STRIDE | Southeastern Transportation Research, Innovation, Development and Education Center

Project Title – Comparative Analysis of Dynamic Pricing Strategies for Managed Lanes
University – University of Florida
Principal Investigator – Jorge Laval, Ph.D., Georgia Institute of Technology
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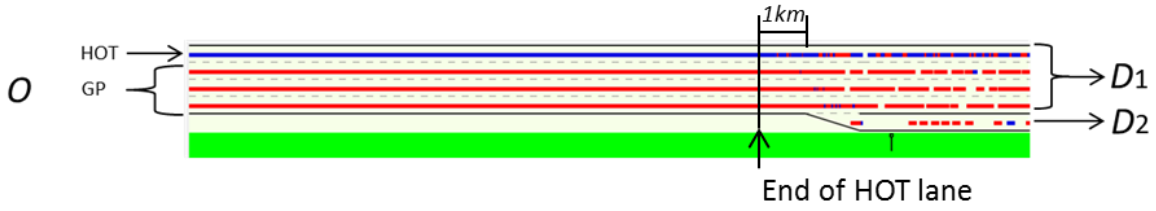
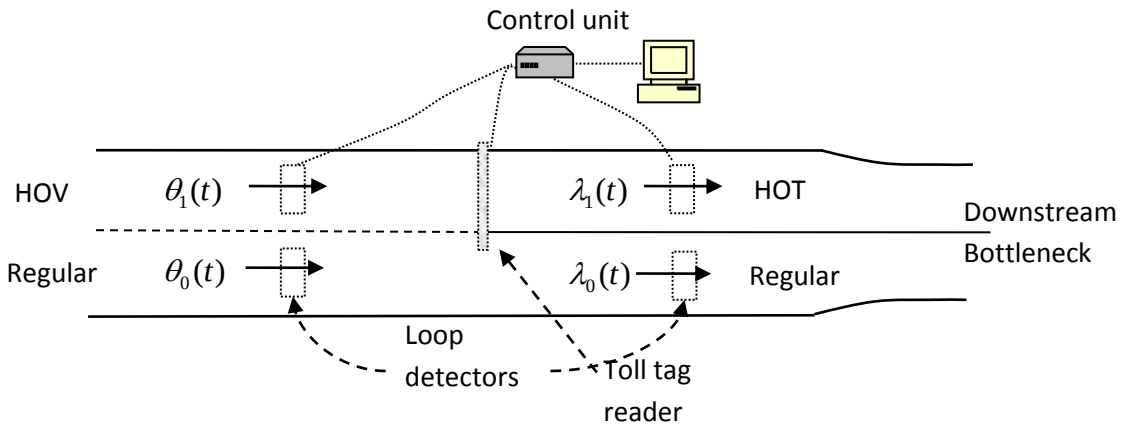
Funding Source(s) and Amounts Provided (by each agency or organization)
Total Project Cost – $409,050
Agency ID or Contract Number – 2012-089S
Start and End Dates – 7/1/12 to 6/18/2015
Brief Description of Research Project – The objective of this research is to investigate and compare the performances of different dynamic pricing strategies for Managed Lane (ML) facilities. Pricing strategies include real-time traffic responsive methods, as well as refund options and tradable credit schemes. Revenue and total delay in each alternative are derived as a function of the pricing strategy. Performances of pricing strategies are compared by simulation experiments.
Describe Implementation of Research Outcomes (or why not implemented) Field implementation was not part of the project. Field testing is needed before implementing the algorithms unveiled here.
Place Any Photos Here Diagram of simulation model. 



Impact/Benefits of Implementation (actual, not anticipated)

N/A

Final Report on STRIDE:

http://stride.ce.ufl.edu/uploads/docs/2012_089S_STRIDE_FINAL_REPORT_Laval_final.pdf

Final Report on TRB/TRID: https://trid.trb.org/view/2015/M/1360024