

# Louisiana Statewide Transportation Plan Update



Advisory Council Meetings – Round Two  
*Highway Operations and Maintenance*  
*Baton Rouge, LA*

October 1-2, 2013

**CDM  
Smith**

# Highway Needs Analysis

- Pavement
- Bridge
- Capacity
- Safety
- Operations/Motorist Services

LADOTD Road Class	Name	Mileage	Percent
Interstate Highway System	IHS	1,521.7	8.4%
Non-Interstate NHS	NHS	2,415.5	13.4%
State Highway System	SHS	6,767.5	37.4%
Regional Highway System	RHS	7,383.0	40.8%
Total System		18,087.7	100.0%

# Pavement Performance Goals

- Interstate Highways at 97% Fair to Excellent
- National Highways of Significance at 95% Fair to Excellent
- State Highways of Significance at 80% Fair to Excellent
- Regional Highways of Significance at 80% Fair to Excellent

# Goal Pavement Needs

Type of Improvement	Cost (\$M)	% of Cost	Miles	% of Miles
Modernization	\$1,140.1	10.2%	6,488.0	12.4%
Preservation	\$7,496.8	67.3%	23,144.5	44.1%
Routine Maintenance	\$2,509.5	22.5%	22,804.8	43.5%
<b>Total</b>	<b>\$11,146.4</b>	<b>100.0%</b>	<b>52,437.3</b>	<b>100.0%</b>

# Goal Pavement Needs

Type of Improvement	IHS	NHS	SHS	RHS	Total
Modernization	\$464.4	\$290.7	\$226.1	\$158.9	\$1,140.1
Preservation	\$982.3	\$1,802.9	\$2,472.9	\$2,238.7	\$7,496.8
Routine Maintenance	\$2.3	\$5.1	\$857.1	\$1,645.0	\$2,509.5
<b>Total</b>	<b>\$1,449.0</b>	<b>\$2,098.7</b>	<b>\$3,556.1</b>	<b>\$4,042.6</b>	<b>\$11,146.4</b>
<b>Percent of Total</b>	<b>13.0%</b>	<b>18.8%</b>	<b>31.9%</b>	<b>36.3%</b>	<b>100.0%</b>

# Capacity Needs

	Backlog	Accruing	Total
<b>Cost (\$M)</b>	\$5,385.3	\$1,099.1	\$6,484.4
<b>Miles</b>	837.6	167.0	1,004.6

Improvement	Cost (\$M)	Miles
<b>Adding Lanes</b>	\$980.3	72
<b>TSM</b>	\$118.8	95
<b>Total</b>	\$1,099.1	167

# Bridge Needs

Analysis	Bridges		Cost	
	Count	%	\$ (Million)	%
<b>Backlog</b>	5,051	23.3%	\$2,480.4	54.1%
<b>Accruing</b>	16,663	76.7%	\$2,104.8	45.9%
<b>Total</b>	21,714	100.0%	\$4,585.4	100.0%

Improvement Category	Bridges		Cost	
	Count	%	\$ (Million)	%
<b>Preservation</b>	14,482	86.9%	\$697.8	33.2%
<b>Modernization</b>	1,173	7.0%	\$41.3	2.0%
<b>Replacement</b>	1,008	6.0%	\$1,365.8	64.9%
<b>Total</b>	16,663	100.0%	\$2,104.8	100.0%

Type of Improvement	Accruing Needs	
	2012-2044	2011-2044
<b>ITS-Capital Equipment Replace</b>	5	18
<b>Signals</b>	829	906
<b>Interstate Striping</b>	141	146
<b>Interstate Signs</b>	58	70
<b>Rest Areas &amp; Weight Stations</b>	29	102
<b>Movable Bridges</b>	269	276
<b>Ferries</b>	77	79
<b>Roadway Flooding</b>	154	158
<b>Total</b>	<b>1,561</b>	<b>1,754</b>

# State System Needs

Category	Improvement	33 Year Needs		By Category		Roads / Bridges	
		Cost	Percent	Cost	Percent	Cost	Percent
Pavement	Modernization	\$14,853.2	53.4%	\$14,853.2	53.4%	\$22,947.7	82.5%
	Preservation						
	Routine Maintenance						
Road Capacity	Adding Lanes	\$6,484.4	23.3%	\$6,484.4	23.3%		
	TSM (future)						
Safety	Vertical Clearance	\$2.0	0.0%	\$131.9	0.5%		
	Railroad Crossings	\$129.9	0.5%				
Operations	ITS-Capital Equipment	\$17.7	0.1%	\$1,754.4	6.3%		
	Signals	\$905.9	3.3%				
	Interstate Striping	\$145.4	0.5%				
	Interstate Signs	\$70.2	0.3%				
	Rest Areas/ Weight Stations	\$102.1	0.4%				
	Ferries	\$78.9	0.3%				
	Roadway Flooding	\$157.9	0.6%				
	Movable Bridges	\$276.3	1.0%				
Bridges	Preservation	\$4,585.2	16.5%	\$4,585.2	16.5%	\$4,861.5	17.5%
	Modernization						
	Replacement						
<b>TOTAL</b>		\$27,809.2	100.0%	\$27,809.2	100.0%	\$27,809.2	100.0%