

AV/EV Impacts to Transportation Revenue: *The Fuel Tax*

presented to

**MPOAC Staff
Directors/
Governing Board
Meetings**

presented by

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Office of Policy Planning

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TODAY'S OBJECTIVE

A white silhouette of the state of Florida is positioned in the upper right corner of the slide, set against a dark blue background with diagonal stripes.

Overview of transportation funding in Florida

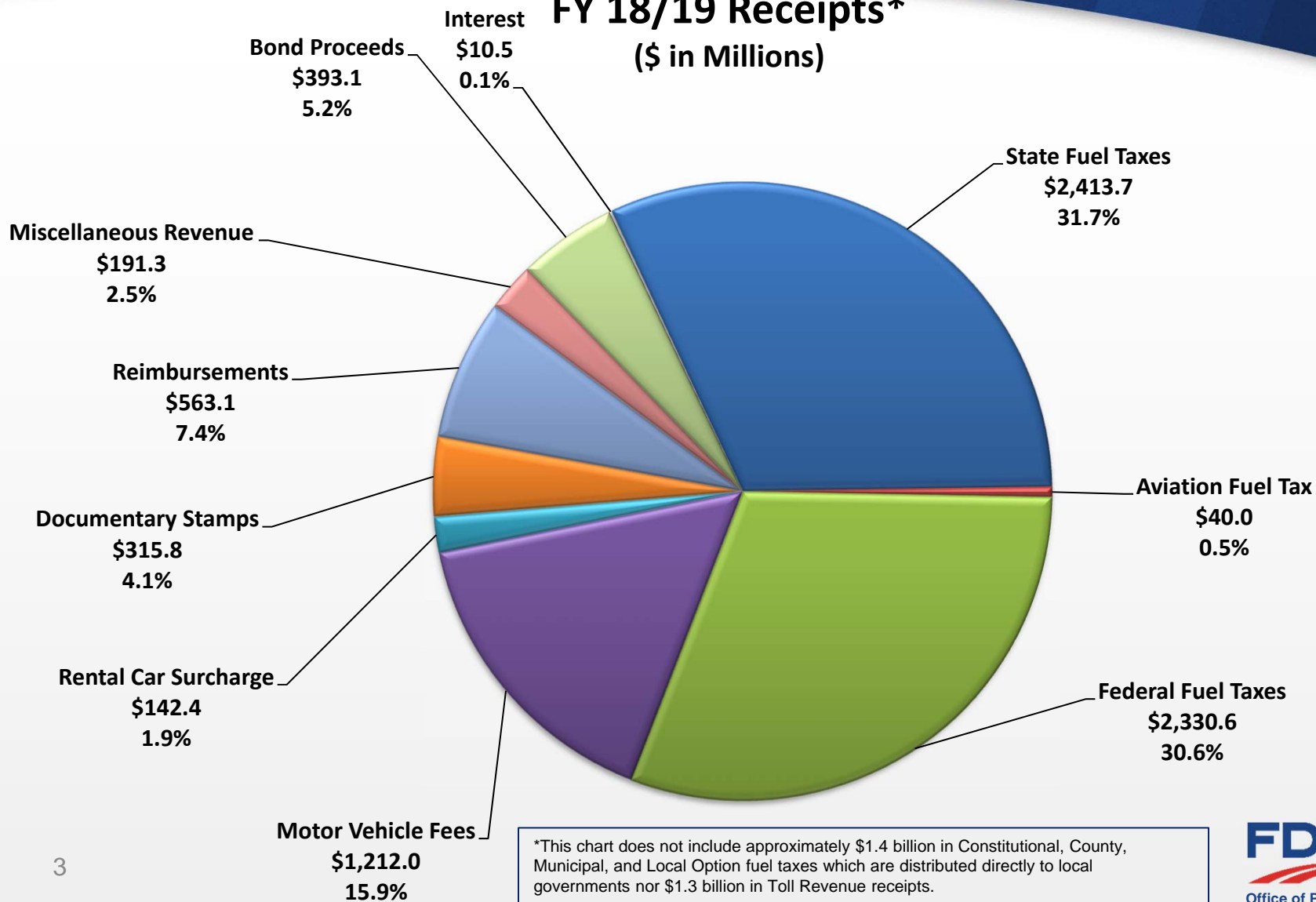
Future Funding Trends

Help get the message out

State Transportation Trust Fund Receipts by Category



FY 18/19 Receipts*
(\$ in Millions)



*This chart does not include approximately \$1.4 billion in Constitutional, County, Municipal, and Local Option fuel taxes which are distributed directly to local governments nor \$1.3 billion in Toll Revenue receipts.

CALENDAR YEAR 2019 FUEL TAX RATES (cents per gallon)

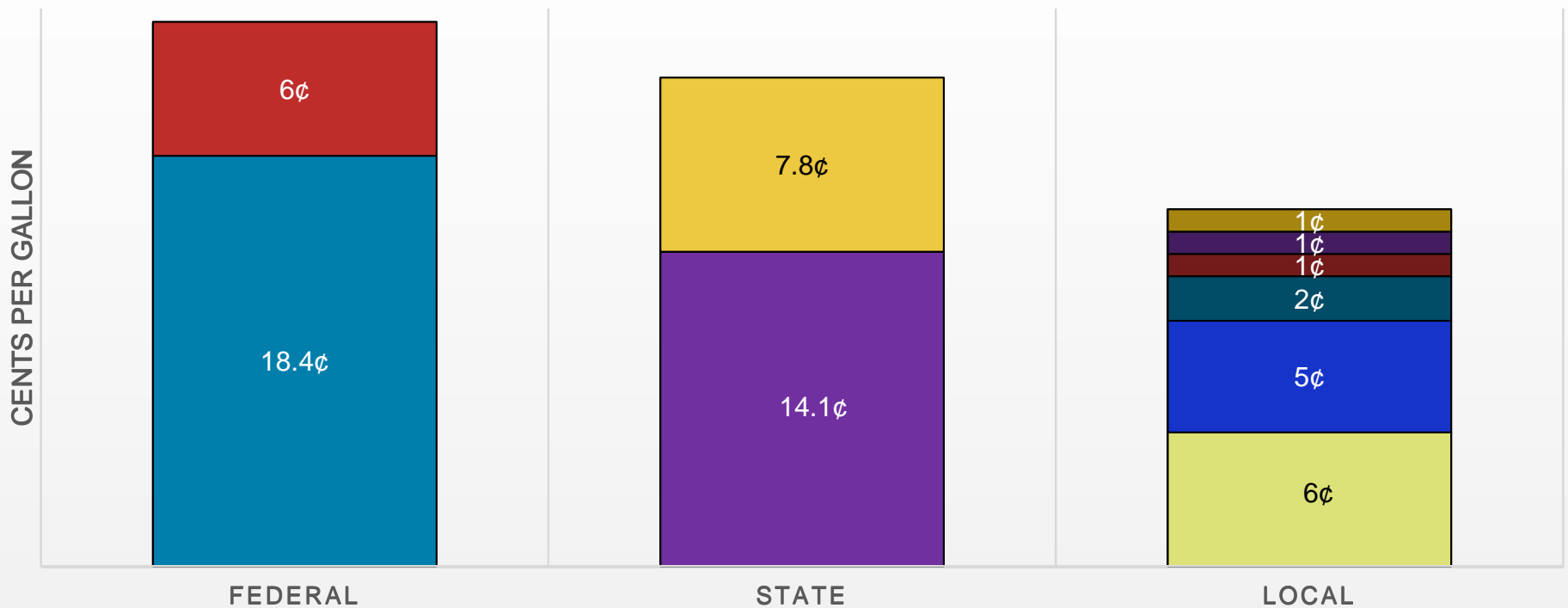


2019 FUEL TAX RATES

- Federal Gas 18.4 cents/Gal.
- Federal Diesel Added 6 cents/Gal.

- States Sales 14.1 cents/Gal.
- SCETS 7.8 cents/Gal.

- Local Option 1-6 cents/Gal.
- Local Option 1-5 cents/Gal.
- Constitutional 2 cents/Gal.
- Ninth-cent 1 cent/Gal.
- County 1 cent/Gal.
- Municipal 1 cent/Gal.



Source: Office of Economic and Demographic Research

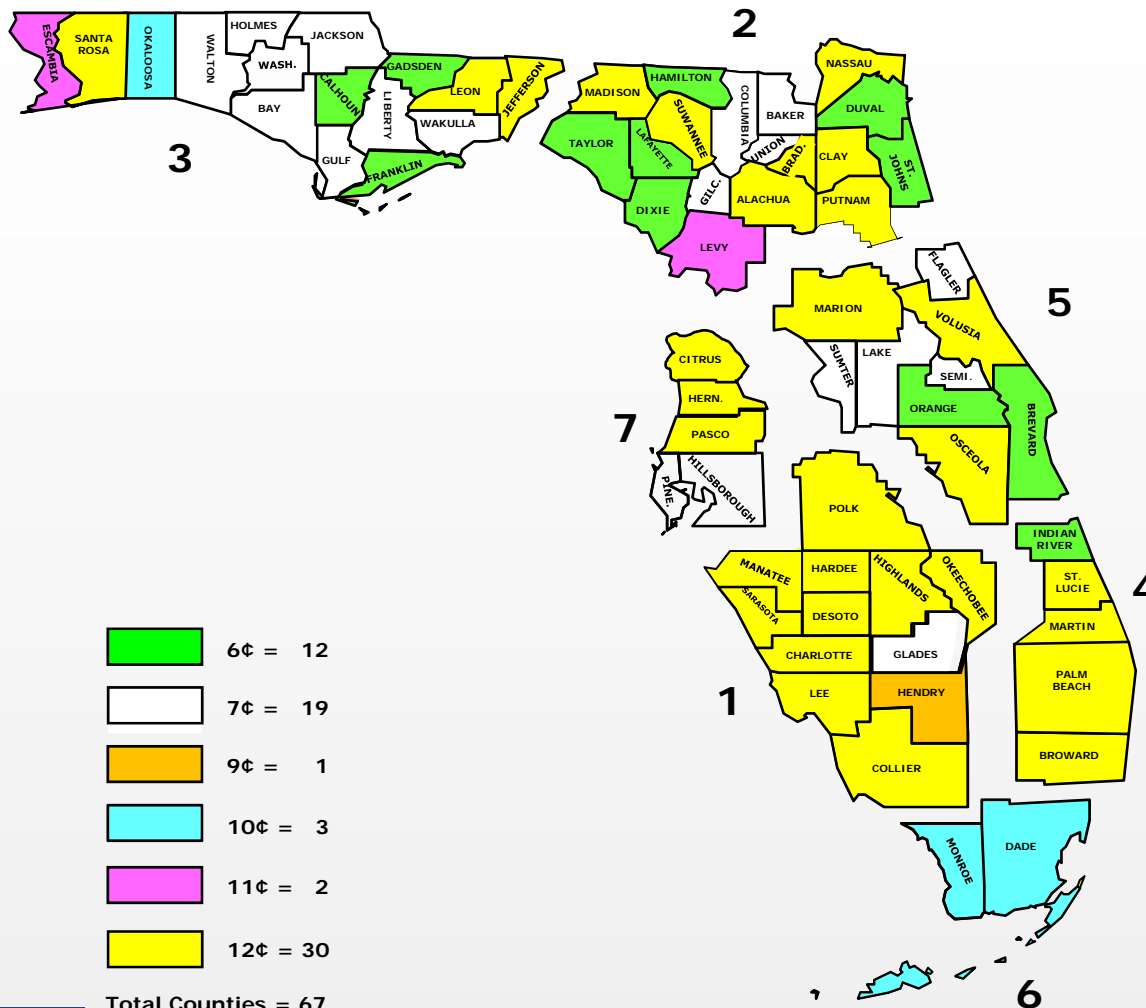
Locally Imposed Fuel Taxes

Fuel Tax Rates as of January 1, 2019



Locally Imposed Motor Fuel Taxes

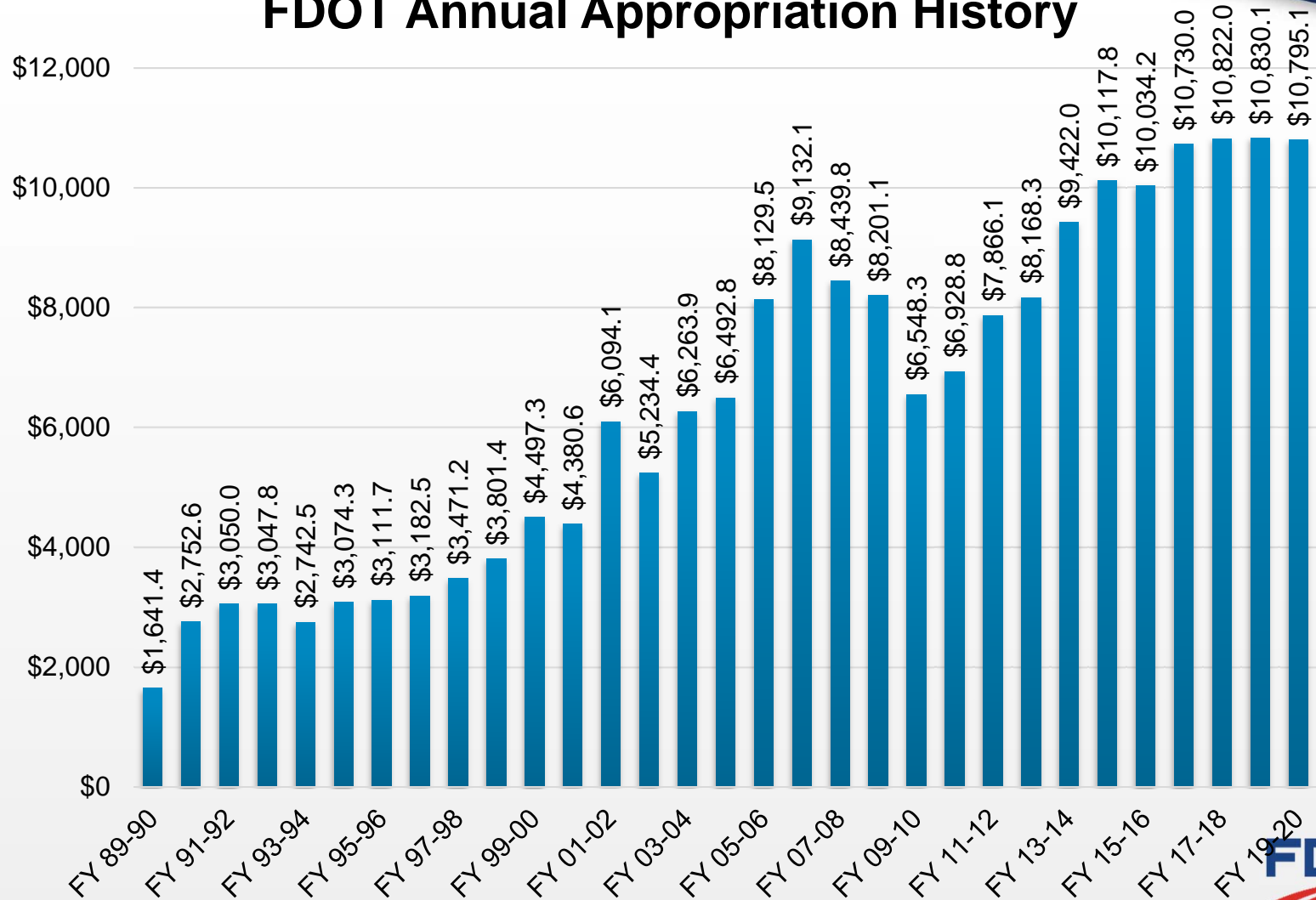
Tax Rates (¢/gal) as of January 1, 2019



FDOT Annual Appropriation History

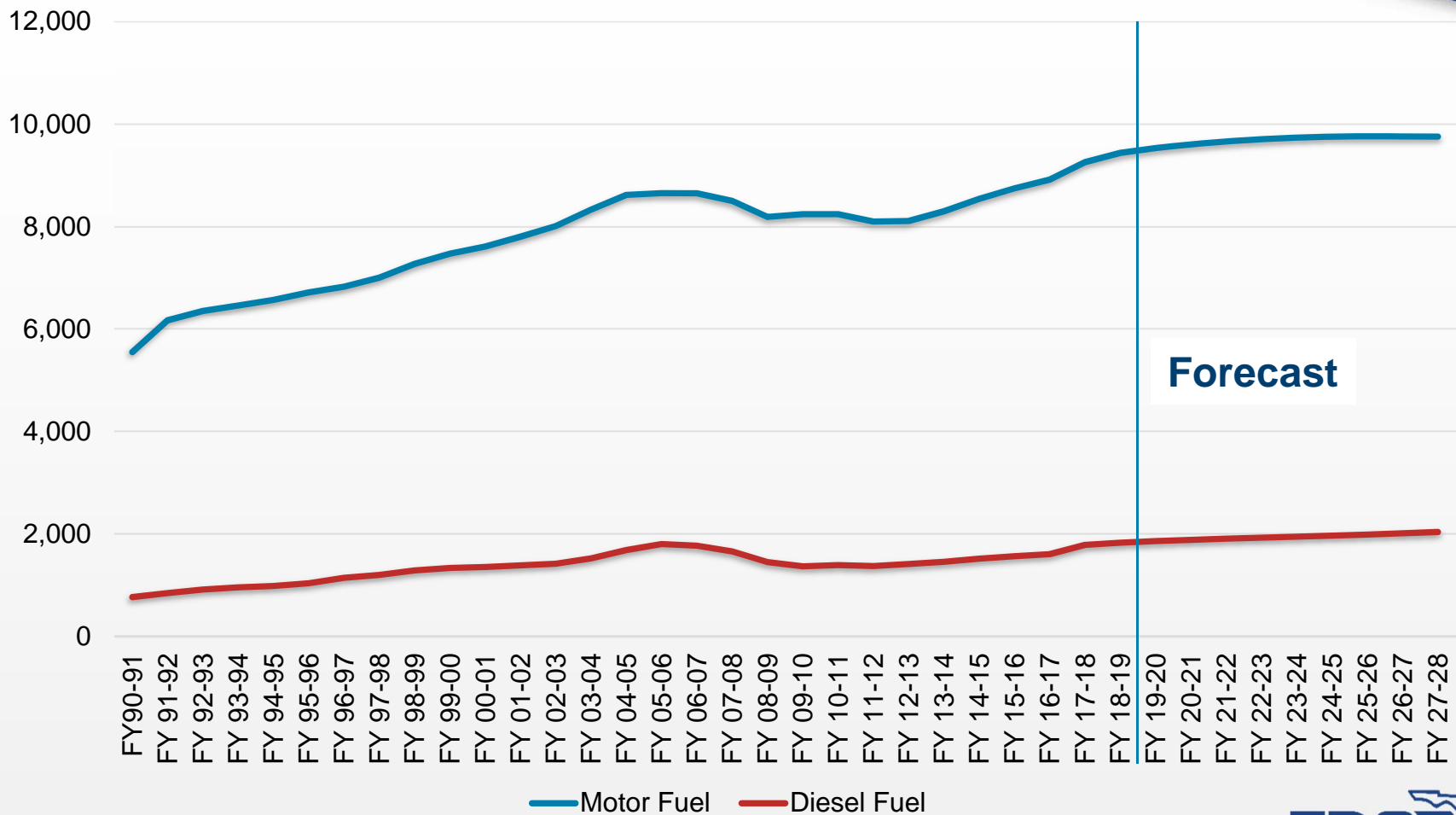


FDOT Annual Appropriation History



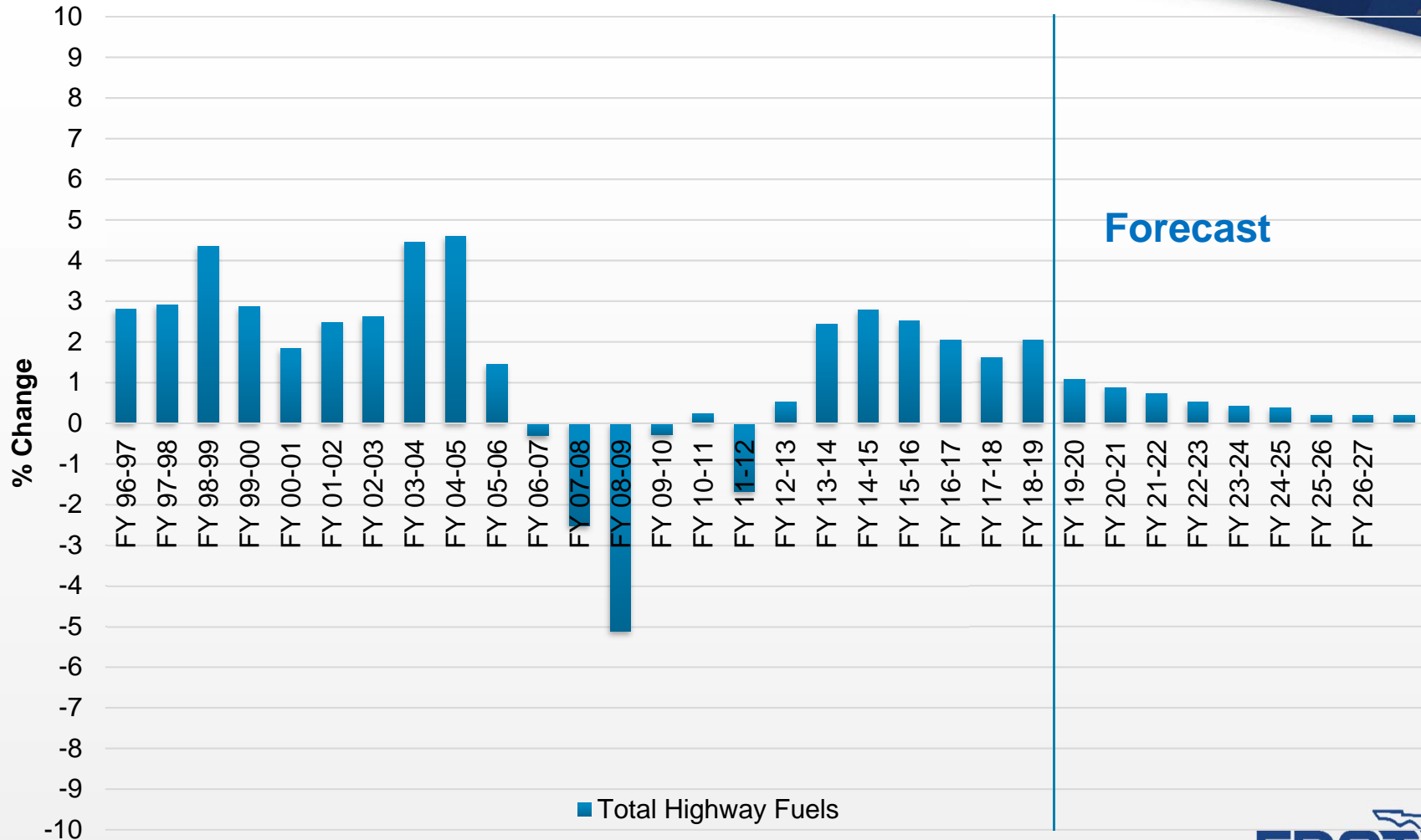
Fuel Consumption in Florida

(in Millions of Gallons Annually)



Forecast

Fuel Consumption Growth Rate in Florida



What Sets Florida Apart?



State Fuel Tax Indexed to CPI

Extensive Tolling Systems

Maximum Use of Innovative Financing

Population Growth

Record Tourism

Average Fuel Efficiency

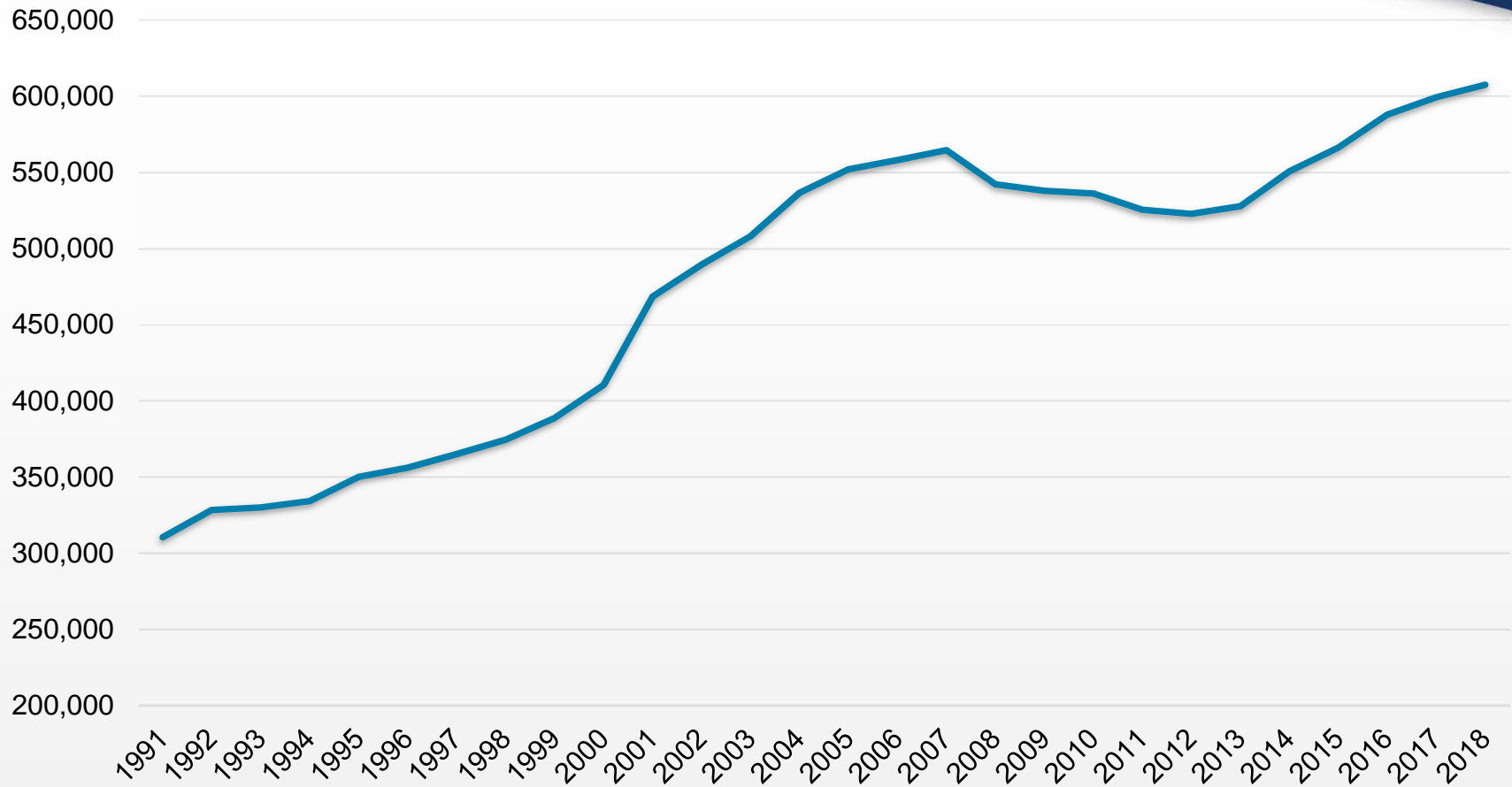


Since 1980 fuel efficiency of national fleet has increased 50%

Fuel efficiency of new cars increased 55%

Daily Vehicle Miles Traveled in Florida

(in Thousands of Miles on all Public Roads)



— DVMT

AV/EV Impacts of Market Share



AV market penetration rate of 35% of vehicles by 2035 (percent of new vehicles on the road)

In terms of vehicle fleet penetration, AVs will be 11% to 44% of vehicle stock in 2035

Most aggressive forecast predicts EV share of market will be 35% in 2040 (research underway)

In terms of vehicle fleet penetration, EVs will be 15% of vehicle stock in 2040

AV/EV Impacts to Overall VMT



Estimated that AVs will add 48.9 billion additional annual VMTs over baseline by 2048.

- Assumption is that all AVs in 2048 will be EVs
- Assumption that 30% of total VMT in 2048 will be eVMT (100.8 billion miles)
- Research is currently underway (Oct. 2019)



QUESTIONS?

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