



# Non-Tax Based Financing of Transportation Infrastructure VMT(MBUF), Tolls

**Massoud Moradi PhD, PE, AICP**  
**Vice President**  
**Atkins**



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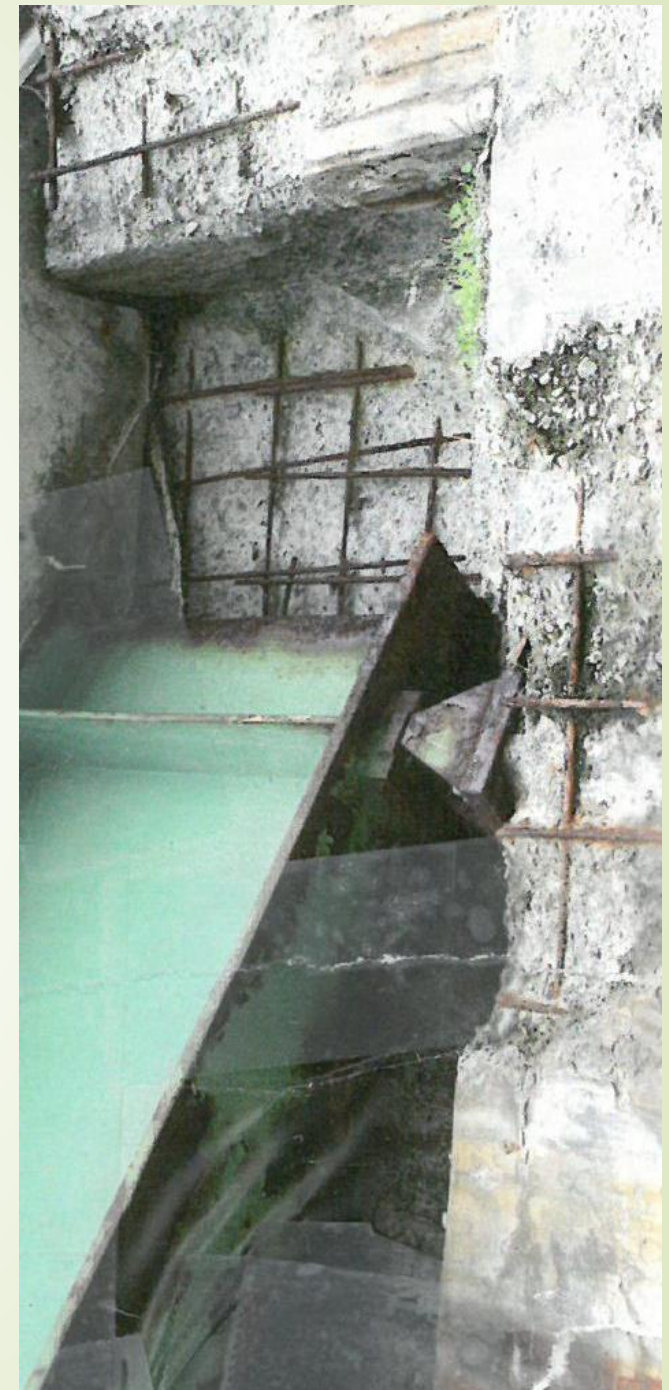


# Outline

- I. State of American Roads
- II. Status quote
- III. VMT(MBUF/RUC)
- IV. Tolling (Managed Lanes, etc)
- V. Conclusion

# State of American Roads

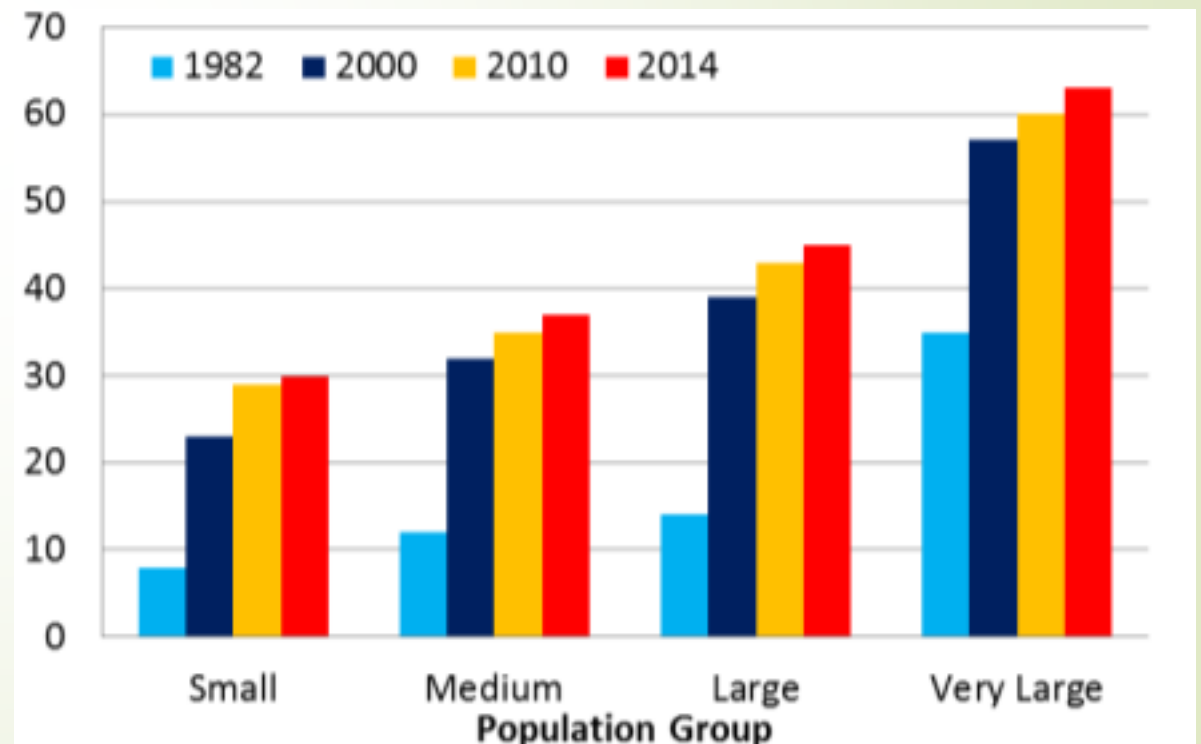
- TAMU 2015 Urban Mobility Report
- ASCE



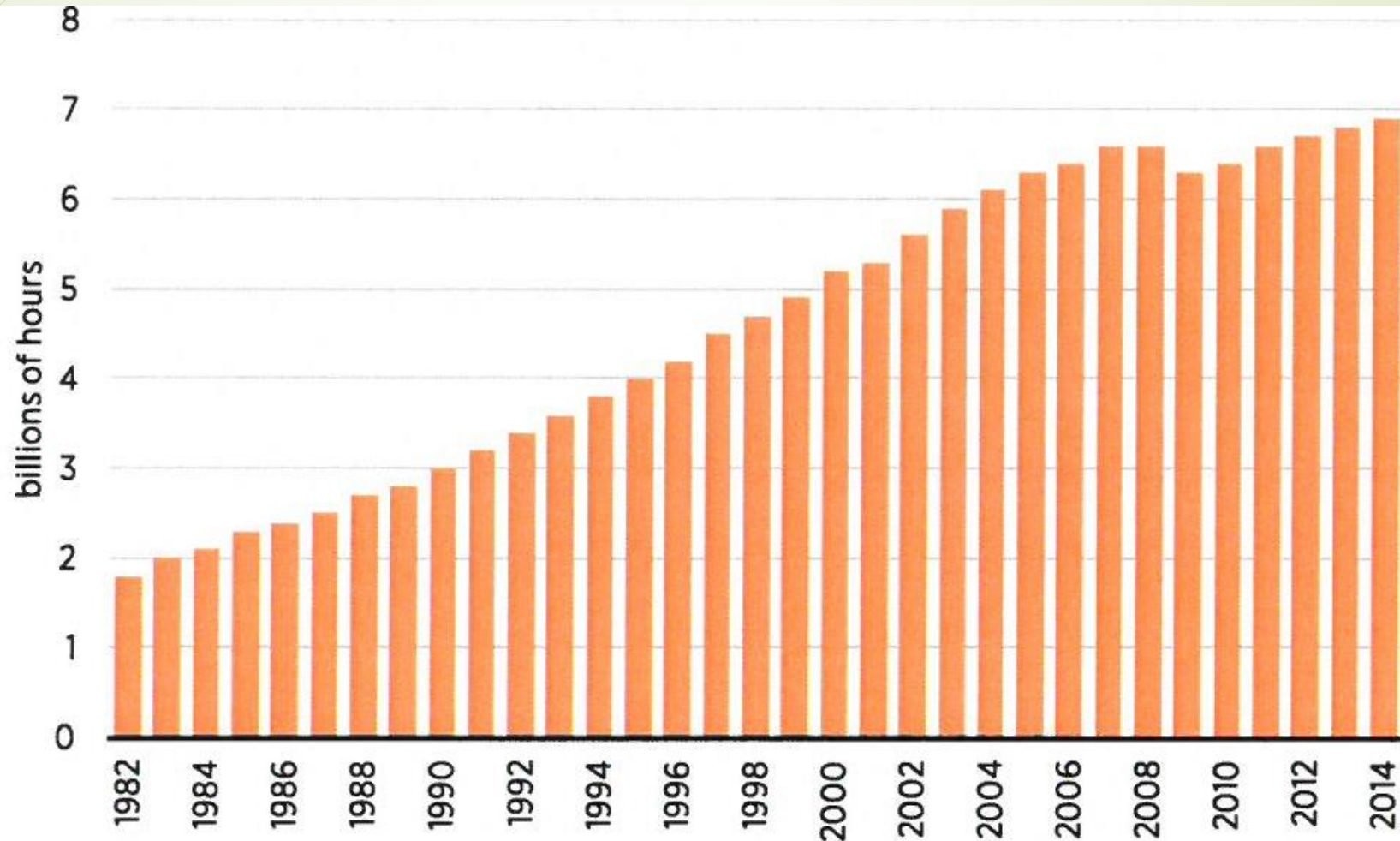
# TAMU Annual Urban Mobility Report Card

Texas A&M University & INRIX, INC.  
471 Urban areas  
Speed and travel times  
Latest version August 2015

Congestion Growth (Delay per auto commuter, HPP)

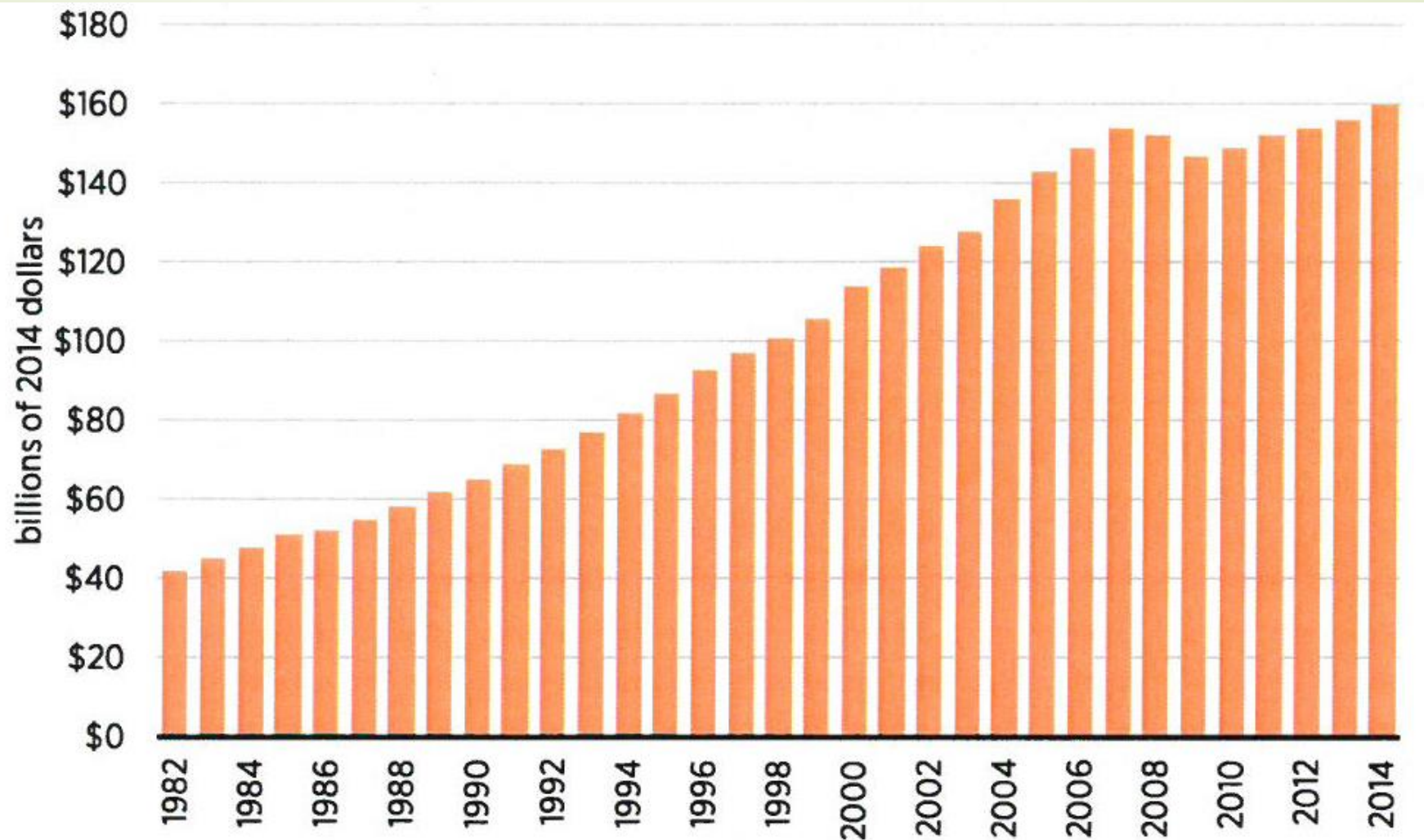


# Total Delay (1982-2014)



Source: Based on David Schrank, Bill Eisele, Tim Lomax, and Jim Bak, *2015 Urban Mobility Scorecard* (College Station, TX: Texas A&M Transportation Institute and INRIX, 2015), exhibit 2.

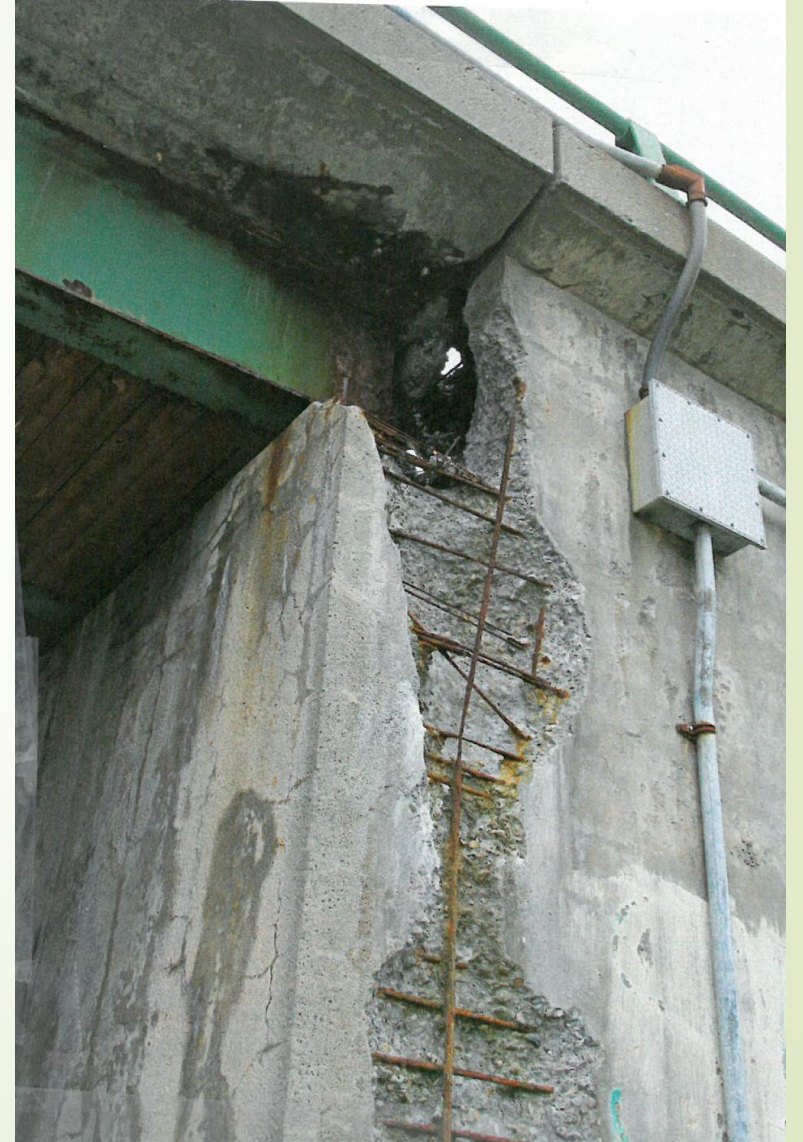
# Cost of Congestion(1982-2014)



Source: Based on David Schrank, Bill Eisele, Tim Lomax, and Jim Bak, *2015 Urban Mobility Scorecard* (College Station, TX: Texas A&M Transportation Institute and INRIX, 2015), exhibit 2.

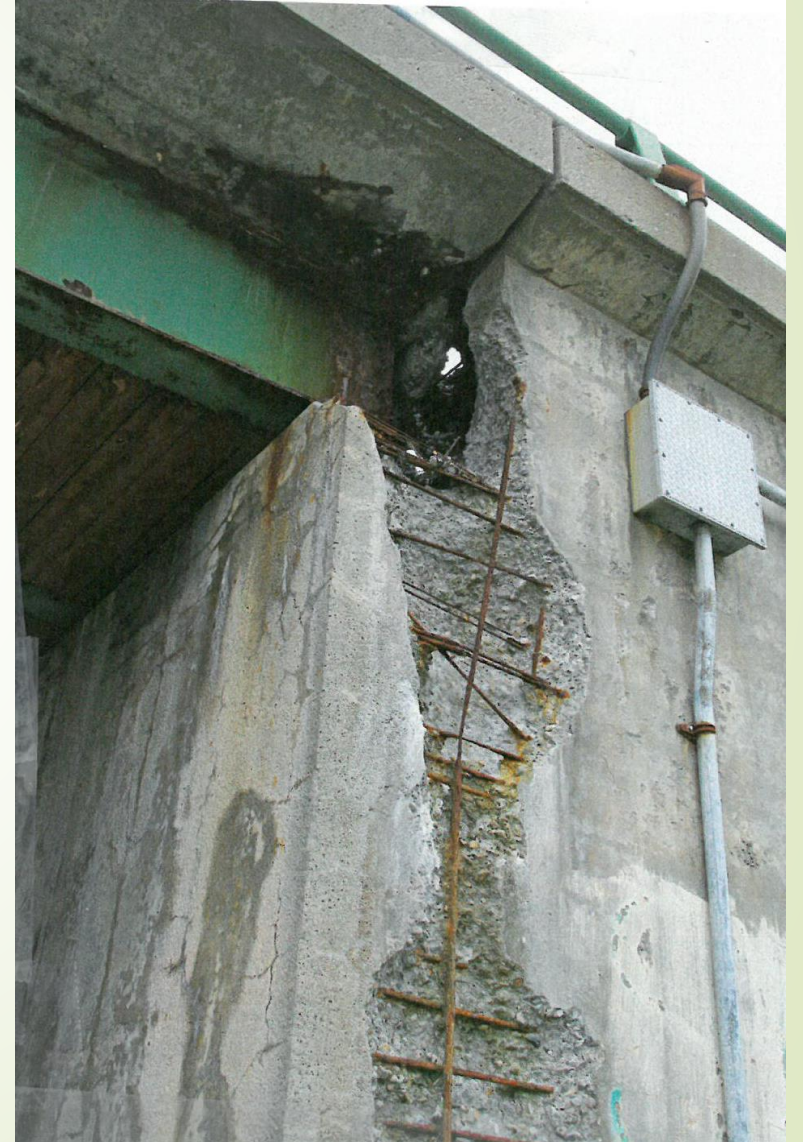
# ASCE Report

- Every Four year
- Report Card for America's Infrastructure
- Latest version 2013
- Utilizes a simple A to F format
- Since 1998 the grades have been near failing, averaging only Ds.



# ASCE 2013 Report

- 32% major roads in poor or mediocre condition
- 42% of major urban highways remain congested
- Costing \$101B in wasted time and Fuel
- \$170B in Annual Capital investment by FHWA is needed to improve condition and performance





# Status Quote

- I. Federal Fuel Taxes not increased since 1992
- II. VMT increasing steadily
- III. CAFÉ standards Improving fleet fuel efficiency
- IV. Rapid growth of Hybrids and EV
- V. Increasing ROW, Construction, O&M Costs





# VMT/MBUF/RUC

- I. Not A **Tax** but a **Fee**
- II. Fair
- III. Technology supported
- IV. Privacy concerns becoming irrelevant
- V. Adaptive (Congestion pricing: TOD, Area, Vehicle Class, Facility)
- VI. OBU, Roadside ?



# VMT/MBUF/RUC

- I. Oregon
- II. California
- III. Other States
- IV. Pilot Projects

# Tolls, Managed Lanes, ETC

- I. \$20 B in Toll revenue in 2015
- II. National Interoperability
- III. No Lexus Lane Myth
- IV. Managed lanes projects (implemented and planned)
- V. Advancement in Collection technology, ALPR/Video Tolling
- VI. Social acceptance/Privacy Issue?




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**LEGEND**

 31 U.S. TOLL FACILITIES SURVEYED

 TOLL AUTHORITIES WITH RECORD-BREAKING TRAFFIC VOLUME IN 2015

 STATES WITH TOLLING

Map by: Peta Vector Maps.com

# INCREASE IN THE NUMBER OF TRIPS & TRANSACTIONS

## ON TOLL FACILITIES IN 2014-2015

\* 31 Toll Facilities Surveyed in the U.S.

### TOTAL TRIPS & TRANSACTIONS

[ UNITS IN BILLIONS ]

1 2 3 4 5 6

YEAR  
2015

5 BILLION



7%

YEAR  
2014

4.7 BILLION



# Conclusion

- I. Status quote: Not Sustainable
- II. Tolls/Managed Lane Doing more than their parts
- III. MBUF gaining traction, But needs more inertia to become a replacement for the current per gallon fuel Tax
- IV. A transition to MBUF at a larger scale can pave the way
- V. Washington is broken and cannot stop partisan bickering.

