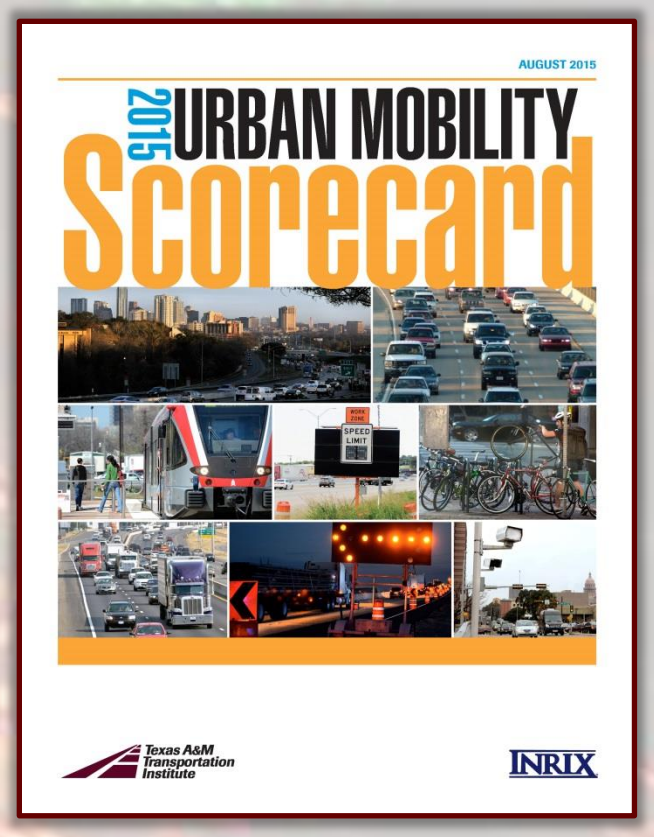
TTI URBAN MOBILITY SCORECARD

2015 Report



Presented by:

Keith Nichols, PE
Principal Transportation Engineer,
TTAC Agenda Item #14
October 7, 2015

INTRODUCTION

- The TTI Urban Mobility Scorecard report evaluates mobility levels and traffic congestion in all 471 metropolitan areas throughout the U.S.
- TTI determined mobility levels using INRIX roadway speed data as well as traffic counts and roadway characteristics collected from FHWA's Highway Performance Monitoring System (HPMS).
- The report includes various recommendations to reduce and manage congestion.
- The Urban Mobility Scorecard report is available on TTI's website at http://mobility.tamu.edu

MEASURES REPORTED

- Hours of Delay
- Travel Time Index
- Freeway Planning Time Index
- Excess Fuel Consumed
- Congestion Costs

LARGE URBAN AREAS

- **TTI defines 31 urban areas as "large" (with populations of 1-3 million people), whereas HRTPO uses 36 large MSAs.**

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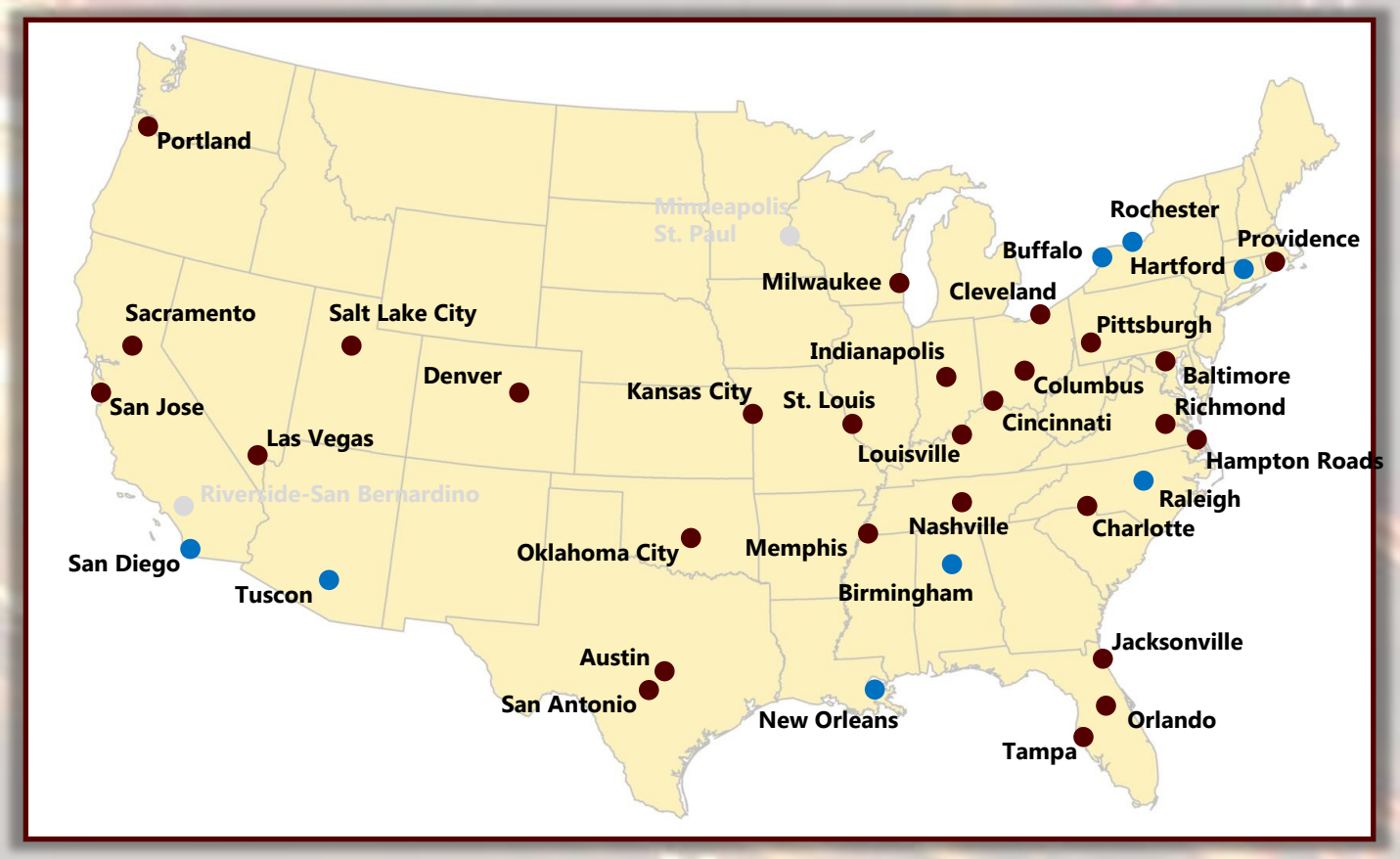
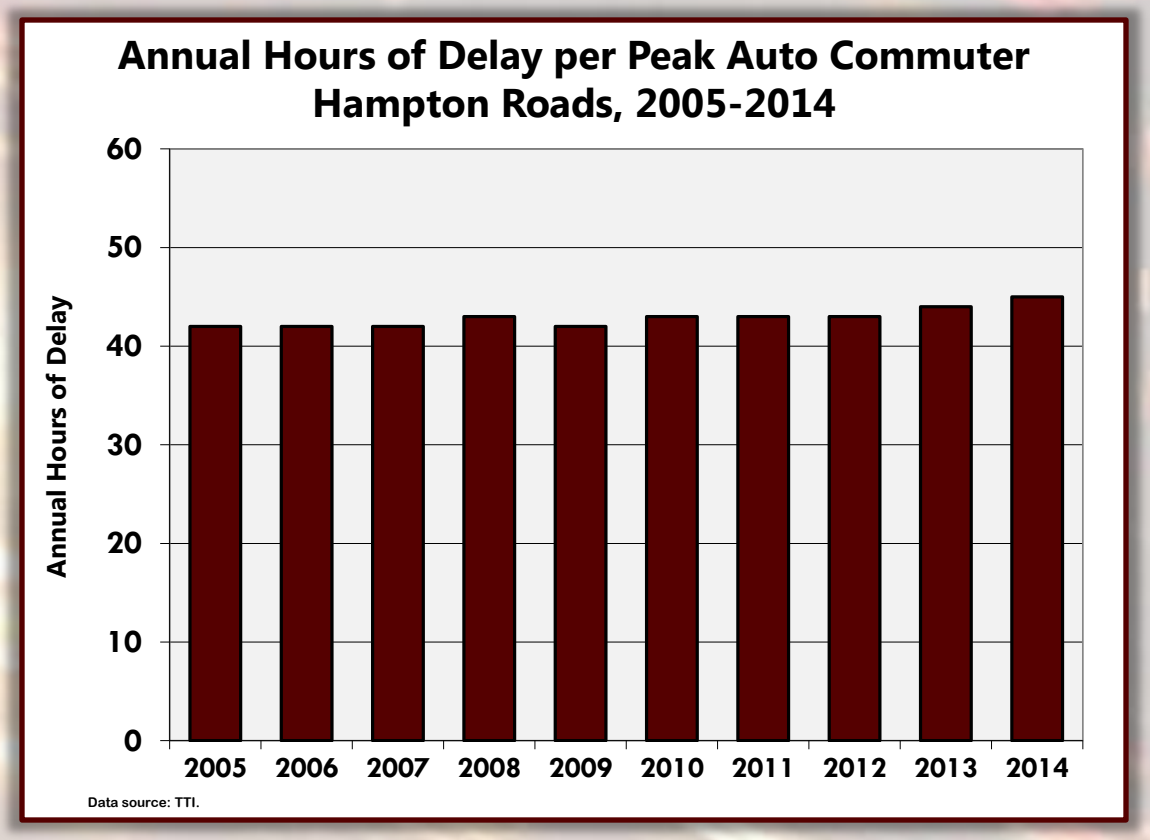


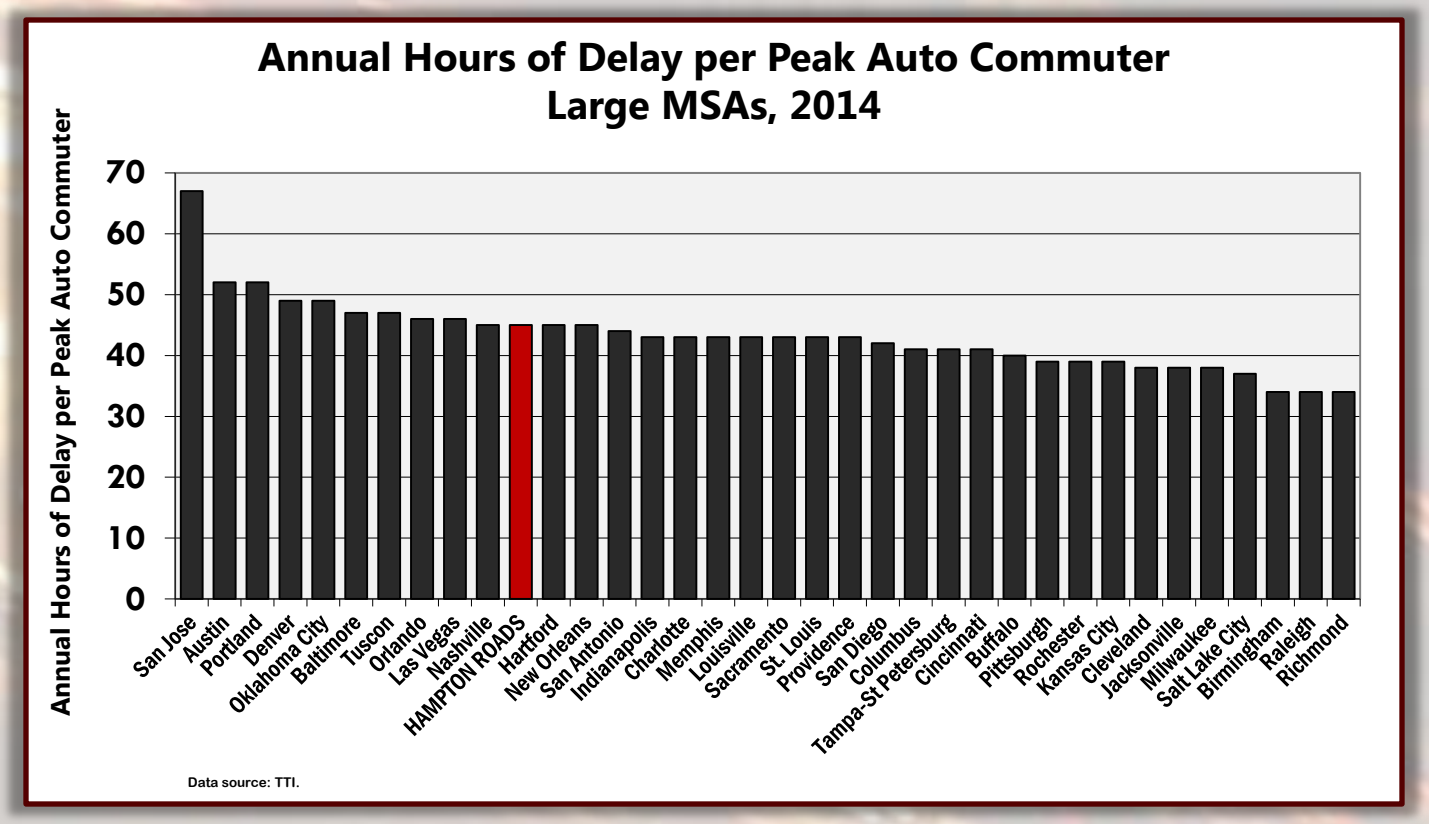
ANNUAL DELAY

- **Hampton Roads had 45 hours of delay per peak period auto commuter in 2014.**



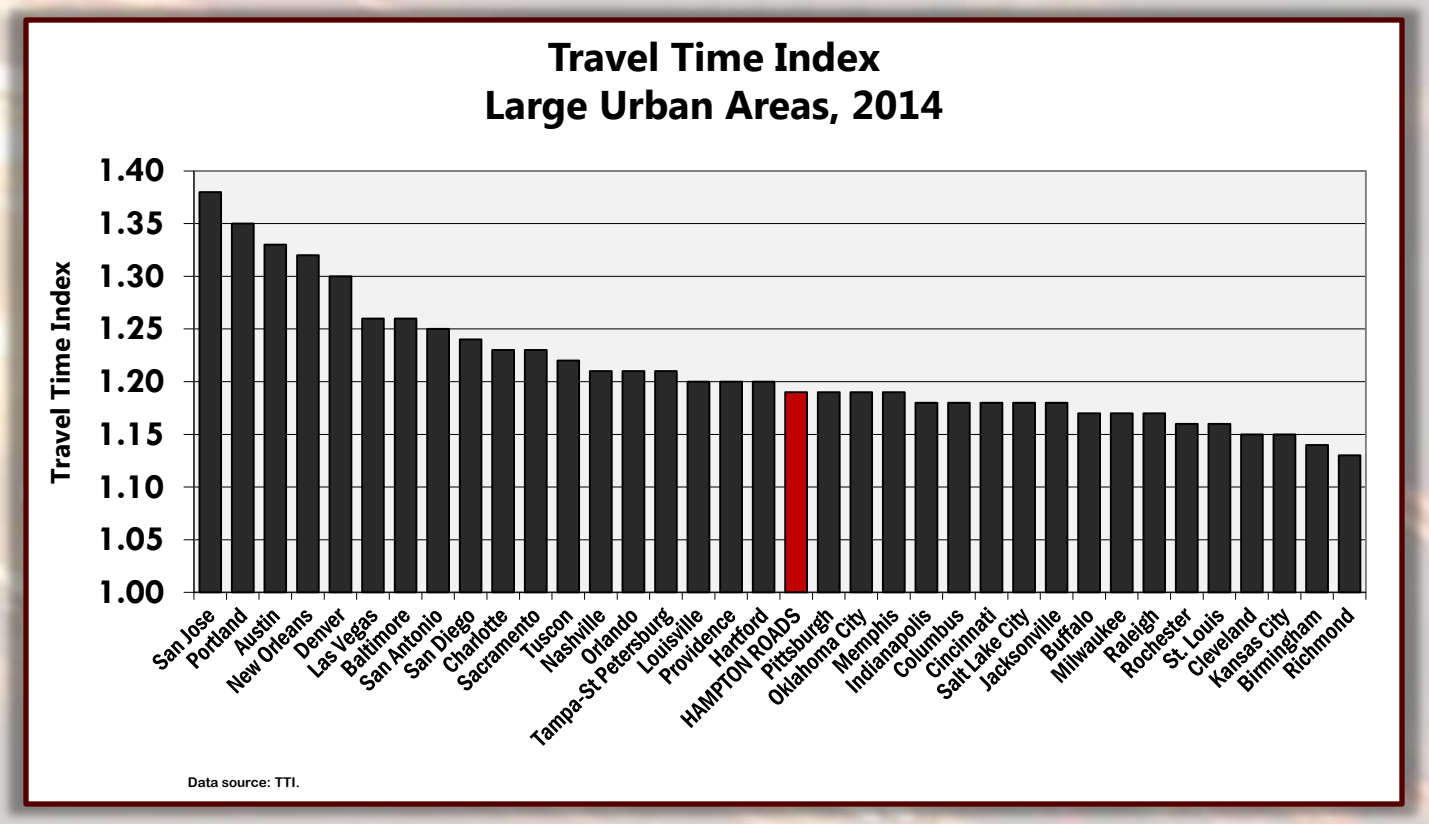
ANNUAL DELAY

- **Hampton Roads ranked 11th among the 36 large metropolitan areas in delay per auto commuter in 2014.**



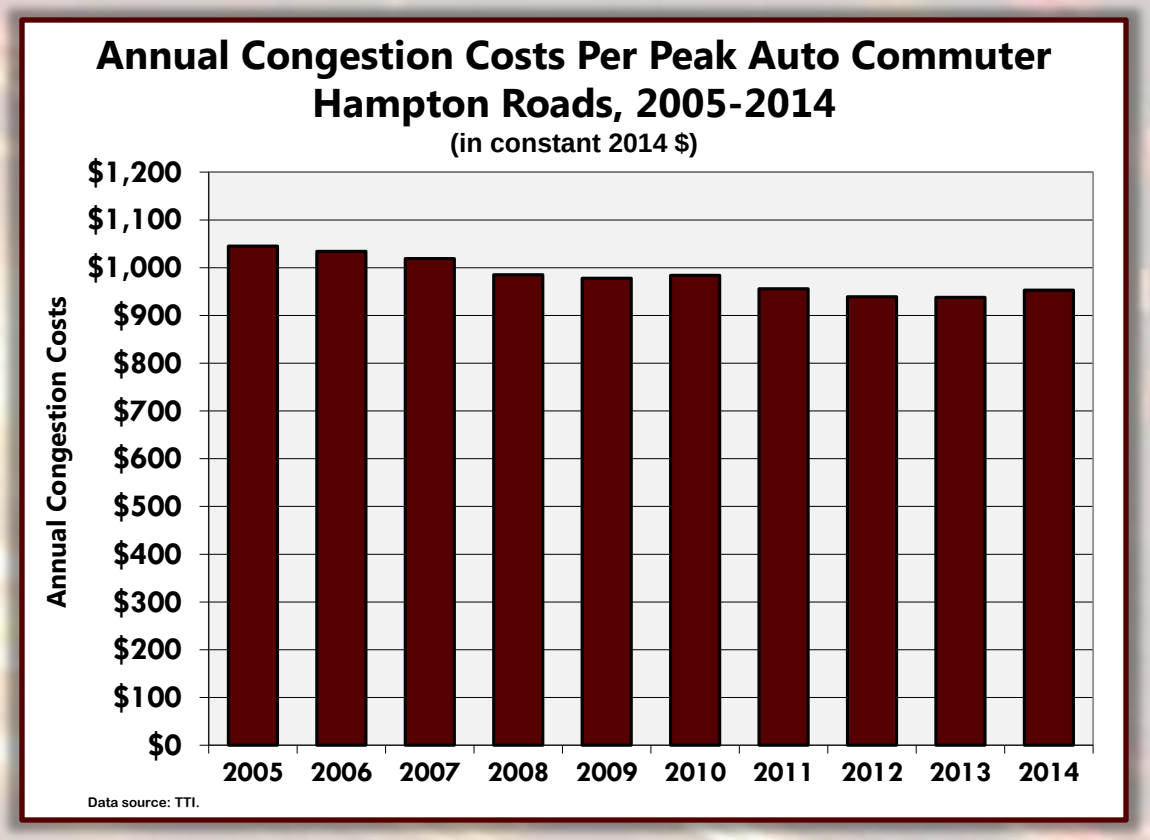
TRAVEL TIME INDEX

- **The average peak period trip takes 19% longer than the same trip during the non-peak periods in Hampton Roads.**



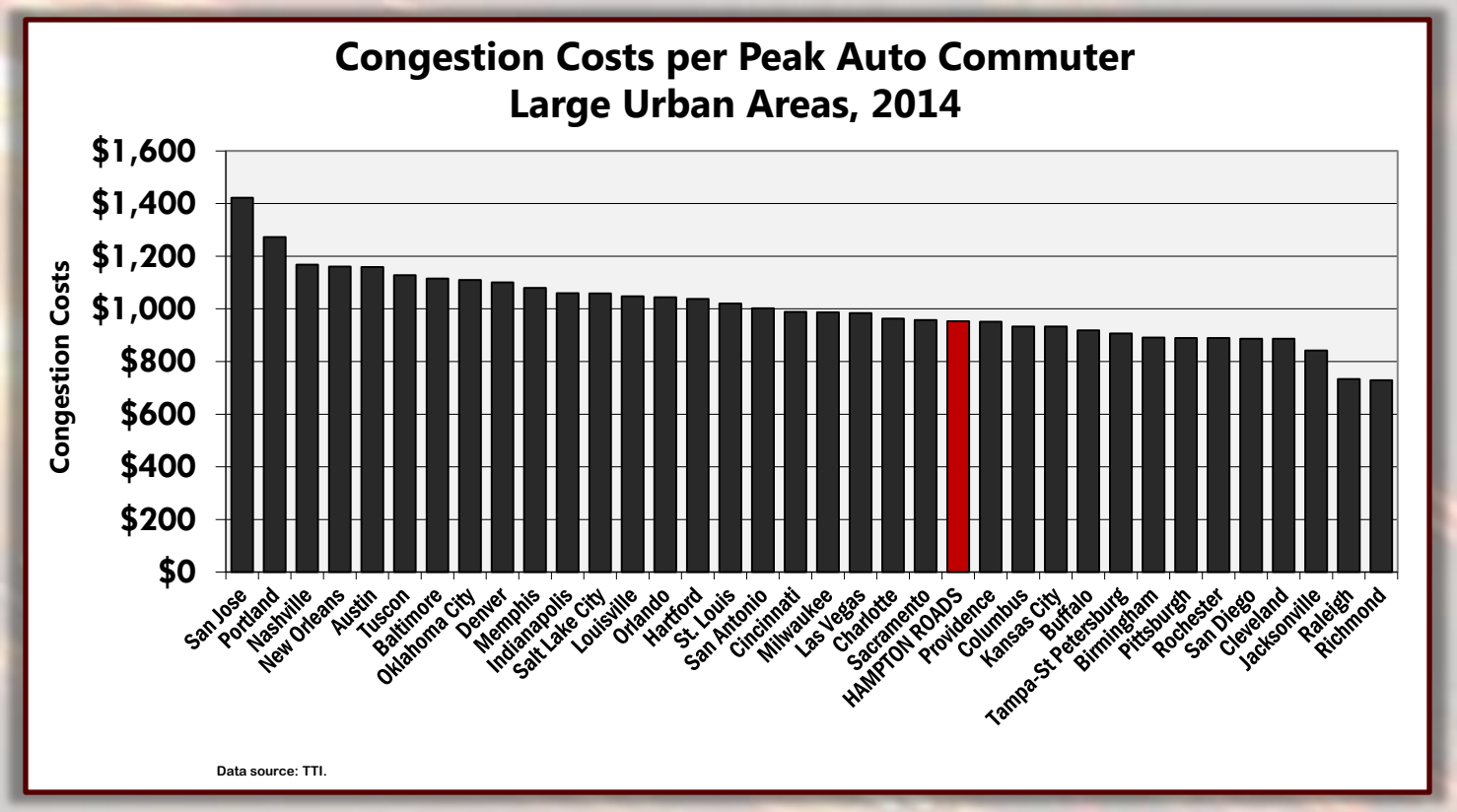
CONGESTION COSTS

- **Congestion cost each Hampton Roads auto commuter an estimated $953 in 2014.**



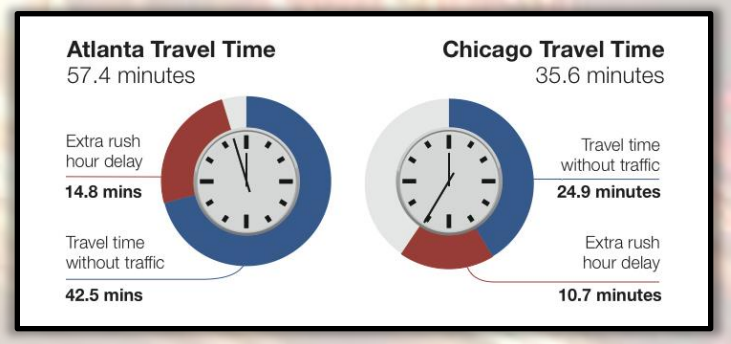
CONGESTION COSTS

- **Hampton Roads ranked 23rd among the 36 large metropolitan areas in delay per auto commuter in 2014.**



STUDY CRITIQUES

- **The Urban Mobility Scorecard only focuses on drivers and fails to account for commute mode share.**
- **The report compares peak-period conditions to free-flow speeds.**
- **TTI looks at roadway congestion levels, but does not take into account the actual commute time and average commute trip length.**

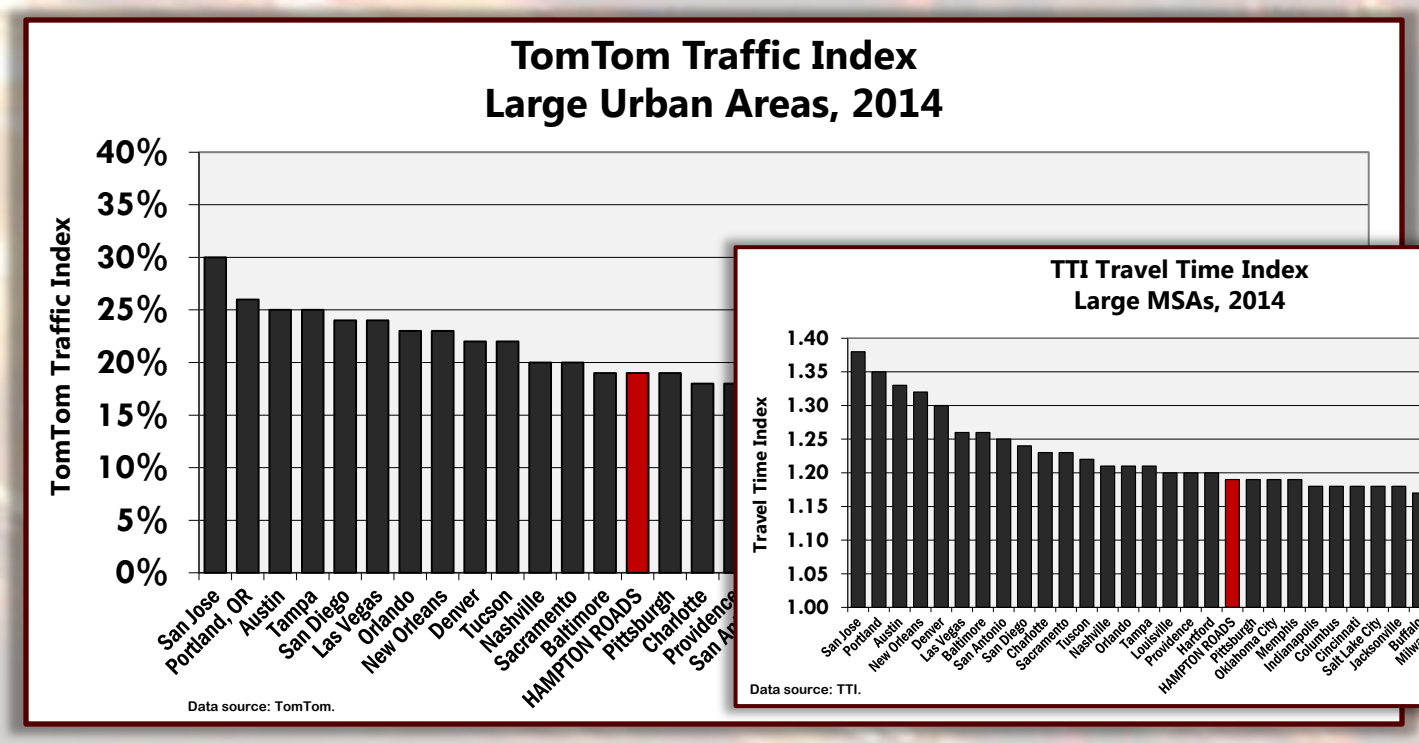


Chicago Travel Time Index = 1.31

Atlanta Travel Time Index = 1.24

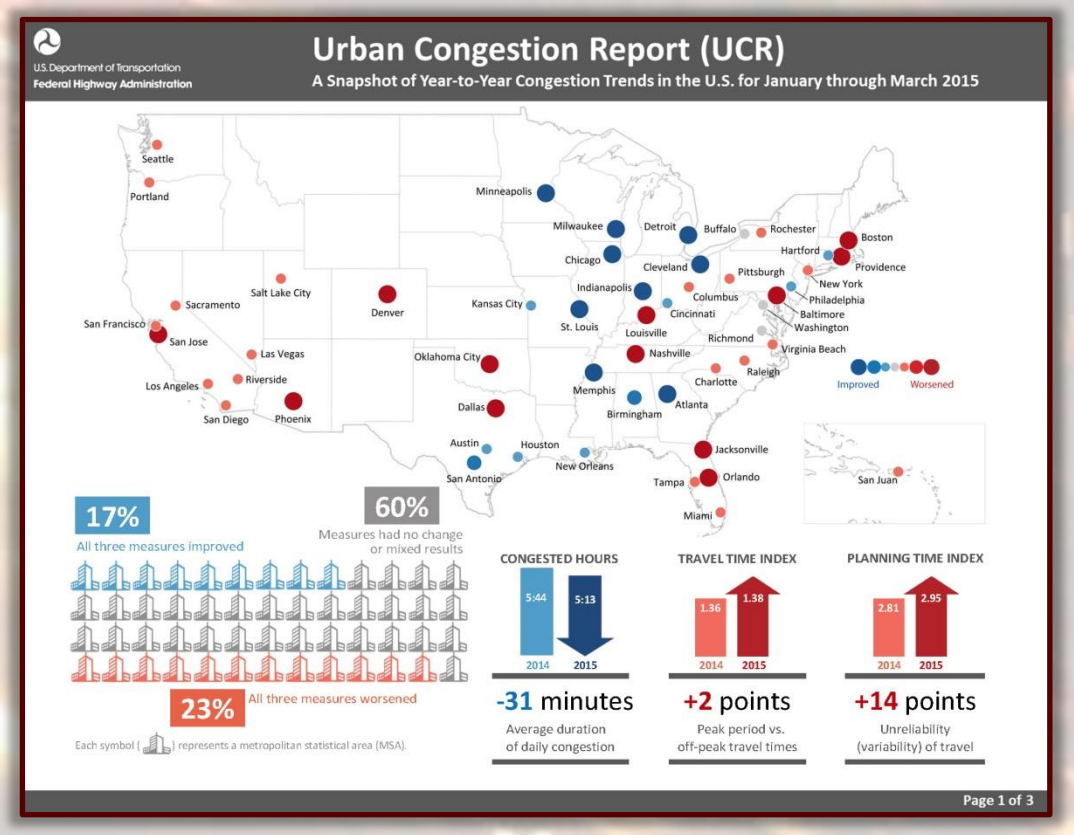
TOMTOM TRAFFIC INDEX

- **Based on TomTom and AutoNavi GPS Data**
- **Measures "Congestion Level", which compares the increase in travel times to free flow conditions (similar to the Travel Time Index)**



FHWA URBAN CONGESTION REPORT

- **Based on FHWA's National Performance Management Research Data Set (NPMRDS), which uses HERE speed data.**



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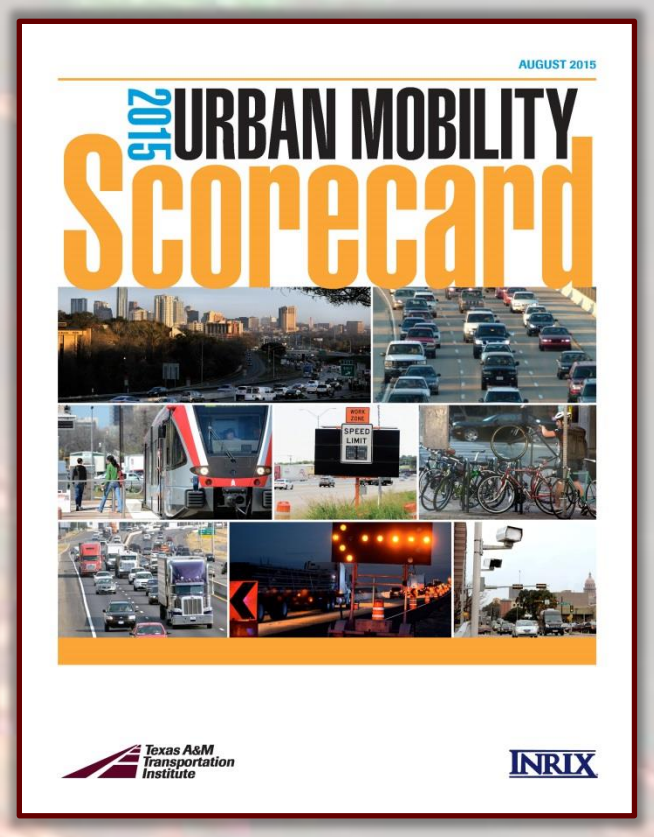

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