# State of Connecticut Governor's Transportation Financing Panel

#### MILEAGE BASED USER FEES

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## The Current State of the Issues

- The Highway Trust Fund
- The Future of the Surface Transportation Programs
- A New way to collect Trust Fund revenues

#### THE HIGHWAY TRUST FUND IN CRISIS

# HIGHWAY TRUST FUND FORECASTS AND LONG-TERM FUNDING

#### **HIGHWAY TRUST FUND PROJECTIONS**

Based on CBO Score of MAP-21 (June 2012)

#### **Highway Account**

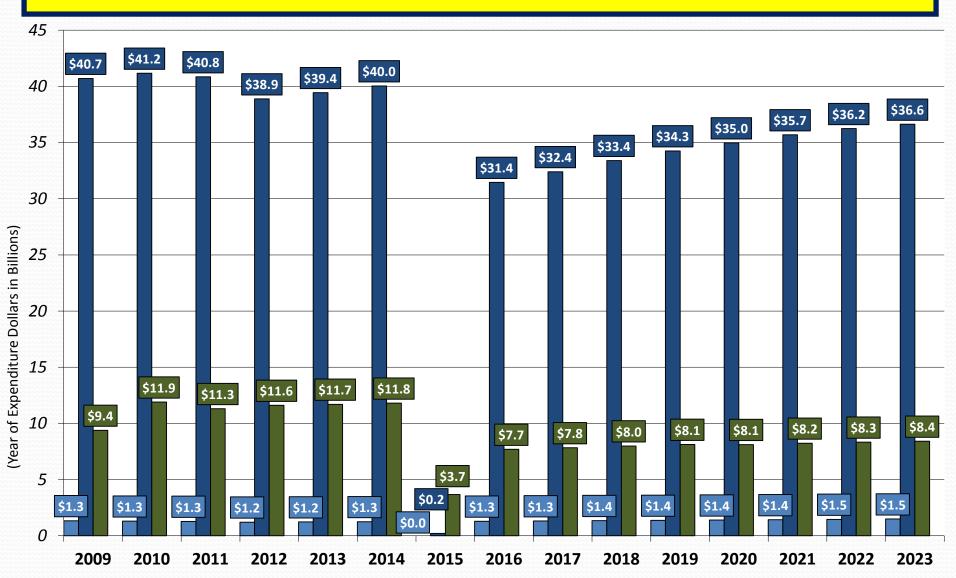
Fiscal Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Beginning-of-year Balance	\$14	\$8	\$4	\$4	-\$6	-\$15	-\$24	-\$33	-\$42	-\$52	-\$62
Revenues and Interest	\$33	\$33	\$33	\$34	\$35	\$36	\$36	\$36	\$36	\$37	\$37
Intragovernmental Transfers	\$2	\$6	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Outlays	\$42	\$43	\$44	\$44	\$44	\$45	\$45	\$46	\$46	\$47	\$47
End-of-year Balance	\$8	\$4	\$4	-\$6	-\$15	-\$24	-\$33	-\$42	-\$52	-\$62	-\$72

#### **Mass Transit Account**

2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
\$7	\$5	\$5	\$1	-\$3	-\$7	-\$12	-\$16	-\$20	-\$24	-\$29
\$5	\$5	\$5	\$5	\$5	\$5	\$5	\$5	\$5	\$5	\$5
\$0	\$0	\$2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$7	\$8	\$8	\$9	\$10	\$10	\$10	\$9	\$9	\$10	\$10
\$5	\$5	\$1	-\$3	-\$7	-\$12	-\$16	-\$20	-\$24	-\$29	-\$33
	\$7 \$5 \$0 \$7	\$7 \$5 \$5 \$5 \$0 \$0 \$7 \$8	\$7 \$5 \$5 \$5 \$5 \$0 \$0 \$2 \$7 \$8 \$8	\$7       \$5       \$5       \$1         \$5       \$5       \$5       \$5         \$0       \$0       \$2       \$0         \$7       \$8       \$8       \$9	\$7       \$5       \$5       \$1       -\$3         \$5       \$5       \$5       \$5         \$0       \$0       \$2       \$0       \$0         \$7       \$8       \$8       \$9       \$10	\$7       \$5       \$5       \$1       -\$3       -\$7         \$5       \$5       \$5       \$5       \$5         \$0       \$0       \$2       \$0       \$0       \$0         \$7       \$8       \$8       \$9       \$10       \$10	\$7       \$5       \$5       \$1       -\$3       -\$7       -\$12         \$5       \$5       \$5       \$5       \$5       \$5         \$0       \$0       \$2       \$0       \$0       \$0       \$0         \$7       \$8       \$8       \$9       \$10       \$10       \$10	\$7       \$5       \$5       \$1       -\$3       -\$7       -\$12       -\$16         \$5       \$5       \$5       \$5       \$5       \$5       \$5         \$0       \$0       \$2       \$0       \$0       \$0       \$0       \$0         \$7       \$8       \$8       \$9       \$10       \$10       \$10       \$9	\$7         \$5         \$5         \$1         -\$3         -\$7         -\$12         -\$16         -\$20           \$5         \$5         \$5         \$5         \$5         \$5         \$5         \$5           \$0         \$0         \$2         \$0         \$0         \$0         \$0         \$0         \$0           \$7         \$8         \$8         \$9         \$10         \$10         \$9         \$9	\$7         \$5         \$5         \$1         -\$3         -\$7         -\$12         -\$16         -\$20         -\$24           \$5         \$5         \$5         \$5         \$5         \$5         \$5         \$5           \$0         \$0         \$2         \$0         \$0         \$0         \$0         \$0         \$0         \$0           \$7         \$8         \$8         \$9         \$10         \$10         \$10         \$9         \$9         \$10

TOTAL HTF BALANCE	¢12	\$9	ĊГ	-\$9	¢22	¢26	-\$49	¢62	¢76	¢01	Ć10E
TOTAL HIF BALANCE	ŞΙΌ	ÇĢ	ŞΟ	-75	-322	-220	-945	-302	<b>-970</b>	-SZT	-2102

# If no new revenues are found, federal highway obligations will fall by almost 100% in FY 2015



#### **Matrix of Surface Transportation Revenue Options**

(All revenue estimates in \$ millions)

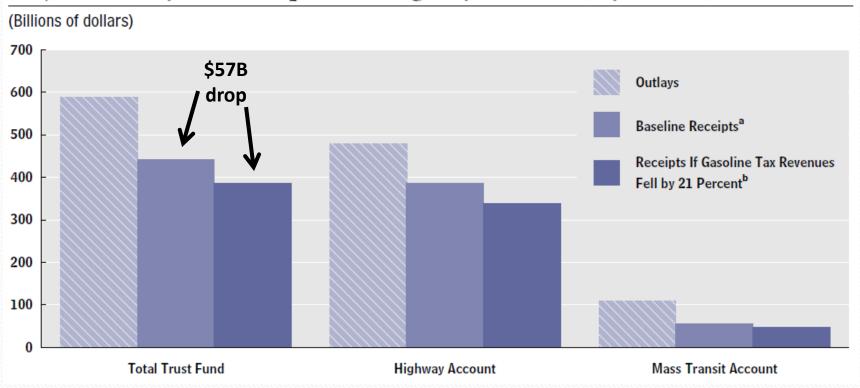
TIFC ore*		ld	Current	Illustrative	Re	venues	Δνσ Βονορμος	Total	
ore*		NSTIFC Mechanism Yield				venues	Ave nevenues	Total Revenues	
	(2012)		Rate	Rate		2011	2012-2017	20	12-2017
665	1% of Sales =	\$ 162	N/A	5.0%	\$	812	\$ 1,359	\$	8,152
640	\$1.00 Fee =	\$ 1,862	N/A	\$3.00	\$	5,585	\$ 5,881	\$	35,284
575	1¢/gal =	\$ 386	24.4¢/gal	15.0¢	\$	5,786	\$ 6,226	\$	37,356
575			N/A		\$	-	\$ 585	\$	3,512
575	1¢/gal =	\$ 1,327	18.4¢/gal	10.0¢	\$	13,272	\$ 13,303	\$	79,818
575			N/A		\$	-	\$ 1,370	\$	8,218
540	1% of Receipts =	\$ 277	N/A	1.0%	\$	277	\$ 360	\$	2,161
365	100% Increase =	\$ 346	N/A	10.0%	\$	35	\$ 45	\$	270
320	\$1.00 Fee =	\$ 248	N/A	\$10.00	\$	2,482	\$ 2,614	\$	15,682
320	\$1.00 Fee =	\$ 9	N/A	\$15.00	\$	129	\$ 131	\$	787
315	100% Increase =	\$ 944	N/A	15.0%	\$	142	\$ 141	\$	844
300	\$1 per TEU=	\$ 391	N/A	\$15.00	\$	5,866	\$ 6,401	\$	38,408
270	\$1.00/Bbls =	\$ 3,528	N/A	\$1.00	\$	3,528	\$ 3,528	\$	21,171
250	1.0% of Sales =	\$ 850	N/A	10.6%	\$	9,013	\$ 10,862	\$	65,172
250	1.0% of Sales =	\$ 3,347	N/A	8.4%	\$	28,112	\$ 34,108	\$	204,647
140	1% of Sales =	\$ 7,612	N/A	1.0%	\$	7,612	\$ 8,452	\$	50,713
140	1% of Sales =	\$ 6,608	N/A	1.0%	\$	6,608	\$ 7,338	\$	44,028
110	1.0% of Sales =	\$ 2,619	N/A	1.0%	\$	2,619	\$ 2,619	\$	15,715
110	1.0% of Sales =	\$ 1,625	N/A	1.0%	\$	1,625	\$ 1,625	\$	9,752
090	0.1% Tax =	\$ 1,236	N/A	0.5%	\$	6,181	\$ 6,745	\$	40,472
985	\$1.00 Surcharge =	\$ 214	N/A	\$5.00	\$	1,072	\$ 1,116	\$	6,694
940	0.1% of current taxes =	\$ 198	N/A	1.0%	\$	1,984	\$ 4,291	\$	25,745
940	0.1% of current taxes =	\$ 956	N/A	1.0%	\$	9,560	\$ 15,429	\$	92,576
925	1.0% of Sales =	\$ 2,327	N/A	1.0%	\$	2,327	\$ 2,613	\$	15,680
140	1¢/VMT =	\$ 6,499	N/A	2.0¢	\$	12,998	\$ 13,475	\$	80,851
140	1¢/VMT =	\$ 908	N/A	3.0¢	\$	2,723	\$ 2,823	\$	16,936
995	1¢/ton-mile =	\$43,497	N/A	0.5¢	\$	21,748	\$ 24,150	\$	144,898
995	1¢/ton-mile =	\$12,731	N/A	0.5¢	\$	6,365	\$ 7,068	\$	42,409
855	1¢/ton =	\$ 164	N/A	25.0¢	\$	4,111	\$ 4,565	\$	27,389
855	1¢/ton =	\$ 113	N/A	25.0¢	\$	2,835		_	18,890
	640 575 575 575 575 575 575 575 57	\$1.00 Fee = 1	\$1.00 Fee = \$ 1,862 \$1.00 Fee = \$ 1,862 \$1.00 Fee = \$ 386 \$1.00 Fee = \$ 1,327 \$1.00 Fee = \$ 1,327 \$1.00 Fee = \$ 277 \$1.00 Fee = \$ 346 \$1.00 Fee = \$ 248 \$1.00 Fee = \$ 248 \$1.00 Fee = \$ 944 \$1.00 Fee = \$ 944 \$1.00 Fee = \$ 944 \$1.00 Fee = \$ 3,528 \$1.00 Fee = \$ 3,347 \$1.00 Fee = \$ 3,466 \$1	\$1.00 Fee = \$ 1,862	\$1.00 Fee	\$1.00 Fee			

<sup>\* &</sup>quot;NSTIFC Score" refers to revenue mechanism evaluations conducted by the National Surface Transportation Infrastructure Financing Commission based on revenue stream, economic efficiency/impact, implementation/administration, and equity considerations.

<sup>\*\*</sup> VMT fee estimates refer to miles traveled on the Interstate System.

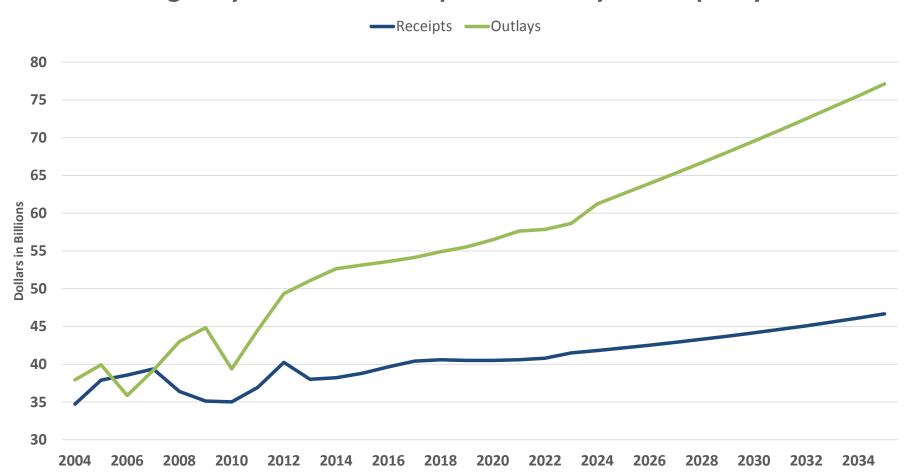
# Highway Trust Fund Headwinds: #3. Alternative fuel vehicles will further erode future HTF receipts.

#### Projected Outlays and Receipts of the Highway Trust Fund, by Account, 2012 to 2022



# But outlays will outpace receipts by about \$15 billion per year and more for a foreseeable future.





Excludes \$8.017 billion transfer from General Fund to Highway Account of HTF in September 2008; \$7 billion transfer from General Fund to Highway Account of HTF in August 2009; \$19.5 billion transfer from General Fund to Highway and Mass Transit Accounts of HTF in March 2010; \$2.4 billion transfer from Leaking Underground Storage Tank Trust Fund to HTF in July 2012; \$6.2 billion transfer from General Fund to Highway Account of HTF in FY 2013; \$10.4 billion transfer from General Fund to Mass Transit Account of HTF in FY 2014.

#### WHAT IS HAPPENING IN WASHINGTON?

- The Senate is trying to move a six year bill with three years of funding
- The House T and I Chair describes it as DOA
- It still remains unclear even if the Senate passes it whether it will ever make it to law
- It does contain a provision for pilots of alternative revenue mechanisms with over \$100 million in funding for tests
- It still doesn't address the long-term solvency of the HTF

### MILAGE BASED USER FEES

• What do we know?

• What are the issues?

• What are the options?

## THE STATE OF PLAY

- 2006: TRB publishes a report showing the current system of user fees is not sustainable
- 2008: The National Surface Transportation Policy and Revenue Study Commission reports calling for alternatives to the gas tax
- 2009: The National Surface Transportation Infrastructure Financing Commission also concludes we need a new approach to funding and financing
- AASHTO reaches the same conclusions in 2009

### WHAT DID THEY RECOMMEND?

- The National Transportation Policy and Revenue Study Commission concluded that:
  - "Long-term mileage based user fees are necessary to meet financing needs. However, they call for considerable study and pilots to address a series of issues with user fee system."
- The Financing Commission concluded that:
  - "Direct user charges in the form of mileage base user charges are the most viable and sustainable longterm user pay option for the Federal government."

# **RESEARCH TO DATE**

# NCHRP 20-24(69): Implementable Strategies for Shifting to Direct Usage-Based Charges for Transportation Funding (2009)

- VMT fees face two significant policy obstacles:
  - Instituting VMT fees increasing them may face as much opposition as increasing fuel taxes
  - Administration of VMT fees will be more costly and burdensome than fuel tax collection
- Many potential VMT metering and charging systems could, from a technical perspective, be implemented within a few years.
- Transportation funding deliberations provide an opportunity to initiating a potential transition to VMT fees in 2015.
- In contrast to a general system of VMT fees for all vehicles, weight-distance truck tolls could be planned and implemented now.

# **RESEARCH TO DATE**

#### NCHRP 20-24(69)A: System Trials to Demonstrate Mileage-Based Road Use Charges (2010)

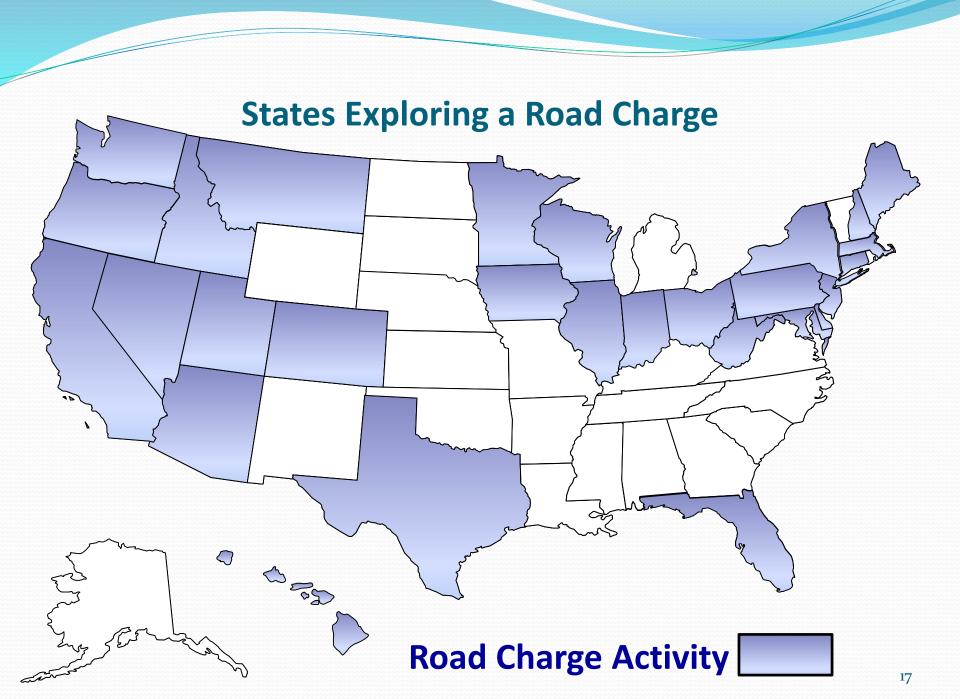
- While trials in this study would require considerable investment, they would also play a critical role to prepare for the potential implementation of VMT fees by states or at the federal level within the next five to ten years.
- Prospect of designing, implementing, and transitioning to a system of VMT fees poses numerous technical, institutional, and political challenges and there are many remaining uncertainties.
- Trials described in this study are explicitly intended to reduce or resolve such uncertainties in order to inform the policy debate and prepare for the possibility of subsequent implementation.

## **RESEARCH TO DATE**

#### I-95 Corridor Coalition: Concept of Operations for the Administration of Mileage-Based User Fee in a Multistate Environment (2012)

- Interviewees advised that initial MBUF system implementation should be simple and phased.
- States should have a long-term vision for a coordinated, multistate MBUF system, and then move incrementally toward that vision.
- Federal leadership is valued, but it may be desirable for several cooperating states to begin the process of transitioning to an MBUF system on a multistate basis.
- Ultimately, implementation of MBUF systems in the U.S. will be driven by how well transportation policymakers address key issues of concern to the traveling public.

- In recent years a number of states have begun examining the concept of MBUF as a way forward.
- a number of states including Oregon, California, Nevada, Washington State, Minnesota, and the I Ninety Five Corridor Coalition have commissioned pilots and studies on the concept.
- Coalitions have been formed including the Western Road User Charges (WRUC) to research and advance knowledge of user fee concepts
- The DRIVE act under consideration in Congress contains funding for pilots for alternative revenue mechanisms



#### WHERE DO WE GO FROM HERE?

- The future of a dedicated Federal surface transportation infrastructure investment program requires new methods to generate revenue
- Several major commissions and organizations have concluded that mileage based user fees are a viable way to advance long-term revenue collections
- The key to overcoming issues with this approach is to conduct pilots that will help to refine best practices for adopting such systems
- We commend your state and others for moving to consider mileage based user fees

# **Other Options**

- Mileage based user fees are a key way forward
- Other complimentary approaches include:
  - Expansion of tolling options
  - Local land use fees
  - The use of local option sales taxes

The are additive approaches but need to be combined with a steady predictable way of collecting revenue

## A FINAL THOUGHT

- The definition of insanity is to do the same thing and expect a different result
- We have had more studies than Hannibal had elephants crossing the alps
- If we don't start to move to solve the funding crisis we are clearly doomed to destroy the lifeblood of our economy the transportation system

# Questions?