
Clackamas Connections Integrated Corridor Management (ICM)

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Description

Major highways in Clackamas County are often pushed to their limit during times of peak congestion. This project will develop the concept for operations for corridor-specific Transportation System Management and Operations (TSMO) to improve real-time freeway and arterial travel by developing a Concept of Operations that integrates agencies operationally, institutionally and technologically. This includes TSMO strategies for better traveler information, smarter traffic signals and more effective incident response. Corridors subject to the initial phase of needs analysis will be sections of Interstates 5 and along Interstate 205, Wilsonville Road, Elligsen Road, Stafford Road, 65th Avenue, Boreland Road, Willamette Falls Drive, 82nd Drive/Avenue, McLoughlin Boulevard (99E) and Highway 224 in Clackamas County. The project will be beneficial for freight drivers as they make route decisions to reach destinations in the region and beyond. It will also make use of the region's transit investments, improving operations through integrated Intelligent Transportation Systems (ITS).

Overall Objectives

- Develop a systematic multimodal approach to implementation, complete with performance measures and evaluation, in accordance with multimodal mobility corridor concepts.
- Balance mobility, safety and access considerations.
- Improve multimodal access for corridor users.
- Better manage freight mobility in the corridor.
- Leverage Intelligent Transportation System (ITS) technologies to become even more active and integrated.
- Balance state, regional, and local needs in transportation planning and operations.

Previous Work *(through June 2019)*

- Previous projects to this Multimodal ICM ConOps include the I-84 Multimodal ICM study led by Metro. While the 2010-2020 TSMO Plan includes actions for mobility corridors across the region, Multimodal ICM brings those actions into a more cohesive strategy that is developed through partnership among the corridor operators.
- Clackamas County operates traffic signals for cities across the County and has expanded adaptive signals and is implementing Freight ITS in Wilsonville and the Clackamas industrial area.
- TriMet operates two MAX lines and WES Commuter Rail to the County, plus bus service throughout most of the urbanized County while Wilsonville SMART operates bus service in the southern part of the urban region. Buses are equipped with CAD/AVL systems and communications.
- Clackamas County continues to expand fiber data communication networks adding traffic monitoring cameras, variable message signs, radar traffic sensors and other technologies that create the building blocks for an integrated approach to managing a corridor that goes beyond one facility to look at a collection of multimodal facilities in a travel shed. If an incident occurs, or during a planned event, operators will be able to work in an integrated fashion to manage and mitigate impacts based on Multimodal ICM.

Methodology

Clackamas County will serve as project manager, with support from Metro TSMO Program Manager and a project team from partner agencies. TransPort, the TSMO subcommittee to the Transportation Policy Alternatives Committee (TPAC) as a reviewers of strategies and actions that relate to region-wide capabilities. This project will follow the process for completing an Integrated Corridor Management Concept of Operations, developed in US DOT ITS JPO guidance documents.

The project will complete the following components:

- Stakeholder Participation Plan – identifying the process to generate input and support from a cross section of stakeholders at key points in the concept development
- System Engineering (SE) framework – preparing a structure for systems engineering
- Vision, Goals and Objectives - refining the desired vision, measurable goals and objectives for multimodal ICM corridors.
- Multimodal ICM Operational Alternatives - developing an initial set of operational alternatives to achieve the desired vision, measurable goals and objectives
- Infrastructure Improvements – comparing existing/planned assets with multimodal ICM asset requirements to identify a set of improvements
- Relationships and Procedures – identifying issues and recommending actions for multimodal ICM operations
- Final Concept of Operations – preparing a final document

Major Project Deliverables/ Milestones	
1 st Quarter	• N/A
2 nd Quarter	• Project Scoping
3 rd Quarter	• Draft Project Intergovernmental Agreement (IGA)
4 th Quarter	• Finalize Project IGA and Start Project RFP Process
Ongoing	• This project will continue in FY20/21

Project Lead

- Clackamas County

Project Partners

- Metro, ODOT, TriMet, Wilsonville, Oregon City, West Linn, Gladstone, Lake Oswego, Tualatin, Milwaukie, Happy Valley, Portland, Portland State University – Stakeholders
- TransPort – Cooperate/Collaborate
- FHWA – Cooperate/Collaborate

FY 2019-20 Cost and Funding Sources

Requirements:		Resources:	
Personal Services	\$ 100,781	Clackamas County	\$ \$45,781
		General Fund	
Materials & Services	\$ \$345,000	Metro TSMO (FHWA)	\$ 400,000
TOTAL \$ \$445,781		TOTAL \$ 445,781	

FY 2019-20 Unified Planning Work Program

Full Time Equivalent Staffing:

Regular Full Time FTE: .50