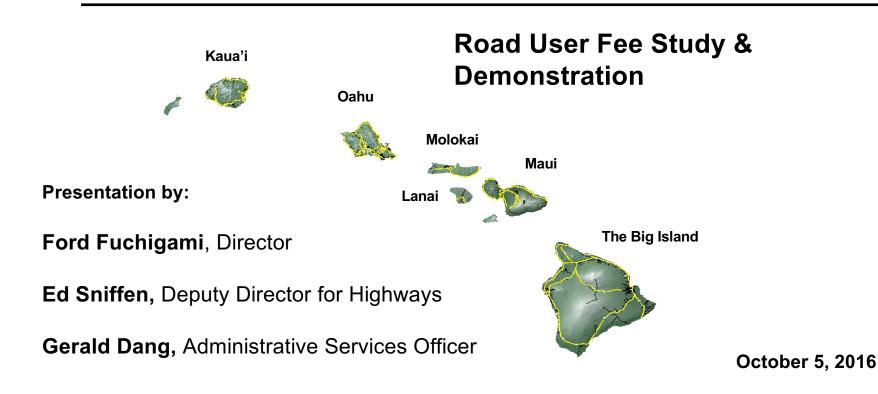


State of Hawaii



Department of Transportation Highways Division

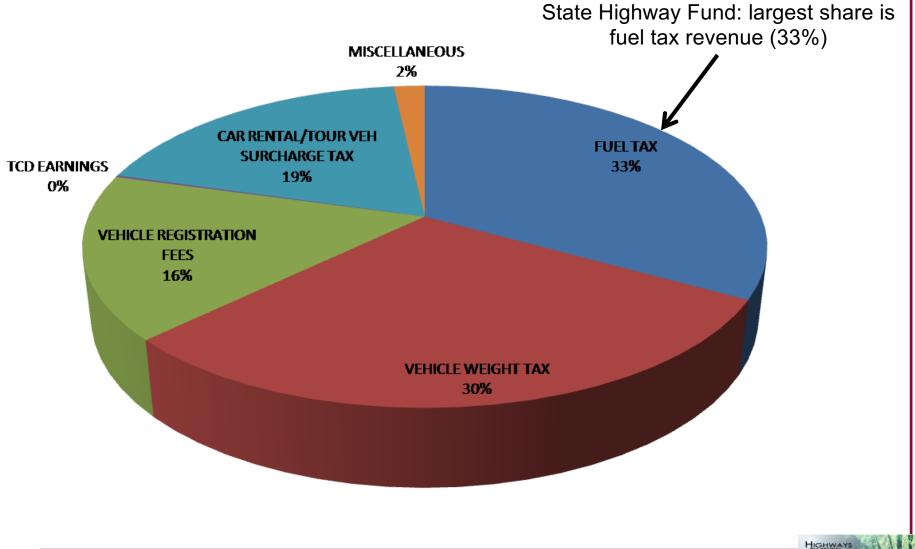


Topics for Discussion

- Current Transportation Funding Situation
- Impacts of Energy Policy on Future Transportation Funding
- Road User Fee as a Potential Solution
- HDOT's Response: Joint Research with RUC West States
- HDOT's Response: Feasibility Study
- HDOT's Response: Grant Proposal for Demonstration Project

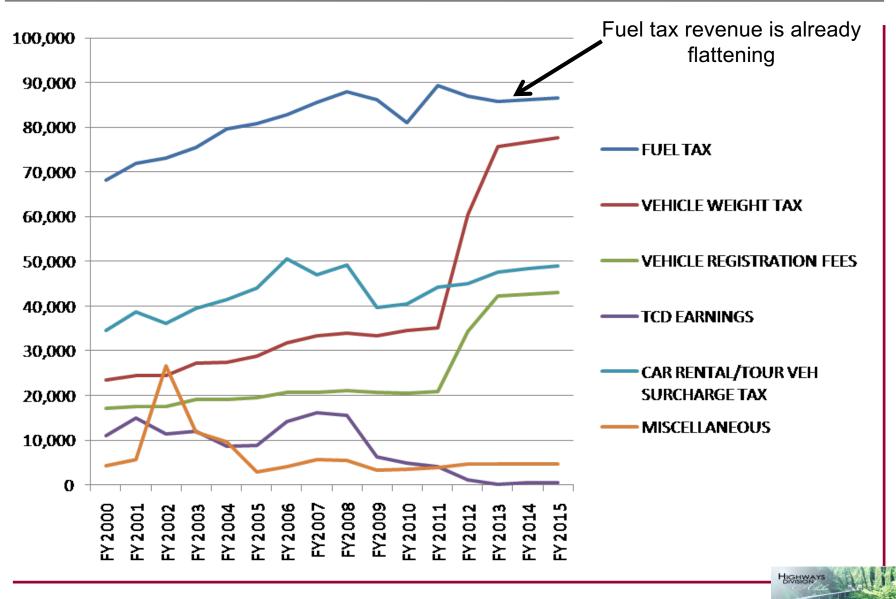


The Situation: The largest share of State Highway Fund revenue comes from <u>fuel taxes. Counties also depend on fuel taxes for their roadway funding.</u>

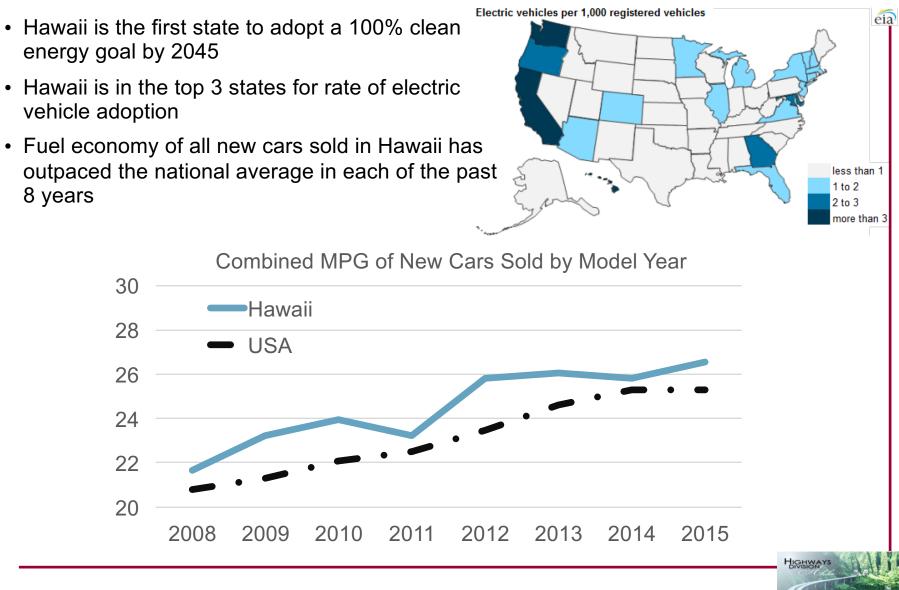




The Situation: Recent fuel tax revenue trends are flatter than historical trends

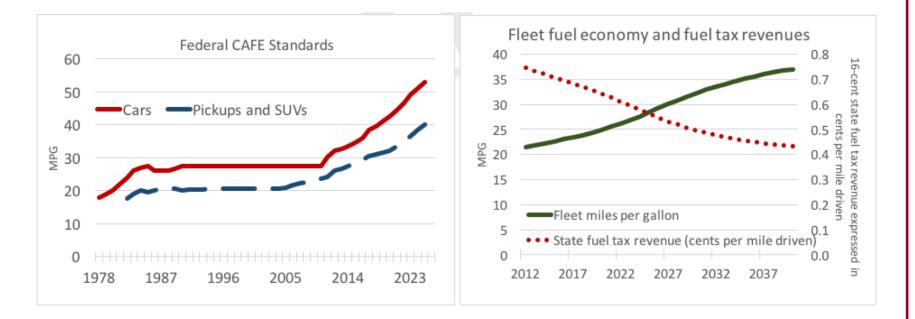


Energy Policy: Hawaii is leading the way to a clean future



The Problem: Federal fuel economy standards are eroding Hawaii's fuel tax revenue per mile driven

Passenger cars are using less gasoline now, and this trend will accelerate in the next decade. This is **good news** for the **environment** and our **energy security**... ...but **bad news** for funding roadway maintenance and improvements in Hawaii.

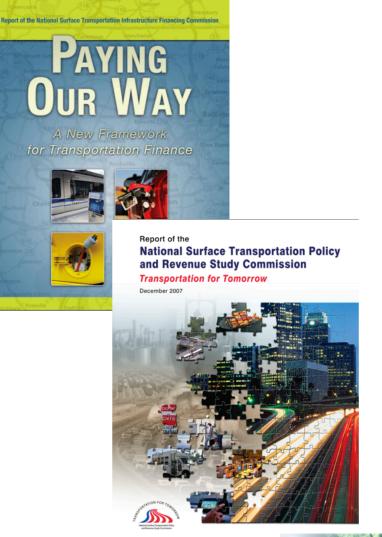


As fuel economy improves (solid green line), motorists will contribute less in fuel tax per mile driven (dotted red line).



National Response: Federal Commissions on Sustainable Funding

- National Surface Transportation Policy and Revenue Study Commission, 2007: A funding and finance framework that relies on more direct forms of "user pay" charges such as a VMT fee system is the consensus choice for the future. The Commission's extensive investigation into alternative funding approaches has proved to its satisfaction that a VMT-based system is the best available option for the next-generation federal revenue system.
- National Surface Transportation Infrastructure Financing Commission, 2009: *The Commission recommends that the next surface transportation authorization act require a major national study to develop the specific mechanisms and strategies for transitioning to an alternative to the fuel tax to fund surface transportation programs.*

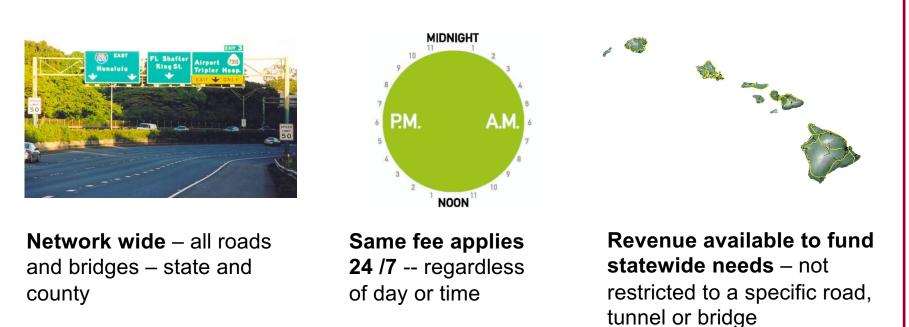




Potential Solution: Road user fees

Road user fee: a per-mile fee drivers would pay instead of the gas tax.

Features:



Instead of paying for roadways based on how much gasoline cars *burn*, drivers would pay based on how much of the *roadway they use* (measured in miles).



HDOT's Response: Joint research with other Western states



NEW PATHS TO ROAD FUNDING

Projects with HDOT participation

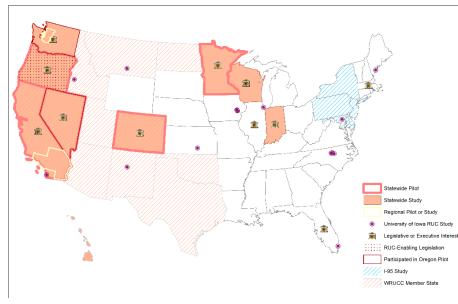
- Web-based cost of transportation calculator
- Roadmap for considering road user fees
- Protection of privacy in a road user fees system
- Regional pilot system definition
- Effects of road user fees on rural residents
- Communications strategies

- Provides a collaborative forum to share information and best practices, discuss issues, observe and learn from other DOTs who are at different stages of testing and implementation, and facilitate joint research.
- Hawaii joined in March 2014
- Currently 14 member states



HDOT's Response: Investigating the feasibility of a road user fee for Hawaii

Like many other states in the U.S., HDOT is investigating a potential road user fee for Hawaii.



- As of early 2016, 9 states had conducted or were conducting statewide studies or tests of permile fees (darker orange)
- Hawaii is one of 14 states participating in RUC West (lighter orange)

Input from: DBEDT, DOTAX, All Counties including Honolulu DIT, HTA

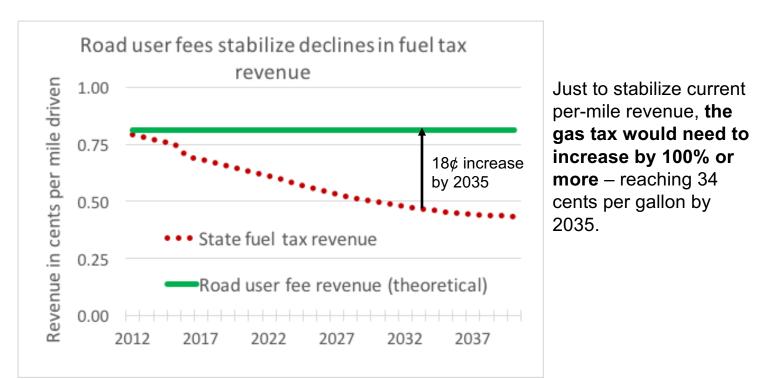
Completed: Statewide Road User Fee Feasibility Study

- ✓ Identified *potential benefits, issues, concerns and policy choices* for public officials
- ✓ Provided operational concepts for how road user fees might work in Hawaii
- ✓ Completed a *financial analysis* of road user fees vs. gas taxes in Hawaii
- ✓ Identified *public acceptance factors* for road user fees in Hawaii



Advantage: Road user fees provide a sustainable transportation revenue source for all roadways in Hawaii

As fuel economy continues to improve, revenue for road maintenance and repairs declines (dotted red line).



Road user fees stabilize the per-mile revenue for roadways (solid green line above), even as vehicle fuel economy in Hawaii continues to grow.

With road user fees, the per-mile rate need not be increased to maintain the same permile revenue.



Concern: Making sure road user fees are fair to lower-income and rural residents

When first hearing about a potential per-mile fee, some people assume this would unfairly cost more to lower-income households or those who live in rural areas.



Concerns from:

- Rural residents
- Long-distance daily commuters
- Lower-income populations

...but analysis shows that lower-income and rural drivers may benefit from road user fees

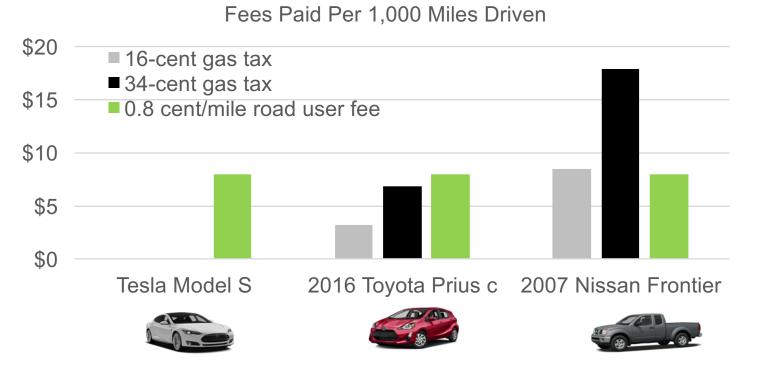
Region	Average MPG of Cars Registered in Rural Areas	Average MPG of Cars Registered in Urban Areas	2	-
Statewide	21.59	22.94		
City & County of Honolulu	22.36	22.97		
Hawaii County	21.50	22.94	Average Highway MPG by ZIP Code Tabulation Area	
Kauai County	21.28	23.44	less than 24.5 24.5 - 25	
Maui County	21.75	22.65	25.1 - 25.7 25.7 - 27 more than 27	

Rural drivers and lower-income households tend to drive older, less fuel-efficient vehicles. They *already pay more than other drivers*, so on average a road user fee would be a cost savings.



Advantage: Road user fees are direct charges – all drivers pay the same per mile driven

As drivers opt for electric, hybrid, and other highly-efficient cars, the amounts they contribute in gas taxes for roads becomes *increasingly inequitable* even though they may travel the same number of miles (compare the **gray bars** below):



Like electricity and water utilities, **drivers would pay equally based on their use of Hawaii's road system** regardless of the type of vehicle they drive (compare the **green bars** above).



Road User Fees: How it might work

There are many ways a mileage charge can be applied. Other states considering road user fees would **allow drivers to choose** which mileage reporting method they prefer:

High-tech options...



Built-in electronic systems



Smartphone apps



Plug-in mileage meters



Pay-at-the-pump systems

... or Low-tech options...



Purchase a permit to drive a set # of miles



Report total miles driven during annual vehicle safety inspection or vehicle registration

		NOVE	MBEI	a 201 :	4	1
	MON	TUE	WED	THU	FRI	SAT
SUN	MON			1	2	3
		0	7	8	9	10
4	5	6	-	~ ·		
		-	3.4	15	16	17
11	12	13	14	10		-
		-	100	22	23	24
18	19	20	21	22		_
		-	00	29	30	
25	26	27	28	29		

Pay a flat-rate fee to drive unlimited miles in a year



Road User Fees: How it might work (continued)

Hawaii already collects mileage data during annual vehicle safety inspections, making a future transition to road user fees **easier for drivers** and **less costly to the state**.

VEHICLE INSPECTION REPORT	
	VELCE UNSPECTION REPORT NIMING VIMING VIMING

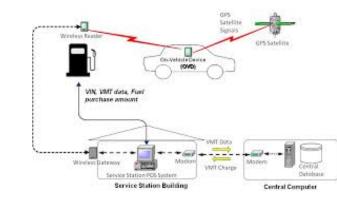
Vehicle mileage in Hawaii is checked and reported by independent inspectors



Potential Issue: Protecting the personal privacy of drivers

Before 2008, high-profile tests of per-mile fee systems required government-mandated GPS devices. Many people viewed this as an invasion of personal privacy. **No state is considering a GPS mandate**, yet media reports of "tracking" still prevail.







Providing drivers the *option* of using a location-aware mileage meter allows them to automatically deduct miles driven in neighboring states. Given Hawaii's lack of interstate travel by car, **GPS systems are unnecessary**.

Today's road user fee systems do not require government "tracking" of vehicles. **There** is no reason for GPS devices to be required in a road user fee system in Hawaii.



Opportunity for Hawaii: Federally-funded pilot project to let drivers test road user fees

Research and analysis **will help answer some questions**, but research alone cannot provide critical insight into which mileage fee methods the public might find acceptable – **public acceptance is best discovered through a limited, live demonstration of a road user fee system in Hawaii**.

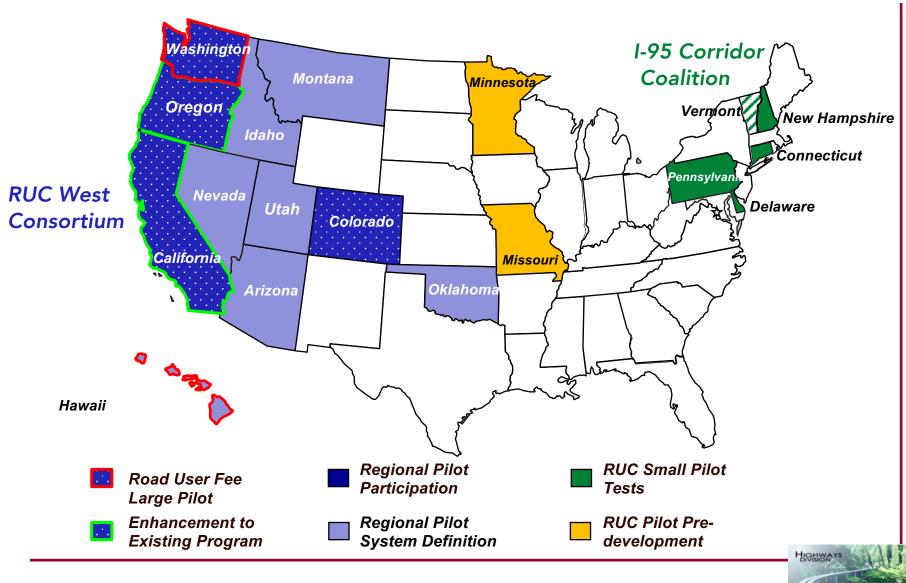


Federal FAST Act Grant Proposal (\$6.5 M federal funds requested, 36-month pilot):

- Provides Hawaii residents an opportunity to "test drive" a road user fee system at no additional costs to the drivers
- Likes, dislikes and strong public preferences can be measured based on actual experience – not fears or conjecture
- > Provides a careful, deliberative and inclusive public policy-making process

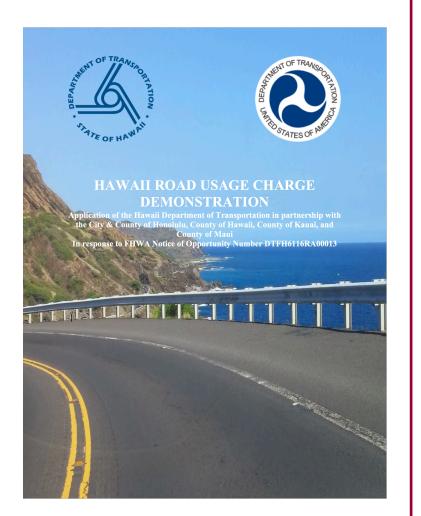


FAST Act Grants: States awarded funds to test user-based revenue alternatives



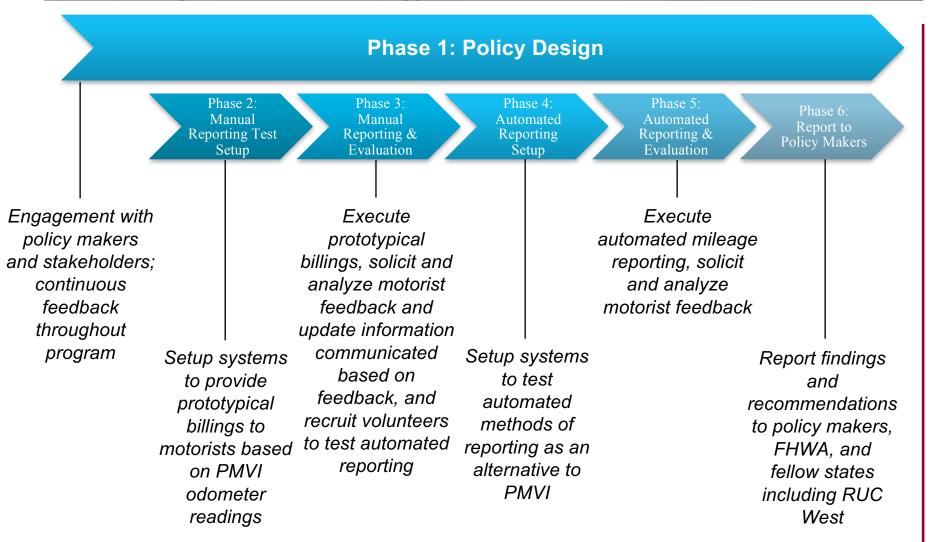
Hawaii Demonstration Project: Tailored to address real challenges and generate outputs of value to Legislators and stakeholders

- Largest road user fee demonstration proposed, allowing for widespread communications and continuous feedback from our state's residents and continuous system modification and improvement
- Test a statewide road user fee not only as a potential successor to state fuel taxes but also as a potential platform for collecting federal fuel taxes, county fuel taxes, and other state and county userbased fees such as registration and weight fees
- Engage with Legislators, stakeholders, and motorists to gather feedback that informs policy recommendations on whether and how to enact a RUC
- Awarded \$3.998 million in Federal funds





Hawaii Demonstration Project: 6 phases, building on existing procedures and exploring advanced technology





Hawaii Demonstration Project: Collaboration





Hawaii Demonstration Project: Build on analysis of open questions

- How can road user fees and state energy objectives align?
- How can impact of road user fees on rural residents and long-distance commuters be addressed?
- How can impact of road user fees on low-income drivers be addressed?
- · How efficiently can road user fees be collected and enforced?
- What are the possibilities for integrating road user fees with existing vehicle fees and considering periodic payments rather than annual lump-sum payments?
- How can a road user fee ensure visitors (rental cars) contribute their fair share?

Support: How leaders can support HDOT's exploration of road user fees

As HDOT investigates road user fee, there are several ways that leaders can support efforts to find a sustainable and equitable revenue source for transportation.

Support HDOT's information gathering:

- Get involved with the demonstration project to help gauge public acceptance factors
- Provide inputs including questions that HDOT can address through demonstration project and related research

Share the facts:

- HDOT is researching this option to gather information that allow us to make recommendations to policy makers
- No "tracking" of vehicles is required or needed
- Road user fees are a potential replacement for gas taxes, not a new tax
- All issues and concerns will be fully explored and analyzed

Try before you buy:

- Volunteer to participate in the detailed test phase (Phase 2)
- Encourage others to actively participate in the test a unique chance for the public to "test drive" an innovative approach, and share their preferences







Questions?

