insights
 Wave Suite +
 Website Information



Toolset

New Trail Simulation

Pictured: Location of New Trail Placement (White Line)

Feature Review

Point of Interest Data
Transportation Data
Proximity Data
Proximity Metrics
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Demographic Insights
Smart Parcels
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Wave Suite +
Website Information



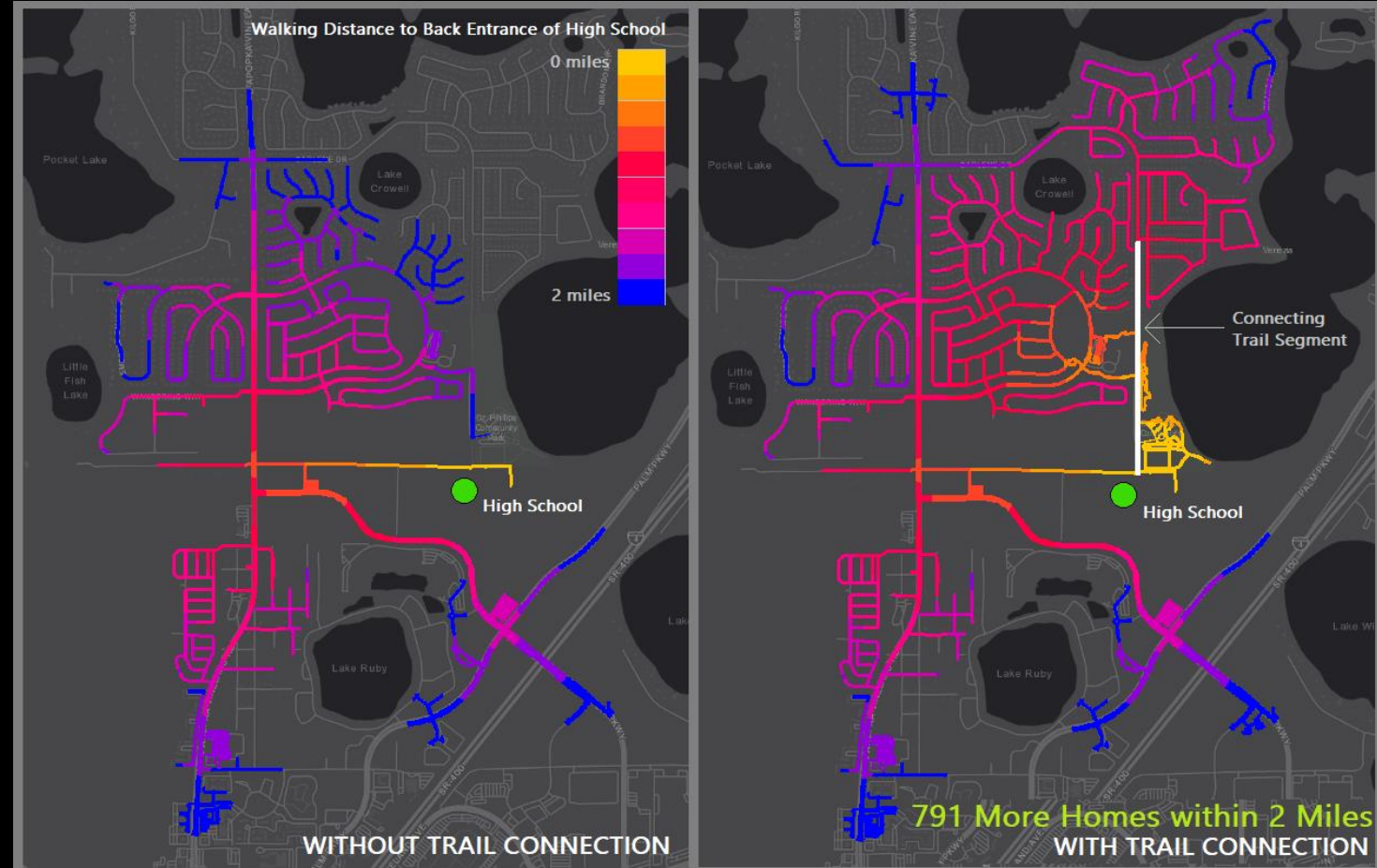
Toolset New Trail Simulation

Pictured: New 1-Mile Walk
Zone Using Trail

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

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



Feature Review

Point of Interest Data

Transportation Data

Proximity Data

Proximity Metrics

Access Indices

Access Countermeasures

Mobility Indices

Mobility Countermeasures

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Smart Parcels

Environment/Land Use Insights

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Website Information

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

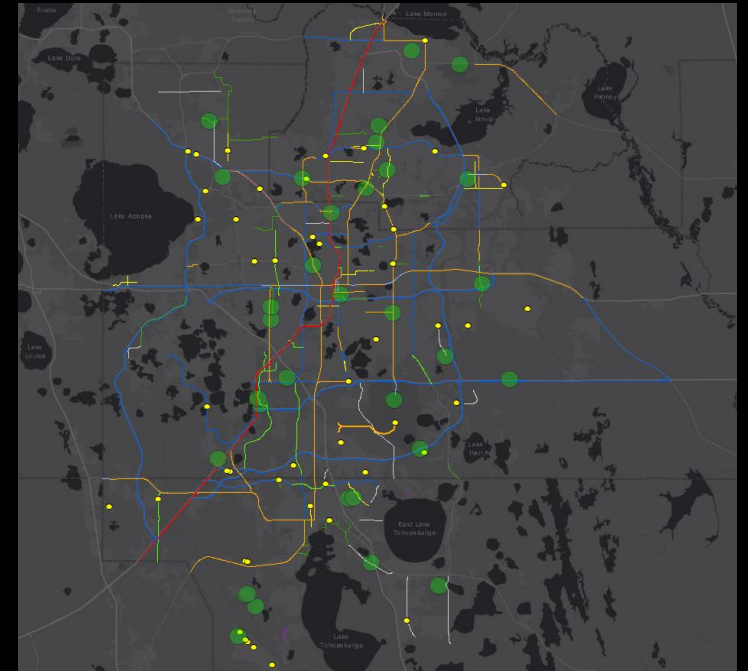
Feature Review

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

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**
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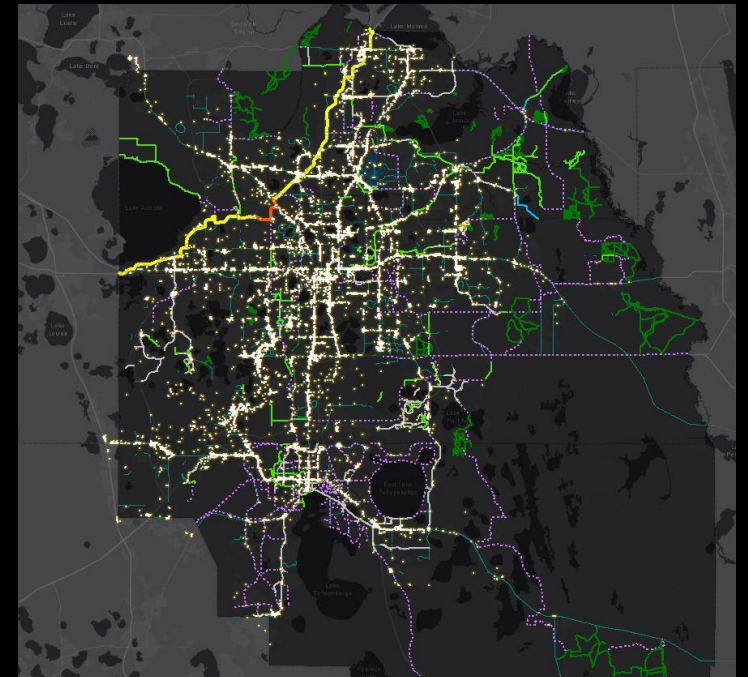
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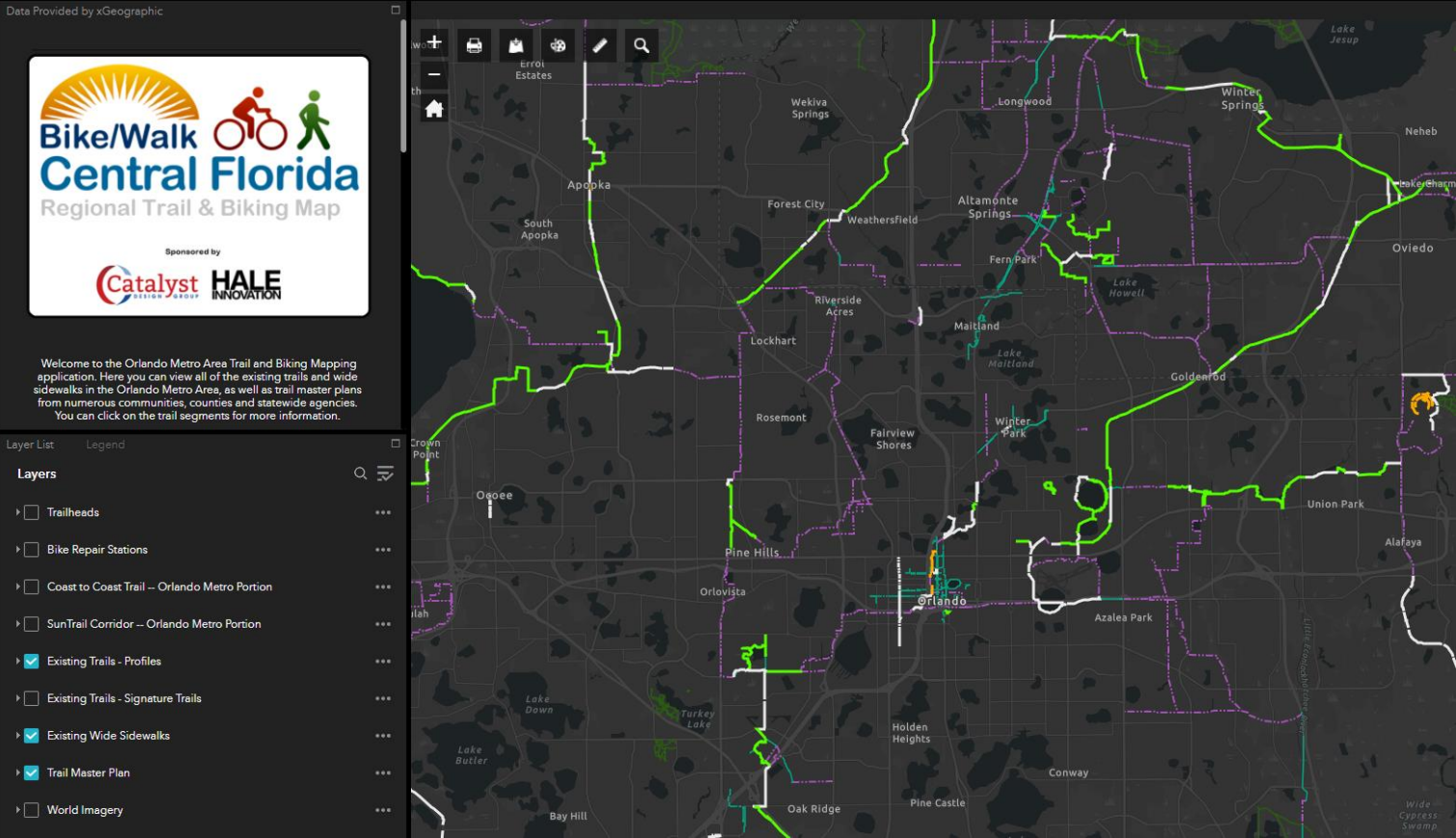


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Regional Trail Mapping Application

Using Wave data, in collaboration with Bike/Walk Central Florida



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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