Mid-South
Safety **A**ction **P**lan

Toward Zero Deaths

ETC & TPB Meeting

May 25, 2023

WEST MEMPHIS AREA MPO
Metropolitan Planning Organization

Memphis MPO
METROPOLITAN PLANNING ORGANIZATION

Background

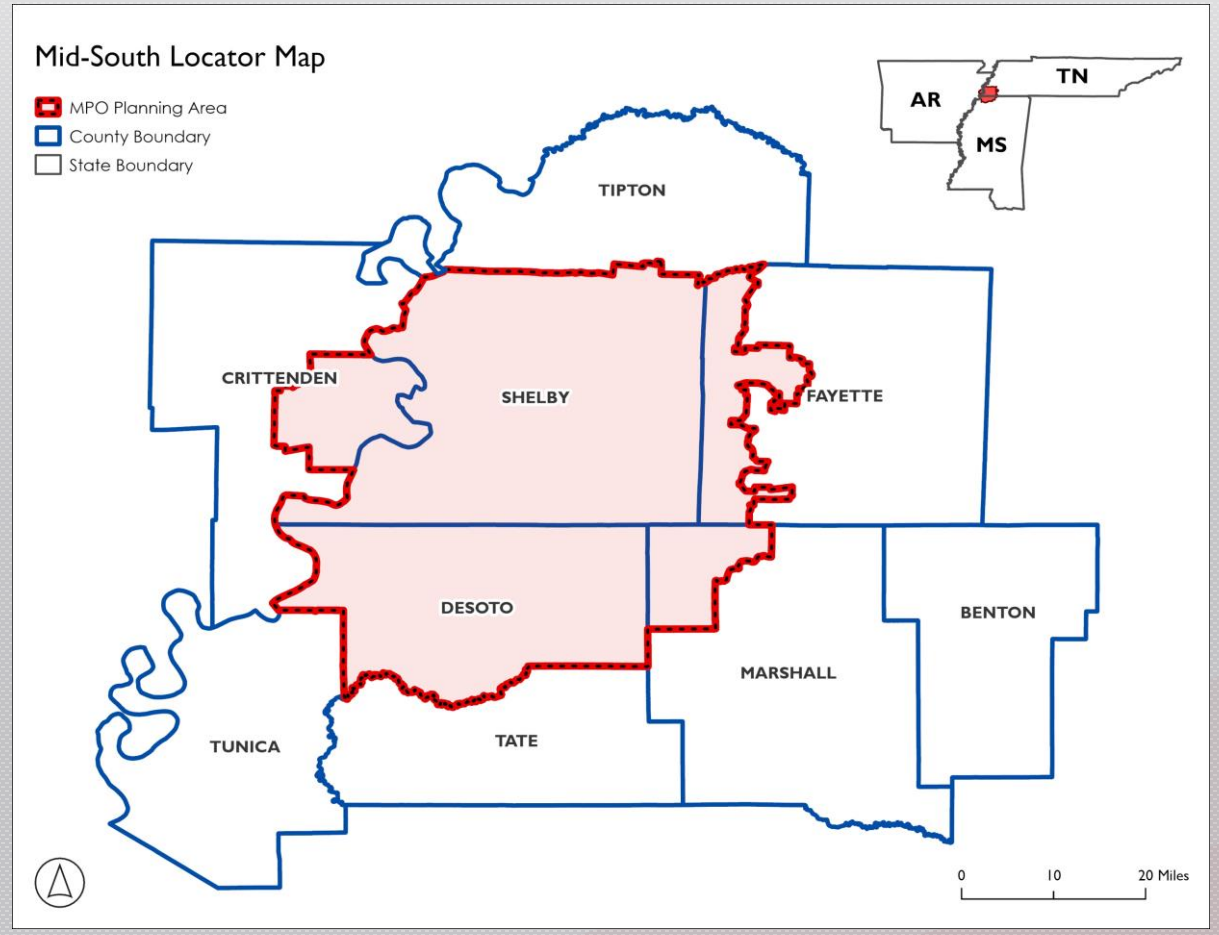
Address concerning traffic safety trends

Unlock new funding opportunities for local agencies

Enhance regional collaboration

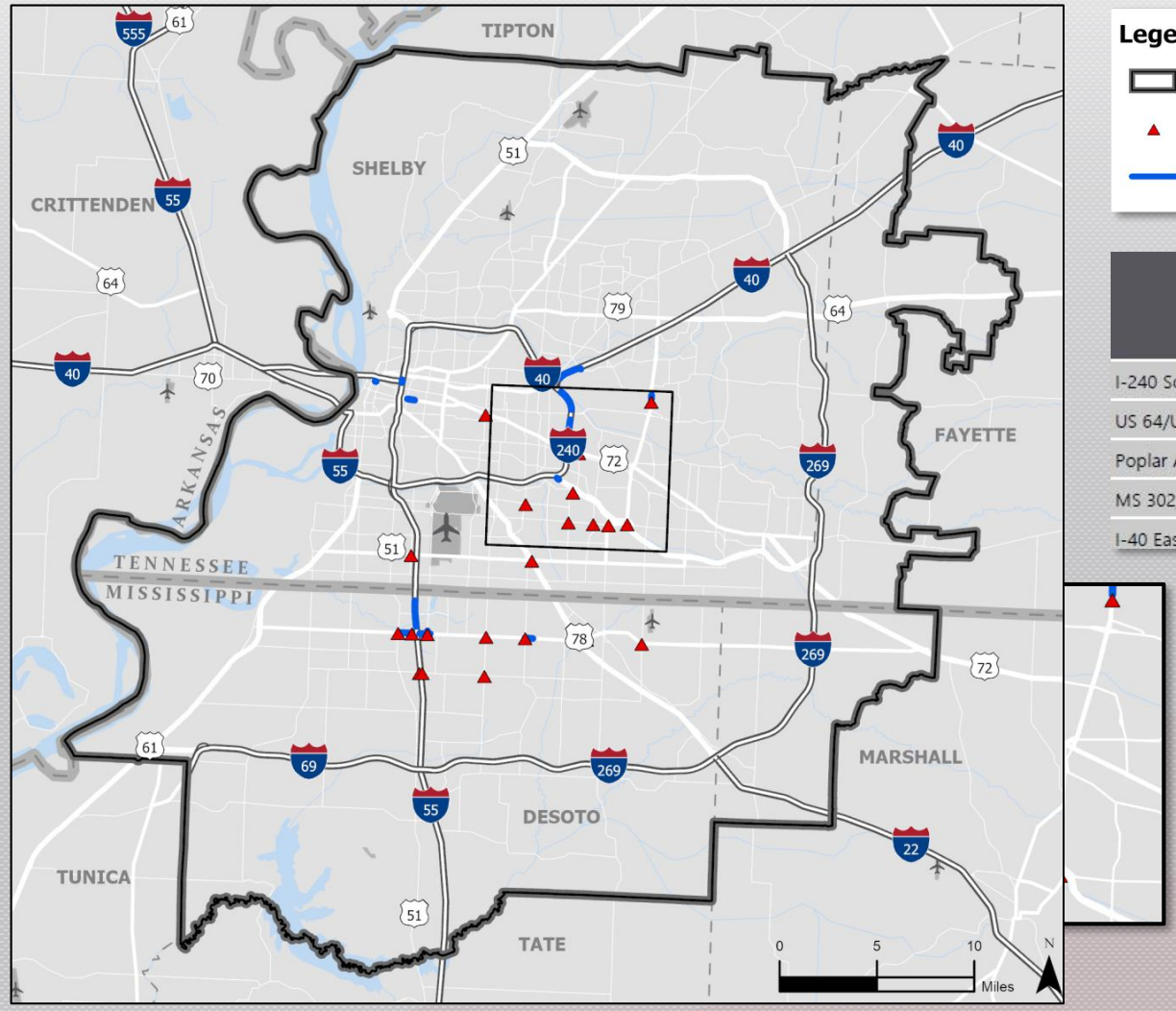
Leverage existing data collection & analysis efforts

Planning Area



- Memphis Metropolitan Area
  - 1.3 Million Residents
  - Three States (TN, MS, AR)
  - Five Counties
  - 21 Municipalities
  - Two MPOs (Memphis & West Memphis)

2050 RTP Update – Crash Analysis



Legend

- Metropolitan Planning Area
- High Crash Frequency Intersection
- High Crash Frequency Segment

Top 5 Crash Frequency Segments, 2016-20

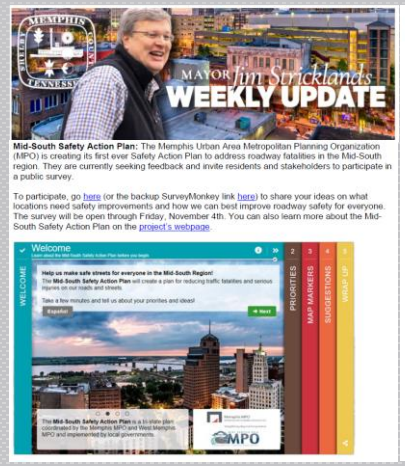
Route	Location	Total Crashes
I-240 Southbound	I-40/Sam Cooper Boulevard On-Ramp to SR 23/Walnut Grove Road Off-Ramp	444
US 64/US 70/US 79 (SR 23)/Union Avenue	South Cleveland Street to South Willet Street	291
Poplar Avenue	0.07 miles west of North Fourth Street to North Fourth Street	266
MS 302/Goodman Road Eastbound	I-55/I-69 Northbound Ramps to Southcrest Parkway	254
I-40 Eastbound Off-Ramp	At Sycamore View Road Southbound	247

Top 5 Crash Frequency Intersections, 2016-20

Intersection	Total Crashes
US 51 at MS 302/Goodman Road	440
Riverdale Road at Winchester Road	425
I-55/I-69 Northbound Off-Ramp at Church Road	402
Perkins Road at Knight Arnold Road	402
Hickory Hill Road at Winchester Road	386

Community Engagement – Process

- Stakeholder Engagement
  - Safety Action Plan Working Group (SAPWG)
  - Other Stakeholder Groups
- Public Outreach
  - In-person engagement with **150+ individuals**
  - Approx. **1000 responses** (online & in-person)



Community Engagement – Results

Q: What [safety] strategies are most important?

Rank	Safety Strategies	Safety Concerns	# of Map Markers
1	Redesign Unsafe Intersections	Unsafe Intersection	896
2	Increase Traffic Enforcement	Excessive Vehicle Speeds	1099
3	Improve Signage, Markings, & Lighting	Inadequate Lighting	261
4	Design for Slower Speeds	Other Road Design Issue	397
5	Improve Bike/Ped Infrastructure	Missing/Unsafe Sidewalk	181

Q: How can we [generally] improve roadway safety in the Mid-South?

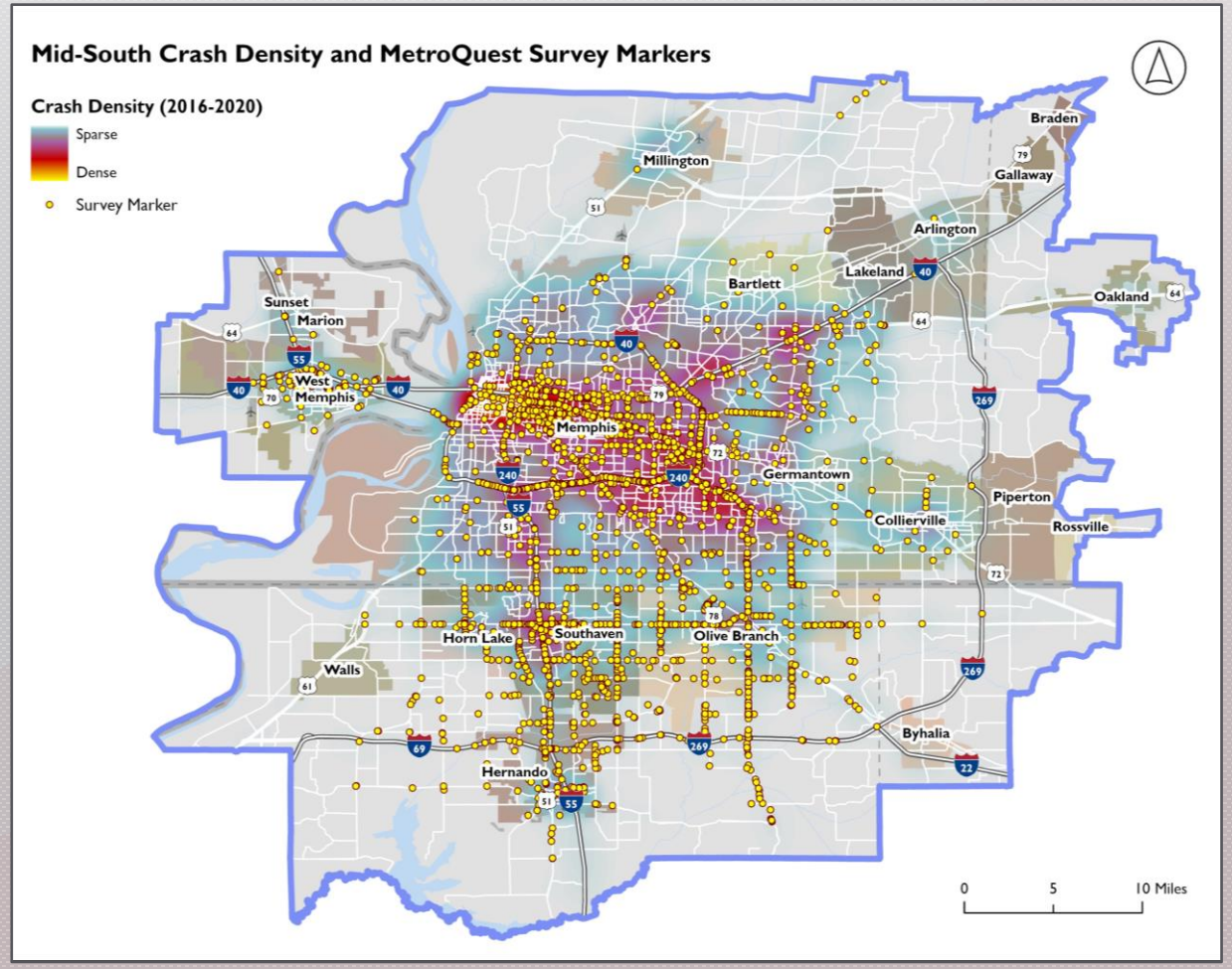
"Increase enforcement. SAFE bike lanes. Education about pedestrian (and Greenline) crossings."

"Crack down on speeding & aggressive drivers."

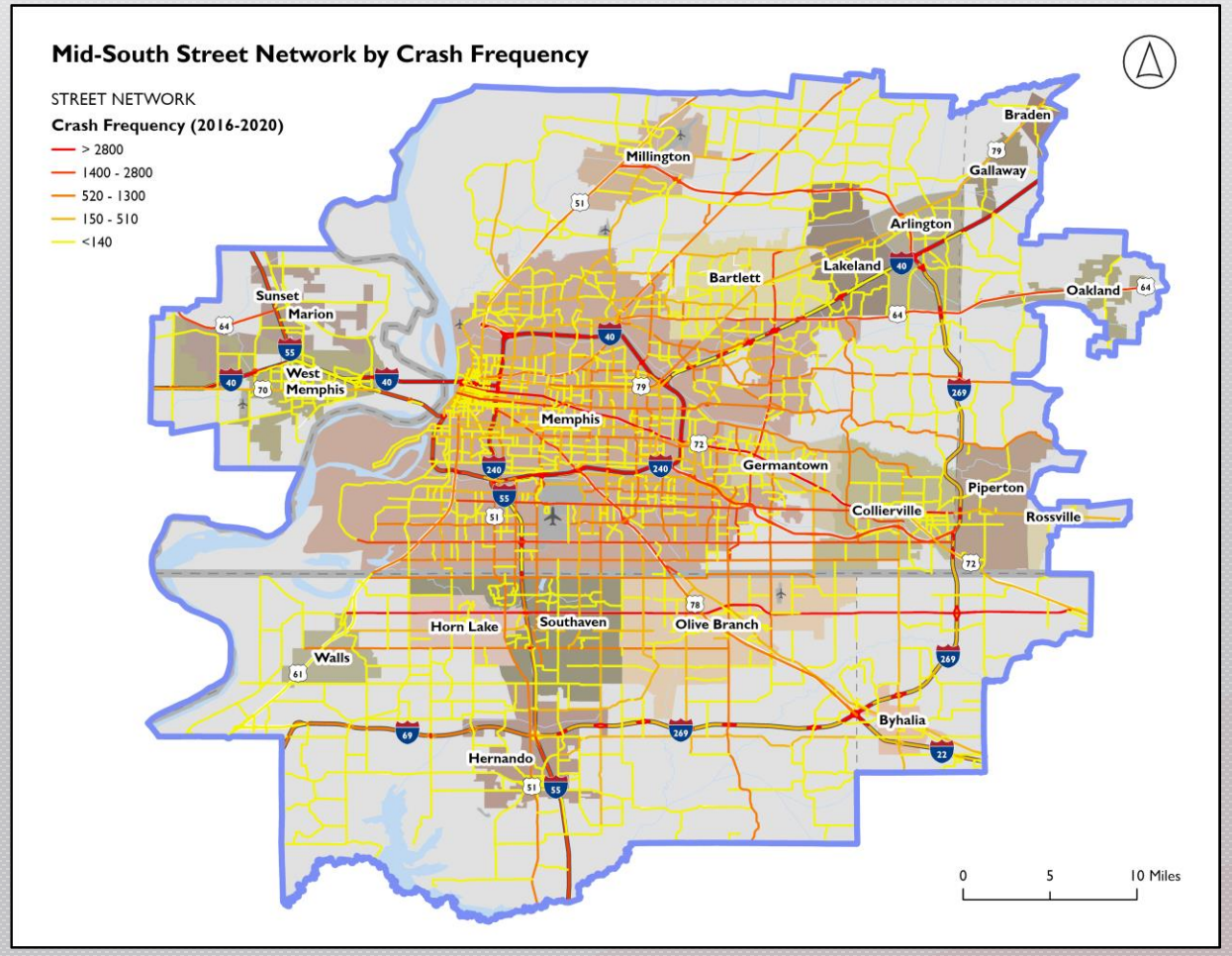
"Multiple areas around town have trees/shrubs/bushes blocking the view to safely enter traffic."

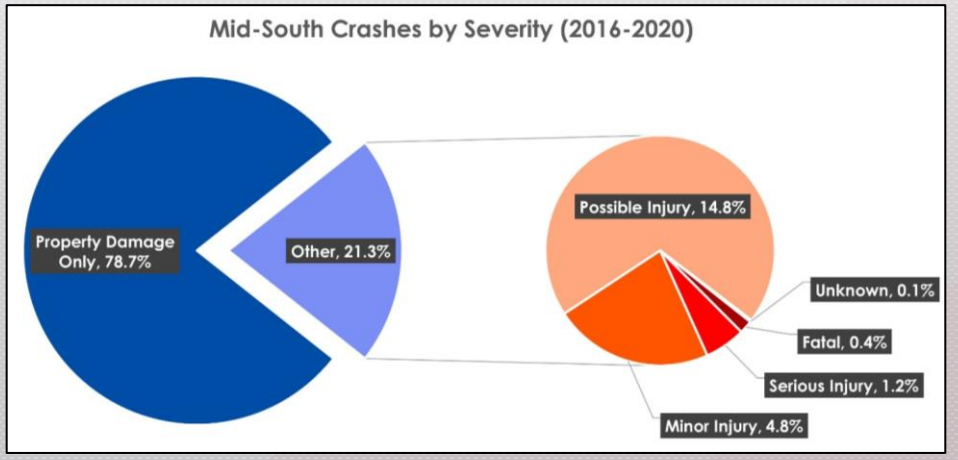
"Generally, more pedestrian path projects, roundabouts in strategic locations, and data-based investments."

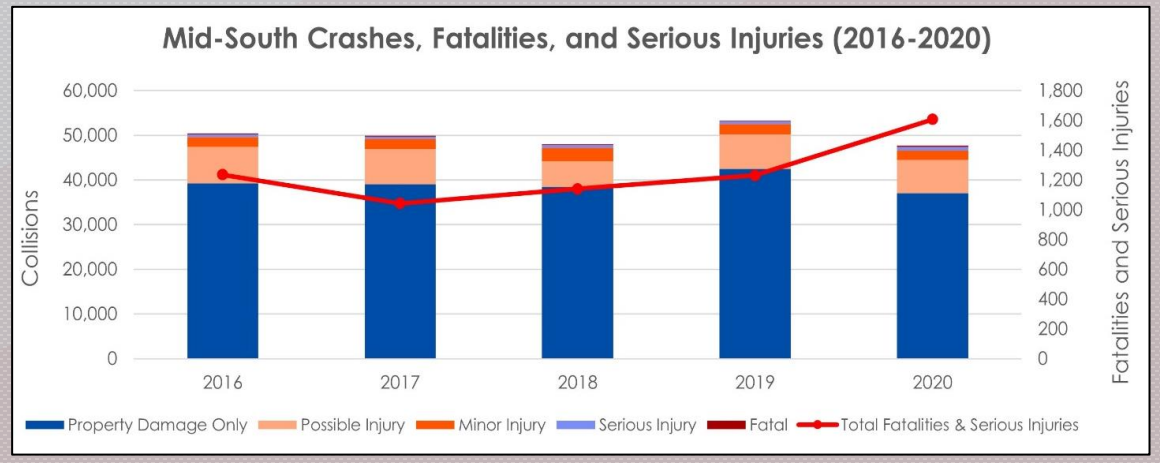
Q: Where can we improve road safety?



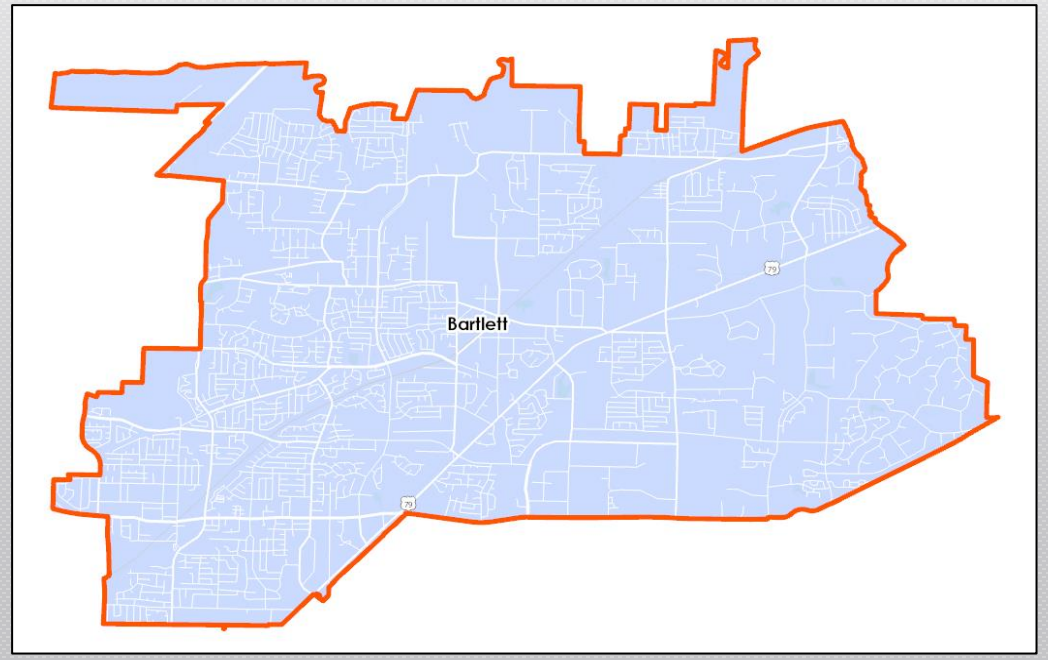
Safety Analysis – Regional Profile (TN, MS, AR)

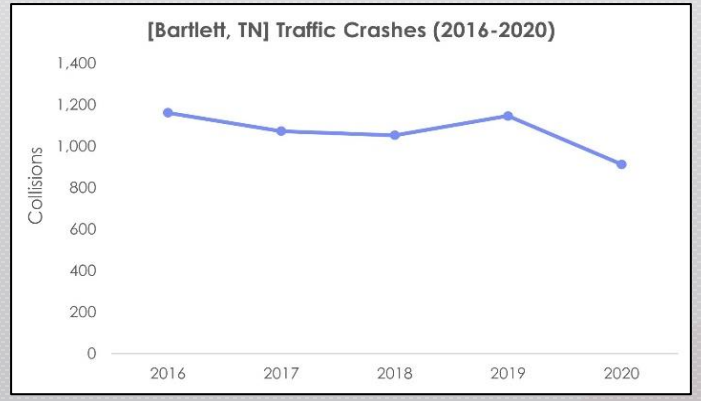


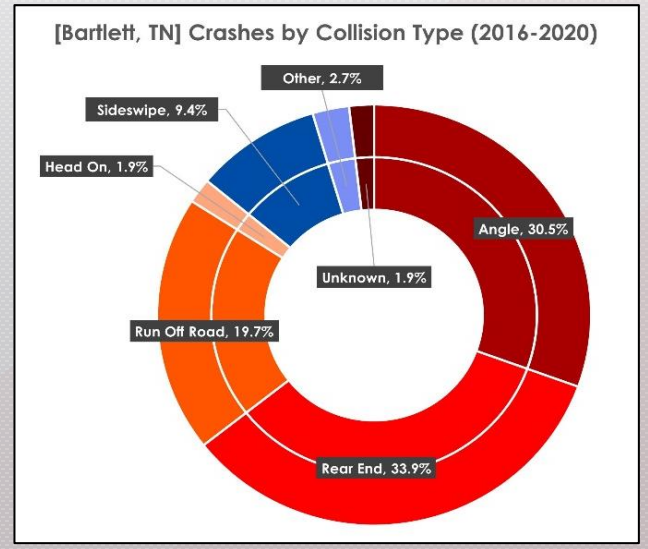




Safety Analysis – Local Profile (Sample)

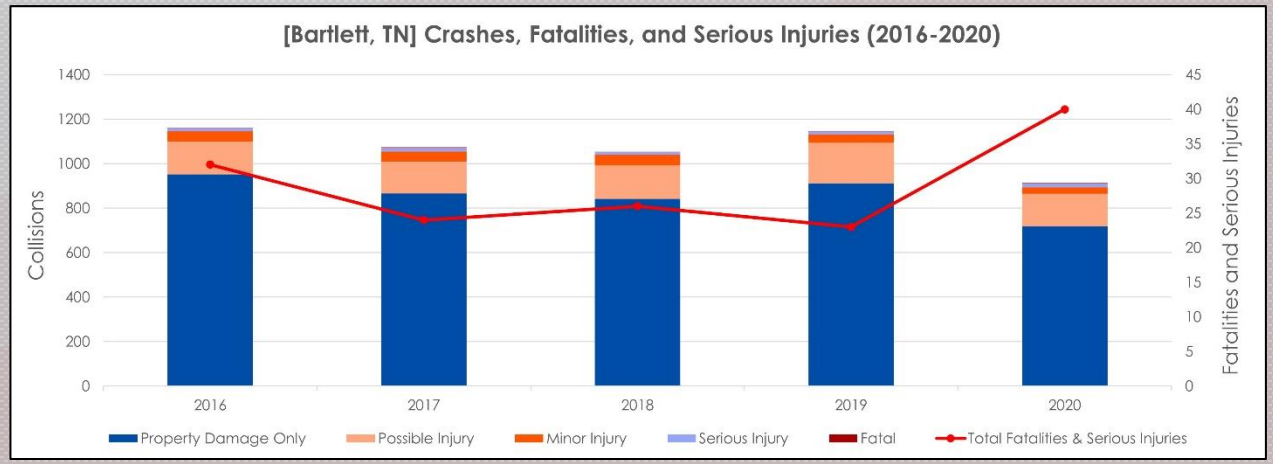






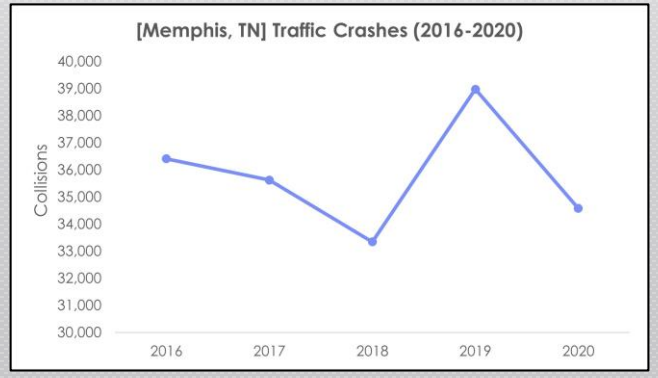
[Bartlett, TN] High Crash (Non-Interstate) Roadway Segments (2016-2020)

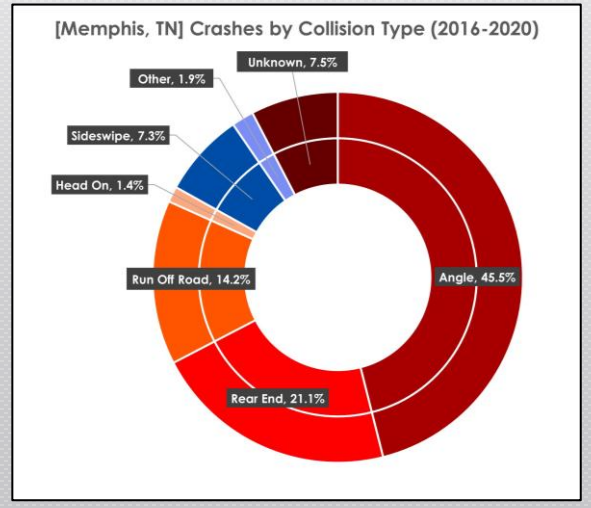
ROAD SEGMENT	LOCATION	CRASHES
Stage Road	East of Bartlett Boulevard	115
Stage Road	East of Elmore Park Road	57
Kirby Whitten Road	North of Stage Road	55
Stage Road	West of Sycamore View Road	48
Stage Road	Kirby Whitten Rd to Whitten Road	38

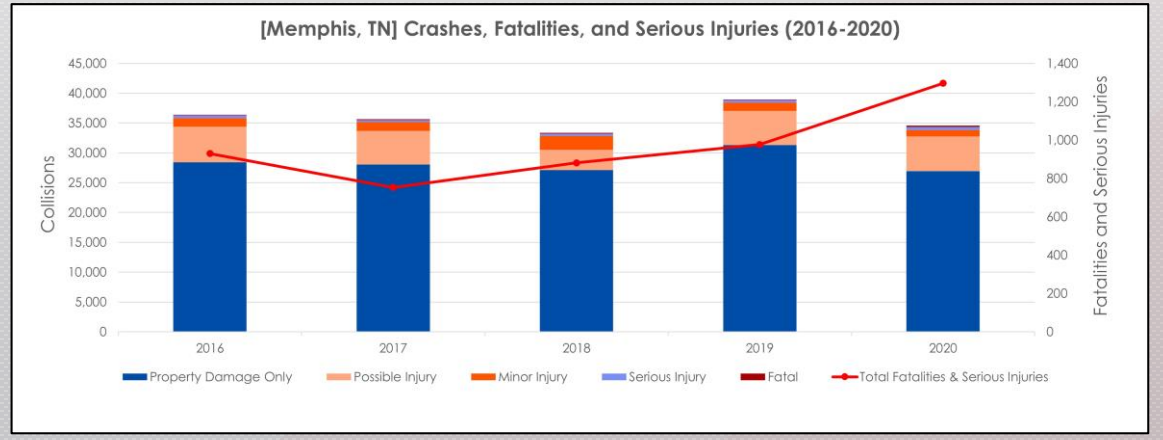


Safety Analysis – Local Profiles (Urban)

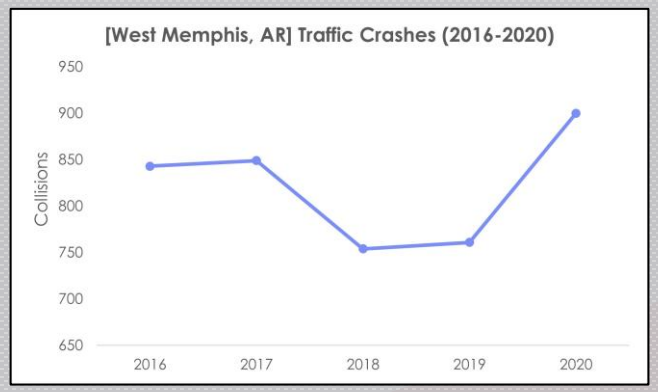
Memphis, TN

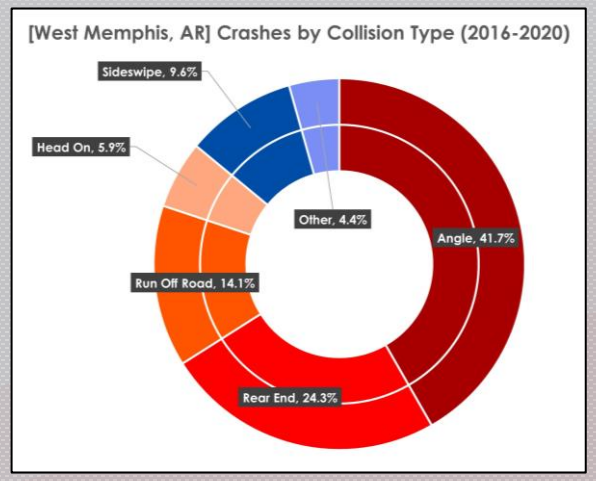


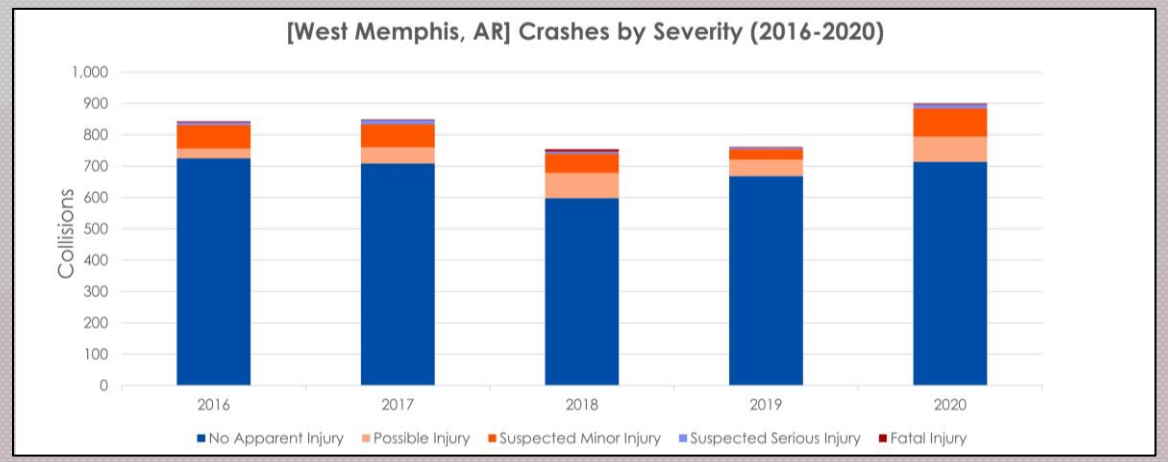




West Memphis, AR

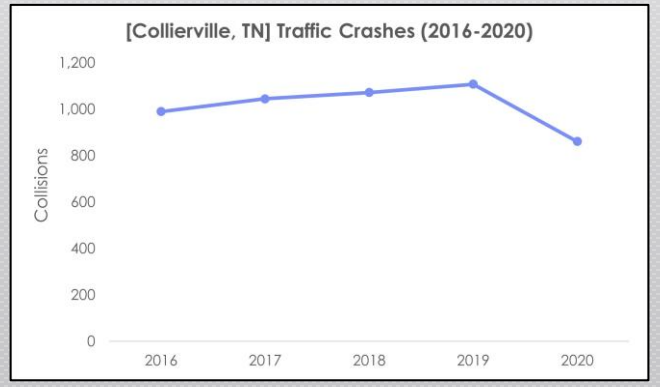


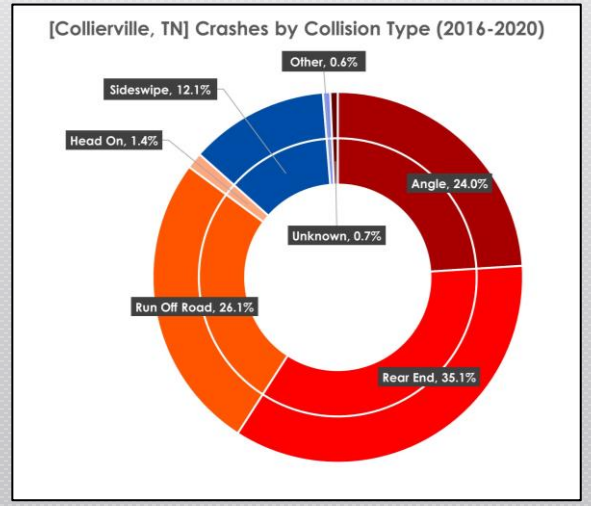


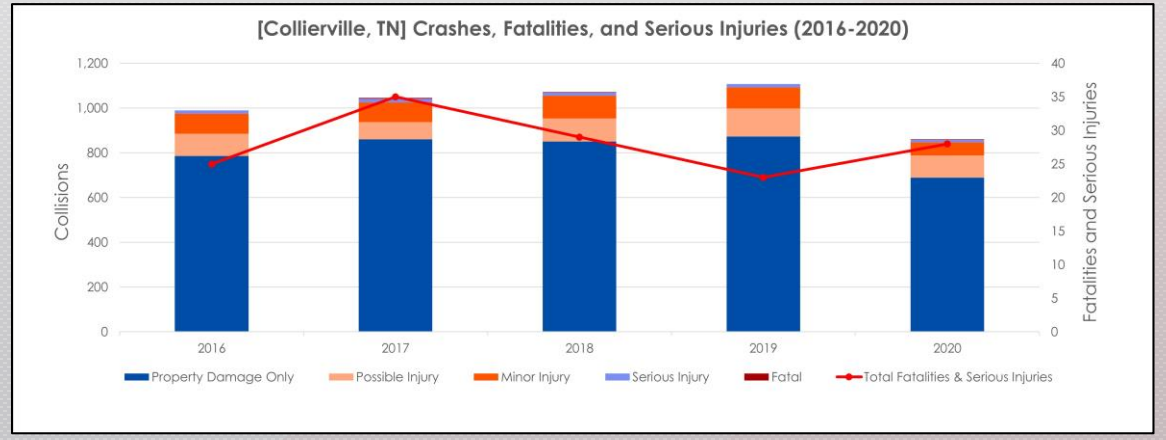


Safety Analysis – Local Profiles (Suburban)

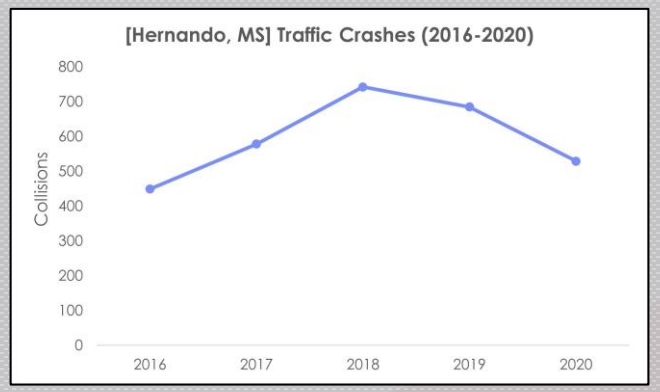
Collierville, TN

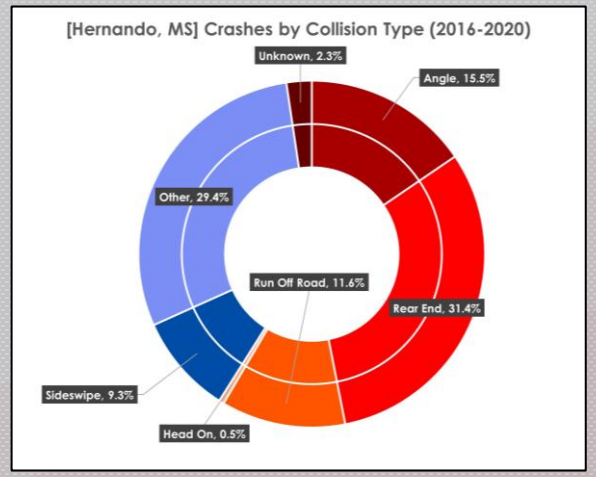


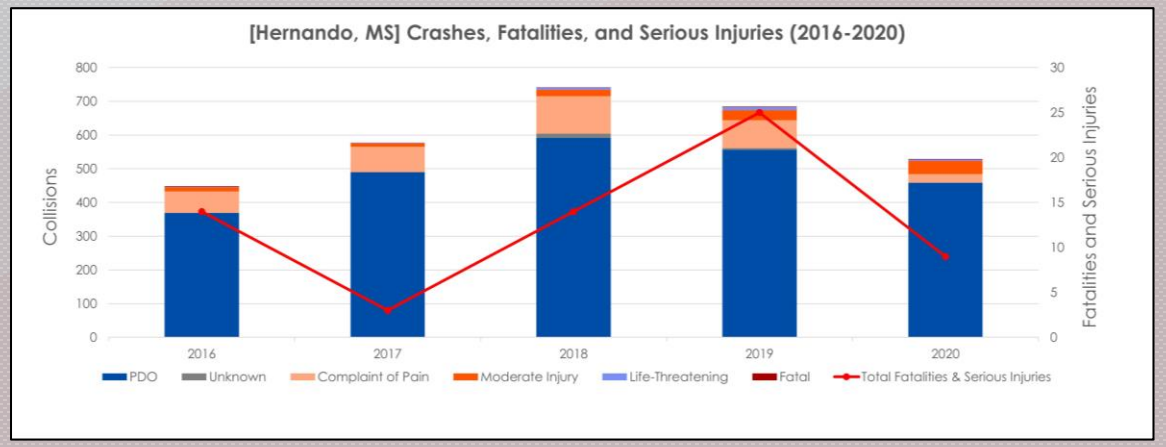




Hernando, MS

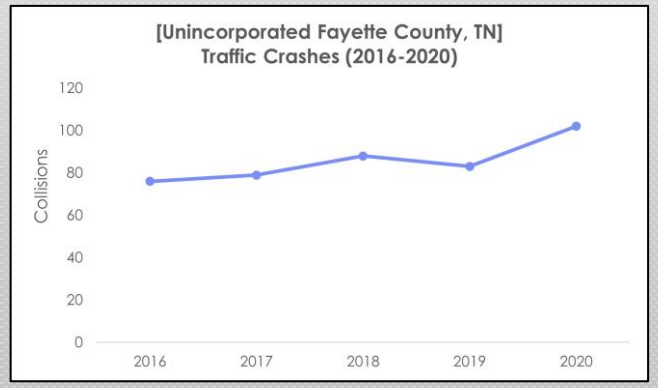


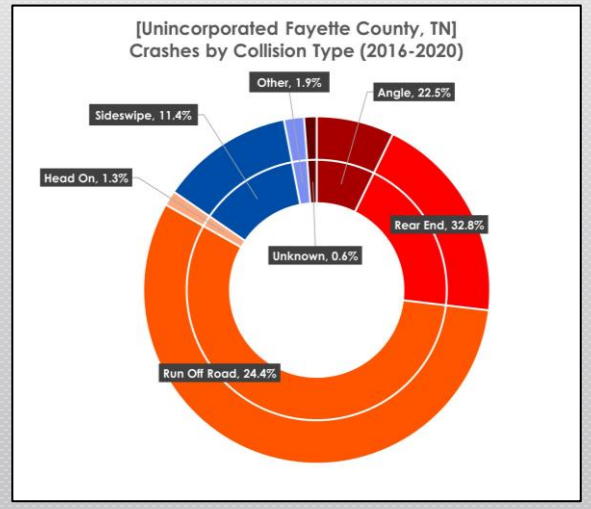


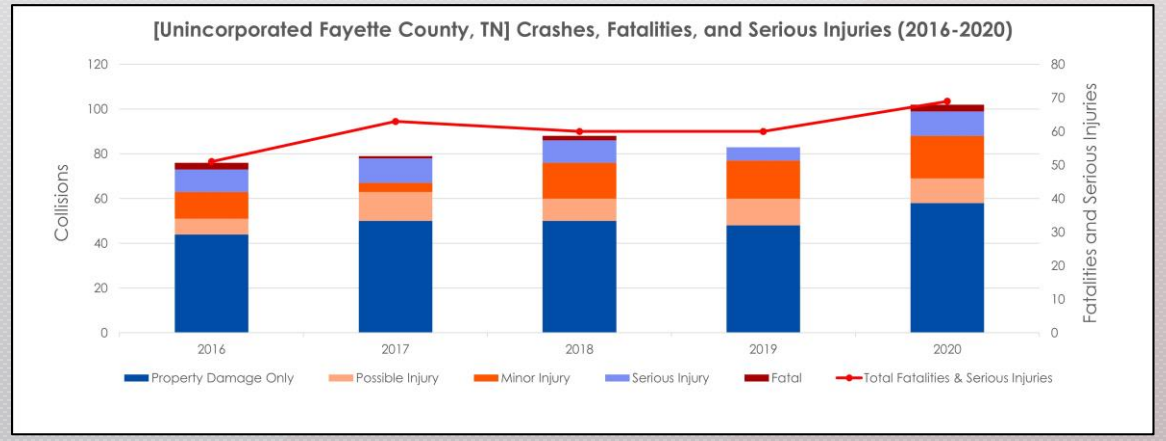


Safety Analysis – Local Profiles (Rural)

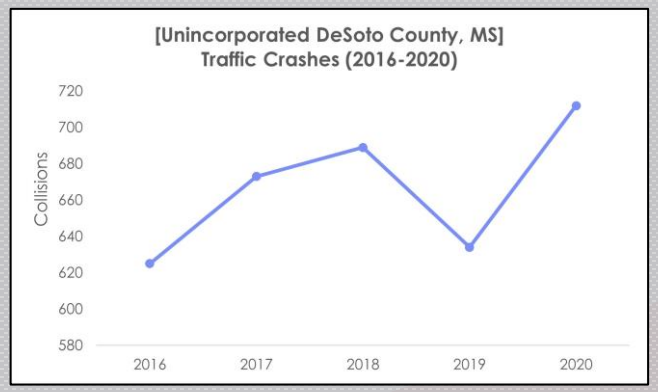
Fayette County, TN

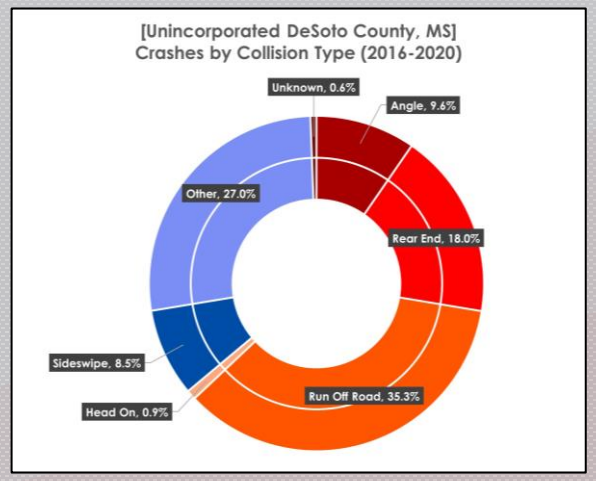


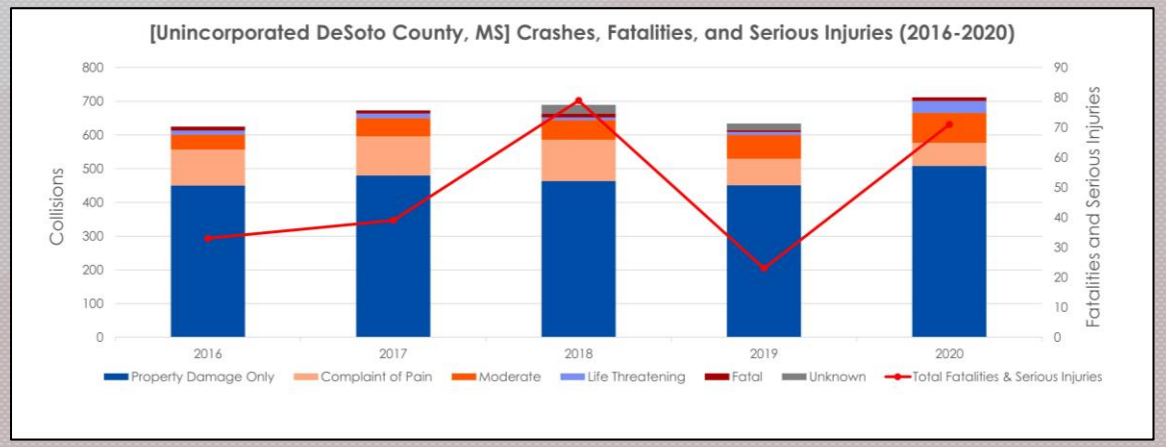




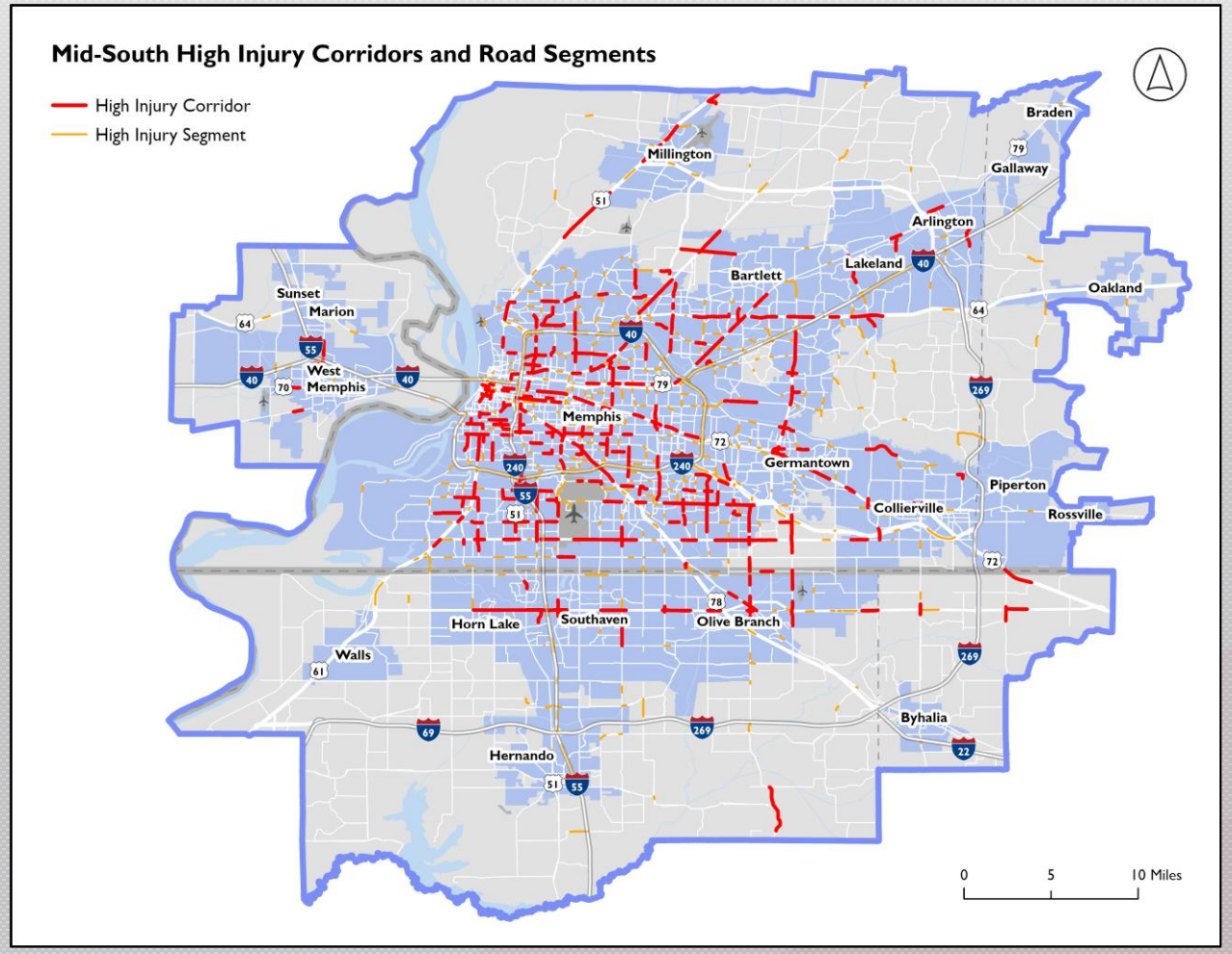
DeSoto County, MS





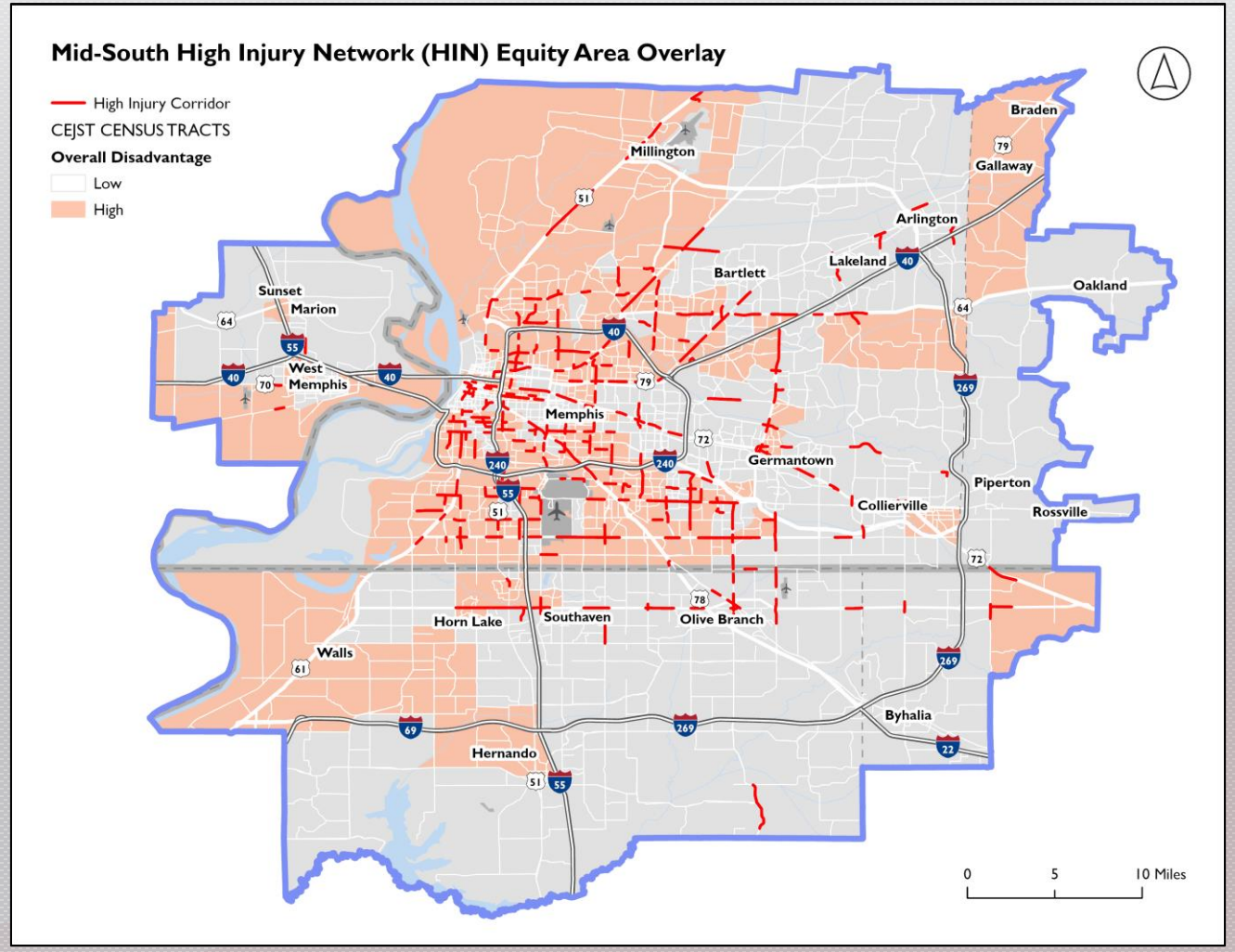


Safety Analysis – High Injury Network (HIN)



MPO JURISDICTION	HIN MILES	HIN CRASHES	HIN KSI CRASHES
Arlington	2.06	24	4
Bartlett	8.71	692	32
Collierville	6.53	745	18
DeSoto County	3.42	77	9
Germantown	5.87	1,056	20
Horn Lake	5.64	1,988	15
Lakeland	2.60	71	6
Marshall County	2.39	27	8
Memphis	138.82	19,595	783
Millington	6.04	427	27
Olive Branch	8.68	1,300	27
Piperton	1.50	39	2
Shelby County	4.69	435	21
Southaven	3.56	758	8
West Memphis	3.97	256	16
HIN Total	**204.48**	**27,490**	**996**
Non-Interstate Share (%)	**7.9%**	**33.8%**	**58.1%**

Safety Analysis – Equity Overlay



Plan Recommendations

- **Strategies** provide a general framework for improving safety outcomes throughout the transportation network
- **Countermeasures** are traffic safety programs designed to address specific types of traffic crashes
- **Actions** complement strategies and countermeasures
  - **Action Items** are implementable activities that support a broader safety strategy or goal

Plan Recommendations (Examples)

- **Strategies**
  - Redesign Unsafe Intersections
  - Develop & Expand Outreach Campaigns
  - Improve Signage, Markings, & Lighting
- **Countermeasures**
  - Guardrails
  - Medians and Pedestrian Crossing Islands
  - Dedicated Left- and Right-Turn Lanes at Intersections
- **Actions**
  - Develop a [local] Safety Action Plan
  - Establish a quick-build improvement program
  - Provide crash data collection training to law enforcement officers

Safe Streets and Roads for All (SS4A)

- **Available Funding**
  - $5 Billion over 5 years (2022-2026) for regional and local safety initiatives
  - FY 2023 Application Deadline – July 10, 2023
- **Eligible Entities**
  - Metropolitan planning organizations (MPOs)
  - Counties, cities, towns, transit agencies, and other political subdivisions of a State
- **Grant Types**
  - Planning and Demonstration Grants
    - Can be used by communities to develop or complete an Action Plan, conduct supplemental planning and/or demonstration activities that will inform the development of an Action Plan
  - Implementation Grants
    - Can be used by communities to fund: projects and strategies identified in an Action Plan that address roadway safety problems; planning, design, and development activities for projects and strategies identified in an Action Plan; supplemental planning and/or demonstration activities described above

HOW TO USE THIS PLAN

Strategies, Countermeasures, and Action Items can be used as a guide in the selection, development, and evaluation of local road safety plans, programs, projects, and/or policy changes.

A project will be considered consistent with the Mid-South SAP if it falls into **at least one** of the following categories:

1. Project advances 1+ Safety Goal or Strategy
2. Project applies 1+ Countermeasure or Action Item
3. Project proposes infrastructure improvements or programmatic interventions along a designated High Injury Corridor or within an Equity Area

Future Needs Assessment

- **Plan Updates**
  - Every 5 to 7 years, in accordance with MPO RTP and TIP Update, Amendment, and Modification cycles
- **Progress Monitoring and Tracking**
  - Mid-South Safety Action Report (Annual)
  - Additional safety plans and studies encouraged
- **Additional Resources**
  - Implementation Guidance
  - SS4A Grant Program Guidance
  - Safe System Approach and TDZ Guidance
  - State DOT Safety webpages (TN, MS, and AR)

WEST MEMPHIS AREA MPO
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METROPOLITAN PLANNING ORGANIZATION

For more information…

Memphis MPO SAP Webpage

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