State Transportation Initiatives: Oregon & California Road Usage Charge Programs

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Why do we need a road usage charge?

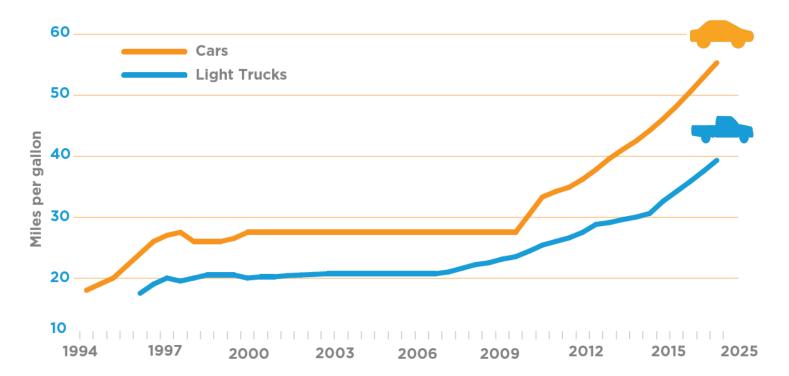


Federal funds are drying up.

Construction costs are going up.

The gas tax can't keep up.

Increasing Vehicle Fuel Efficiency

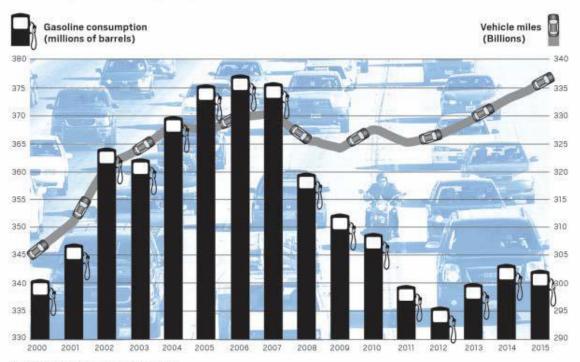


<u>CAFE Standards 1978-2010</u>: National Highway Traffic Safety Administration <u>CAFE Standards 2011-2016</u>: U.S. Environmental Protection Agency CAFE 2012-2016 Final Rule <u>CAFE Standards 2017-2025</u>: U.S. Environmental Protection Agency CAFE 2017-2025 Final Rule

Projected loss by relying on fuels tax

LESS GAS, MORE MILES

As the number of miles driven by Californians rises, gas consumption has plummeted, spelling trouble for a transportation system that relies on gas tax revenue to pay for repairs.



Source: Federal Highway Administration, Next 10

The future is now.

In

What is a Road Usage Charge?

The "User Pays Principle"

Technology-based road usage charging gets us back to the user pays principle.

The RUC concept



Collect fuels tax as prepayment of RUC



Count the miles and multiply by the RUC rate

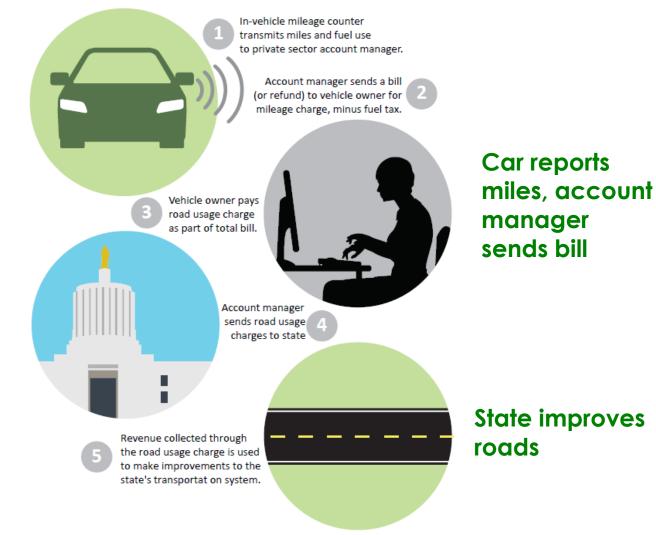


Collect the net tax or credit the difference

How does a RUC system work?

Driver selects account, activates tech

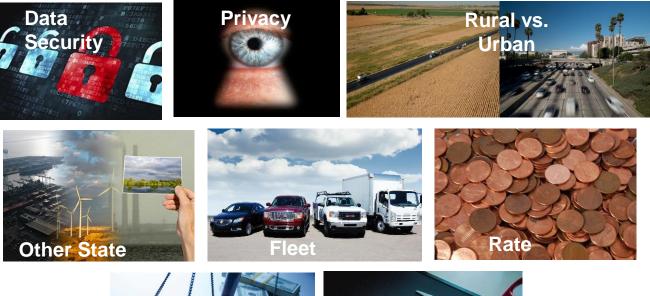
Driver pays bill, account manager pays state



Perceptions/Myths

1st Step: Seeking Public Input

Challenges/Issues



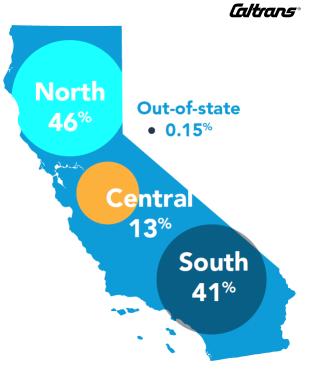


California's RUC program

The Road Charge Pilot Program

Achieved Many First:

- Maintained more than 5,000 participating vehicles over a nine-month period
- Demonstrated six reporting and recording methods
- Offered manual, low tech, and high tech reporting methods
- For the first time included heavy commercial vehicles



Making it the largest road charge pilot in the nation to date!

CA Pilot – Lessons Learned

- Certain demographic targets set by the TAC were unattainable
- ✓ Education during the pilot led to an increase in acceptance
- Most think a road charge funding model is more equitable
- ✓ System requirements were successfully developed, tested, and audited
- Successful in studying the viability of using third-party vendors
- Demonstrated the ability to offer value-added features as an enhancement to the user experience





% felt a road charge was a more equitable transportation funding solution than the gas tax

Technologies – Lessons Learned

Mileage Options

All reporting methods worked, some better than others.

Manual options

- ✓ Highest degree of privacy
- ✓ Most difficult to enforce
- ✓ Costly to administer compared to the gas tax

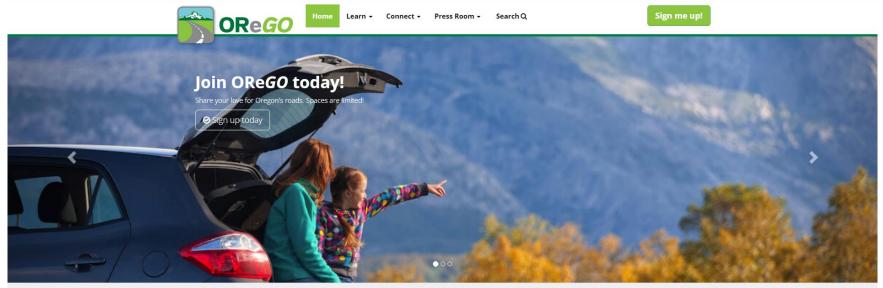
Automated options

- Plug-in devices are most reliable; as technology advances could be obsolete by the time road charge is adopted
- Smartphone app with location & in-vehicle telematics show great promise, but need further refinement





Oregon's RUC program

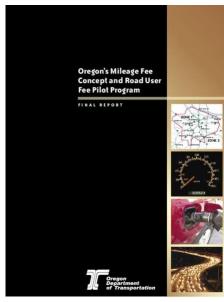


OReGO. Sign up today!

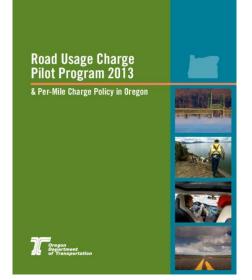


www.MyOReGO.org

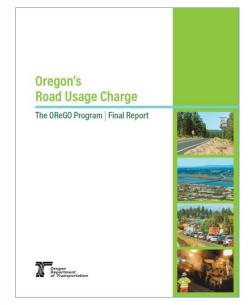
Oregon's RUC evolution



Road User Fee Pilot (2006-07)



Road Usage Charge Pilot Program (2012-13)



OReGO (2015-present)

Oregon's lessons learned

Support all vehicles

Enforcement drives costs

Be technology neutral



OReGO

Effective private sector relations Provide choices

Experience increases comfort

California-Oregon regional pilot

The FAST Act – multiple grants awarded

- Demonstrate user-based
 alternatives
- 5 year \$95 million grant program
- Eligible to a state or group of states to test road charge design, acceptance and implementation





The FAST Act – grant selections

FFY 2016

8 grants awarded

California, Delaware, Hawaii, Minnesota, Missouri, Oregon, Washington, RUC West

\$14.2 million

FFY 2017

7 grants awarded

California, Colorado, Delaware, Missouri, Oregon, Washington, RUC West

\$15.5 million

\$65.3 million left in the next 3 years

The FAST Act – RUC West

Round 1 - (2016)

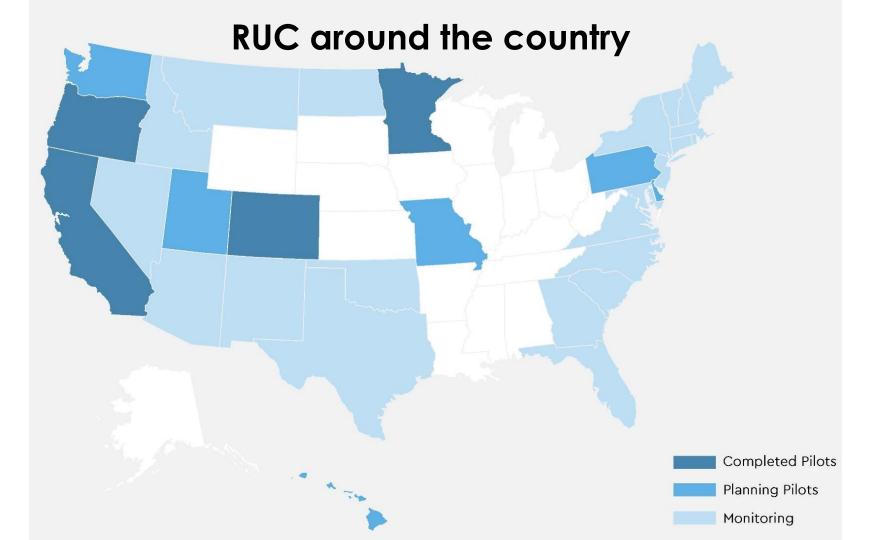
- Regional pilot planning
- 11 participating states
- Builds on RUC West funded projects
- Utilizes lessons learned from existing RUC projects
- Defines a regional system
- Investigating interoperability

Round 2 - (2017)

 Regional pilot demonstration – CA & OR

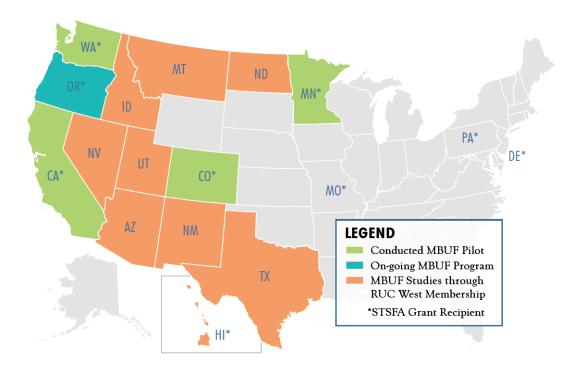


Future momentum



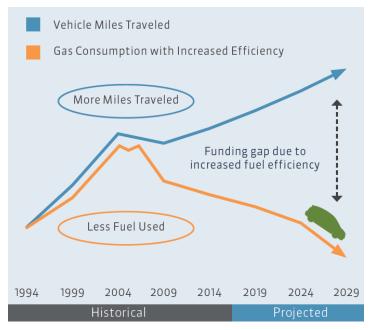
What are other states doing?

- States Conducted Pilots
- Oregon has On-going Program
- Statewide Studies through RUC WEST
- I-95 Corridor Coalition
 MBUF Exploration



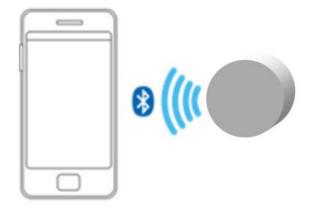
What does the future hold?

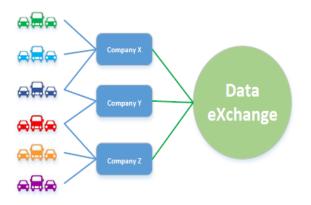
- Fuel tax revenue estimated decrease due to decline in gasoline consumption
- CA vehicle fleet transitioning to higher fuel efficient vehicles
- Continued reliance solely on the gas tax will result in revenue deficiencies in the long run
- Advanced Technology
- Connected Cars



New Technologies









Technical considerations of RUC

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TATA

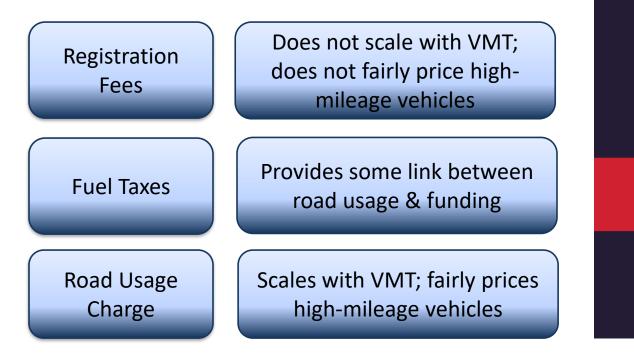
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Connection to automated vehicles

The future of funding Considerations





Economic Report of the President

Together with The Annual Report of the Council of Economic Advisers

February 2018



Thank You!

Norma Ortega Norma.Ortega@dot.ca.gov California Final Report: www.californiaroadchargepilot.com/final-report

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