# CRISIS COALITION

Regional Projects Analysis

February 2, 2015

# STUDY BACKGROUND

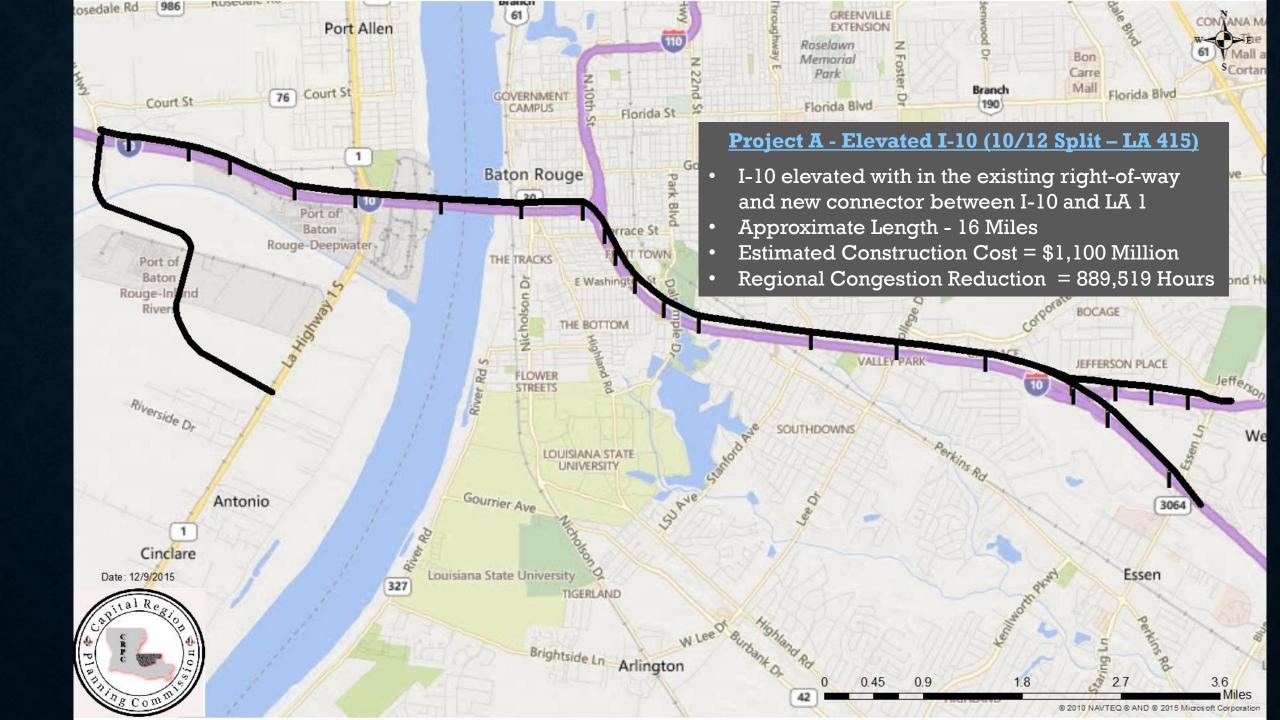
- Team of CRISIS Representatives, Parish Presidents and/or their Representatives,
  Legislators, and MPO Staff shortlisted 19 regional projects for analysis
- Consideration was given to all regional projects in the State Long Range Plan
- 1 project was subsequently eliminated
  - Project D (LA1 LA 30 Connector EB) LADOTD deemed unfeasible

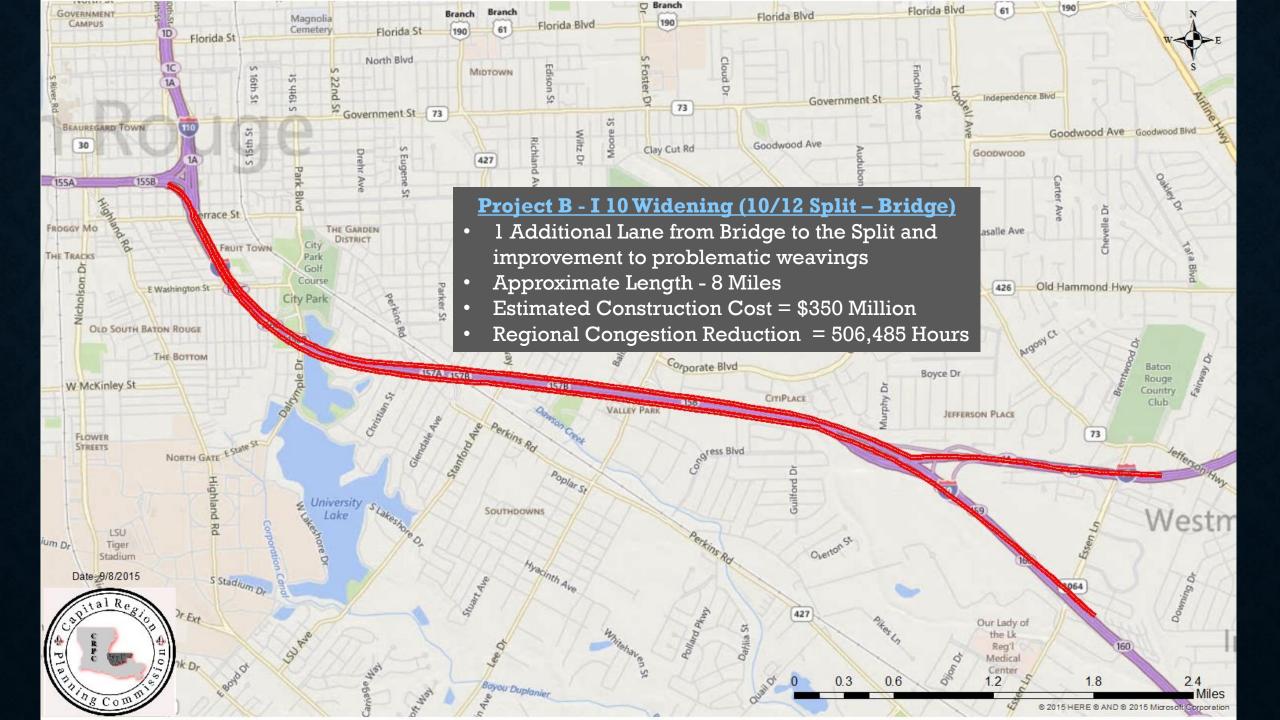
# DATA-DRIVEN METHODOLOGY

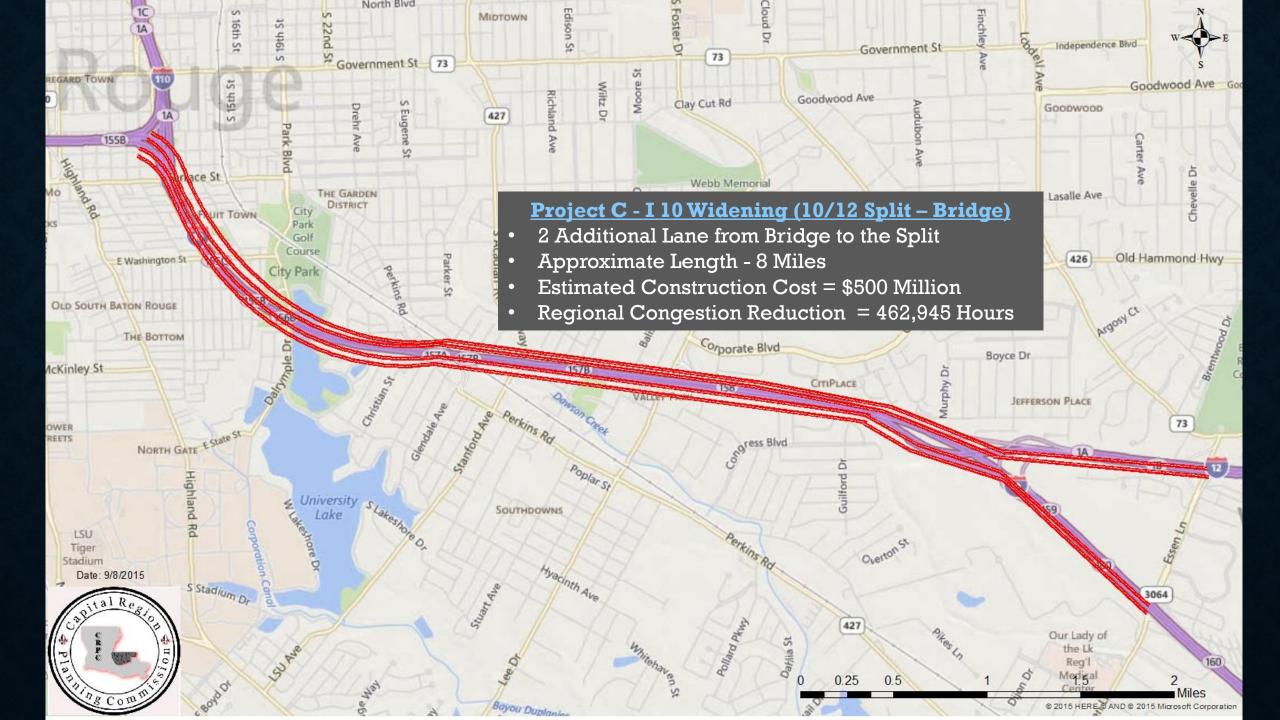
- 18 Major transportation projects analyzed
- Regional transportation model used for comparative analysis (2037)
- Key Metric Daily reduction in regional Vehicle Hours of Travel (VHT)
- "Best Available" Cost estimates done in conjunction with DOTD
- Ratios of costs and benefits derived for comparison

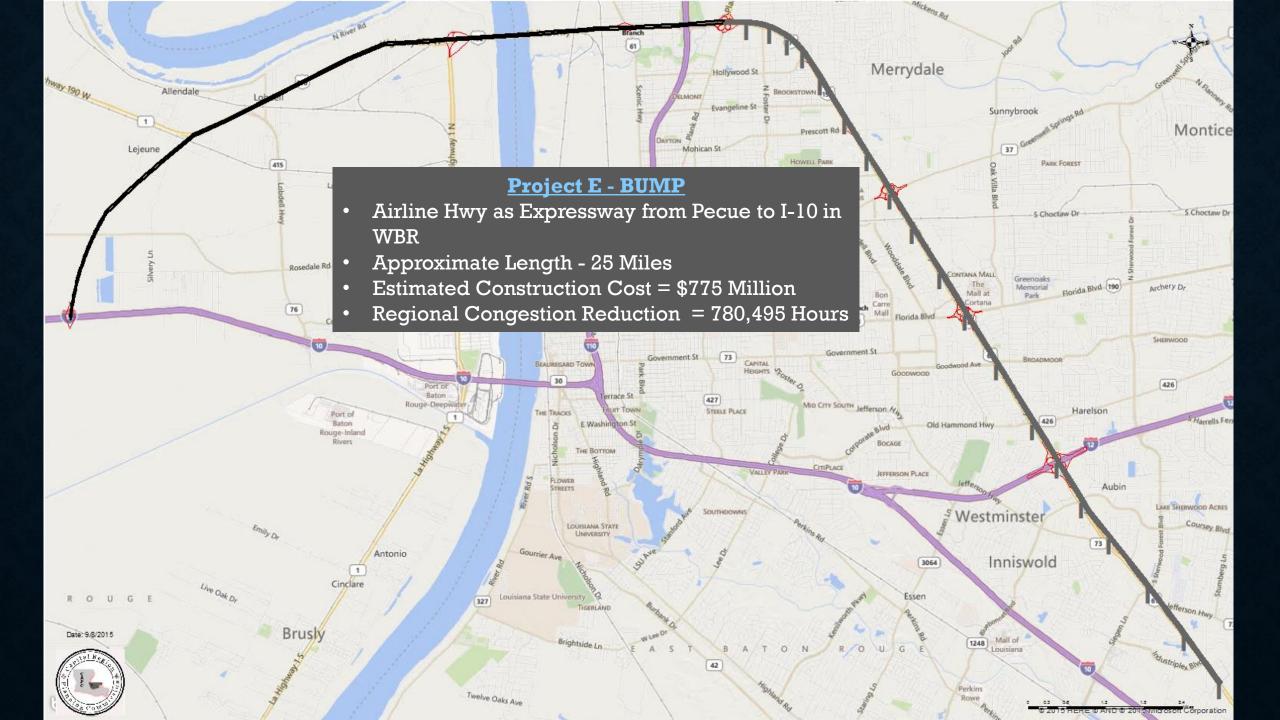
# ABOUT THE TRANSPORTATION MODEL

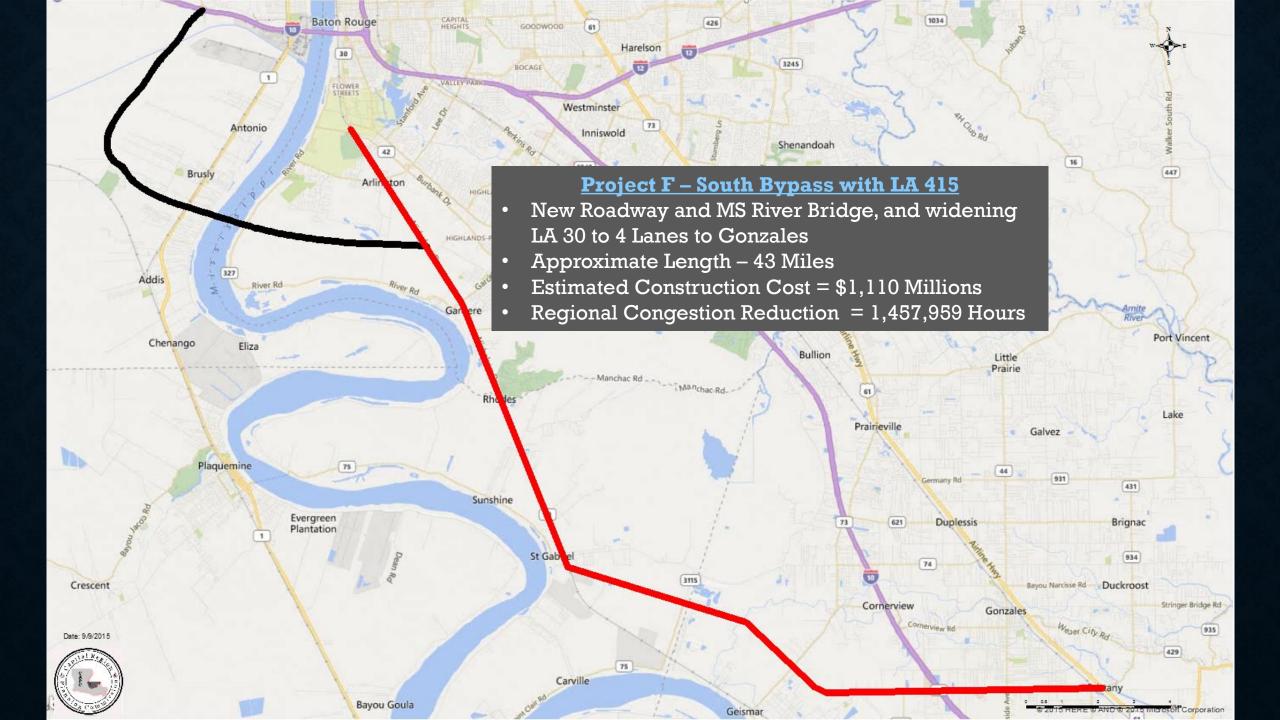
- TransCAD Software, used throughout the U.S. to model urban transportation networks
- BR Regional Model built and maintained by our MPO (CRPC) under the direction of LADOTD
- Model calibrated and validated to ensure it matches existing traffic conditions
- Population, employment and other socio-economic data variables drive the model
- Growth rates developed and applied to grow these data variables to design year 2037

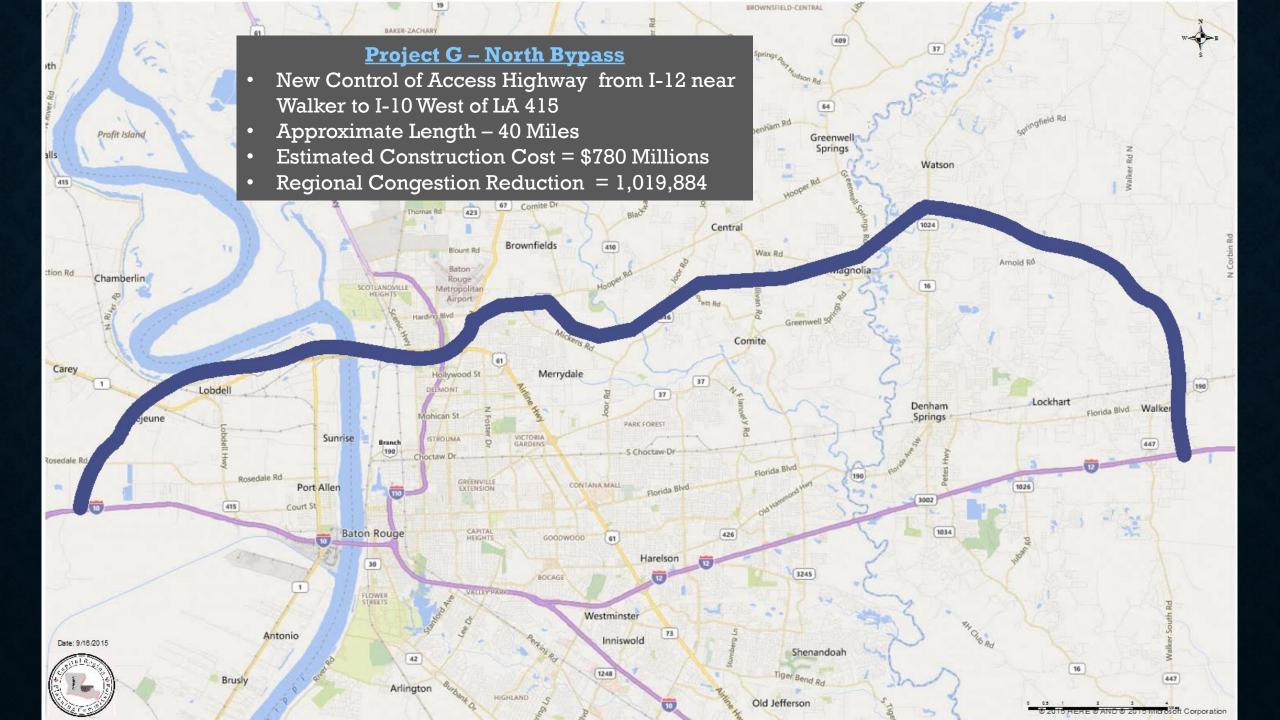


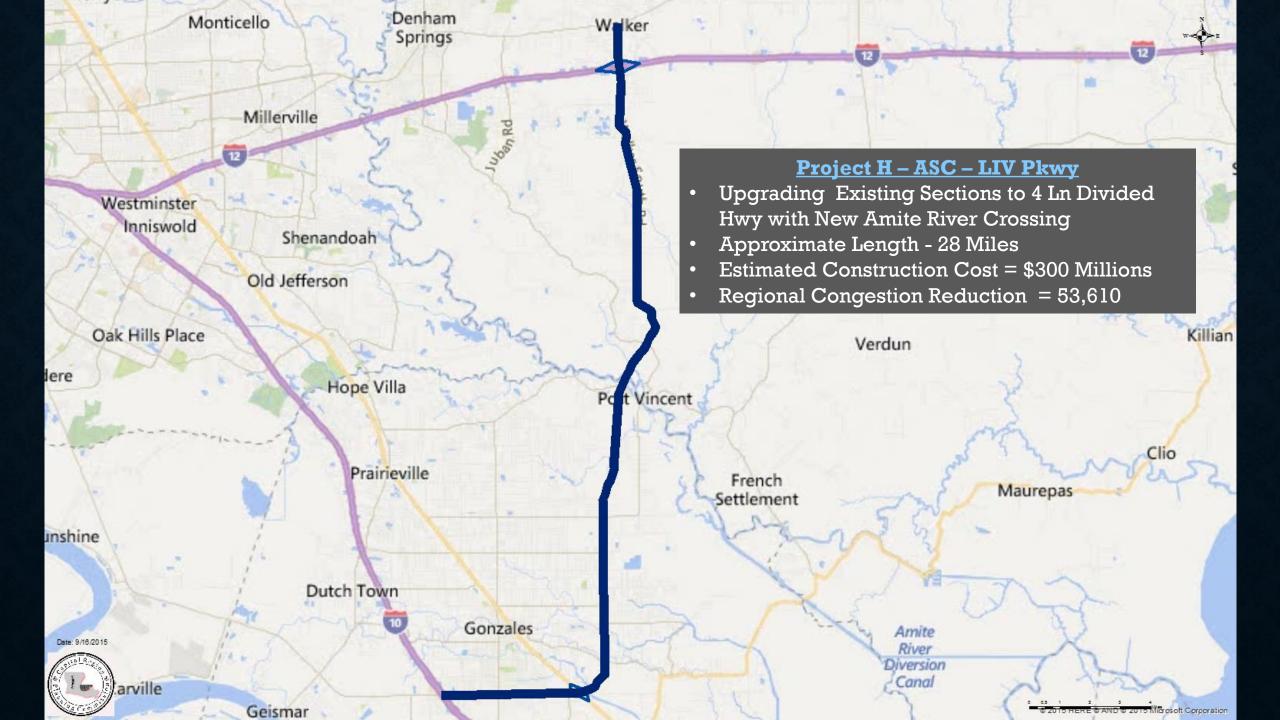


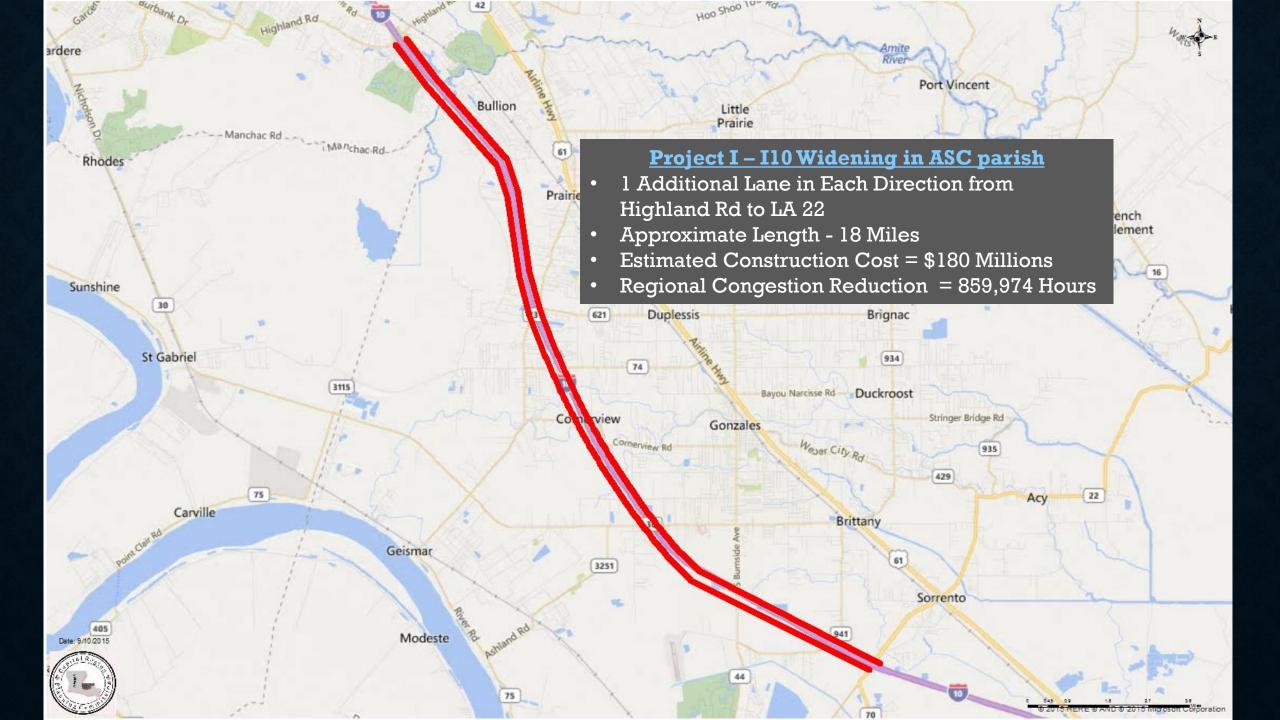


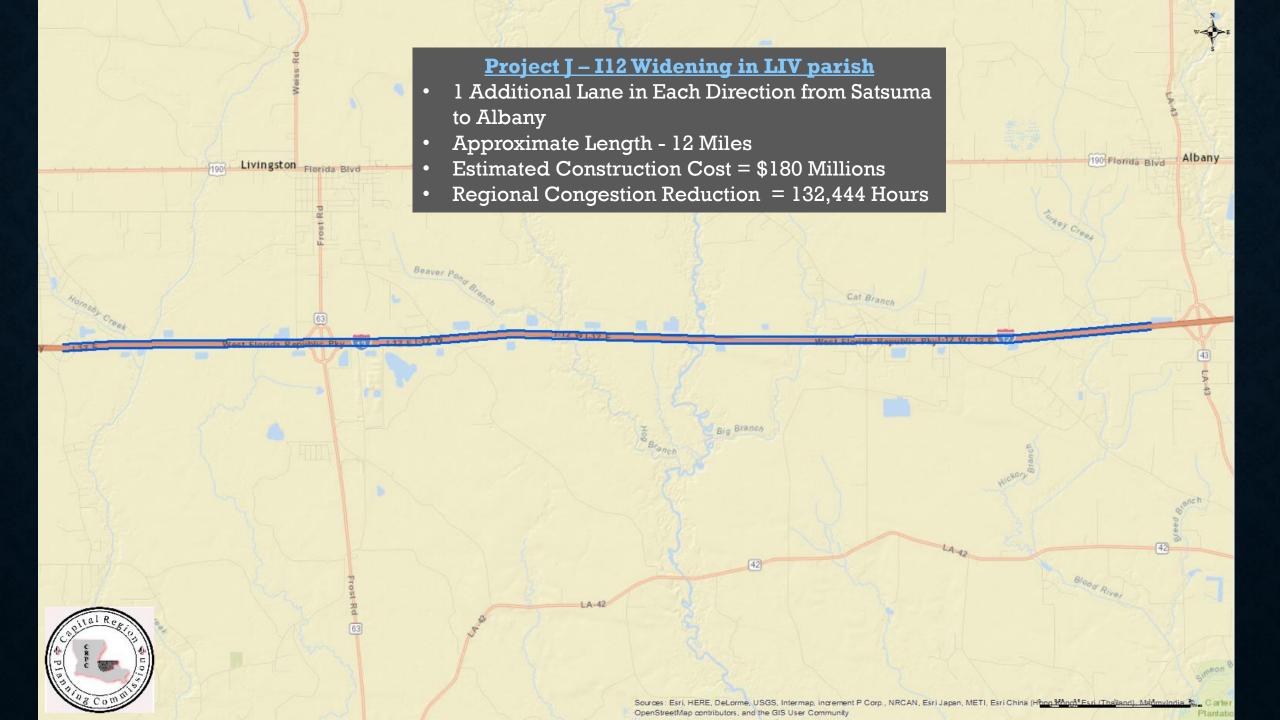


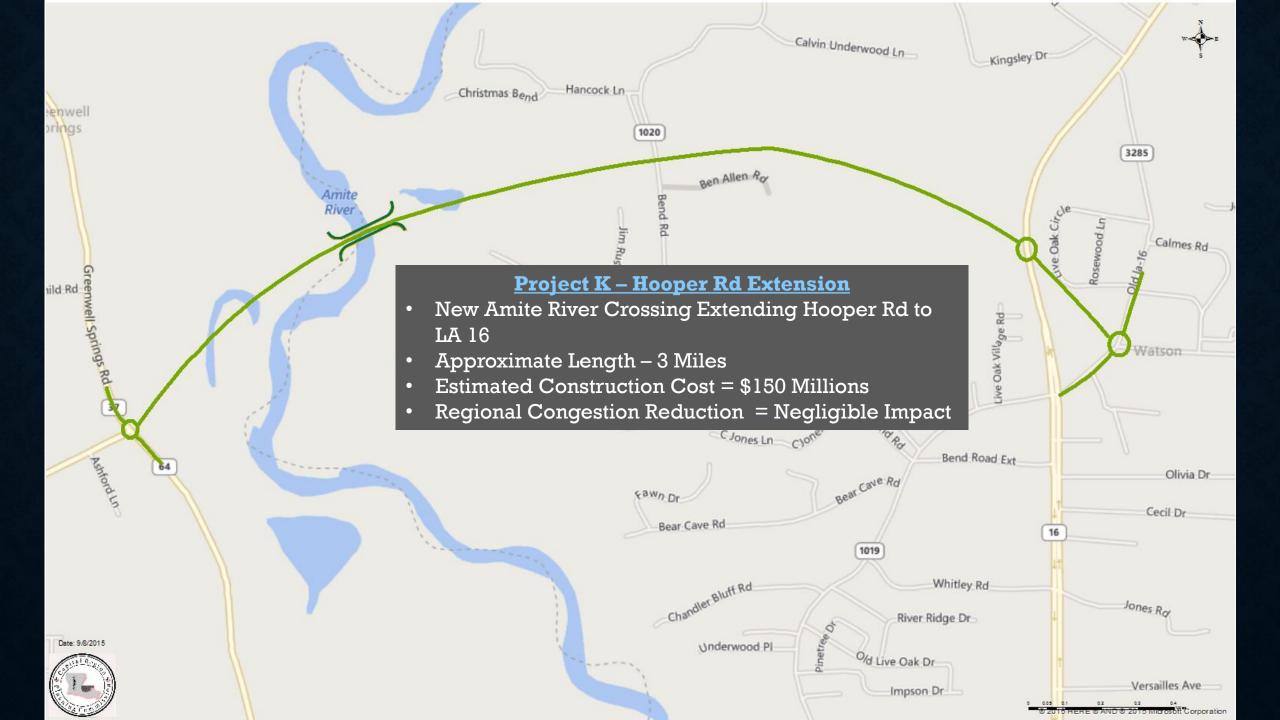


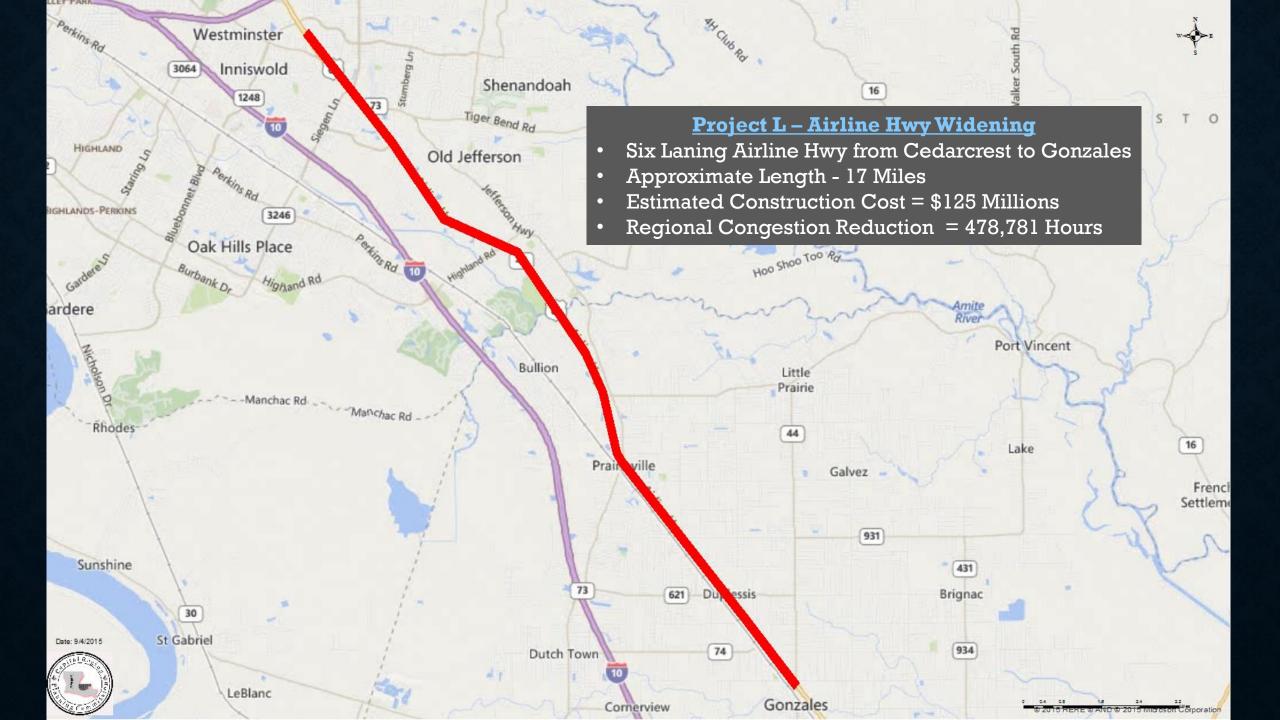


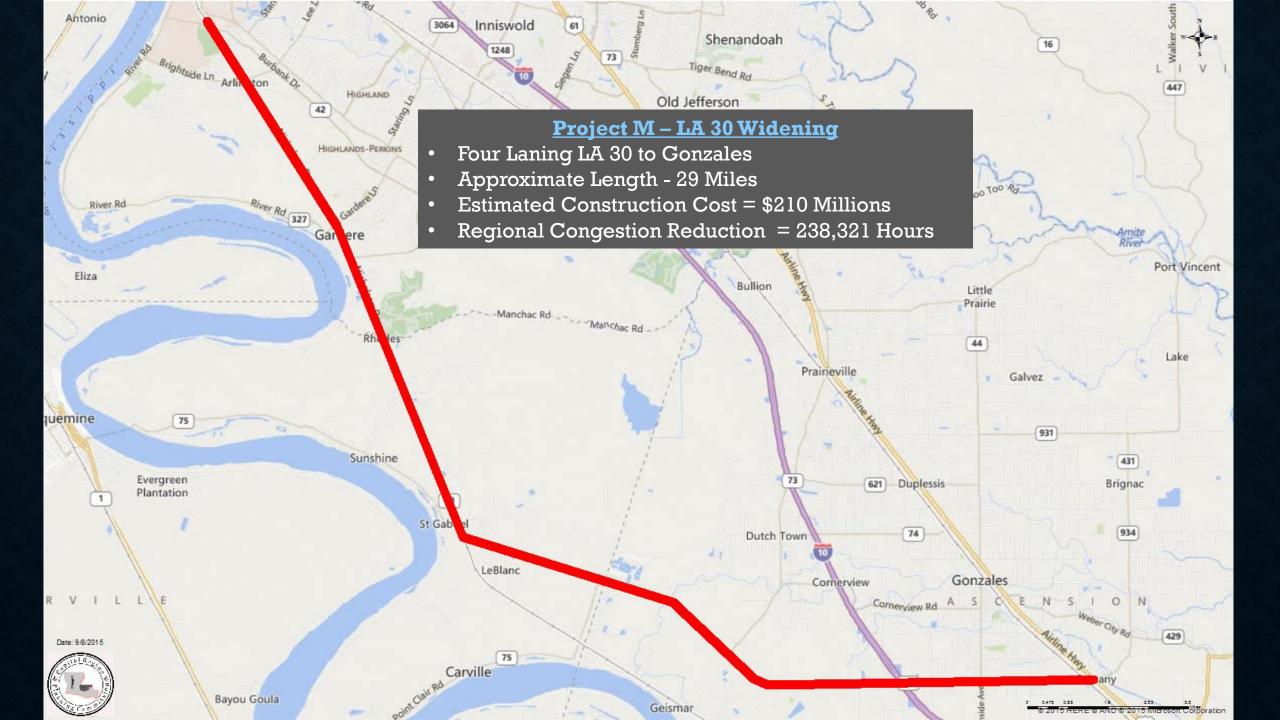


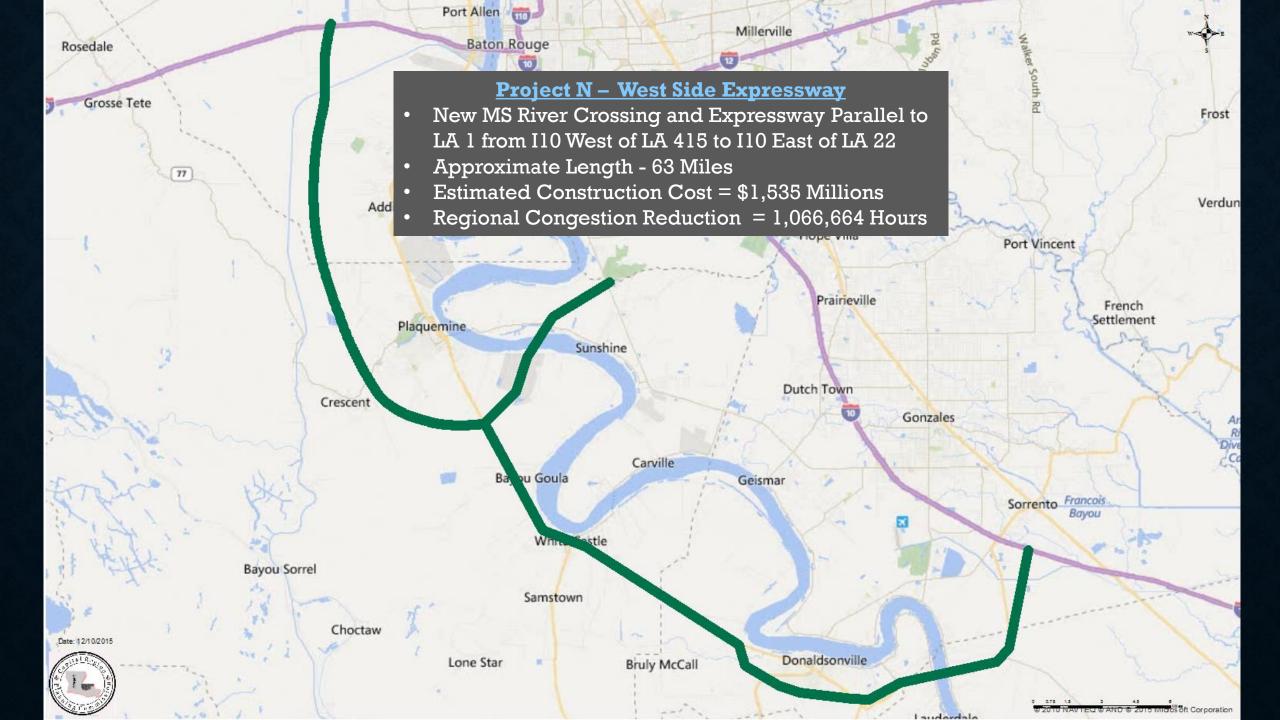


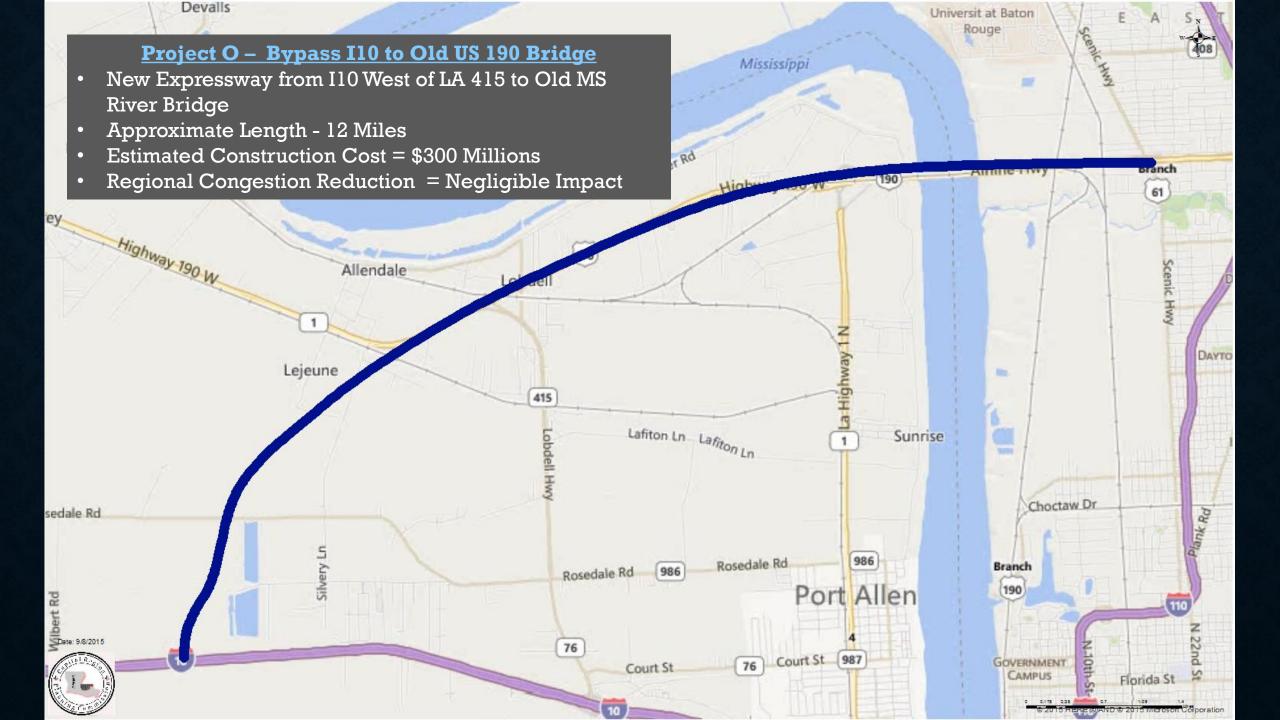


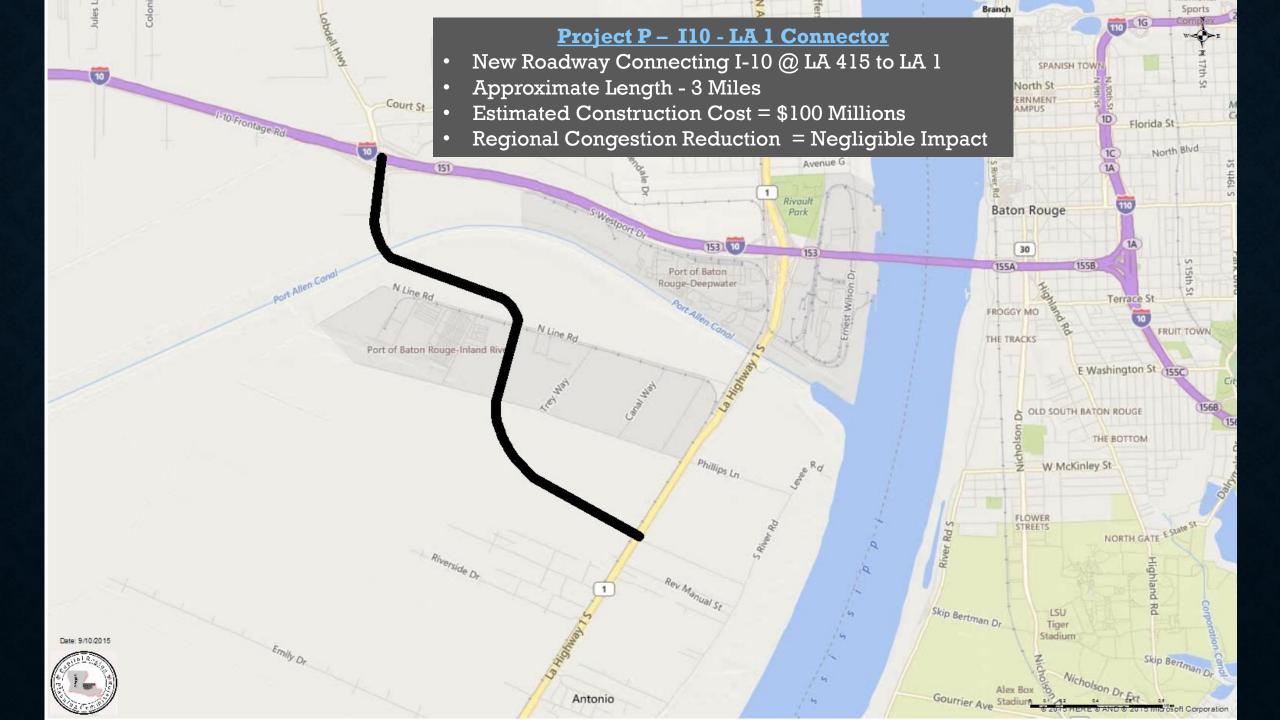


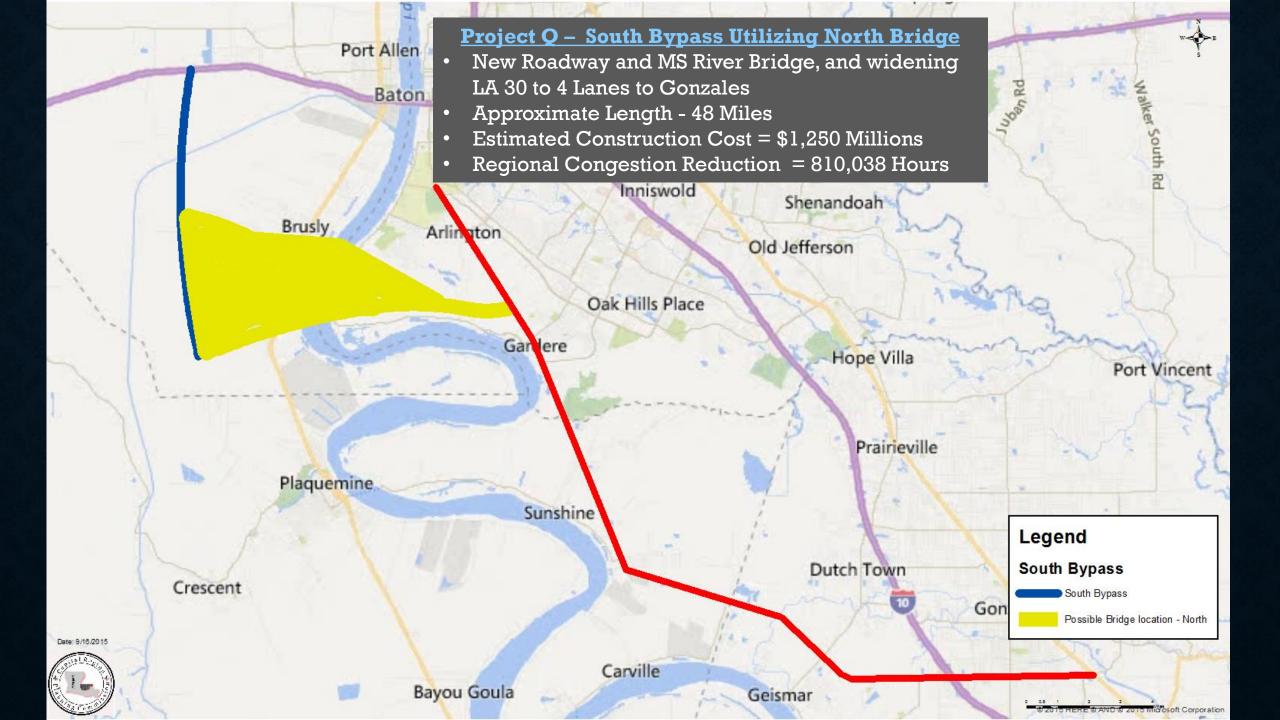


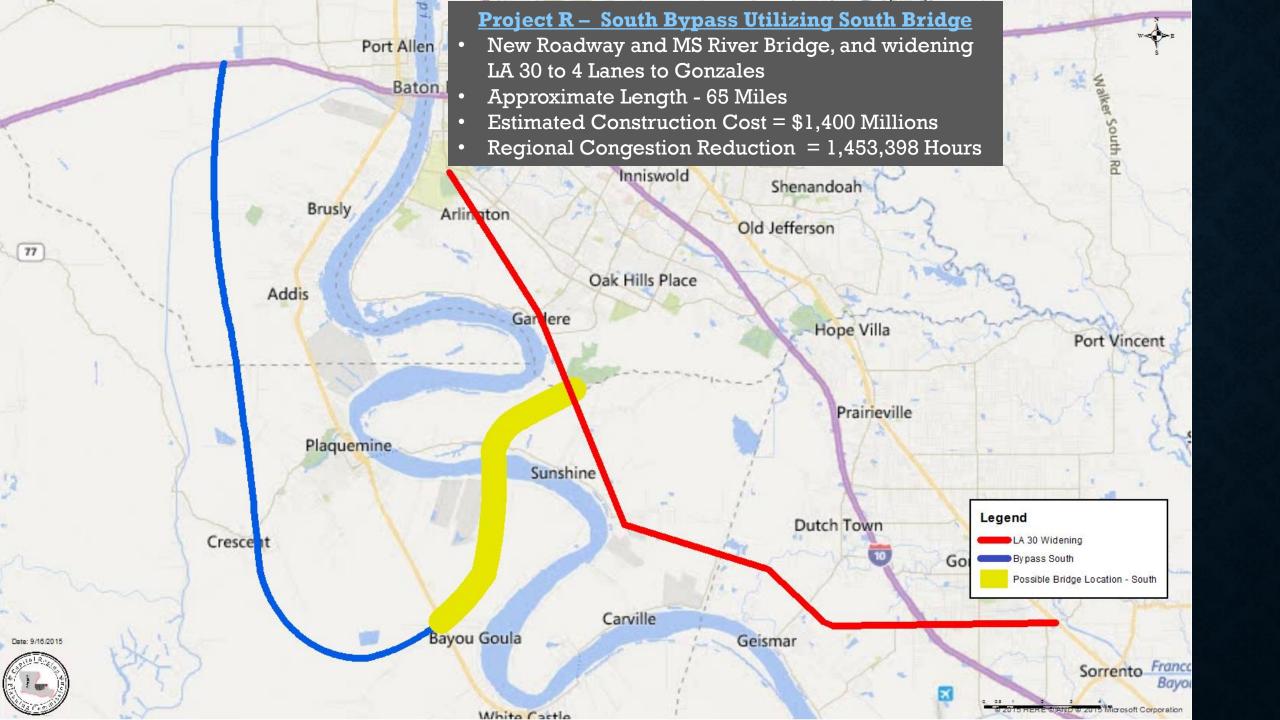


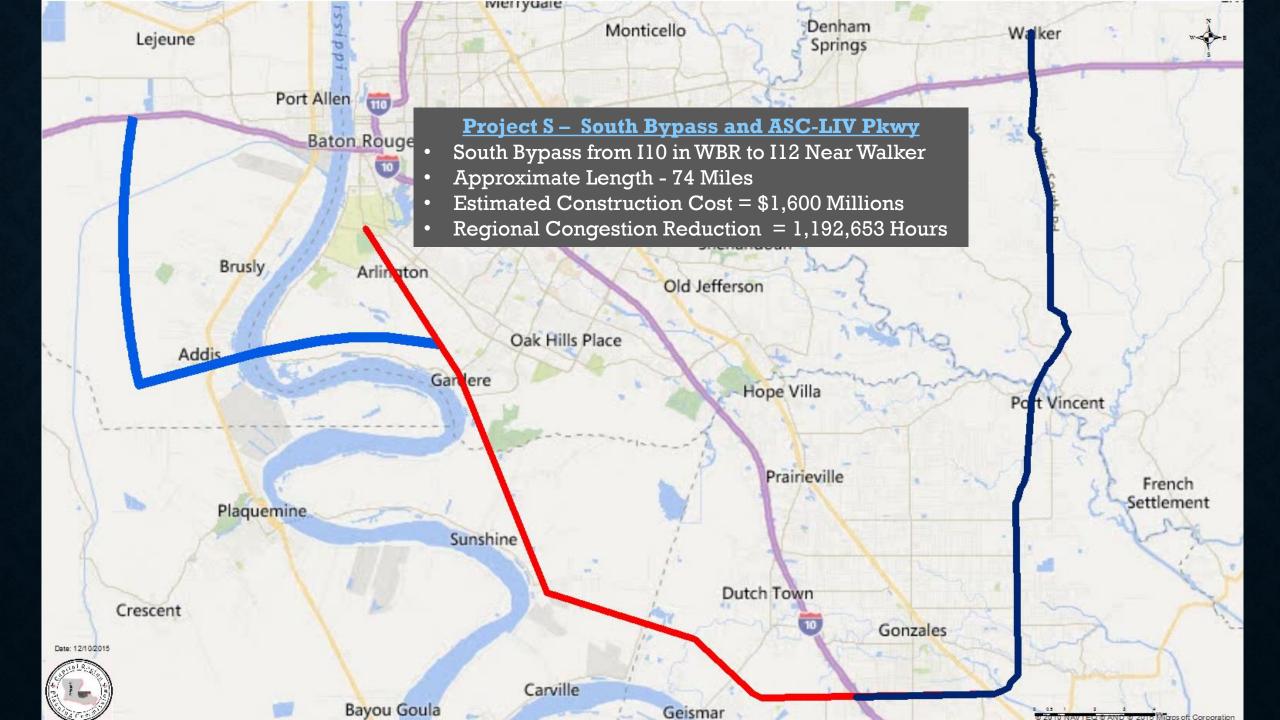


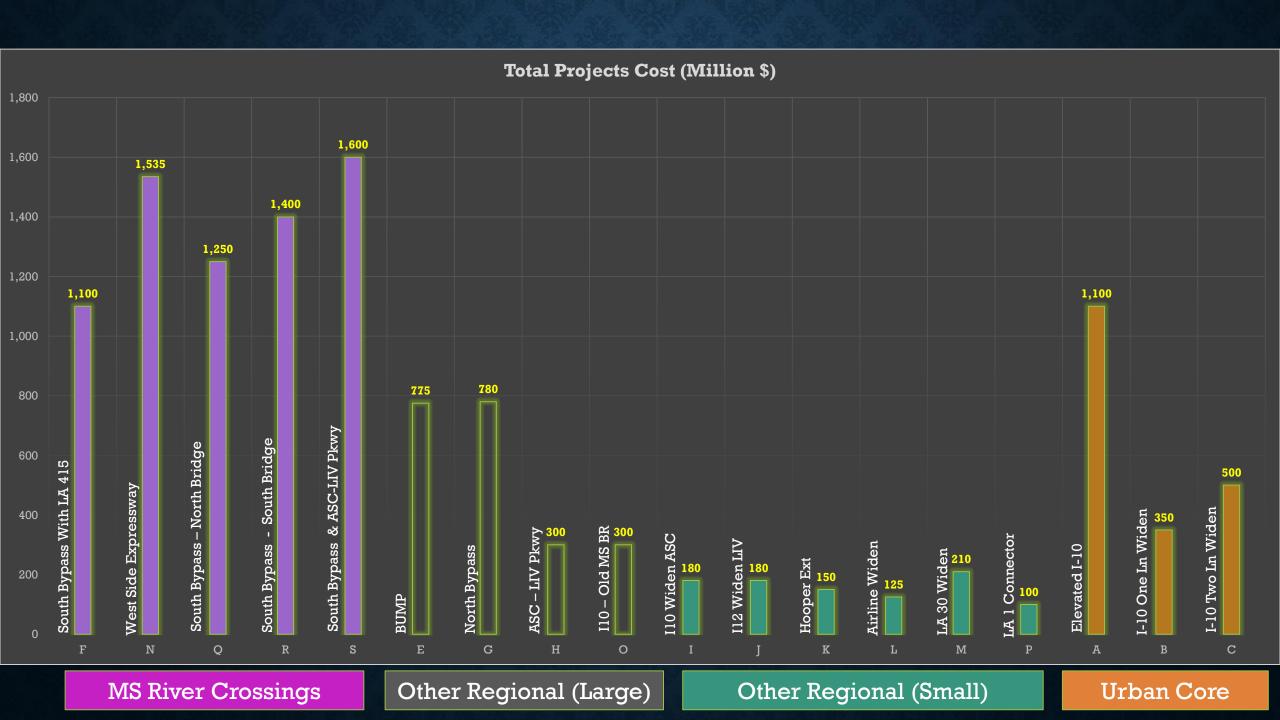


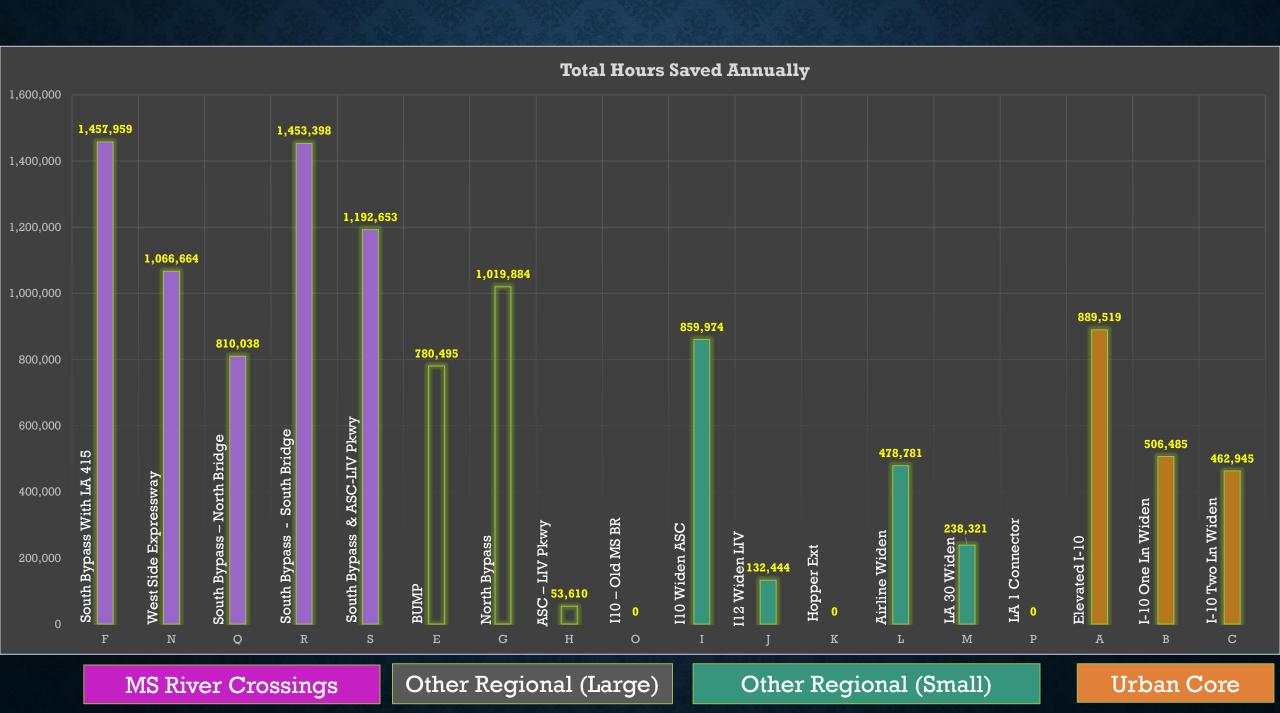


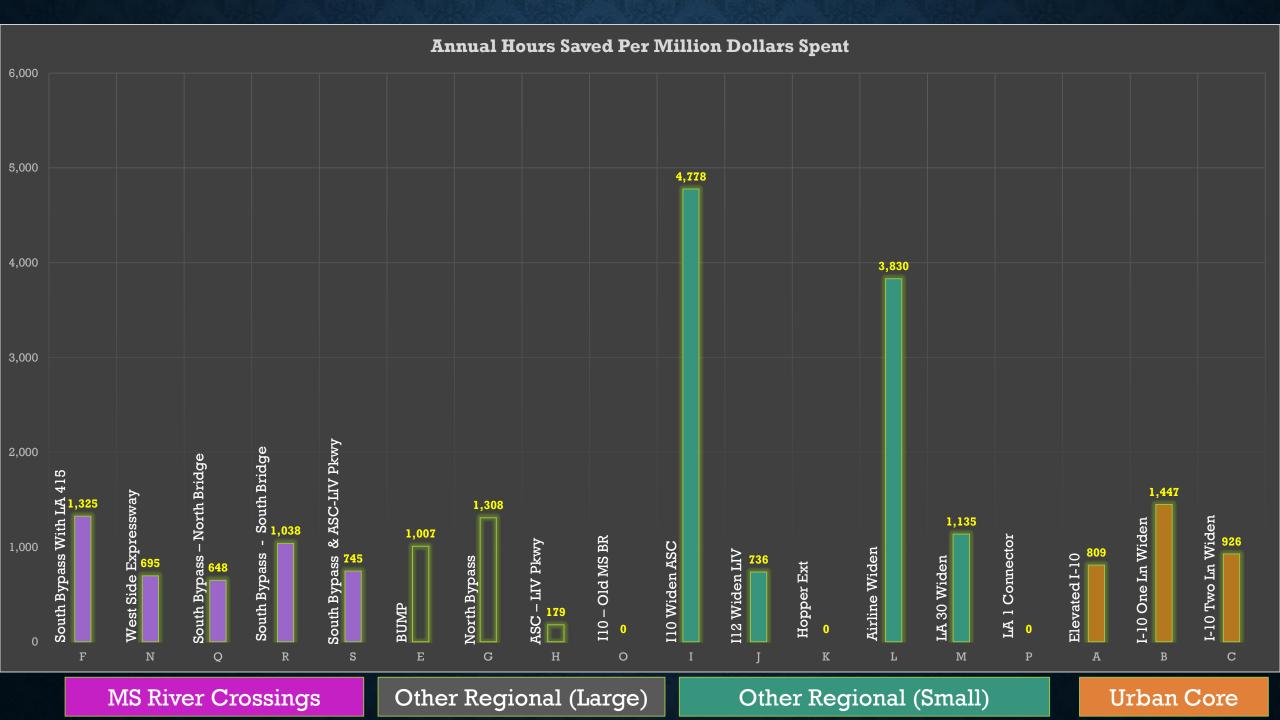


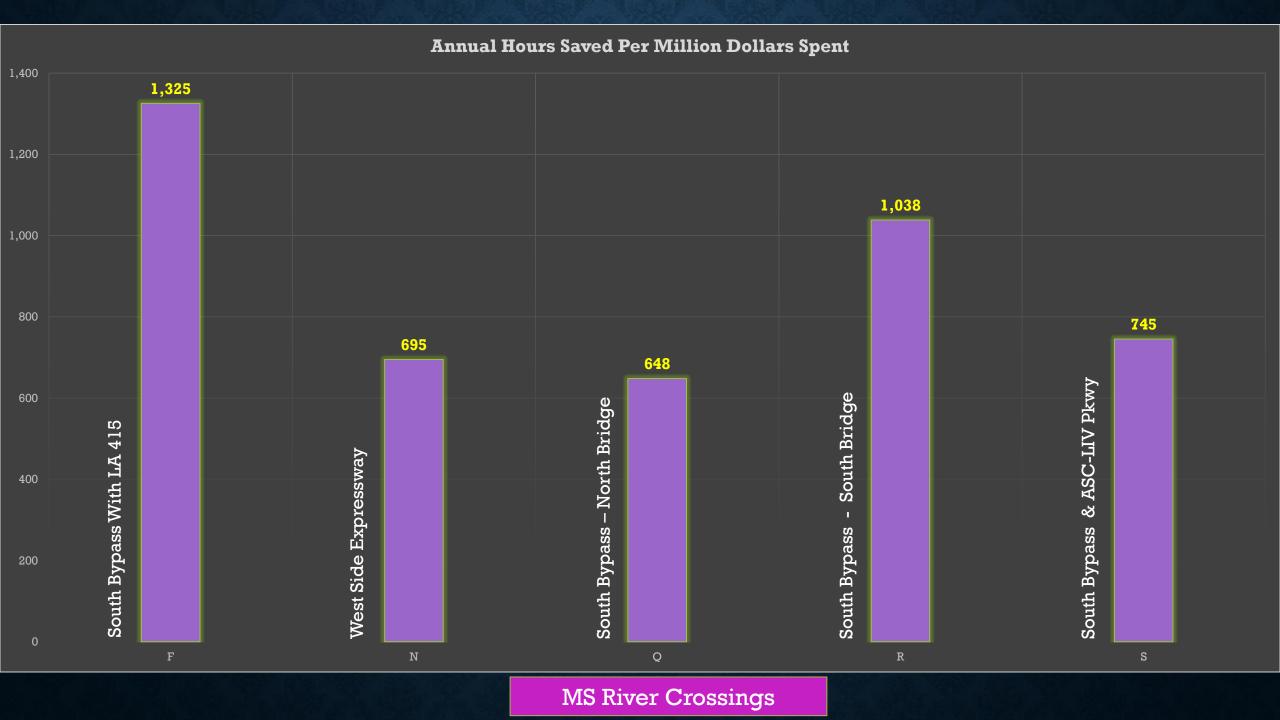


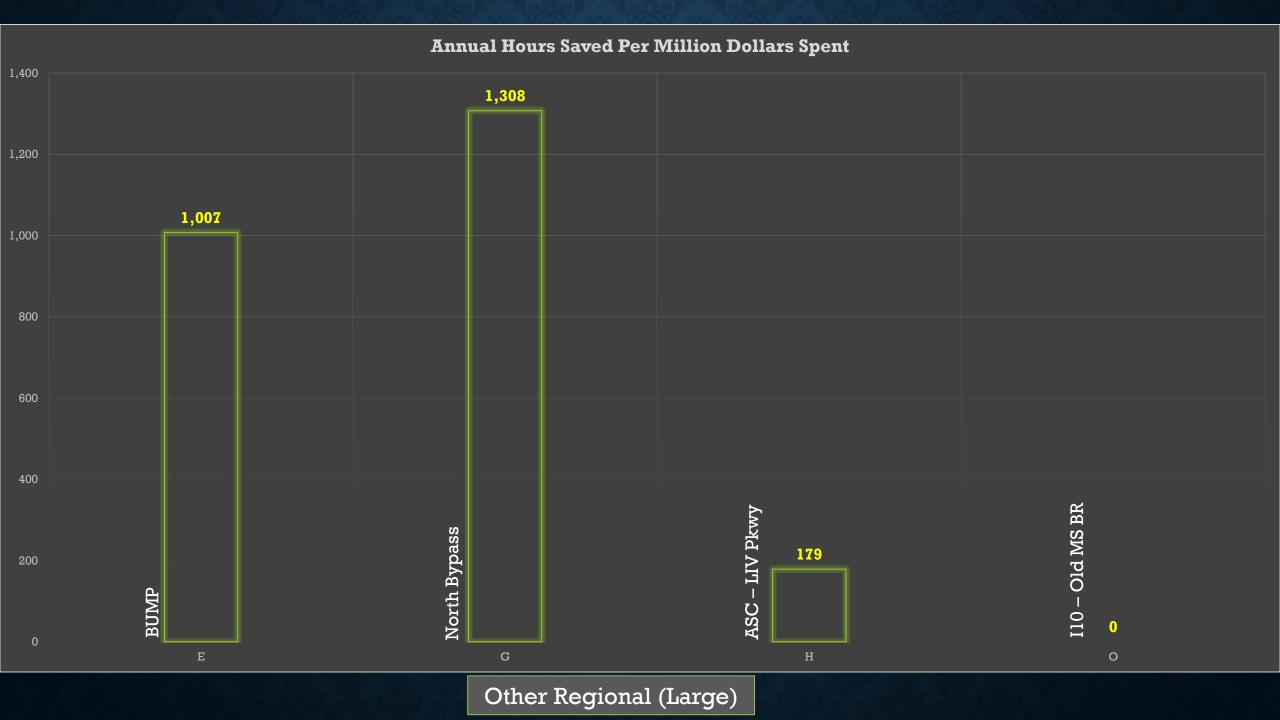


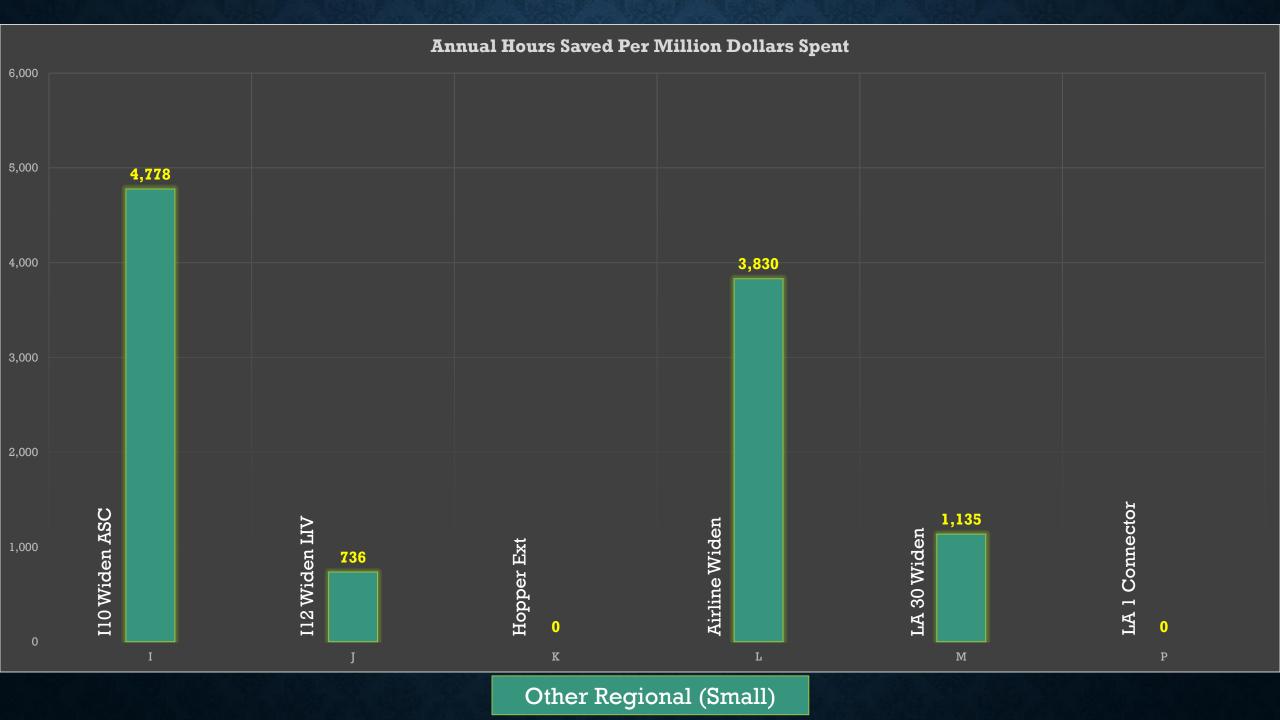


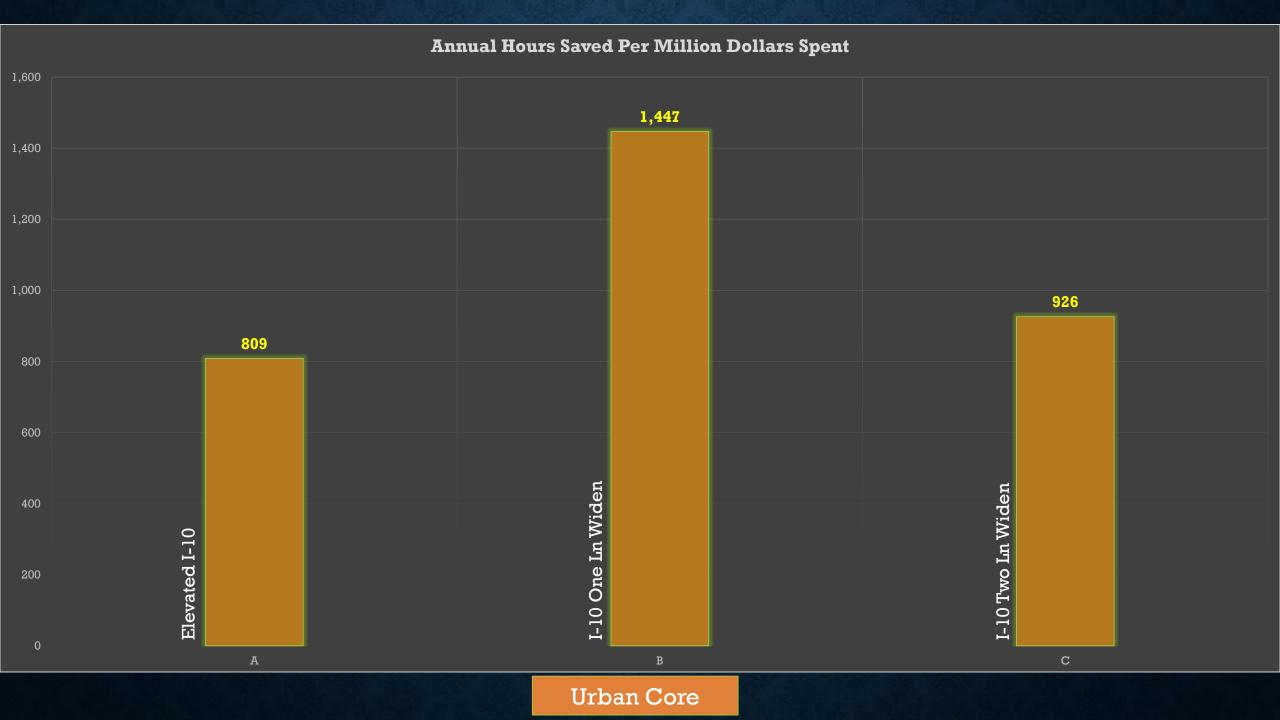






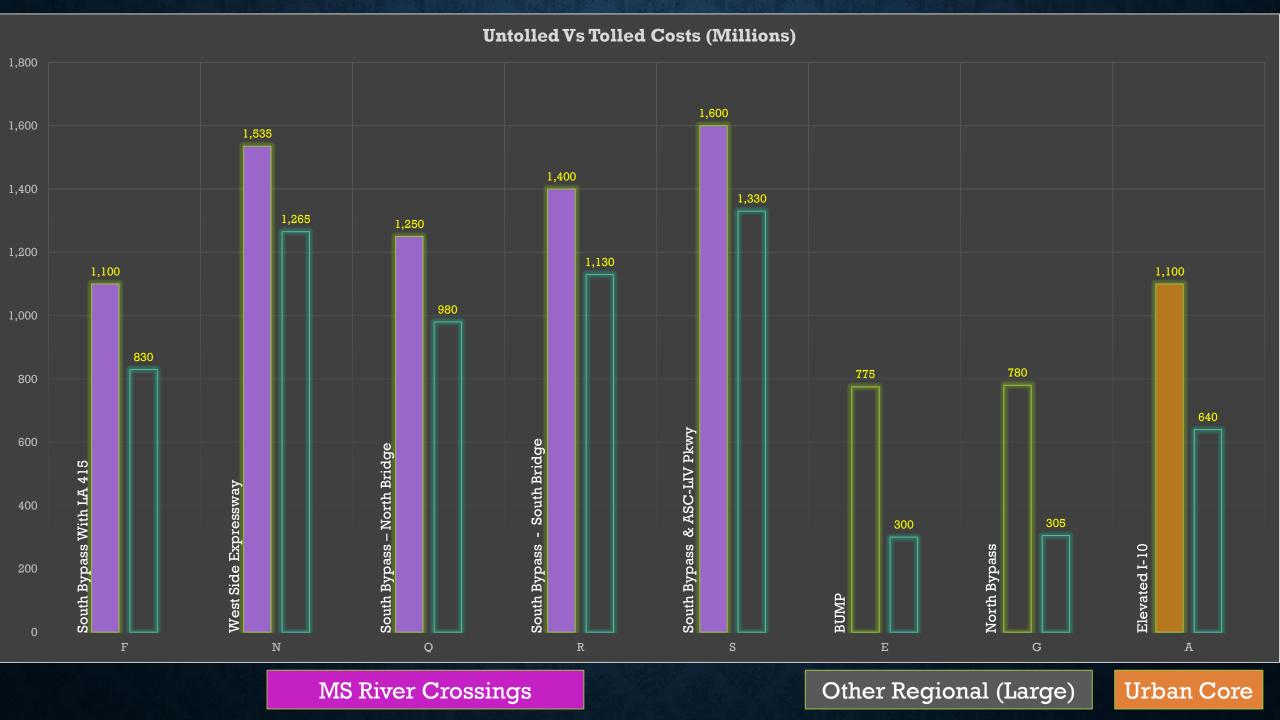




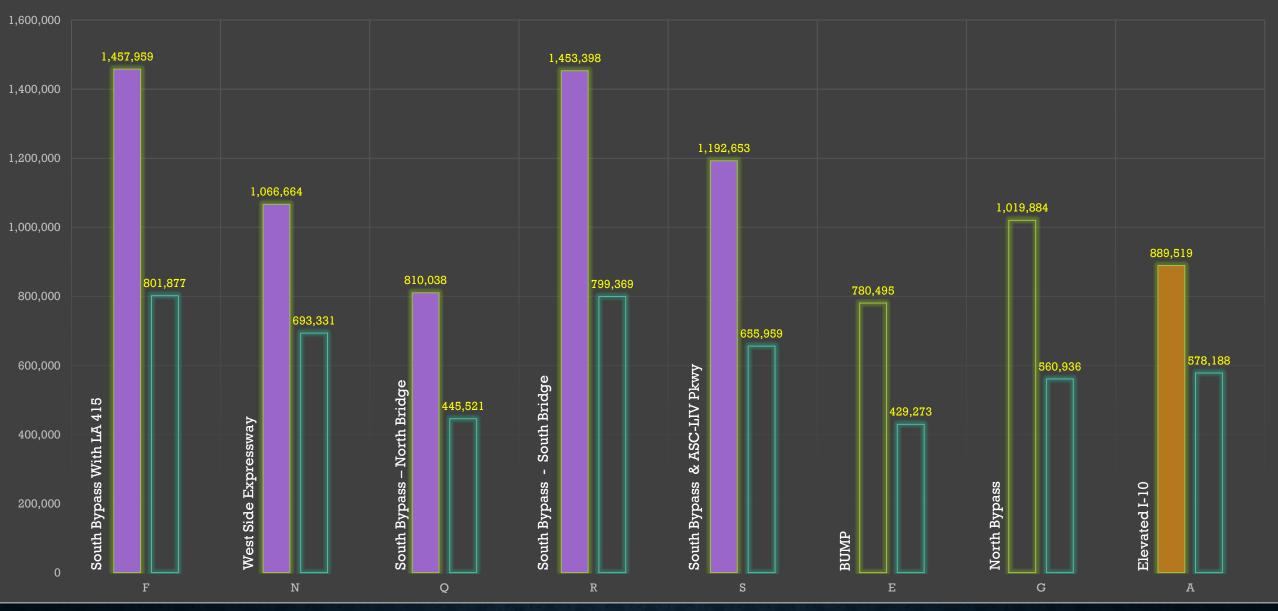


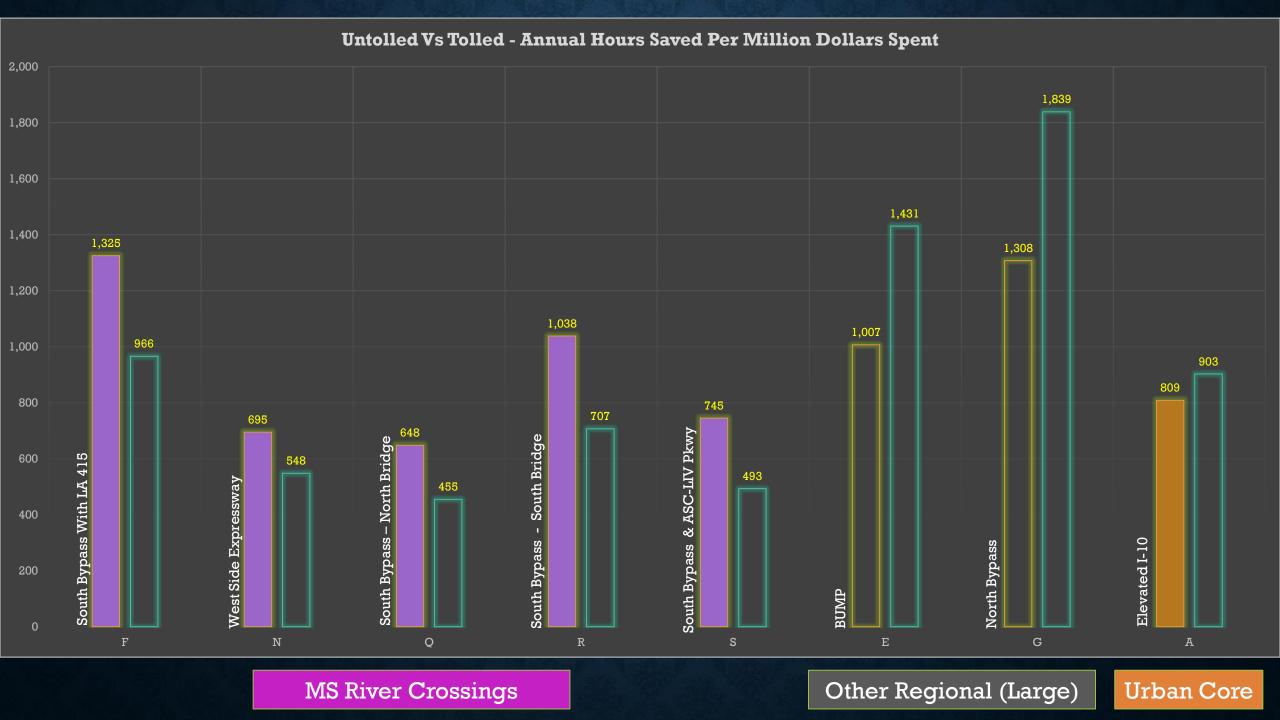
# **TOLLING ANALYSIS**

- 8 Projects identified for potential use of tolls to help finance
- Tolling has 2 affects on our data
  - Public dollars needed for the project is reduced
  - Some amount of traffic is diverted due to additional cost to the driver
- Tolls seldom pay for 100% of the project cost most feasible toll roads require 40% to 60% of the untolled cost



#### Untolled Vs Tolled - Annual Hours Saved





## GENERAL FINDINGS

- Multiple projects are needed for regional congestion relief
- Highest benefit projects involve crossing the Mississippi River (New bridge and increased use of old bridge)
- Best benefit/cost projects involve improving commute to Ascension Parish and one additional lane in both directions of I-10 through Baton Rouge
- Tolling can be a part of broader funding strategy with project tolling revenue projections ranging from 25% to 60% of project cost

#### REGIONAL SOLUTION

- I-10 Widening Through Baton Rouge
- Cost Range 350 M
- Ascension Commuter Route (I-10 or Airline)
- Cost Range: 125 M 180 M
- New River Crossing South of I-10 Bridge (With LA 30 Widening)
- Untolled Cost Range: 1,100 M 1,600 M
- Tolled Cost Range: 830 M 1,330 M
- Increase Use of US 190 Bridge (BUMP or North Bypass)
- Untolled Cost Range: 775 M 780 M
- Tolled Cost Range: 300 M 305 M