



#### D4 Enhancing Safety Culture: A Multidisciplinary Approach Through Traffic Safety Collaboration

Amy Lee Diel, D4 Safety PIO-Consultant
Yujing "Tracey" Xie, P.E., Traffic Safety Program Engineer
Thomas Miller, Traffic Safety Specialist IV



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#### **D4 Enhancing Safety Culture**

#### **Building a United Safety Culture**

- Open Communication: Cross-training and transparent dialogue
- Collaboration: Teams unite to share knowledge and tackle safety together
- Unified Vision: Clear goals, shared purpose across all roles
- Psychological Safety: Speak up culture without fear
- Benefits: Better safety, higher efficiency, stronger team morale

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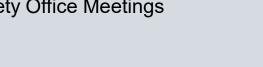




Internal Collaboration - One D4 **District Safety Team District Safety Team (Safety Steering Committee)** D4 Safety Administrator: Katie Kehres Core Team Members per Unit Representing: **Safety** Yujing (Tracey) Xie **Planning Modal Development** Traffic Operations/TMC Maintenance Geysa Sosa Daniel Smith Yanique Kelly Lennox Ballah Trang Phan David Zeller Rick Peterson Program Construction Design Brad Salisbury Aaron Watt Management TRANSPORTATION SYMPOSIUM Robert Lopes Christopher Comprosky

#### Internal Collaboration/Innovations - One D4

- Safety Academy Pilot Program
- Rotations
- PE Trainees
- Desktop Safety monthly
- Monthly D4 Town Hall
- Safety Team meetings/TZ Meetings/Safety Office Meetings
- Proactive RSAs
- Data sharing and coordinated studies
- Outreach TZ/Safety/Education



INNOVATIONS

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#### External Collaboration - One D4

- Stakeholder Outreach & Engagement, Community Partners
- Data Sharing
  - Modal Viewer (D4) D4 Modal Viewer
  - Safety Data Integration Space (Internal/External) SDIS Public Link
- Support for Vision Zero: Local Road Safety Program and SS4A efforts - Tracey
- Safe Routes to School partnerships/Road Safety Audits Tom

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# FDOT District 4's Approach to Addressing Road User Safety FDOT is focused on systematic, collaborative, data-driven and sustainable enhancement to road user safety. Collaboration is one of the key components of the

Collaborative

Innovative

Départment's safety programs involving local governmental stakeholders.

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### FDOT's Compass- Road User Safety and Communities Collaboration

FHWA identifies that developing a Local Road Safety Plan (LRSP) is an effective strategy to improve local road safety.

- >Stakeholder engagement representing the 4E's: engineering, enforcement, education, and engagement.
- Collaboration among municipal, county, Tribal, State, and/or Federal entities.
- >Identification of target crash types and crash risk with corresponding safety countermeasures.
- Timeline and goals for implementation and evaluation.



LOCAL ROAD SAFETY PLANS

FDOT District 4's Local Road Safety Program is aligned with the objectives of the FHWA and FDOT's Compass

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#### State Highway System vs Non-State Roadway **System**

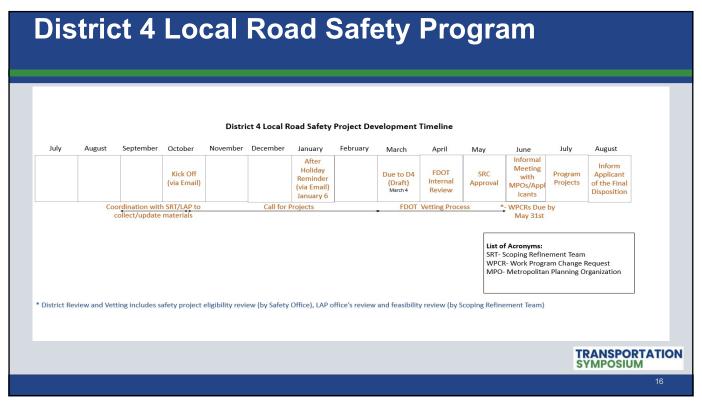


- Approx. 43% of the total serious injuries in D4 on Local Roads
- Approx. 38% of the total fatalities in D4 on Local Roads

Data shown above are average values for the three-year period between 2022 and 2024 based on Signal 4 Analytics data

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#### **District 4 Local Road Safety Program**

- Number of Local Road Safety Projects Programmed/Implemented currently = 5 projects
- Number of candidate local road safety projects for the upcoming FY 26 gaming = 3 projects
- Total Safety funds programmed currently for local road safety projects = Approx. \$4M
- · Local agencies collaborated with currently:
  - Palm Beach County TPA
  - Palm Beach County
  - City of Boca Raton
  - City of Coral Springs







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#### **Project Selection Criteria**

- ➤ Safety Funding Eligibility Benefit Cost Ratio (>=2.0)
- ➤ Prioritization Criteria Net Present Value (high to low)
- ➤ Address Vital Few Emphasis Areas:
  - Lane Departure
  - Pedestrian/Bicycle
  - Intersection

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# FDOT's Support to USDOT's Safe Streets and Roads for All (SS4A) Grant Program

- USDOT's SS4A \$5 billion over 5 years, 2022-2026.
- The program funds regional, local, and Tribal initiatives through grants to prevent roadway fatalities and serious injuries.
- Combining the FY22-24 awards, SS4A has provided \$2.9 billion to over 1,600 communities in all 50 States and Puerto Rico.

 The SS4A program provides funding for two main types of grants: Planning and Demonstration Grants and Implementation Grants.



U.S. Department of Transportation

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# FDOT's Support to USDOT's Safe Streets and Roads for All (SS4A) Grant Program

#### Local governmental agencies within FDOT District 4's jurisdiction



Port St. Lucie

West Palm
Beach

Boca Raton
Coral Springs

Hollywood



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Currently, DSO is a key stakeholder with Broward MPO, Village of Palm Springs, City of Greenacres, and City of Fort Pierce

Key activities by the DSO:

- >Review safety action plans
- >Work in the sub-committees for the targeted crash types
- >Attend and participate in the safety meetings/presentations
- ➤ Perform safety studies

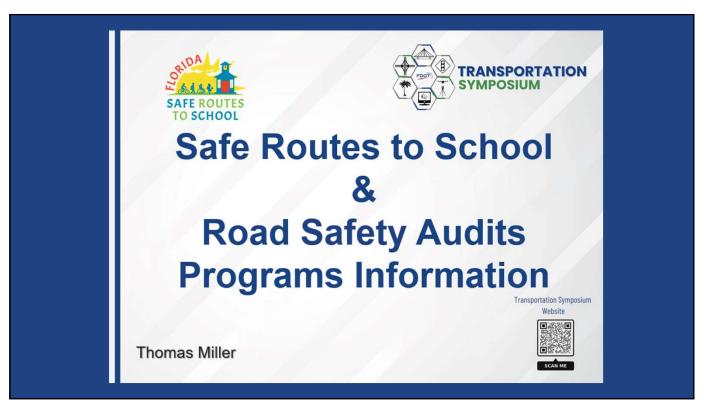








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#### **Program Information**



Avant Garde Academy of Broward, Hollywood, FL Pre-Construction (12-22-2016)



Avant Garde Academy of Broward, Hollywood, FL Post-Construction (07-24-2024)

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#### Florida Safe Routes to School

#### The Goal of the Program

The goal is to get more children walking and bicycling where it is safe, and to fix the conditions where it is not safe.

• Engineering/Infrastructure Projects - infrastructure

The opportunity to safely walk and bike to school offers a solution to concerns such as

- Traffic Safety
- Traffic Congestion
- Transportation Costs and Bussing Issues
- · Lack of Physical Activity
- · Building Independence and Lifelong Skills

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#### **Understanding the Process**

- 1. Bring together the right people
- 2. Gather information and identify issues
- 3. Identify solutions
- 4. Develop a plan
- 5. Fund the plan
- 6. Act on the plan
- 7. Evaluate, make changes and keep moving

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#### Florida Safe Routes to School

#### **Project and Funding Requirements**

Funds are available for the construction of infrastructure-related projects only.

- The engineering department of the entity that will administer project construction must be able to be Local Agency Program (LAP) projectspecific certified.
- If the applicant is seeking FDOT to design and administer the project, preliminary application materials must be submitted to the District a minimum of 6 weeks before the application deadline for full vetting and concurrence.

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#### Florida's SRTS Application

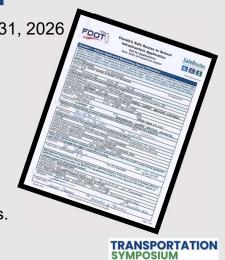
Next call for Applications September 1, 2025 – January 31, 2026

Eligible Applicants are Kindergarten through 12<sup>th</sup> grade schools or any school that has several of those grades.

Eligible Maintaining Agencies are:

- FDOT
- Counties
- Cities

Applicants are encouraged to engage other partnerships.



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#### Florida Safe Routes to School

#### **Keys to Success**

- Organize your committee
- Gather your Student Travel Data
- Start your application process early
- Review your application with FDOT midway through the process
- Make sure you submit all the items listed in the Submission checklist so that you get as many points as possible.

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#### Safe Routes to School Website Information

- · Basic Program Information
- Application Guidelines
- SRTS Updates

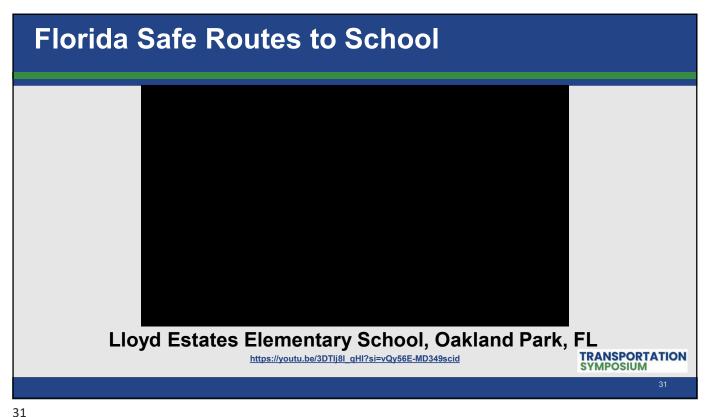
- SRTS Home
- Website Resources List
- · Guardians of Roadway Safety

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#### **Road Safety Audits**

#### What is a Road Safety Audit (RSA)?

- A Road Safety Audit (RSA) is a formal safety performance examination of an existing or future road or intersection by an independent audit team.
- The RSA team considers the safety of all road users, qualitatively estimates and reports on road safety issues and opportunities for safety improvement.

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#### **Road Safety Audits**

#### **Road Safety Audit (RSA)**

- · Conducted by an independent and multidisciplinary team
- Receive input from stakeholders (Locals)
- · Works with State and Local jurisdictions
- Focus on short-term, low-cost recommendations, not necessarily based on crash history, but also on existing conditions, best practices, and input from stakeholders
- May recommend additional studies
- · Proactive approach to safety
- · Considers all roadway users and user behavior
- Generates formal reports and responses

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#### **Road Safety Audits**

#### **Outcomes of an RSA**

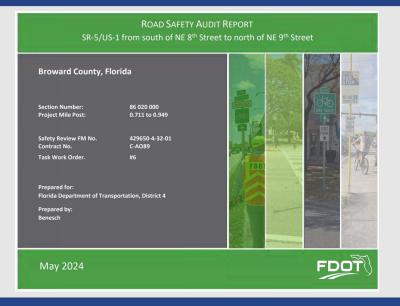
- · Identification of potential road safety issues
- Recommendations for improvements to enhance safety for all road users
- A formal RSA report that documents findings and suggestions for mitigating identified safety concerns
- Implementation plan developed by FDOT

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#### **Road Safety Audits**



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#### **Road Safety Audits**



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#### **Road Safety Audits**

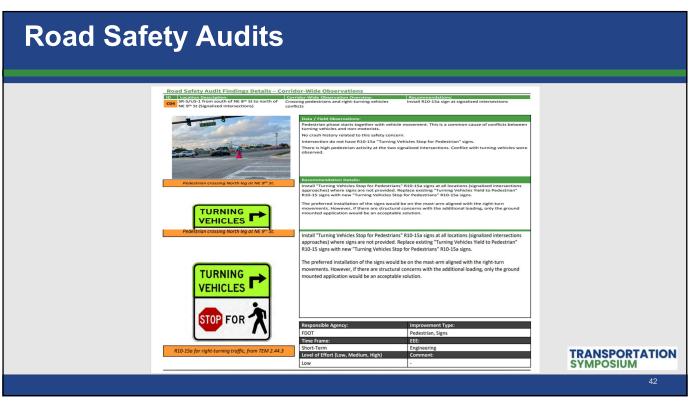
Number	Collision No.	Date	Crash Type	Injury Severity	Lighting, Road Conditions	Summary	
86748744	60	11/27/2016	sideswipe	Incapacitating	Sunday, 2:58 AM, Dark- Lighted, Dry	V1 (motorcycle) NB was driving reckless weaving among traffic sideswiped V2 also NB.	
86750767	10	2/3/2017	Hit Fixed Object	Incapacitating	Friday, 5:04 PM, Daylight, Dry	V1 NB for unknow reason drifted to the left and hit the curb and traffic signal pole.	
87763205	20	2/23/2018	Pedestrian	Fatal	Friday, 10:25 PM, Dark- Lighted, Wet	V1 SB approaching NE 8 <sup>th</sup> St on green light hit a pedestrian crossing in the crosswalk with the Don't Walk phase.	
87766050	24	5/23/2018	Hit Fixed Object	Incapacitating	Wednesday, 8:55 AM, Daylight, Dry	V1 NB made a u-turn on red light then losing control and hitting a utility pole.	
88939172	31	6/4/2019	left-turn	Incapacitating	Tuesday, 11:51 AM, Daylight, Dry	V1 SB attempted a left turn into the path of V2 NB.	
88939616	32	6/19/2019	angle	Incapacitating	Wednesday, 9:00 AM, Daylight, Dry	V1 EB attempted a left turn and was hit by V2 SB.	
24267652	45	5/9/2021	Bike	Fatal	Sunday, 4:50 AM, Dark- Lighted, Dry	B1 was crossing US-1 in unknown direction when hit by V1 traveling SB on NB lanes (WWD). V1 driver suspected DUI.	
25081800	49	2/27/2022	Hit Fixed Object	Fatal	Sunday, 6:58 AM, Daylight, Dry	V1 SB negotiating the curve at high speed rate, left roadway into sidewalk hitting curb, bus bench and a pedestrian (fatality).	
25551478	56	3/11/2023	angle	Incapacitating	Saturday, 6:30 PM, Dusk, Dry	V1 apparently EB was hit by V2 SB.	
					Day, Time.		
HSMV Report Number	Collision No.	Date	Crash Type	Injury Severity	Day, Time, Lighting, Road Conditions	Summary	
		Date 11/27/2016	Crash Type		Lighting, Road	V1 (motorcycle) NB was driving reckless weaving among traffic sideswiped V2 also NB.	
Number	No.			Severity	Lighting, Road Conditions Sunday, 2:58 AM, Dark-	V1 (motorcycle) NB was driving reckless weaving among traffic sideswiped V2 also NB.  80 for unknow reason drifted to the left and hit the curb and traffic signal pole.	
Number 86748744	No. 60	11/27/2016	sideswipe Hit Fixed	Severity	Lighting, Road Conditions Sunday, 2:58 AM, Dark- Lighted, Dry Friday, 5:04 PM, Daylight,	V1 (motorcycle) NB was driving reckless weaving among traffic sideswiped V2 also NB. V1 NB for unknow reason drifted to the left and hit the curb and traffic signal	
86748744 86750767	60 10	11/27/2016	sideswipe Hit Fixed Object	Severity Incapacitating Incapacitating	Lighting, Road Conditions Sunday, 2:58 AM, Dark- Lighted, Dry Friday, 5:04 PM, Daylight, Dry Friday, 10:25 PM, Dark-	V1 (motorcycle) NB was driving reckless weaving among traffic sideswiped V2 also NB. V1 NB for unknow reason drifted to the V1 NB for unknow reason drifted to the curb and traffic signal pole. V1 SB approaching NE 8 <sup>th</sup> St on green light hit a pedestrian crossing in the	
86748744 86750767 87763205	10 20	11/27/2016 2/3/2017 2/23/2018	sideswipe  Hit Fixed Object  Pedestrian  Hit Fixed	Incapacitating Incapacitating Fatal	Lighting, Road Conditions Sunday, 2:58 AM, Dark- Lighted, Dry Friday, 5:04 PM, Daylight, Dry Friday, 10:25 PM, Dark- Lighted, Wet Wednesday, 8:55 AM,	Y (motorcycle) NB was driving reckless weaving among traffic idleswiped V2 also NB. V1 NB for unknow reason drifted to the left and hit the curb and traffic signal V1 SB approaching NE 89" St on green light hit a pedestrian crossing in the V1 NB made a u-turn on red light then	
86748744 86750767 87763205 87766050	10 20 24	11/27/2016 2/3/2017 2/23/2018 5/23/2018	sideswipe  Hit Fixed Object  Pedestrian  Hit Fixed Object	Incapacitating Incapacitating Fatal Incapacitating	Lighting, Road Conditions Sunday, 2:58 AM, Dark- Lighted, Dry Friday, 5:04 PM, Daylight, Dry Friday, 10:25 PM, Dark- Lighted, Wet Wednesday, 8:55 AM, Daylight, Dry Tuesday, 11:51 AM,	VI (motorcycle) NB was driving reckless washing among traffic idleswiped V2 also NB. VI NB for unknow reason drifted to the left and hit the curb and traffic signal VI SB approaching NE 88° St on green light hit a pedestrian crossing in the crosswalk with the Don't Walk phase. For the value of VI SB approaching NE and VI SB approaching NE and VI SB attempted a left turn into the path of V2 NB.	
86748744 86750767 87763205 87766050 88939172	No. 60 10 20 24 31	11/27/2016 2/3/2017 2/23/2018 5/23/2018 6/4/2019	sideswipe Hit Fixed Object Pedestrian Hit Fixed Object left-turn	Incapacitating Incapacitating Fatal Incapacitating Incapacitating	Lighting, Road Conditions Sunday, 2:58 AM, Dark- Lighted, Dry Friday, 5:04 PM, Daylight, Dry Friday, 10:25 PM, Dark- Lighted, Wet Wednesday, 8:55 AM, Daylight, Dry Tuesday, 11:53 AM, Wednesday, 9:00 AM,	V1 (motorcycle) NB was driving reckless weaving among traffic sideswiped V2 also Wasving among traffic sideswiped V2 also V1 NB for unknow reason drifted to the left and hit the curb and traffic signal pole. approaching NE 89" St on green light hit a pedestrian crossing in the crosswalk with the Don't Walk phase. V1 NB made a u-turn on red light then losing control and hitting a utility pole. V1 SB attempted a left turn into the path V1 SB attempted a left turn and was hit by V2 SB.  SI was crossing US-1 in unknown direction when hit by V1 traveling SB on direction when hit by V1 traveling SB on DUI.	
86748744 86750767 87763205 87766050 88939172 88939616	No. 60 10 20 24 31 32	11/27/2016 2/3/2017 2/23/2018 5/23/2018 6/4/2019 6/19/2019	sideswipe Hit Fixed Object Pedestrian Hit Fixed Object left-turn angle	Incapacitating Incapacitating Fatal Incapacitating Incapacitating Incapacitating	Lighting, Road Conditions Sunday, 2:58 AM, Dark- Lighted, Dry Friday, 5:04 PM, Daylight, Dry Friday, 10:25 PM, Dark- Lighted, Wet Wednesday, 8:55 AM, Daylight, Dry Wednesday, 9:00 AM, Daylight, Dry Wednesday, 9:00 AM, Daylight, Dry Sunday, 4:50 AM, Dark-	VI (motorcycle) NB was driving reckless wearing among traffic idleswiped V2 also NB. VI NB for unknow reason drifted to the left and hit the curb and traffic signal VI SB approaching NE 88" St on green light hit a pedestrian crossing in the light hit a pedestrian crossing in the light hit a pedestrian crossing in the VI NB made a u-turn on red light then losing control and hitting a utility pole. VI NB made a u-turn on red light then losing control and hitting a utility pole. VI SB attempted a left turn into the path VI SB attempted a left turn and was hit by V2 SB. SI was crossing US-1 in unknown. SI was crossing US-1 in unknown. SI lanes (WWD), VI driver suspected	TRANSPORTATIO

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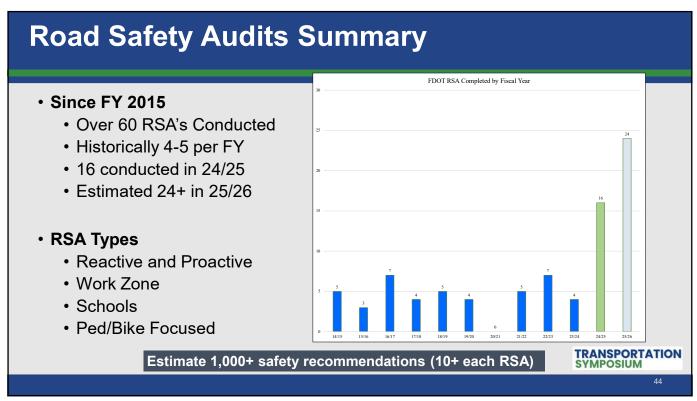


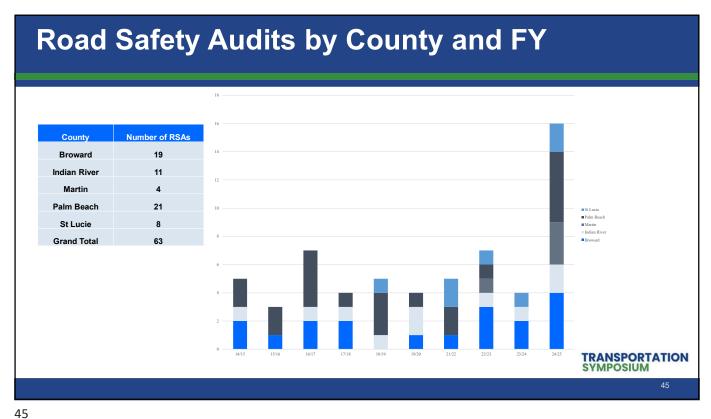


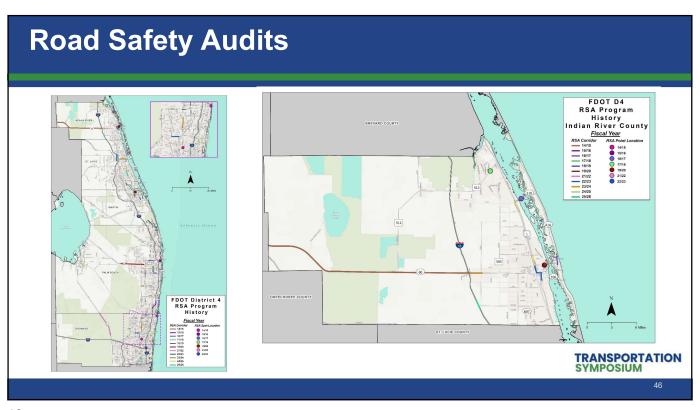




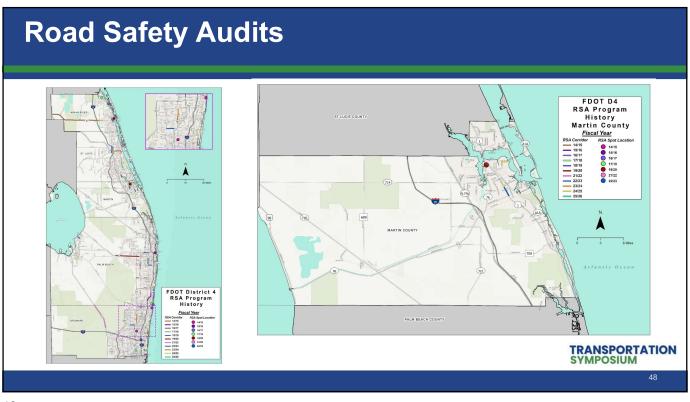
Roa	d Safety Audit Findings Su Location Description:	mmary Observations:	Recommendations:	Assigned To:				
C01	SR-5/US-1 from south of NE 8 <sup>th</sup> St to north of NE 9 <sup>th</sup> St	Missing backplates and Yellow Retroreflective Borders	Install flexible backplates and yellow retroreflective borders	FDOT/County				
C02	SR-5/US-1 from south of NE 8 <sup>th</sup> St to north of NE 9 <sup>th</sup> St	Existing standard Share Lane markings on US-1/SR-5	Install Green Sharrows	FDOT				
C03	SR-5/US-1 from south of NE 8 <sup>th</sup> St to north of NE 9 <sup>th</sup> St	High pedestrian activity at signalized intersections	Evaluate feasibility of providing Leading Pedestrian Intervals (LPI)	FDOT/County				
C04	SR-5/US-1 from south of NE 8 <sup>th</sup> St to north of NE 9 <sup>th</sup> St	Crossing pedestrians and right-turning vehicles conflicts	Install R-10-15a signs at signalized intersections	FDOT				
C05	SR-5/US-1 from south of NE 8 <sup>th</sup> St to north of NE 9 <sup>th</sup> St	Corridor lighting	Conduct lighting evaluation study	FDOT				
C06	SR-5/US-1 from south of NE 8 <sup>th</sup> St to north of NE 9 <sup>th</sup> St	Maintenance items	Resolve maintenance items accordingly	FDOT/City				



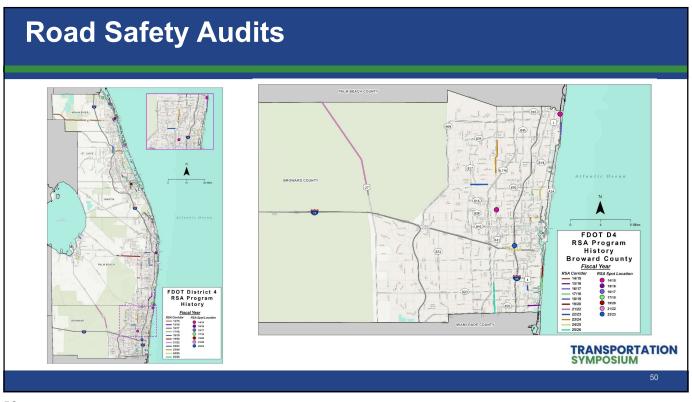


















Safety is not a department—it's a shared value. Let's embed it into everything we do



One Vision, One Team, Safer Roads for All

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Keep

**Partnerships** 

**Strong** 

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#### Call to Action – Zero is the ONLY Number – One FDOT



