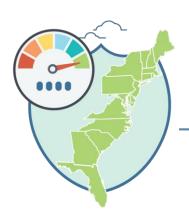


## **Future of Funding**

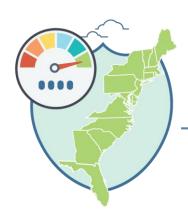
Trish Hendren, Executive Director, I-95 Coalition

**#WeTheStates** 



# Mileage-Based User Fees (MBUF) in an Electrified World

Dr. Patricia Hendren, Executive Director - I-95 Corridor Coalition

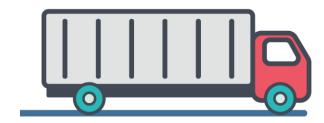


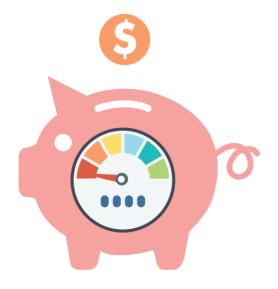
#### The Next 20 Minutes....

- 1. The revenue problem
- 2. MBUF exploration
- 3. MBUF and EVs
- 4. Issues to consider

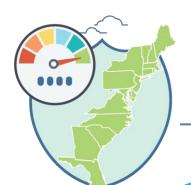








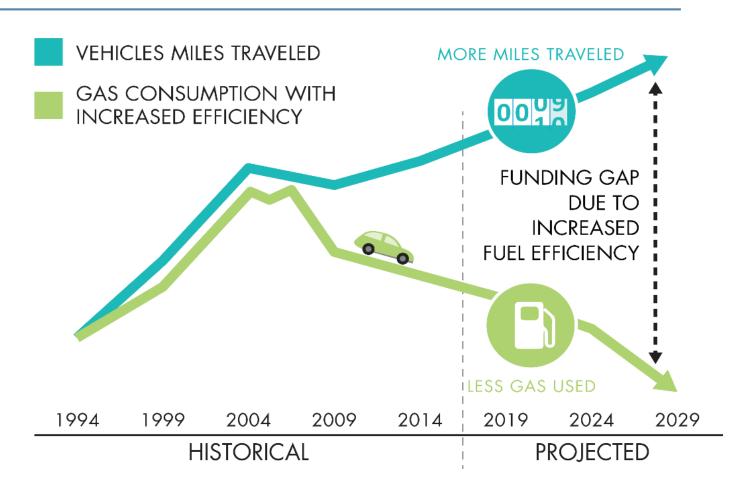




## **Transportation Revenues are Declining**

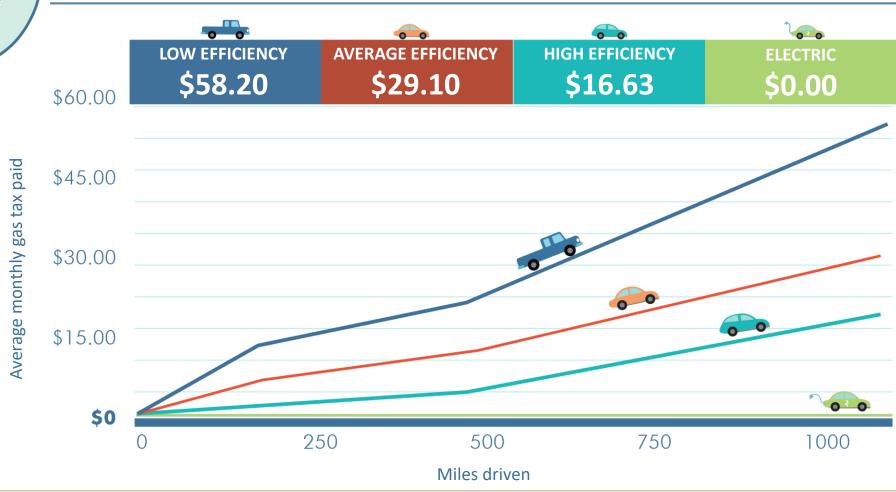


Decrease in purchasing power of federal fuel tax since 1993





## **Transportation Fleet is Changing**



## 「(ツ)\_/

Drivers have no idea how much they are paying in fuel tax.





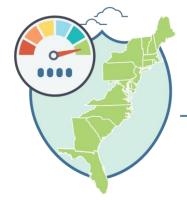
### **STSFA Grant Program**

The Surface Transportation System Funding Alternatives (STSFA) program under Section 6020 of the Fixing America's Surface Transportation (FAST) Act .....

- Authorized grants to States for demonstrating:
  - ✓ User-based <u>alternative</u> revenue mechanisms
  - ✓ Utilization of a <u>user-fee</u> structure
  - ✓ A solution to maintain the <u>future</u> long-term solvency of the Federal Highway Trust Fund



Provides \$95 million over 5 years



## Mileage-Based User Fees (MBUF)

FROM THIS.....











#### **I-95 Coalition STSFA Grants**

<u>Purpose</u>: Explore the feasibility of replacing the gas tax with a mileage-based user fee program in a multistate environment

OUT-OF-STATE MILEAGE
 How will travel across boundaries be handled?

TOLLING
 What is the relationship between tolling and MBUF?

• TRUCKING

How does a user-fee fit into current requirements?

AMENITIES
 Will value-added amenities help with public acceptance?







## 16 states + D.C.

In the Corridor

Largest Economy in the World

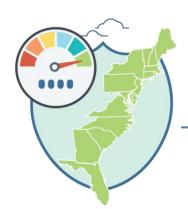
\$7.4 Trillion xx% of US GDP

33%

of US total employment: 55.9 Million jobs

46

Major Seaports \$395 Billion in International Exports



#### More than I-95

#### Multi-modal • Multi-jurisdictional • Multi-disciplinary



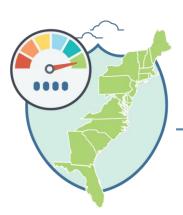




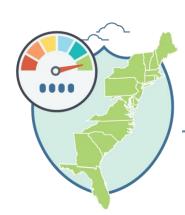




The I-95 Corridor Coalition is a partnership of multi-state, multi-modal public agencies working together to create a seamless and efficient transportation system.



## I-95 Coalition MBUF – Phase 1



## Phase 2 & 3: More Exploration





- Further test the tolling concept
- Explore privacy concerns and equity across urban and rural areas
- NEW Partner: Transurban (VA)
  - Explore MBUF for congestion management
- NEW Partners: NJDOT and NCDOT
  - Focused pilot to begin exploration / education



- **Education & Outreach** 
  - Surveys, Focus groups, interviews, video, briefing packets, website





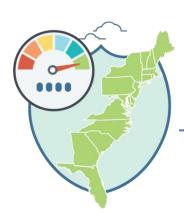
#### Phase 2 & 3: Multi-Sate Truck Pilots

- October 1<sup>st</sup>, 2018 March 31<sup>st</sup>, 2019
- EROAD is the technology partner
- Pilot purpose:
  - Explore feasibility of existing regulations and technology as a framework for a MBUF
  - Gain a better understanding of motor carriers needs and viewpoints.

#### **Next Steps**

- Compile insights from IFTA Auditors Workshop
- Interviews with motor carriers
- Motor Carrier Working Group





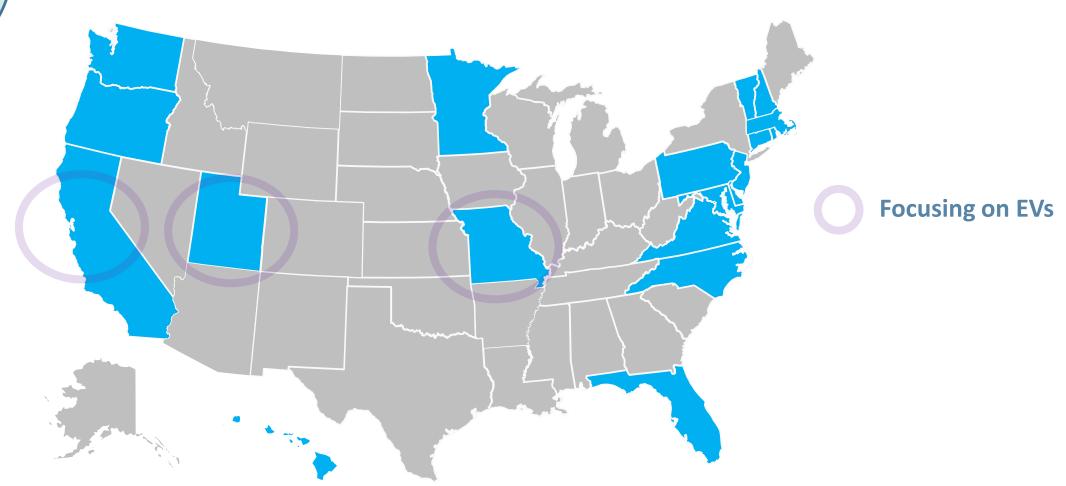
## Important to Remember:

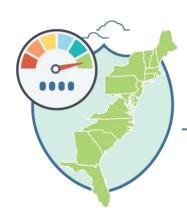
The I-95 Corridor Coalition members want to promote a better understanding of why investing in transportation is important, and why the current fuel tax does not provide a long-term and equitable solution in this regard. The Coalition, representing transportation agencies along the entire Eastern Seaboard, believes exploring the feasibility of a MBUF solution is important; for now, however, the Coalition is neutral if MBUF is the ultimate solution.





## **States with MBUF Pilots Activity**





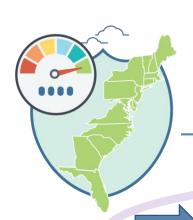
## Other STSFA Grants Addressing EVs

#### Missouri

- Exploring if vehicle registration fees can use vehicles' fuel efficiency (MPG) to assess a fair and equitable user charge
- Grant work designed to capture lost fuel tax revenues due to increasingly fuel efficient vehicles
  - Ex: < 29 MPG no additional fees while > 61 MPG pay over \$200

#### **California**

- Can MBUF technology capture fees at the point of sale?
  - Both fuel pumps and charging stations



#### Utah

- Legislation passed to charge flat fees for alternative fuel vehicles
- MBUF may be used in lieu of flat fee
  - Enrollment starts Jan 1, 2020
  - Enroll with account manager using plug-in device or in-vehicle telematics
  - Out of state miles exempted
  - Odometer "true-up" at annual registration
  - MBUF amount can not be greater than flat fee

Year	Vehicle Type					
	Electric		PHEV		Gas	
					Hybrid	
2019	<b>ነ</b> ጉ	60	ጥ	26	<b>י</b>	10
2020	ጥ	90	\$	39	\$	15
2021	\$	120	\$	52	\$	20



## Financial Analysis What if we only focus on EVs?

#### **I-95 Corridor Coalition Analysis**

- Looked at DE & PA
- 15-year horizon assuming 10% annual growth in EV / PHEVs
- Additional administrative costs of MBUF 16% would need to be covered by relatively few vehicles



#### Analysis of increased EV registration fee in CA (UC-Davis)

 The fee recovers part of the decrease in fuel tax revenue; but it is "unsustainable" in the long run



## FUEL ECONONY

50 MPG
40 MPG
30 MPG
20 MPG

The principle of fairness seems to resonate with people.



## Results from a Recent Statewide Survey (DE & PA)

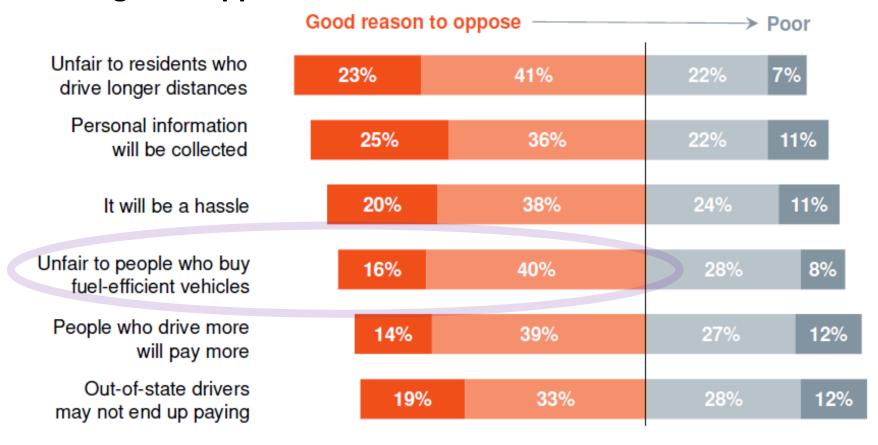
#### **Messages to Support MBUF**





### Results from a Recent Statewide Survey (DE & PA)

#### **Messages to Oppose MBUF**





## Why are Drivers Interested in Buying EVs?

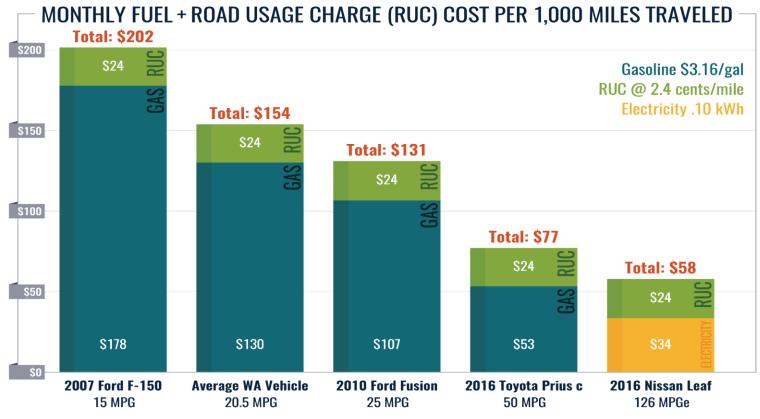
### Per AAA Survey in 2018

- Concern for environment (80%)
- Lower long-term costs (67%)
- Cutting edge technology (54%)
- Access to car pool lane (35%)





### Fuel Tax (or RUC) as a Portion of Total Fuel Costs



Washington State
Transportation Commission

While RUC does result in drivers of fuel efficient vehicles paying a little more in taxes for transportation as compared to the gas tax, the overall cost advantage of owning a fuel efficient, hybrid, or EV remains significant.

For example, under RUC, owners of a Prius will pay \$125 dollars per month less than the Ford pickup truck driver.

## An MBUF Could Allow Room for Policy Flexibili

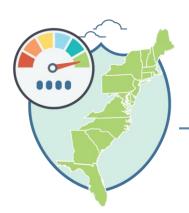


GASOLINE

ELECTRIC



KEEP IN MIND WHY WE'RE **EXPLORING** 



## Thank You!

Learn more at: www.195CoalitionMBUF.org

