Oregon's Road Usage Charge Program

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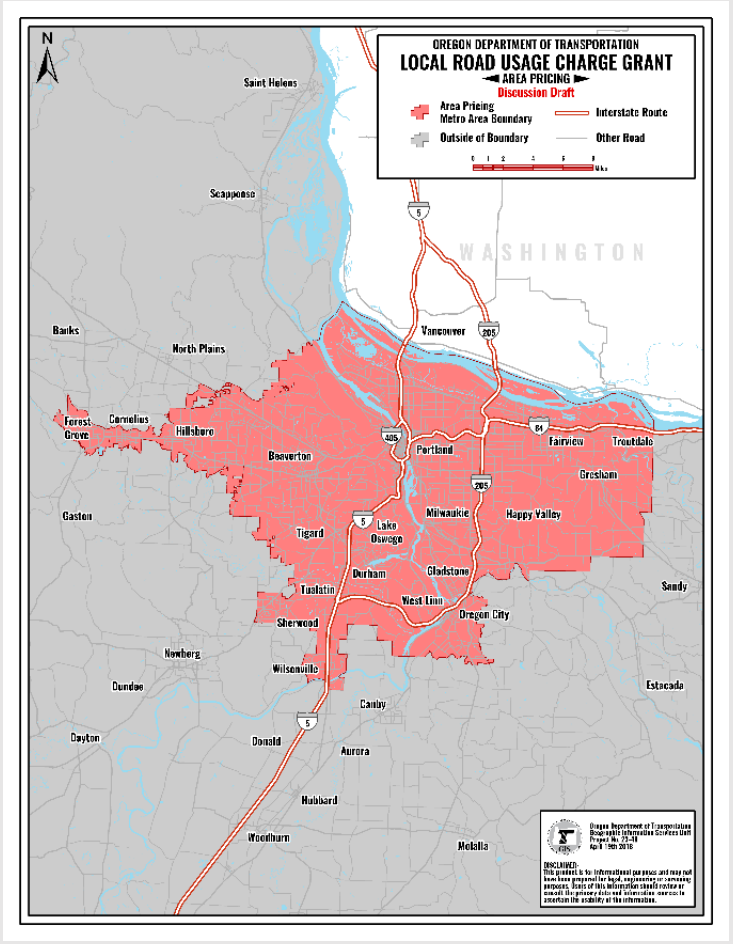
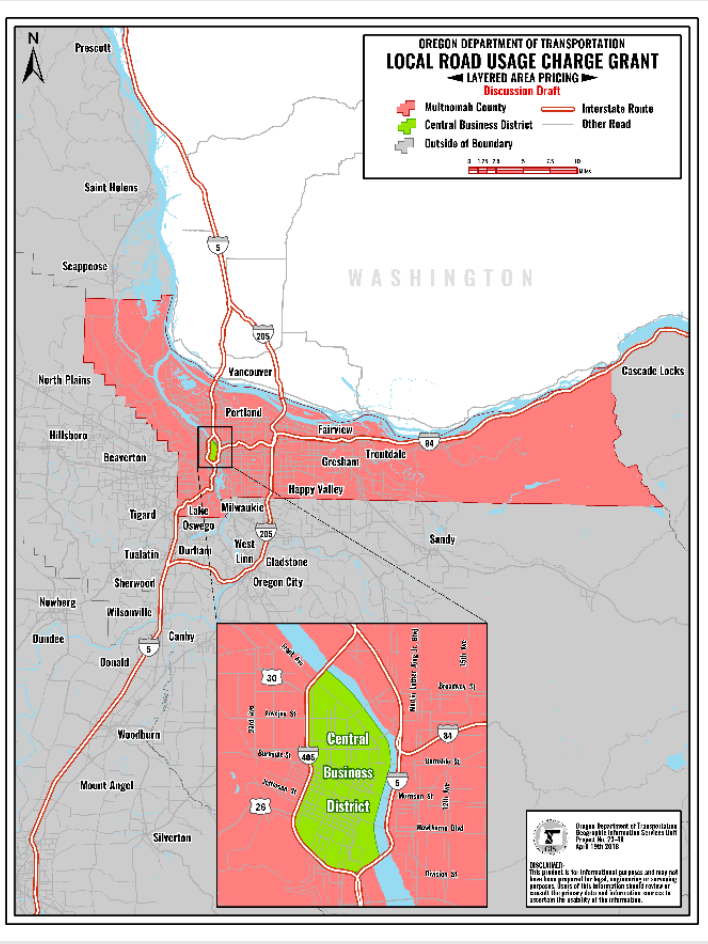
Work in process

- Implementing a manual reporting process
- Refining point of sale enrollment
- Engaging OEMs
- Streamlining processes including certification
- Engaging the public

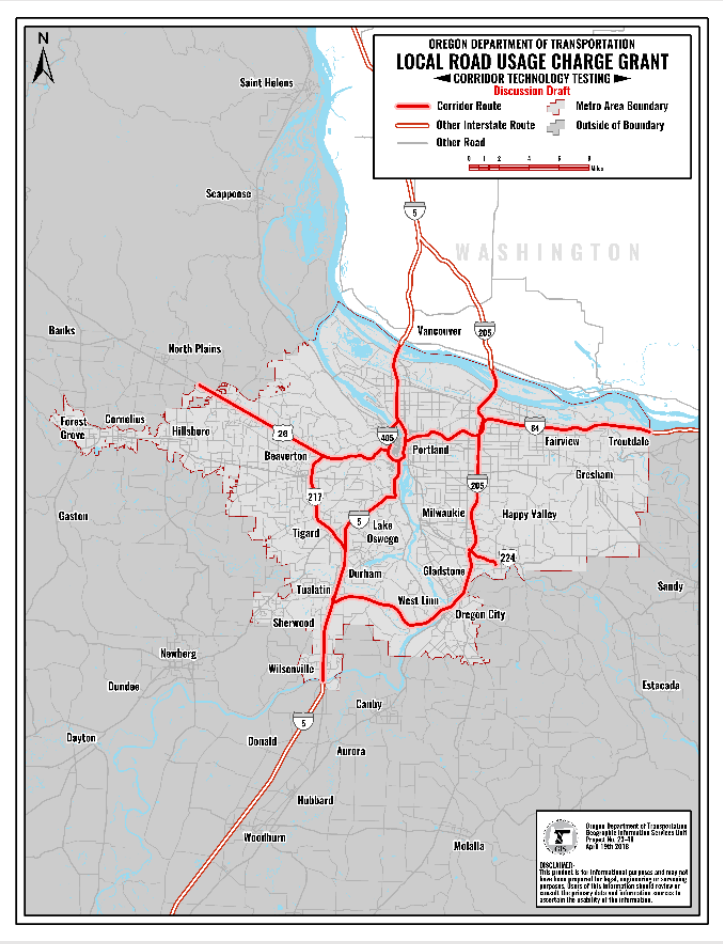
Local area RUC – starts this summer



Static and variable rates



Layered options



Corridor options

CVE-RUC Application

Connected Vehicles

CVE

- Ingests data
- Aggregates data
- Validates
- Applies business logic
- Reports data

ODOT Administration

- Monitoring & reporting
- Resolving issues & inquiries
- Managing participants
- Accounting
- Collecting RUC revenue
- Generating business rules

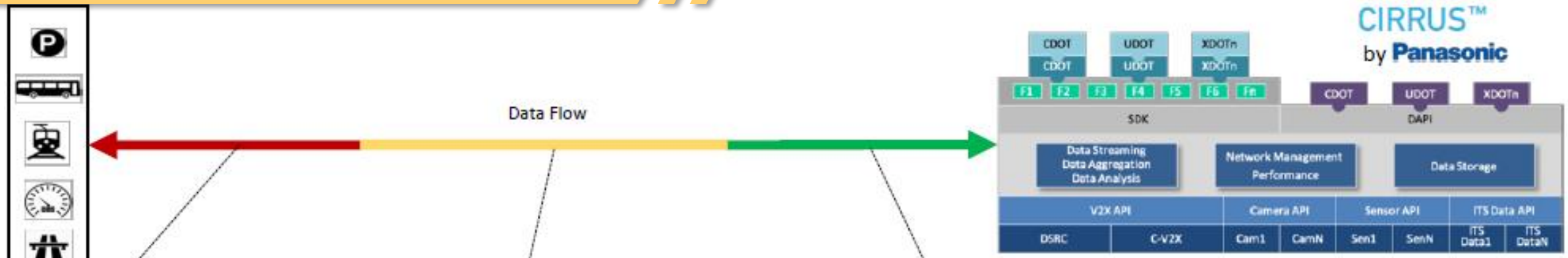
Clearing house

- Collecting data
- Processing reports
- Communicating with business partners

Business Partner

- Setting up & managing accounts
- Managing claims
- Collecting RUC funds
- Reporting RUC revenue & remitting funds

RUC Program Opportunities & Dependencies



Data Elements

Challenge: With a hold on a Federal mandate to access universal V2X data elements, success in maturing the industry relies upon buy-in from progressive State, Municipal, OEM and Logistics stakeholder organizations.

V2X Specification for Tolling & RUC

Opportunity: It will be critical to engage industry leadership and standards organizations to build consensus and support for V2X specification and utilization for managed systems, tolling & RUC.

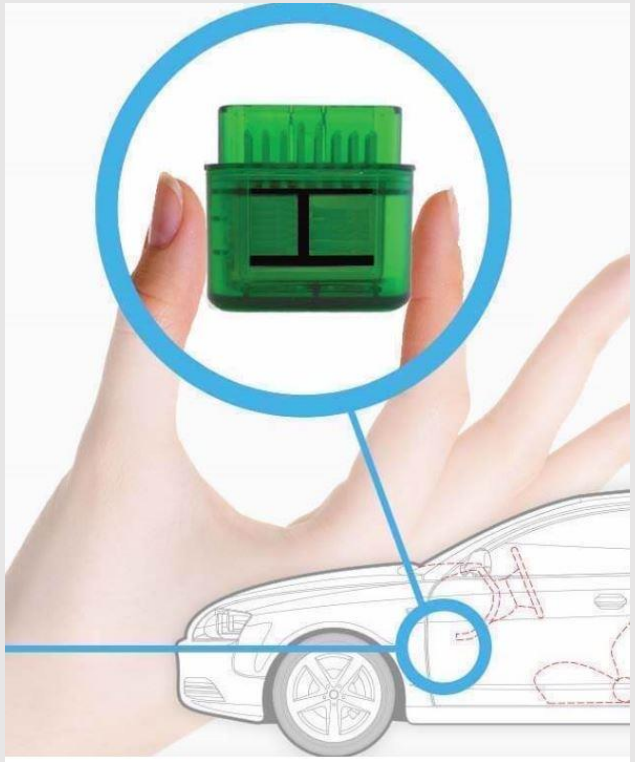
Communication(s) Spectrum

Dependency: It is critical to advance the position that the FCC should protect existing spectrum allocation of 5.9 GHz, mature the licensing capacity for both DSRC and C-V2X, and enable revenue generation system integration to this or complimentary allocation.

Ford
TOYOTA
FedEx Ground
HONDA
Oregon Department of Transportation
IBTTA
TOLLING. MOVING SMARTER.
OMNIAIR CONSORTIUM
SAE INTERNATIONAL
FCC
5GAA Automotive Association

Study industry alignment

- Business partner roles
  - Data collector
  - Transaction Processor
  - Account manager
- Factors
  - Data access
  - Data quality
  - Continuity of access to data
  - Data security
  - Cybersecurity
  - Auditability
- Motivators/de-motivators



RUC West

Tier 1: States implementing RUC Programs

- Oregon
- Utah – went live on 1/1/2020

Tier 2: States testing RUC pilots

- California
- Colorado
- Hawaii
- Washington

RUC West brings together leaders from state transportation organizations to share best practices and research Road Usage Charge

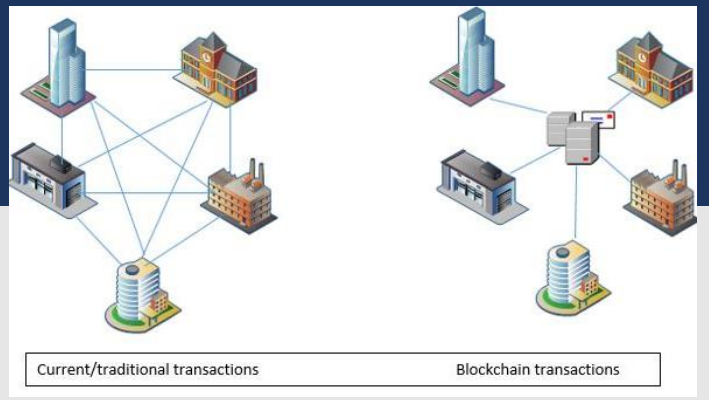
Oregon Department of Transportation

Tier 3: States researching & monitoring RUC

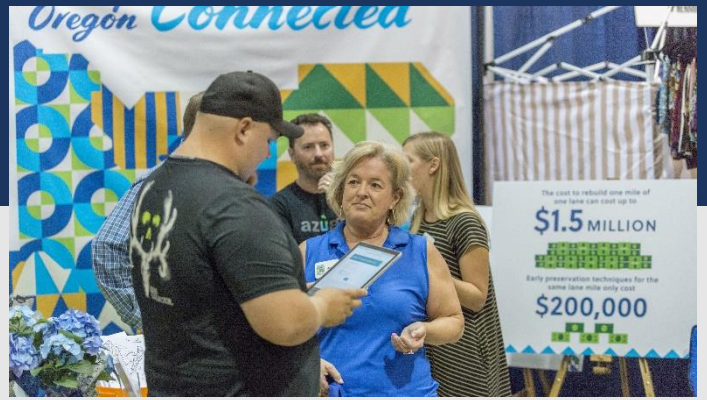
- *Alaska – newest member*
- Arizona
- Idaho
- Montana
- Nebraska
- Nevada
- New Mexico
- North Dakota
- Oklahoma
- Texas
- Wyoming

RUC West grants

Interoperability – testing clearinghouse requirement



Blockchain as a tool to support interoperability – awaiting funding



Forum for sharing lessons learned in areas of technology, data sharing, communications – in development