bentley.com

Bentley Systems

OpensPaths Patterns

Atlanta Regional Commission Model Users Group Meeting

September 5th 2025

Bentley®
Advancing Infrastructure

Agenda

1. Introduction to Bentley Systems

2. OpenPaths Patterns updates in 2025

3. Live demo in Atlanta

4. Q & A
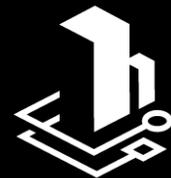
OpenPaths™ Patterns

# We are the infrastructure engineering software company

Together with our users, we are advancing the world's infrastructure for better quality of life.
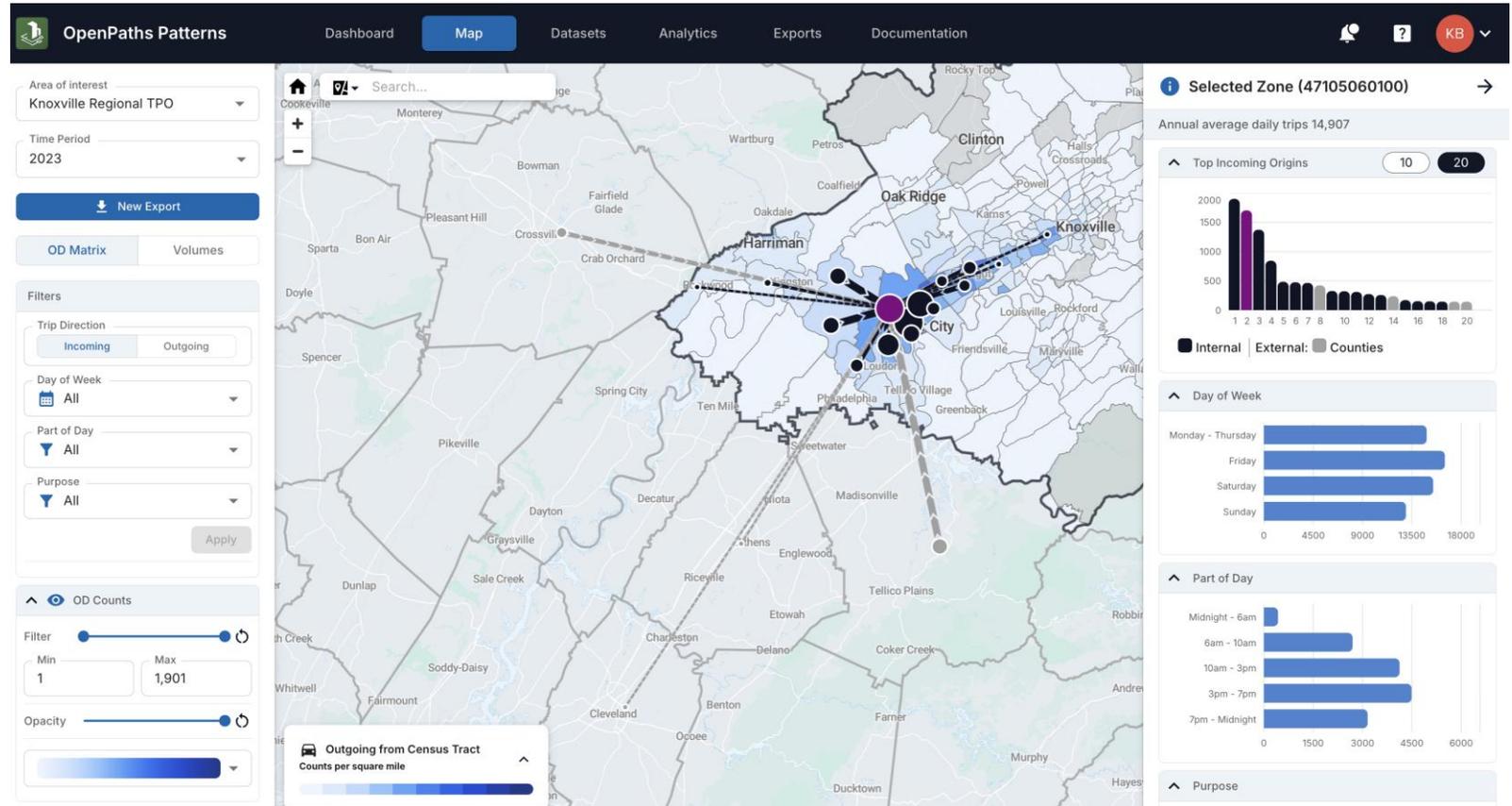
OpenPaths™ Patterns

OpenPaths Suite of Tools

With OpenPaths you can capture a complete representation of mobility, incorporating travel demand at any level of detail from zones to individual persons, tours, and trips, and multimodal traffic on any mode from cars to public transit and beyond to answer questions about the future of mobility.

OpenPaths™ EMME®

OpenPaths™ CUBE™

OpenPaths™ AGENT®

OpenPaths™ DYNAMEQ®

OpenPaths™ CityPhi®
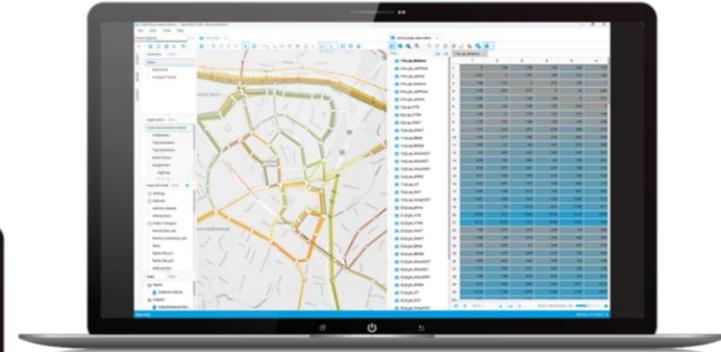
OpenPaths Patterns In Action

1. Custom TAZs for model calibration

2. Custom select-zone analysis

3. Safe Streets for All applications

4. HPMS reporting

5. Commercial inquiries/corridor studies

6. General queries in regional behavior

OpenPaths Patterns Updates - February

OpenPaths Patterns, built by planners for planners. We are glad to incorporate user feedback into our product and welcome your suggestions.

Select Link & Zone
Now enabling select zone analysis without requiring selected road segments to better support site impact analysis and the rapid identification of alternative routes between areas. Improvements to rendering select link results have also been implemented.
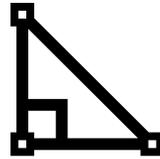
Screenlines
Create and edit screenlines to quickly summarize travel flows through corridors, across entire regions, or in and out of activity centers. Upload your own screenlines to compare directly to your own results.

Pedestrian Volumes (beta)
Pedestrian data includes not only sidewalk volumes, but also intersection volumes along with tools to produce aggregated values for multiple intersections.
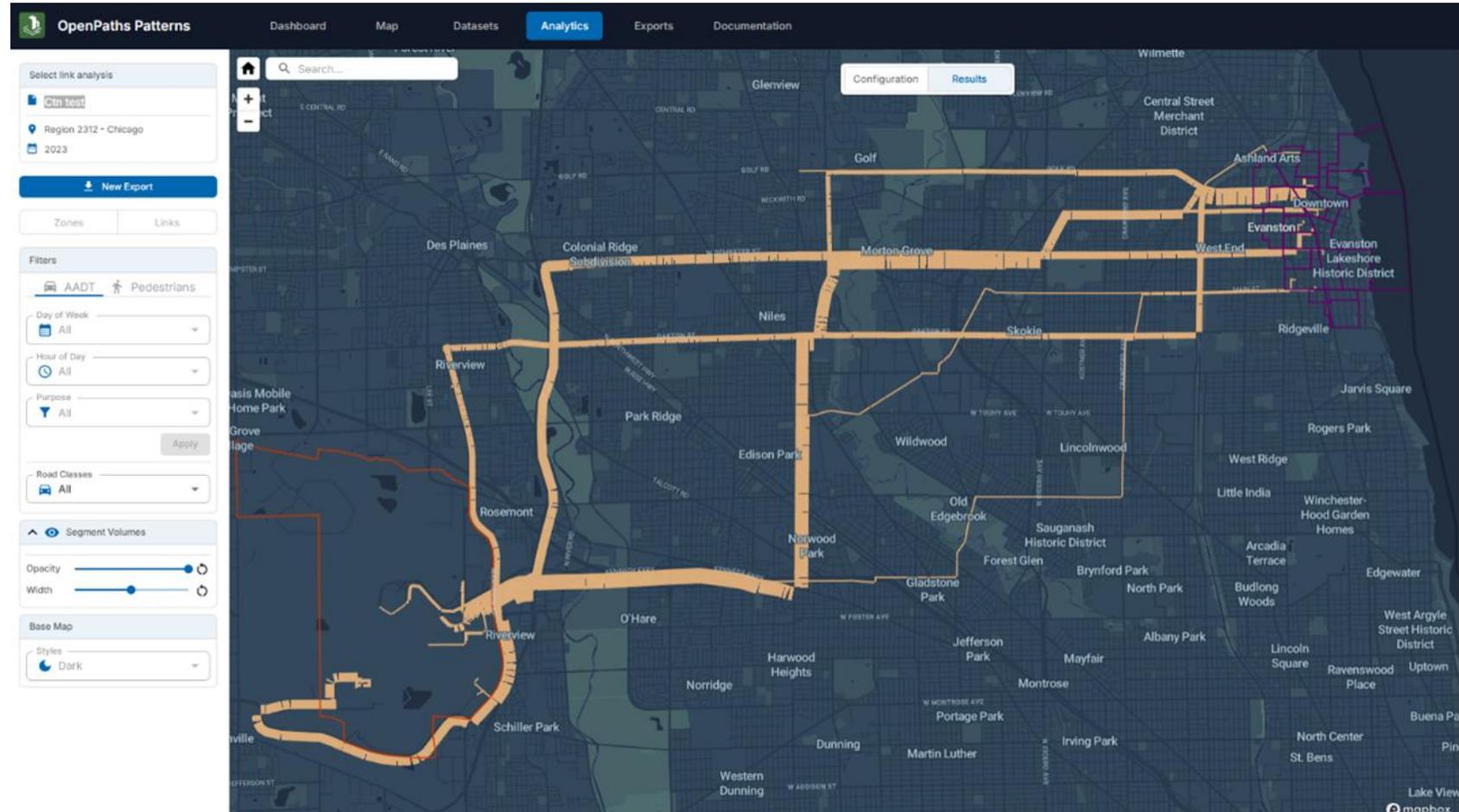
OpenPaths™ Patterns

Select Link & Zone

Select Zone

Select link analysis now enables select zone analysis! This update simplifies:

- Site impact analysis
- Rapid identification of alternative routes
- Cut-through traffic studies

Efficiency

Results compute and render much faster, allowing you to get your work done fast.
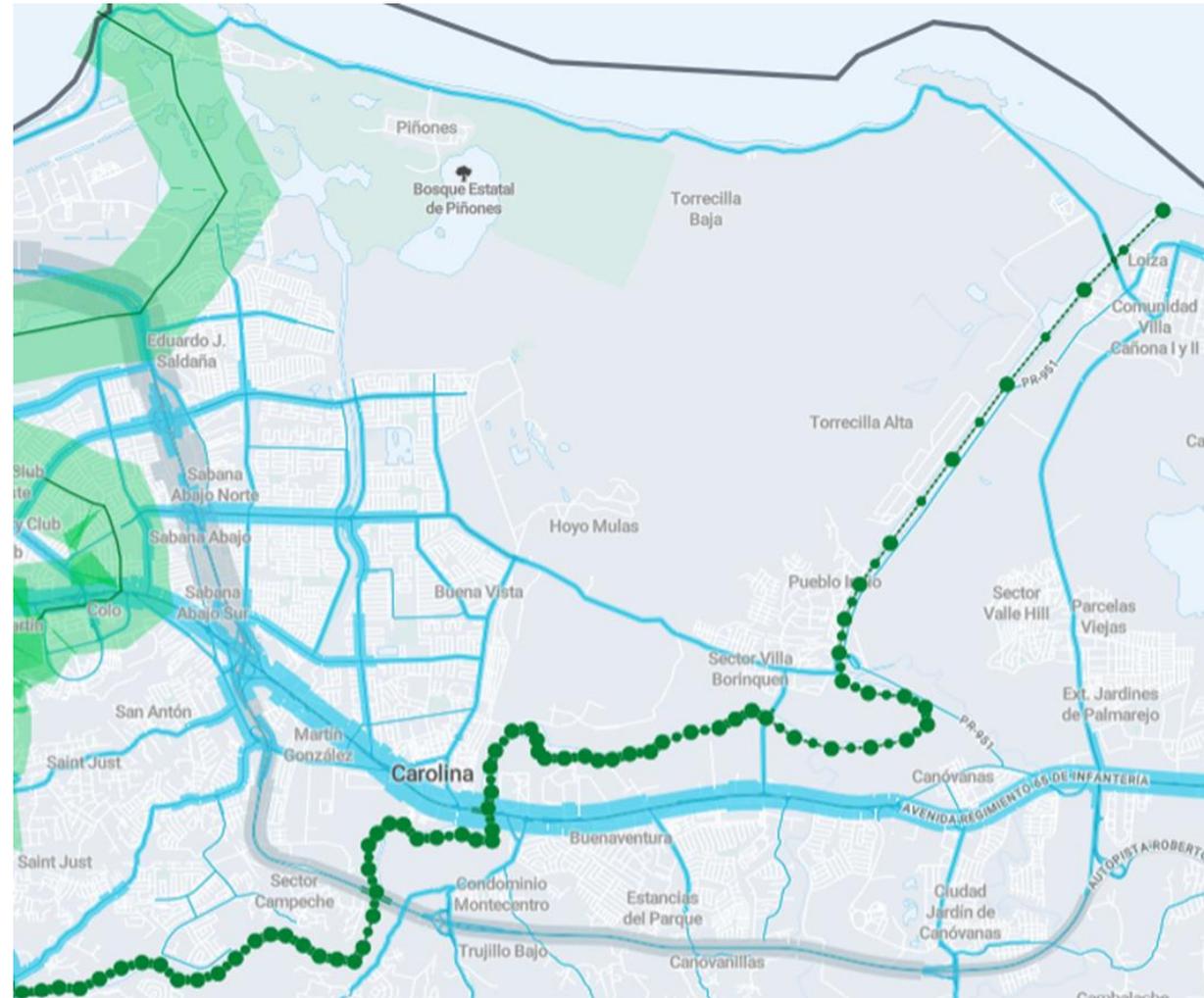
Screenlines

Filters

Apply filters to instantly review volumes and volume distributions for selected day types, hours, trip purposes and road class combinations.

Automated Versioning

Apply screenlines across time periods with guidance to identify network changes over time. If road segments are included in a screenline defined for one time period, but they are not present in the network for another time period

Screenlines →

San Juan Screenlines

✕ Cancel   ✓ Confirm   using all road classes

Editing the geometry of a Screenline

1. To edit a vertex, click on it to select it. You can then move or delete it.

2. To insert a new vertex, single-click on the line to show the midpoints between vertices. Single-click on a midpoint to insert a vertex, then drag it to the desired location.

3. When you're finished, click **"Confirm""** to finalize your changes.
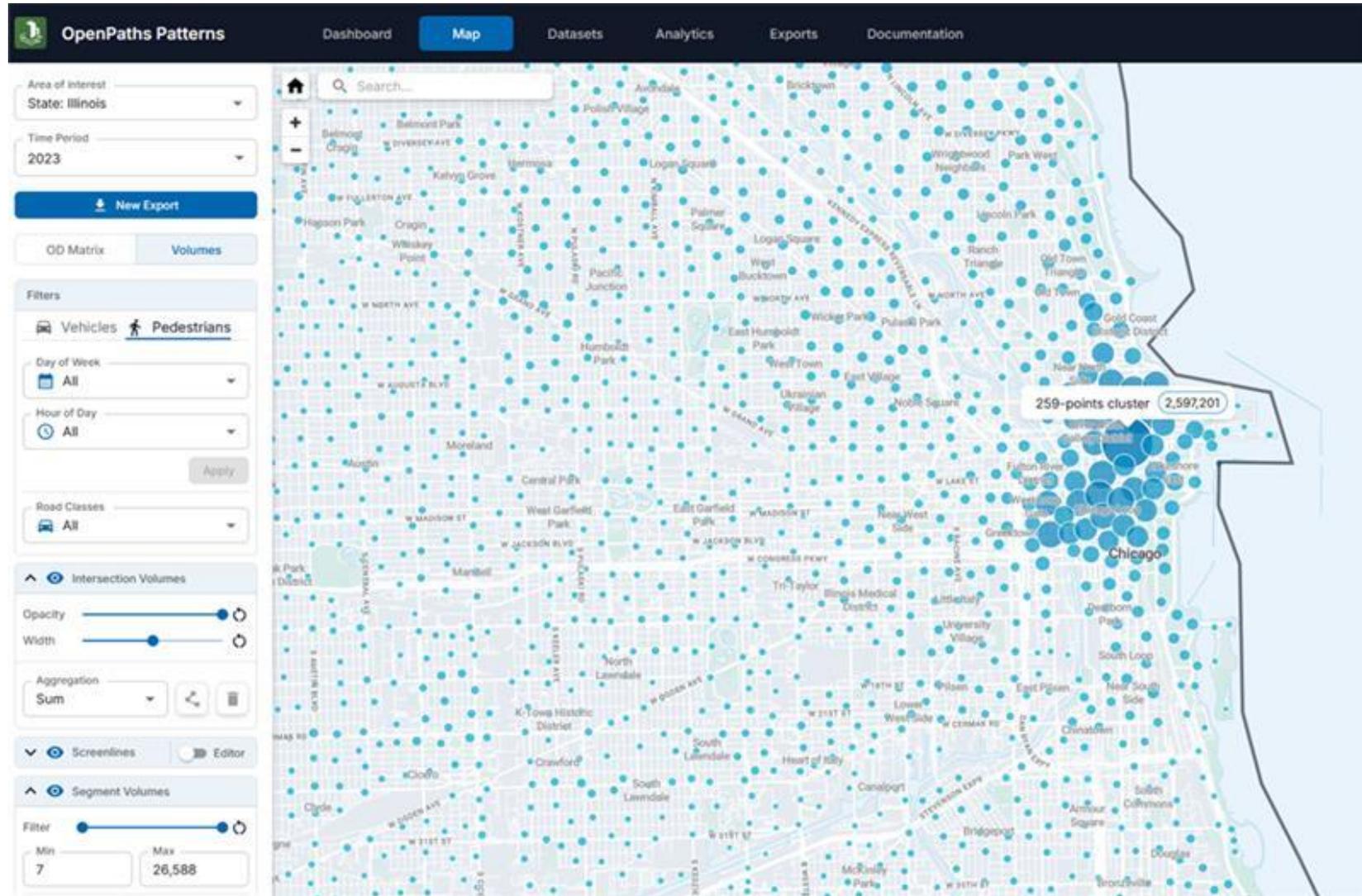
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Pedestrian Volumes

Visual clarity

At lower zoom levels, where intersection level details are too dense to display well, automated clustering combines intersections and their associated volumes, providing a clearer representation of the data.

Navigation

Users can click on a cluster to zoom in and center the map on the cluster area, revealing more spatially detailed clusters. Multiple cluster levels provide increasing spatial detail, where higher zoom levels display individual intersections along with segment volumes.

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OpenPaths Patterns Updates - August

OpenPaths Patterns, built by planners for planners. We are glad to incorporate user feedback into our product and welcome your suggestions.

Map Overlays
Map Overlays enable public GIS feature layers to be displayed within OpenPaths Patterns. Previously only available within the Corridor Discovery feature, Map Overlays are now available in the main maps.

Spatial Bookmarks
Spatial bookmarks now allow users to save and name locations on the map. Bookmarks can be created for multiple areas of interest or optionally filtered to the currently selected area.

Always-on Trials
OpenPaths Patterns now aligns with Bentley accounts. If you have a Bentley account (they're free) you have unlimited trial access to test the features available, utilizing the OpenPaths Patterns demo dataset.

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Spatial Bookmarks & Image Download

Save your view

Return to your favorite view or re-create graphics with the same frame. Spatial bookmarks allow users to save and share important views with each other.

Export your view

Export high-resolution downloads of your view in OpenPaths Patterns. This allows users to take advantage of OpenPaths Patterns visualizations and implement them into presentations, both digitally and physical (poster session).

Easily create bookmarks to save your view

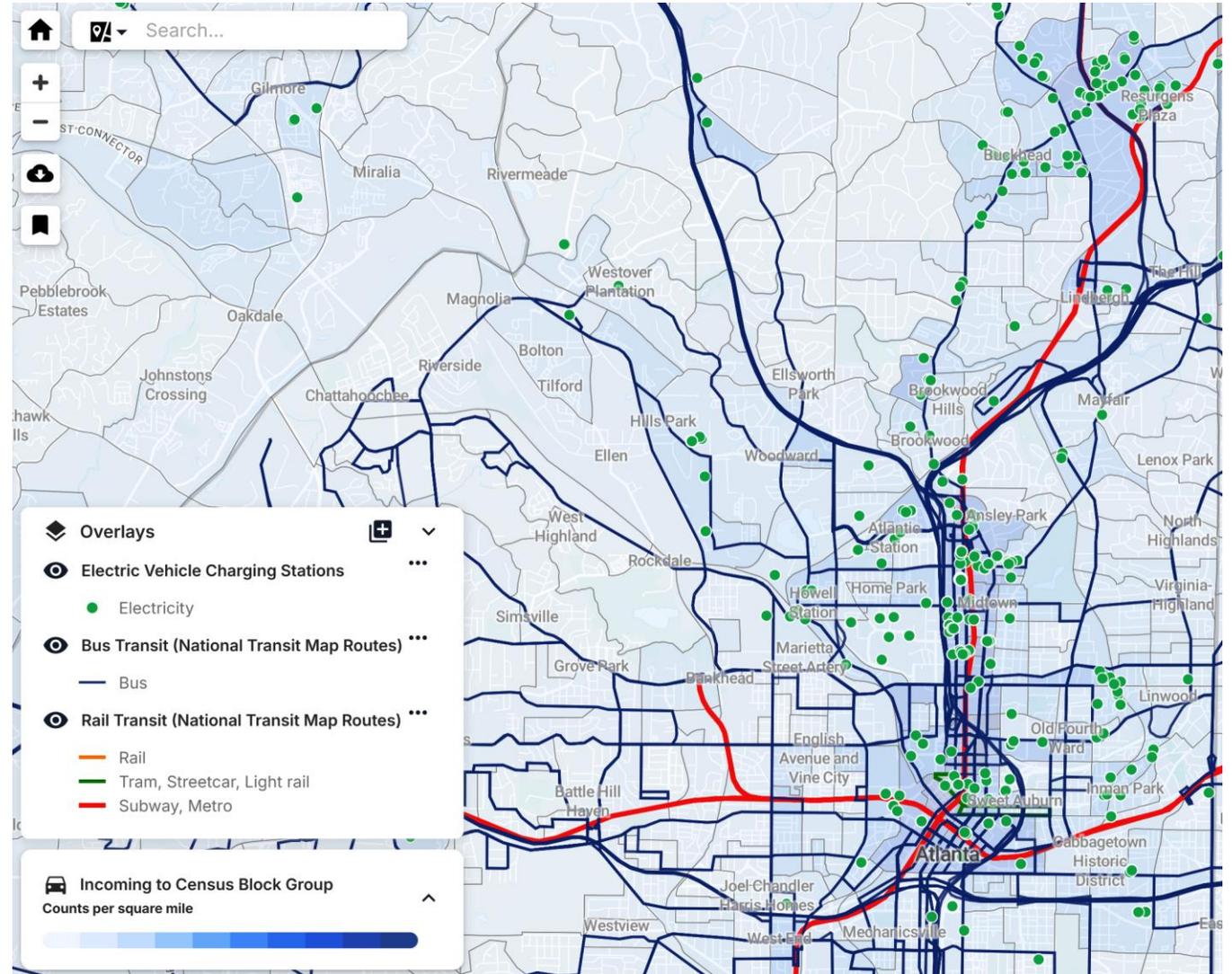Share your bookmarks with your colleagues, or keep them private

Map Overlays

See your own data

Overlays allows users to integrate custom data sources and view them in OpenPaths Patterns. Web-hosted layers can be integrated, adding depth to travel patterns through added context.
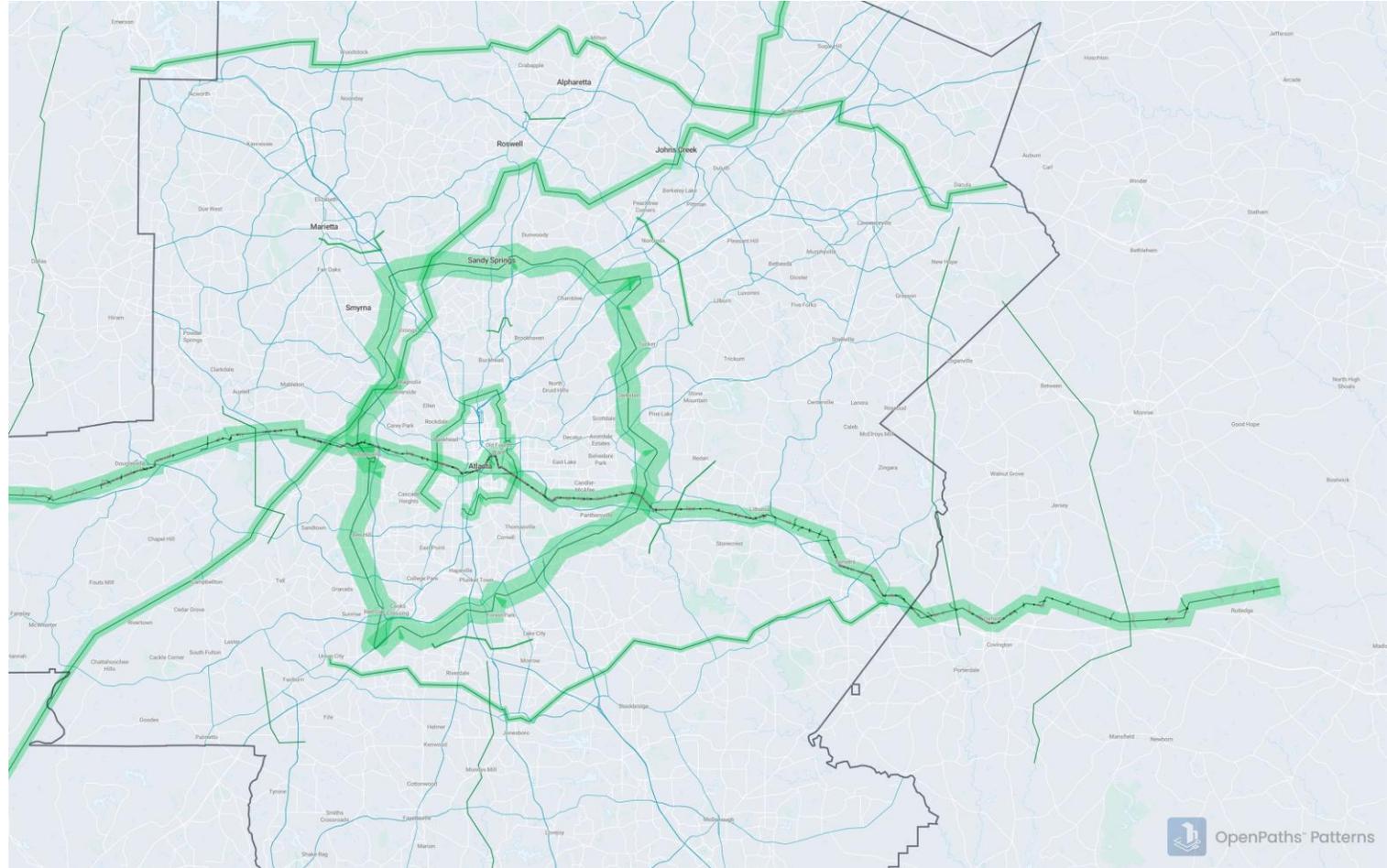
Expanded scope

Previously only available within the Corridor Discovery feature, Map Overlays are now available in the main maps.

Let's Work Together

1. Safe Streets for All (SS4A)

2. Custom TAZs (ARC)

3. Select-zone analysis

4. Electric vehicle site location analysis

Exported map showing screenline results in Atlanta area. Screenlines defined according to ABM definition.
Source: OpenPaths Patterns

OpenPaths™ Patterns

As of July 1ˢᵗ 2025, all users must have an active subscription to continue accessing Patterns data and analytics.

The Patterns team is excited to announce our most user-centric purchasing option to date.

Your Access:

- Data for a single state
- All available data years
- Full, view-only software functionality

Cost: $2,500 annually

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Stay in Touch

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