

# Bringing MBUF Exploration to the East Coast

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## Insights to share from I-95 MBUF Study

1. The problem is here and now

2. Opportunities abound

3. I-95 MBUF study overview

4. Phase I pilot launch









## **Transportation fleet is changing**





#### **Transportation fleet is weakening**

Decrease in purchasing power of gas tax since 1993

39%



# 「(ツ)」

Drivers have no idea how little they are paying in gas tax.



#### 1 million times more memory



of memory on Lunar Module

64G of memory

on iPhone X

1:43

Thursday, January 16

#### Source: Network World





#### People are more connected & demanding









#### **East Coast voice is needed**





## **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

- Awarded two grants!
- **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?





#### **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.



# **OOS travel happens everyday**

- The I-95 MBUF study will examine issues associated with the large amount of out-of-state (OOS) travel in the corridor.
  - For example, over **4 million person trips** are made annually by car between the Washington DC metropolitan area and the Philadelphia, Pennsylvania area.
  - And, **16%** of Delaware residents **work in a another state** while **15%** of Delaware workers **live in another state**.

Philadelphia **150** miles Washington, DC

# Toll roads are common in the corridor

STAY

STOP AHEAD - PAY TOL

CASH

CARS - \$4.00

E-ZPass

PERMIT AND

WIDE LOAD

RIGHT LANE



## Intersection of Tolling and MBUF

- Interoperability
- Using toll data to support MBUF
  - Estimate out-of-state travel

#### • Using MBUF to support toll collection

- I-95 (Two-way barrier toll)
- Delaware Memorial Bridge (One-way barrier toll / entering DE)
- Delaware SR-1 (Toll depends on where vehicle enters / exits)
- Role of back office centers in MBUF





## **Exploring "Value-added" in cars**

"Technology and drivers' needs and wants are turning vehicles into a transportation 'Fitbit'"

Source: I95CC Round II STSFA Proposal





## What do people want?





Geofencing



Trip Log



**Battery Health** 



**Driver Scores** 



#### **Remote Emissions**



Gamification



#### **Engine Health**



#### Find My Car

# **5 Billion** TONS OF FREIGHT

SUIFT

CENTION (LINER )

AD.59CC3

Almost 40% of America's GDP passes through the Corridor

01170



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242312



#### Multi-State Truck Pilot- Phase II

- The I-95 Corridor Coalition truck pilot, slated to begin by the end of the year, will include 50 vehicles equipped with EROAD in-vehicle hardware for six months.
- The EROAD system will record accurate GPS-based mileage data and use applicable formulas to support MBUF.



Trucks have been collecting MBUF data for decades as part of the International Fuel Tax Agreement (IFTA)









#### Plug-In Device with Location

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**Trip Logs** Vehicle Health **Battery Voltage Driver Scoring Achievements** Safe Zones 2MyCar





#### TRIPS

Last 7	days 🔻			٥	
DATE	A START	BEND	EVENTS	MILES	~
5/17	4:30 PM	4:38 PM	0	2.2	
5/17	12:29 PM	1:45 PM	0	55.6	
5/17	11:52 AM	12:01 PM	0	1.5	
5/17	11:41 AM	11:47 AM	0	1.2	
5/17	8:38 AM	8:41 AM	0	0.5	
5/17	8:25 AM	8:32 AM	0	1.6	
5/17	7:37 AM	7:42 AM	0	1.2	
5/16	6:13 PM	7:03 PM	0	7.4	
5/16	8:02 AM	8:48 AM	0	7.5	
5/15	6:14 PM	6:50 PM	0	6.0	
5/ <mark>1</mark> 5	5:59 PM	6:10 PM	0	1.4	
5/15	3:57 PM	3:57 PM	0	0.0	~
			-		



Any anomalies in route shown do not affect your Mileage-Based User Fees

ACCOUNT SUMMARY		16 DAYS LEFT IN CYCLE 🔾
Funds in Wallet	Mileage-Based User Fee (MBUF)	
\$48.50	Mileage Based User Fee	\$3.07
Add Funds	Fuel Tax Credit	-\$3.13
	MAY MBUF	-\$0.06

			04-15-2018 MD		0.4	MBUF Total -\$0.06		
DATE S	STATE	BILLABLE MILES	04-15-2018	DC	6.8	MILEAGE-BASED USER FEE (MBUF) (\$)	FUEL TAX CREDIT (\$)	NET MBUF (\$)
05-01-2018	MD	65.5	04-15-2018	MD	0.6	\$1.00	-\$0.68	\$0.32
05-02-20 <mark>1</mark> 8	MD	37.0	04-15-2018	NC	72.0	\$0.56	-\$0.38	\$0.18
05-03-2018	MD	0.0				\$0.00	\$0.00	\$0.00



# Learn More

# www.i95coalitionmbuf.org