

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*

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
- ◆ Secured \$26m in federal funding since 2001 through agency collaboration

Regional Collaboration (continued)

RTC manages the program:

Different committees work together on various aspects of the program:

- ◆ VAST Steering Committee provides overall operations vision for the region
- ◆ CIC has transportation and IT staff that cooperate on sharing, maintenance and standards for communications and fiber
- ◆ All work together to develop, review, endorse and fund operations and technology projects

2015 VAST Projects

Project	Agency	Summary	CMAQ	Local
WRIGHT	Clark County	Software, hardware upgrades, multagency video sharing	\$685.4k	\$234.6k
SR-14 ATIS	WSDOT	New detection, cameras, and fiber between I-5 and I-205	\$819.5k	\$280.5k
Joint ATMS	WSDOT	Move to single, shared central system with Clark County	\$149.0k	\$51.0k
Mill Plain Signal Upgrades	Vancouver	New CPUs at 15 intersections for improved signal coordination and analytics	\$72.7k	\$24.9k
Mill Plain TSP Phase 2	C-TRAN	Expand TSP on Mill Plain; add TSP to 164 th Avenue	\$195.6k	\$66.9k
		Total	\$1,922.2k	\$657.9k

Successful Partnerships

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

New Portal Features

Agency: C-TRAN ▾

Service Dates: 2016-02-29 to 2016-03-04

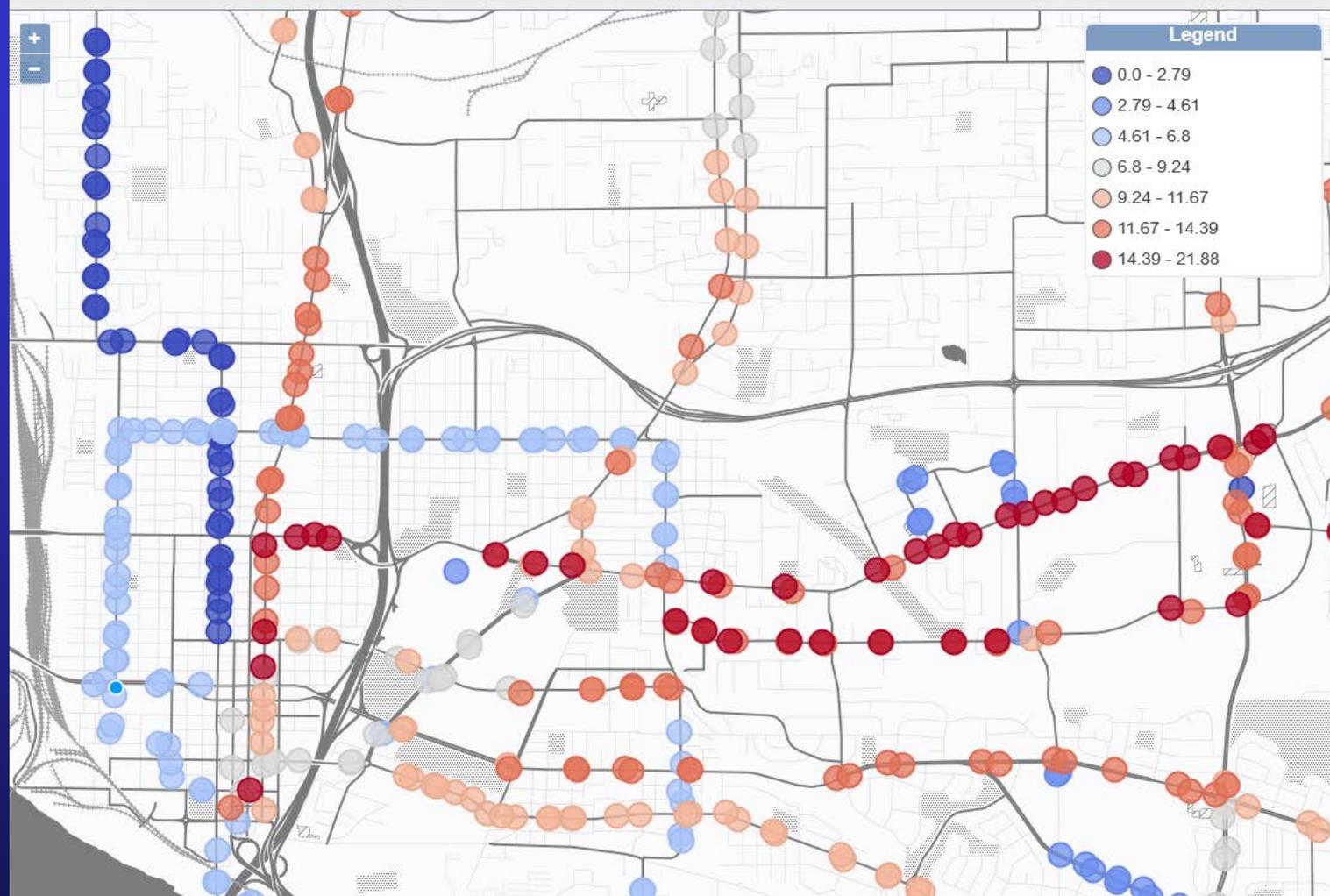
Hours: 06:00 to 17:00

Weekday Saturday Sunday

Update

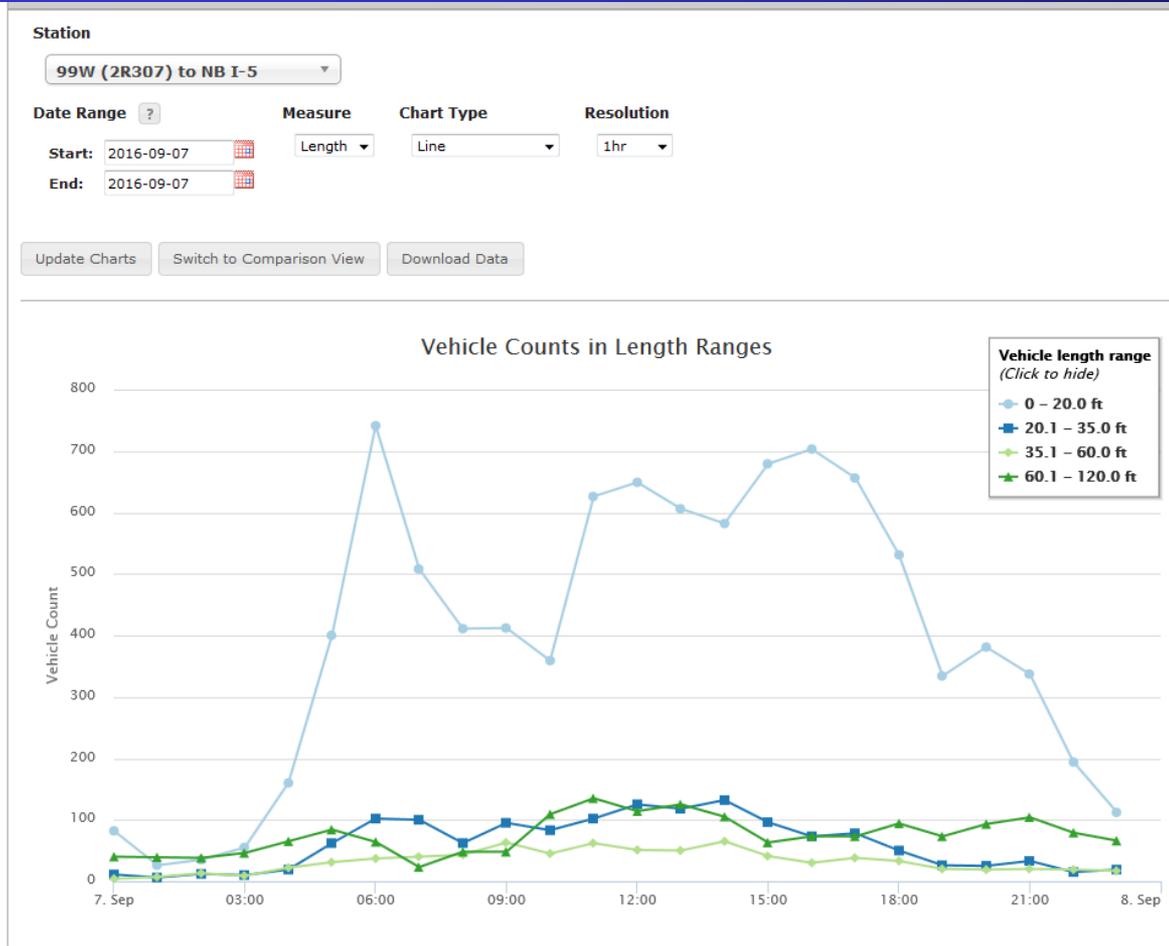
Display: Average Load ▾

◆ C-TRAN Stop Data



New Portal Features

◆ Vehicle Length



Shared ATMS



- ◆ WSDOT, Battle Ground, Camas, Washougal



TSMO Plan Update

- ◆ Guides planning and investment in operational strategies and ITS
- ◆ Emerging Trends
- ◆ Current status of operations and future goals
- ◆ Implementation Plan



Vancouver Area Smart Trek (VAST) Transportation System Management and Operations (TSMO) Plan: 2016 TSMO Plan Update and Implementation Plan



Emerging Issues

- ◆ Infrastructure renewal and asset management
- ◆ Regional Performance Measurement
- ◆ Connected and Autonomous Vehicles

TSMO Plan and CAVs

Need to “future proof” infrastructure to accommodate CAVs as devices and standards become available.

Operations

- ◆ New high powered CPUs to process large amounts of data
- ◆ Communication between vehicle and roadside devices
- ◆ Current controllers use 98% of capacity
- ◆ New ones use 2% for the same operations



CAV Federal Guidelines

Released 9/20/16

- ◆ Guide safe testing
- ◆ Promote deployment
- ◆ Data Sharing
- ◆ Two way communication

Federal Automated Vehicles Policy

*Accelerating the Next Revolution
In Roadway Safety*



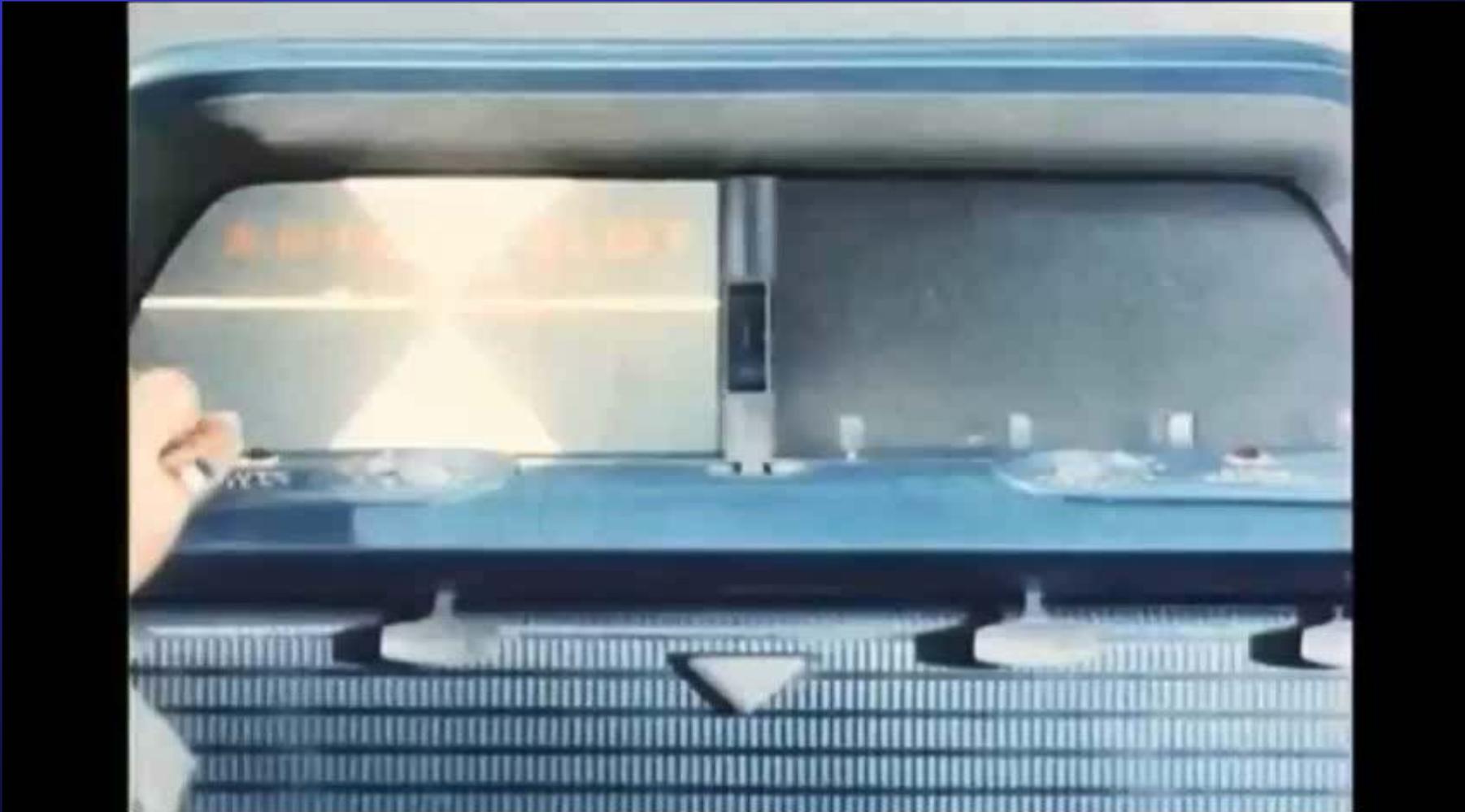
September 2016



U.S. Department
of Transportation



Future of CAVs: GM 1956



Future of CAVs: FHWA 2016



Questions?