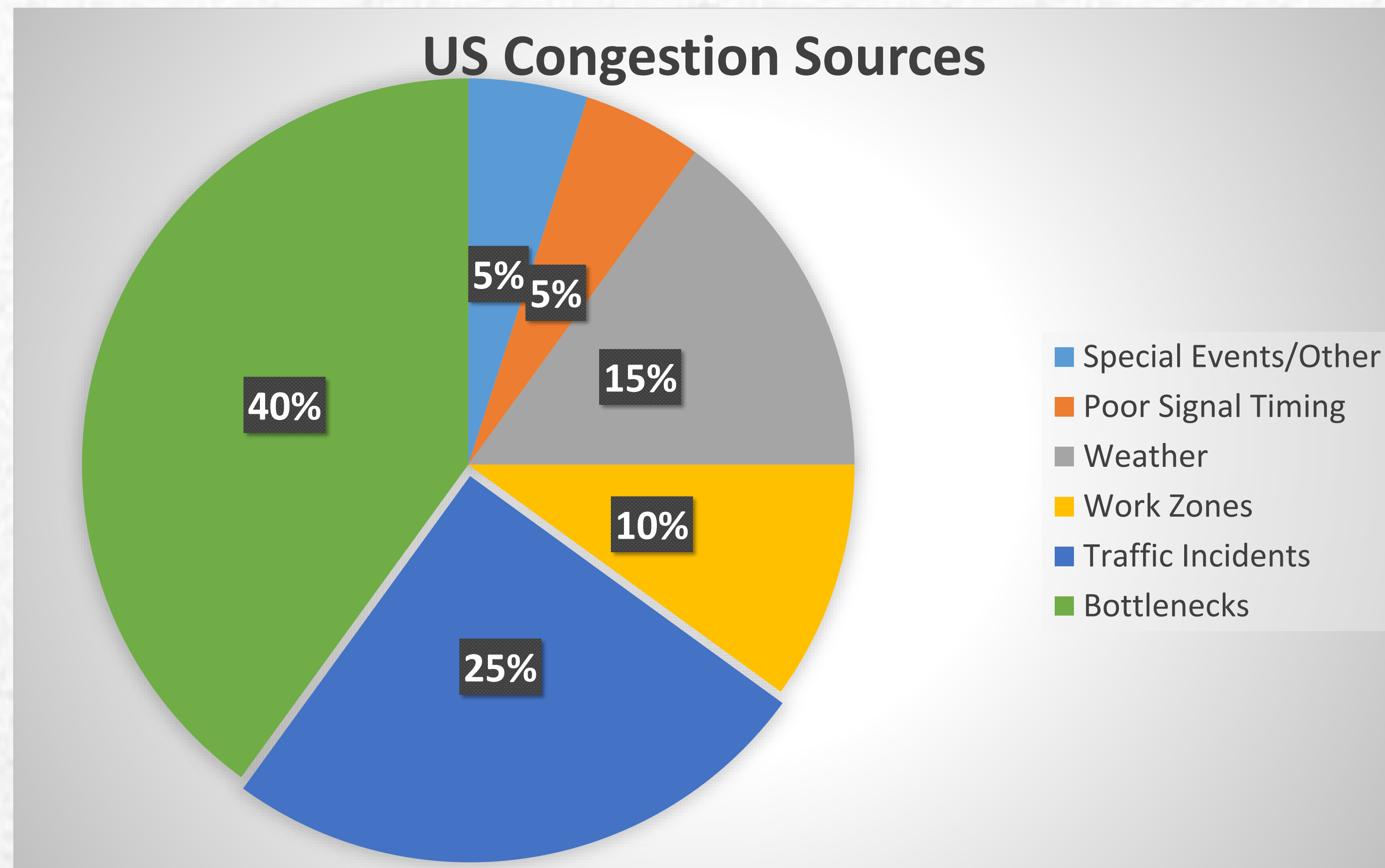


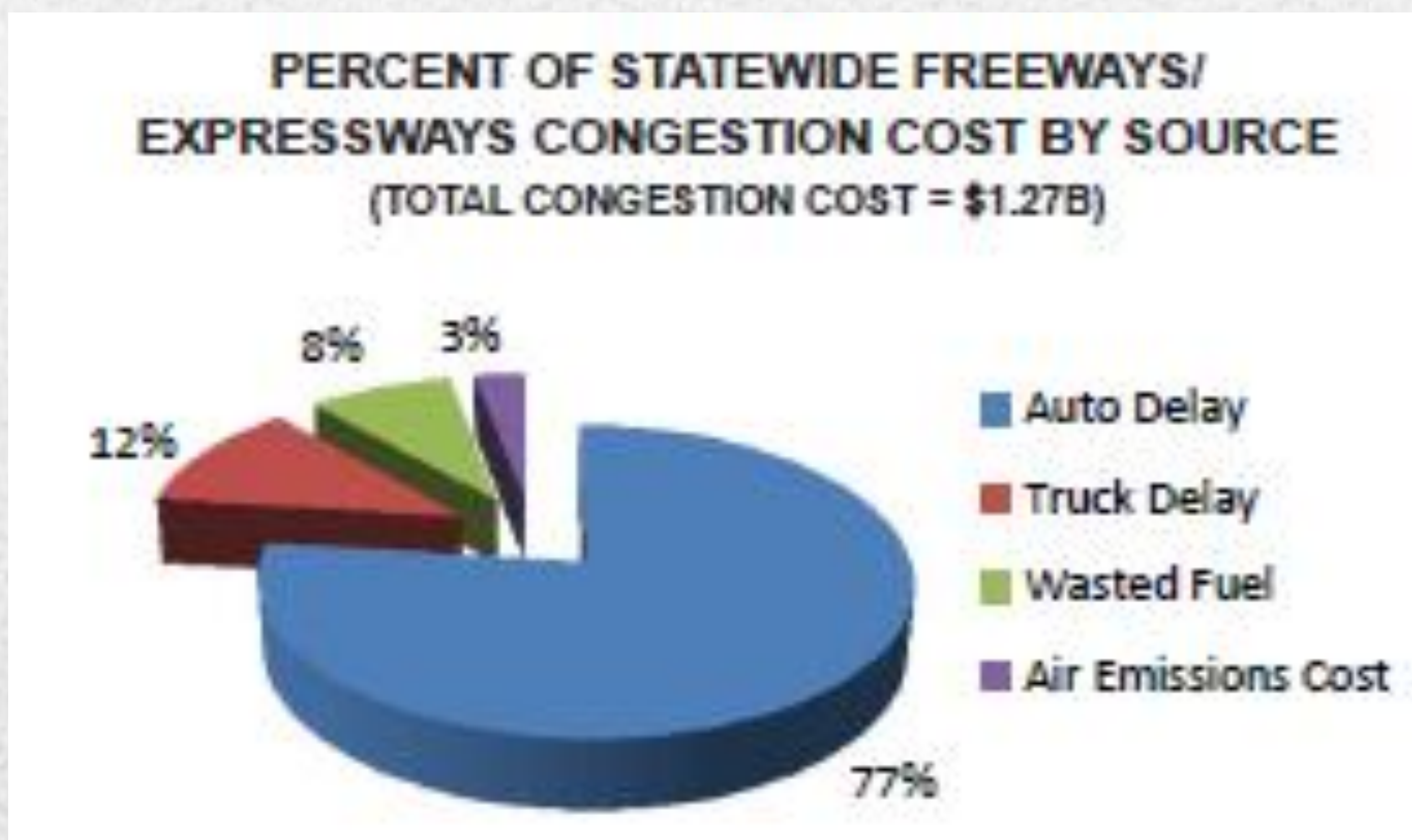
Relation to Economic Competitiveness

Economic Costs of Congestion

National: \$121Billion, \$818 per commuter



State of Maryland:



The metropolitan Washington, D.C. region ranked as the most congested city in the us in 2011.

Related Work at NTC@Maryland

Quantifying the Cost Effectiveness of Freeway Service Patrol Programs



Integration of Variable Speed Control and Travel Time Information to Minimize Recurrent Highway Congestion

HOV Lane Performance Monitoring System



Congestion Mitigation Strategies

Connected and Automated Vehicles

Active/Integrated Traffic Management

- Advanced Traffic Signal Control
- Variable Speed Limits
- Managed Lanes
- Traveler Information Systems

Demand Management Strategies

- Tele-Working and New Technology
- Flexible Work Hours
- Car-pooling
- Increased Public Transportation
- Dynamic Tolling



Data Collection of Freeway Travel Time Ground Truth with Bluetooth Sensors

Integrated Management of Maintenance and Traffic

