Regional Models of Cooperation

Congestion Management

Efficiency through technology and collaboration





2

U.S. Department of Transportation Federal Transit Administration U.S. Department of Transportation Federal Highway Administration

URN LEF

Purpose & Background

Promote cooperation and coordination across MPO and State boundaries to develop a regional approach to transportation planning

Supported by:

- Planning Emphasis Area (PEA) Fiscal Year 2016
- Every Day Counts (EDC-3)



Why is Enhanced Coordination Needed?





Why is Enhanced Coordination Needed?



Regional Models of Cooperation: Implementation Activities

- 1. Webinar Series
- 2. Peer Exchange Workshops
- 3. Handbook



Regional Models of Cooperation Webinar Series

- 1. Regional Models of Cooperation Overview (Jan 27, 2015)
- 2. Air Quality Planning (August 25, 2015)
- 3. Regional Transit Planning (October 16, 2015)
- 4. Safety Planning (December 10, 2015)
- 5. Congestion Management (February 11, 2016)
- 6. Data Sharing, Systems, and Tools (April 14, 2016)
- 7. Joint Planning Products (June 9, 2016)
- 8. New Technologies and Business Models (August 11, 2016)
- 9. Multimodal Planning Cooperation Across Jurisdictions (October 13, 2016)
- 10. Freight Planning (December 8, 2016)



Today's Speakers

• Wayne Berman

FHWA Office of Transportation Management

• Joe Bovenzi

Genesee Transportation Council

Zoe Neaderland

Office of Transportation Safety & Congestion Management, DVRPC

• Alan Lehto

Planning & Policy, TriMet





Collaboration and Coordination: An Essential Element of Planning for Operations



Wayne Berman FHWA, Office of Operation



Context for Planning for Operations



U.S. Department of Transportation Federal Highway Administration Federal Transit Administration

Our planning process tends to focus most on planning roads, bridges, transit and bicycle/pedestrian infrastructure...

Yet, how well the transportation system is managed and operated on a day-to-day basis is a critical issue the public notices:

- Major traffic incidents
- Severe weather conditions
- Construction blocking lanes
- A special event tying up traffic



What is Transportation Systems Management & Operations?

US. Department of Transportation Federal Highway Administration Federal Transit Administration

- Maximizing the performance of the transportation system roads, bridges, and rails – without adding new capital infrastructure.
- Utilizing innovative approaches to reduce delay and improve reliability:
 - Technology to monitor, assess, and adapt to changing travel conditions.
 - Real-time information sharing.
 - Collaboration and coordination across jurisdictional boundaries.
- Is Planned For
 - Through Regional

Collaboration and Coordination



Management & Operations Involves...



US. Department of Transportation Federal Highway Administration Federal Transit Administration

Managing travel demand – optimizing when (time of day), how (ridesharing, transit, bicycling, walking), and where people and goods travel (providing information on preferred routes).

Managing traffic and transit operations – improving reliability and reducing unnecessary delays.

Strategy Examples

- Traffic incident management
- Traffic signal coordination
- Transit signal priority
- Freight management
- Work zone management
- Special event management

- Congestion pricing
- Road weather management
- Managed lanes
- Ridesharing programs
- Parking management
- Traveler information

How to Plan for Operations



- Move from a "project based" focus to an objectives-driven "outcomes-based" approach.
- Coordinate across jurisdictional boundaries to integrate systems, modes, and technology solutions.
- Focus on maximizing existing systems and managing demand before capacity solutions.



Realizing the Tangible Benefits of Cooperation: "What's in it for me?"

- A tangible benefit is an outcome or effect from a collaborative activity that supports an agency goal or objective.
- Agencies benefit in tangible ways from a range of collaborative activities in support of Planning for Operations (information sharing to joint operations)

Tangible benefits of Cooperation Mean:



- Following the Money: collaborative pursuit of funding
- Getting Smart: sharing expertise and joint learning
- **Speaking With One Voice**: coordinating communications and giving a consistent message
- **Being On the Same Page**: developing common procedures, protocols, and plans
- Measuring Up: jointly measuring performance

Tangible benefits of Cooperation Mean:



- You Ought to Know: sharing transportation information
- Can You Hear Me Now?: developing tools
 for efficient communications
- Sharing the Wealth: sharing resources
- Building Economies of Scale: consolidating services
- All Together Now: performing joint operations

Case Examples: Follow the Money



US.Department of Transportation Federal Highway Administration Federal Transit Administration

- Agencies that collaborate on funding applications enjoy increased access to outside funding.
 - Denver's Traffic Signal System Improvement
 Program (TSSIP) participants share \$3.9M
 - Vancouver Area Smart Trek (VAST) "bundle" projects for joint application

"By forming together, we were able to carve out a pool of funding to be spent on traffic signal activities that wouldn't otherwise compete well against construction projects such as intersection improvements."

-Local traffic engineer participating in Denver TSSIP

Case Examples: Getting Smart



- Agencies share knowledge to avoid "re-inventing the wheel" – saving staff time and money
 - NITTEC Incident Management Subcommittee members pool expertise to develop training program
 - Maryland SHA assisted Montgomery County in training arterial patrol staff and provided specs for vehicles
 - AZTech agencies use partners for advice on developing TMCs and purchasing wireless technology

Case Examples You Ought To Know



- Agencies that share information in realtime can better inform travelers and prepare their own facilities.
 - High Plains Corridor Coalition states share information on road conditions to provide travelers early warning

Case Examples: Sharing the Wealth



- By sharing assets, agencies save money and boost their operations capabilities.
 - Vancouver VAST agencies share excess fiber assets as part of an inter-local agreement
 - High Plains Corridor Coalition states sharing cost of developing web-based traveler information network through Transportation Pooled Fund Study





- Agencies benefit by consolidating services through reduced operating costs and enhanced services.
 - NITTEC provides member agencies with 24/7 traffic operations center
 - AZTech partners benefit from a regional emergency response team operated by Maricopa County DOT

U.S. DOT Planning for Operations Resources: **The Collaborative Foundation**

Federal Highway Administration Federal Transit Administration



U.S. DOT Planning for Operations Resources: Supporting the Objectives-Driven, Performance-Based Approach

2

US.Department of Transportation Federal Highway Administration Federal Transit Administration

Regional Concept for Transportation Operations Fosters Planning For Operations in the Tucson Metropolitan Area Operator Focused Planning for Operations

The Fusion metropolitan region embinised on developing a regional concept for transportation operations (RCT0) in 2005 as part of a Federal Highway Administration demonstration initiative to advance regional collaboration for operations. The RCT0 is a management tool that operators and planners use to strategically plan for improving operations in their region. Though the development of the RCT0, the Pima Association of Governments (IAG) ked a group of operations participants in identifying specific objectives and performance measures for arterial management, traveler information, and work zone management. These objectives guided Tuccom's selection of management and operations strategies and the approaches for implementation. The RCT0 group identified specific operations projects to be included in the RFG transportation improvement program (TIP) and Mundel Mongh half are transportation sels tax, which passed in 2006.

Introduction

In 2005, the Federal Highway Administration (FHW, launched a demonstration initiative to encourage regiin the U.S. to increase multi-agency collaboration thr the development and implementation of a regional cofor transportation operations (RCTO). An RCTO is a management tool that provides a strategic framework to guide collaborative efforts to improve transportation system performance through management and operati

Regional Transportation Planning and Investment Decisionmaking Regional Transportation Regional Market Regional Market Regional Market Regional Congest Regiona

Applying Analysis Tools in Planning for Operations Advancing Metropolitan Planning for Operations

> An Objectives-Driven, Performance-Based Approach

Advancing Metropolitan Planning for Operations

The Building Blocks of a Model Transportation Plan Incorporating Operations

A Desk Reference

ederal Highway Administration ederal Transit Administration





US. Department of Transportation Federal Highway Administration Federal Transit Administration

FOR MORE INFORMATION:

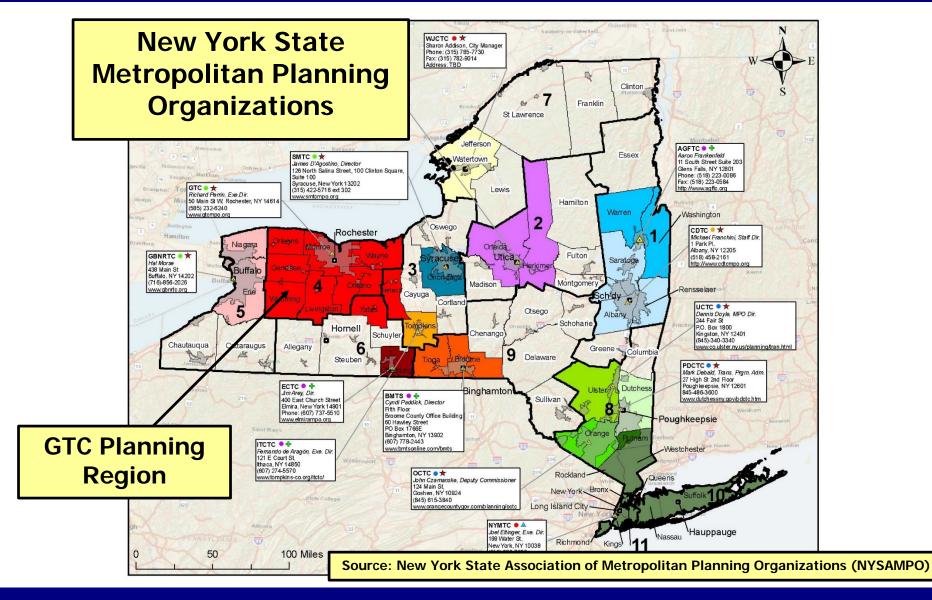
Wayne Berman FHWA, Office of Operations 202-366-4069 wayne.berman@dot.gov

Congestion Management Coordination in the Genesee-Finger Lakes Region

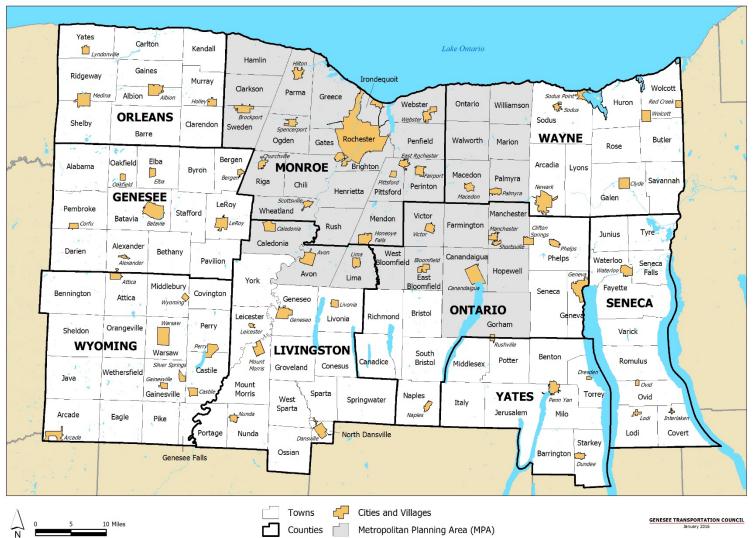


Joseph M. Bovenzi, AICP Regional Models of Cooperation in Congestion Management February 11, 2016

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GTC Nine-County Planning Region and Rochester Metropolitan Planning Area

Transportation System Management and Operations Program

- GTC emphasizes TSMO as a primary means of advancing its Goals & Objectives
- Activities
 - Long Range Transportation Plan
 - TSMO/ITS Strategic Plan
 - Transportation Management Committee
 - Regional ITS Architecture
 - Congestion Management Process
 - Transportation Improvement Program

GTC Approach to TSMO: Three Key TSMO Elements in the Long Range Transportation Plan



> Technology

Demand



Coordination: Greater Rochester ITS Strategic Plan

- Identifies a vision for TSMO investments
 - Multi-agency
 Multi-jurisdictional
 Multi-modal



- Objectives
 - Rationale for TSMO investments ("Why?")
 Roles & responsibilities ("Who?")
 Operational strategies ("What?" and "How?")
 Ten-year timeframe ("When?")

Coordination

- Coordination Goal: Facilitate interagency coordination and collaboration
- > Transportation Management Committee (TMC)
 - Member Agencies
 - Transportation Departments
 - Transit Authority
 - Law Enforcement

Information Sharing and Discussion

- Construction
- Incident Management
- Policy/Programming



Coordination: Traffic Incident Management

> 2015 Traffic Incident Management (TIM) Symposium

- **Emphasis on Agency Roles & Responsibilities**
 - Build awareness of agency functions among responders

Session Topics

- First Responder Safety
- Crash Reconstruction
- HAZMAT Response
- Extrication
- NYS Move-Over Law
- Large Incident Review



http://www.twcnews.com/nys/rochester/news/2015/10/17/genesee-finger-lakes-traffic-incident-management-symposium.html

Coordination: NYS MPO Collaboration

New York State Association of Metropolitan Planning Organizations (NYSAMPO)

Eight "Working Groups"

- Bicycle/Pedestrian
- Climate Change
- Freight
- GIS
- Modeling
- Safety
- TSMO
- Transit
- Website: nysmpos.org



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Technology: ITS

- Goal: Integrate ITS into the planning process
 - Enables coordination activities
 - Reduces infrastructure expansion needs
- Identify agency capabilities
 - Emphasize functions over specific technologies
- Role of ITS in "Complete Streets"
 - Impacts of Connected/ Autonomous Vehicles





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Demand: User Expectations

Provide accurate and up-to-date information on options for using the transportation system

□ 511NY

Greater Rochester Regional Commuter Choice Program



Municipal planning initiatives







Congestion Management Process (CMP)

- We cannot <u>build</u> our way out of congestion, but we can <u>operate</u> our way out
- Congestion Typologies Recurring capacity related Planned event-related Non-recurring incident-related CMP Performance Measures □ Travel Time Index Transit on-time performance Median incident clearance time Median transit load factor

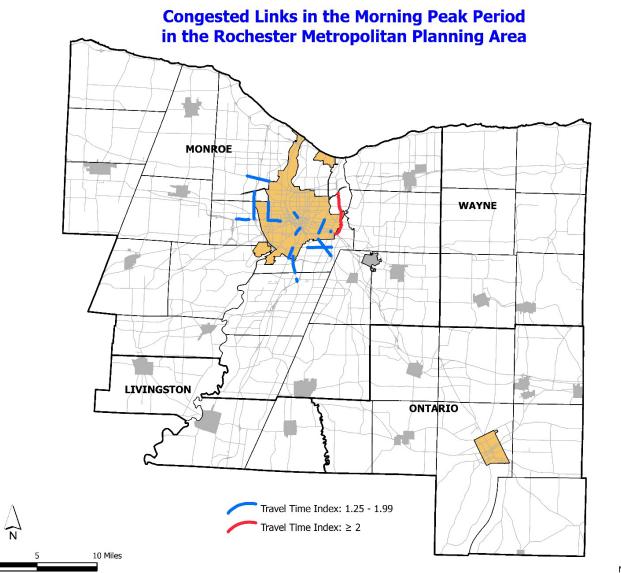


Congestion Management Process (CMP)

- Congestion Scale
 - Classify and illustrate congested road segments

Congestion Scale for Recurring Capacity Related Delay					
Categories:	Delay			Excess Delay	
Sub- Categories:	Minimal Congestion	Minor Congestion	Moderate Congestion	Congestion	Severe Congestion
Color Code:					
Travel Time Index (TTI):	<1.00	1.01-1.14	1.15-1.24	1.25-1.99	2.00>

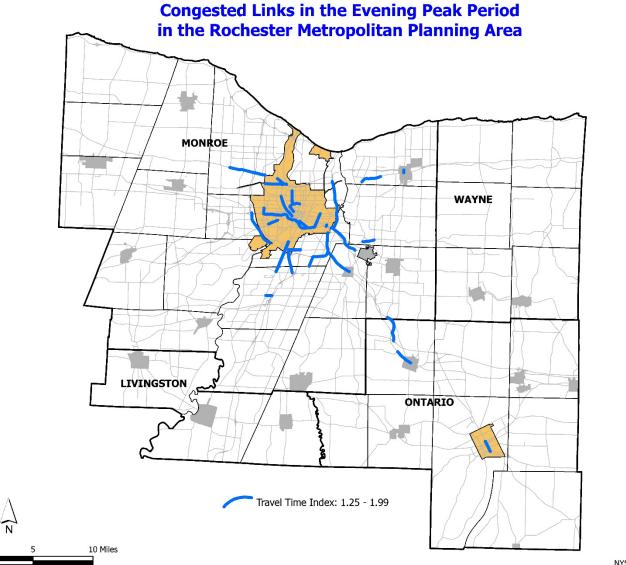
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Sources: INRIX © 2015 NYS GIS Program Office, 2015

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Travel Time Data Program > INRIX Analytics □ May 2013 □ Renewed May 2015 Data Uses □ Performance Measurement Congestion **Management Process** Special Analyses





TIP Project Evaluation Criteria

- Mainstream TSMO projects into the investment decision-making process
- Common criteria
 - □ All projects
 - □ 14 criteria (0 100 pts.)
- Mode-specific criteria



- □ Projects classified into one of five modes
 - Highway & Bridge
 - Bicycle & Pedestrian
 - TSMO

- Public Transportation
- Goods Movement
- □ Four or five criteria for each mode (0 30 pts.)

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TIP Project Evaluation Criteria

- Transportation System Management and Operations
 - Reduce travel times on major roadways (0 – 10 pts.)
 - Reduce incident clearance times (0 – 10 pts.)
 - Increase the productivity of regional transportation agencies/providers (0 – 5 pts.)



 Support or advance existing and/or proposed ITS elements (0 – 5 pts.)

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The Metropolitan Planning Organization for the Genesee-Finger Lakes Region

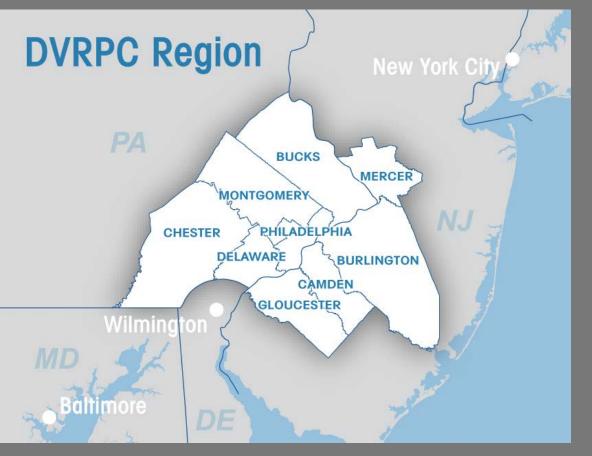




Cooperation & Congestion Management

FHWA Regional Models of Cooperation Webinar February 11, 2016

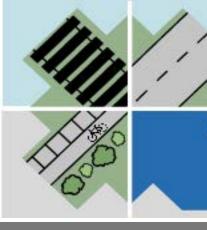
Delaware Valley Region



- Bi-state nine-county region of 352 municipalities
- Population:
 5.7 million
- Employment:
 2.6 million

Summary of DVRPC's CMP

- Strengthens the connection between the Long-Range Plan and the TIP
- Performs analysis of the regional transportation network, identifies congested corridors, and develops sets of multimodal strategies for each congested subcorridor
- Where SOV capacity is being considered, coordinate on strategies and supplemental projects tables
- DVRPC Board adopted 4th edition in October, 2015



Advisors

- DVRPC's Board is the ultimate adopting body. It includes both states, nine counties, and four cities
- CMP Advisory Committee includes technical representatives for all Board members, FHWA and FTA, transit agencies, transportation management associations (TMAs), other DVRPC committees such as the Goods Movement Task Force, surrounding and interested MPOs, and others

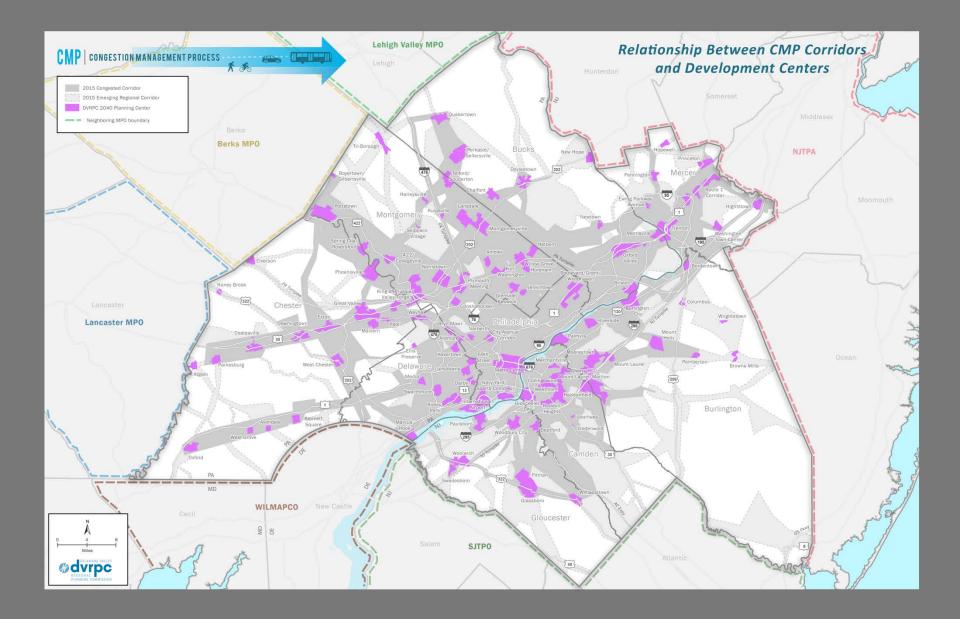
Types of CMP-Related Cooperation

- Launching a CMP or update cycle
- Implementing and maintaining momentum
- Participating in efforts that flow from the CMP
- Going beyond the CMP
 - Internal partners
 - Public and policy-makers
 - Professional field

Launching the CMP

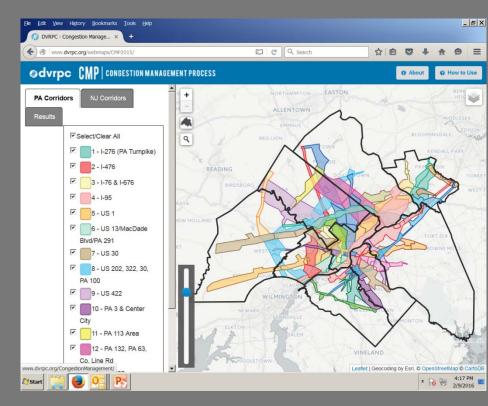
Building trust and a shared base of knowledge are key

- Starting was the hardest part
- Flow from the Long-Range Plan regional vision and back into Plan updates
- Participation of trusted CMP voices, such as FHWA
- Think through <u>which</u> agencies and <u>who</u> will need to have been engaged for CMP to succeed
- Invite surrounding MPOs and agencies to be on the email list for communication



Advisory Committee Member Comment

"...I reflected on the technical materials you generate to facilitate the process—web maps & maps, strategy definitions, decisionmaking processes, and more. These materials form the basis for making collective, collaborative decisions, as well as a record of them. As communication devices, they are one of the keys to the CMP's success...."



Screenshot of interactive online web map

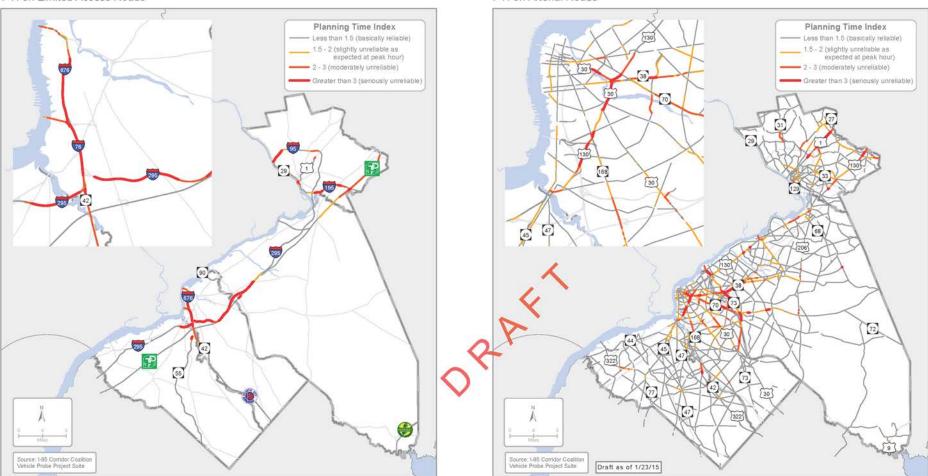
CMP 2014: Planning Time Index (PTI) in New Jersey (5-6 PM, all weekdays in 2013)

DRAFT

Goal: Increase Accessibility & Mobility

PTI on Limited Access Roads





A PTI of 1.5 means that for a trip that takes 20 minutes under freeflow conditions, a traveler should budget a total of 30 minutes to ensure on-time arrival 95 percent of the time. It is normal and appropriate for PTI to increase somewhat at peak hours. PTI = (95th Percentile Travel Time) / (Free-Flow Travel Time*)

*Free-flow values in this equation were determined using the reference speeds received by the VPP from their data providers for each road segment. Reference speeds represent the 85th percentile observed speed for all time periods, with a maximum value of 85 mph.

For more information, see https://vpp.ritis.org/suite/fad/#/performance-measures.

Archived operations data on arterial roads poses challenges. Experts are exploring how to account for intersections, driveways, and other characteristics. Data quality decreases as volume decreases. DVRPC may focus on arterials with more than one lane per direction and/or AADT >= 15,000



Implementing and Maintaining Momentum

Keep building bridges

- Outreach meetings to various groups within DOTs
- Outreach meetings to help transit, TMA, and other supplemental project groups see why and how
- Federal requirements guide next steps
 - Supplemental projects
 - Reporting requirements

Sample of Implementation Pieces

Is the problem in a



Diagram of the CMP process, three publications, and example of a checklist from the CMP Procedures, all available at DVRPC.org

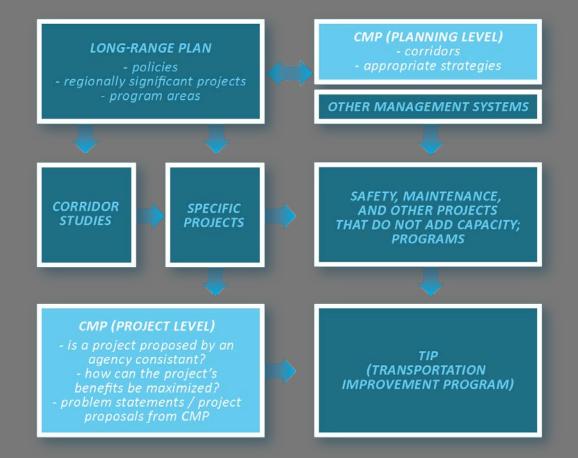




- There are a lot of related efforts to join
 - Congestion management at DOTs, operations planning, transportation security planning, transit
- Getting from medium-term CMP planning to projects on the ground requires participation in a lot of other processes

- problem statement development, TIP

How the CMP Fits with Other Efforts



Beyond the CMP

- Internal partners (safety, operations, modeling, transit, corridor studies, land use, Plan, TIP)
- Public and policy-makers (<u>how</u> to communicate is as important as what; includes interactive web maps and targeted newsletters)
- Professional field (help an adjacent MPO, participate in FHWA efforts and I-95 Corridor Coalition, develop Partners Using Archived Operations Data for Planning)

Center of Elevator Speech Brochure

Tell a story

Managing congestion is hard in the 21" century - insufficient funding and ever-increasing traffic pose a challenge to providing an efficient transportation system for all. Fortunately, we now have a new generation of analytic tools, enhanced strategies, and better cooperation among organizations. Here is one of the many stories that illustrate the new era in managing congestion.

Non-Recurring Con

The Story of One Corridor: -295 in the Vicinity of I-76 and NJ 42

ver 100,000 vehicles a day and is komewhat congested on an average morning, verify govery wrong. Investments that improve reliability would help in this situation



Justify and educate

Benefit to Cost (B/C) ratios range betw 4 and 50 per dollar avvested. Reductions in emissions: 3 to 16% \$147,400 saved for road users during pea periods due to reduced time in traffic. Non-Recurring Congestion HUDOT's Safety Service Patrol (SSP) helps educe congestion on I-295 by getting trashes, broken-down cars, and debris off the

travel way quickly. Statewide the 52 SSP trucks cover 225 miles of highway to pr Benefit to Cost (B/C) ratio of 33 to 1 Upwards of 100.000 assists per year wither

a budget of approximately \$6 million Help for emergency responders at incidents
 DVRPC's Transportation Operations Master Plan recommends increasing to allday coverage on 1-295

Effective, Low-Cost Strategies Current and Potential Use on I-295

Traffic signal optimization reduces traffic on

RecurringCongestion

One source of more strategies is: //ops ffiwa dot gov/travel/plan2op htm

Travel time

Educate

Reliability

Educate

A Few Other DVRPC Examples

- Incident Management Task Forces
- Central Jersey Transportation Forum (coordination of transportation and land use planning)
- Greater Philadelphia Food System Plan
- Equity Through Access (Coordinated Human Services Transportation Plan)
- Building the Circuit (Regional Trails Program)

Reflections on Cooperation

- Some reasons to cooperate
 - Helps with doing best possible, most effective work
 - Building a shared history and trust makes it easier to listen to each other, and builds a network for related work
 - Enhances a positive reputation to start future projects
- Think about where you want to end up, but advance in manageable steps so as to not get overwhelmed





For more information, see www.dvrpc.org/CongestionManagement or contact us:

Zoe Neaderland, Manager Office of Transportation Safety & Congestion Management (215) 238-2839 ZNeaderland@dvrpc.org

Regional Collaboration on Congestion Management

CONNECTING LAND USE AND TRANSPORTATION IN THE PORTLAND, OREGON METROPOLITAN REGION



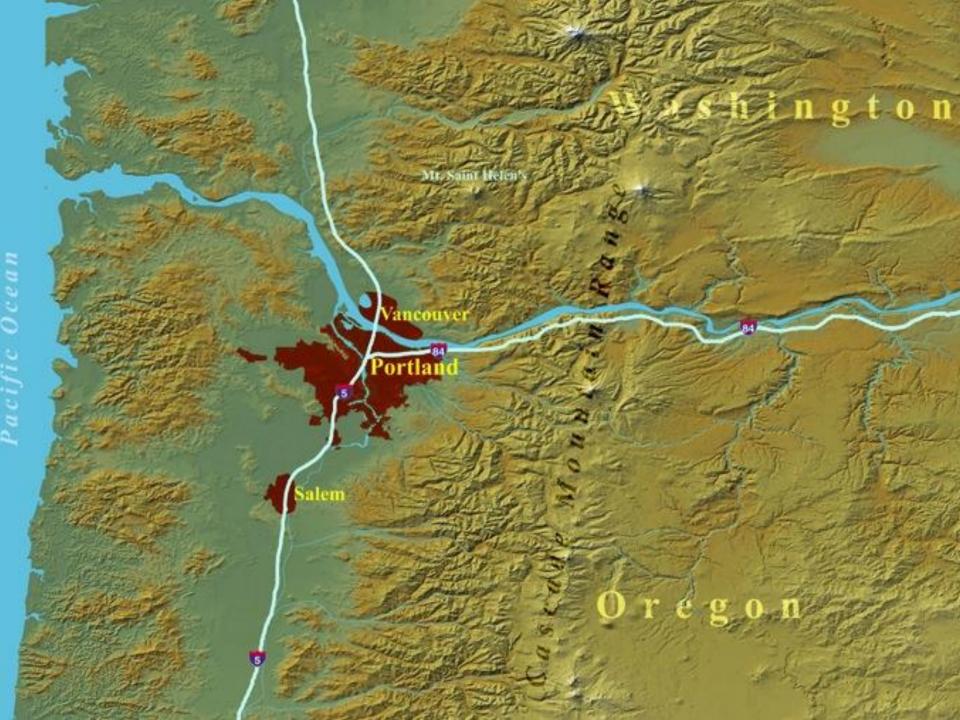
Alan Lehto Director of Planning & Policy February 11, 2016



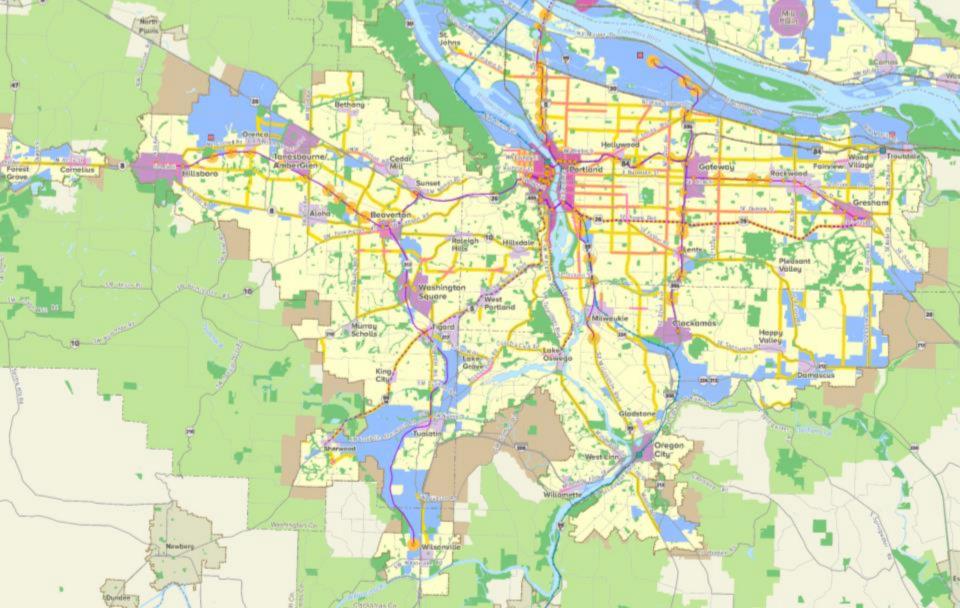
A little bit about the Portland, OR region



Don't just chase congestion – Plan for mobility and access



Regional Vision: 2040 Growth Concept



Building toward six desired outcomes







Vibrant communities



Economic prosperity







Transportation choices Clean air & water

Climate leadership

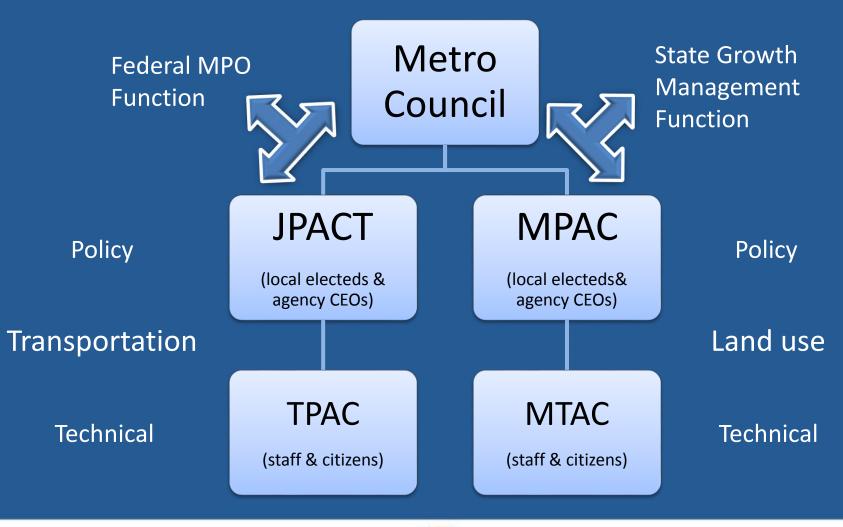


Building upon local plans and visions





Regional Governance Structure





Comparing the Alternatives

PORTLAND REGION

CONGESTED

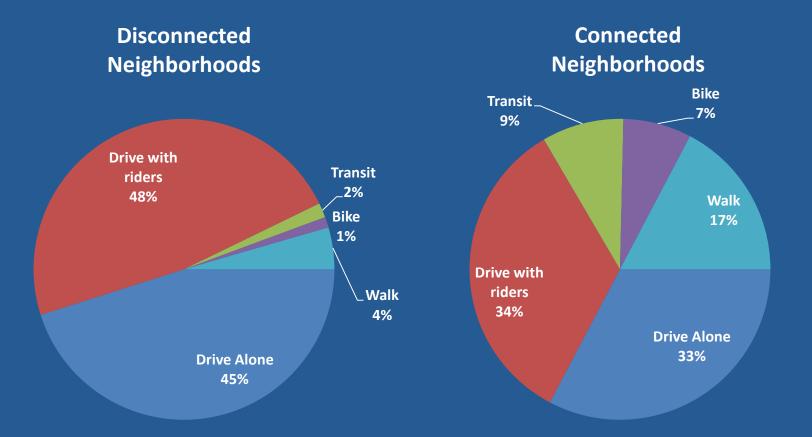
69 Hours

Spent in congestion per household

IMPROVED 37 Hours



Getting there with choices



Data Source: Oregon Household Activity Survey 2011; analyzed by Kittelson & Associates, using Oregon Metro Land Use Typology



The Gift That Keeps On Giving

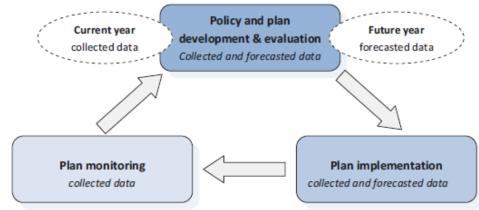
Data for Core Areas Points Toward Long-Term Benefits:

			Mode Share						
	survey	number of survey hh	%Auto ⁽³⁾	%Walk	%Transit	%Bike	%Other	VMT/Capita	Veh/HH
Good Transit/Mixed Use ⁽¹⁾	94-95	116	58.1%	27.0%	11.5%	1.9%	1.5%	9.80	0.93
Good Transit/Mixed Use ⁽²⁾	2011	81 ⁽⁴⁾	36.0%	44.3%	15.9%	1.9%	1.9%	6.54	0.64



Congestion Management Process

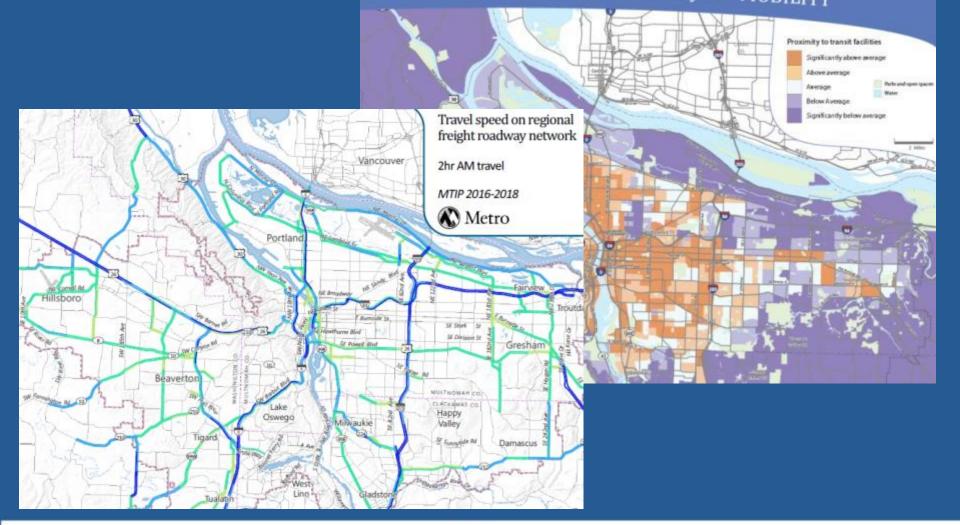
- Integral component of the Regional Transportation Plan (Long-Range Plan)
 - Goal 1: Foster Vibrant Communities and Efficient Urban Form
 - Goal 2: Sustain Economic Competitiveness and Prosperity
 - Goal 3: Expand Transportation Choices
 - Goal 4: Emphasize Effective and Efficient Management of the Transportation System
 - Goal 5: Enhance Safety and Security





Data Resource Guide: Informing Decisions

xible Funding Allocation - Equity Analysis - MOBILITY





PORTAL data archive supports monitoring

Extensive

- Freeway activity data
- Incident data
- Safety data
- Weigh in-motion data

Growing

- Transit data
- Arterial data
- Bike count data
- Pedestrian count data





November 4, 2009

TTO LINE INCURING THE LODG OF BILL KLOOD

If its with great task-set that ITE Lab faculty and disclosed pain along the have of the death at William C. Klose on Neurotake-196. Bit was a long time paperfer of the ITE Lab, the CBE Regaritment the review over advicely boardy, and PEC statement, BH was an extended to incomfain table relationed an .

October 29, 2009

FROM MONISPRE PRESENTS LAR WORK AT THE INNOVATIONS IN CONDECTION MONITORING MORYSHOP, BELIVED CHANK

Prof. Ministere gave an involved presentation about the 17.5 LAPs resent activities at the transactions in Congestion Ministering Workshop in Resiling China Orbiter 20.20, 2009. The emotivity and provinced by the Barling Terror Action Resilience Center and anapproximating the Barling Manningat Convoltes of

Road Miles

October 14, 2960

ITS LAR HORTS TRANSPORT TECHNICAL ADVISORY COMMITTEE MEETING

On Debites 19, 2008 TransPort Factorial Advance Committee visited the FFS Lab to read-selfs that States Type, Data Child Monane, PORTAL Sean, and PEU distance, Januari Mithawak, Sharearrayee Jabak, Proceeding Usagi and Editabili Falazamy kad preseriations on label exhancements to PORTAL (Podal 2.0).

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Aupest 15, 2009

INELLET ROW, ITS JOINT PROGRAM OFFICE DIRECTOR, VIOITS ITS LAB

30: Institut Tarba leal a dedicating of the PSU (FS Lab on Angust 28 for Sherber Pres, 17) Joned Traggare Other Director Obstantia House Li (Ostenbor of Boldworek Advanture Materiality and In Statil Trags, Anna Obstatil (Ostenborg PORTAL), Hebe Wakiel (Breekinging Contribut Lane) Track Types Time Eahm.

feed htre

August 7, 2009

BERTINE APPOINTED DEPUTY ADMINISTRATOR OF THE RESEARCH AND INNOVATIVE DECIMOLOGY ADMINISTRATION AT THE US DEPARTMENT OF TRANSFORTATION

infestion Berlini has been appointed the deputy administrator of the Research and monotive Technology Administration at the US Department of Transportation. As the

Housed and managed at Portland State University in Portland, OR http://portal.its.pdx.edu

Paul Mark

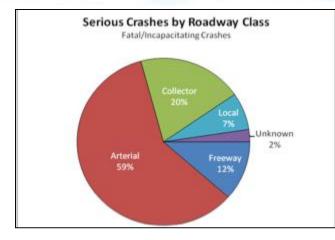
State of Mobility Corridors report sets baseline

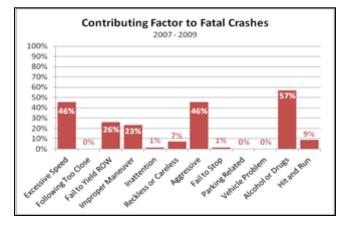
- Atlas of 24 mobility corridors displays existing conditions
 - Transportation facilities
- Planned land uses
- Roadway level-of-service
- Transit coverage/level of service
- Truck volumes
- Bikeway and sidewalk gaps



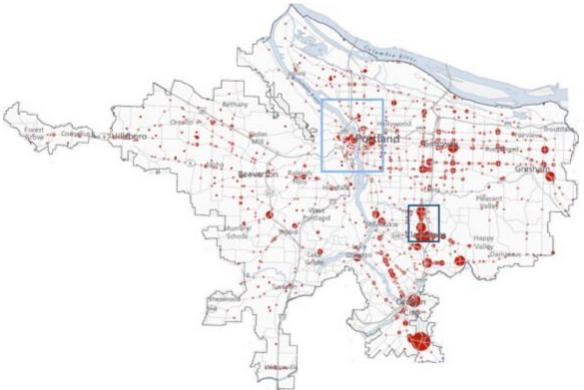
www.oregonmetro.gov/mobilityatlas

State of safety report sets focus for action

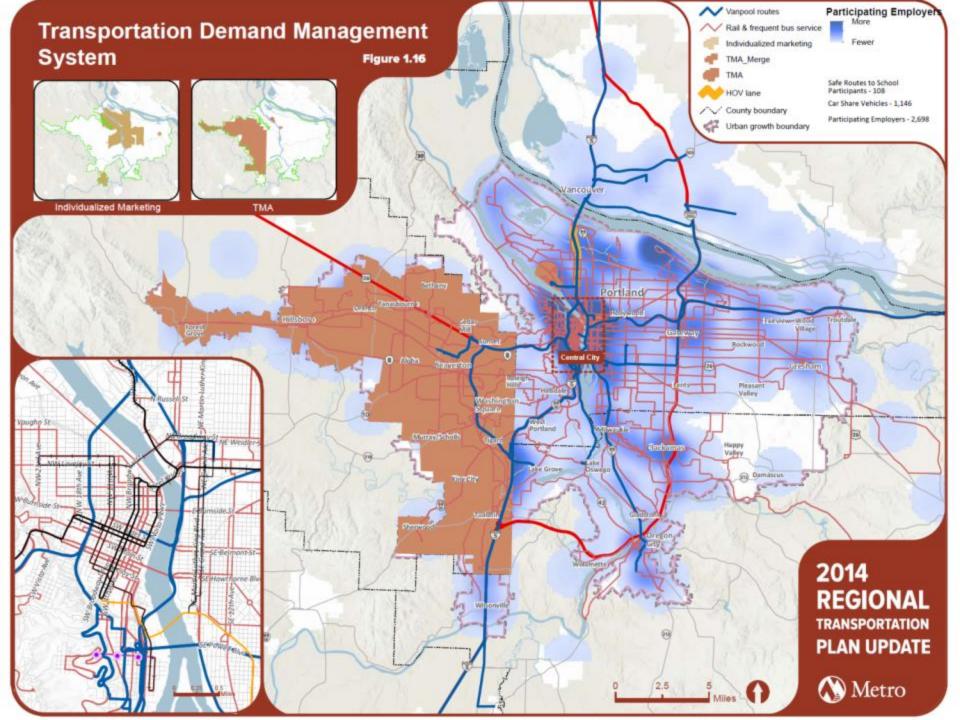


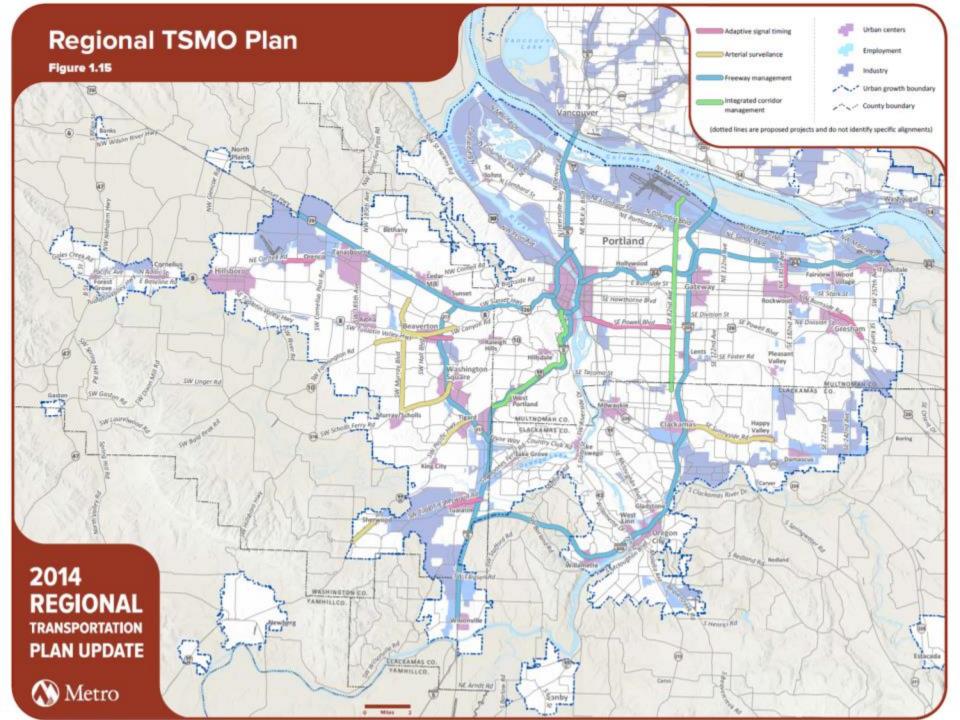


Crash hotspots for all modes of travel

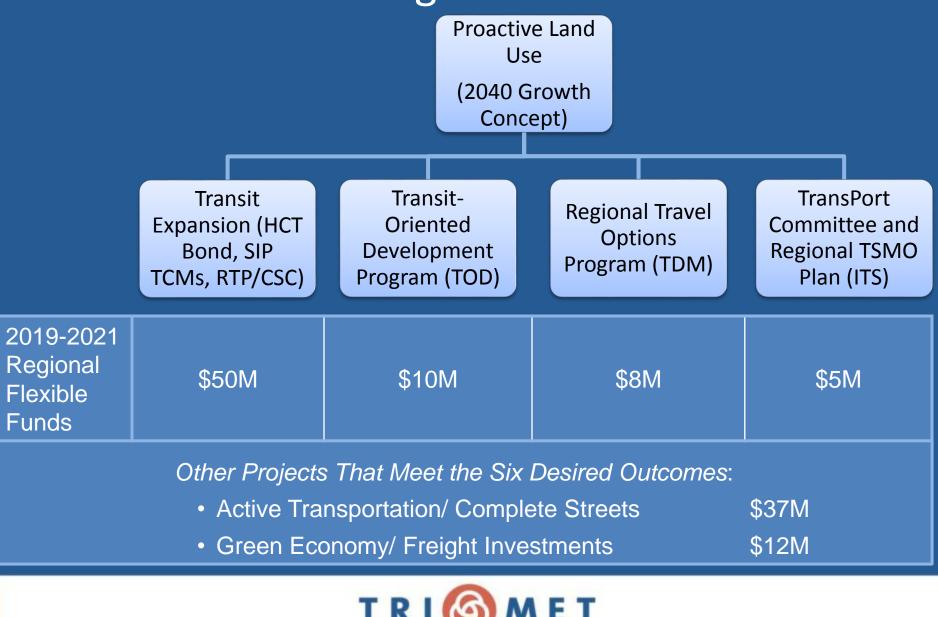


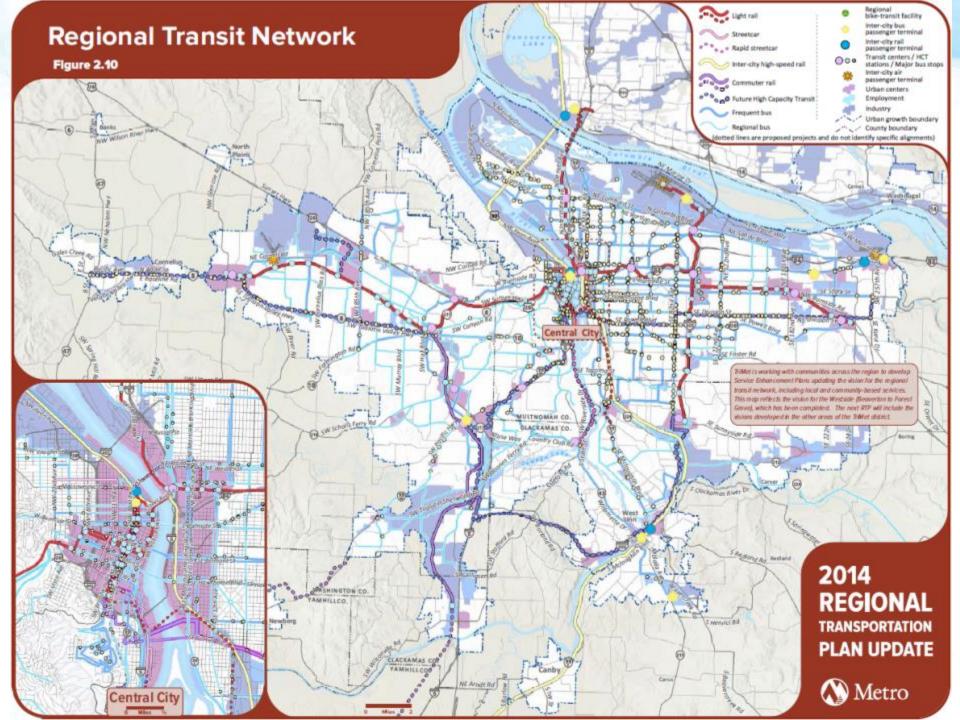
Source: Metro State of Safety Report (April 2012) Report available at <u>www.oregonmetro.gov/regionalmobility</u>





Collaborative Programmatic Investments





Columbia River Crossing – crossstate collaboration – two-by-two





Coordination Case Study: I-5 Bridge Project

- Local, regional and national implications
- Governance:
 - Bi-State Committee
 - Steering Committee





Thank you! Questions?



Alan Lehto Director of Planning & Policy lehtoa@trimet.org

T R I 🙆 M E T

Questions?

- Please enter your questions into the Q&A Pod on your screen
 - The moderator will direct your question to the appropriate presenter.
 - Slides from today' presentation are available in the download pod

• For more information on the Regional Models of Cooperation initiative, please visit:

http://www.fhwa.dot.gov/planning/regional_models/



Thank You!

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