

TRANSIGHT 4.0 LAUNCH SERIES



Presentation to Begin Shortly After 2:00 PM (EST)

SESSION 3: TRANSPORTATION REVOLUTION- ANALYZING THE EFFECTS OF INNOVATION IN TRANSPORTATION

what does **REMI** say? sm

Presented by Marley Buchman, Senior Economic Associate

Launch Series Schedule



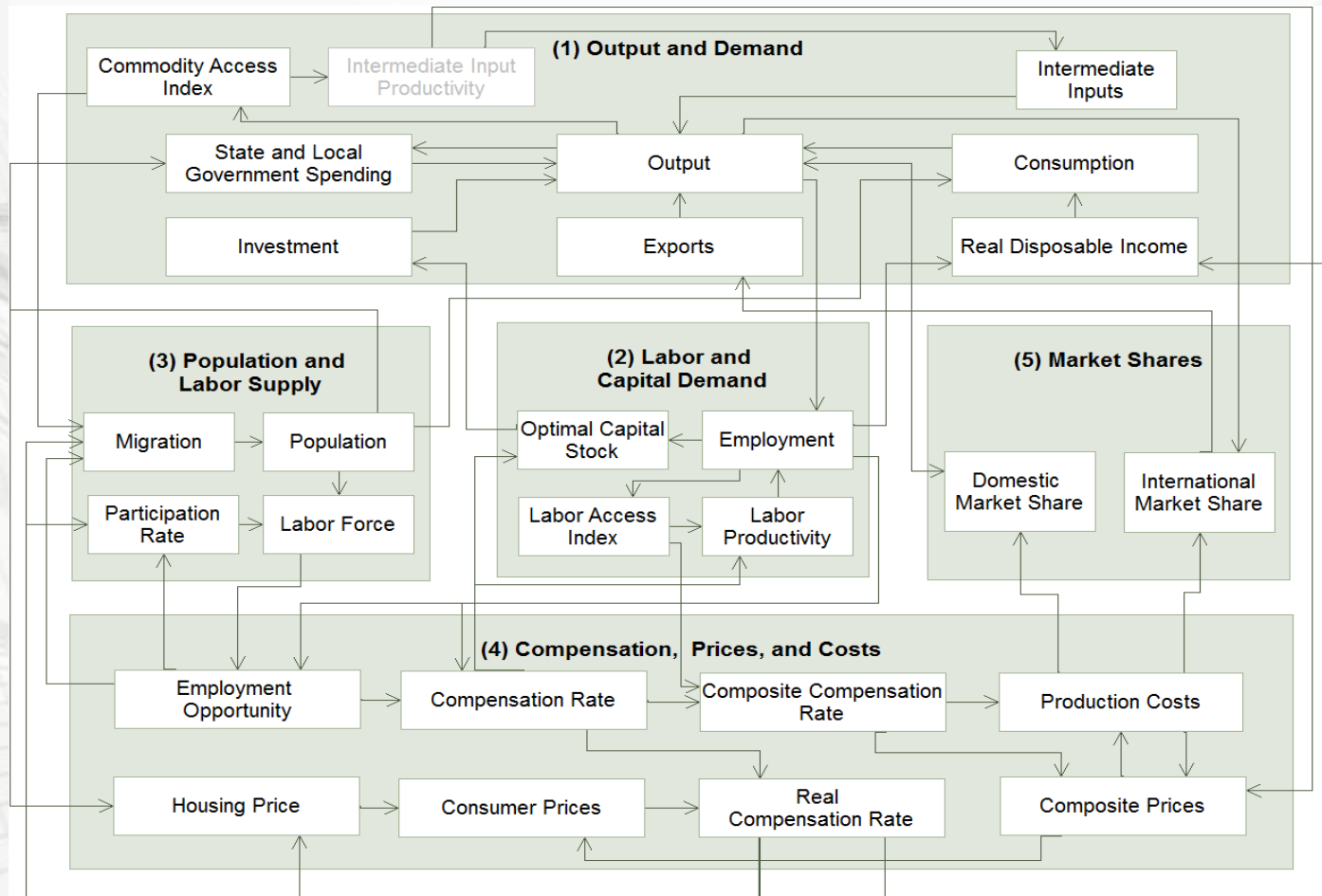
- **Session 3: Transportation Revolution – Analyzing the Effects of Innovation in Transportation**
 - April 11th and April 13th, 2:00 PM EST

Review past presentations from this series and others @ www.remi.com

Overview

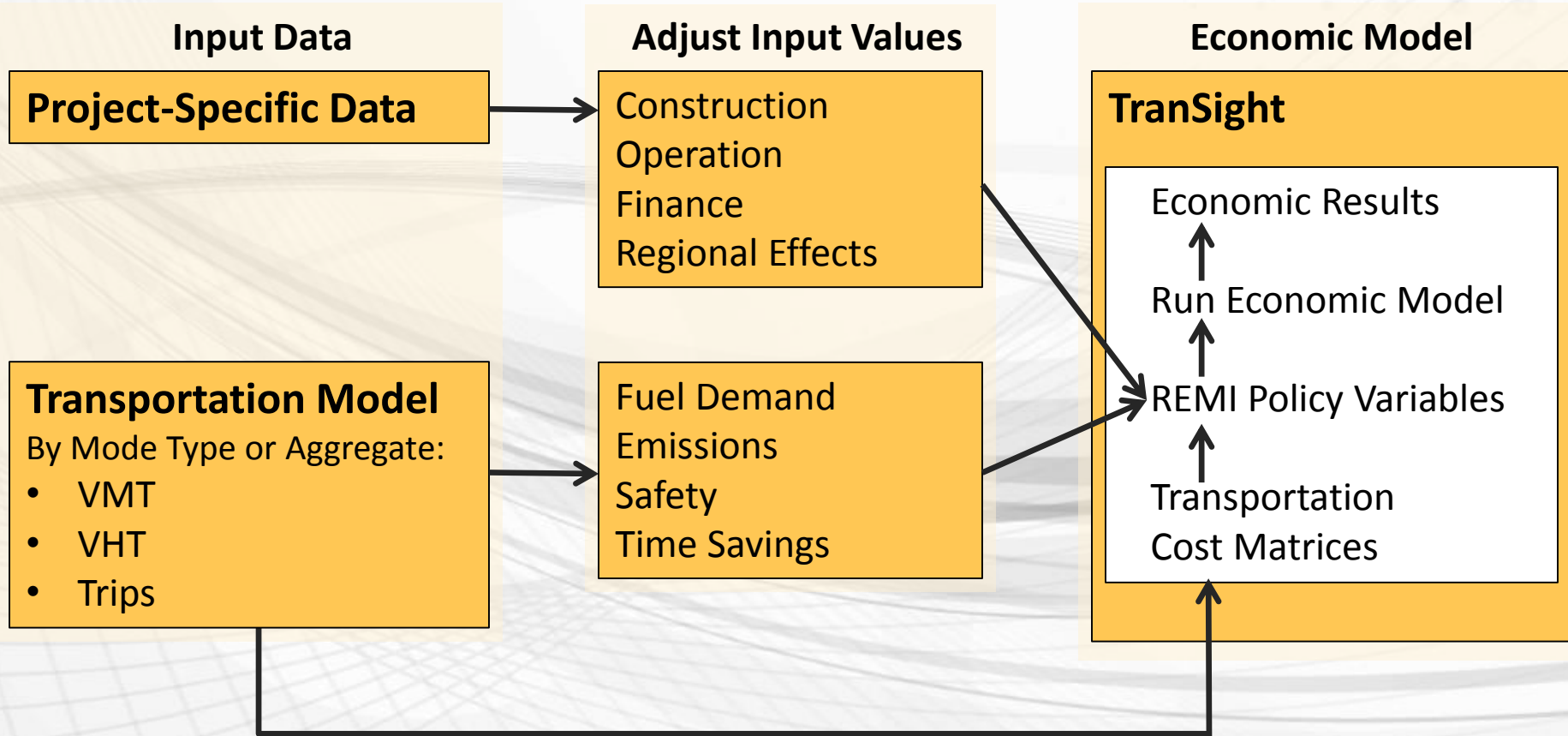
- Model Overview and Discussion on Applications
- Technology and the New Economy
 - Ride Sharing
 - Electric Vehicles and Improvements in Fuel Economy
 - Autonomous Vehicles

Model Linkages



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TranSight Structure



Technological Revolution



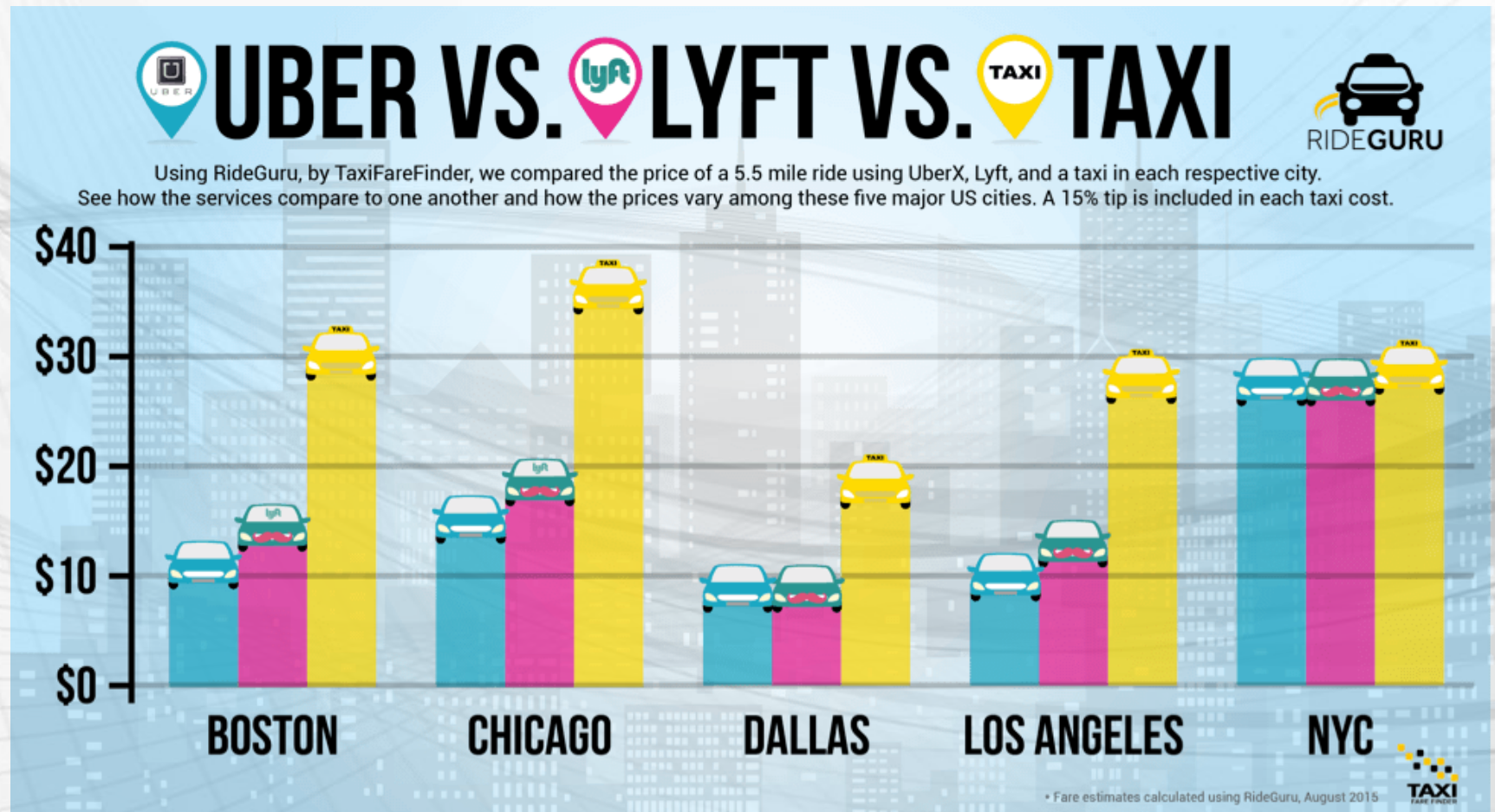
- Cutting edge technologies and disruptive business models are changing transportation
 - Ride-hailing apps
 - Low-emission and electric vehicles
 - Driverless vehicles
- Changes in technology raise questions about future policies
 - Is it time to charge motorists by mileage?
 - Are new regulations required to govern ride-share businesses and driverless vehicles?

Ride Hailing & Future of Transit

- Uber & Lyft offer alternative to traditional taxi services
- Could public transit be the next mode of transportation disrupted by ride sharing?
 - Local transportation agencies in Pinellas County, Florida and some other regions have partnered with Uber or Lyft
 - Programs partially subsidize ride-hailing to fill in gaps in public transit service
 - Cost effective way to areas with a small number of riders
 - Ride hailing may not replace traditional transit, but could remain a link in the larger transportation network

Sources: Bloomberg, Slate

Cost Differences

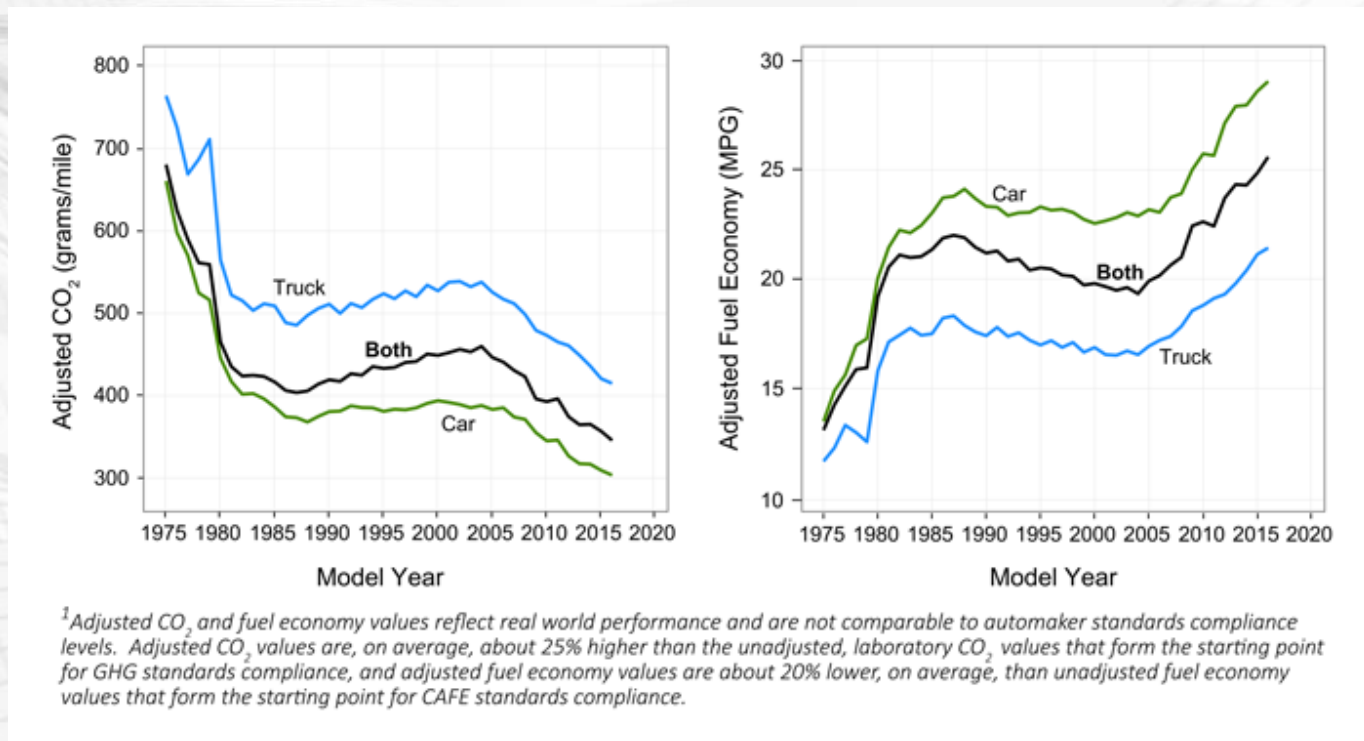


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Emissions & Fuel Economy Trends

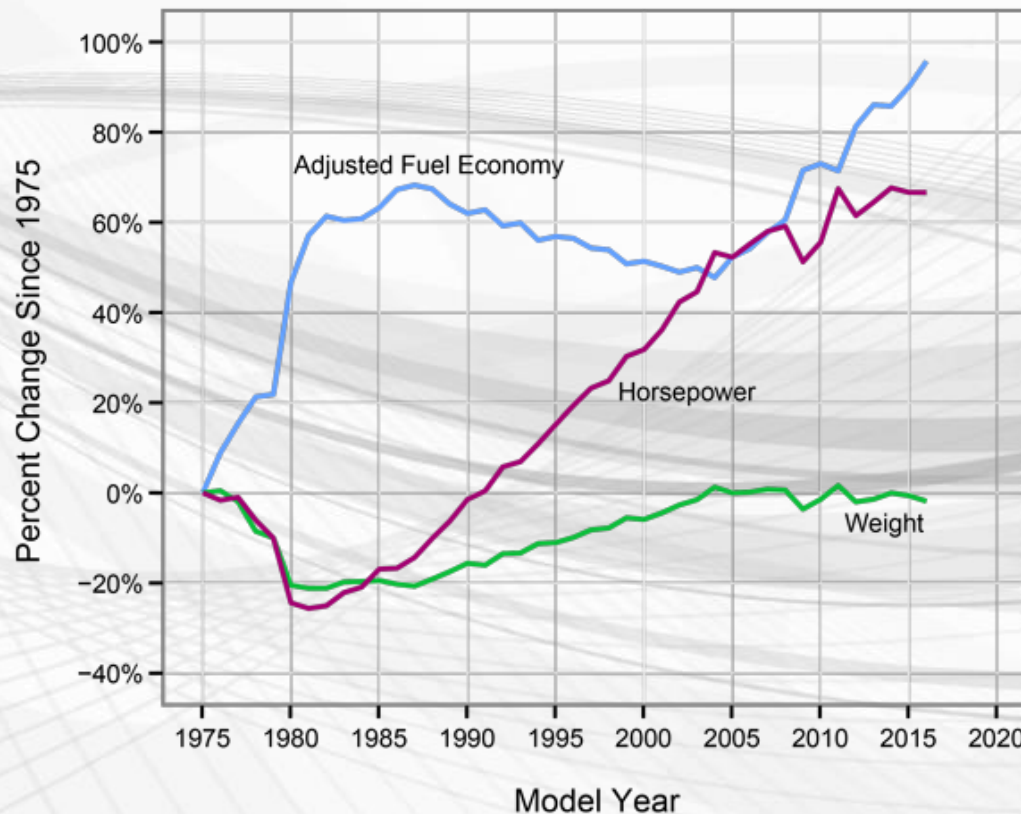
Average new vehicle emissions hit a record low, and fuel economy reached a record high, in Model Year 2015, and preliminary numbers for MY 2016 showed continued improvement.

Adjusted CO₂ Emissions for MY 1975-2016¹ Adjusted Fuel Economy for MY 1975-2016¹



Fuel Economy vs. Vehicle Weight

Fuel economy is increasing, while weight and power have leveled off

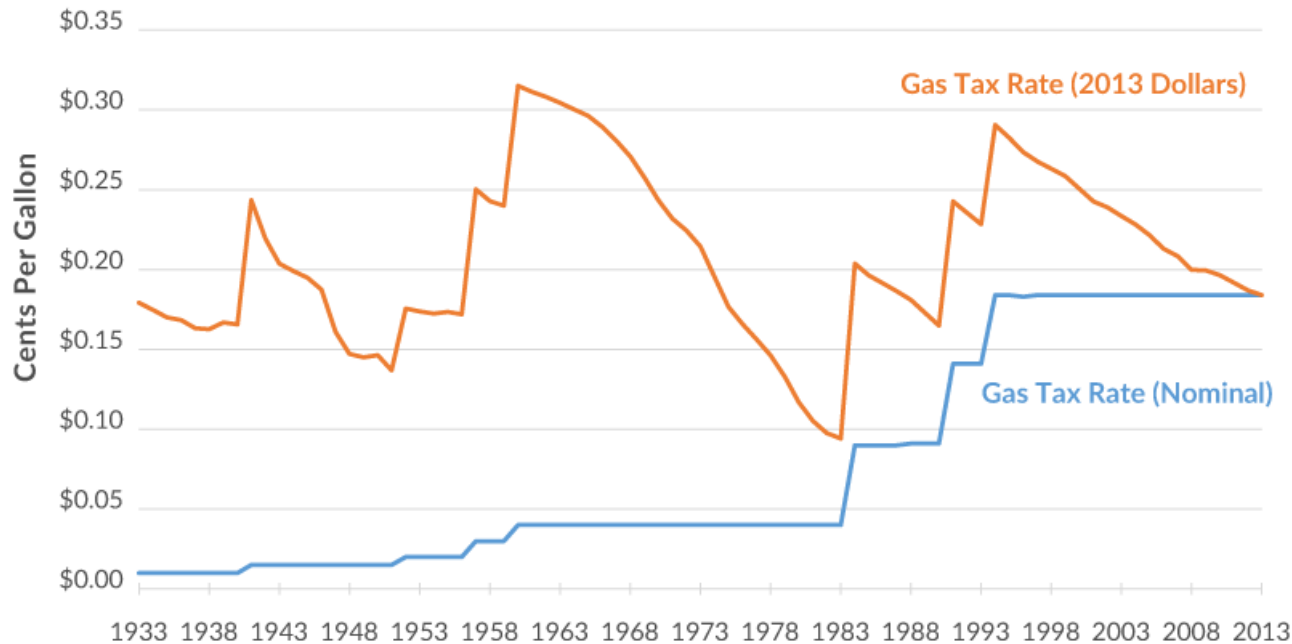


Source: EPA

HTF Eroding Value

Chart 2. The Real Value of the Gas Tax has Declined by about 36 percent Since 1994

Nominal and Inflation Adjusted (2013 Dollars) Gas Tax Rates, 1933-2013



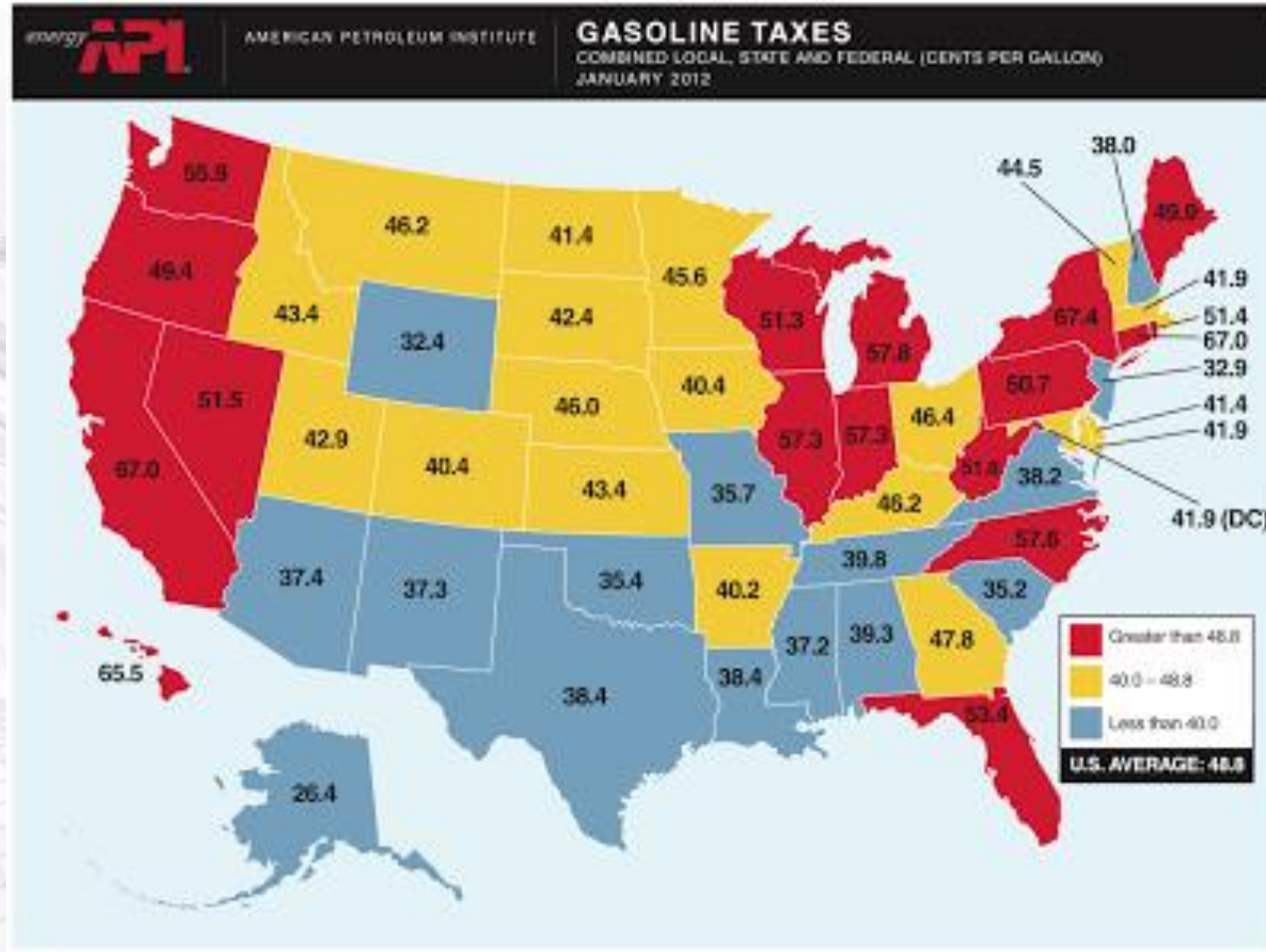
Source: IRS and Author's Calculations

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State Gas Taxes



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Yearly average, per driver, across all states: **\$329**

Autonomous Trucking

- “In the first real-world commercial use of autonomous trucking, some 45,000 cans of Budweiser beer arrived late last week [Oct. 2016] to a warehouse after traveling over 120 highway miles in a self-driving truck with no driver at the wheel, executives from Uber and Anheuser-Busch said.”
- “Transportation experts predict the earliest applications of autonomous technology will be in self-driving trucks, not cars. The technology is best suited to the relative predictability of long hauls on highways, rather than busy city streets with many distractions.”

Model Demonstration & Results

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Contact Information



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