

Vancouver Area



Smart Trek Annual Program Report

At a glance

- ◆ *Annual update on program, accomplishments, and ongoing activities*
- ◆ *The program links ITS technology/infrastructure and improving operation of the transportation system through agency collaboration and planning*

VAST Program Partnership



Regional Collaboration

- ◆ Supports federal requirements to develop and maintain a regional ITS architecture and CMP requirements to collaborate on operational strategies
- ◆ Partnership cooperates on ITS projects, integration, communications infrastructure and operations planning
- ◆ Partner agencies secured \$27m in federal funding over the last 15 years

Operational and Technology Projects through VAST



- ◆ Central signal system upgrades, new signal controllers, signal optimization projects
- ◆ Freeway and arterial detection, cameras, variable message signs
- ◆ Transit signal priority
- ◆ Fiber and network communications needed for connecting ITS devices and infrastructure

2016 VAST Projects

Project	Agency	Summary	Federal	Local
STEVE 2	Clark County	Expansion of Bluetooth travel time data collection and dashboard for operational analysis	\$343k	\$117k
Small Cities ATMS	Battle Ground, Camas, and Washougal	Expand Clark County/WSDOT central signal systems to include the small cities	\$277k	\$95k
Central Signal System Hardware Upgrades	WSDOT	Area-wide field upgrades to old signal controllers and cabinets in readiness for ATMS central signal software shared with County and improved signal coordination and analytics	\$354k	\$121k
Urban Freeways Operational Study	RTC	Analyze and identify near term operational and system management improvements to make the transportation system operate more efficiently and predictably.	\$150k	\$23k
		Total	\$1,124k	\$356k

Successful Partnerships

- ◆ Portal Data Archive <http://portal.its.pdx.edu/home/>
- ◆ Regional Communications Plan
- ◆ Agency Fiber Sharing and Asset Management
- ◆ TSMO Plan Update

Portal: Main Page



PORTAL Home Highways Stations Arterial Arterial Signal Freight Transit Downloads FHWA Data Feedback

PORTAL

PORTAL is the official transportation data archive for the Portland-Vancouver Metropolitan region.

PORTAL provides a centralized, electronic database that facilitates the collection, archiving, and sharing of data and information for public agencies within the region. The data stored in Portal includes 20-second granularity loop detector data from freeways in the Portland-Vancouver metropolitan region, arterial signal data, travel time data, weather data, incident data, VAS/MMS message data, truck volumes, transit data, and arterial signal data. Many of these data feeds are received by PORTAL in real time or on a daily basis and for most, the retrieval and archiving process is fully automated.

PORTAL's multi-modal transportation data archive aims to support Metro's Regional Transportation Plan, the production of regional performance measures, support for regional transportation agencies and their consultants, and researchers at Portland State and elsewhere. Project objectives include producing tools and performance measures useful to local transportation professionals, exploring new and innovative uses of the data, and making the PORTAL data and system more accessible to agency personnel.

PORTAL is currently supported by funding from **Metro**, the **Southwest Washington Regional Transportation Council (RTC)**, and the **Transportation and Research Consortium (TREC)** at **Portland State**. In addition, PORTAL has received funding from the **Federal Highway Administration (FHWA)** and the **National Science Foundation (NSF)**.

Live Traffic Speeds

Map Sites by Slamen Design, under CC BY 3.0. Data by OpenStreetMap, under ODbL.

15 Minute Average Speed Over Last 5 Weekdays

Map Sites by Slamen Design, under CC BY 3.0. Data by OpenStreetMap, under ODbL.

Metro **Oregon Department of Transportation** **RTC** **U.S. Department of Transportation Federal Highway Administration** **Portland State UNIVERSITY**

C-TRAN **TREC** **TRI MET**

[Portland State University | Mason CECS | ITS Lab | Oregon DOT | Federal Highway Administration | National Science Foundation]
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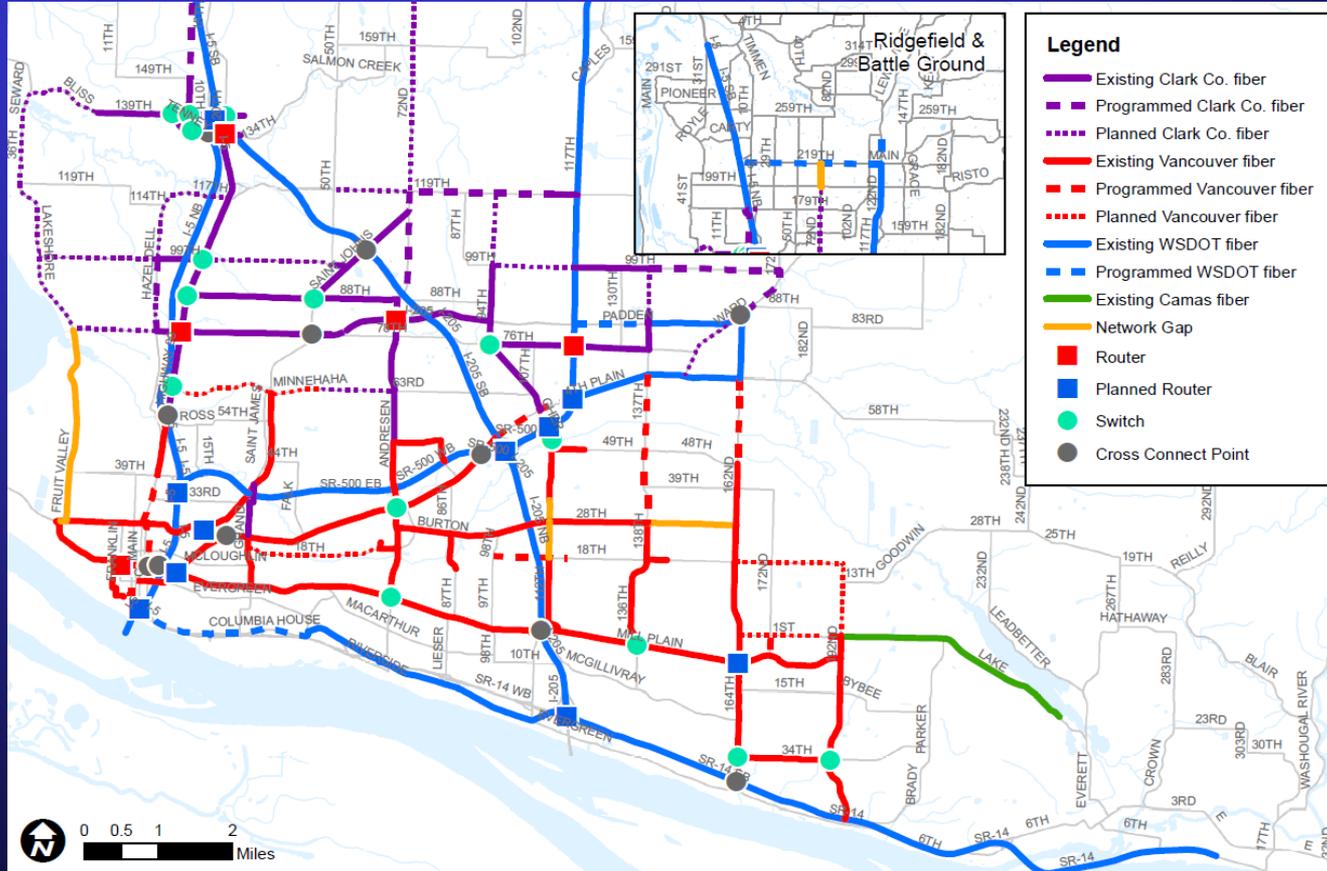
Portal: Clark County Arterials



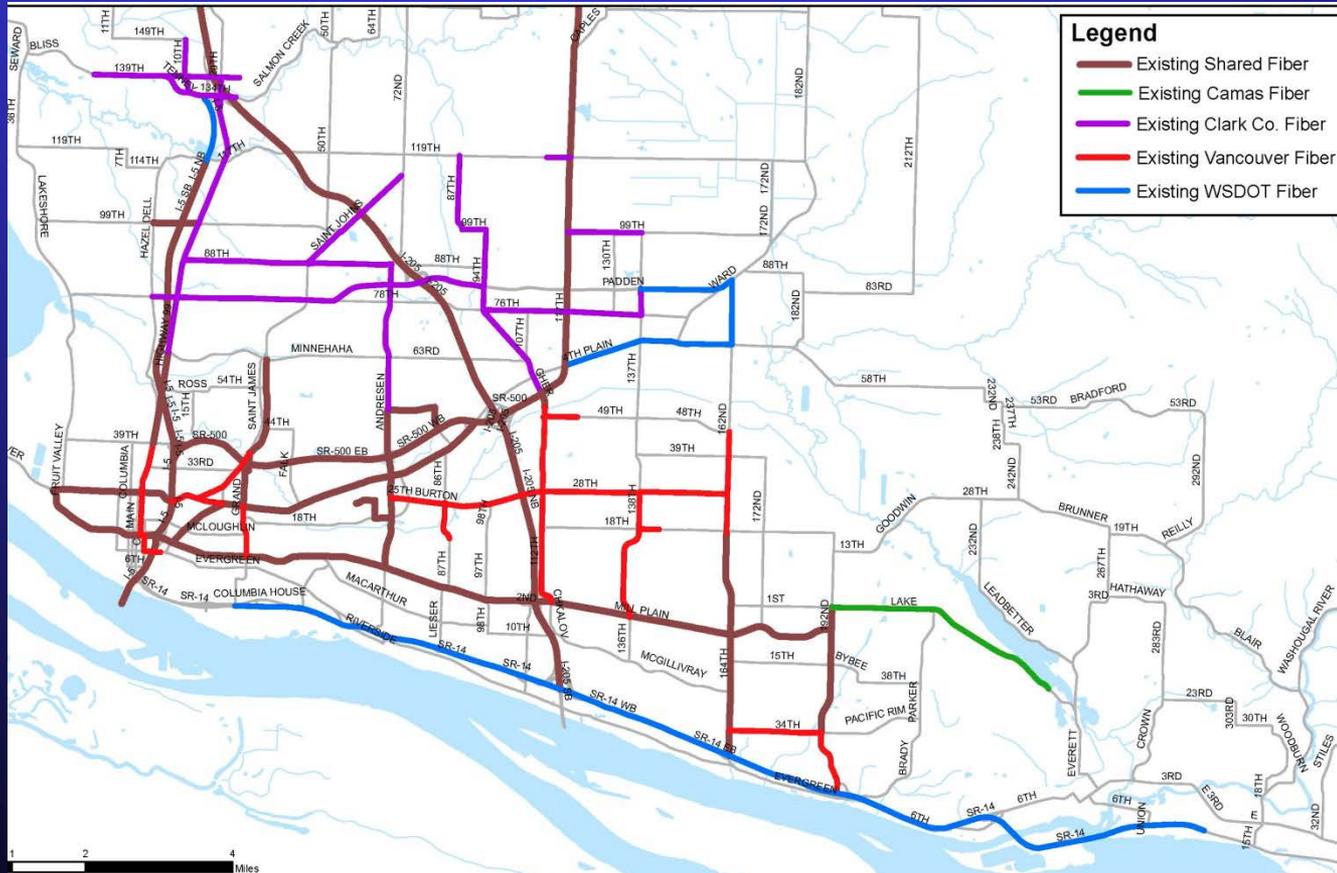
Portal: Highway Corridors



Regional Communications Plan



VAST Agency Fiber Sharing



Shared Fiber Routes

37 fiber permits

Estimated 115 route miles of shared fiber

Estimated regional savings between \$17m – \$21m as related to new fiber construction

TSMO Vision

Develop and implement strategies to promote more efficient and cost-effective use of the existing transportation system, providing increased accessibility, reliability, and safety for people and freight.

Emerging Issues and Trends

Support Emerging Operational Strategies

- ◆ C-TRAN SR-14 BOS demonstration project began on October 23
- ◆ WSDOT programmed funds for ramp meters on SR-500 to I-205 north and Mill Plain to I-205 north
- ◆ Clark County wide ramp meter study completed

Emerging Issues and Trends

Bi-state Coordination

- ◆ Bi-state travel time project on variable message signs and WSDOT's traveler information website
- ◆ HOP Fastpass: regional electronic transit fare collection system between C-TRAN and Tri-Met
- ◆ Clark County use of the bi-state interagency ITS fiber network

Bi-state Travel Time



Washington State Department of Transportation

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Email/text updates

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Traffic

Cameras

Mountain Passes

Traffic Home

Travel Alerts

Weather

Mobile Traffic Site

Vancouver/Portland

Travel Times

Overview Map

Vancouver Area

East Clark County

North Portland

South Portland

Portland Freeway Speed Map

Vancouver Travel Alerts

East Clark County Travel Alerts

Vancouver Weather

State Travel Info

Cross-state Routes

Map Archives

Travel Times

Vancouver Southbound

Travel times as of 2:10 PM Tuesday, October 31, 2017

State Route/Interstate	Route Description	Distance (miles)	Average Travel Time	Current Travel Time
	Clark County Fairgrounds to Delta Park	10.82	11	12
	Clark County Fairgrounds to Portland International Airport Exit	14.32	14	15
	Clark County Fairgrounds to Rose Quarter	15.66	18	20
	Salmon Creek WA to Tualatin OR	34.75	38	40
	Salmon Creek WA to Tualatin OR	28.24	37	35
	Hazel Dell to Fremont Bridge	9.18	11	10
	Hazel Dell to I-405-US26	13.29	16	16
	Mill Plain Vancouver to I-84	6.72	7	8
	Mill Plain to Oregon City	19.11	21	21
	Camas to Rose Quarter	21.83	27	27
	Camas to Rose Quarter	21.15	27	28

What do the colors on the numbers mean?

- Green: Current travel time is less than the average.
- Blue: Current travel time is the same as the average.
- Red: It will take longer to get there than your average commute.

The average HOV time is not shown but the times have been colored to indicate the difference from the average time.

HOP Fastpass



The screenshot shows the HOP Fastpass website interface. At the top left is the HOP logo. The top navigation bar includes links for GET A CARD, REGISTER CARD, RELOAD CARD, CHECK BALANCE, HELP, SIGN IN, and CREATE ACCOUNT. Below this is a sign-in section with input fields for Email Address and Password, and buttons for Sign In, Create Account, and Forgot Password. The main content area features the headline "Your new ticket to ride." followed by a sub-headline: "Hop Fastpass™ is a better way to pay your fare on TriMet, C-TRAN and Portland Streetcar." Below this is a link to "Learn how to use Hop". To the right are two call-to-action buttons: "Register a Hop Card" (with a card icon) and "Reload Your Hop Card" (with a coin icon). The bottom of the page features a cityscape illustration with a green alien character, a Hop card, and a fare station. At the very bottom are the logos for C-TRAN, TRI MET, and PORTLAND STREETCAR.

hop fastpass

GET A CARD REGISTER CARD RELOAD CARD CHECK BALANCE HELP SIGN IN | CREATE ACCOUNT

Email Address Password Sign In Create Account Forgot Password

Your new ticket to ride.

Hop Fastpass™ is a better way to pay your fare on TriMet, C-TRAN and Portland Streetcar.

[Learn how to use Hop](#)

Register a Hop Card

Reload Your Hop Card

C-TRAN TRI MET PORTLAND STREETCAR

Emerging Issues and Trends

Smart Cities

Connected and Autonomous Vehicles

Data integration and sharing

- ◆ Smart Cities Workshop in December

RTC VAST Program Areas

Operations

- ◆ Manage and improve transportation data archive
- ◆ Track and update TSMO Corridors
- ◆ Develop performance measures for operations

ITS

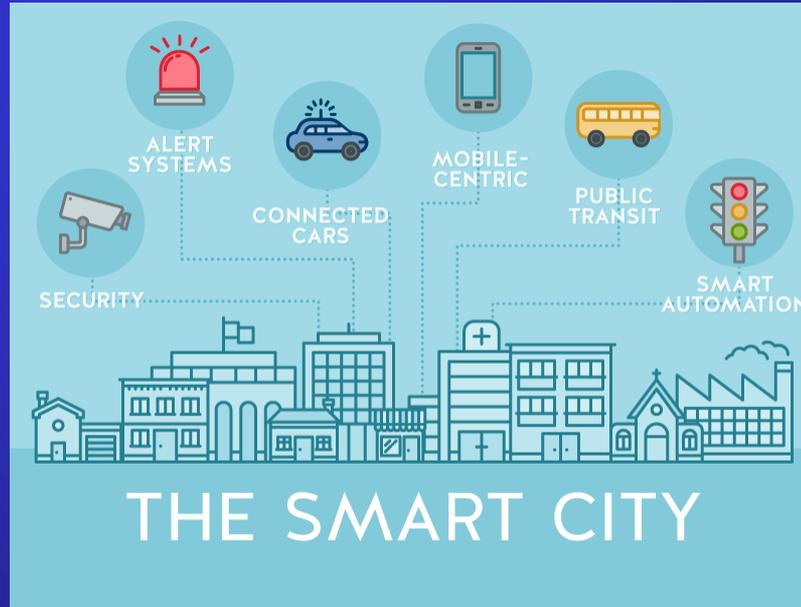
- ◆ Continue and expand fiber sharing opportunities
- ◆ Maintain and update shared asset management system
- ◆ Continue development of agreements fiber, equipment and infrastructure standards

Smart Cities/Intelligent Communities Workshop



December 6 and 7
Fisher's Landing Park and Ride

Day 1: Smart Cities



- ◆ Introduction to Smart Cities/Intelligent Communities
- ◆ Initiatives around the region
- ◆ Vision for the Port of Ridgefield

Day 2: Connected and Autonomous Vehicles



- ◆ Technical issues and infrastructure needs
- ◆ Policy questions and response

Google/Waymo



LeBron



Questions?

