Challenges

- Rapidly changing technologies
- Impacts on revenue
- Business Disruption
- OReGO
FAST Act funded work

[Diagram showing:
- ORego
- Ability to support all vehicles
- Public perception & acceptance
- Enforcement]
Interoperability demonstrations
Test RUC as a possible local funding option

Static, variable rates

Layered options

Corridor options
Transportation systems are becoming information systems.

Roadways are influenced by digital messages, not just physical infrastructure.

Can improve safety and mobility.

Develop a connected vehicle ecosystem.
Share the mobility marketplace vision

- Interoperable
- Integrated user experience
- A market for service delivery business partners
National Perspective
National Pilot Discussions

- Indiana DOT
- Chicago MPO
- University of Minnesota
- NGA Western Region
- France
- MBUFA
- Israel Prime Minister’s Office
- IBTTA
- SAE
HiRUC
HAWAII ROAD USAGE CHARGE DEMONSTRATION

DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII
How it works

• Collect odometer readings during annual safety checks
• Vehicle owners receive driving report
  • Miles driven
  • Amount paid in gas tax
  • Amount they would have owed with a RUC
• No real money is being used
• Other technologies will be tested as well
• Driver preferences will be solicited
• Results of 3-year pilot will be shared with elected officials
HiRUC is a 3-year research and demonstration effort

**PART 1**
- PROJECT INCEPTION
- DRIVING REPORT

**PART 2**
- RECRUIT VOLUNTEERS
- AUTOMATED MILEAGE REPORTING
- EVALUATE/ANALYZE
RUC is a proposed replacement to the state fuel tax.

Not an increase
Not tolling
Not congestion pricing

1,000 miles of fuel costs with RUC:

- **Gas**
  - 2007 Jeep Wrangler 16 MPG: $234
  - 2012 Toyota Tacoma 19 MPG: $199

- **Electricity**
  - 2019 Tesla Model 3 126 MPGe: $97

- **Gas**
  - 2017 Toyota Prius c 46 MPG: $88

Costs:
- $3.62/gallon regular gasoline
- $0.34/kwh electricity
- $0.008/mile road usage charge
Questions?

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