



SAFE STREETS 4 ALL SOUTH ORANGE VILLAGE



Action Plan Advisory Committee
January 21, 2025

▶ Project Team



Greer Patras

Director of Planning & Zoning



Courtenay Mercer, AICP, PP

Project Manager, Communications &
Plan Development Lead

Michael Baker

I N T E R N A T I O N A L

Alec Lamoreaux

Crash Analysis & Corridor/
Project Recommendations Lead

▶ Introductions

Hello, my name is...



▶ Today's Agenda

- Project Purpose, Work Plan, Schedule
- Preliminary Public Engagement Results
- Initial Crash Analysis
 - Discussion: Corridor Prioritization
- Policy Recommendations
 - Discussion: Framework Development
- Next Steps



<https://www.menti.com/alzsy4bx73sg>



► Safe Streets 4 All Action Plan

The purpose of the Action Plan is to:

- Improve safety, mobility, and quality of life for all roadway users
- Reduce the number of roadway fatalities and serious injuries
- Promote a data-driven and community-led approach to improving safety, access, and quality of life



► Work Plan

1. Community Outreach
2. Crash Analysis, High-Injury Network, Corridor Prioritization
3. Draft Action Plan
 - Identify programs/policies to improve traffic safety
 - Identify priority corridors and conceptual improvement projects
4. Finalize and Adopt Action Plan



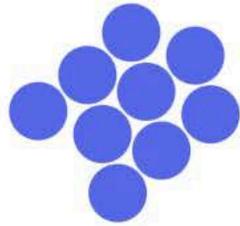
► Icebreaker Poll

What are the top roadway safety concerns in and around South Orange?

- **Speeding & aggressive drivers**
- **Unsafe walking conditions** (missing or poor sidewalk conditions, missing crosswalks or pedestrian signals, etc.)
- **Inadequate bike infrastructure** (bike lanes, bike storage, etc.)
- **Illegal parking** (double-parking, parking too close to corner, etc.)
- **Complicated or dangerous intersections**
- **School drop-off & pick-up**

▶ Poll Results

What are the top roadway safety concerns in and around South Orange? (select your top 2)



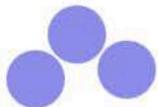
9 Speeding & aggressive drivers



4 Unsafe walking conditions (missing or poor sidewalk conditions, missing crosswalks or pedestrian signals, etc.)



1 Inadequate bike infrastructure (bike lanes, bike storage, etc.)



3 Illegal parking (double-parking, parking too close to corner, etc.)



1 Complicated or dangerous intersections

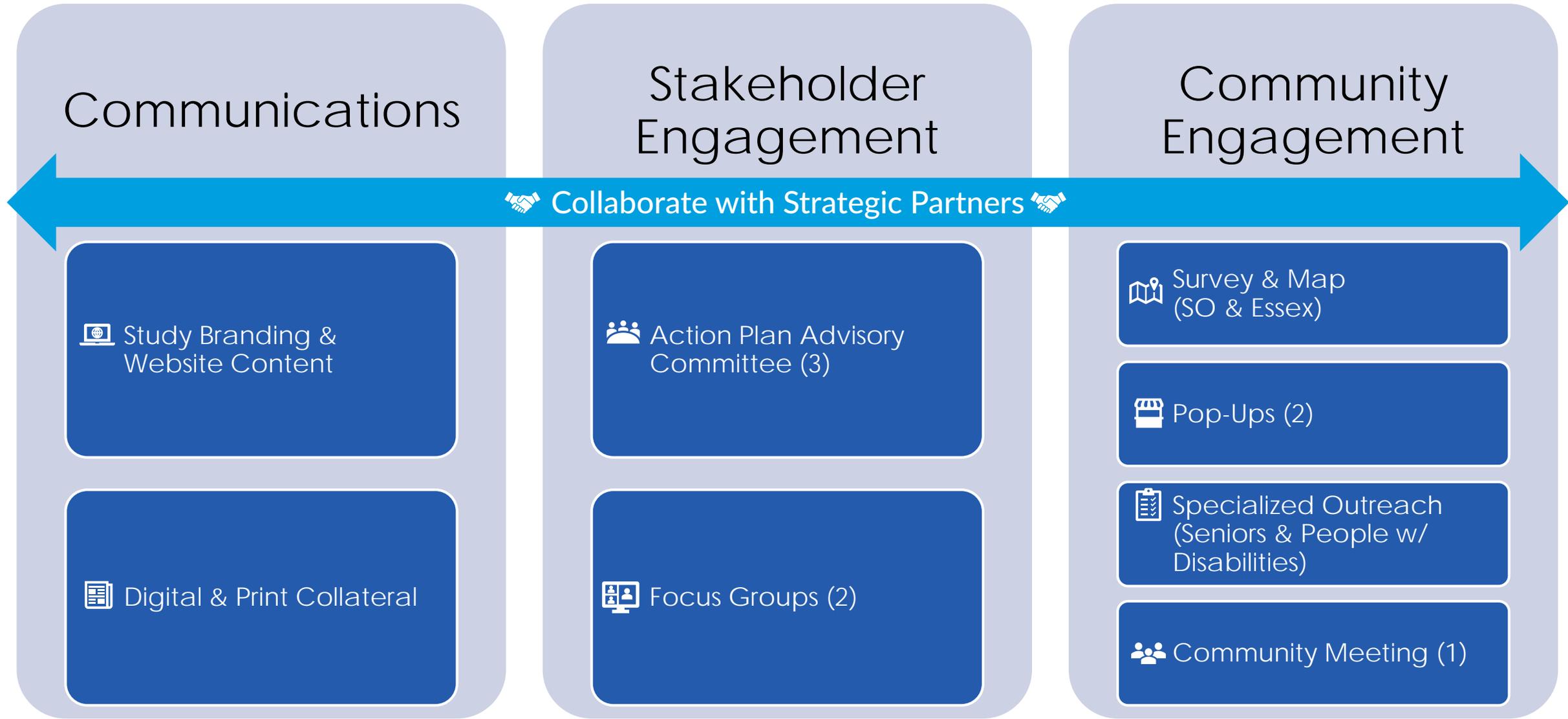


1 School drop-off & pick-up



Preliminary Outreach Results

► Public & Stakeholder Engagement Plan



► Focus Groups

MEETING DATES

December 16, 2025

December 17, 2025

PARTICIPATION

25 participants, including organizational leaders representing neighborhoods, social service providers, advocacy groups, and schools.

KEY TAKEAWAYS

- **Improve pedestrian safety** by redesigning streets and intersections in high-activity areas and providing protected crossings.
- **Address dangerous intersections** by improving traffic flow, visibility, and implementing traffic-calming measures.
- **Expand bicycle infrastructure** by developing a connected network of bike lanes, prioritizing routes to schools and neighborhood connections.
- **Upgrade street lighting** and visibility treatments to improve nighttime safety and visibility for all users.
- **Promote a people-first street culture** through Complete Streets, coordinated planning, and regional multimodal strategies.
- **Improve mobility** for seniors, teens, and people with disabilities through safer, reliable transit, improved senior support, and regional shuttle programs.
- **Improve South Orange Avenue** by narrowing travel lanes, improving signal timing, prioritizing pedestrians, and providing bike infrastructure.

► Pop-up Outreach

- Approx. 120 participants
- A diverse mix of children, teens, adults, families, and seniors with broad racial representation. Visitors were engaged, and positive, with a strong interest in street safety and the project overall.

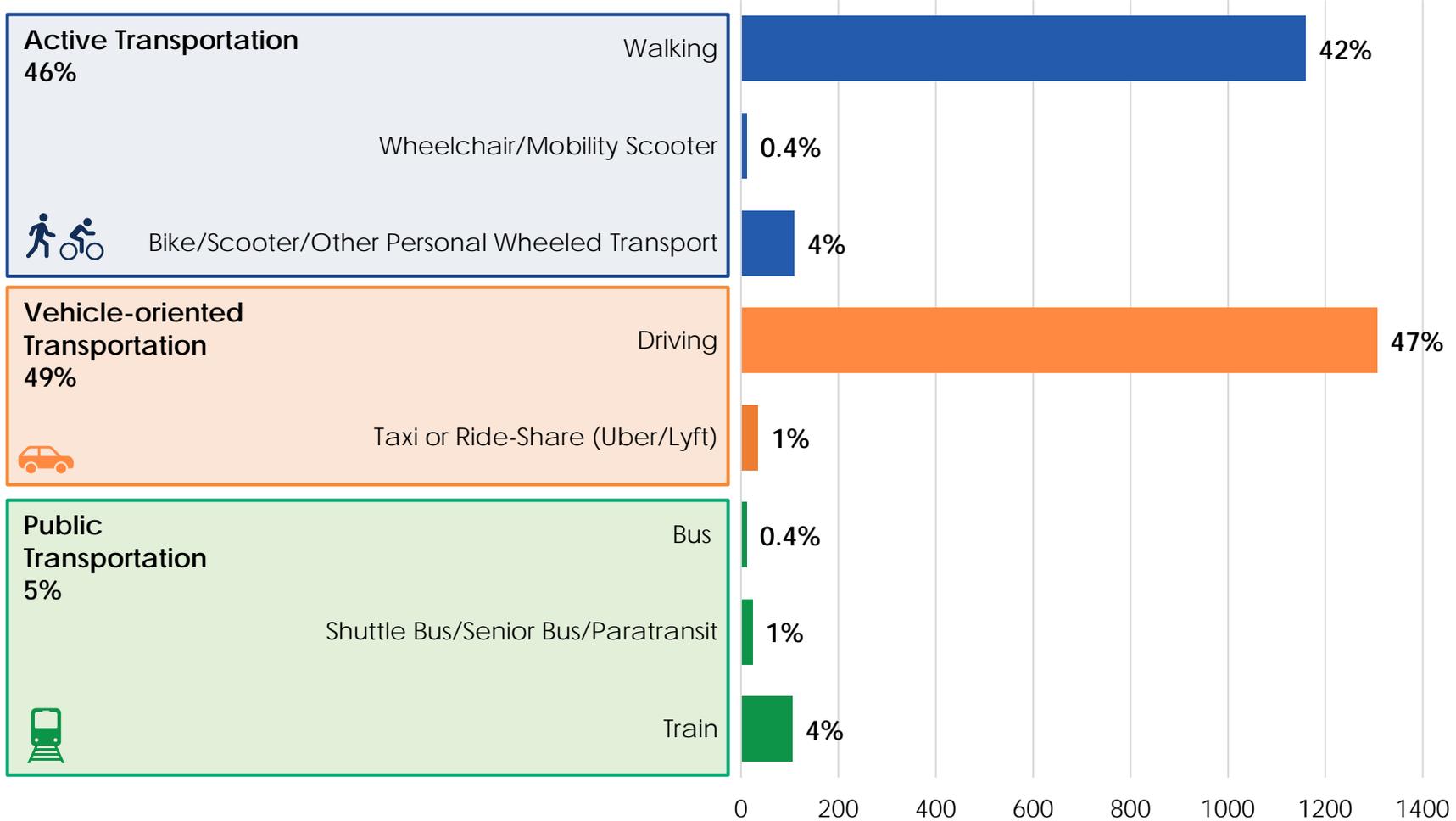


Food Truck Festival
Friday, October 17, 2025

Farmers Market
Wednesday, October 22, 2025

Current Travel Mode

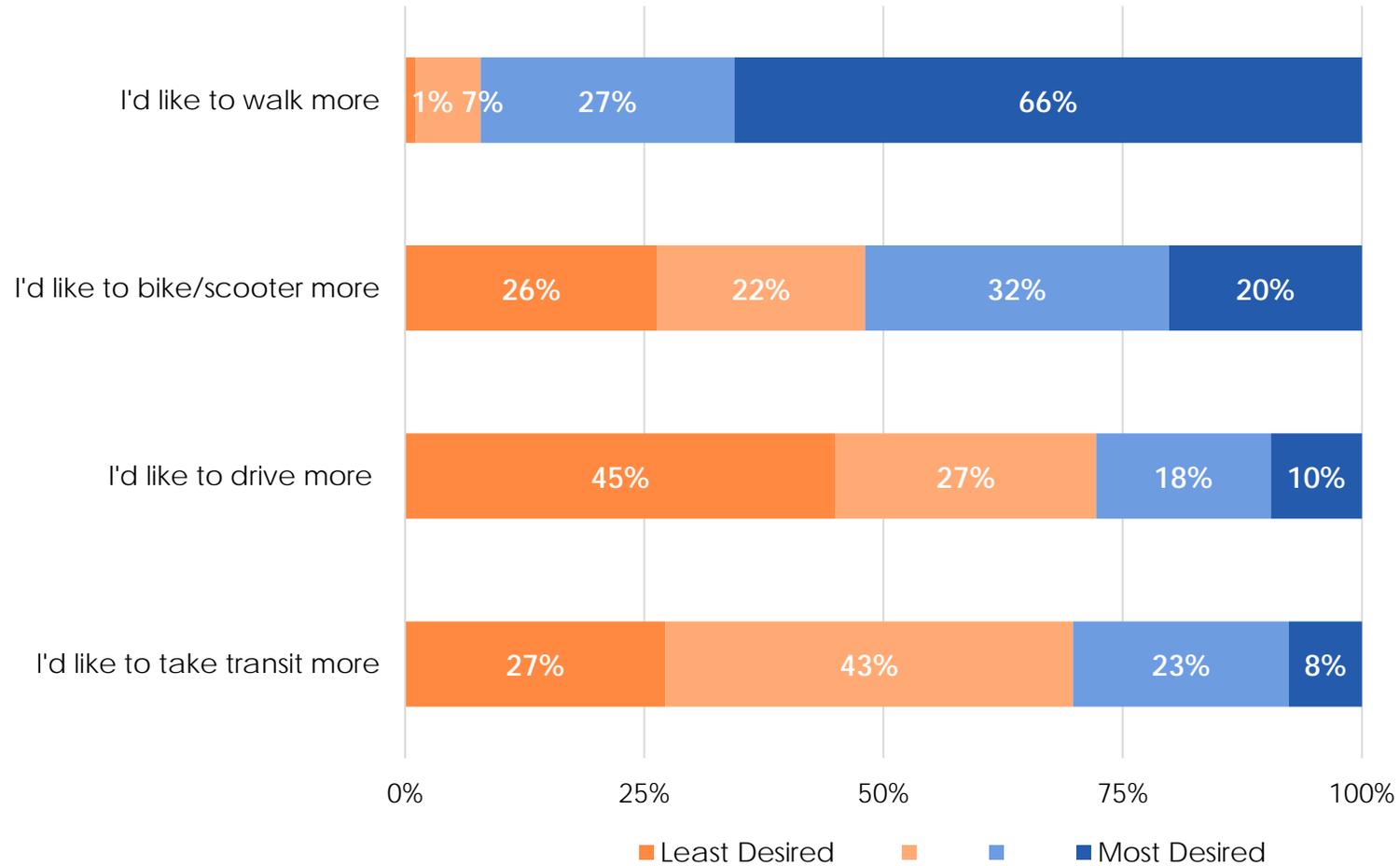
(All Survey & Pop-up Responses Combined)



1454 Online & Paper Survey Respondents/128 Pop-Up Respondents

Future Travel Mode

(All Survey & Pop-up Responses Combined)

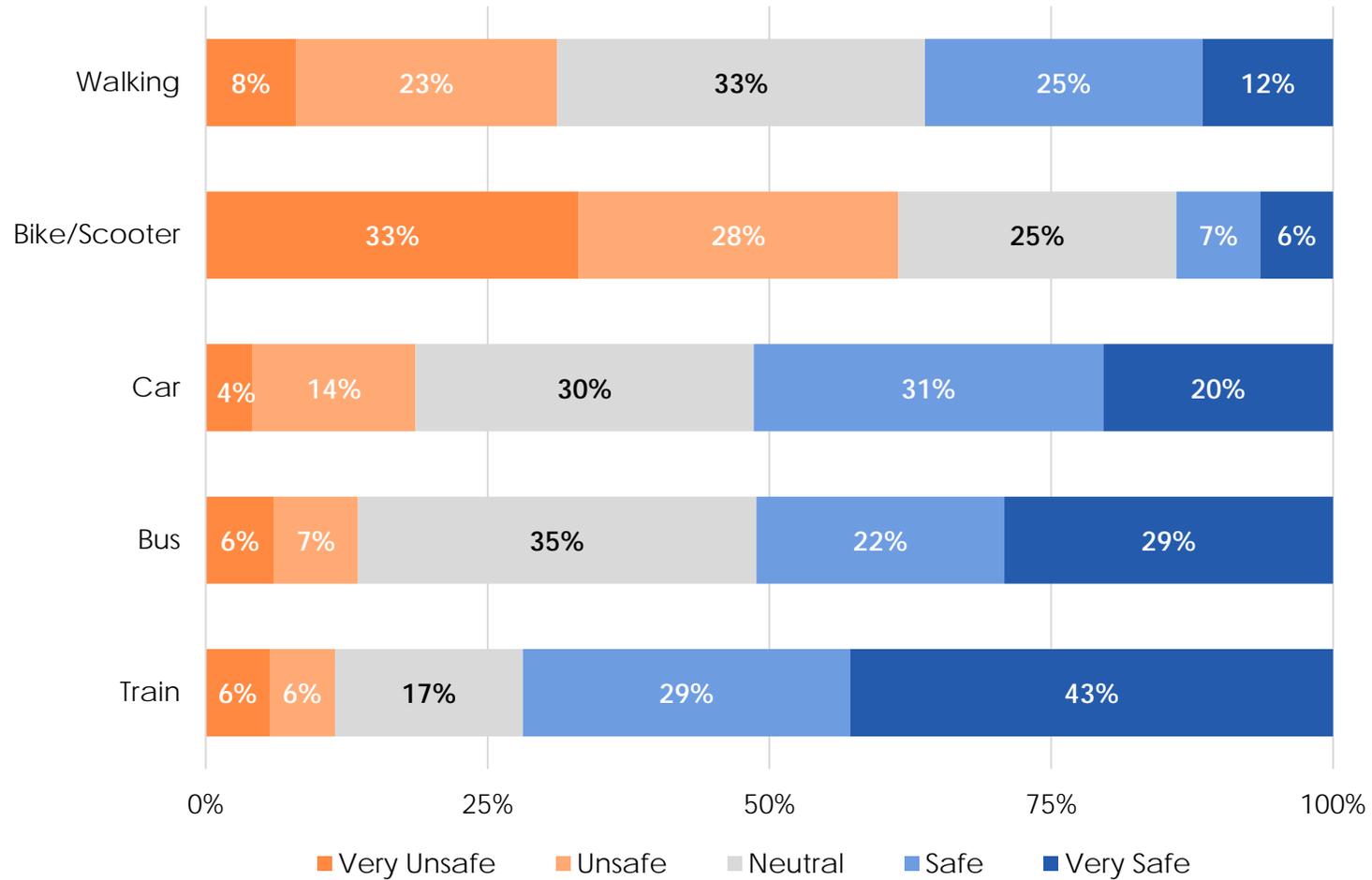


1451 Online & Paper Survey Respondents/64 Pop-Up Respondents



Safety Perception

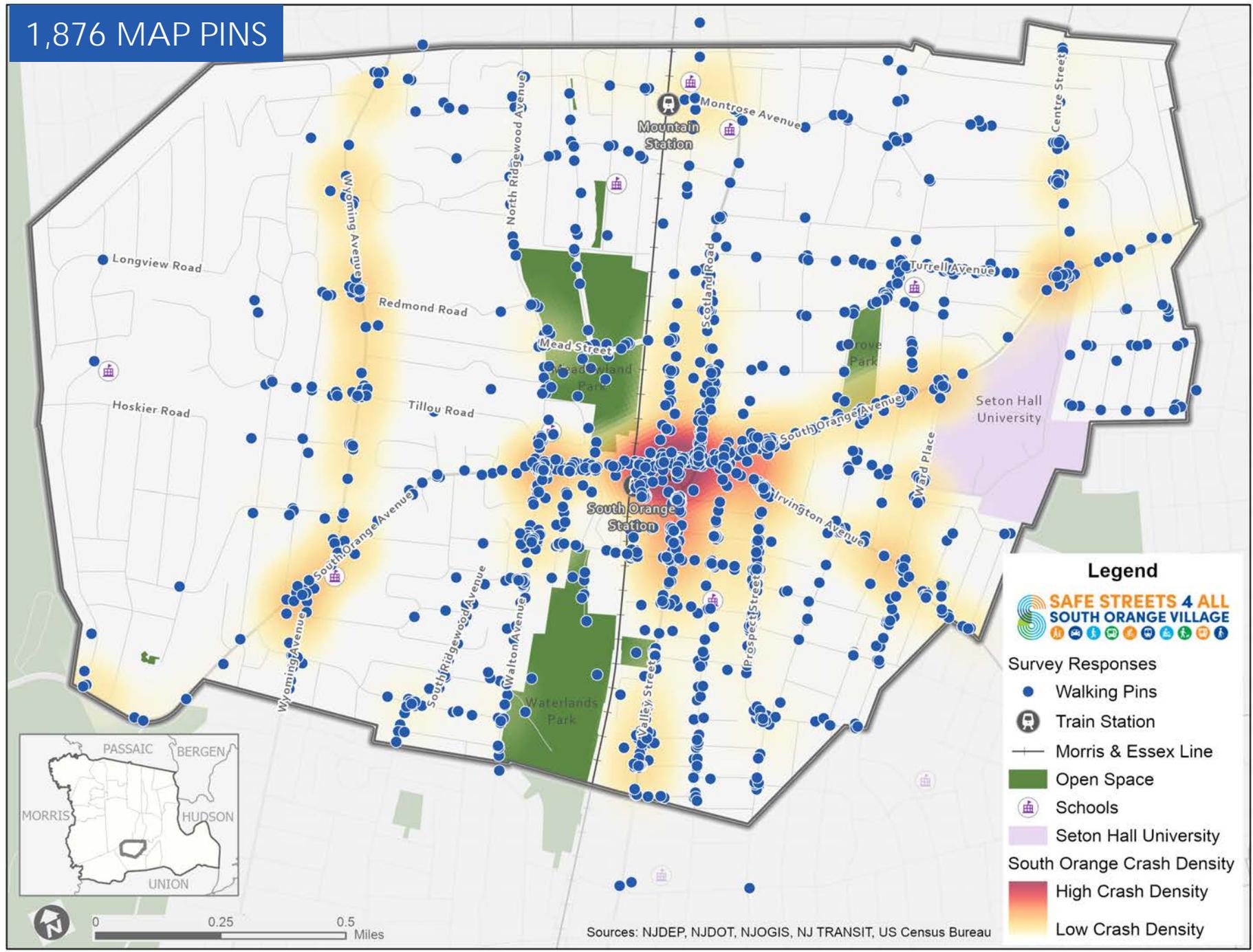
(All Survey & Pop-up Responses Combined)



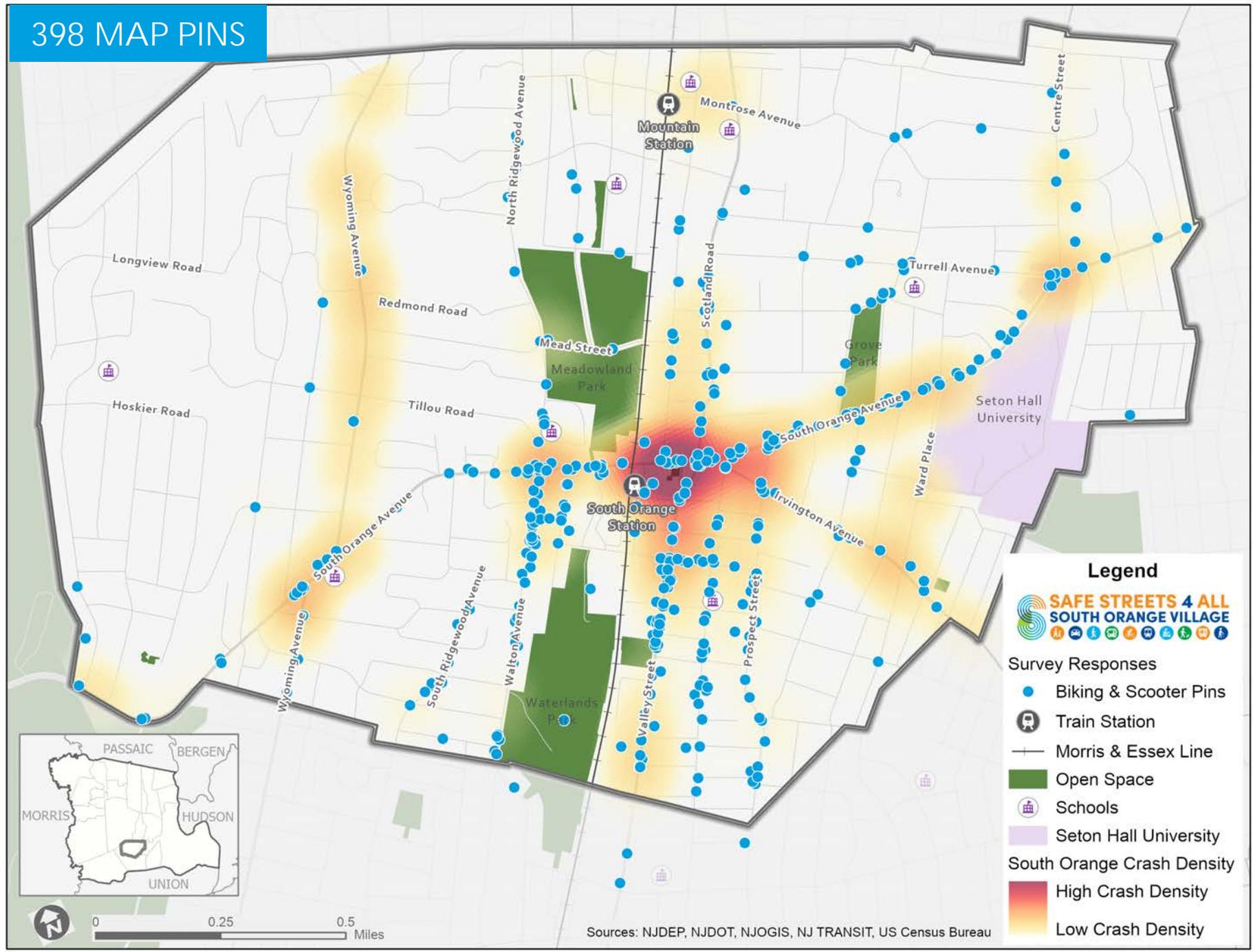
1452 Online & Paper Survey Respondents/87 Pop-Up Respondents



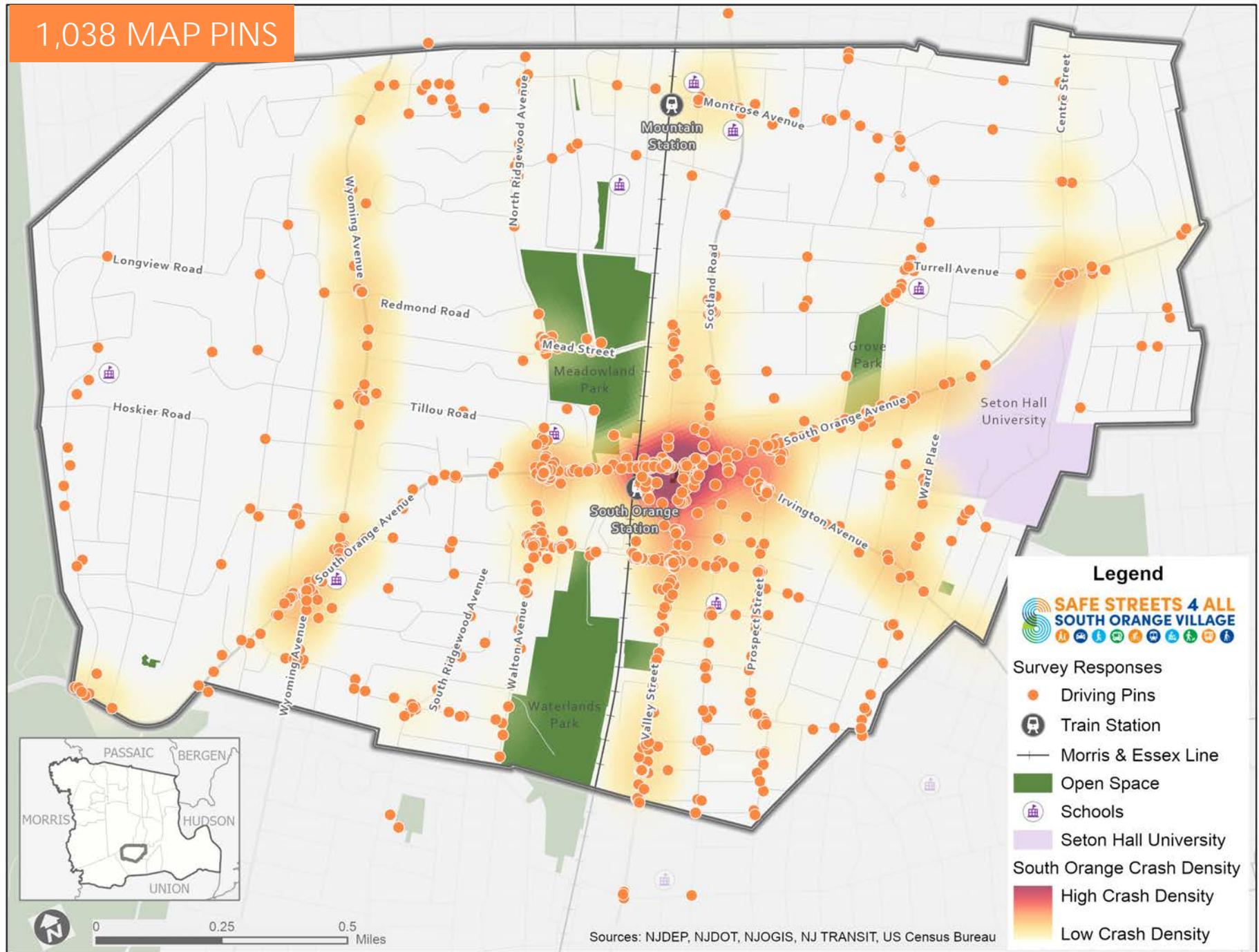
Concerns Map: Walking Pins



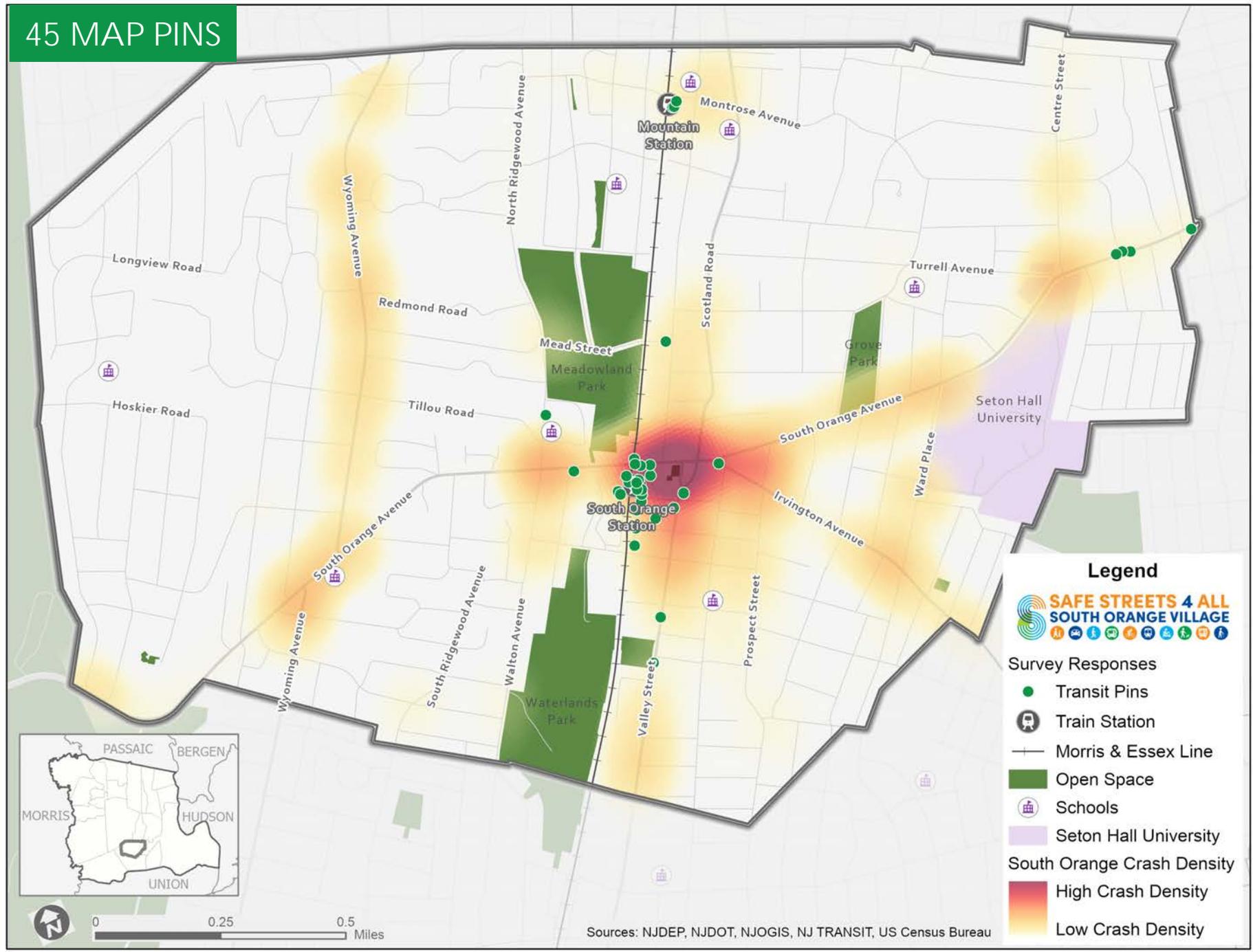
Concerns Map: Bike/ Scooter Pins



Concerns Map: Driving Pins



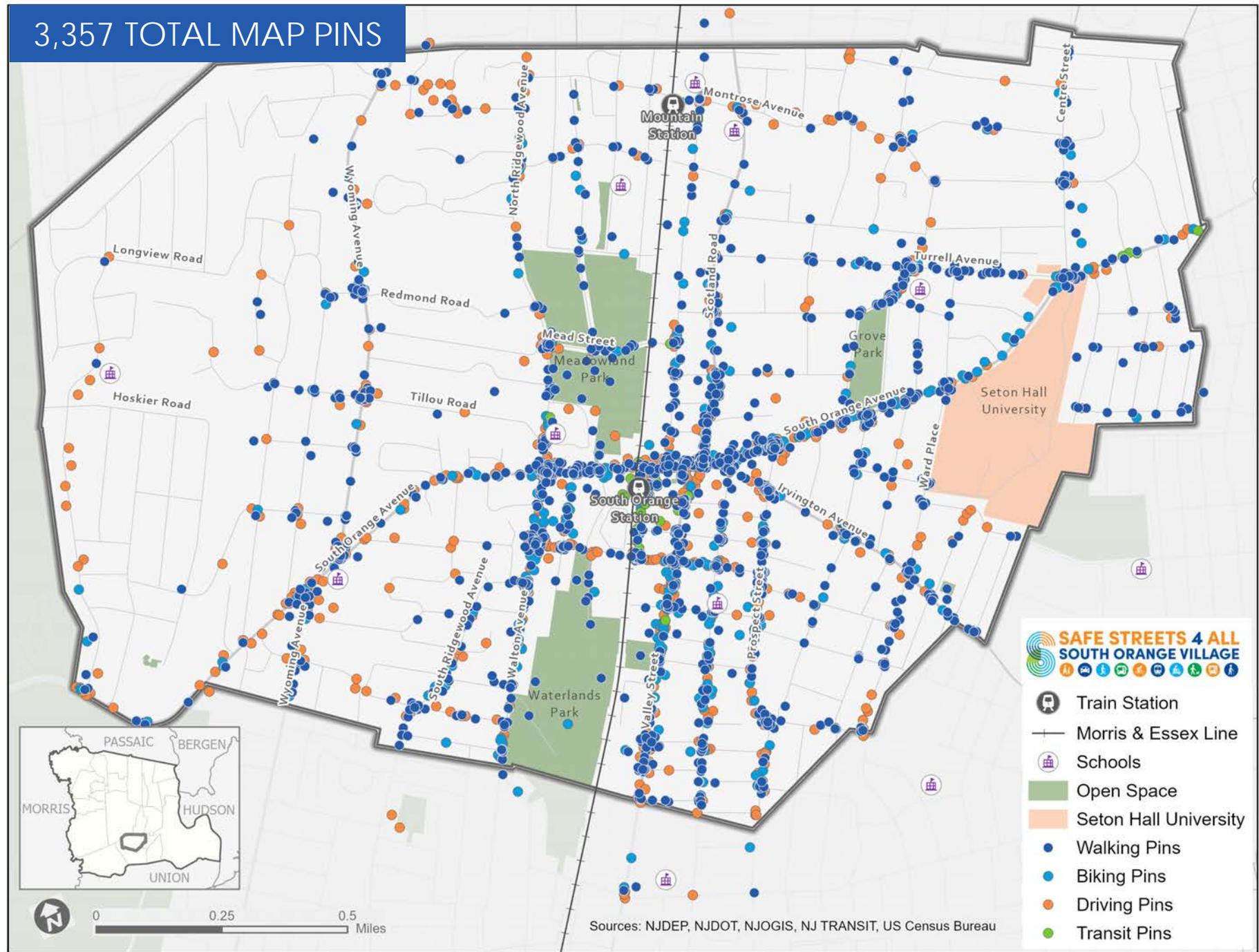
Concerns Map: Transit Pins



Concerns Map: All Pins

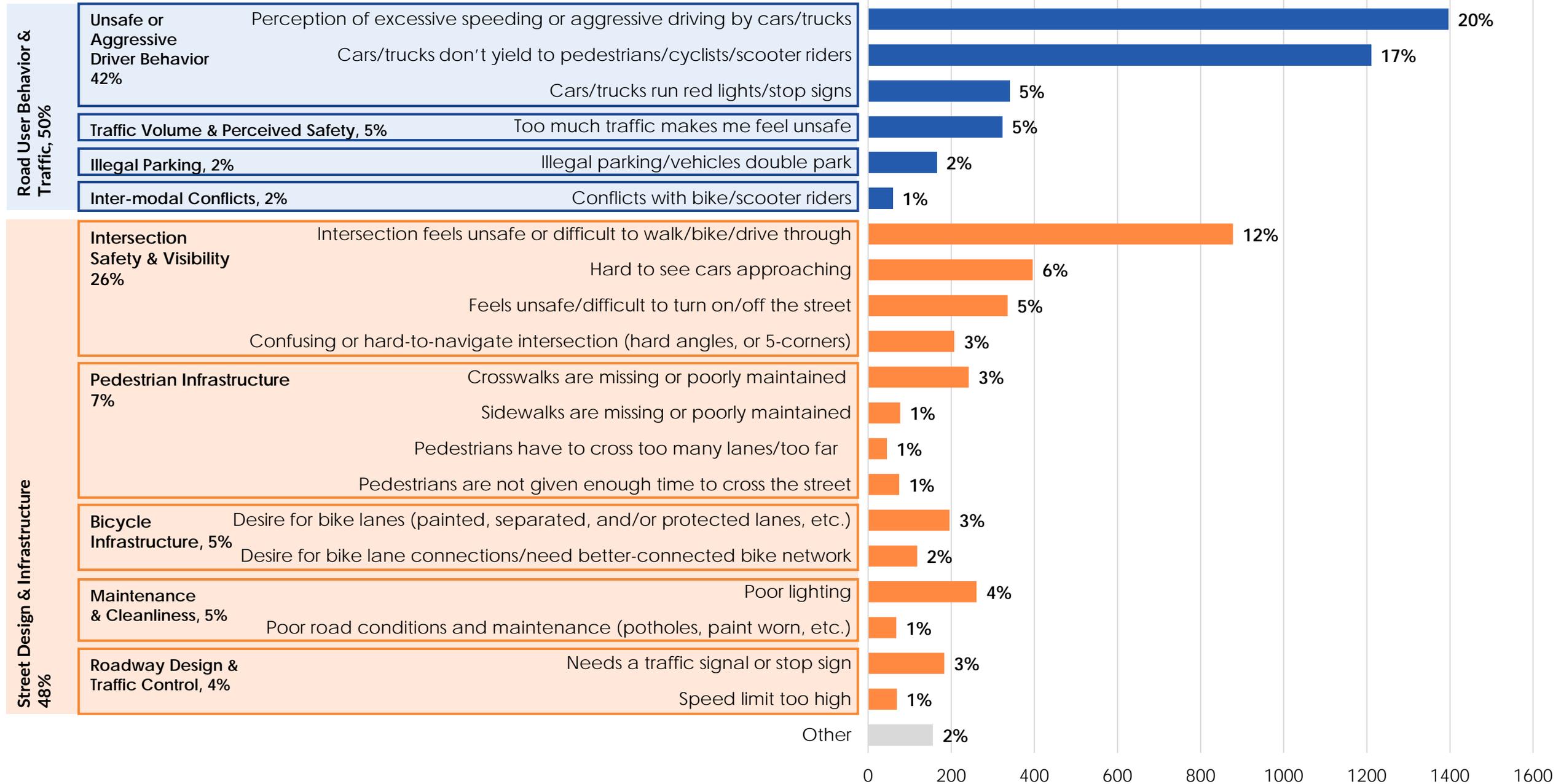
Clusters:

- South Orange Station/Downtown
- South Orange Avenue
- Valley Street/Scotland Road
- Ridgewood Road
- Prospect Street
- Academy Street
- Irvington Avenue
- Grove Road
- Turrell Avenue
- Centre Street



COMBINED MAP RESPONSES

(All Survey Map Responses Combined)





Questions & Discussion

Does anything stand out to you in the outreach results?



Crash Analysis

► Crash Analysis Methodology

- Comprehensive crash data resources provided by NJDOT
- Methodology uses 5 years of data to assess safety conditions (most recent available was 2018-2022)

Three levels of analysis:

1. **Initial assessment** to identify crash trends
2. **High Injury Network (HIN)** developed based on crash frequency and severity
3. **Corridor Prioritization** based on frequency, severity, high-risk factors, presence of vulnerable road users (walkers & cyclists), and public outreach results

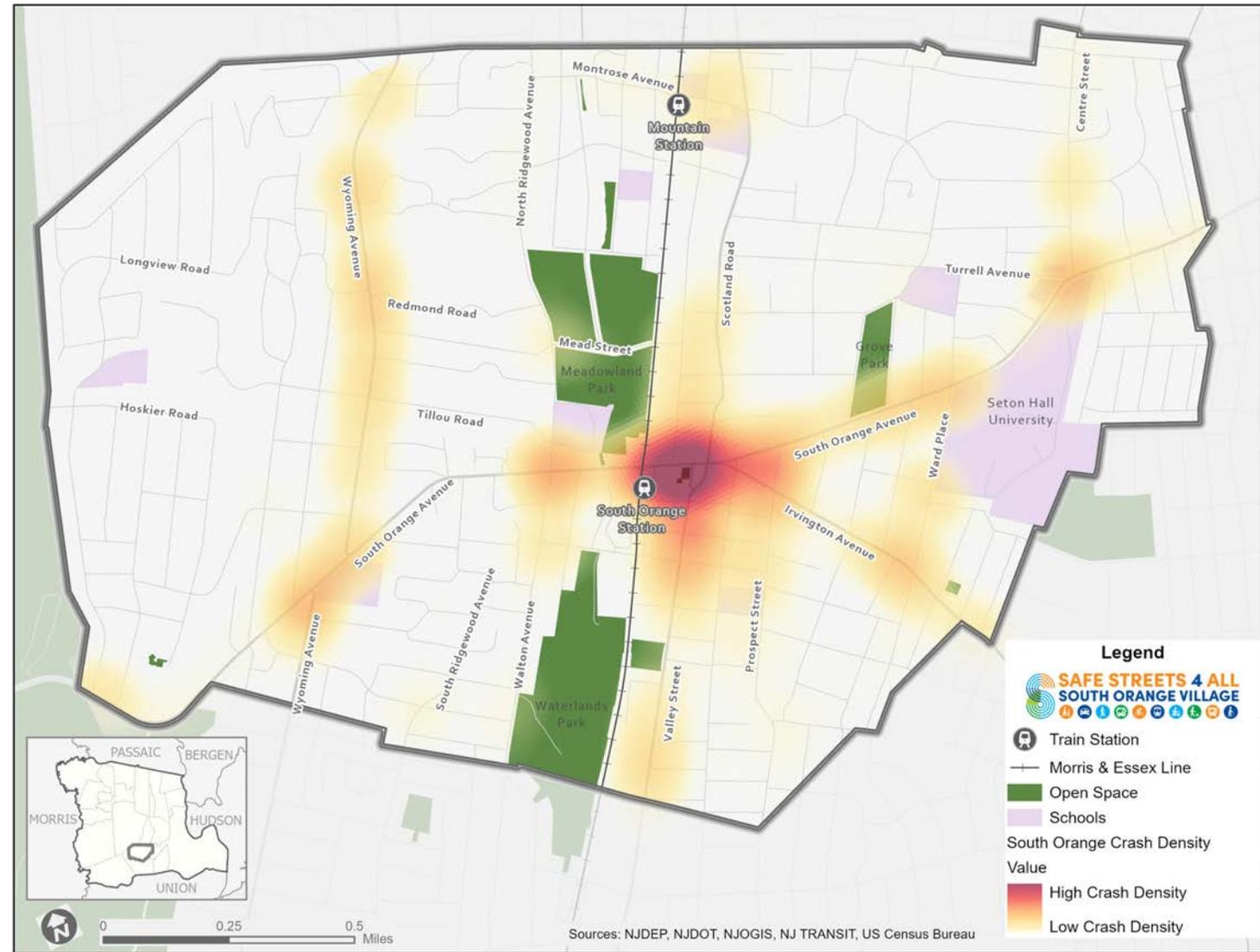
Result:

4. **Recommended Safety Improvement Projects** for Priority Corridors

▶ 1. Initial Crash Analysis

• Crash Hot Spots:

- South Orange Avenue
- Wyoming Avenue
- Irvington Avenue
- Valley Street
- Prospect Street
- Montrose Avenue
- Centre Street

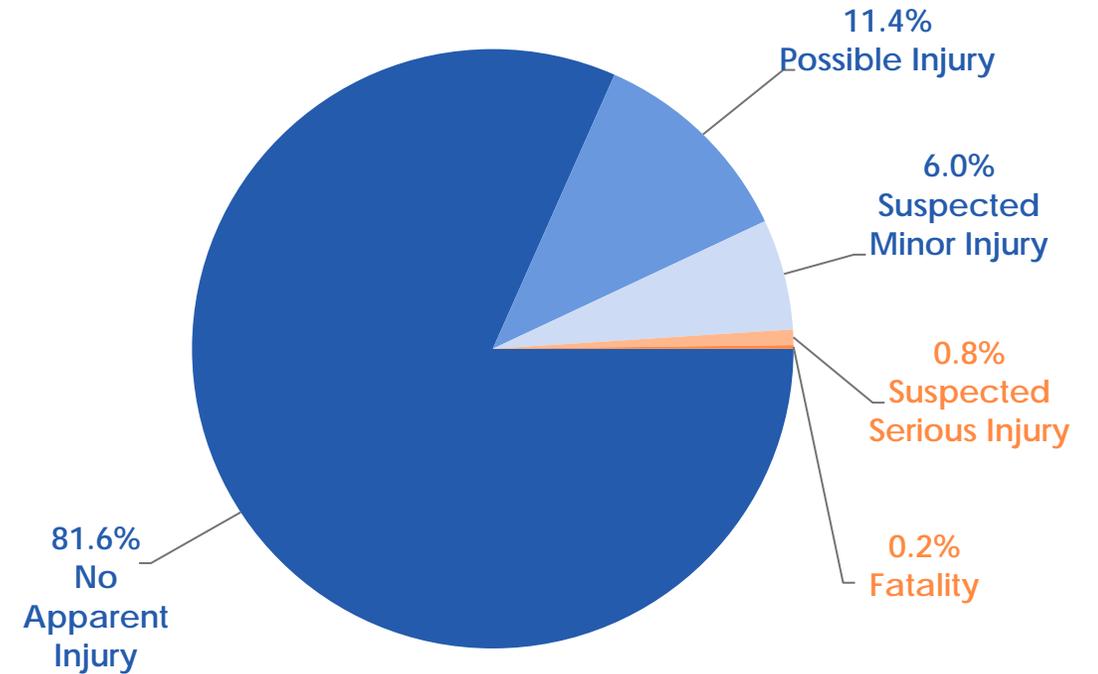


Safety Voyager 2018-2022

► Crash Severity Summary



Injury Severity	Total Crashes
No Apparent Injury	1,271
Possible Injury	177
Suspected Minor Injury	93
<i>Suspected Serious Injury</i>	<i>13</i>
<i>Fatality</i>	<i>3</i>
Total	1,557



Safety Voyager 2018-2022

▶ Disproportionate Impact of Crashes



All Crashes
94.8%

Fatal & Serious Injury (FSI) Crashes
43.8%



4.4%



0.8%

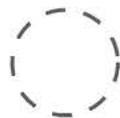


Disproportionate impact to Vulnerable Road Users (walkers and bikers)

* FSI = Fatal or Severe Injury
Safety Voyager 2018-2022

► Impact of Speed

IMPACT OF CRASHES ON VULNERABLE ROAD USERS



Driver field of vision



Hit by a vehicle driving at different speeds



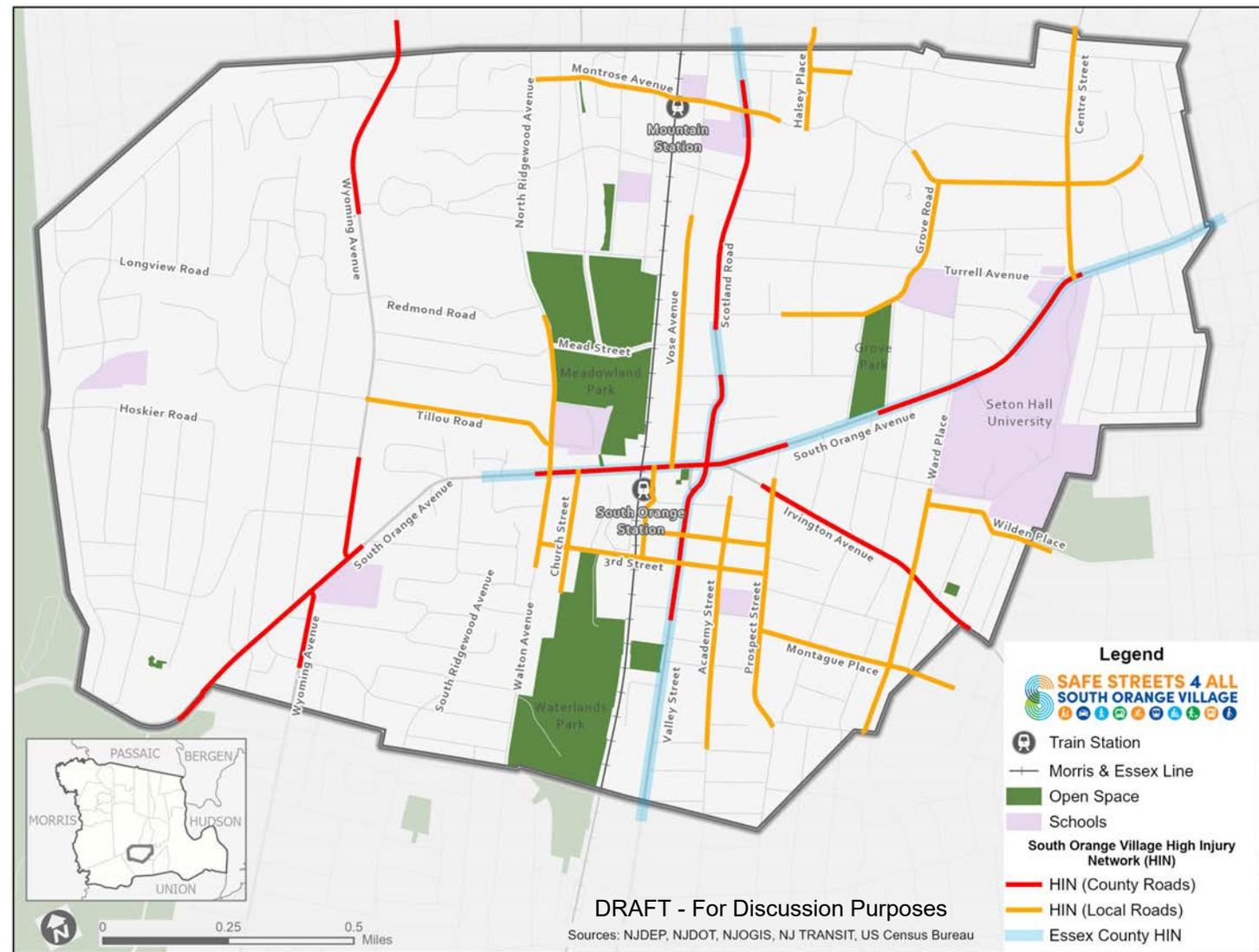
Person survives the collision



Results in a death

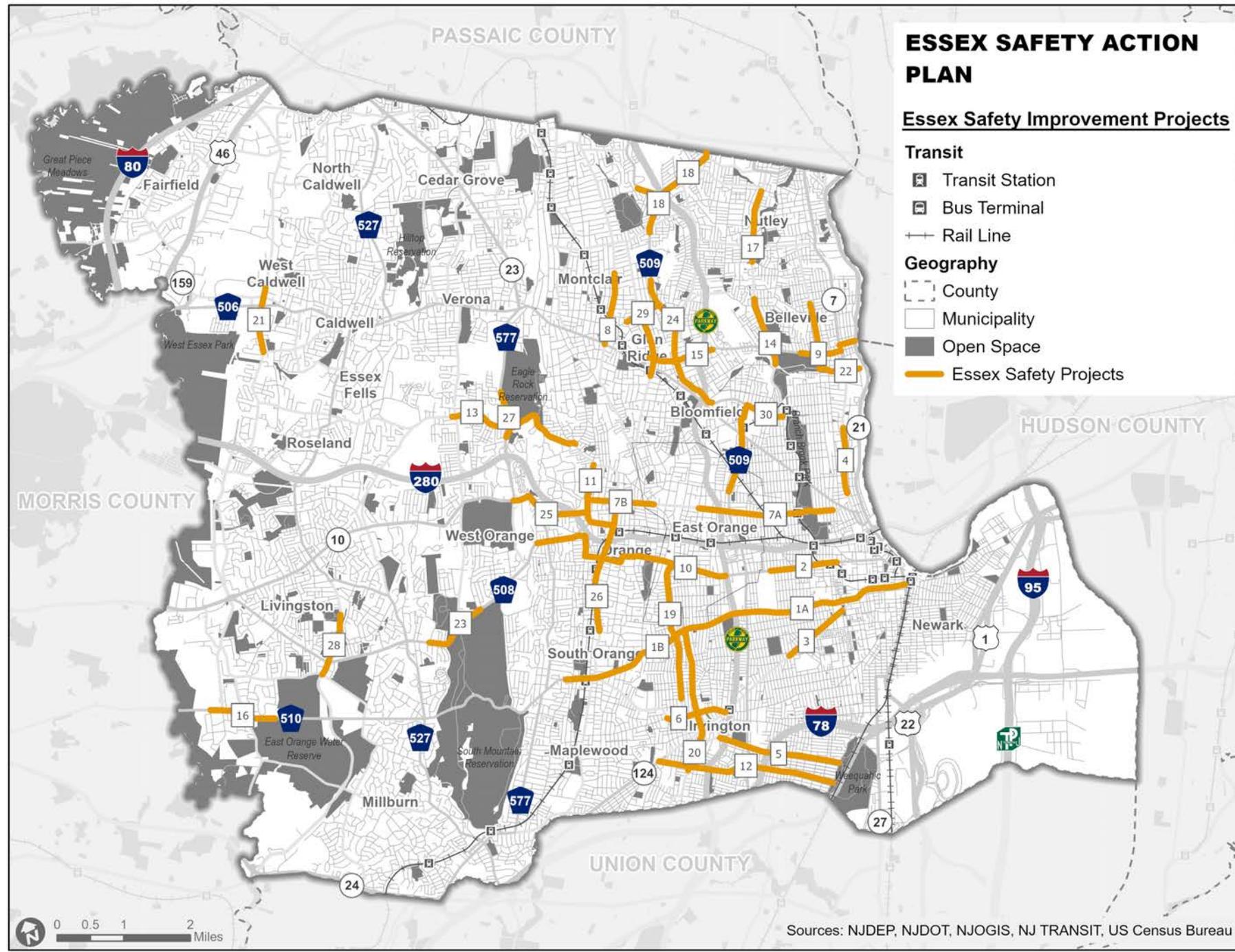
▶ 2. High Injury Network

- Top 26 1/2-mile segments:
 - 21% of Roadway miles
 - 79.2% of Fatal and Serious Injury Crashes (FSI)
- Methodology prioritizes locations with the highest crash risk



3. Corridor Prioritization

(Example from Essex County Safety Action Plan)



▶ 3. Prioritization Factors

- **Crash Risk Score (~40%):** Composite score of crash severity and frequency (higher severity has a higher score) aka High Injury Network (HIN)
- **Fatalities and Serious Injuries (~10%):** Considers the total number overall, and includes most recent through 2025
- **High Risk Features (TBD%):** Presence of road features and vulnerable road users correlated with higher crash frequency and severity (roadway classification, posted speed limit)
- **Vulnerable Road User Attractors (TBD%):** Presence of vulnerable road users who are disproportionately impacted by crashes (proximity to transit stops, schools, libraries)
- **Previous & Existing Plans & Projects (TBD%):** Consideration of recent planning and capital projects
- **Public Input Score (TBD%):** Presence of community input pins

▶ Contributing Factors: Proximity

● FSI Crashes near Pedestrian and Bicycle Trip Generators

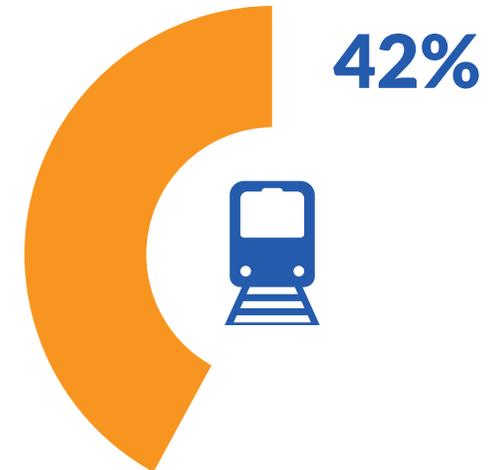
0.5 Miles from a School



300-feet from a Bus Stop



0.5-miles from a Train Station



4. Safety Improvement Projects (Example from Essex County Safety Action Plan)



1B. South Orange Avenue (CR 510), Conway Court to Boylan Street

Municipality: E. Orange/Newark/S. Orange
Length: 2.19 miles

School Zone Transit Demographic Score Above County Average

This combined corridor (Essex County Route 510) covers more than 5 miles in the cities of South Orange, East Orange, and Newark. Two segments are recommended. This segment is 2.19-miles long from Conway Court in South Orange to Boylan Street in East Orange. The combined corridor segments are ranked the highest in Essex County for crash risk and severity. This combined corridor is among the most important travel corridors in the County. A diverse program of safety countermeasures is proposed, including new traffic signals, pedestrian safety, lighting, traffic calming, and transit safety. A diverse program of safety countermeasures is proposed, including new traffic signals, pedestrian safety, lighting, traffic calming, and transit safety. Additional countermeasures include geometric improvements and curb extensions to shorten pedestrian crossing distances at targeted locations based on local context and crash history.

Crash Summary

- Total Crashes - 861
- Total Fatal Crashes - 4 (0.5%)
- Total Serious Injury Crashes - 14 (1.6%)
- Total Pedestrian Crashes - 67 (7.8%)
- Total Bicyclist Crashes - 6 (0.7%)

Top 3 Crash Types

25% Rear-End Crashes
21% Sideswipe Crashes
17% Struck Parked Vehicle

Community Concerns and Feedback

EXCESSIVE SPEEDING
 INTERSECTION FEELS UNSAFE
 MOTORISTS DON'T YIELD TO PEDESTRIANS / CYCLISTS

Recommended Countermeasures

1. Upgrade Traffic Signals	4. Intersection Daylighting & Curb Extension	7. Sidewalks & ADA Ramps	12. Road Diet
2. Leading Pedestrian Interval (LPI)	5. Improved Street Lighting	8. Rectangular Rapid Flashing Beacon (RRFB)	18. High Friction Surface Treatment
3. Yellow Change Interval	6. High Visibility Crosswalk	11. Reduce Speed Limits	





Questions & Discussion

► Prioritization Methodology Poll

Rank your priorities for focus corridors...

- Proximity to schools
- Proximity to transit
- Proximity to recreation facilities (parks, trails, etc.)
- Proximity to supportive/senior housing
- Proximity to libraries/community centers
- Presence of high-risk road features
- Community engagement results
- Previous & existing plans & projects



▶ Poll Results

Rank your priorities for focus corridors...



► Policy Framework



Theme 1: Plan, Design, and Build “Safe Streets for All”

by focusing on safe street design solutions and promoting accessible active transportation and transit options as viable choices

Theme 2: Promote a Culture of Safety

by addressing the root causes of dangerous driving behaviors and shared responsibility through education, engagement, and enforcement policies

Theme 3: Partner and Collaborate

across departments, advocacy organizations, and community partners to align goals and deliver safety improvements more effectively

► Theme 1: Plan, Design, and Build SS4A

- Speed Management
- **Public Transportation** (Local & Regional Options, Microtransit, Transit Station/Stop Access & Amenities)
- **Active Transportation** (Trails, Bike Lanes, Amenities)
- **Contextual Treatments**
 - **Downtown District** (Multimodal Flexibility/ Mode Separation, Curb Management, Parking, Lighting)
 - **School Zones** (Active Transportation, Mode Separation, Awareness/ Visibility/Signage)
 - **Recreation & Community Facilities**
 - **Residential Neighborhoods**

Note that the content in parentheses are only examples of possible action items. We will develop more detailed recommendations for the next APAC meeting.

► Theme 2: Promote a Culture of Safety

- **Planning** (Bike Plan, Complete Streets Ordinance/Design Guide, Road Safety Audits)
- **Education** (Public Campaigns, Staff Training)
- **Enforcement** (Speeding & Crosswalk Campaigns, Parking, Automated Technologies)
- **Capital Expenditures** (Road Construction Budget Priorities)



Note that the content in parentheses are only examples of possible action items. We will develop more detailed recommendations for the next APAC meeting.

► Theme 3: Partner and Collaborate

- **South Orange Transportation & Pedestrian Safety Committee as SS4A oversight/ implementation committee**
 - Performance Measures & Reporting
- **Collaboration & Coordination**
 - **Essex County** (County Roads)
 - **Maplewood** (Cross-jurisdictional Policy & Projects)
 - **Walk Bike Ride South Orange**
 - **SOMa School District**
 - **SOMa Bike Bus**
 - **Social Service Organizations** (JESPY House, Seniors, Youth)
 - **EZ RIDE** (Education, Safe Routes to School, Safety Audits, Demo Projects)
- **Funding** (Identification & Solicitation for Planning & Capital Projects)

Note that the content in parentheses are only examples of possible action items. We will develop more detailed recommendations for the next APAC meeting.



Questions & Discussion

Without getting into specific strategies/actions...

- Do the overarching and subcategory themes make sense?*
- Is anything missing?*

▶ Next Steps

- **Next APAC Meeting: Late March 2026**
 - Priority Corridor Map/List
 - Draft Project Recommendation Sheet for 1 Corridor (*as example for review*)
 - Draft Policy Recommendations
- **Final APAC Meeting: Late May 2026**
 - Draft Project Recommendations
 - Refined Draft Policy Recommendations
- **Virtual Community Meeting: June 2026**
 - Present and gather community feedback on Draft Project and Policy Recommendations





SAFE STREETS 4 ALL

SOUTH ORANGE VILLAGE



Thank you!