Integrating Safety into Roadway Projects

Presented to
2015 Traffic Safety Conference

Presented by
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Louisiana Department of Transportation

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How do we integrate safety into roadway projects?
Integrating Safety into Roadway Projects

- Policy
- Meeting Standards
- Change in Safety Culture
  - Begins at the earliest stages - Planning
DOTD Safety Staff reviewed/approved safety section of the LRTP
  » LRTP safety goals and objectives are linked to the SHSP

Regional Safety Coalitions – developing regional safety plans that coordinate with their LRP and linked to the SHSP

Statewide implementation team includes regional safety coordinators, law enforcement, emergency services, engineers, behavioral, etc.

Statewide emphasis area teams involve federal, state, and local representatives
Multidisciplinary Structures

LA Regional Safety Coalitions

Louisiana SHSP Regions

Northwest Louisiana Regional Coalition
Northeast Louisiana Regional Coalition
Central Louisiana Regional Coalition
Southwest Louisiana Regional Coalition
Acadiana Transportation Safety Coalition
Capitol Area Regional Safety Coalition
North Shore Regional Safety Coalition
New Orleans Regional Traffic Safety Coalition
South Central Safe Communities Partnership
Safety in Planning Programs and Documents

Current Practice in LA

- Lafayette
  - Transportation Safety Plan
    - Bicycle and Pedestrian
    - Motorcycles
    - Strong Infrastructure Component

- New Orleans RPC
  - Bicycle and Pedestrian Plan

- Statewide
  - Louisiana Long Range Transportation Plan
  - Complete Street Work Group Final Report
  - Louisiana Bicycle and Pedestrian Master Plan
  - Bicycle Suitability and Goals Maps
Safety in Planning Programs and Documents

Regional Safety Action Plans

Regional Safety Coalition Members

The organizations and agencies involved in all aspects of safety planning for this region are members of the South Central Safe Community Partnership (SCSCP), which is a Safe Communities coalition that represents the 4 E's of safety – engineering, enforcement, education, and emergency response. A sub-set of the coalition formed a planning committee to develop the South Central Regional Transportation Safety Plan (SCRTSP). These stakeholders drafted the contents of the Plan and will oversee its development, implementation and evaluation. The agencies represented on the planning committee are:

- LADOTD: LA Highway Safety Commission (LHSC); South Central Planning & Development Commission (SCPDC); Houma-Thibodaux Metropolitan Planning Organization (HTMPO); Louisiana State Police (LSP); Troop C; Terrebonne Parish Consolidated Government (TPCG); Lafourche Parish Government (LPG); St. John the Baptist Parish District Attorney's Office; St. James Parish Sheriff's Office; Houma Police Department (HPD); and Thibodaux Police Department (TPD).

However, all SCSCP member agencies from the Bayou and River Regions contributed their ideas to the Plan. The following additional agencies (listed in alphabetical order) constitute the full list of safety stakeholders in the region, who should be consulted and included in future iterations of the plan:

- Alcohol & Drug Abuse Council of South Louisiana (ADAC)
- Assumption Parish School Board and Sheriff's Office, including the Village of New Iberia
- AARP Louisiana
- Bayou Region Motorcycle Awareness Campaign (MAC)
- Gramercy Police Department
- Houma Police Department
- Lady of the Seas General Hospital (LOSGH); Leonard Chabert Medical Center (LCMC)
- Lafourche Parish Government, School Board and Sheriff's Office
- Lockport Police Department
- Louisiana Operations Lifesaver (LOL); Louisiana Passenger Safety Task Force (LPSTF); Louisiana Technical Assistance Program (LTAP); Louisiana Transportation Research Center (LTRC); LA State Police Headquarters, Troop C and Troop B
- Mothers Against Drunk Driving (MAED); National Highway Traffic Safety Administration (NHTSA); Nicholls State University (NSU) Police Department
- Office of Public Health (OPH)
- St. Charles Parish Government, School Board and Sheriff's Office
- St. James Parish Government, School Board and Sheriff's Office, including Town of Gramercy and Town of Lutcher
- St. John the Baptist Parish Government, District Attorney's Office, School Board, Sheriff's Office and LSU Ag Center Research & Extension
- Terrebonne Parish Consolidated Government, School Board and Sheriff's Office
- Thibodaux Police Department and City of Thibodaux
- Wal-Mart Transportation
Vision, Goals, Objectives
Louisiana Legislative Questionnaire

- Maintaining what we have: 77%
- Strengthening the economy and creating/sustaining jobs: 54%
- Reducing commute times: 26%
- Improving transportation safety: 19%
- Providing essential public transportation services for elderly, disabled, and low income citizens: 18%
- Providing additional transportation choices such as walking, biking, and transit: 17%

Percent Responding As Very Important (Rank of 1 or 2 out of 6)
Vision, Goals, Objectives

Louisiana Public Survey

- Maintain what we have: 91%
- Increase safety – all modes: 78%
- Ports to attract business, jobs: 73%
- Reduce congestion – technology/low cost: 74%
- Airports for business, tourism: 68%
- Railroads for economic development: 63%
- Reduce congestion – new capacity: 61%
- Basic transp. for elderly/disabled/low income: 58%
- Reduce congestion – transit & bike/ped: 45%
- More non-highway transp. choices: 41%

Very Important to Some
Safety Goal

- Provide safe and secure travel conditions across all transportation modes through physical infrastructure improvements, operational controls, programs, and public education and awareness.

Safety Objectives

- Reduce number and rate of highway-related fatalities and serious injuries.
- Reduce number of highway crashes.
- Reduce number of pedestrian and bicycle accidents.
- Assist modal partners in achieving safe and secure transit, port, and aviation facilities.
**Vision, Goals, Objectives**

**Regional Safety Goals and Objectives**

**LOUISIANA STRATEGIC HIGHWAY SAFETY PLAN**
**SOUTH CENTRAL REGIONAL TRANSPORTATION SAFETY COALITION (SCRTSP)**
**INFRASTRUCTURE & OPERATIONS ACTION PLAN**

**TEAM LEADERS:** Perry Blanchard (Terrebonne Parish) and Terry Arabie (Lafourche Parish)

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**Roadway Departure Goal:** Reduce roadway departures fatalities from the current average of 48 per year to 42 by 2015, which ensures the South Central Region links to the statewide goal of reducing fatalities by half by 2030.

**Intersection Goal:** Reduce intersection fatalities from the current average of 13 per year to 11 by 2015, which ensures the South Central Region links to the statewide goal of reducing fatalities by half by 2030.

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**Objective 1:** To identify high crash locations and/or safety concerns and develop a strategy for project implementation based on crash data findings, best practices in traffic safety, and availability of funding sources

**Strategy 1.1:** Collaborate with DOTD Houma Sub-district, HTMPO committees and Safe Community partners to identify safety concerns and assess data

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<thead>
<tr>
<th>Action Step #</th>
<th>Action Step Leader</th>
<th>Description</th>
<th>Output Measure</th>
<th>Outcome Measure</th>
<th>Timeline</th>
<th>Budget</th>
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<tbody>
<tr>
<td>1.1.1</td>
<td>HTMPO &amp; SCSCP</td>
<td>Encourage the stakeholders and the public to express their safety concerns by completing the “Safety Concern to Refer to DOTD” yellow sheets during quarterly meetings of SCPDC’s different Transportation Division committees such as HTMPO Policy &amp; Technical Advisory, Safe Community, Coordinated Human Services, Bike-Pedestrian Subcommittee, and Road Safety Assessment (RSA) Multidisciplinary Team.</td>
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# of safety concerns | Recommended safety projects based on evaluation results | 3 years + |  |

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**Safe Community Partnership**

**DESTINATION ZERO DEATHS**
Data Collection and Analysis

Data Driven Decisions

- Interagency agreement between LSU and DOTD
  - Data Collection
  - Software implementation and support (LACRASH)
  - Implementation of new technology
  - Data analysis and accessibility

- Law Enforcement Expert
  - Contract position acting as a law enforcement liaison
Data Collection and Analysis

Highway Safety Manual

- Conducted data needs assessment
  » Curve database and intersection database

- HSM Lead state
  » Determining direction of implementation
  » Developing policies on how to incorporate safety into every stage of project development (FHWA Pool Fund)

- Developing calibration factors for HSM SPFs
- Developing state-specific SPFs
- Require HSM training
- Incorporate HSM into Stage 0 Feasibility studies
- Use of IHSDM to evaluate alternatives/design exceptions
Data Collection and Analysis
Vision Zero Suite
Data Collection and Analysis

High PSI Segments

- Use DOTD Crash Database
- Plot Crashes Using GIS
  - Functional classification
  - Intersections
  - Sections
  - Spots
Decision Factor

Funding Priorities

Total Construction Budget

- Traffic Safety
- Operations/Motorist Services
- System Preservation
- Additional Capacity/New Infrastructure
E. Project Scope, Range of Alternatives, Alternative Evaluation and Screening (Continued)

Was the DOTD’s “Access Management” policy taken into consideration? If so, describe how. (See EDSM IV.2.1.4 for more information.)

Were any safety analyses performed? If so describe results and attach documentation. For safety analysis guidance follow this link: http://www.dotd.la.gov/planning/highway_safety/home.aspx?key=3

Are there any abnormal crash locations or overrepresented crashes within the project limits?
Decision Factor

HSIP Project Selection Process

- DOTD Districts
- MPO Plans
- Other State Agencies
- Federal Agencies
- Elected Officials and Public
- Statewide Transportation Plan

DOTD Legal Section

- Recommendations for Design, Regional, Corridor, Federal Improvements, etc.
-经费和预算

Network Screening

- List of candidate road segments with crash data and annual state budget

Highway Safety Team

- DOTD Districts (Review and feedback to Team)
- MPO Plans
- Other State Agencies
- Highway Safety Team
- Elected Officials and Public
- Transportation Planning Section—Prepare Program

DOTD Districts (Evaluate locations and develop projects)

- Initial List of Projects in Priority List (ICP) order and cost

Other State Agencies

- Transportation Planning Section—Prepare Program

State Plan

- Budgets and IMS Guidelines

MPO Plans

- Recommend U.S. Location Projects

Transportation Planning Section—Prepare Program

DOTD Districts

- Evaluate the project and feedback to Team

Elected Officials and Public

- Evaluation on plans and judgments

DOTD Districts (Review and feedback to Team)
Developed as policy resulting from EDSM No: I.1.1.11 - DATA FOR DESIGN OF PAVEMENT PRESERVATION PROJECTS (06/09/2009)

“The District Traffic Operations Engineer shall review the crash history, abnormal locations, and any other pertinent traffic information within the limits of the project in accordance with the Safety Assessment Process. The District Traffic Operations Engineer will sign Attachment 8 and summarize recommendations on the attachment and in the Road Safety Assessment Report, as applicable.”
Monitoring and Evaluating Performance

New Evaluation Tool
Monitoring and Evaluating Performance

Performance Measures

- Fatalities and Serious Injuries
  - Frequency
  - Rate

- Legislative Reporting
  - Fatalities
  - Crash reduction at safety project locations

- Internal Reporting
  - Safety project funding
  - SHSP Implementation
Questions?

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