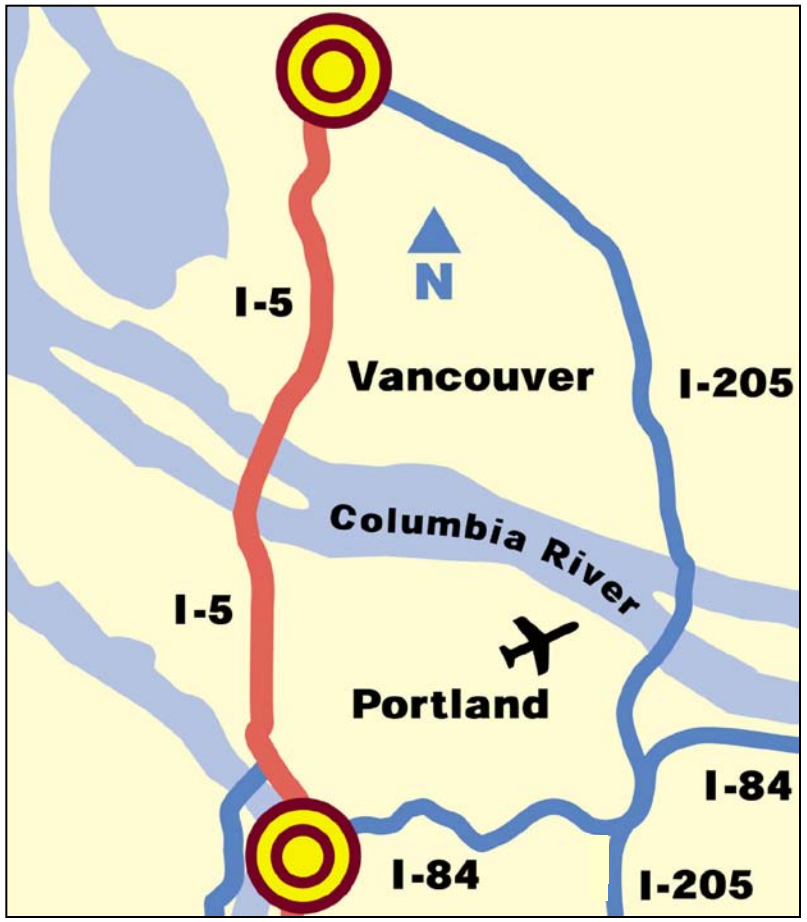
I-5 Partnership Update

Open Houses

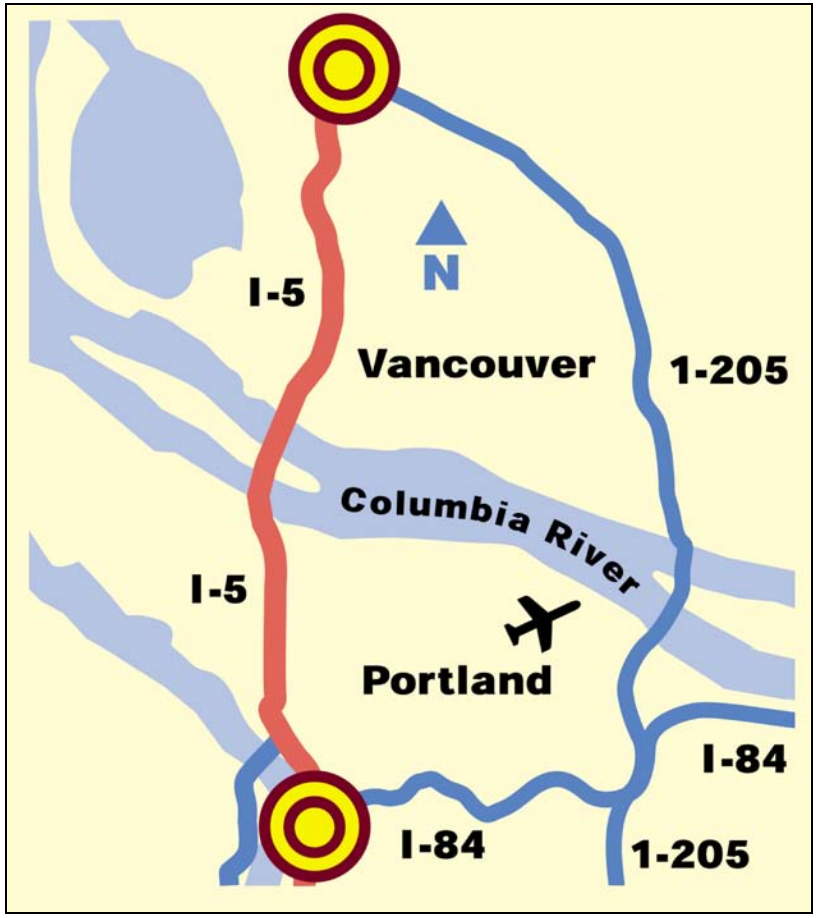
May 2002



Orientation to the I-5 Partnership

Introduction

- Bi-state planning project
- Sponsored by ODOT, WSDOT and FHWA
- Led by a 28-member bi-state Task Force
- Purpose of Project: Develop a strategic plan for I-5 corridor between Portland and Vancouver



Project Overview/Purpose

- Multi-faceted plan – looking not only at freeway, but also...
  - transit service in the corridor
  - managing demand
  - Freight, inter-city passenger, and commuter rail

Status of Project

- In January, 2001 a 28-member bi-state task force began its work.
- Members of the committee include elected, business, neighborhood and community representatives.
- Draft and Working Draft Recommendations for Public Review are available for comment.
- Additional work elements in the Bridge Influence Area, Land Use, Freight and Passenger Rail, Finance, Transportation Demand Management and Environmental Justice are available for comment.

Why Plan for this Corridor?

- One of the most congested corridors
- Key corridor for freight movement – unique nexus for trade
- Anticipated growth - will make the corridor's problems worse
- Threatens economic promise and livability

What Have We Done So Far?

- Development of problem, vision and values statement
- Public meetings to brainstorm ideas
- Development of evaluation criteria
- Narrowing of ideas
- Analysis of ideas
- Working draft recommendations
- Additional work to refine draft recommendations

Evaluation Factors

- Maintain or Improve Transportation Performance
- Support Trade and Freight Movement and the Regional Economy
- Maintain or Enhance Quality of Life
- Avoid and Minimize Impacts to the Environment
- Support Regional Land Use Plans
- Distribute Benefits, Costs, and Impacts Equitably
- Evaluate Costs

Overall Findings

- Without both transit and highway improvements in the I-5 corridor congestion and delay will grow steadily – resulting in congested conditions for much of the day

- To maintain or improve today's level of performance, up to two additional lanes of freeway capacity in each direction across the Columbia River are needed.

Previous Draft Recommendations

- 3-Lanes: Delta Park& 99th
- Phases light rail loop in Clark County
- Express bus service during peak periods
- New capacity across the Columbia River:
  - up to 2 new lanes in each direction, plus
  - 2 light rail tracks
- Bridge and Bridge Influence Area (including interchanges between SR500 – Columbia Blvd.)
- Concepts for Land Use Agreements
- Concepts for Transportation Demand Management

Focus of Tonight's Meeting

- Bridge and Bridge Influence Area (including interchanges between SR500 – Columbia Blvd.)
- Freight, Inter-City Passenger and Commuter Rail
- Environmental Justice
- Land Use Accord
- Transportation Demand Management
- Finance Options

Meeting Overview

Problem Vision and Values

Focus of Tonight's Meeting

- Bridge and Bridge Influence Area (including interchanges between SR500 – Columbia Blvd.)
- Freight, Inter-City Passenger and Commuter Rail
- Environmental Justice
- Land Use Accord
- Transportation Demand Management
- Finance Options

Map of Recommendations

Background

Previous Draft Recommendations

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- Concepts for Land Use Agreements
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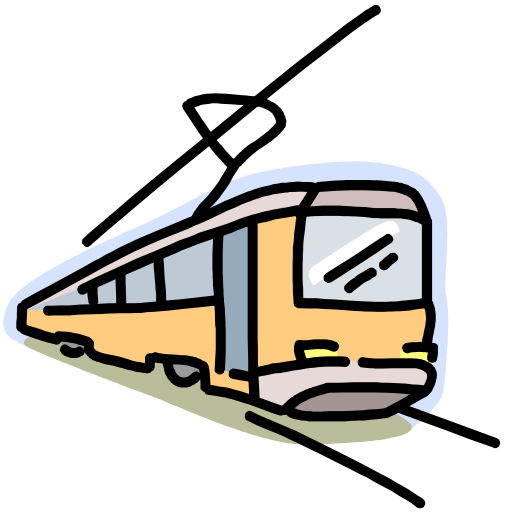
Recommendations at a Glance

Map

Highway

- Widen I-5 to 3 lanes where it is currently 2 lanes between: a) Delta Park and Lombard and b) 99th St. to I-205 in Vancouver.
- Do not widen I-5 to four through lanes in each direction between the Fremont Bridge in Oregon and the I-205 Interchange in Washington
- Make interchange improvements between SR500 in WA and Columbia Blvd. in OR, where necessary for the Interstate to function smoothly and safely.
- Make the Columbia Blvd. interchange in Oregon into a full interchange to facilitate freight movement.

Transit



- Establish a phased, light rail loop system in the vicinity of I-5, SR 500/4th Plain and I-205 to serve travel needs within Clark County and between the two states.
- Provide peak-hour, premium express bus service between the two states to supplement light rail.

River Crossing

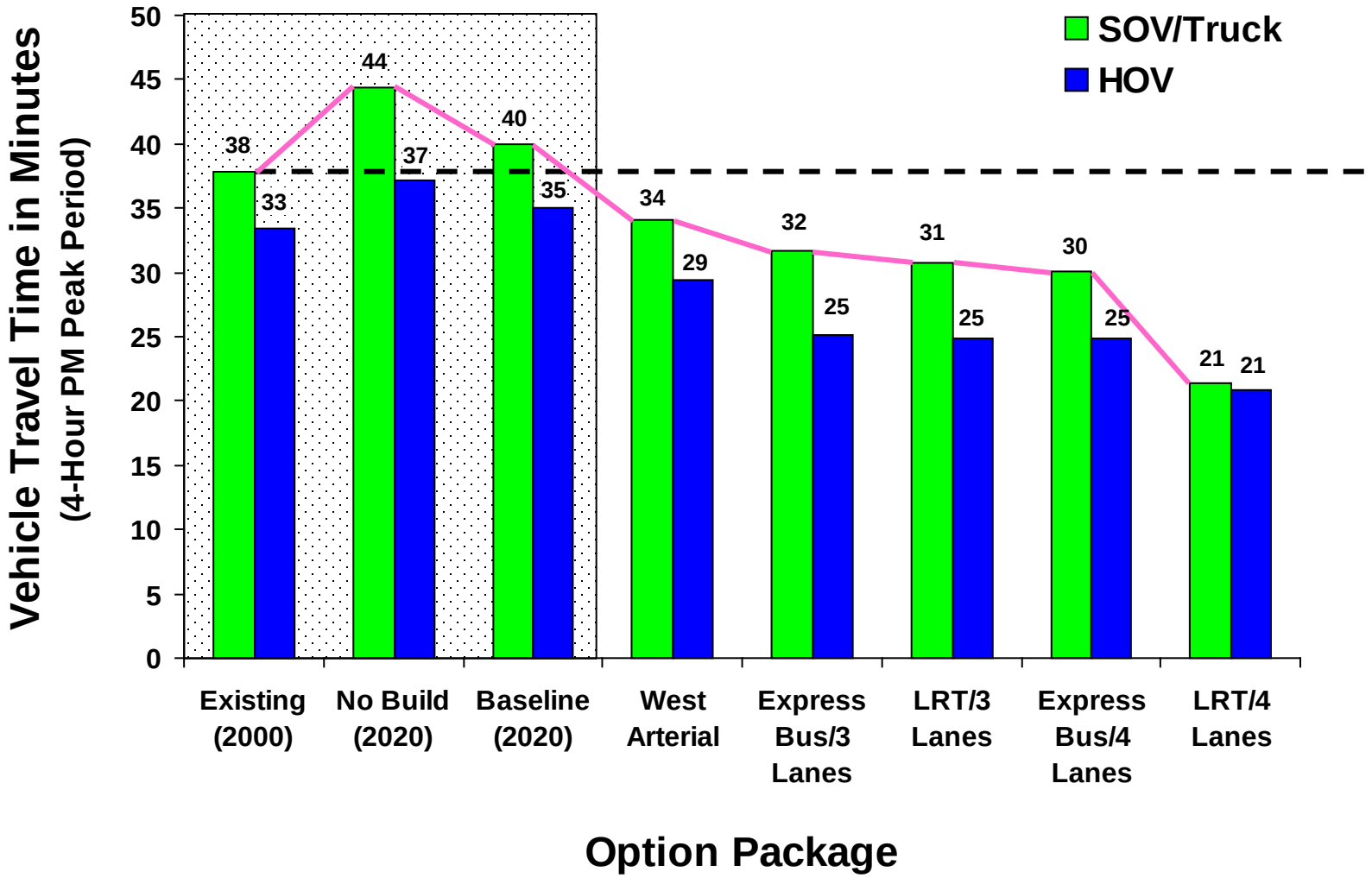
- Provide more capacity across the Columbia River in the I-5 corridor for vehicles, light rail and buses (up to 2 new lanes in each direction for vehicles and buses, and 2 light rail tracks).

Option Packages Evaluated

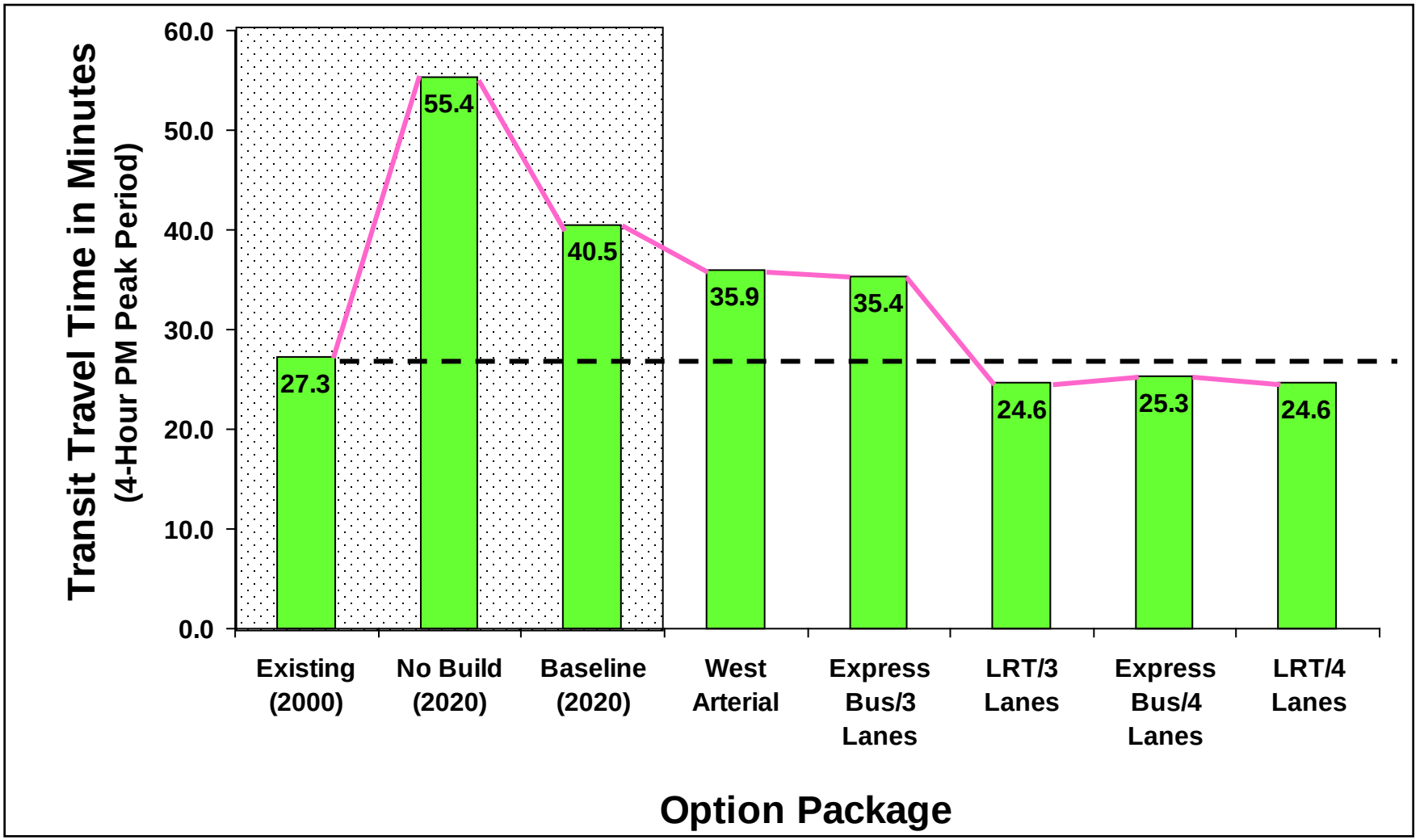
- No Build
- Baseline
- Express Bus/3 Lanes
- Light Rail/3 Lanes
- Express Bus/4 Lanes
- Light Rail/4 Lanes
- West Arterial Road

Vehicle Travel Times

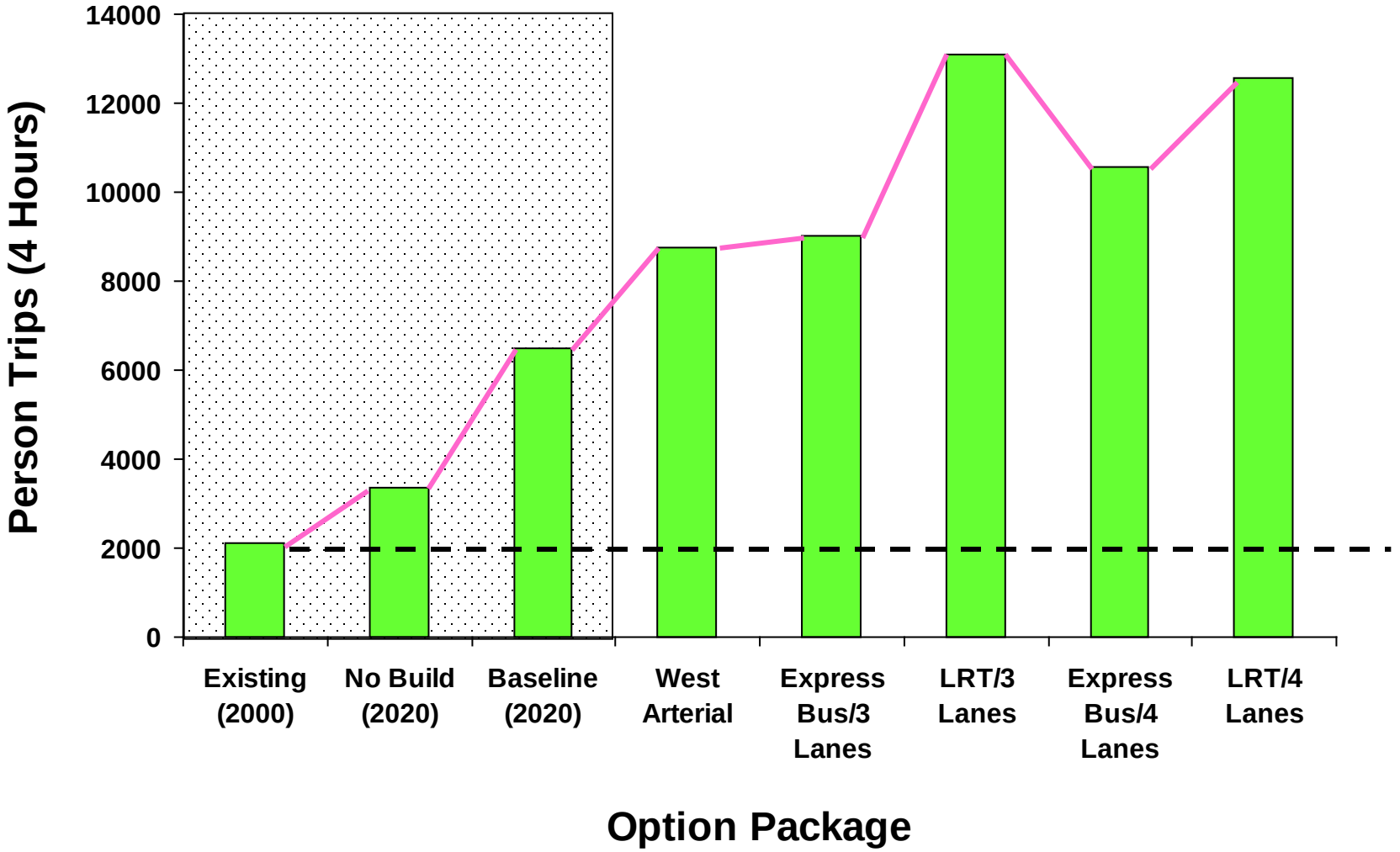
Downtown Portland to Salmon Creek (PM Peak)



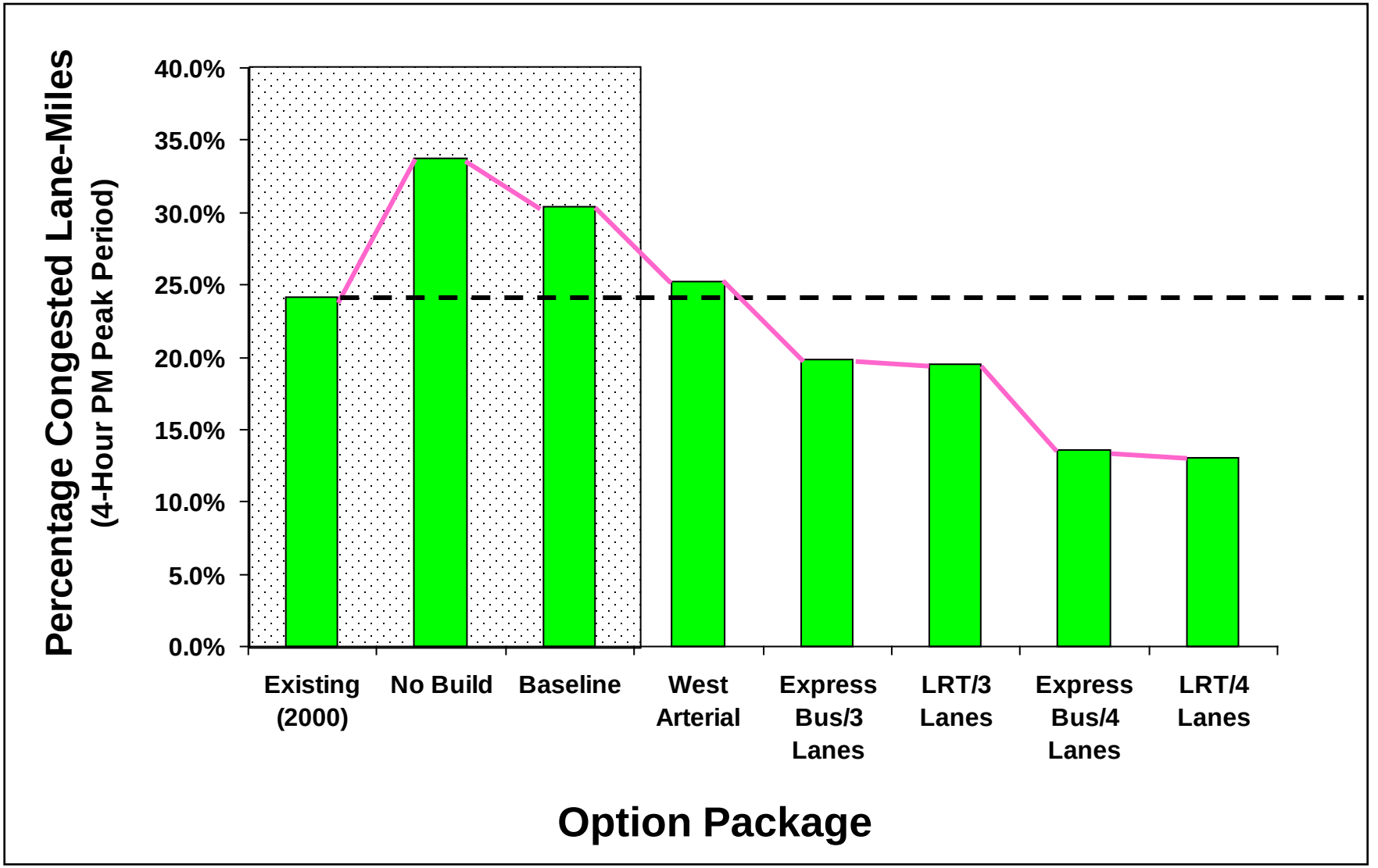
Transit Travel Time: Downtown Portland to Downtown Vancouver (PM Peak)



Transit Trips Across the Columbia River (PM Peak)

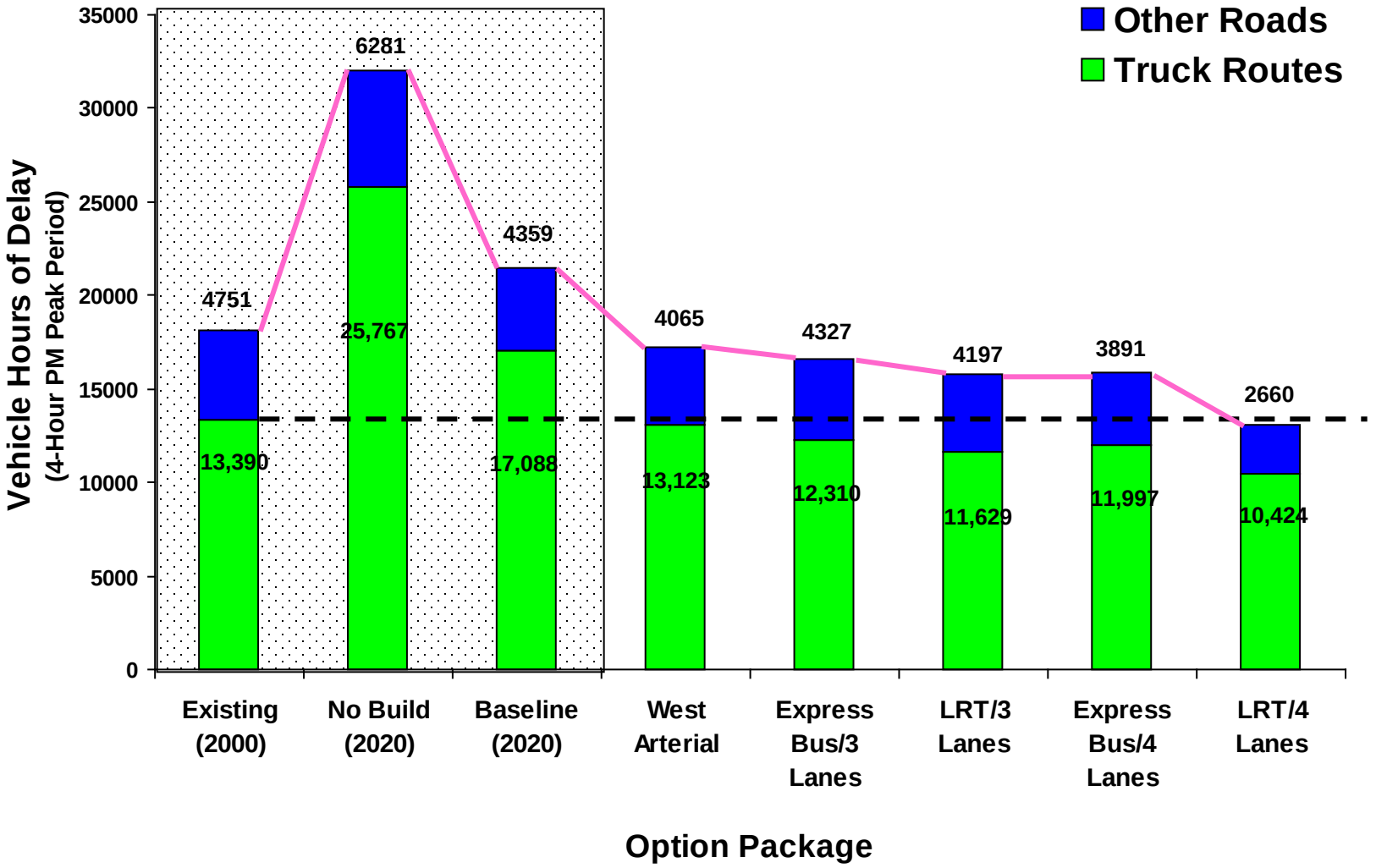


Congested Lane-Miles on I-5 and I-205 (PM Peak)



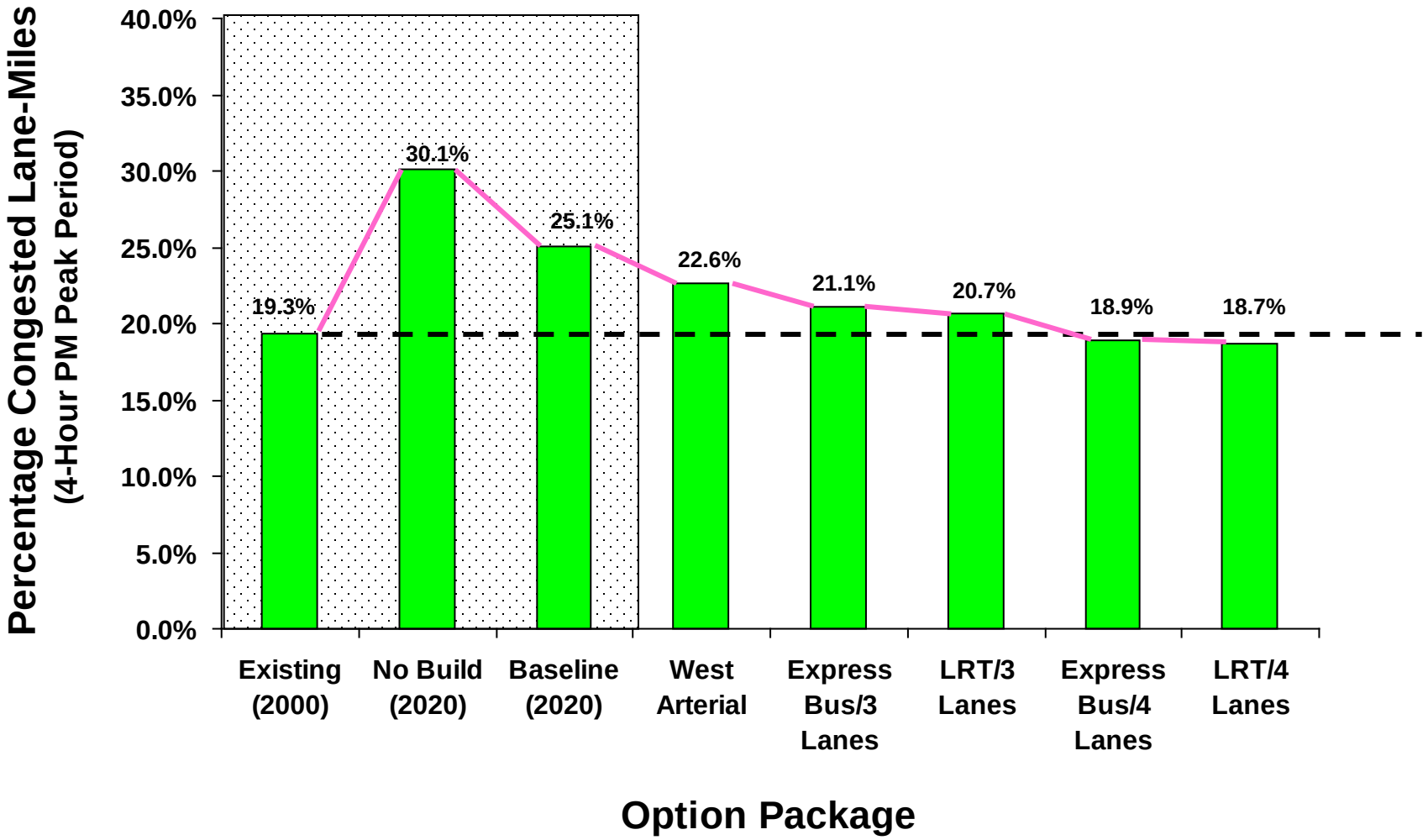
Vehicle Hours of Delay

In the Study Area (PM Peak)



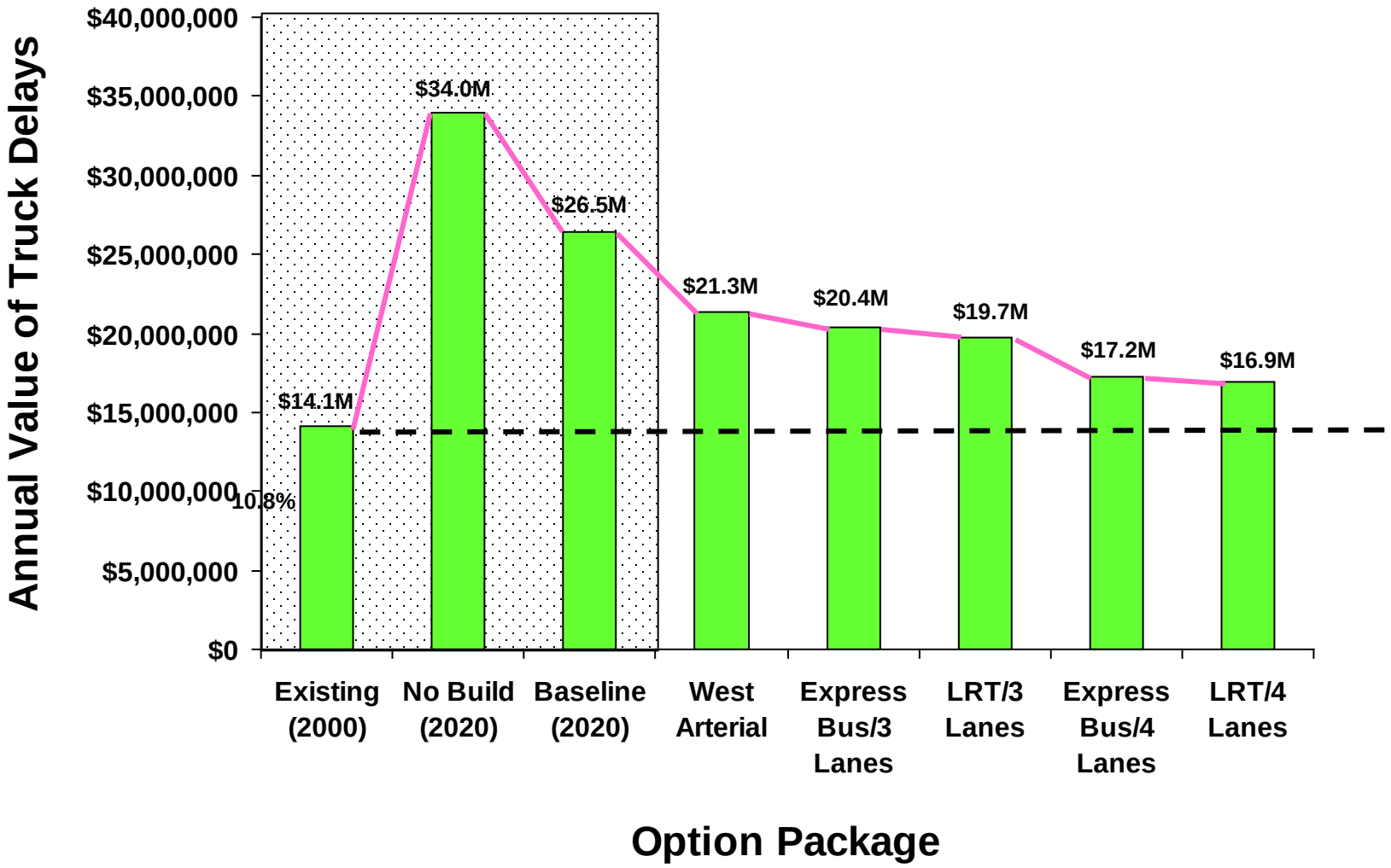
Congestion on Truck Routes

Congested Lane-Miles (PM Peak)



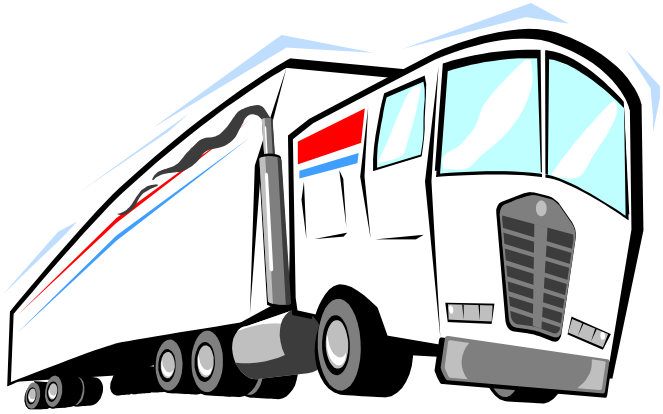
Value of Truck Delay

(In the Study Area)



How Do The Recommendations Address Freight Needs?

- **Eliminates bottlenecks at:**
  - Delta Park
  - Columbia River Bridge
  - 99th in Vancouver



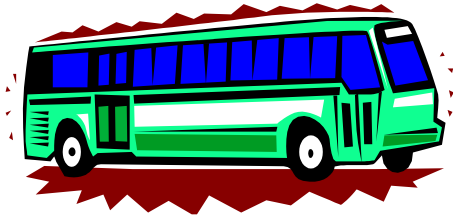
- **Significantly reduces:**
  - vehicle hours of delay on truck routes
  - lane miles of congestion on truck routes
  - the cost of truck delay

How Do The Recommendations Address Freight Needs?

- **Makes Columbia Blvd into a full access interchange:**
  - Provides a direct connection to I-5 for one of the region's busiest freight routes (Columbia Blvd).
  - Reduces congestion at the Marine Drive interchange.
  - Improves utilization of Columbia Blvd for trucks.

Benefits for Freight and the Economy

- Better access to and from key industrial destinations
- Better access to and from key employment centers
- Better travel times and less congestion on I-5
- More reliability and predictability on I-5
- More reliability and predictability in transit service



West Arterial Road

- No further study at this time, of a new west arterial road connection between the states in the vicinity of the railroad bridge. However, this alternative should be identified as a potential transportation solution for consideration in the future.

Rose Quarter

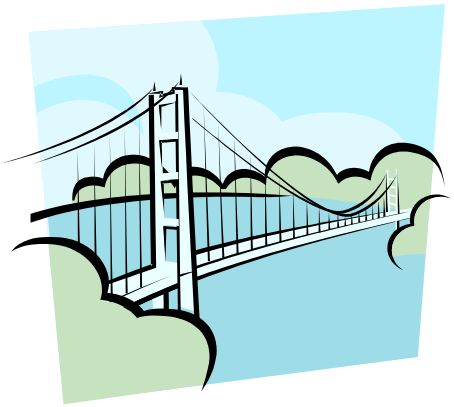
- The transportation issues near the Rose Quarter must be addressed and solved as part of an evaluation of the entire I-5/I-405 freeway loop.

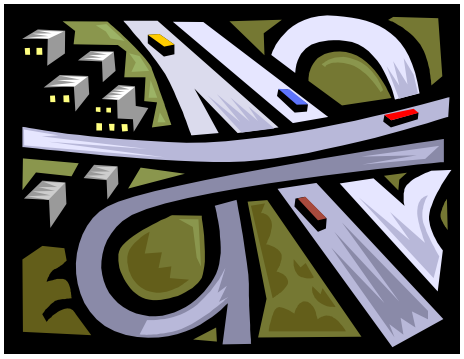
Bridge Influence Area

New Work on the Bridge and Bridge Influence Area

(SR 500 to Columbia Blvd)

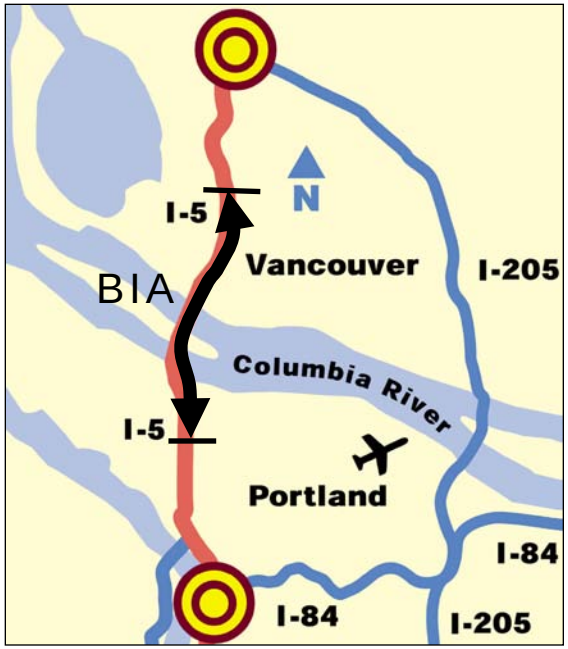
- How can I-5 bridge and interchange improvements between SR 500 to Columbia Blvd. be designed to:
  - minimize disruption to neighborhoods and the environment,
  - address merging and safety problems, and
  - safely move traffic on and off the freeway?



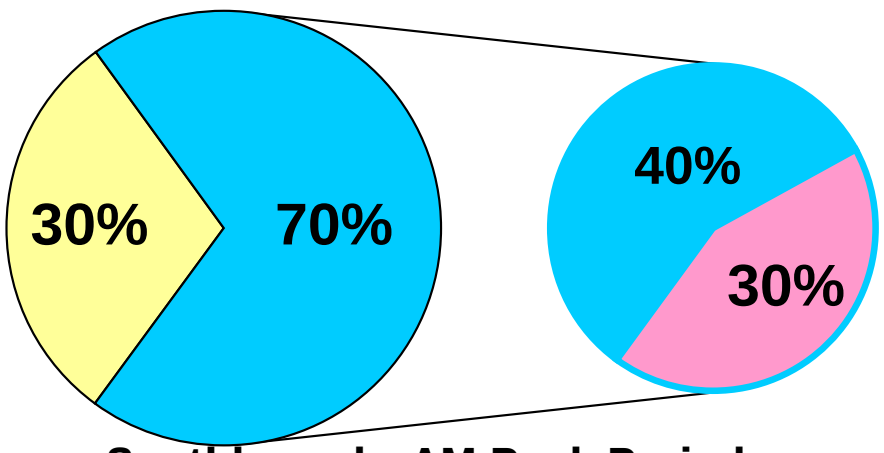


I-5 Columbia River Bridge Traffic

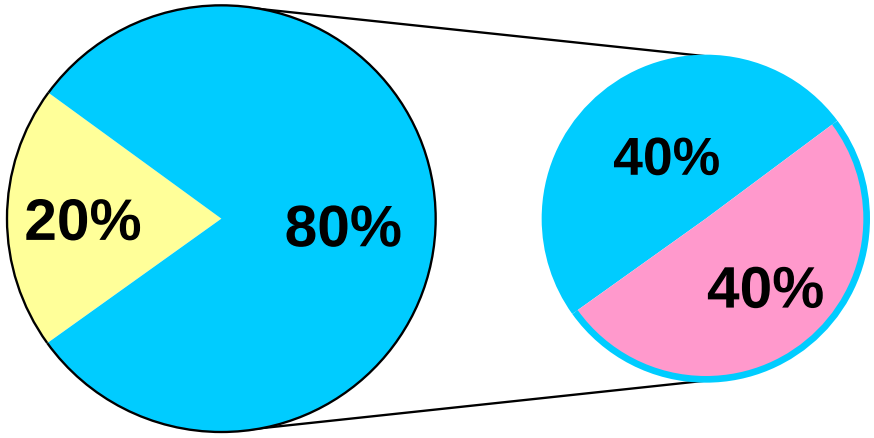
2020 Through Trips vs. Bridge Influence Area Trips



- Through Trips
- Enters or Exits I-5 Within the BIA
- Enters and Exits I-5 Within the BIA



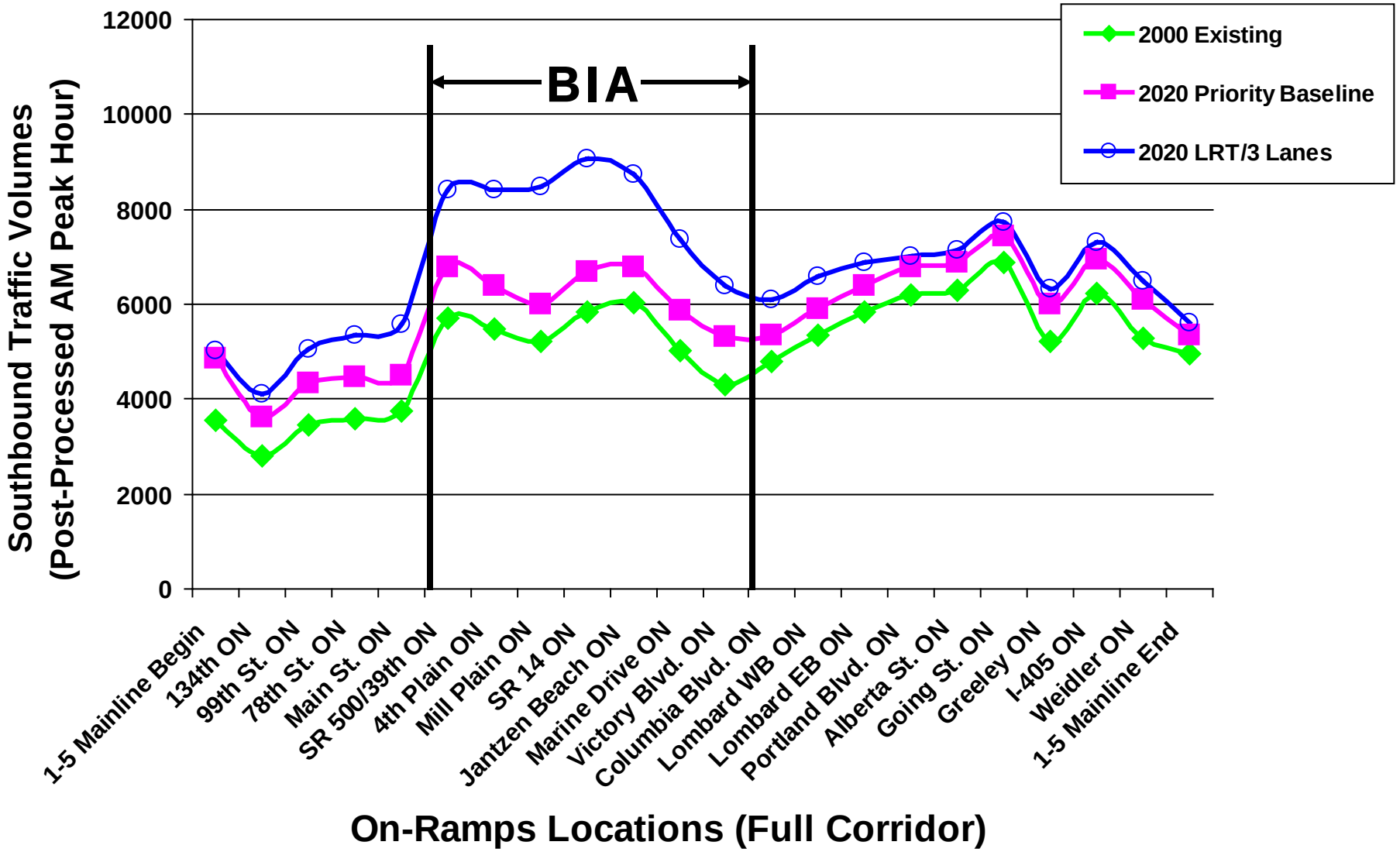
Southbound - AM Peak Period



Northbound - PM Peak Period

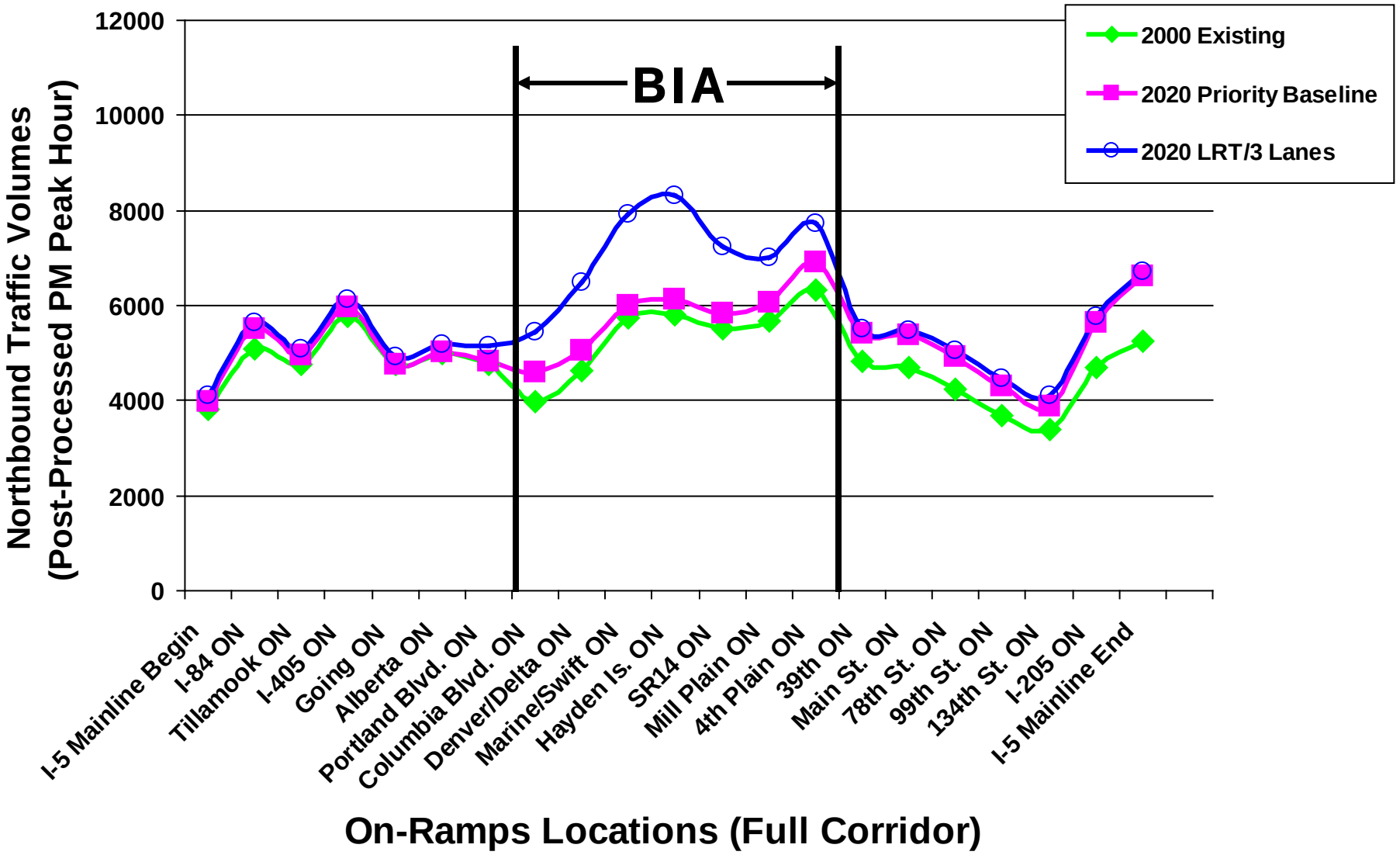
Southbound Travel Volumes

Along I-5 (AM Peak Hour)



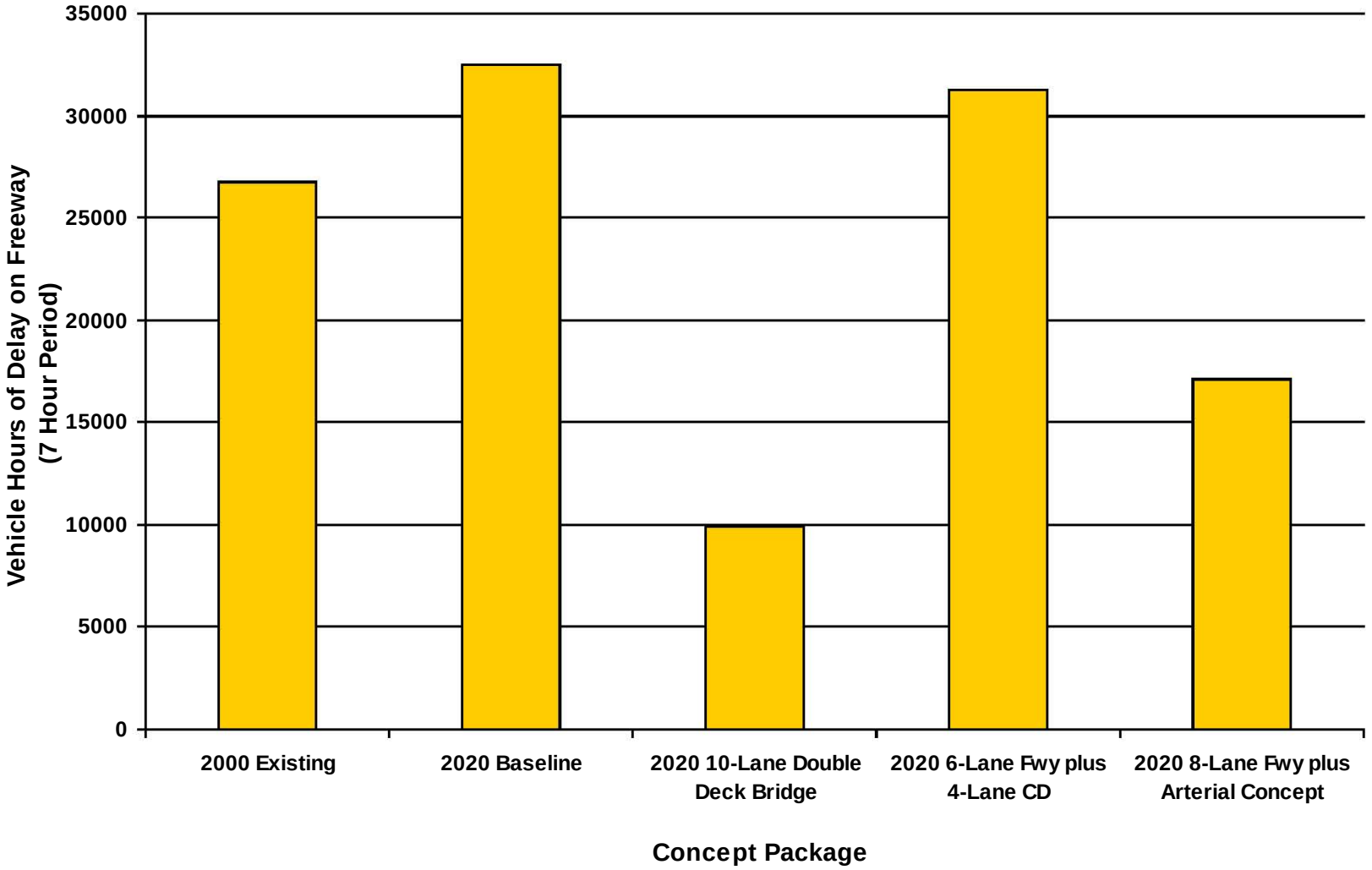
Northbound Travel Volumes

Along I-5 (PM Peak Hour)



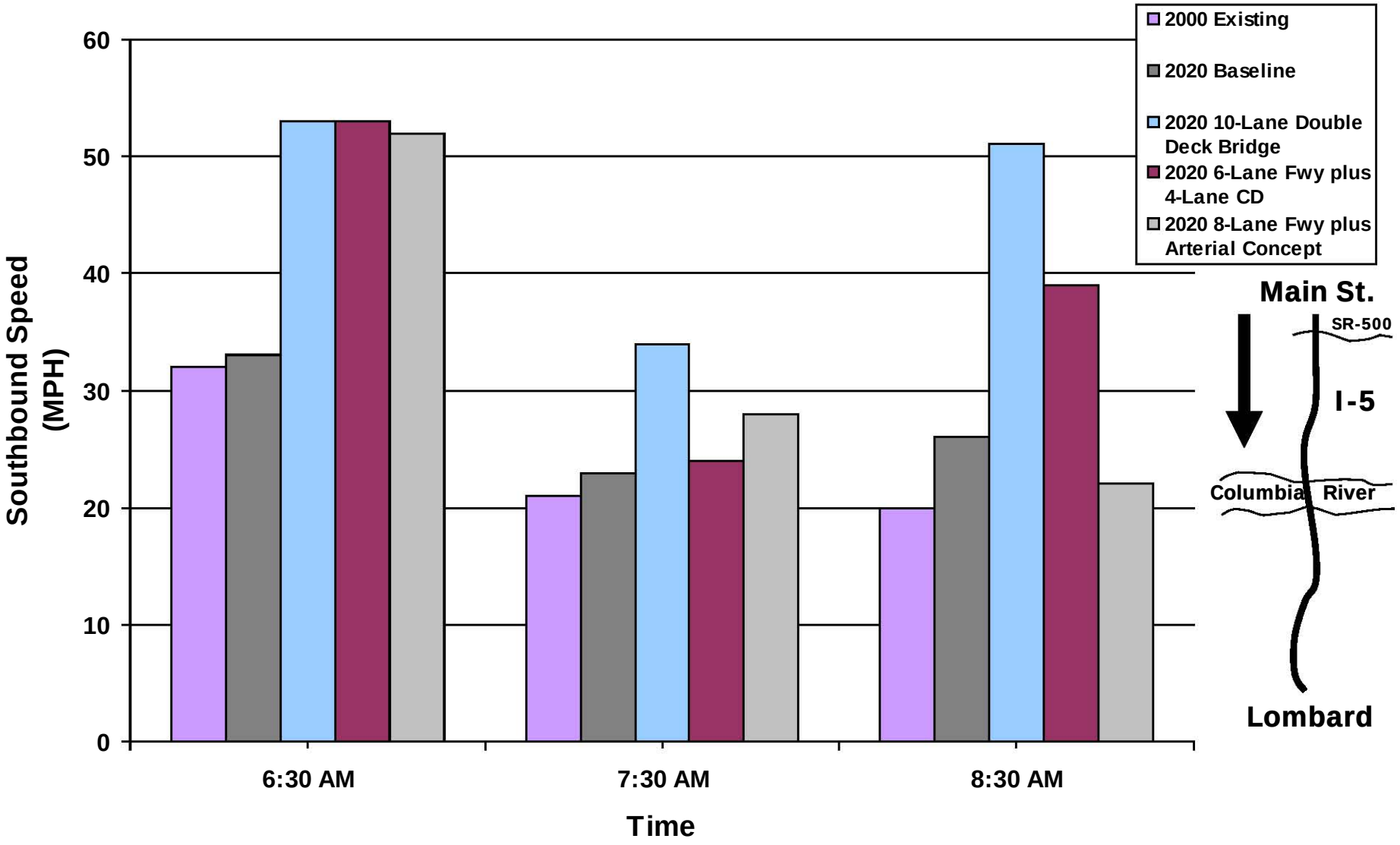
Vehicle Hours of Delay on I-5

(AM and PM Peak Periods)



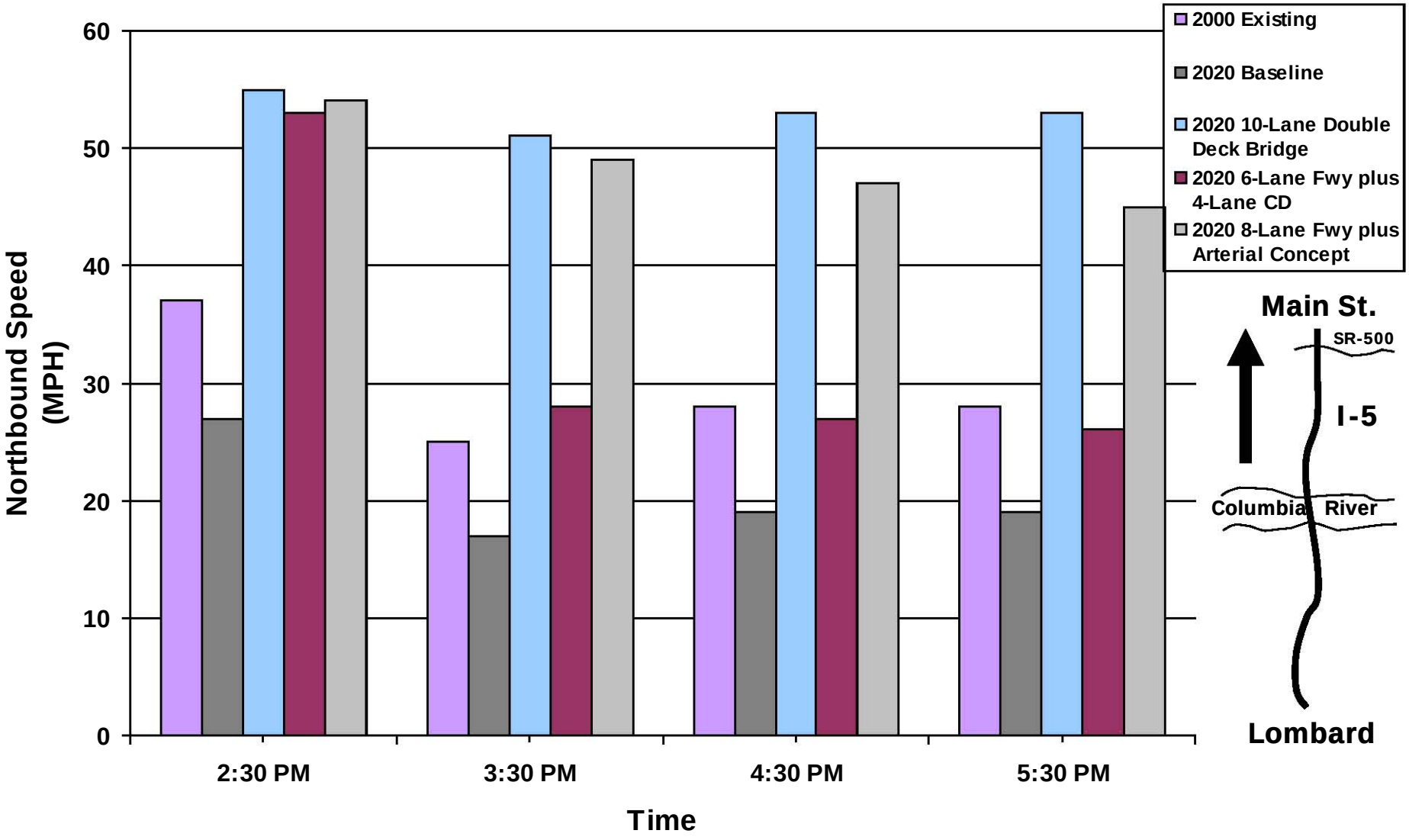
Average Speed

I-5 Southbound - Main St. to Lombard (All Traffic)

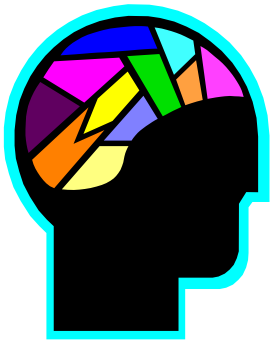


Average Speed

I-5 Northbound - Main St. to Lombard (All Traffic)



Overall, what did we learn?



- **Compared to Existing Conditions and Baseline 2020, the Bridge Influence Area improvements:**
  - reduce delay and
  - improve speeds
- **Some Concepts work better than others:**
  - 10-lane replacement bridge works best
  - 8-lane plus arterial system also works, but has less flexibility
  - The collector-distributor system does not work -- it has difficult design problems

Arterial Bridge With Additional Freeway Capacity Works

- The arterial connection, in conjunction with an additional freeway lane, can provide important transportation benefits:
  - Removes local trips from the freeway,
  - Reduces the need for freeway level improvements
- Further study is needed -- there may be more delay at interchange ramps and along arterials approaching I-5 than a freeway-only option

What about an Arterial-Only Bridge?

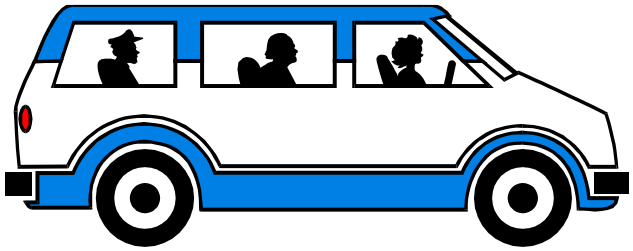
- A two-lane arterial-only bridge (no increase in freeway lanes) will not address the problems on the freeway.
- The arterial-only connection would only slightly improve freeway performance
- Congestion and delay would still increase substantially on I-5

Traffic Changes on Other Roads

- Minimal traffic increases on I-5 outside the Bridge Influence Area.
- In Portland:
  - traffic will increase on arterials near the BIA (Denver, MLK, Columbia), but
  - the effect of the capacity increase is dispersed as you travel away from the BIA.
- In Vancouver:
  - traffic will increase on SR 500 and SR 14
  - little change will occur on arterial roads

Other Transportation Performance Issues

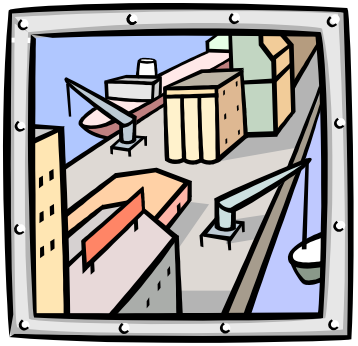
What about HOV?



- A corridor-wide HOV lane is a possibility with a new river crossing
- How well HOV works is highly dependent on design:
  - Direct access ramps should be considered at key locations (i.e., SR 500)
  - Bridge design also affects HOV performance
- Further design work in an EIS is needed to ensure that it will operate well and be used

How is Safety Addressed?

- Improvements make it easier and safer to get on the freeway
- New bridges would be built to current standards and better withstand a major earthquake.
- Bridge heights do not cause problems for airplanes using the Pearson Air Park.
- Replacement bridge allows the shipping channel to move - this is safer for marine navigation
- Some bridge concepts minimize number of crossings -- this is safer for marine navigation

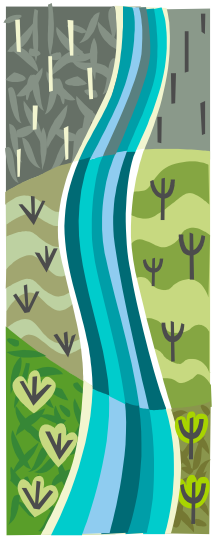


How will improvements help freight mobility and the economy?

- Improved access to and from:
  - key industrial destinations such as Port of Vancouver, and Rivergate, Columbia Corridor
  - key employment centers such as downtown Portland and downtown Vancouver, Columbia Corridor, Swan Island, Lloyd Center
- Improved travel times and reduced congestion on I-5
- Increased reliability and predictability in transit service
- BIA improvements help to:
  - create a positive business climate
  - make the region an attractive place to locate and expand business.

What are the Potential Costs and Impacts?

Potential Costs and Impacts



- **Costs:** All improvements in the Bridge Influence Area are about $1.2 Billion
- **Fish:** All concepts have the potential for impacts to fish habitat with new crossings of Columbia River, North Portland Harbor and Columbia Slough
- **Parks Wetlands:** Potential impacts to the radio tower wetland and Delta Park depending on the Concept -- encroachments range from 60-240 feet.
- **Historical:** All concepts encroach on Ft. Vancouver Historical Site and all concepts would impact the Interstate Bridges

Estimated Costs

Concept	BIA Estimated Costs $2001 dollars - in millions*				
	LRT	Arterial	Freeway	Capital Maintenance And Seismic	Total
Ten- lane Freeway Concepts					
5-lane southbound supplemental bridge for freeway traffic w/LRT, lift Bridge	$82	$0	$969	$150**	$1,200
10-lane double deck, replacement bridge, plus LRT on separate new bridge – No lift	$186	$0	$989	$0	$1,175
Eight freeway lanes plus two-lane arterial					
8-lane freeway concept, plus new LRT bridge with two-lane arterial, lift bridges	$82	$137	$793	$150**	$1161

* Costs of potential improvements from SR 500 to Columbia Blvd, plus the Delta Park to Lombard widening. ** Estimated Costs for continued use of existing bridges.

Cost Findings

- Potential highway and transit costs in the BIA are all in the range of $1.2 billion (in 2001 dollars).
  - Estimate includes major maintenance and seismic retrofit costs for the existing bridges.
- Not a significant enough cost differential to eliminate any of the options based on cost alone.
  - A full exploration of life cycle costs of the existing bridges and seismic retrofit costs should be completed during the EIS.

Potential Property Impacts

	Concept #1: 5-lane southbound supplemental bridge for freeway traffic w/LRT		Concept #4: 10-lane double deck, replacement bridge, plus LRT on separate new bridge		Concept #6: 4-lane supplemental collector-distributor bridge w/LRT, plus 6 lane freeway		Concept #7: 8-lane freeway concept plus new LRT bridge with two-lane arterial	
	Residential	Non-Residential	Residential	Non-Residential	Residential	Non-Residential	Residential	Non-Residential
Displacements								
Vancouver	0	0	0	1	0	2	0	0
Portland	8	16	6	8	20	21	6	17
Total	*8*	*16*	*6*	*9*	*20*	*23*	*6*	*17*
Encroachments								
Vancouver	21	15	9	8	15	26	13	10
Portland	0	17	0	27	1	17	0	19
Total	*21*	*32*	*9*	*35*	*16*	*43*	*13*	*29*

Property Impacts

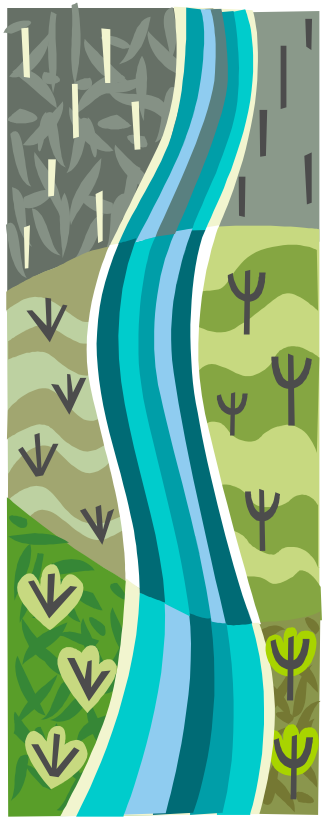
- Most impacts would be to non-residential properties.
- Replacement bridge would have fewest property impacts
- The collector-distributor bridge system would have the most property impacts.
- The majority of impacts would occur in Portland where improvements cross Hayden Island.
- Additional work is needed to determine actual number and extent of property impacts.

Fish Habitat

- All concepts have the potential for impacts to fish habitat with new crossings of:
  - Columbia River, North Portland Harbor and Columbia Slough
- Concept 4, the replacement bridge has the most crossings, while Concept 1 has the fewest.
- Impacts are dependent on the number bridges and their type, size and location
- Impacts will need detailed evaluation in an EIS and ultimately will need mitigation

Wetlands and Parks

- Potential impacts to the radio tower wetland and Delta Park
- All concepts, except concept 1, have encroachments onto Delta Park (60-120 feet depending on concept)
- All concepts, except concept 4, have encroachments onto the radio tower wetlands site (100-240 feet depending on concept)
- Impacts will depend on the design of improvements and will need detailed evaluation in an EIS



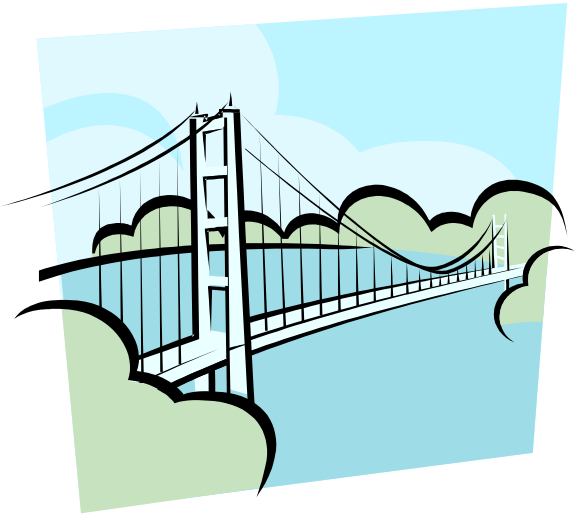
Historical

- **All concepts have encroachments onto the Ft. Vancouver Historical Site:**
  - 60-120 feet depending on concept
  - no historic buildings would be impacted
- **Columbia River Bridges:**
  - Northbound bridge is listed on the National Register of Historic Places -- southbound bridge is eligible for listing.
  - The replacement bridge would involve a full impact to the Columbia River Bridge.
  - Supplemental bridges would also impact the Columbia River Bridge but to a lesser degree.

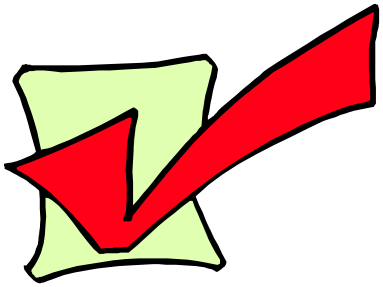
Key Resources - EIS Work

- Actual impacts to natural, cultural and historic resources will need to be determined in an EIS process.
- Mitigation may be required for some impacts.
- For impacts to resources:
  - Federal regulations require a determination in the EIS process that there is no feasible or prudent alternative.

More Work Required to Determine Bridge Type

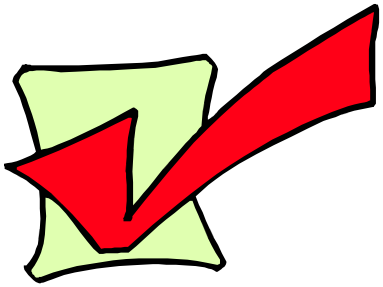


- Further study is needed to determine whether new bridge should be:
  - replacement or supplemental
  - joint use (light rail/freeway) or separate bridges



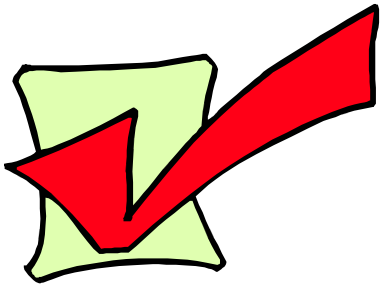
Draft Recommendations for Public Review

- New transit and vehicle capacity should be constructed across the Columbia River in the I-5 Corridor.
- For vehicles, there should be 3 through lanes (and not more than 3) in each direction and up to two short-distance lanes in each direction across the Columbia River (total 5 lanes in each direction).
- For transit, there should be two light rail tracks across the Columbia River in the I-5 Corridor.
- In the Bridge Influence Area, SR 500 to Columbia Blvd., the freeway needs to be designed to balance all of the on and off traffic, consistent with 3 through lane Corridor capacity and up to 5 lanes of bridge capacity, in each direction.



Draft Recommendations - Cont.

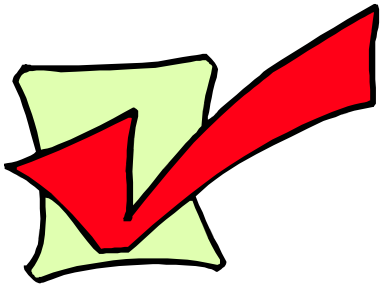
- In adding river-crossing capacity and making improvements in the Bridge Influence Area, every effort should be made to:
  1) avoid displacements and encroachments, and
  2) minimize the highway footprint in the corridor, and
  3) minimize the use of the freeway for local trips.
- The proposed design should include safety considerations.
- As a first step towards making improvements, the bi-state region should undertake an Environmental Impact Study for a new River Crossing and potential improvements in the Bridge Influence Area.



Draft Recommendations - Cont.

- In the EIS, the following BIA elements should be studied:
  - 8 or 10 lane freeway concepts
  - Replacement or Supplemental bridge
  - Joint use or non-joint use freeway/LRT bridge
  - 8-lane freeway with joint LRT/2-lane arterial
  - HOV throughout the I-5 Corridor

- The following concepts do not show promise for addressing the corridor's problems and should not be considered in an EIS:
  - Collector-Distributor bridge concepts
  - Arterial-only bridge concepts
  - Tunnel concepts



Draft Recommendations – Cont.

- One of the 3 through lanes should be designated for use as a high occupancy vehicle (HOV) lane during the peak period, in the peak direction. Further exploration is required in the environmental impact statement to optimize its design, particularly within the Bridge Influence Area; and to determine its overall effectiveness in meeting the Regional objectives for the I-5 Corridor.

Land Use Accord

New Land Use Work

- How can Washington and Oregon work together to protect the capacity and functionality of interchanges and transit stations?
- How can Washington and Oregon work together to achieve a functionally integrated, regional transportation and land use system (if new river crossing capacity is added)?

Land Use Trends Regardless of Transportation Investment in the I-5 Corridor

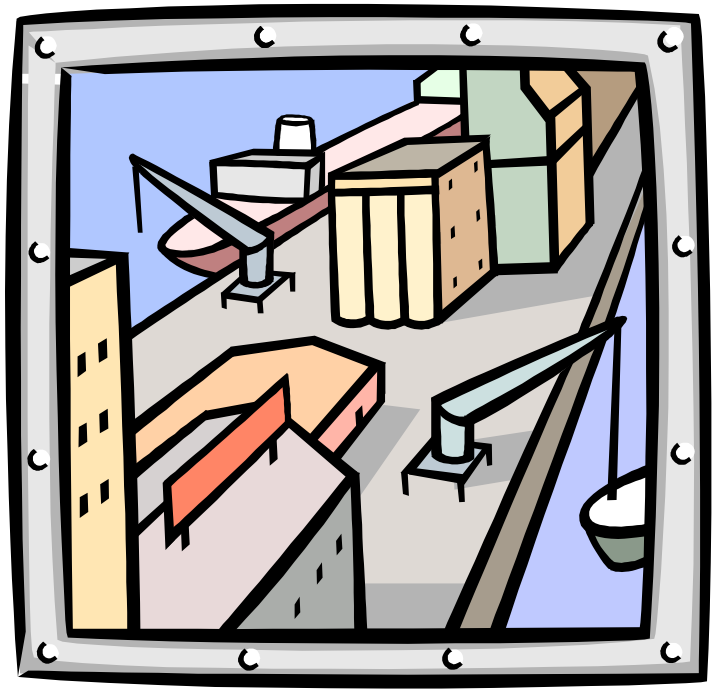
- Population and employment growth is locating at the urban fringe, within adopted zoning.
- More job growth in Clark County than anticipated in our current adopted plans
- Industrial areas are at risk of being converted to commercial uses:
  - threatens the availability of industrial land in the region
  - increases traffic congestion in the I-5 corridor.

Without Investment in the I-5 Corridor

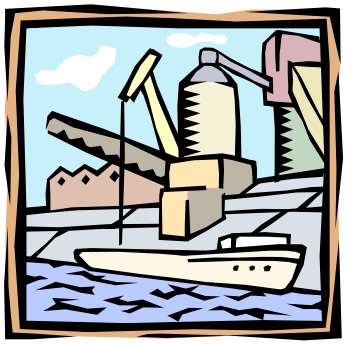
We can expect:

- Traffic congestion
- Reduced travel reliability

- This will have an adverse economic effect on industries and businesses in the Corridor.



With Highway and Transit Investments in the Corridor



- There will be travel timesavings that can be expected to have the following benefits:
  - attract employment growth toward the center of the region to the Columbia Corridor along the I-5 Corridor from elsewhere in the region
  - strengthen the regional economy by attracting more jobs to the region
  - new job opportunities for residents near the I-5 corridor because of their close proximity to the Corridor improvements being considered
  - mixed use and compact housing development around transit stations

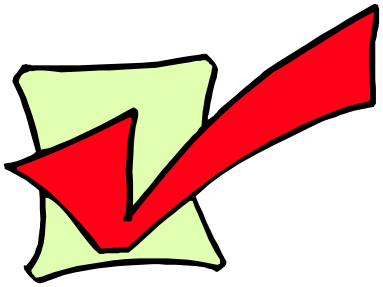
Investments Also Carry Risks if Growth is Not Managed

- Increased demand for housing in Clark County due to the location of jobs in the center of the region
- Increased pressure to expand the Clark County urban growth area along the I-5 Corridor to the north.
- Industrial areas are at greater risk of being converted to commercial uses at new and improved interchanges with the improved travel times at these locations.

Growth Must Be Managed

To ensure that:

- Growth in Clark County does not result in new capacity being used by commuters, instead of for goods movement
- The expected life span of investments is not shortened
- Scarce industrial land is not converted to commercial uses
- Zoning and regulatory changes occur to attract mixed use and compact housings around transit stations.



Draft Recommendations for Public Review

- To protect existing and new capacity and support economic development, jurisdictions and agencies in the Corridor need to develop and agree on a plan to manage land development to avoid adversely impacting I-5 or the Region's growth management plans.
- RTC and Metro, along with other members of the current Bi-State Transportation Committee, should adopt and implement a Bi-State Coordination Accord.
- The Accord signatories develop the operational details through the proposed bi-state Coordination Committee.

Key Elements of the Land Use Accord

Jurisdictions and Agencies Agree To Protect I-5 Corridor and Will:

- Manage development to:
  - preserve mobility and protect industrial land along I-5.
  - protect existing, modified and new interchanges
- Adopt development plans for transit station areas
- Coordinate management plans

Key Elements of the Land Use Accord- Cont.

Bi-State Transportation Committee Will Expand Role to:

- Review and advise JPACT, RTC, other councils, commissions and boards on:
  - Management plans, interchange plans and agreements and transit station plans for the I-5 corridor.
  - Other transportation, land use and economic development issues of bi-state significance.

Key Elements of the Land Use Accord- Cont.

Jurisdictions Agree:

- Before New Cross River Capacity is Added:
  - to adopt drafts of management plans, agreements and actions and include in environmental documents
- Before I-5 widened at Delta Park:
  - form Bi-State Coordination Committee
  - Have Committee review environmental documents
- Complete plans to manage existing interchanges with deliberate speed.

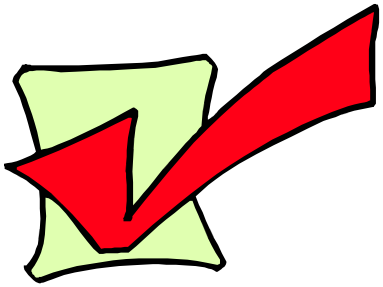
Transportation Demand Management

New Work for Transportation Demand Management

- What Transportation Demand Management and Transportation System Management strategies should be implemented to improve our mobility?

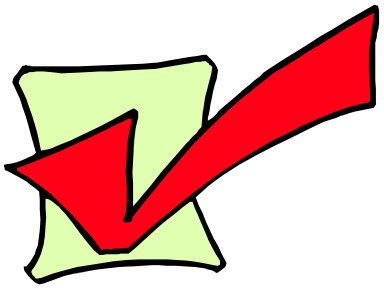
Findings

- TDM/TSM strategies are an effective and important part of the I-5 Corridor Strategic Plan.
- No silver bullet - we need a coordinated system of TDM/TSM actions to be effective.
- Transit service is the most important investment necessary to achieve TDM/TSM targets.
- Additional work is needed to determine the optimal mix, costs and effectiveness of TDM/TSM strategies.



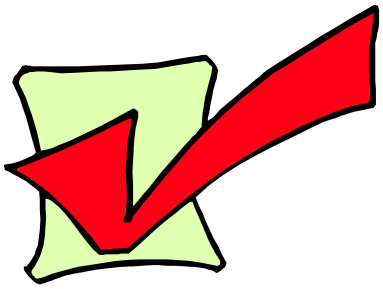
Draft Recommendations for Public Review

- A Regional commitment to expanded and enhanced a comprehensive mix of TDM/TSM strategies should be made in:
  - Alternative Mode Services
  - Work-Based Strategies
  - Public Policy and Regulatory Strategies
  - Pricing Strategies
  - TSM Strategies
- Additional funding needs to be sought for transit service and other TDM/TSM strategies.
- Regional transportation partners should prepare an “I-5 TDM/TSM Corridor Plan” with guidance from the proposed “Bi-State Coordination Committee”



Draft Recommendations for Public Review

- Targets are needed to measure success.
- Recommended **Interim Targets**:
  - **Corridor**:
    - Increase Non-Single Occupant Vehicle (SOV) share across the Columbia River in peak periods; 38% now and 43% in 2020.
    - Maintain average, mid-day travel speeds through the I-5 Corridor at 70% of the maximum posted speed limits for trucks traveling between I-405 and I-205.
  - **Region**:
    - Reduce daily VMT/capita for the urban areas of the Region by 10% by 2020.
    - Increase peak period travel reliability in the Corridor by maintaining travel times for all vehicles.
- **Final Targets** need to be determined by the Region through the I-5 TDM/TSM Corridor Plan.



Recommended Current Actions

These actions with an estimated budged of $1.87 million include:

- Education and outreach.
- Promote business subsidy of transit passes for employers.
- Promote capooolmatchNW.org.
- Offer guaranteed ride home at work sites.
- Work to integration of C-TRAN and Tri-Met customer information.
- Explore business and community interest for additional and/or expanded Transportation Management Associations in the I-5 Corridor.
- Increase coordination between Oregon and Washington Transportation Management Centers.
- Identify ramp meter locations and coordinate bi-state ramp meter timing for I-5 and I-205

Environmental Justice

New Work on Environmental Justice

- What low income and minority communities might be affected?
- What do these communities define as impacts?
- Are there benefits that could off-set or mitigate the impacts?
- What outreach and involvement tools should be used to get meaningful input from affected communities?

What is Environmental Justice?

- It is about being fair - ensuring that minority and low-income populations are not exposed to an unfair burden of impacts from government programs, policies and activities
- Guided by:
  - President's Executive Order 12898, 1994
  - Title VI of the 1964 Civil Rights Act

Environmental Justice Principles

- To avoid, minimize, or mitigate disproportionately high and adverse human health and environmental effects, including social and economic effects, on minority populations and low-income populations.
- To ensure the full and fair participation by all potentially affected communities in the transportation decision-making process.
- To prevent the denial of, reduction in, or significant delay in the receipt of benefits by minority and low-income populations.

Environmental Justice Communities in the Project Area

In Portland and Vancouver, most of the neighborhoods along the freeway and light-rail corridors have more low-income, and/or minority households than the average for the region

Environmental Justice is Defined by Affected Communities

- The community helps define:
  - who are the affected low income and minority communities
  - what are the impacts to the community
  - what is the process to involve the community

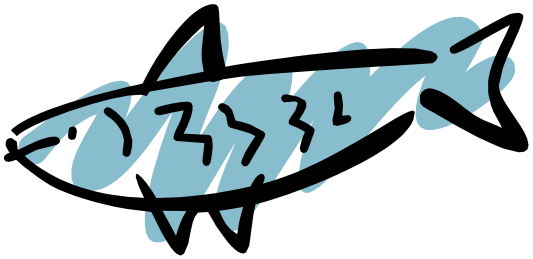
- Public involvement defines what are the benefits to the community.

What We've Heard So Far About Potential Impacts

- **Transportation:**
  - Increase in traffic on local streets and other freeways
  - Access to jobs and services for low income communities
  - Unsafe pedestrian and bike conditions during construction
  - Safety
  - Increased cars and commuting
  - Change in access to homes
  - Access to businesses during construction

Potential Impacts for Further Study - cont.

- **Environment and Health**
  - Increase in air pollution and related health impacts
  - Increased noise
  - Impacts to streams and fish
  - Impacts to soil



- **Historic and Cultural Resources**

Potential Impacts for Further Study - cont.

- **Property Impacts**
  - Displacement of homes
  - Displacement of businesses

- **Employment and Economic Opportunity:**
  - Access to jobs
  - Creation of jobs
  - Construction impacts on businesses

Potential Impacts for Further Study - cont.

- **Quality of Life**
  - Character and connectivity of neighborhoods
  - Noise
  - Lighting
  - Visual
  - Odor
  - Loss of natural areas and parks
  - Loss of access to natural areas and parks

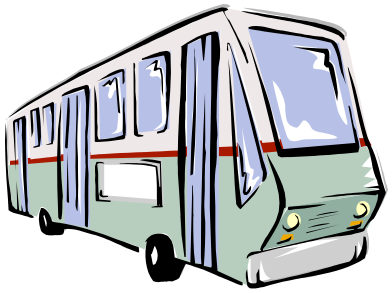
What We've Heard So Far About Possible Benefits

- **Employment and Economic Opportunity**
  - Access to jobs
  - Job opportunities from the project
  - Local business support and growth

- **Health and Community Services**
  - Health care support
  - Transportation access to health and human services
  - Education on health issues

Benefits to Consider - cont.

- **Environment**
  - Better air quality data
  - Air quality enhancements
  - More green spaces, parks and natural areas
  - Stormwater treatment to protect streams
- **Housing:**
  - More housing for people with low incomes
  - Noise and air quality enhancements of affected homes
  - Preservation of homes

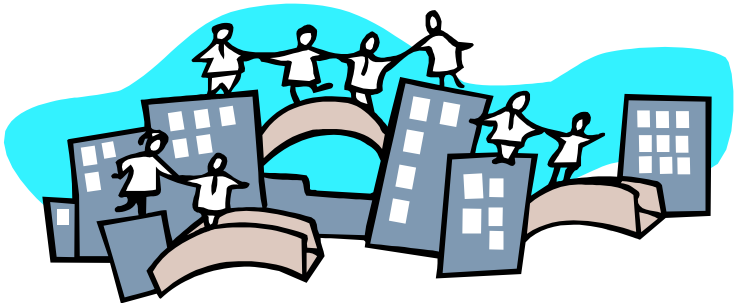


Benefits to Consider - cont.

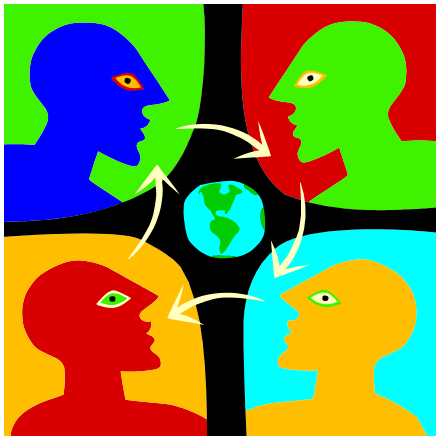
- **Transportation**
  - Improved access to jobs and services for people with low incomes, people of color, minorities
  - Improved bike and pedestrian safety
  - Improved connectivity between communities east and west of the freeway
  - Reduced single occupant vehicles
  - Better transit connections
  - Traffic calming in neighborhoods
  - Bi-state coordination of land use and transportation

Potential Benefits for Further Study - cont.

- **Community Building and Livability:**
  - More community amenities
  - Improved community connectivity
  - Improved capacity of low income and minority communities to be advocates for self and community
  - Support of community building activities
  - Support schools and other community resources
  - A community mitigation fund



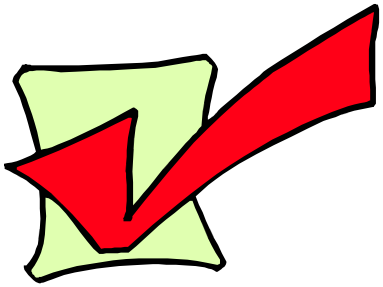
Ideas for Effective Outreach



- Improve community capacity to participate in project/process
- Apply environmental justice to its fullest
- Use a variety of outreach tools
- Decentralize methods of outreach
- Establish culturally sensitive, community-based outreach program
- Build community and one-on-one relationships

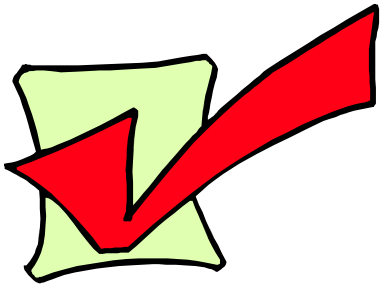
Ideas for Effective Outreach - Cont.

- Recognize diversity of non-English speaking groups
- Have tangible, accessible displays
- Make information and bureaucracy understandable
- Use community media to reach people
- Ensure culturally sensitive communication with immigrant groups



Working Draft Recommendations

- Complete a list of groups/agencies to work with for outreach
- Map low-income and minority communities based on:
  - further work to determine the most appropriate criteria and method
  - full 2000 census data, available summer 2002
- Take stakeholders' list of potential impacts into EIS as a starting point for more analysis.
- Work with affected communities to explore ways to offset impacts and/or bring benefits to the community. Use the stakeholders' list as a starting point.



Working Draft Recommendations - Cont.

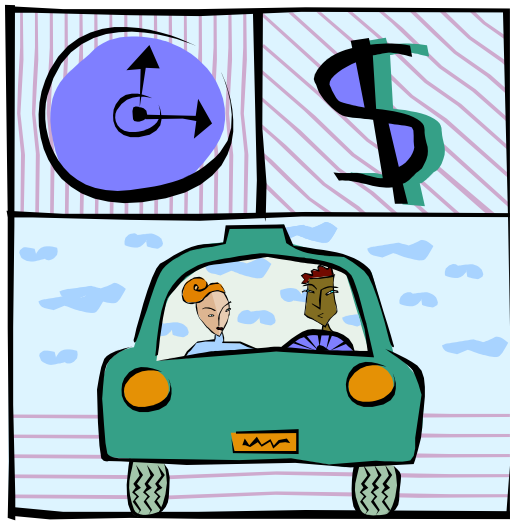
- Develop a public outreach plan for EIS process that includes special outreach to low-income and minority communities.
- Form and coordinate two working groups for the EIS -- one for public involvement and one for environmental justice.

What Do You Think?

- Are you from one of these affected communities? Please use the pink form, and give us your feedback on:
  - Environmental justice issues to address
  - Benefits to explore in the environmental impact statement
  - Ways to involve affected low-income and minority communities in the process

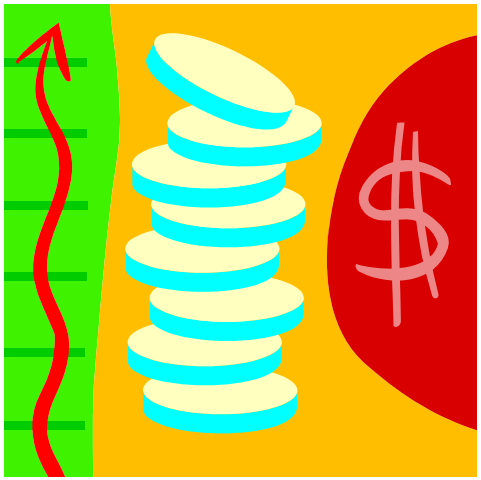
Financing

New Work on Financing Options



- What are the promising financing tools?
- What are the next steps for development of a financing plan to pay for the improvements?

How to Pay for the Improvements?



- Improvements are high cost and will require a variety of funding and financing tools.
- No single revenue source can fund projects.
- There are promising federal, state, and local revenue sources that, in combination, can finance the projects.
- Phasing of projects can help make financing more feasible.

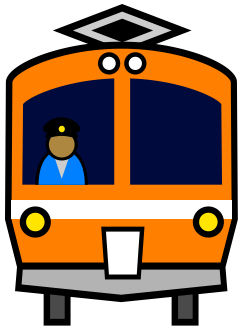
Cost of the Highway and Transit Improvements

- Bi-State transportation improvements for the I-5 corridor will be an expensive undertaking
- New state, federal and local revenue will be needed to construct the projects
- OR and WA will need to rely on several funding and financing tools
- Requires leadership and cooperation of many entities

- Estimated Capital Costs in 2001 Dollars:
  - Bridge and Bridge Influence Area[1] = $1.2 billion
  - Light Rail Loop = $1 billion

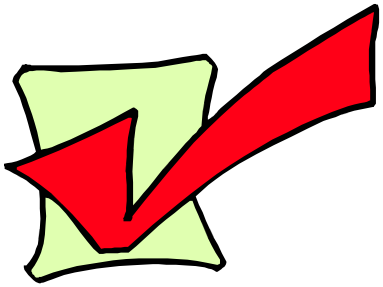
[1] Includes light rail costs of approximately $150 - $200 million through the BIA

Transit Operations Funding



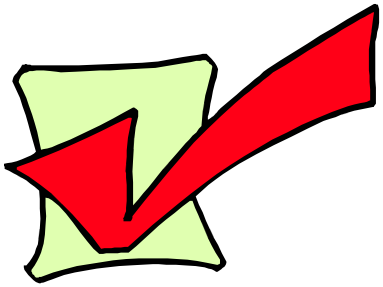
- To be fully effective, freeway and light rail investments must be supported by a significant increase in transit service.
- Additional transit service is needed to:
  - Bring transit riders to the light rail loop
  - Reduce reliance on the freeway system through transportation demand management actions

- The region must have a focused effort to determine how to meet goals for increased transit service.
- Successful implementation of the draft recommendations requires a significant increase in transit operating revenue.



Working Draft Recommendations

- The I-5 Partners should seek funding to widen I-5 to 3 lanes between Delta Park and Lombard.
  - This project will be ready for construction within 2 years.
- OR, WA and the Portland/Vancouver region should develop a financing plan for transit and highway capital projects
  - Starting point is to look at the “promising” financing tools



Working Draft Recommendations - Cont.

- Tri-Met and C-Tran need to increase revenues for a significant expansion of transit service, starting within the next five years.
- Tri-Met and C-Tran efforts to increase transit operating revenue should be coordinated with the new Bi-State Coordinating Committee.
- The Bi-State Coordinating Committee should establish regional transit financing commitments that will allow for:
    - an aggressive bi-state TDM program and
    - an expansion of transit service to support construction of the light rail loop.

Freight and Passenger Rail

Freight Rail/Passenger Rail

- What are the needs of the freight and passenger rail system?
- What is the viability of commuter rail in the corridor?
  - Is there new data on Commuter rail that would indicate that it could be more viable than previous studies indicated?

The Rail System Today

- Two transcontinental railroads
  - Union Pacific (UP)
  - Burlington Northern/ Santa Fe (BNSF)
- Amtrak service
- Several switching railroads and shortlines

The Rail System Today - Continued

- The region contains five major rail yards, and numerous lesser yards and port terminals.
- The region's rail system serves the state's largest collection of industrial customers.
- The region's rail system accesses a major deep draft ocean port.

Summary Findings

- The system is saturated:
  - Significant congestion slows freight trains
  - Less impact on passenger trains
  - Narrow corridors restrict alternatives
  - Large number of local and yard trains necessary to serve area industry also increase congestion
- Congestion affects long term commercial viability
- To make it viable, performance must be improved
- Improved capacity must accommodate future growth

Commuter Rail

Commuter Rail

Commuter Rail

Next Steps….Staying Involved

Next Steps

May 2002:

- Public feedback on “additional work” options

- Task Force adopts draft recommendations:
  3:30 -7:30 p.m.
  Luepke Center
  1009 McLoughlin, Vancouver, WA

June 2002:

- Public review of final draft recommendations
- Task Force adopts final recommendations and strategic plan

Next Steps - Continued

Post 2002:

- Review by bi-state and regional transportation authorities
- Adoption into regional transportation plans
- Environmental impact studies on any major improvements recommended

Talk to the Task Force

Get Your Questions Answered

Tentative I-5 Project Schedule