Developing A Local Road Safety Plan for Your Parish? (FHWA has a DIY Site for That!)

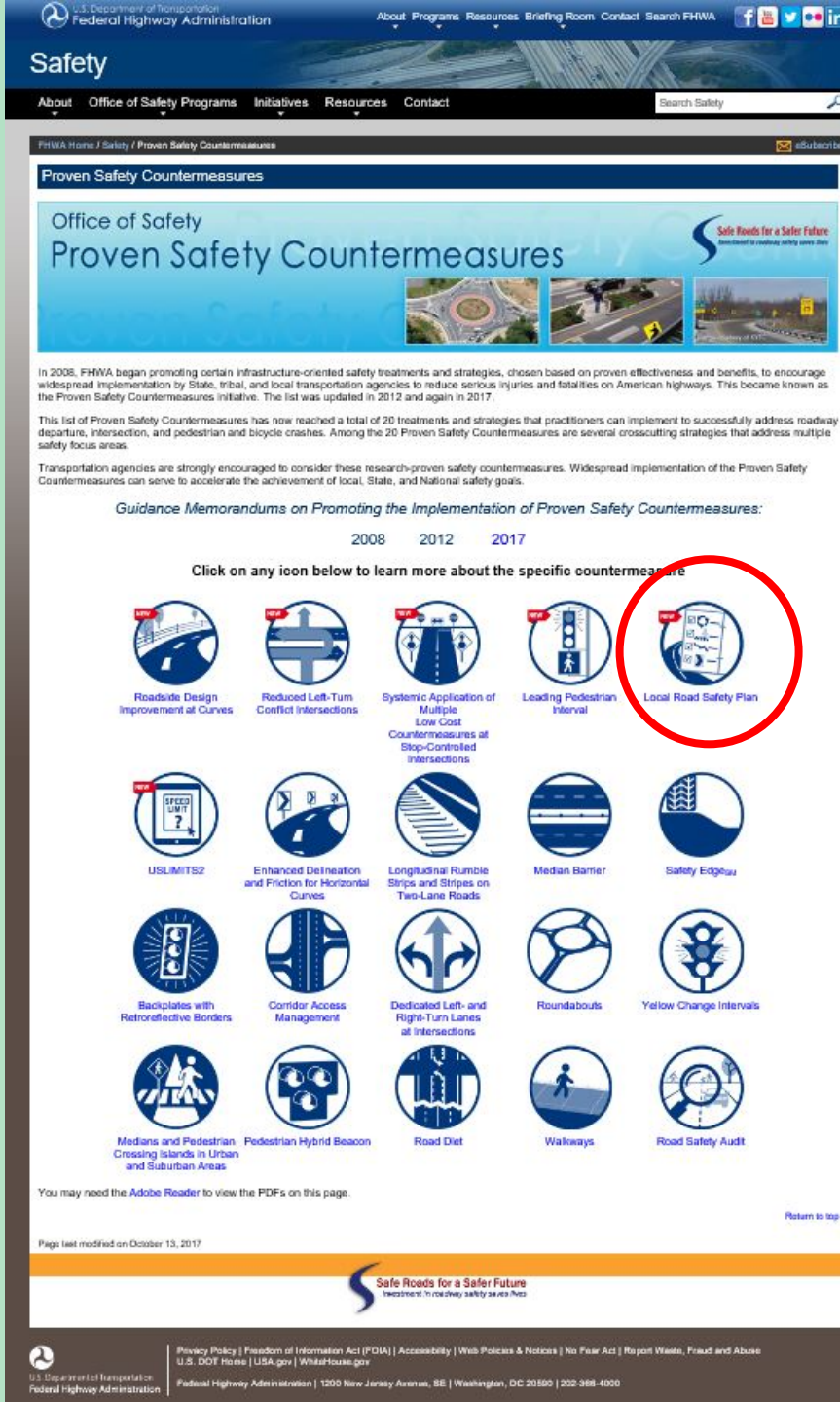
LPESA Spring 2021 Conference May 27, 2021

Leo Marretta, LTAP / Local Road Safety Program Manager

- What is a Local Road Safety Plan?
- Why should we make a Local Road Safety Plan?
- Who do I know that has a Local Road Safety Plan?
- How does my parish/municipality make a Local Road Safety Plan?

What is a Local Road Safety Plan?

- FHWA proven safety countermeasure
- Tool to improve safety on local roads
- Provides a framework to identify, analyze, and prioritize roadway safety improvements on local roads



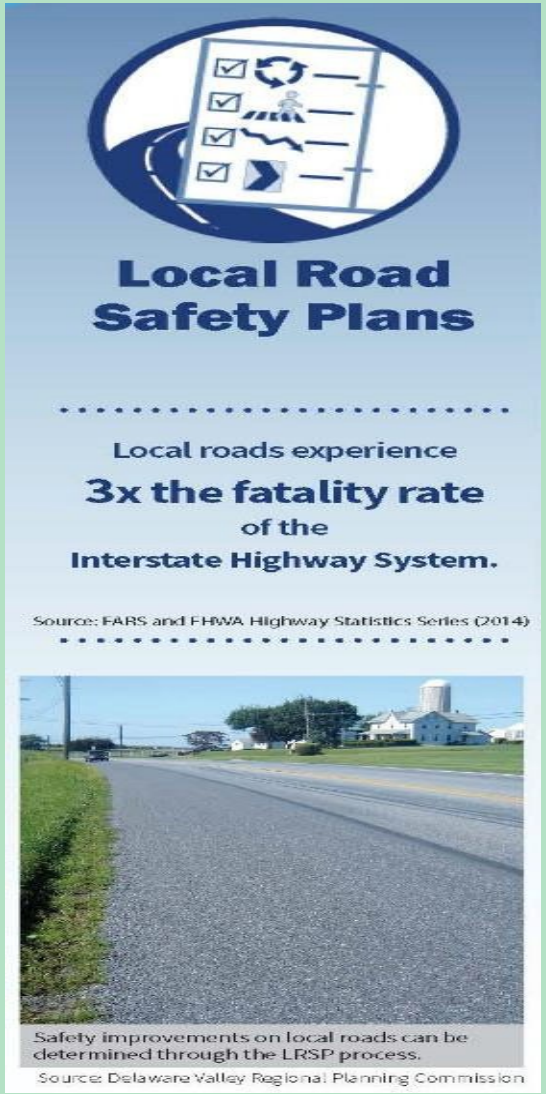
Why make a Local Road Safety Plan?

In Louisiana,

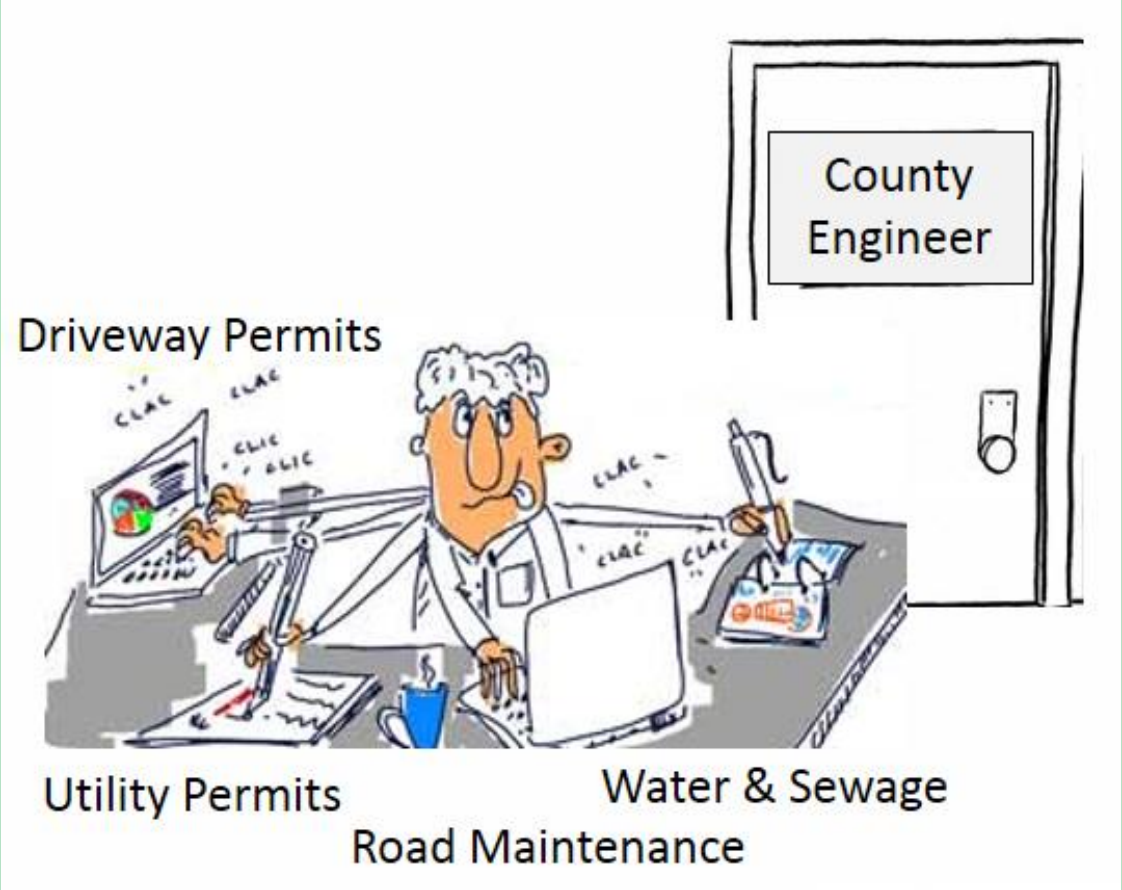
- 45,000 miles
  75% of all roads in Louisiana are owned & maintained by local agencies

- An average of 146 deaths occur on locally owned roadways each year. That's 40% of all cashes statewide.

- It's a proven safety countermeasure



Given everything else I have to do… why would my Parish or Municipality want me to create a Local Road Safety Plan?



A Local Road Safety Plan can help to …

- Reduce all crashes – any crash can turn deadly if bad behavior is involved
- Provide a risk based, data driven and systemic approach to improving safety on local roadways
- Incorporate safety into routine business (maintenance, capital improvements)
- Develop of lasting partnerships at the parish level (4 E's)
- Leverage funding opportunities
- Is defensible, providing transparency in prioritization of projects
- Survives changes of parish administrations and loss of institutional knowledge by retirement and attrition

Who do I know that has a Local Road Safety Plan?

Louisiana Parishes with LRS PLANS

- ACADIA
- ASCENSION
- BOSSIER
- COUSHATTA TRIBE
- EAST BATON ROUGE
- EVANGELINE
- IBERIA
- LAFAYETTE
- OUACHITA
- ST LANDRY
- ST MARTIN
- ST MARY
- ST TAMMANY
- VERMILION

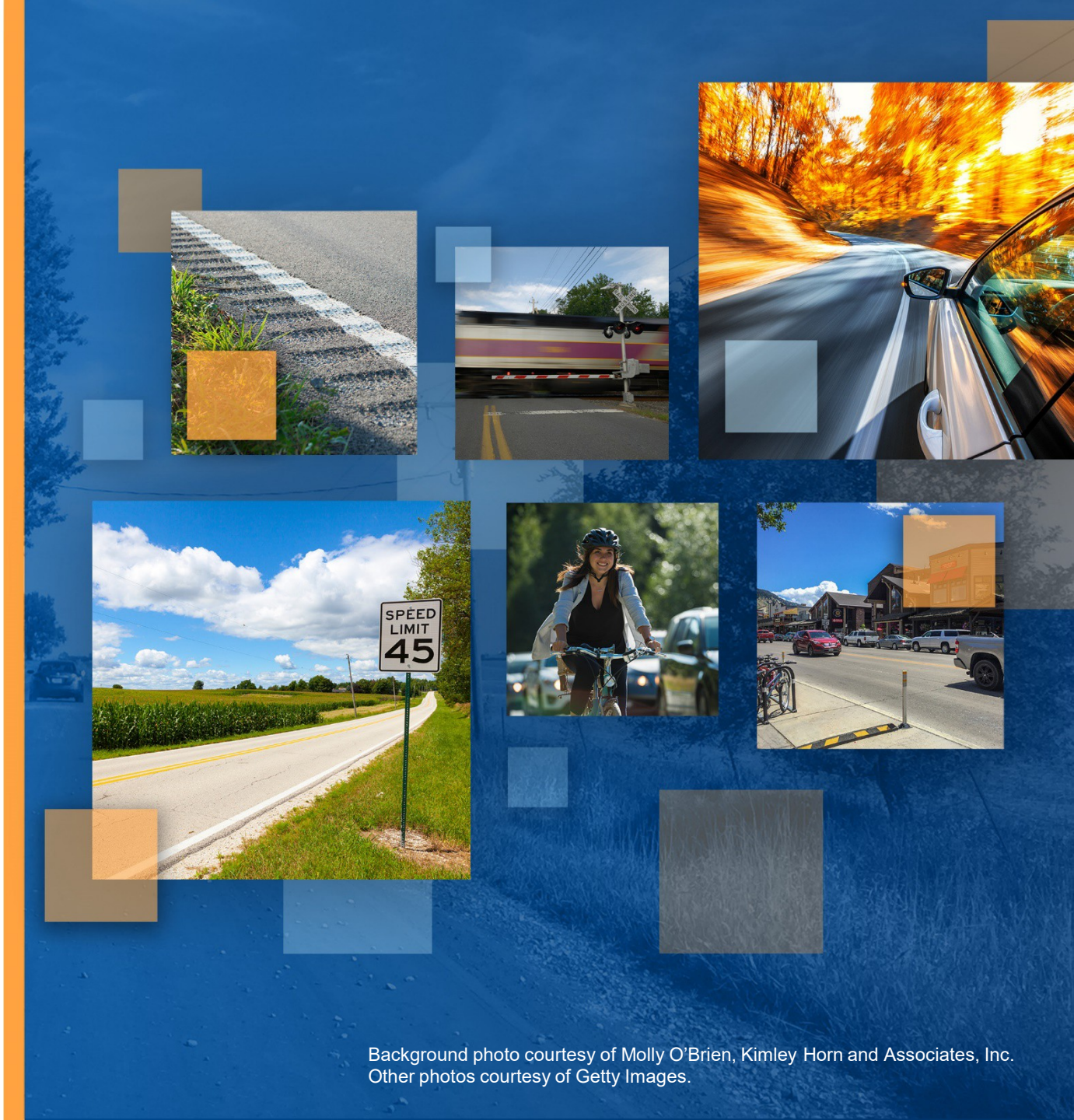
IMPLEMENTING A LOCAL ROAD SAFETY PLAN

June 29, 2020

presented by

Federal Highway Administration

Office of Safety



Safe Roads for a Safer Future
Investment in roadway safety saves lives

U.S. Department of Transportation
Federal Highway Administration

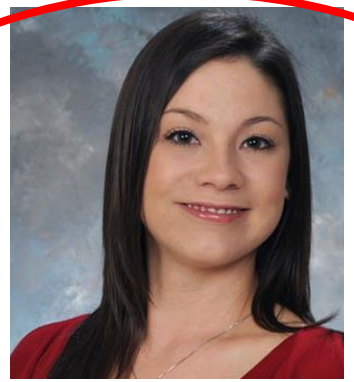
Background photo courtesy of Molly O'Brien, Kimley Horn and Associates, Inc.
Other photos courtesy of Getty Images.

Your PRESENTERS today include:

Pam Beer
Cambridge Systematics

Molly O'Brien
Kimley-Horn and Associates, Inc.

Tracy Shandor
Kimley-Horn and Associates, Inc.



Cassie Parker - South Central
Regional Safety Coalition

Andrew McGuire
Keokuk County, IA

Stephen McCall
Champaign County, OH

STEP 1 – Maintain Buy-in and Support
HOUMA- THIBODAUX MPO – CASSIE PARKER

- South Central Regional Safety Coalition Regional LRSP
  - Collaboration between Safety Coalition and MPO Technical Advisory Committee
    - Joint quarterly meetings to review projects, address safety concerns, monitor crash data, evaluate priorities, determine available funding sources, and identify best practices and policies
  - Provide periodic updates in presentations to area MPO Policy Committee, area MPO Board
  - Provide information on current safety trends
    - Crash data on local roads
    - Road safety assessment findings
    - Proven effective countermeasures to address specific crash types
    - Funding sources
    - Best Practices and policies for local governments to adopt

How does my Parish/Municipality make a Local Road Safety Plan?

Nick Verret's

DEVELOPING A LOCAL ROAD INVENTORY ON A "SHOESTRING" BUDGET

KNOWING WHAT YOU HAVE
AND
KNOWING WHAT CONDITION IT IS IN
AND
USING THIS DATA TO *DRIVE DECISIONS*

AT THE VERY LEAST, ADD DETAILS TO YOUR EXISTING SPREADSHEET INVENTORY, AS THE OPPORTUNITY PRESENTS ITSELF.

- **PAVEMENT TYPE & WIDTH**
- **TYPE OF SHOULDERS & WIDTH/CURB & GUTTER**
- **LOCATION OF SIGNIFICANT FEATURES:**
  - **SIDE ROAD INTERSECTIONS**
  - **CHANGES IN PAVEMENT TYPE OR WIDTH**
- **PAVEMENT CONDITION DATA**
- **REHABILITATION HISTORY – YEAR, SCOPE OF WORK, ETC.**
- **INCLUDE ALL ASSETS SIGNS, DRAINAGE STRUCTURES, ETC.**

"Do what you can,
with what you have,
where you are."
– Theodore Roosevelt

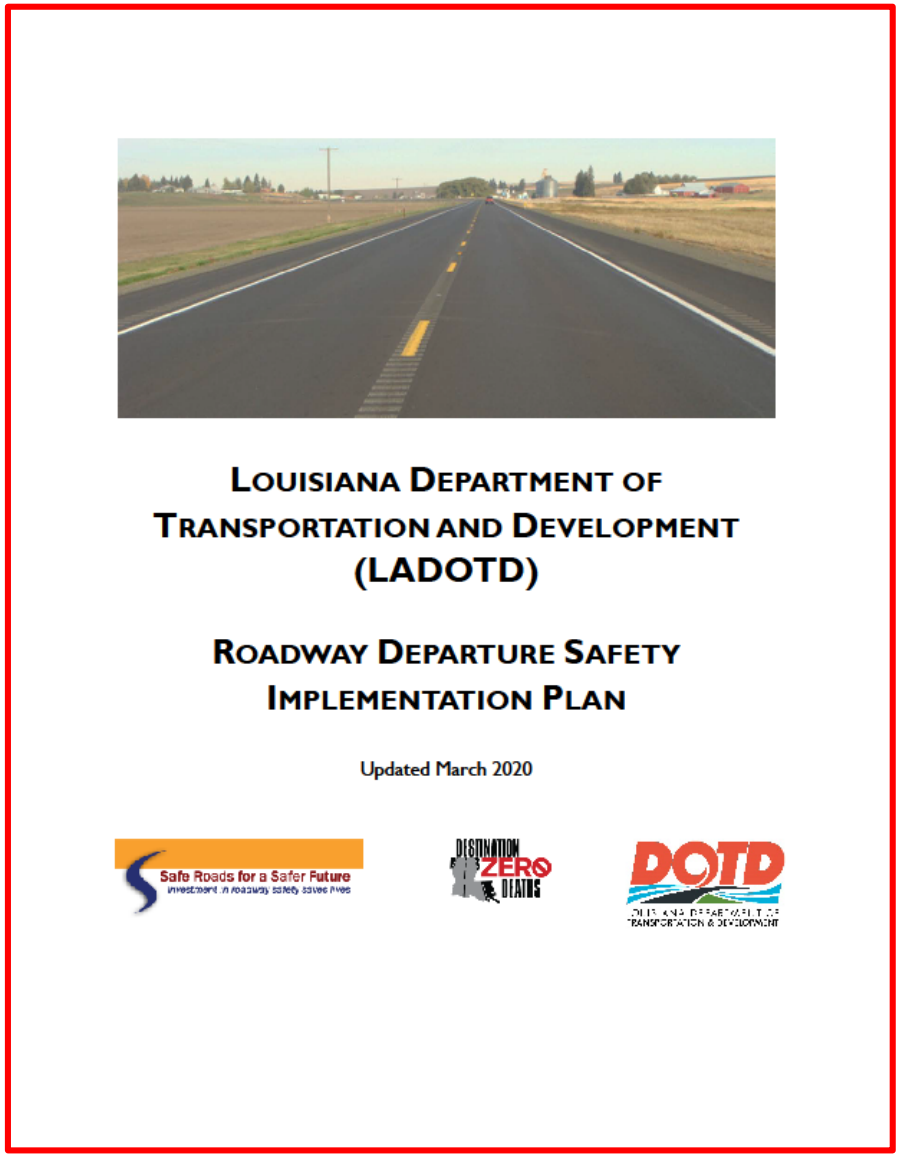
Assistance With LRS Plans

- DOTD
  - Strategic Highway Safety Plan (Updated Every 5 Years)
  - Roadway Departure Safety Implementation Plan (2021)
- Regional Safety Coalitions (2011)
- Local Road Safety Program (LRSP) 2006

Strategic Highway Safety Plan

Comprehensive, multi-stakeholder plan that sets goals and strategies to reduce highway deaths and injuries:

- Statewide, multimodal highway safety plan
- Coordinated framework for reducing deaths and serious injuries
- Involvement of Federal, state, local, and private sector stakeholders: 4Es
- Required to be updated every 5 years



"To address disproportionately high fatal crashes on both state and locally owned roadways, the State of Louisiana worked with the Federal Highway Administration (FHWA) and its contractor Texas Transportation Institute (TTI) to develop a *Roadway Departure Safety Implementation Plan* for Louisiana."

1. Center Rumble Stripes/Strips
2. Edgeline Rumble Stripes/Strips
3. Wide Centerline Pavement Markings, 6”
4. Wide Edgeline Pavement Markings, 6”
5. Raised Pavement Markers at CL, Additional
6. Raised Pavement Markers at edge, Delineation
7. Lighting Improvements
8. High Friction Surface Treatment, Horizontal curves
9. Static Curve Warning Sign (Standard)
10. Enhanced Curve Warning System
11. Utility Pole Relocation/ Add Barrier
12. Remove or shield tree or fixed objects
13. Culvert and Ditch Improvement
14. Shoulder Widening w/ Drainage Improvements
15. Shoulder Widening w/out Drainage Improvements
16. Flattening Median Sideslopes
17. Add Barrier
18. Improve Barrier
19. Install Median Barrier

ASCENSION PARISH RURAL ID1	Street_Name	LRS_Begin	LRS_End	Obs_RwD	Obs_KABC_Rwd	Pre_RwD	Exp_RwD	1. Center Rumble Stripes/Strips	2. Edgeline Rumble Stripes/Strips	3. Wide Centerline Pavement Markings, 6”	4. Wide Edgeline Pavement Markings, 6”	5. Raised Pavement Markers at CL, Additional	6. Raised Pavement Markers at edge, Delineation	7. Lighting Improvements	8. High Friction Surface Treatment, Horizontal curves
LA5100292400491010_0.007_0.286	N Amelia Ave	0.007	0.286	0	0	0.07	0.04								
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LA5100309903691010_0.162_0.325	N Anita St	0.162	0.325	0	0	0.05	0.03								
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LA5104379200491010_0_0.103	Tobey Ave	0.000	0.103	0	0	0.04	0.02								
LA5104896000491010_0_0.121	N Edenborne Ave	0.000	0.121	0	0	0.07	0.03								
LA5104901802991010_0.008_0.152	N J J Lanoux Rd	0.008	0.152	0	0	0.04	0.02								
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LA5104921600491010_0.047_0.175	N Twin Circle Ave	0.047	0.175	0	0	0.07	0.03								


Northwest Louisiana Transportation Safety Coalition
Northeast Louisiana Highway Safety Partnership
Central Louisiana Highway Safety Coalition
Louisiana SHSP Regional Coalitions
Southwest Louisiana Regional Safety Coalition
Acadiana Regional Transportation Safety Coalition
Capital Region Transportation Safety Coalition
North Shore Regional Safety Coalition
South Central Regional Safety Coalition
New Orleans Regional Traffic Safety Coalition

INFRASTRUCTURE & OPERATIONS
STATEWIDE ACTION PLAN

STATUS / ATTAINMENT KEY				
0%	<25%	<50%	>50%	100%

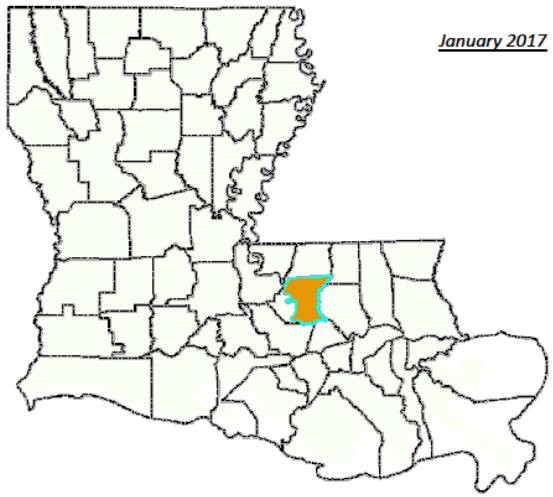
	YTD ATTAINMENT		STRATEGY ACTION STEP DETAILS					
	STRATEGY	STEP ATTN	ID	PRL	YD	OD	DESCRIPTION	EOY RATING
COORDINATION	Not Started	0.00%	1.1	**YES**	NO	NO	Provide the RSCs with the information to support the HSIP and other safety related efforts including current safety trends, data, targets and I/O projects. (RSCs to submit data quarterly via electronic form)	N/A
		0.00%	1.2	NO	NO	NO	Increase and ensure RSC process knowledge of Road Safety Assessments (RSA).	N/A
		0.00%	1.3	NO	NO	NO	Conduct a workshop with 9 Districts and RSCs to provide data updates and trends, funding, processes and safety planning.	N/A
		0.00%	1.4	NO	NO	NO	Coordinate the development of district wide investment plans with relevant stakeholders.	N/A
EDUCATION	Not Started	0.00%	2.1	**YES**	NO	NO	Provide SHSP Dashboard tutorials to RSC Coordinators to train media personnel and/or community outreach representatives across the state to promote accuracy in usage and enhance awareness and understanding of crash data and trends	N/A
		0.00%	2.2	NO	NO	NO	Educate Districts and RSCs on the Roadway Departure Plan for identifying future safety projects on state and local roads.	N/A
		0.00%	2.3	NO	NO	NO	Conduct workshops for local agencies on the Roadway Departure Plan/FoRRRwD(EDC).	N/A
		0.00%	2.4	NO	NO	NO	Provide information on training/webinars/workshops to DOTD, RSCs, Locals, and Consultants for non-motorized users.	N/A
ENFORCEMENT	Not Started	0.00%	3.1	NO	NO	NO	Provide TIMS/WZ Safety Training to support statewide LEAs.	N/A
			N/A	NO	NO	NO		N/A
			N/A	NO	NO	NO		N/A
			N/A	NO	NO	NO		N/A
OPERATION	Not Started	0.00%	4.1	**YES**	NO	NO	Provide technical assistance and continued guidance for Local Road Safety Plan Development for remaining Top 20 Parishes (or other parishes as agreed on by the team) and provide technical assistance for Implementation of completed Local Road Safety Plans.	N/A
		0.00%	4.2	NO	NO	NO	Program the number of RWD projects in the HSIP with the SHSP for roadway departure trends (Local and State).	N/A
		0.00%	4.3	NO	NO	NO	Program the number of INT projects in the HSIP with the SHSP for intersection trends (Local and State).	N/A
		0.00%	4.4	NO	NO	NO	Program the number of non-motorized projects in the HSIP with the SHSP for non-motorized trends (Local and State).	N/A
OUTREACH	Early Progress	25.00%	5.1	**YES**	NO	NO	Increase statewide awareness of I/O via social media by developing and distributing a standardized annual I/O media campaign scheduler to RSCs.	N/A
		2.78%	5.2	**YES**	YES	YES	Increase awareness of I/O initiatives by disseminating the 2020 IO Educational Webinar to their constituents/new coalition members.	N/A
			N/A	NO	NO	NO		N/A
			N/A	NO	NO	NO		N/A

YTD TOTAL	YTD PROGRESS		ID		EMPHASIS AREA ACTION PLAN PERFORMANCE MEASURE	PREV. YR	TGT	RESULT	ACTION PLAN RATING
	Early Progress	2.78%	I.	a.	1% minimum reduction of serious injuries involving roadway departures	596.00	556.95		
				b.	1% minimum reduction of fatalities involving roadway departures	427.00	439.55		
			II.	a.	1% minimum reduction of serious injuries at intersections	490.00	500.67		
				b.	1% minimum reduction of fatalities at intersections	155.00	141.66		
			III.	a.	1% minimum reduction of serious injuries involving non-motorized users	229.00	189.21		
				b.	1% minimum reduction of fatalities involving non-motorized users	144.00	129.05		

- Locally owned roads
- Funding 100% federal
- No maximum limitation
- Project costs > $500,000 require a benefit-cost analysis
- Applications reviewed quarterly

East Baton Rouge Parish

Local Road Safety Profile



January 2017

LRSP LOCAL ROAD SAFETY PROGRAM

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LTAP LOCAL TECHNICAL ASSISTANCE PROGRAM

DESTINATION ZERO DEATHS

		SEVERITY					INTERSECTION	ALCOHOL		LIGHTING		WETNESS		COLLISION TYPE											HARMFUL EVENT																					
RANK	Row Labels	A-Fatal	B-Severe	C-Moderate	D-Complaint	E-PDO	Non-Intersection	Intersection	NO	YES	DARK	LIGHT	WET	DRY	Head On	Left Turn-e	Left Turn-f	Left Turn-g	Non Coll	Other	Rear End	Right Turn-h	Right Turn-i	Rt Angle	S Swipe(od)	S Swipe(sd)	Animal	Bridge-ohead	Culvert	Curb	Ditch	Embank-ment	Fence	Guard Rail Face	Mail Box	MV in Trans	Oth Non Coll	Other Fixed Object	Other Pole	Other Obj	Over-turned	Parked MV	Pedestrian	Ran off Road-L	Ran off Road-R
	Parish																																												
13	BUNCOMBE RD	-	3.22	2.40	0.83	0.87	2.62	0.32	1.00	1.04	1.55	0.82	1.14	0.93	-	-	-	-	3.84	0.51	0.55	-	-	0.39	3.00	0.65	11.85	-	12.00	-	6.00	-	-	-	-	0.51	-	-	-	-	6.31	-	-	-	-
5	LINWOOD AVE	-	-	2.27	1.02	0.89	1.47	0.80	0.97	1.62	1.10	1.00	1.17	0.99	1.97	2.95	1.49	-	2.10	0.73	0.97	-	-	0.80	-	0.45	-	-	9.97	-	8.73	-	-	-	-	0.71	-	-	-	-	6.56	-	-	-	-
33	PINE HILL RD	-	-	2.21	2.05	0.63	2.71	0.28	0.95	2.05	1.39	0.89	0.92	1.00	-	-	-	-	3.41	0.47	1.11	-	-	0.43	1.69	0.37	-	-	18.90	-	4.05	32.41	-	-	-	0.59	-	-	-	-	14.21	-	-	-	-
28	WOOLWORTH RD	-	-	1.72	1.02	0.92	1.87	0.63	1.01	0.88	1.09	0.99	1.05	0.94	-	-	-	-	1.70	0.63	1.91	-	-	-	2.11	-	3.74	-	-	-	4.17	-	-	-	-	0.90	-	-	-	-	7.31	-	-	-	-
30	ELLERBE RD	-	-	2.53	0.96	0.90	1.93	0.61	0.91	2.71	1.48	0.85	1.20	0.97	-	-	-	-	3.39	0.65	1.14	-	-	0.45	1.30	-	9.97	-	-	-	5.56	-	5.37	-	-	0.68	-	-	-	-	5.48	-	-	-	-
18	JEFFERSON PAIGE RD	-	-	2.14	1.16	0.86	2.79	0.25	0.91	2.90	1.54	0.80	1.43	0.91	2.64	-	-	-	4.23	0.52	0.46	-	-	-	1.57	-	7.65	-	-	-	6.82	-	-	-	6.06	0.54	-	-	-	-	6.73	-	-	-	-
43	N LAKESHORE DR	-	-	1.90	1.32	0.84	2.89	0.20	0.94	2.26	1.54	0.83	0.89	1.00	-	-	-	-	3.95	0.81	0.63	-	-	0.42	-	-	-	-	13.89	-	-	-	8.95	-	6.17	0.41	-	-	-	-	15.98	-	-	-	-
41	BARRON RD	-	-	2.90	1.45	0.71	2.82	0.23	0.95	1.91	1.56	0.82	1.50	0.94	-	-	-	-	4.91	0.48	0.57	-	-	-	-	-	-	-	31.82	-	15.91	-	-	-	-	0.37	-	-	-	-	9.30	-	-	-	-
4	E KINGS HWY	-	-	-	1.14	0.99	2.31	0.45	0.99	1.17	1.06	1.02	1.07	1.00	-	2.56	-	-	1.21	0.35	1.56	-	-	0.87	-	1.46	-	-	-	-	5.40	-	-	-	-	1.07	-	-	-	-	-	-	-	-	-
	Shreveport																																												
1	JEWELLA AVE	-	0.87	0.90	1.35	0.94	0.63	1.16	1.02	0.52	0.91	1.06	1.06	0.99	0.57	1.15	1.85	1.76	0.44	0.59	1.43	2.06	0.64	0.79	0.38	1.69	-	-	-	2.28	-	-	-	-	1.16	2.24	-	-	1.21	-	0.11	0.55	-	-
2	KINGS HWY	-	1.59	0.81	0.96	1.01	0.70	1.13	1.03	0.38	0.59	1.18	0.74	1.04	0.27	0.60	1.22	0.54	0.28	0.46	1.97	1.34	1.01	0.93	0.28	1.57	-	-	-	1.06	-	-	-	-	1.22	-	-	-	-	-	0.15	1.16	-	-
3	LINE AVE	-	0.65	0.84	1.14	0.99	0.34	1.28	1.03	0.47	0.46	1.23	1.10	0.99	0.53	1.10	2.13	0.79	0.35	0.56	1.57	1.41	0.58	1.04	0.41	1.44	-	-	-	-	-	-	0.56	-	1.20	-	-	-	-	-	-	0.50	-	-
4	E KINGS HWY	-	0.73	1.13	1.04	0.99	0.69	1.13	1.02	0.64	0.68	1.16	1.30	0.97	0.60	1.01	2.16	1.29	0.56	0.53	1.70	0.66	-	0.83	0.51	1.24	-	-	-	1.71	-	-	-	-	1.19	-	-	-	-	0.65	-	0.56	-	2.62
6	HOLLYWOOD AVE	-	1.27	1.39	1.36	0.89	0.65	1.15	0.99	1.19	1.09	0.99	1.12	0.99	0.65	1.51	2.29	1.83	0.45	0.64	1.23	1.15	0.95	0.93	0.22	1.70	-	-	-	2.24	-	-	-	-	1.15	-	1.18	-	-	-	0.13	1.02	-	-
5	LINWOOD AVE	-	0.97	1.55	1.42	0.87	0.60	1.17	1.02	0.55	0.76	1.12	1.36	0.95	0.67	1.72	1.52	0.66	0.43	0.57	1.62	1.47	0.72	1.17	0.68	1.06	0.49	-	-	-	-	-	-	-	1.16	-	0.60	-	-	-	0.17	1.66	-	-
7	PINES RD	-	0.66	0.76	1.16	0.99	1.22	0.91	1.02	0.53	0.98	1.01	1.09	0.99	0.39	1.74	2.35	2.97	0.62	0.63	1.44	1.99	-	0.57	0.38	1.28	0.66	-	-	1.53	1.22	-	-	-	1.16	1.17	3.62	0.81	-	-	-	-	-	-	-
8	PIERREMONT RD	-	1.21	0.69	1.10	1.00	0.42	1.24	1.02	0.53	0.51	1.22	1.19	0.98	-	0.90	1.38	-	0.14	0.46	2.23	1.32	-	0.72	-	1.42	-	-	-	-	-	-	-	-	1.23	-	-	-	-	-	-	-	-	-
9	LAKESHORE DR	-	-	1.33	1.58	0.86	0.60	1.17	0.99	1.12	0.97	1.02	1.17	0.99	-	1.74	2.84	0.93	0.49	0.82	0.96	1.74	-	0.96	0.57	1.57	-	-	-	4.47	-	-	-	-	1.16	-	-	-	-	-	-	1.39	-	-
10	FAIRFIELD AVE	-	-	1.00	1.13	0.98	0.41	1.25	0.99	1.11	0.67	1.14	1.15	0.98	-	1.04	0.44	1.55	0.55	0.79	1.04	1.78	1.46	1.82	1.03	1.09	-	-	-	-	-	-	-	-	1.18	-	-	-	-	-	0.26	-	-	-
11	CLYDE FANT MEMORIAL PKWY	3.95	-	1.58	1.25	0.90	1.37	0.84	0.94	2.23	1.70	0.72	1.45	0.94	1.04	1.87	1.07	1.44	1.73	0.69	0.90	0.96	-	0.76	-	1.36	-	-	-	4.16	-	-	-	12.08	0.94	-	1.31	-	-	-	-	4.98	6.38	-
12	WALKER RD	-	1.28	0.87	1.41	0.92	1.26	0.89	1.02	0.52	0.83	1.08	1.11	0.99	1.00	1.13	0.57	-	0.72	0.57	1.87	1.93	-	0.88	-	1.03	-	-	-	8.00	-	-	1.85	-	1.11	-	-	-	-	-	-	-	-	-
14	ST VINCENT AVE	-	1.76	2.15	1.15	0.88	0.48	1.22	0.99	1.17	0.80	1.08	0.72	1.03	0.78	-	1.63	1.80	0.87	0.90	0.63	1.20	-	2.15	0.46	0.76	-	-	-	-	-	-	-	-	1.07	-	-	-	-	-	-	2.23	-	-
15	GILBERT DR	-	-	0.87	1.09	0.99	0.23	1.33	1.00	0.90	1.03	1.00	1.07	0.99	1.57	-	1.97	1.45	0.75	0.83	1.01	1.45	2.38	1.54	-	0.81	-	-	-	-	-	-	-	-	1.10	-	-	-	-	-	-	-	-	-
16	MILAM ST	-	-	1.40	1.25	0.92	0.73	1.11	0.99	1.11	1.18	0.95	1.14	0.98	1.01	-	1.15	1.16	0.38	0.99	1.02	-	-	1.18	-	1.73	-	-	-	-	-	-	-	-	1.02	-	-	-	-	-	1.20	-	-	-
19	FERN AVE	-	-	1.32	0.78	1.03	1.36	0.85	1.00	0.94	0.78	1.08	0.80	1.02	-	-	0.87	-	1.22	0.70	1.23	1.77	-	1.29	-	1.11	-	-	-	-	-	-	-	-	1.11	-	-	-	-	-	-	-	-	-
13	BUNCOMBE RD	-	-	1.91	1.04	0.90	1.30	0.88	0.99	1.13	1.19	0.94	1.41	0.94	1.97	-	1.12	1.82	1.38	0.73	1.64	-	-	0.48	0.70	0.40	3.35	-	-	-	-	-	-	-	2.66	1.06	-	-	-	-	-	-	-	-	-
20	HIGHLAND AVE	-	-	0.98	0.97	1.02	0.37	1.27	1.03	0.50	0.71	1.11	0.92	1.02	-	-	1.38	-	0.71	0.77	0.70	-	-	2.65	0.96	0.76	-	-	-	-	-	-	-	-	1.09	-	2.52	-	-	-	0.71	-	-	-
17	FLOURNOY LUCAS	-	-	1.18	1.28	0.95	1.07	0.97	0.94	2.11	0.90	1.06	1.31	0.96	1.28	1.15	0.97	-	0.82	0.79	1.96	-	-	0.78	1.27	-	2.22	-	-	-	-	-	-	-	1.11	-	-	-	-	-	-	-	-	-
23	SOUTHFIELD RD	-	2.35	1.44	1.22	0.91	0.91	1.04	1.04	-	0.36	1.29	1.27	0.97	-	2.49	1.57	2.66	-	0.41	1.20	-	-	2.26	-	1.11	-	-	-	-	-	-	-	-	1.13	-	-	-	-	-	-	-	-	-
22	SOUTHERN AVE	-	-	1.28	1.38	0.91	0.61	1.17	1.00	0.95	0.84	1.07	0.76	1.02	-	1.24	0.79	-	1.03	0.82	1.00	-	-	1.20	0.82	1.34	-	-	-	-	-	-	-	-	1.25	-	-	-	-	-	0.61	-	-	-
21	CRESWELL AVE	-	-	0.98	0.91	1.03	0.34	1.28	0.97	1.56	0.90	1.01	1.41	0.92	1.89	1.70	1.35	-	0.38	1.08	0.70	-	-	1.96	-	0.89	-	-	-	-	-	-	-	-	1.09	-	-	-	-	-	0.84	-	-	-
24	BROADWAY AVE	-	2.46	1.00	1.39	0.90	0.29	1.30	0.99	1.19	1.12	0.93	0.87	1.03	-	1.30	1.37	-	0.69	0.93	0.84	-	-	0.89	1.15	1.99	-	-	-	-	-	-	-	-	1.12	-	-	-	-	-	-	-	-	-
25	CENTENARY BLVD	-	-	0.71	0.92	1.03	0.37	1.27	1.00	1.05	0.79	1.13	0.67	0.99	1.53	-	1.17	-	0.57	0.42	1.87	-	-	1.41	0.91	0.53	-	-	-	-	-	-	-	-	1.14	-	-	6.91	-	-	-	-	-	-
26	STONER AVE	-	-	1.43	1.43	0.90	0.31	1.29	1.00	1.06	0.69	1.11	1.25	0.97	-	-	2.65	-	0.66	0.50	1.03	-	-	1.98	-	1.15	-	-	-	-	-	-	-	-	1.19	-	-	-	-	-	-	-	-	-
27	KINGSTON RD	-	-	0.94	1.04	0.97	1.15	0.94	1.03	-	0.76	1.13	1.06	0.97	-	1.96	-	1.88	1.31	0.76	1.23	-	-	1.50	0.97	0.28	-	-	-	-	-	-	-	-	1.05	-	-	-	-	-	-	-	-	-
29	PORTLAND AVE	-	-	2.31	1.07	0.91	0.55	1.19	0.96	1.83	1.36	0.82	1.09	0.97	2.22	1.50	1.27	-	0.62	1.03	0.72	-	-	1.45	1.65	0.76	-	-	-	-	-	-	-	-	0.93	-	-	-	-	-	1.00	-	-	-
31	MURPHY ST	-	-	1.38	1.57	0.84	0.30	1.30	1.01	0.70	0.72	1.11	0.92	0.98	-	-	-	-	0.64	0.75	1.09	-	-	2.26	-	1.07	-	-	-	-	-	-	-	-	1.04	-	-	-	-	-	-	-	-	-
18	JEFFERSON PAIGE RD	-	-	1.03	1.43	0.90	1.33	0.86	1.03	-	1.17	0.93	1.35	0.93	2.38	-	-	-	1.24	1.18	1.39	-	-	0.36	1.06	0.41	-	-	-	-	-	-	-	-	1.06	-	-	-	-	-	-	-	-	-
32	CORBITT ST	-	-	0.86	1.12	1.00	0.62	1.16	1.00	1.03	0.87	1.06	1.12	0.99	-	-	-	-	0.90	1.01	0.97	-	-	1.43	1.85	0.96	-	-	-	-	-	-	6.19	-	1.09	-	-	-	-	-	-	-	-	-
34	MARSHALL ST	-	-	0.93	1.13	0.98	0.44	1.23	1.01	0.83	0.75	1.11	0.66	1.04	-	-	1.15	-	0.86	0.99	0.53	-	-	1.75	-	1.39	-	28.56	-	-	-	-	-	-	0.89	-	-	-	-	-	2.38	-	-	-
36	MIDWAY AVE	-	-	-	1.68	0.91	0.65	1.15	1.01	0.87	1.03	1.01	1.59	0.93	-	-	-	2.42	0.90	1.29	0.85	3.24	-	0.54	-	1.20	-	-	-	-	-	-	-	-	1.00	-	-	9.47	-	-	-	-	-	-
37	E STONER AVE	-	-	2.24	1.04	0.90	0.43	1.24	1.04	-	0.61	1.16	0.47	1.08	-	2.59	1.64	3.32	0.58	0.53	1.06	-	-	1.43	-	1.36	-	-	-	-	-	-	-	-	1.19	-	-	-	-	-	-	-	-	-
38	E WASHINGTON ST	-	-	1.03	0.98	0.98	0.63	1.15	0.94	2.14	1.14	0.97	1.08	0.98	-	-	-	-	0.59	1.04	0.90	-	-	1.70	2.20	0.76	-	-	-	-	-	-	-	-	1.08	-	4.64	-	-	-	-	-	-	-
39	MONKHOUSE DR	-	-	0.78	1.35	0.96	0.79	1.09	1.05	-	1.63	0.77	0.49	1.08	-	-	3.86	-	0.36	0.78	0.91	-	-	1.04	-	1.81	-	-	-	-	-	-	-	-	1.15	-	-	-	-	-	-	-	-	-
40	OLIVE ST	-	-	1.97	1.17	0.89	0.43	1.24	1.02	-	0.45	1.20	0.66	1.06	-	2.19	-	-	0.39	0.72	1.62	-	-	1.24	-	0.84	-	-	-	-	-	-	-	-	1.20	-	-	-	-	-	-	-	-	-
44	PIERRE AVE	-	-	1.24	1.40	0.92	0.35	1.27	0.98	1.48	0.94	1.02	1.45	0.95	-	-	-	-	0.72	0.99	0.78	-	-	1.65	-	1.39	6.12	-	-	-	-	-	-	-	0.99	-	-	-	-	-	-	-	-	-
35	S LAKESHORE DR	-	-	1.86	1.29	0.85	0.95	1.02	0.98	1.48	1.01	1.02	1.31	0.93	-	2.42	-	-	1.72	1.19	0.70	-	-	0.69	2.13	-	-	-	-	-	-	-	-	-	1.08	-	-	-	-	-	-	-	-	-
47	KENNEDY DR	-	-	0.98	1.48	0.89	0.44	1.24	0.99	1.17	1.19	0.94	1.07	1.00	-	-	-	-	0.61	1.40	0.66	-	-	1.45	-	1.14	-	-	-	-	-	-	-	-	1.14	-	-	-	-	-	-	-	-	-
46	KNIGHT ST	-	-	-	1.36	0.97	1.37	0.84	1.01	-	0.93	1.02	0.92	1.02	-	3.41	1.62	-	-	0.35	1.64	-	-	1.16	1.69	0.65	-	-	-	-	-	-	-	-	1.11	-	-	-	-	-	-	-	-	-

ROUTE PROFILE TABLE

		SEVERITY				INTERSECTION		ALCOHOL		LIGHTING		WETNESS		COLLISION TYPE											HARMFUL EVENT																					
RANK	Row Labels	B-Severe	C-Moderate	D-Complaint	E-PDO	Non-Intersection	Intersection	NO	YES	DARK	LIGHT	WET	DRY	Head On	Left Turn-e	Left Turn-f	Left Turn-g	Non Coll	Other	Rear End	Right Turn-h	Right Turn-i	Rt Angle	S Swipe(od)	S Swipe(sd)	Animal	Culvert	Curb	Ditch	Embank-ment	Fence	Mail Box	MV in Trans	Oth Non Coll	Other Fixed Object	Other Pole	Other Obj	Over-turned	Parked MV	Pedacycle	Pedestrian	Ran off Road-R	Traff Sign Supp	Tree	Unknown	Util Pole / Light Sup
	Lake Charles																																												
1	E PRIEN LAKE RD	-	0.60	1.43	0.91	0.97	1.05	1.04	0.31	0.61	1.15	1.39	0.94	0.46	0.56	2.79	1.20	0.31	0.62	1.50	1.28	-	0.85	0.36	1.35	-	0.32	0.73	0.43	-	0.47	-	1.29	-	-	0.90	-	0.43	-	-	0.43	-	-	-	-	0.51
2	LAKE ST	-	0.82	1.09	1.00	0.99	1.02	1.04	0.34	0.62	1.15	1.04	0.99	-	0.66	2.09	1.20	0.09	0.45	1.79	2.47	-	0.72	0.35	1.95	-	-	0.85	-	-	-	-	1.36	0.98	-	-	-	-	-	-	1.18	-	-	-	-	-
3	ENTERPRISE BLVD	0.85	0.58	1.40	0.92	0.58	1.65	1.04	0.24	0.56	1.16	1.06	0.99	0.40	1.42	2.71	1.95	0.30	0.68	0.71	1.07	-	1.68	0.37	1.81	-	-	3.93	-	-	-	-	1.25	1.70	0.74	-	-	-	0.17	-	-	-	-	0.49	1.36	0.51
4	COMMON ST	-	0.75	1.10	1.01	1.03	0.95	1.02	0.69	0.69	1.12	0.83	1.03	0.40	0.43	1.55	0.87	0.22	0.65	1.96	1.24	-	0.75	0.37	1.10	-	-	-	-	-	-	-	1.30	-	0.56	-	-	-	0.29	-	-	-	-	-	1.03	0.62
5	W MCNEESE ST	-	0.67	1.16	1.00	1.14	0.79	1.04	0.27	0.49	1.20	0.90	1.02	-	0.94	1.72	0.53	0.15	0.66	1.56	1.84	-	1.17	-	1.59	-	-	-	-	-	-	-	1.35	-	-	-	-	-	-	-	0.96	-	-	-	-	0.34
6	KIRKMAN ST	-	0.61	1.34	0.94	0.84	1.24	1.04	0.30	0.65	1.14	1.03	0.99	-	-	0.90	1.07	0.26	0.96	1.37	0.57	1.29	1.66	-	0.76	-	-	-	-	-	-	-	1.25	-	1.39	-	-	-	-	4.43	-	-	3.07	-	-	0.77
8	12TH ST	1.30	0.65	1.39	0.91	0.86	1.21	1.03	0.52	0.74	1.10	0.98	1.00	1.02	0.88	1.03	1.69	0.09	0.73	1.58	-	-	1.58	-	0.74	-	-	-	-	-	-	-	1.31	-	-	-	-	-	0.26	-	1.80	-	-	-	-	0.79
9	W SALE RD	-	0.42	0.65	1.19	1.24	0.64	1.04	0.24	0.38	1.24	0.63	1.06	1.09	-	0.70	2.40	-	0.40	2.31	-	-	0.83	-	0.72	-	-	-	-	-	-	-	1.37	-	-	-	-	-	-	-	-	-	-	-	-	-
11	LOUISIANA AVE	-	0.73	1.20	0.97	0.84	1.25	1.03	0.40	0.70	1.12	1.02	1.00	-	1.17	1.18	0.75	0.46	1.23	0.87	0.94	-	1.31	1.26	2.15	-	-	-	-	-	-	-	1.22	-	-	-	4.04	-	0.71	-	1.81	-	-	-	-	0.64
10	BROAD ST	-	0.95	1.37	0.89	0.65	1.53	1.03	0.44	0.82	1.08	1.24	0.97	-	1.29	2.80	-	0.47	0.42	0.98	-	-	1.56	0.83	1.55	-	-	-	0.29	-	-	-	1.22	5.12	-	-	-	-	-	-	-	-	-	-	-	1.86
12	5TH AVE	-	1.17	1.22	0.92	0.75	1.37	1.04	-	0.63	1.14	0.83	1.03	-	1.29	1.83	1.66	0.34	0.56	0.83	1.04	-	1.56	-	2.55	-	-	-	-	-	-	-	1.26	-	1.67	-	-	-	-	-	-	-	-	0.84	-	1.16
17	RYAN ST	-	0.61	1.19	1.00	0.65	1.54	1.03	0.52	0.95	1.02	0.94	1.00	1.08	-	0.51	-	0.47	0.95	0.94	1.65	-	1.68	-	1.95	-	-	-	-	-	-	-	1.16	-	-	-	-	-	1.23	-	-	-	-	-	-	1.39
18	ERNEST ST	2.38	0.64	0.90	1.06	0.79	1.32	1.02	0.68	0.78	1.09	0.82	1.02	-	-	0.80	1.37	0.36	0.64	1.13	1.29	2.17	1.79	1.72	0.68	-	-	-	-	-	-	-	1.24	-	-	-	-	-	0.64	-	-	-	-	1.04	-	-
14	W PRIEN LAKE RD	3.27	1.12	0.99	0.97	1.14	0.79	1.03	0.42	0.80	1.09	0.95	1.01	-	2.06	1.24	1.06	0.34	0.66	1.85	-	-	0.83	-	0.70	-	1.85	-	0.87	-	-	-	1.22	-	-	-	-	-	-	-	-	-	-	-	-	-
19	18TH ST	-	0.78	0.99	1.03	1.12	0.81	1.04	-	1.08	0.98	1.51	0.92	2.76	-	1.81	-	0.32	1.35	0.92	-	-	1.21	2.54	0.83	-	-	-	-	-	-	-	1.16	-	-	5.03	-	-	0.98	7.32	4.04	-	-	-	-	-
21	OAK PARK BLVD	-	0.34	1.08	1.06	0.74	1.40	1.04	-	0.55	1.17	0.77	1.04	-	-	1.00	2.13	0.32	0.93	0.57	2.13	-	1.99	-	2.38	-	-	-	-	-	-	-	1.22	-	-	-	-	-	0.59	-	-	-	-	-	-	-
23	HODGES ST	-	0.52	1.28	0.97	0.58	1.63	1.03	-	0.63	1.12	1.20	0.97	-	-	-	-	0.28	0.83	0.59	-	-	2.94	-	-	-	-	-	-	-	-	-	1.24	-	-	-	-	-	0.92	-	-	-	-	-	-	-
24	W SALLIER ST	-	-	1.05	1.09	0.65	1.53	0.93	2.30	0.96	1.03	0.95	1.00	-	-	1.81	-	0.88	0.78	0.65	-	-	1.17	-	2.29	-	-	-	-	-	-	-	1.08	-	3.49	-	-	-	1.08	-	-	-	-	-	-	-
28	2ND AVE	-	0.96	1.86	0.74	0.42	1.88	1.04	-	0.69	1.13	0.73	1.04	2.64	-	0.71	-	0.17	0.72	0.46	-	-	3.36	-	-	-	-	-	-	-	-	-	1.29	-	2.75	-	-	-	-	-	-	-	-	-	-	-
29	3RD AVE	-	1.17	1.37	0.86	0.48	1.79	1.04	-	0.67	1.14	0.85	1.03	3.43	-	0.98	-	-	0.85	0.47	-	-	3.15	-	-	-	-	-	-	-	-	-	1.32	-	-	-	-	-	-	-	-	-	-	-	-	-
31	ALAMO ST	-	0.55	1.31	0.95	0.92	1.12	1.04	-	0.37	1.25	0.41	1.09	-	-	-	-	0.26	0.93	1.19	-	-	1.91	-	0.91	-	-	-	-	-	-	-	1.29	-	-	-	-	-	-	-	-	-	-	-	-	-
30	PRIEN LAKE	-	0.56	1.46	0.92	0.98	1.03	1.01	0.83	0.90	1.03	0.74	1.04	-	-	2.19	-	0.33	0.59	1.68	3.51	-	0.52	-	1.62	-	-	-	-	-	-	-	1.31	-	-	-	-	-	-	-	-	-	-	-	-	-
32	4TH AVE	-	0.56	1.41	0.91	0.54	1.69	1.02	-	0.65	1.14	1.81	0.88	-	-	1.66	-	0.34	0.60	0.80	2.67	-	2.27	2.14	-	-	-	-	-	-	-	-	1.25	-	-	-	-	-	1.32	-	-	-	-	-	-	-
34	MOELING ST	-	0.76	1.17	0.97	0.79	1.32	0.99	1.15	0.82	1.06	0.88	1.02	2.36	-	1.13	-	0.62	1.34	0.81	2.71	-	1.54	-	0.71	-	-	-	-	-	-	-	1.19	-	-	-	-	-	-	-	-	-	-	-	-	3.64
35	LAKESHORE DR	-	1.35	0.46	1.15	0.71	1.45	1.02	-	1.11	0.91	0.89	1.00	-	-	2.28	2.93	0.91	0.74	0.88	-	-	0.47	-	2.65	-	-	-	-	-	-	-	1.06	-	3.31	-	-	-	-	-	-	-	-	-	-	1.85
37	OPELOUSAS ST	-	1.59	1.02	0.92	1.00	0.99	1.04	-	1.03	1.00	1.47	0.93	-	-	0.88	-	0.29	0.64	1.36	-	-	1.45	2.27	-	-	-	-	-	-	-	-	1.28	-	-	-	-	-	-	-	-	-	-	-	-	-
36	1ST AVE	-	-	1.26	1.00	0.54	1.70	1.02	-	0.88	1.04	0.47	1.07	-	-	-	-	0.44	1.18	0.41	-	-	2.40	2.34	-	-	-	-	-	-	-	-	1.17	-	-	-	-	-	-	-	-	-	-	-	-	1.96
38	SHATTUCK ST	-	1.64	1.40	0.79	0.75	1.38	0.97	1.54	1.00	1.01	0.93	1.01	-	-	-	-	-	1.44	1.05	-	-	1.90	-	-	-	-	-	-	-	-	-	1.34	-	-	-	-	-	-	-	-	-	-	-	-	-
43	7TH ST	-	1.03	1.06	0.97	1.20	0.69	1.03	-	0.81	1.08	1.17	0.98	-	-	1.52	-	0.37	0.82	1.32	-	-	1.35	-	0.96	-	-	-	-	-	-	-	1.24	-	-	-	-	-	-	-	-	-	-	-	-	-
42	IHLES RD	-	-	0.64	1.24	1.28	0.57	0.97	1.61	0.92	1.04	0.91	1.02	-	-	-	-	0.39	-	2.67	-	-	-	4.07	-	-	-	-	-	-	-	-	1.24	-	-	-	-	-	-	-	-	-	-	-	-	-
46	L'AUBERGE BLVD	-	0.86	0.49	1.20	1.15	0.77	1.03	-	1.06	0.96	1.46	0.93	-	-	3.38	-	-	0.73	1.46	-	-	-	-	2.50	-	-	-	-	-	-	-	1.32	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sulphur																																													
7	MAPLEWOOD DR	-	1.04	0.86	1.05	1.00	1.00	1.02	0.62	0.61	1.15	0.99	1.00	-	1.28	0.92	1.57	0.33	0.34	1.79	0.79	-	0.97	-	1.71	-	-	-	-	-	-	-	1.29	3.63	0.95	-	-	-	-	-	-	-	-	-	-	0.53
16	S HUNTINGTON ST	-	1.47	1.45	0.82	0.92	1.13	1.03	0.39	0.69	1.13	0.79	1.04	1.07	-	1.92	0.98	0.25	0.28	1.47	-	-	1.36	-	1.51	-	-	-	-	-	-	-	1.31	-	-	-	-	-	-	-	-	-	-	-	-	-
22	RUTH ST	-	1.00	0.56	1.16	1.03	0.96	1.01	0.75	0.43	1.22	0.86	1.02	-	1.66	2.40	-	0.23	0.48	1.35	-	-	1.11	-	2.19	-	-	-	-	-	-	-	1.32	-	-	-	-	-	-	-	-	-	-	-	-	-
13	E BURTON ST	-	0.86	1.07	0.98	1.12	0.82	0.94	2.15	1.19	0.95	1.37	0.94	-	-	-	-	1.19	0.37	1.79	-	-	0.63	-	-	-	2.29	-	1.55	-	-	3.67	0.99	-	-	-	-	-	-	-	3.93	-	-	-	-	1.38
27	S HUNNINGTON ST	-	0.63	1.28	0.95	0.75	1.38	1.02	0.71	0.67	1.13	0.97	1.01	-	-	0.69	1.78	0.45	0.60	1.78	-	-	1.01	-	0.78	-	-	-	-	-	-	-	1.24	-	-	-	-	-	-	-	-	-	-	-	-	1.99
25	CYPRESS ST	-	1.32	1.24	0.91	0.81	1.29	1.05	-	0.47	1.21	0.74	1.04	-	-	1.46	-	0.18	0.74	0.98	3.11	-	1.39	-	2.66	-	-	-	-	-	-	-	1.34	-	-	-	-	-	-	-	-	-	-	-	-	-
	Parish																									1.86																				
15	N PERKINS FERRY RD	3.14	1.97	0.80	0.94	0.97	1.05	1.00	1.07	1.28	0.91	1.11	0.96	1.84	-	1.19	1.35	1.55	0.34	1.42	-	-	0.40	-	0.56	2.10	2.13	-	2.88	-	-	-	0.90	-	-	-	5.42	1.62	-	-	-	-	-	-	-	0.85
20	NELSON RD	3.76	1.14	1.61	0.74	0.92	1.12	0.97	1.50	1.51	0.83	1.05	0.99	1.77	1.89	2.74	1.62	0.93	0.37	1.06	-	-	0.52	1.63	1.43	-	2.27	-	1.15	-	-	-	1.07	-	-	-	-	-	0.76	-	-	-	-	-	-	-
13	E BURTON ST	-	2.39	1.12	0.81	0.83	1.26	1.03	-	1.11	0.96	1.10	0.96	-	2.64	-	4.52	2.10	0.38	0.76	-	-	0.54	-	-	3.55	6.59	-	1.82	-	-	-	0.71	-	-	-	-	-	-	-	-	9.53	-	-	-	2.89
26	TOPSY RD	-	1.59	1.52	0.75	1.16	0.76	0.84	4.05	1.63	0.76	1.81	0.86	-	-	-	-	2.69	0.61	0.77	-	3.79	-	-	0.79	-	4.40	-	4.03	-	-	-	0.46	-	-	-	-	3.59	-	-	-	-	-	4.24	-	-
33	ELLIOTT RD	-	3.02	1.03	0.71	1.03	0.95	0.93	2.27	1.60	0.79	0.61	1.06	-	-	-	-	2.72	-	1.04	-	-	-	-	-	-	7.69	-	3.47	-	4.75	-	0.55	-	-	-	-	3.90	-	-	-	-	-	-	-	-
39	W HOUSTON RIVER RD	-	2.54	1.03	0.74	1.31	0.53	0.94	2.08	1.52	0.82	0.91	1.02	-	-	-	-	2.58	0.59	0.72	-	-	-	-	-	-	6.40	-	1.55	19.13	-	-	0.54	-	-	-	-	6.27	-	-	-	-	-	2.64	-	-
40	OLD SPANISH TRL	-	2.06	1.32	0.77	1.20	0.69	0.97	1.55	0.89	1.06	0.44	1.09	-	-	-	-	1.40	-	1.61	-	-	-	-	1.61	-	4.09	-	-	-	-	-	0.91	-	-	-	-	-	-	-	-	-	-	-	-	3.28
41	W GAUTHIER RD	-	1.05	1.71	0.78	0.79	1.31	1.03	-	1.58	0.80	1.93	0.86	-	3.49	-	-	0.95	-	1.72	-	-	0.53	-	-	-	-	-	1.76	-	-	-	1.10	-	-	-	-	-	-	-	-	-	-	-	-	-
10	BROAD ST	-	1.88	1.38	0.80	0.98	1.03	0.97	1.61	1.00	1.01	1.37	0.95	-	-	-	-	0.97	0.69	1.45	3.81	-	0.76	-	-	-	-	-	2.16	-	-	-	1.01	-	-	-	-	-	-	-	-	-	-	-	-	-
50	RIVER RD	-	3.51	0.80	0.77	1.36	0.45	0.87	3.51	2.34	0.52	1.32	0.95	-	3.87	-	-	3.37	-	0.33	-	-	-	-	-	-	8.11	-	3.52	-	-	-	0.38	-	-	-	-	5.29	-	-	-	-	7.81	-	-	-

HSIP/SHSP: Infrastructure & Operations - Possible Causes of Crashes & Recommended Countermeasures (by crash type)

Roadway Departure (Run-off-the-road)

- Slippery pavement/ponded water
  - Improve pavement condition/skid resistance
  - Improve drainage
- Inadequate road design and/or maintenance
  - Improve superelevation
  - Improve shoulders
  - Eliminate shoulder drop-off
  - Install/improve traffic barriers
  - Enhance signing
  - Widen lanes
  - Flatten slopes/ditches
  - Improve alignment/grade
  - Remove/Reduce/ Delineate roadside hazards
- Poor delineation
  - Install roadside delineators
  - Install advance warning signs
  - Improve/install pavement markings
- Poor visibility
  - Increase sign size
  - Install lighting
  - Evaluate sight distance

Intersections

- Restricted sight distance
  - Remove sight obstructions
  - Provide adequate channelization
  - Provide left/right turn lanes
  - Install warning signs
  - Install STOP signs
  - Install signal/ roundabout
  - Install advance markings to supplement signs
  - Install STOP bars
- Large volume of left/right turns (from side street)
  - Widen road
  - Channelize intersection
  - Install STOP signs
  - Install signal/roundabout
  - Increase curb radii
- Crossing pedestrians / Large total intersection volume
  - Install / improve ped signing/marking
  - Install signal
  - Add traffic lane
- Large volume of turning vehicles
  - Provide left/right turn lanes
  - Increase curb radii
  - Install signal/roundabout
- Inadequate lighting
  Lack of adequate gaps
  - Install lighting
  - Install signal/ roundabout
  - Install STOP signs
- Slippery surface
  - Improve skid resistance
  - Improve drainage
- Excessive vehicle speed on approaches; inadequate traffic control devices; poor visibility of signals
  - Install rumble strips in travel lane
  - Upgrade traffic control devices
  - Install/enhance advance warning signs
  - Install overhead signals
  - Install 12" LED signal lenses
  - Install visors/backplates
  - Relocate signals to far side of intersection
  - Remove sight obstructions
  - Add illuminated/ retro-reflectorized signs

Bridges

- Alignment
  - Realign bridge/roadway
  - Install advance warning signs
  - Improve delineation
- Narrow Roadway
  - Widen structure
  - Improve delineation
  - Install signing/signals
- Visibility
  - Remove obstruction
  - Install advance warning signs
  - Improve delineation
- Vertical Clearance
  - Rebuild structure/adjust roadway grade
  - Install advance warning signs
  - Improve delineation
  - Provide height restriction/warning
- Slippery Surface
  - Resurface deck
  - Improve skid resistance
  - Improve drainage
  - Enhance signing
- Rough Surface
  - Resurface deck
  - Rehabilitate joints
  - Regrade approaches
- Inadequate barrier system
  - Upgrade guardrail
  - Upgrade approach rail/terminals
  - Upgrade bridge - approach rail connections
  - Remove hazardous curb
  - Improve delineation

Rear-end and Right Angle

- Rear-end - Slippery Pavement
  - Improve pavement condition
  - Install high friction surface treatment
- Rear-end - Driver inattention
  - Provide advance warning signs
  - Eliminate unnecessary signing
  - Install transverse rumble strips
- Right Angle (Unsignalized Intersection)
  Restricted sight distance
  - Install warning signs
  - Install STOP signs
  - Install yield signs
  - Remove sight obstructions
  - Install signal/roundabout
  - Install lighting
- Right Angle (Signalized Intersection)
  Poor visibility of signals
  - Install advance warning signs
  - Install back plates
  - Remove sight obstructions
  - Add signal heads
  - Upgrade to 12" LED heads
- Right Angle (Signalized Intersection)
  Inadequate signal timing
  - Provide protected only left turn phase
  - Adjust amber phase
  - Provide all-red clearance interval
  - Install detection
  - Improve coordination

Access-Related

- Left-turning vehicles
  - Install median
  - Install/lengthen left turn lanes
- Improperly located driveway
  - Move driveway to side street
  - Install channelizing islands to define driveway location
  - Consolidate adjacent driveways
- Right-turning vehicles
  - Provide right turn lanes
  - Increase width of driveways
  - Widen through lanes
  - Increase curb radii
- Large volume of through traffic
  - Move driveway to side street
  - Construct a local service road
- Large volume of driveway traffic
  - Signalize driveway
  - Provide accel/decel lanes
  - Channelize driveway
  - Construct a local service road
- Restricted sight distance
  Inadequate lighting
  - Remove obstruction
  - Install lighting

Nighttime, Overturn and Wet Weather

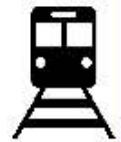
- Nighttime - Poor Visibility
  - Install or enhance advance warning signs
  - Install or enhance pavement markings
  - Install lighting
- Overturn - Roadside Features
  - Flatten slopes/ditches
  - Relocate drainage facilities
  - Extend culverts
  - Provide traversable culvert end treatments
  - Install/improve traffic barriers
- Overturn - Inadequate Shoulder
  - Widen shoulder
  - Upgrade shoulder surface
  - Remove curb/obstruction
- Overturn - Pavement
  - Eliminate edge drop-off
  - Improve pavement
- Wet Weather - Slippery Pavement
  - Improve pavement condition
  - Install high friction surface treatment
  - Improve drainage
- Wet Weather - Poor Visibility
  - Install raised pavement markers

Side-swipe or Head-on

- Inadequate road design and/or maintenance
  - Perform necessary road surface repairs
  - Install median or guardrail
  - Reevaluate no passing zones
  - Provide roadside delineators
  - Improve alignment/grade
  - Widen lanes
  - Provide passing lanes
  - Improve shoulders
  - Install rumble strips
- Excessive vehicle speed
  - Set speed limit based on speed study
- Inadequate pavement markings
  - Install/improve centerlines, lane lines, edge lines
  - Install reflectorized markers
- Inadequate signing
  - Provide advance direction and warning signs
  - Add illuminated street name signs
  - Superfluous signing
  - Limit signs to meet standards

Pedestrians and Bicyclists

- Poor Visibility
  - Remove sight obstructions
  - Install pedestrian crossing signs and pavement markings
  - Install median for refuge
  - Add "WALK" phase
  - Install lighting
  - Install advance warning signs
  - Reduce speed limit
  - Install/Improve sidewalks/bicycle paths



Railroads

- Restricted Sight Distance
  - Install/enhance advance warning signs
  - Install/enhance pavement marking
  - Remove sight obstructions
  - Provide preemption
  - Install gates
  - Install lighting

DESTINATION ZERO DEATHS

Developed in support for LADOTD SHSP Infrastructure efforts toward Destination Zero Deaths www.destinationzerodeaths.com

Rev. 3/2018

March 29, 2021

East Baton Rouge Parish Local Road Safety Improvement Plan

An analysis of East Baton Rouge crash data on local roads with a focused approach on improving safety through low-cost countermeasures

BR

CITY OF BATON ROUGE

PARISH OF EAST BATON ROUGE


ROADWAY STRIPING
BEADS

Louisiana LRSP Projects (as of 2019)

96 Let to Date Totaling almost $13 Million

Included pavement markings, striping, rumble strips, sign installations and upgrades, guard rails, message boards, etc..

+/- 60 LRSP Projects In Process

With status ranging from project number being requested, to contract agreement being executed, to design and implementation, to preparing invoices, final cost estimates, etc..

Local Road Safety Plan

"FHWA has a DIY Site for That!"

https://safety.fhwa.dot.gov/LRSPDIY/

https://www.youtube.com/watch?v=Wzdm798MoI8

THANK YOU!

Questions / Comments?

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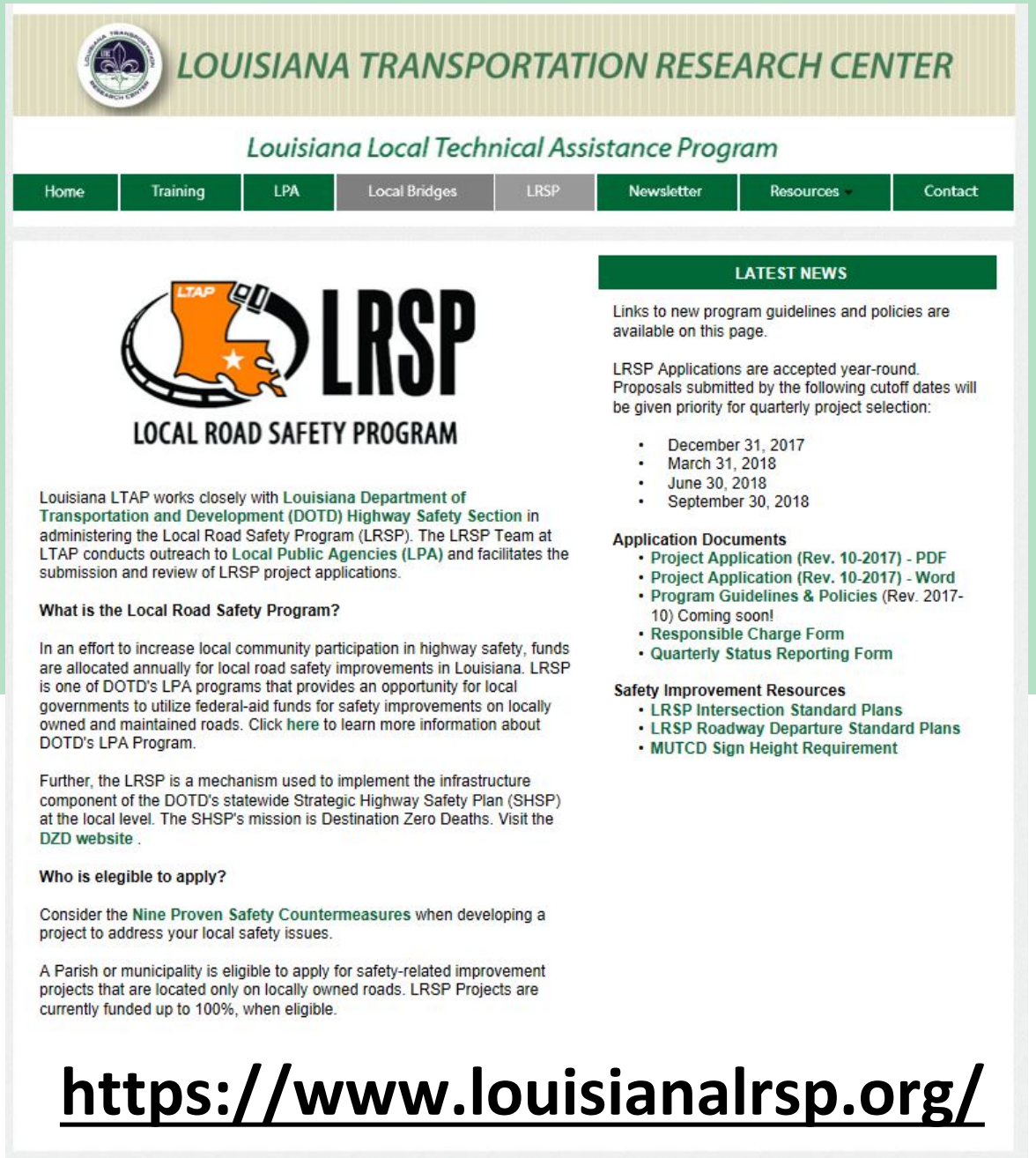

https://www.louisianalrsp.org/

BUY-IN & SUPPORT

Win the hearts and minds of parish and municipal leaders and stakeholders. Show them a win/win situation. Formal adoption of your LRS Plan by parish/municipal council

Reach out to newly elected officials and agency/department heads

Incorporate others on your parishes' road safety team (risk management, planning, permitting, public works, maintenance, development, etc..)

Track and Address citizen complaints/concerns (CASSIE) / Fact sheets / Share success stories

- Stakeholder meetings
- Social media
- Conferences
- Newsletter
- Presentations

COMMUNICATION & COORDINATION

Coordination with State DOT and LTAP

Outreach to other stakeholders

Incorporate stakeholders with representation from 4Es

PROJECTS

Data analysis to identify projects - Network screening / Systemic safety analysis process

proven countermeasures

FUNDING, PRIORITIZATION & PHASING

Determine potential funding sources

HSIP funding opportunities

Review opportunity for overlap with capital improvement projects

Verify if public/private partnerships are available

State DOT and LTAP

Link with priorities in other plans, other planned projects or policy/political concerns

Prioritize based on funding and identify projects that address most serious safety concerns - Benefit-cost analysis

CONSTRUCT

Design / Design build

State DOT and LTAP

Project bundling

On-going maintenance

Other methods

EVALUATE

post project crash trend lines

Update the plan – new crash data annually

Promote safety message through marketing success stories