

I-5 Truck Parking Information Management System

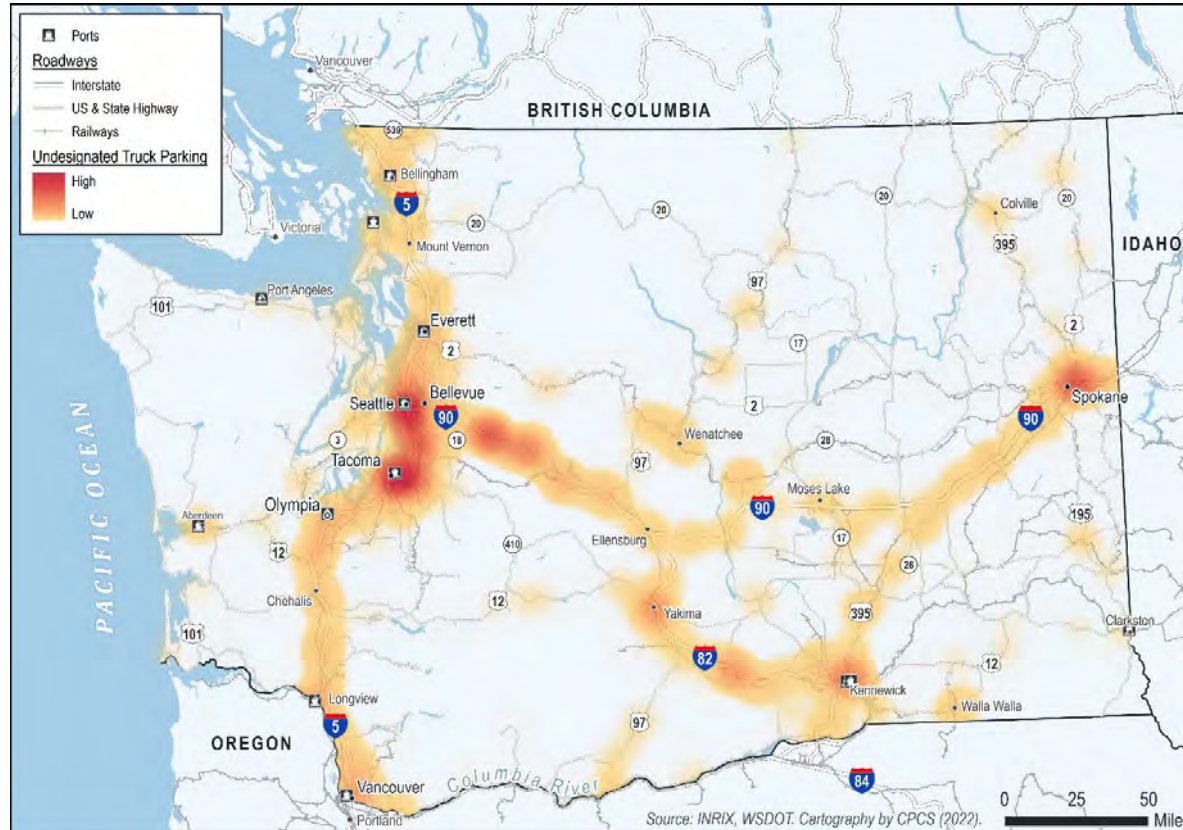
**WASHINGTON STATE TRANSPORTATION
COMMISSION**

Jason Biggs, Rail, Freight and Ports Director

March 13, 2024

Truck parking shortage

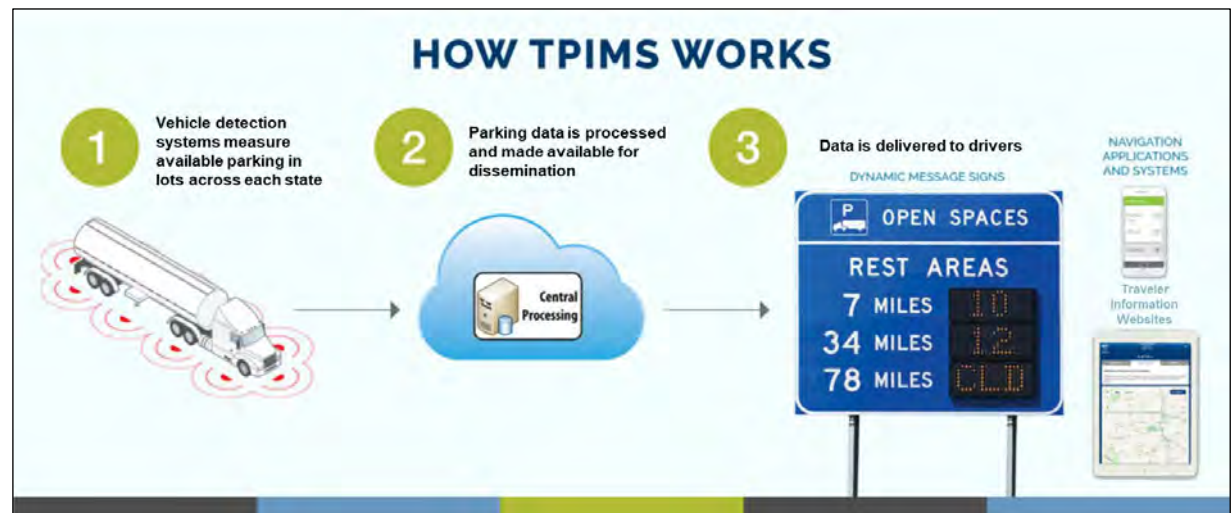
2022 WSDOT State Freight Plan: Truck parking in undesignated areas



- Trucking is critical to keep our freight and economy moving.
- Truck drivers need safe parking to meet federal hours-of-service regulations, basic amenities and staging.
- Truck drivers report difficulties finding parking along the I-5 corridor in Washington, Oregon and California.

I-5 Truck Parking Information Management System (TPIMS)

- Provides truck drivers with real-time parking availability along the I-5 corridor to fill an information gap.
- Technology solution to maximize utilization of existing truck parking capacity by time of day and location.
- Improve safety and efficiency of freight movement on the I-5 corridor.
- WSDOT, Caltrans and ODOT partnership on TPIMS implementation.



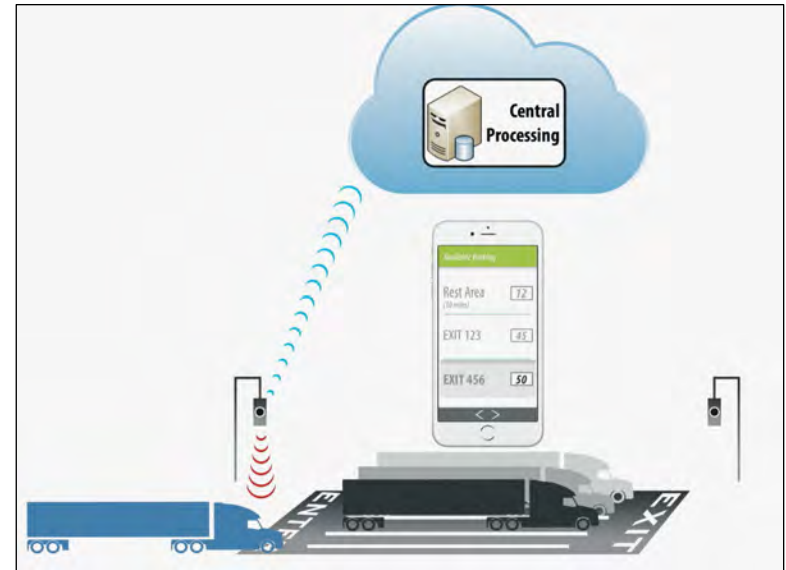
Multi-state coordination

- WSDOT partnered with Caltrans and ODOT to pursue a federal INFRA grant for the I-5 TPIMS project and received an award in January 2024.
- Intend to provide real-time truck parking information for 54 public truck parking facilities along I-5 corridor from Canada to Mexico borders.
- WSDOT will build upon current TPIMS efforts funded by FMCSA to deploy vehicle detection technology at additional sites in Washington.
- The project will leverage lessons learned from the existing I-10 (California to Texas) TPIMS project.



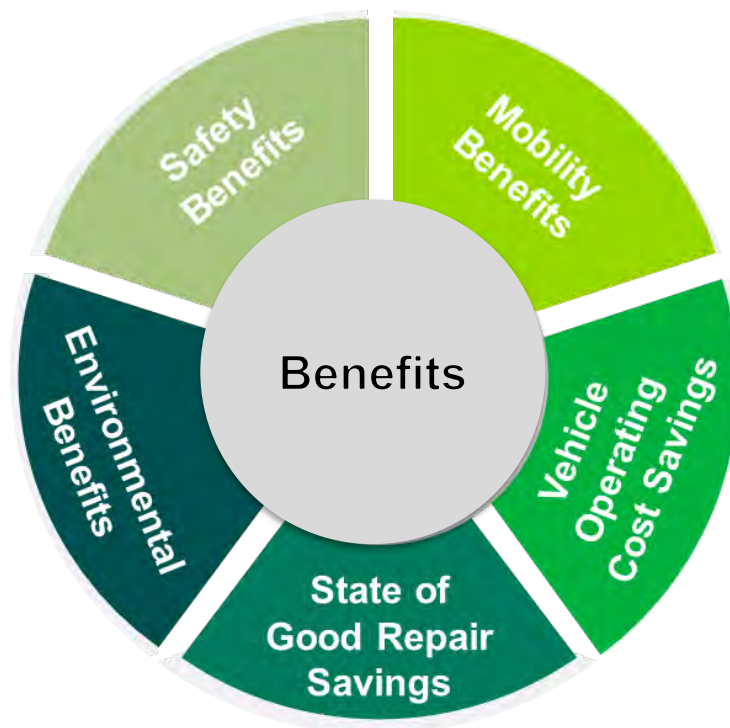
Technology

- Enable each state to choose data collection technologies that best align with existing policies and systems:
 - Radar detection
 - In-ground sensors
 - Video detection
- Standardize data feed (API) to enable consistent data dissemination through multiple channels and easy integration by third-party providers.
- Allow truck drivers to proactively access parking availability when trip planning and on the road:
 - In-cab integration
 - Dynamic parking signs
 - Traveler information websites



Project cost and benefits

- Total project cost is \$20.5 million for three states, with about \$12.3 million received from INFRA funds.
 - INFRA funds account for 60%, and other funding sources cover the remaining 40% of the total cost.
- Estimated to generate significant benefits through crash reductions, fuel and travel time savings, lower emissions, reduced pavement deterioration and reduced parking in undesignated areas.
- Other benefits include increased driver productivity and improved quality of life for truck drivers and nearby communities.



Activities and next steps



Project activities and schedule

- Corridor-wide program management to support coordination between Caltrans, ODOT, and WSDOT.
- Major program activities include planning and management, system design, procurement, construction and installation, and systems integration and testing.
- Project anticipated to be complete and operational by the end of 2027.

Current status and next steps

- Post-award coordination with ODOT and Caltrans
- Project kickoff meeting with FHWA on March 18, 2024
- Establish federal grant agreement with FHWA
- Establish interagency cooperative agreement between partner states

Other statewide truck parking initiatives

(FY 2023-25 biennium legislative proviso)

Truck Parking Implementation Plan | \$400K, FMSIB

FMSIB to develop a plan for specific truck parking solutions, with the intent to increase truck parking capacity.

Status: Scoping

Truck Parking Improvements | \$5.9M, WSDOT

WSDOT to assess cost and project delivery estimates for implementation of truck parking solutions per FMSIB consultation/recommendations.

Status: Legislative consideration and action

Expansion of State Facilities | \$1.2M, WSDOT

WSDOT Capital Facilities to evaluate opportunities for expanding truck parking at 24 safety rest areas and 18 commercial vehicle inspection sites along Interstate 5 and Interstate 90.

Status: Interagency coordination, scoping

Truck Parking Incentive Programs

\$2.5M, WSDOT

WSDOT Innovative Partnerships to coordinate with local governments, ports and private entities in developing recommendations for state assistance, including an analysis of sites adjacent to Interstate 90 near North Bend.

Status: Regional engagement, scoping

SR 906 Truck Parking Expansion

\$150K, WSDOT

WSDOT South Central Region planned construction for applying durable markings.

Status: Scheduled construction, Summer/Fall 2024

Information

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