

Transportation Performance Overview

Portland/Vancouver
I-5 Transportation
and Trade Partnership

October 23, 2001
Task Force Meeting



Option Packages Evaluated

- Existing Conditions (2000)
- No Build
- Baseline
- West Arterial
- Express Bus/3 Lanes
- LRT/3 Lanes
- Express Bus/4 Lanes
- LRT/4 Lanes

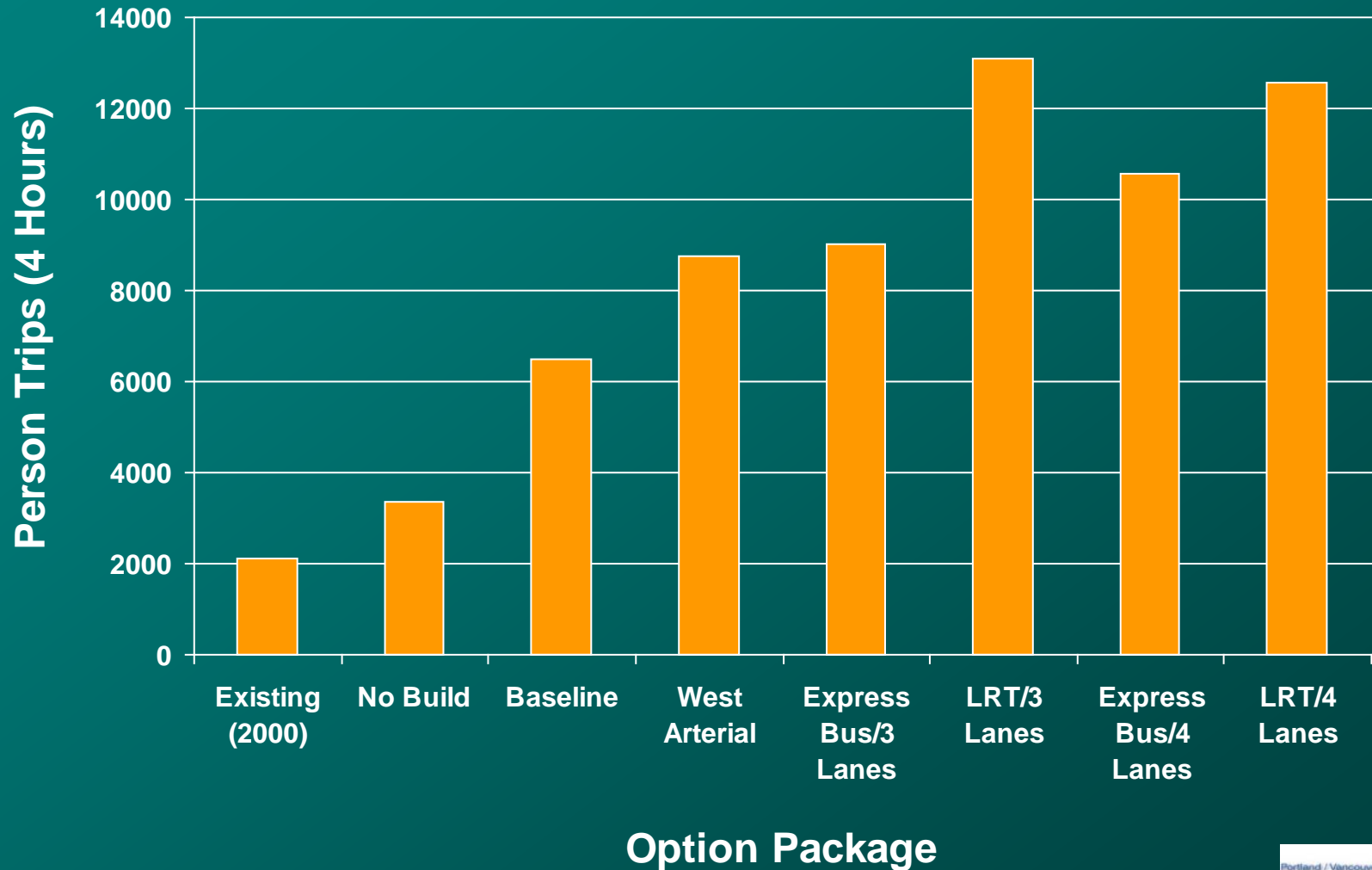
Methodology

- Correlated evaluation measures with model's available output
- "Built" networks for each option package: highway, transit, land use
- Modeled option packages and reviewed system and corridor results

Quiz: Match Each Item's Estimated Increase Over the Next 20 Years

- | | |
|---------------------------|--------|
| 1. Four-county population | A. 30% |
| 2. Employment | B. 40% |
| 3. Regional truck trips | C. 50% |

Transit Trips Across the Columbia River



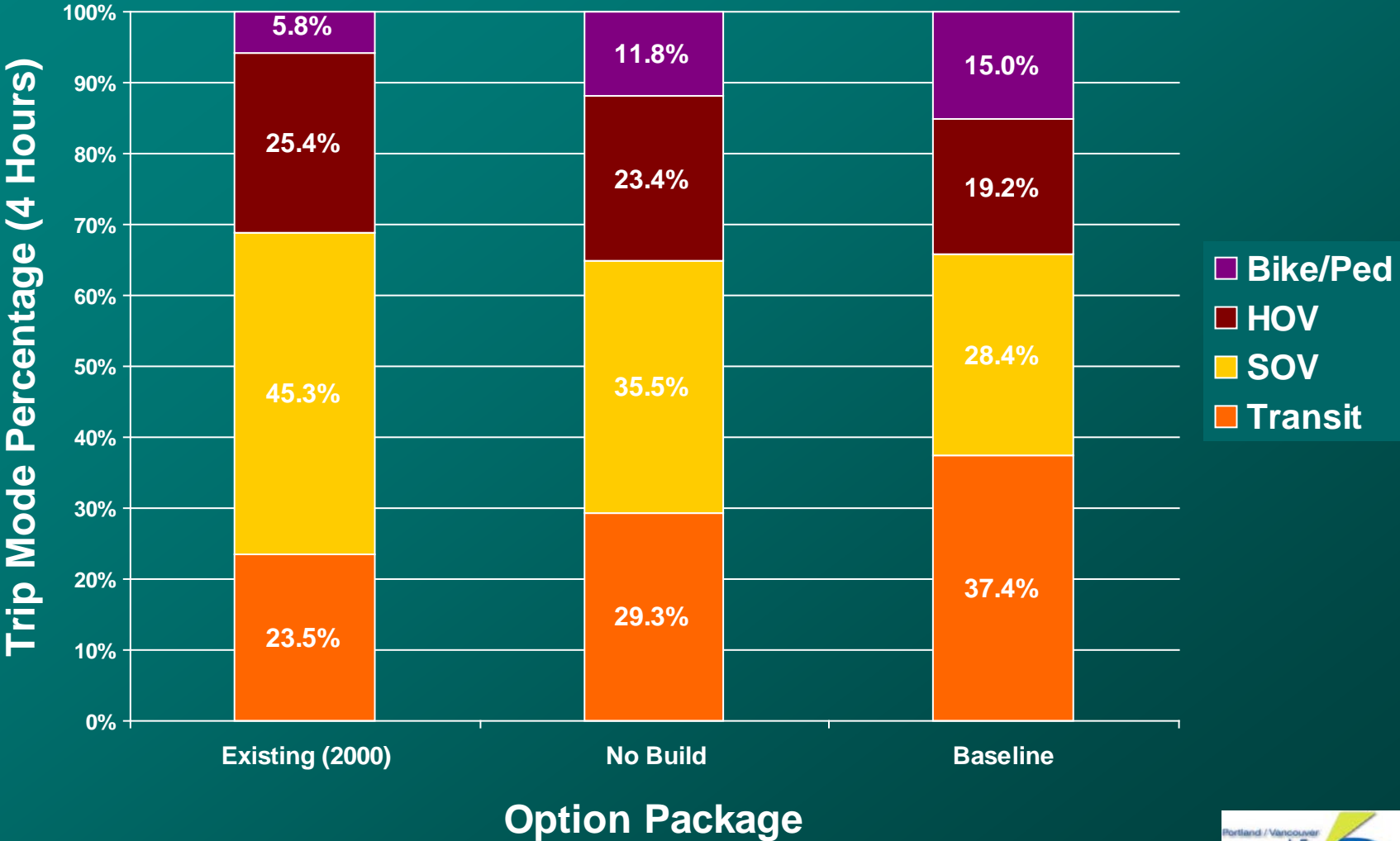
A

Trip Mode from Downtown Portland



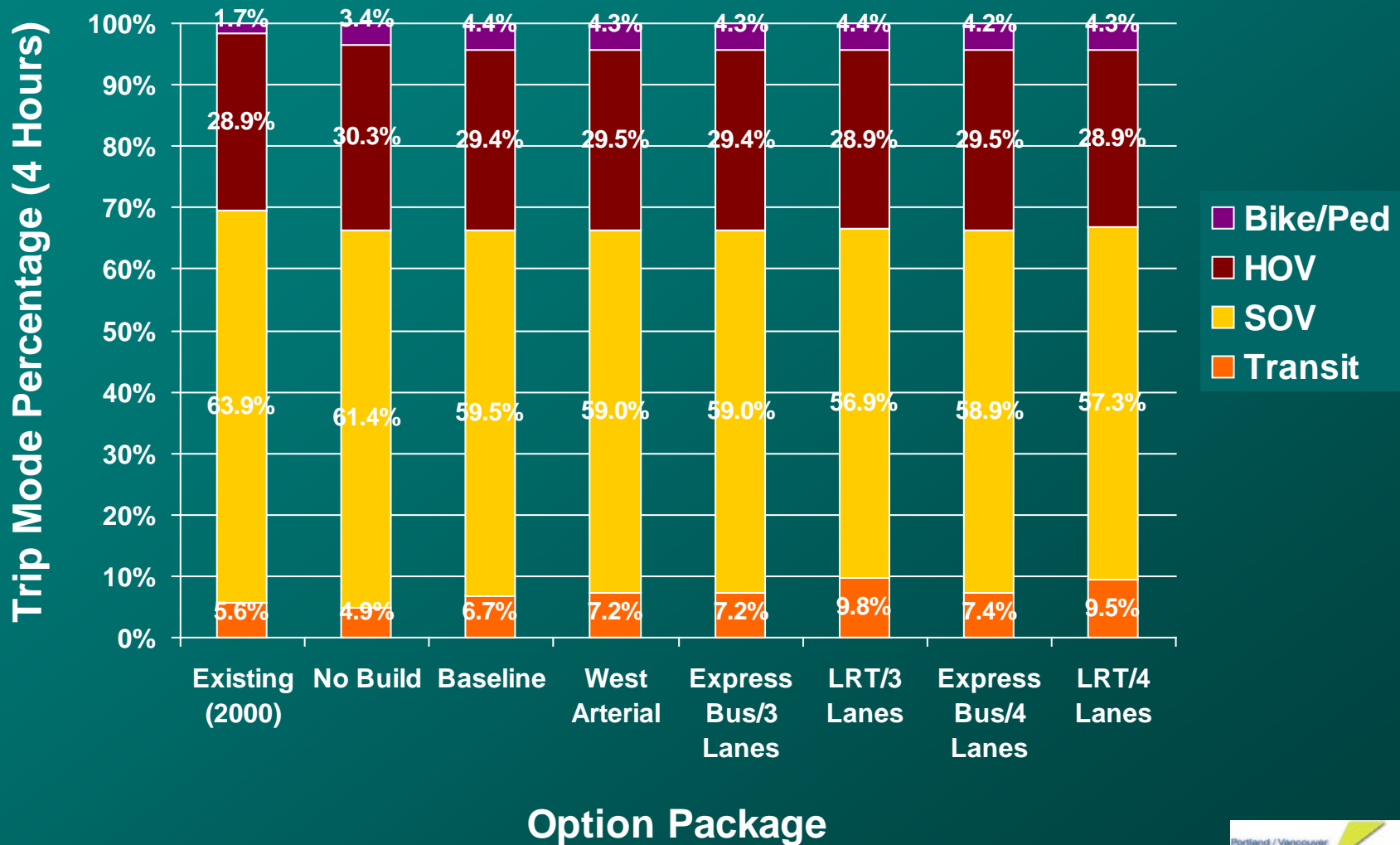
B

Trip Mode from Downtown Portland

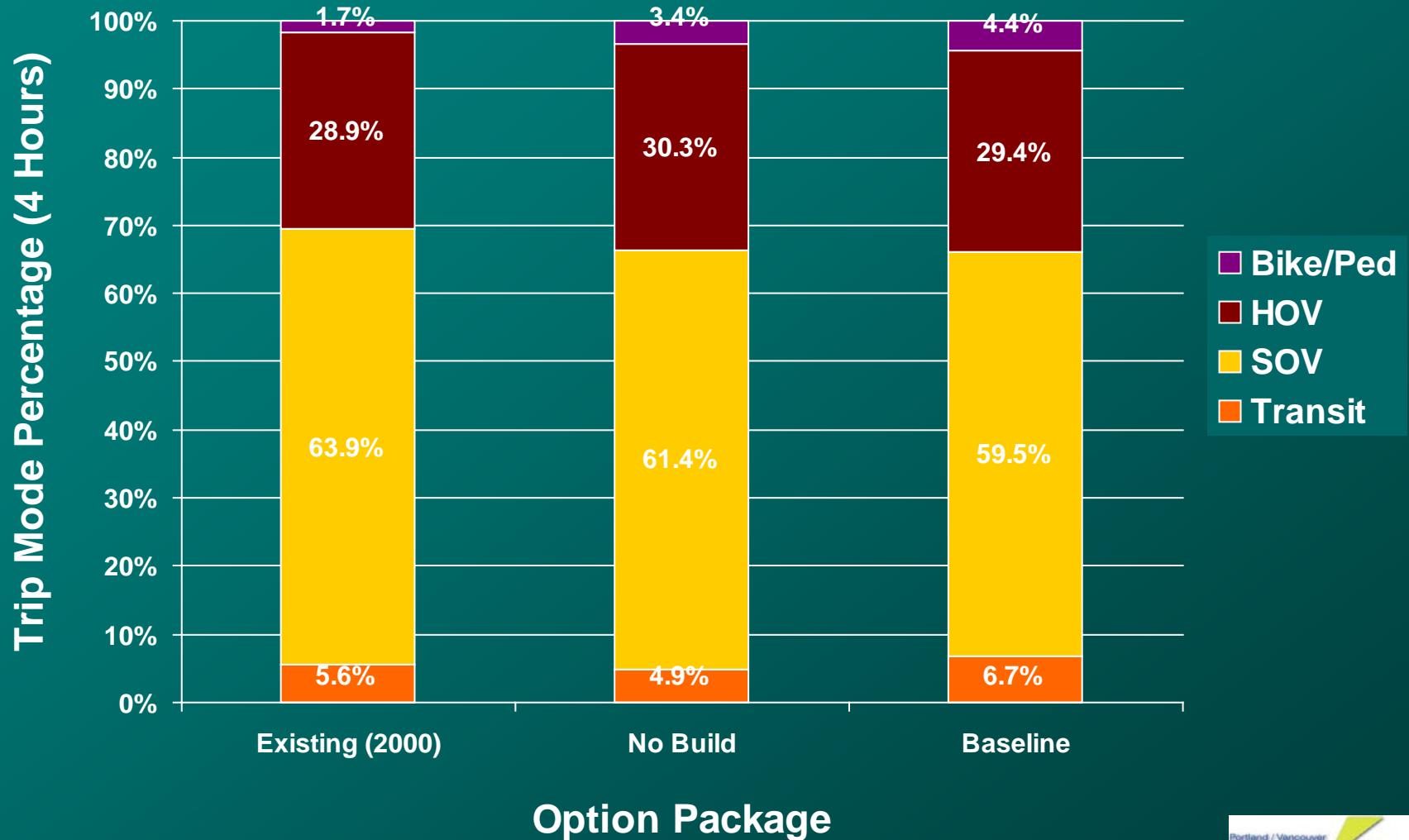


B

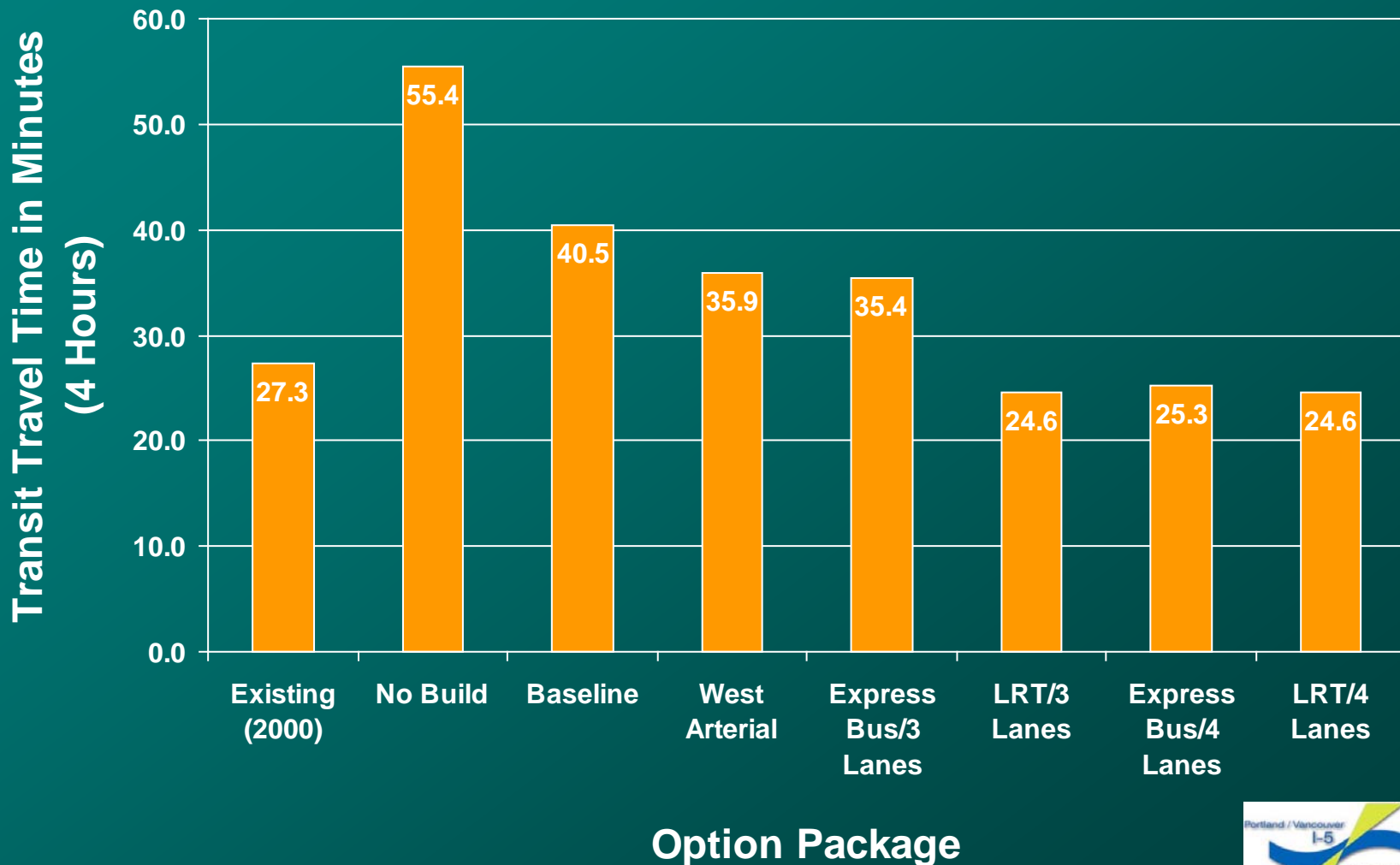
Trip Mode from Downtown Vancouver



Trip Mode from Downtown Vancouver



Transit Travel Time from Portland CBD to Vancouver CBD



D

Peak Direction Traffic Volumes Across the Columbia River



Peak Direction Traffic Volumes Across the Columbia River



E, F & G

I-5 (Exist.)

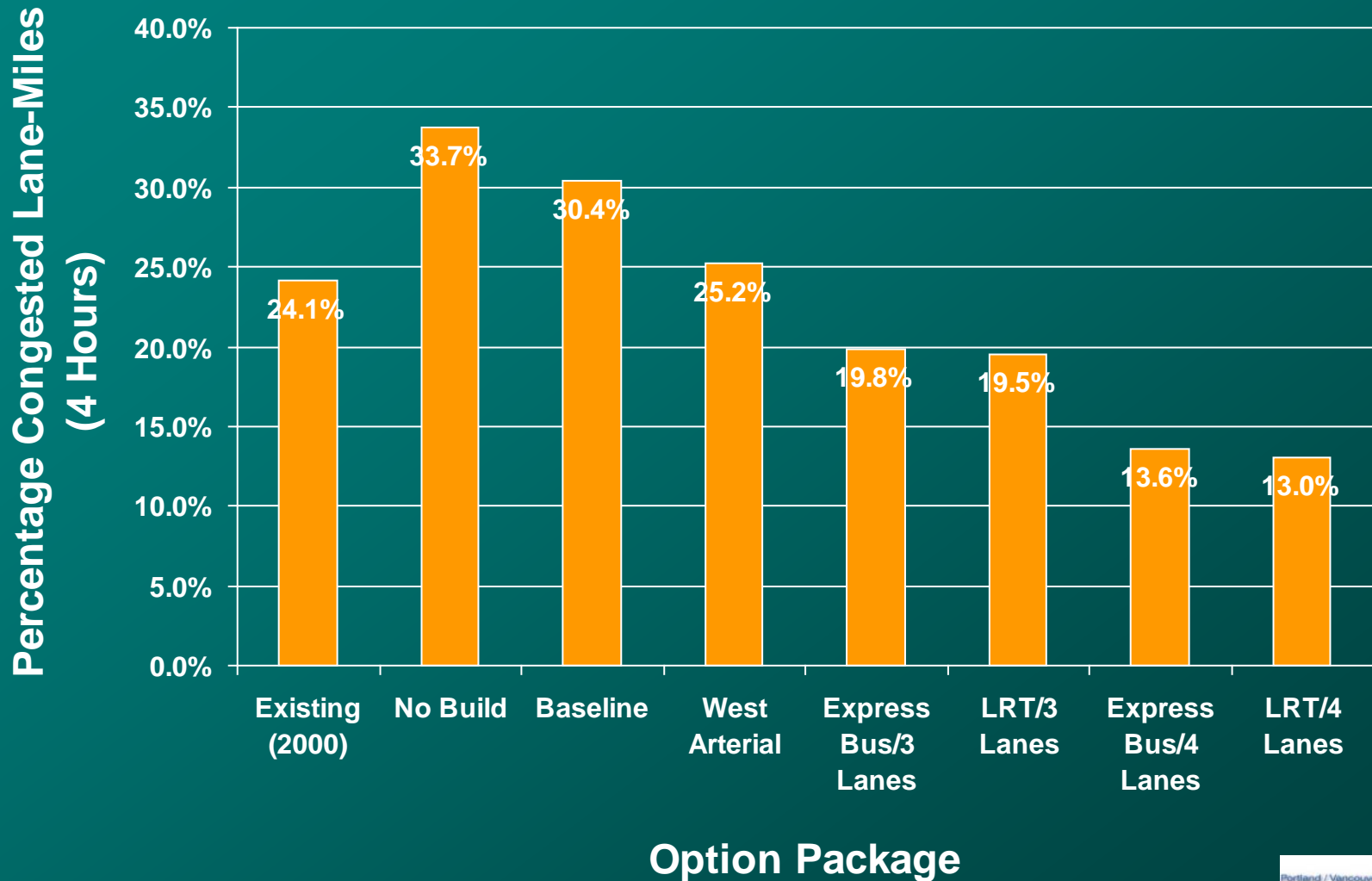
Option Package

Supplemental

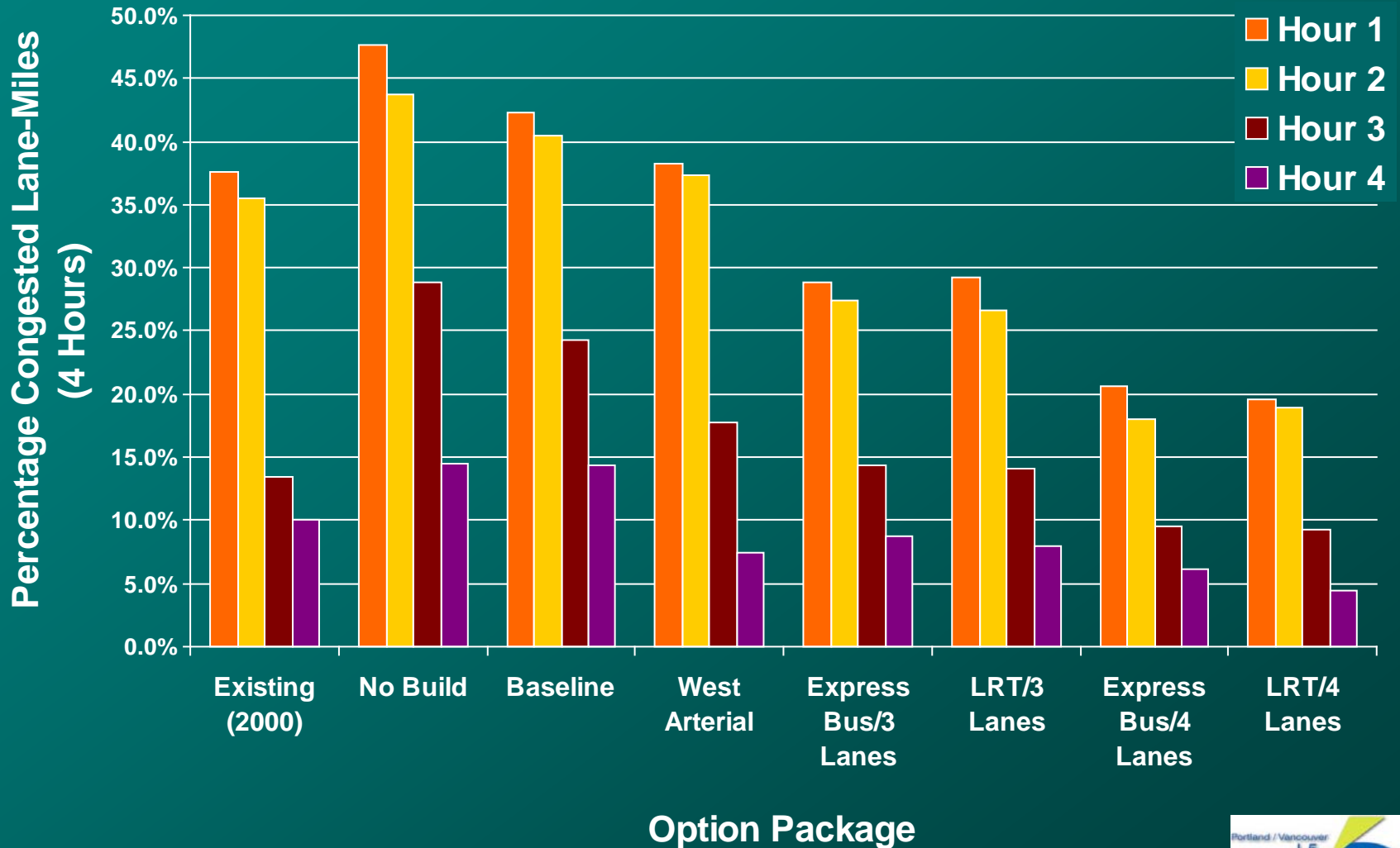
I-205 Bridge



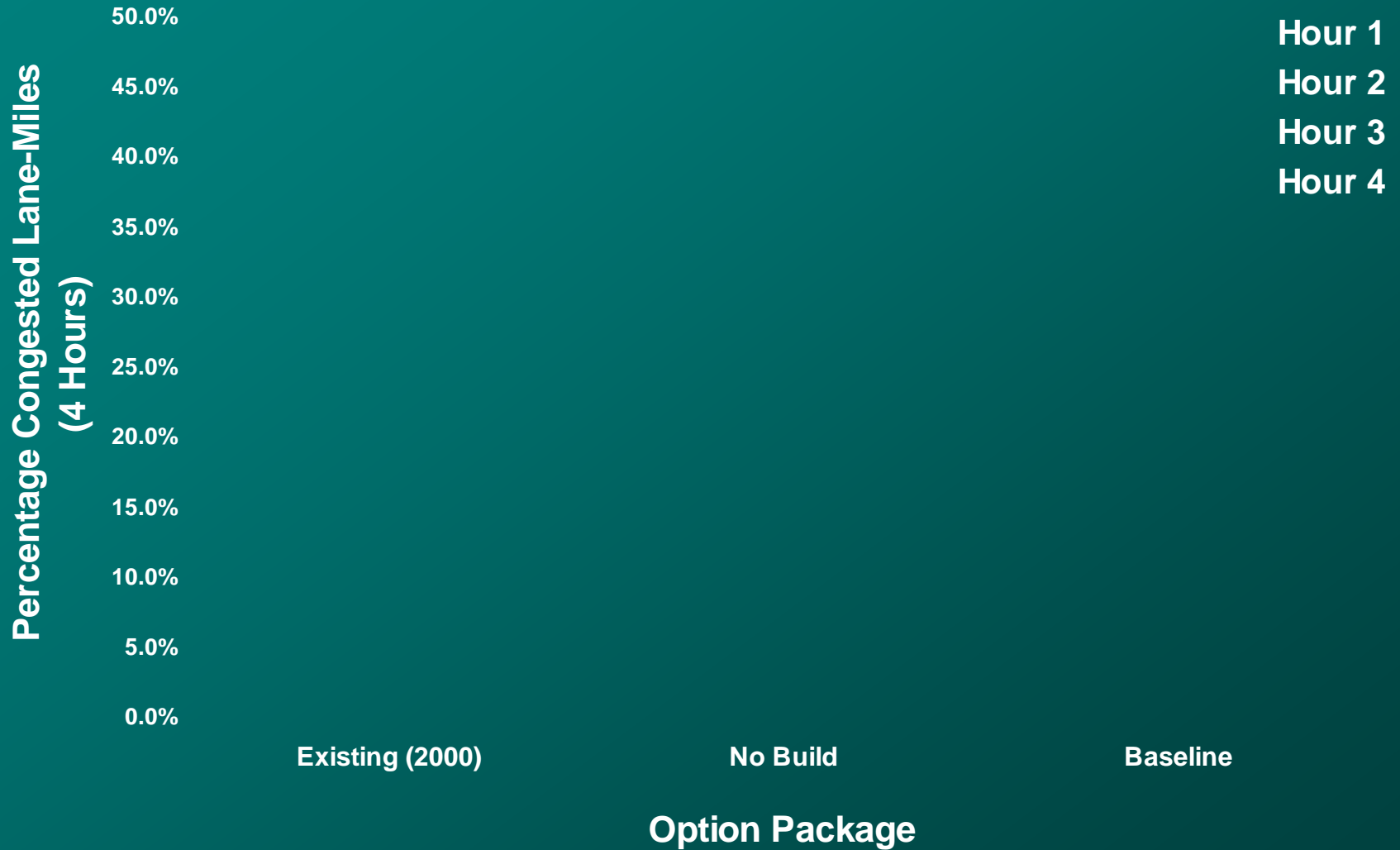
Congested Lane-Miles on I-5 and I-205



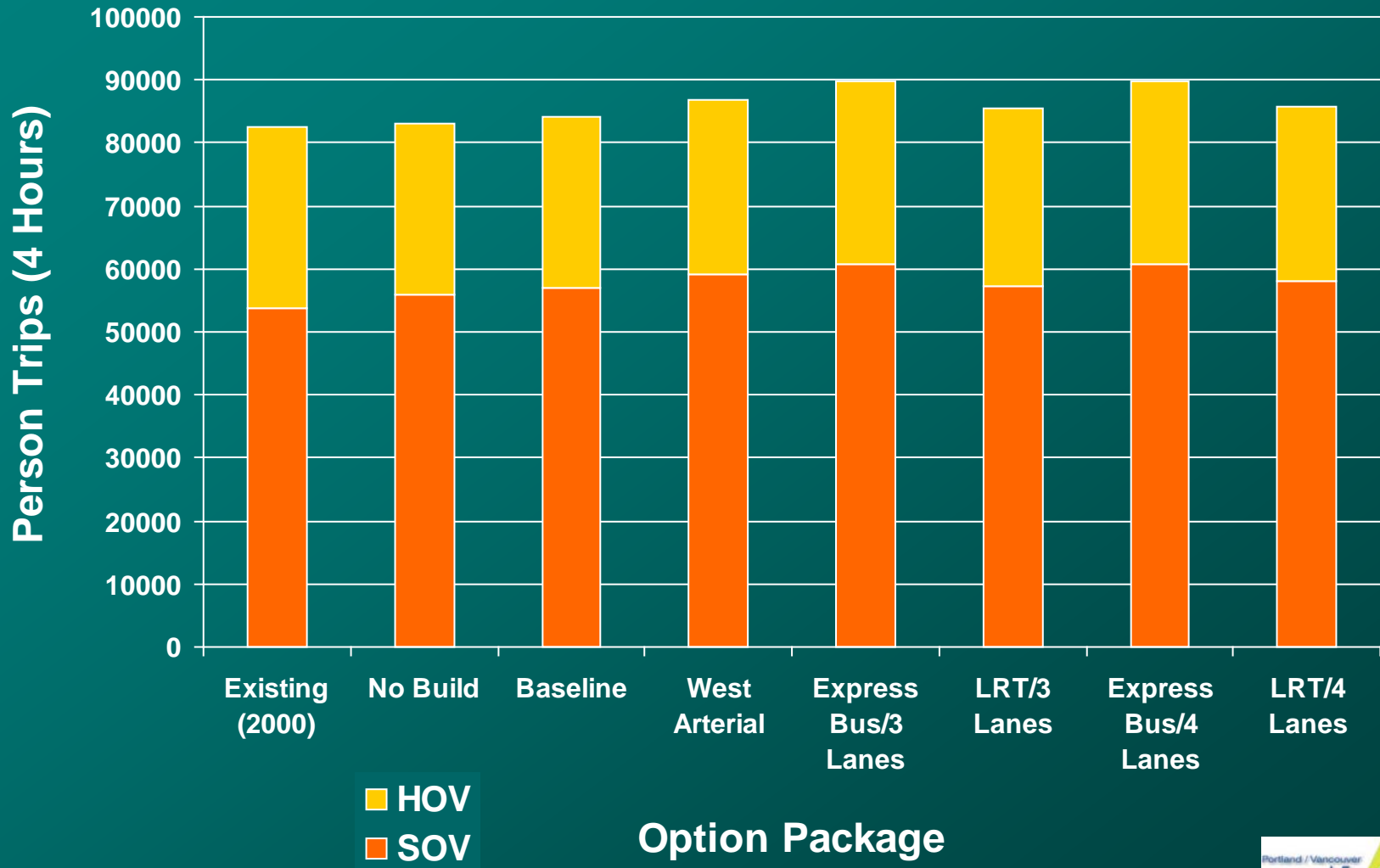
Congested Lane-Miles on I-5 and I-205



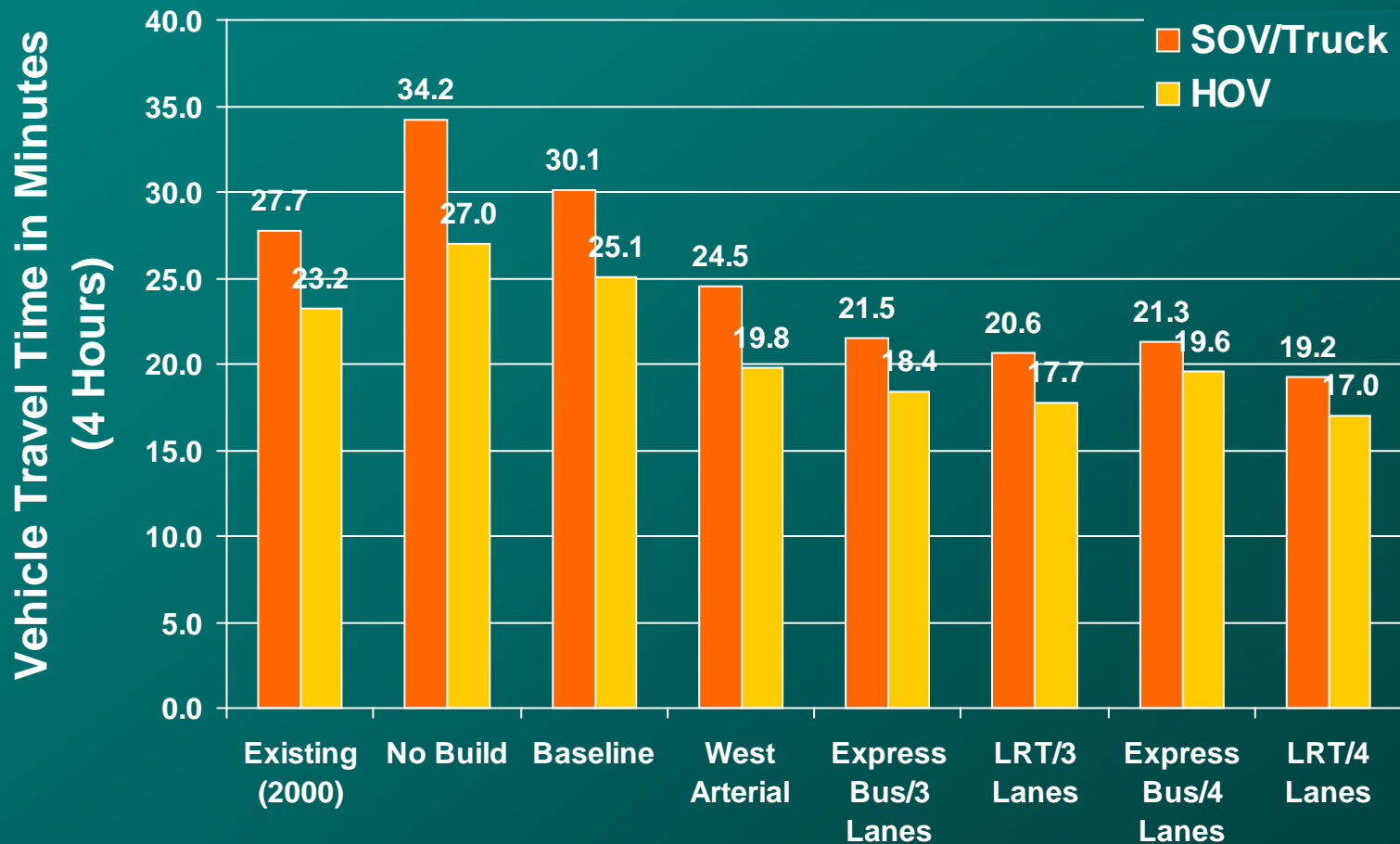
Congested Lane-Miles on I-5 and I-205



Vehicle Trips Across the Columbia River



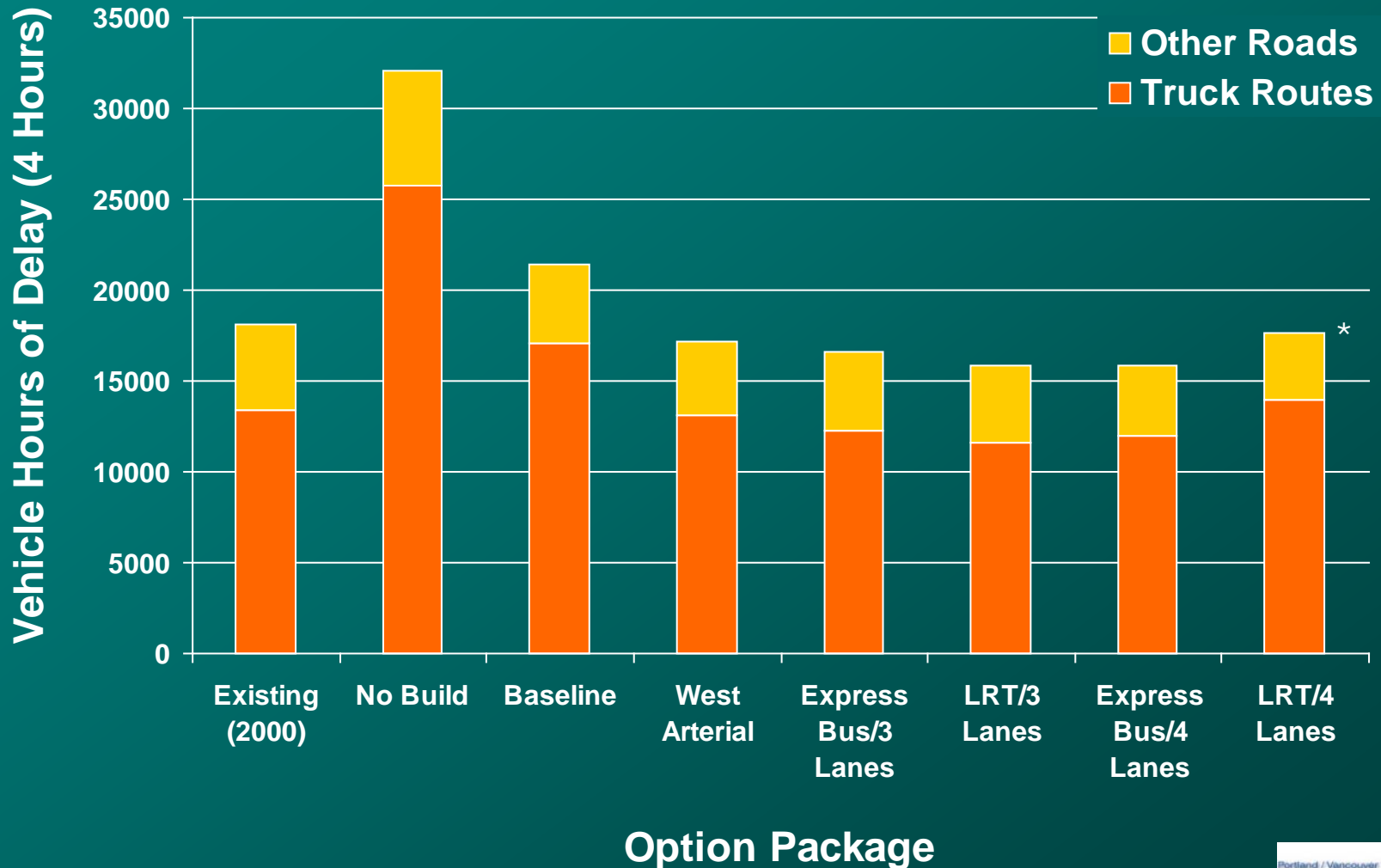
Auto/Truck & HOV Travel Times from Portland CBD to Vancouver CBD



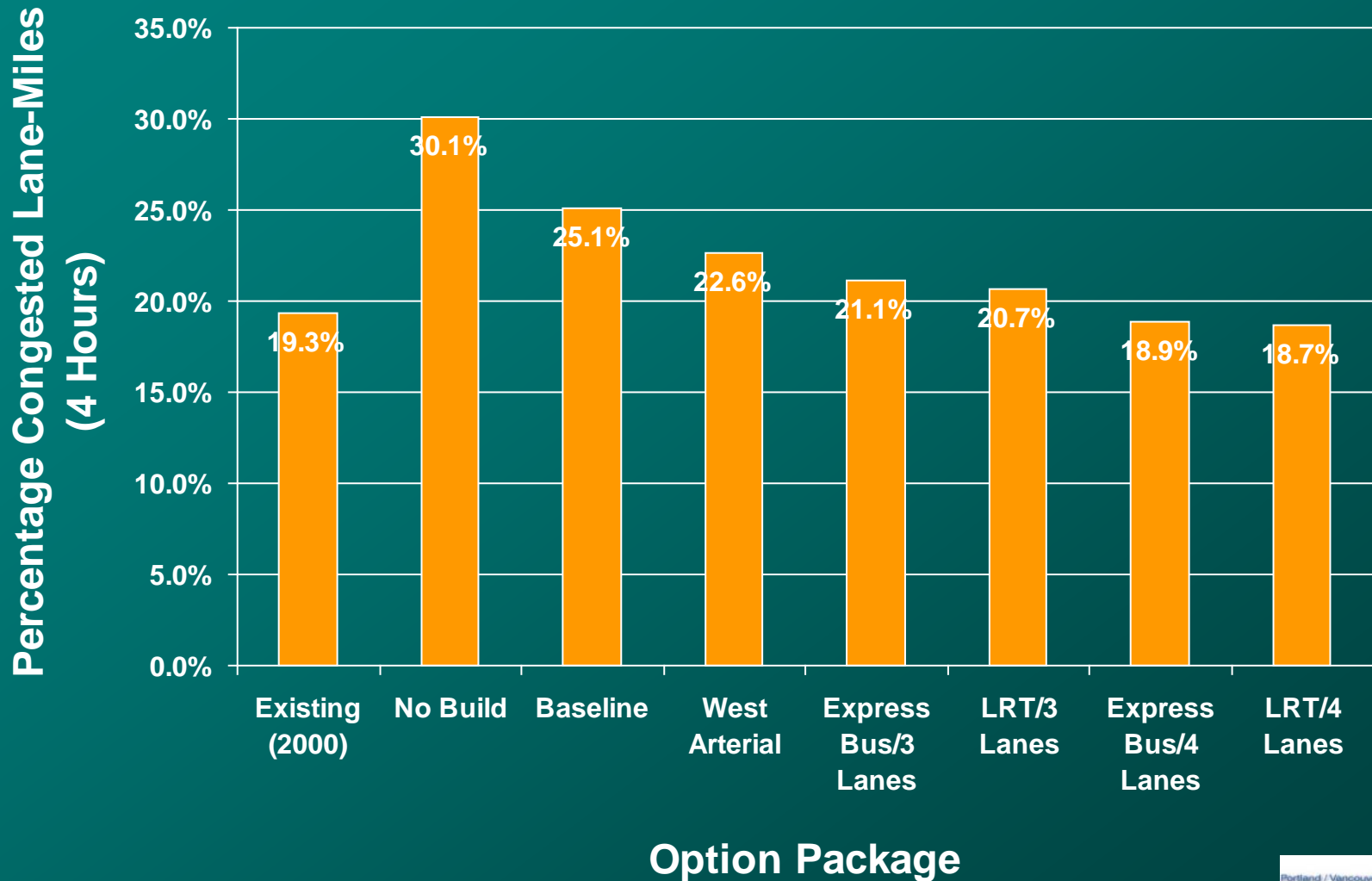
Study Area Limits



Vehicle Hours of Delay in the Study Area

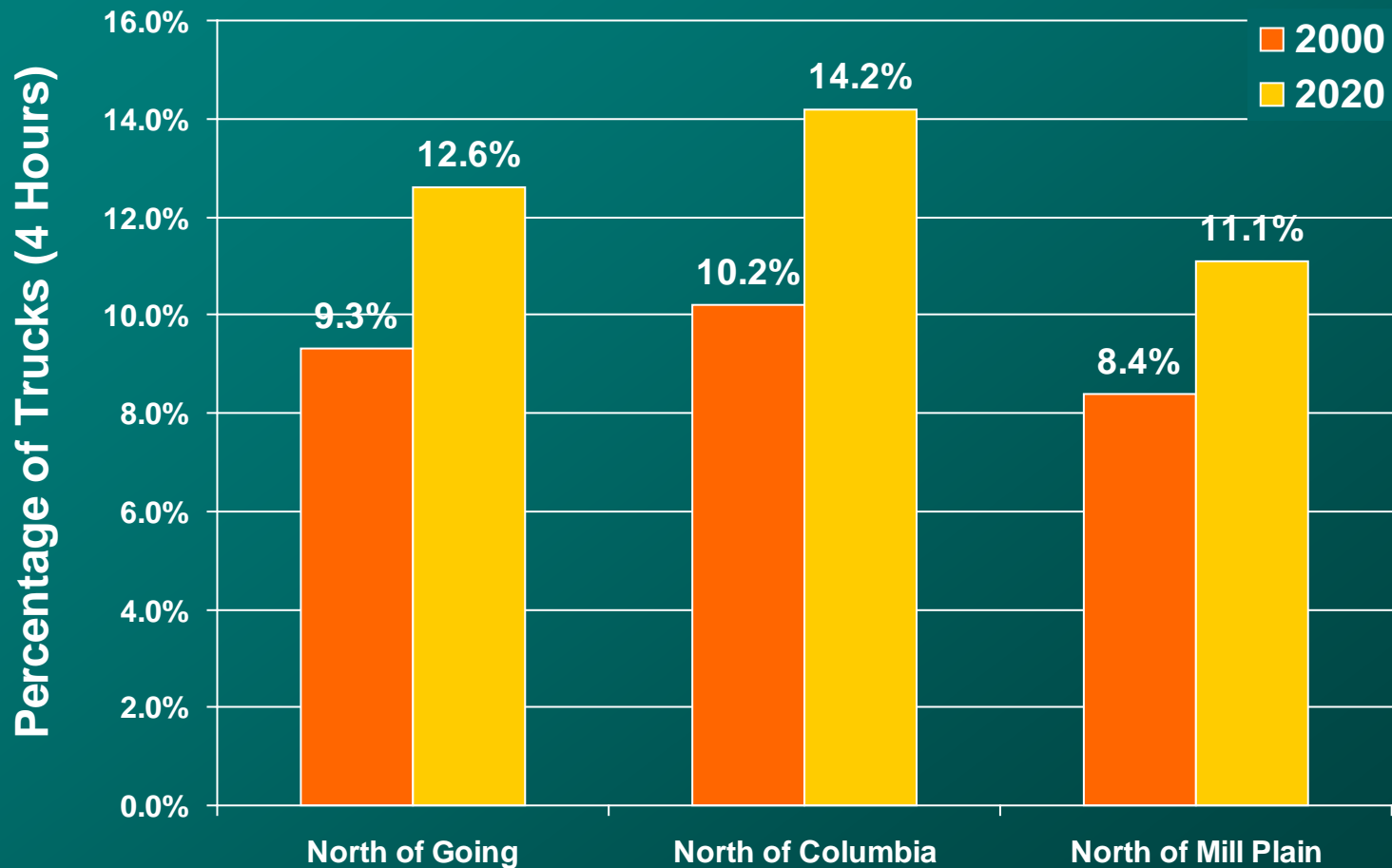


Congested Lane-Miles on Truck Routes



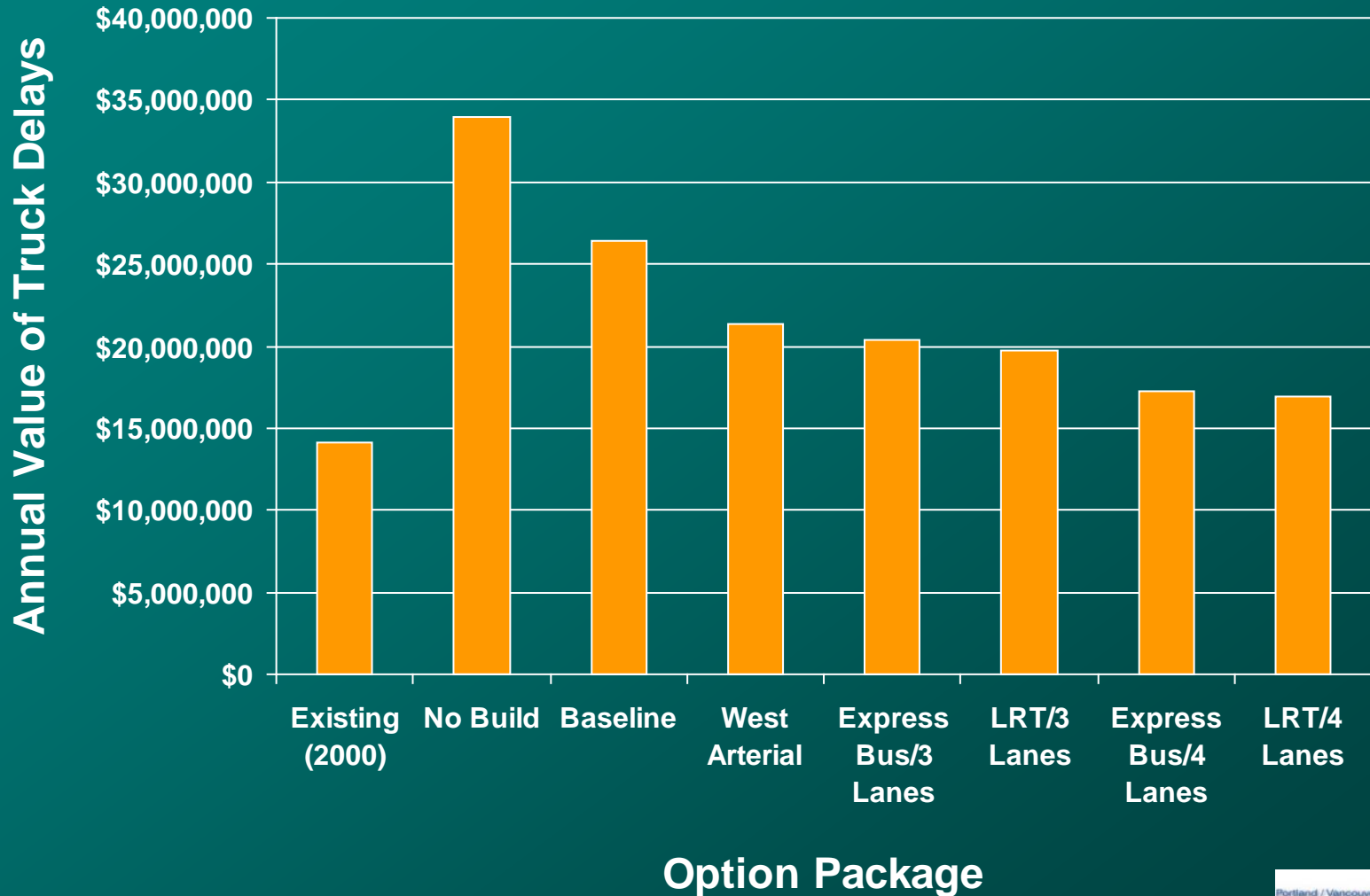
N

Truck Volume Growth Along I-5 Corridor



Option Package

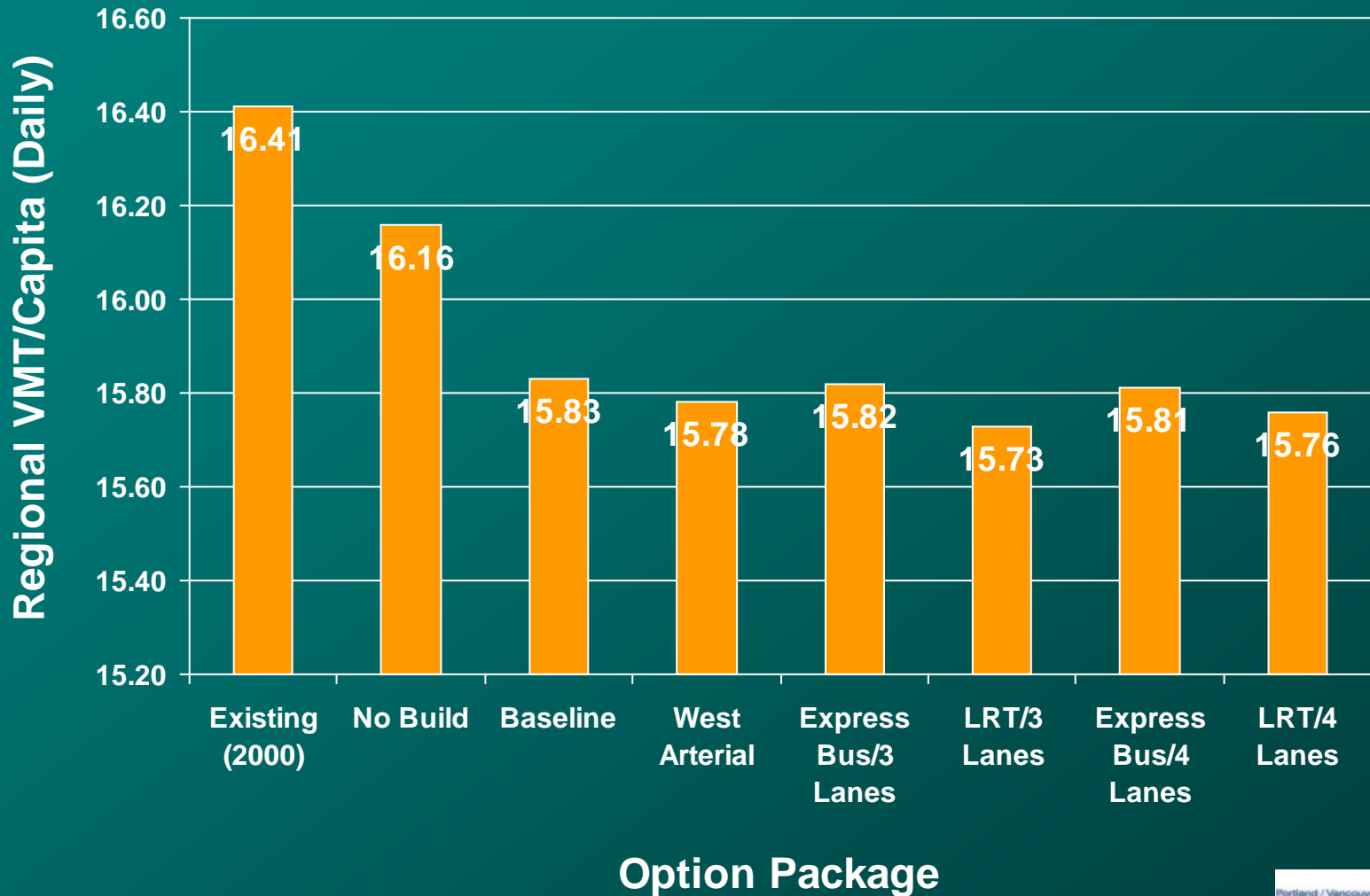
Value of Truck Hours of Delay in the Study Area



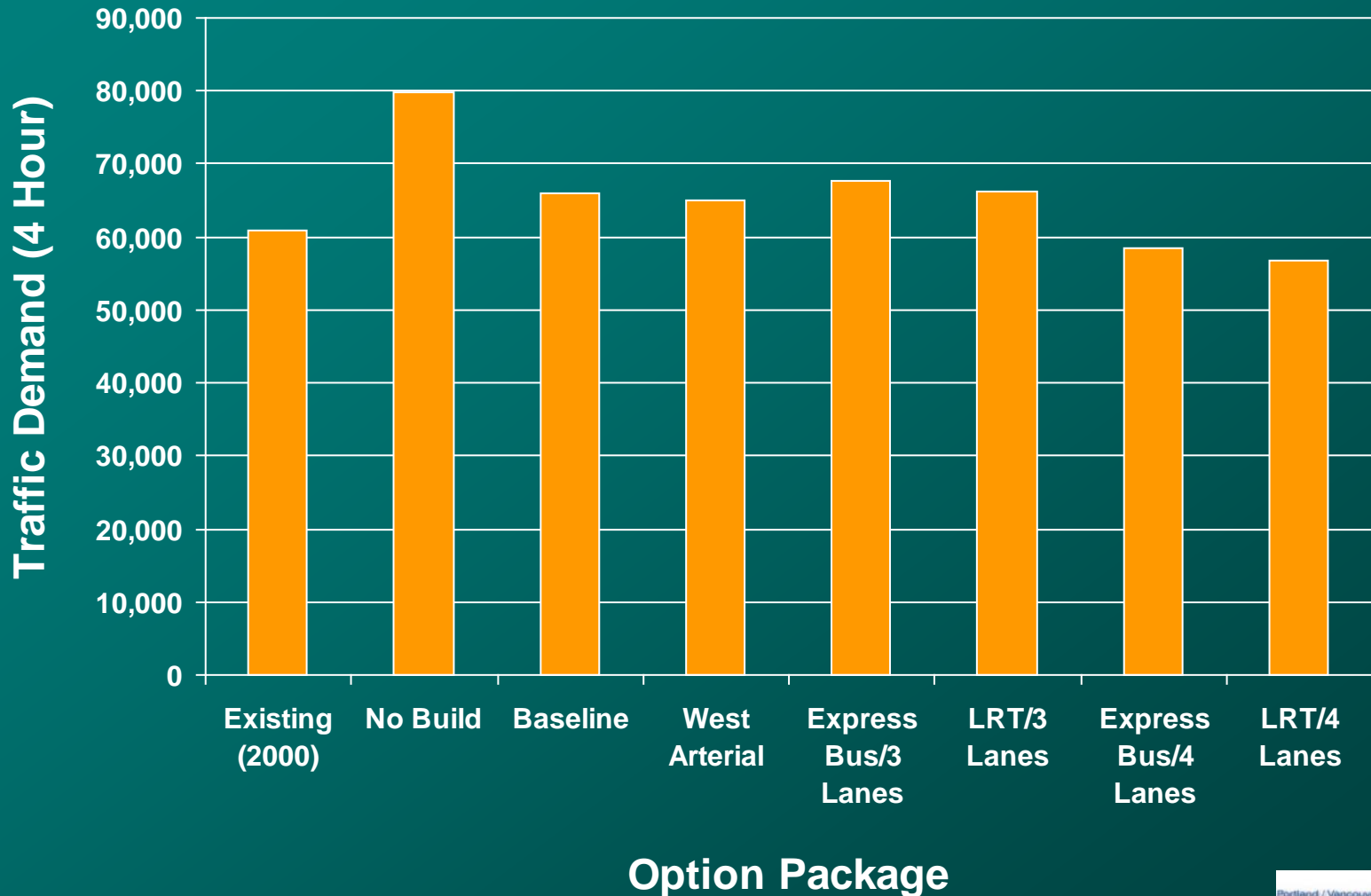
Regional Vehicle Miles Traveled (VMT)



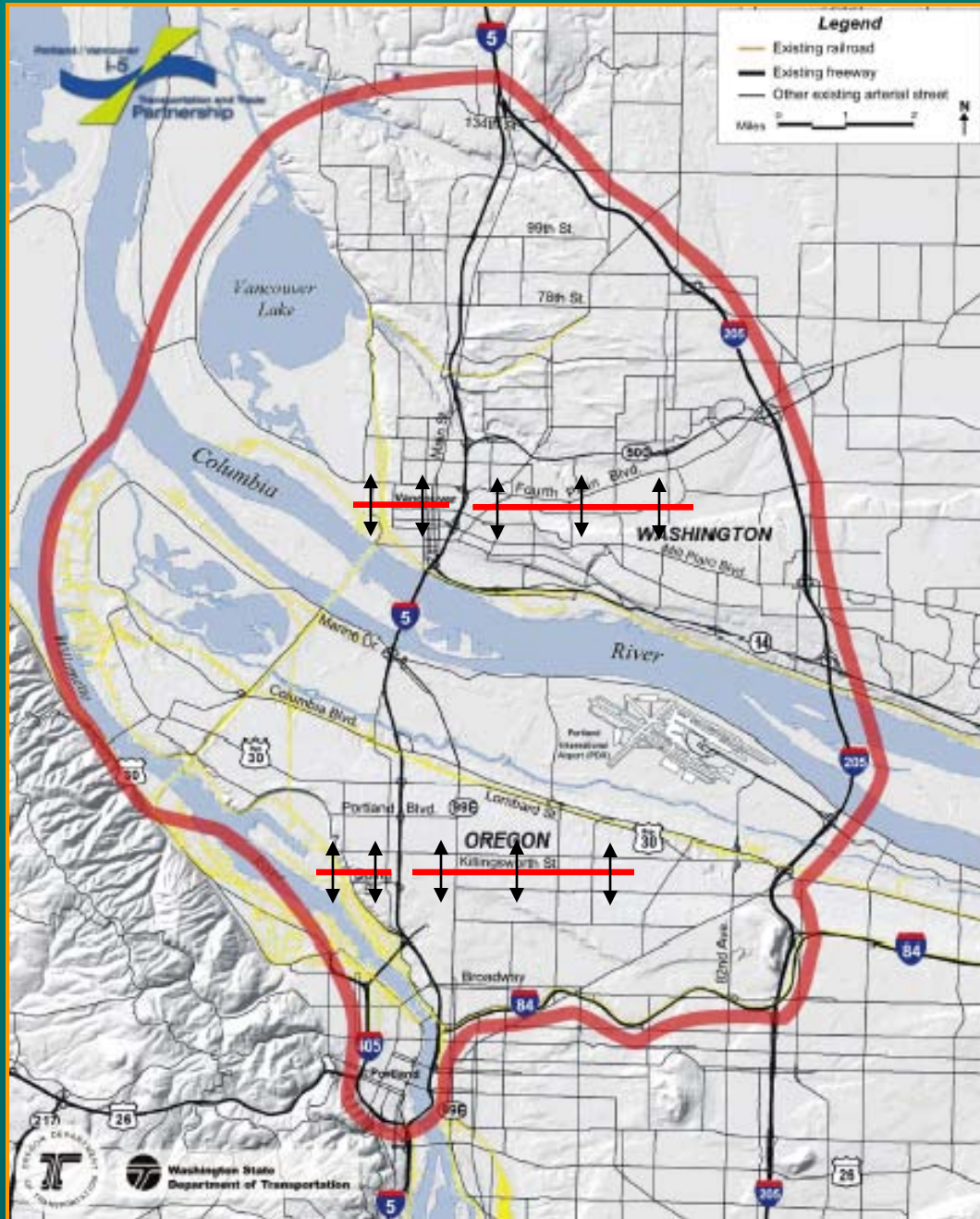
Regional VMT per Capita



Traffic on Portland Arterial Roadways Parallel to I-5*

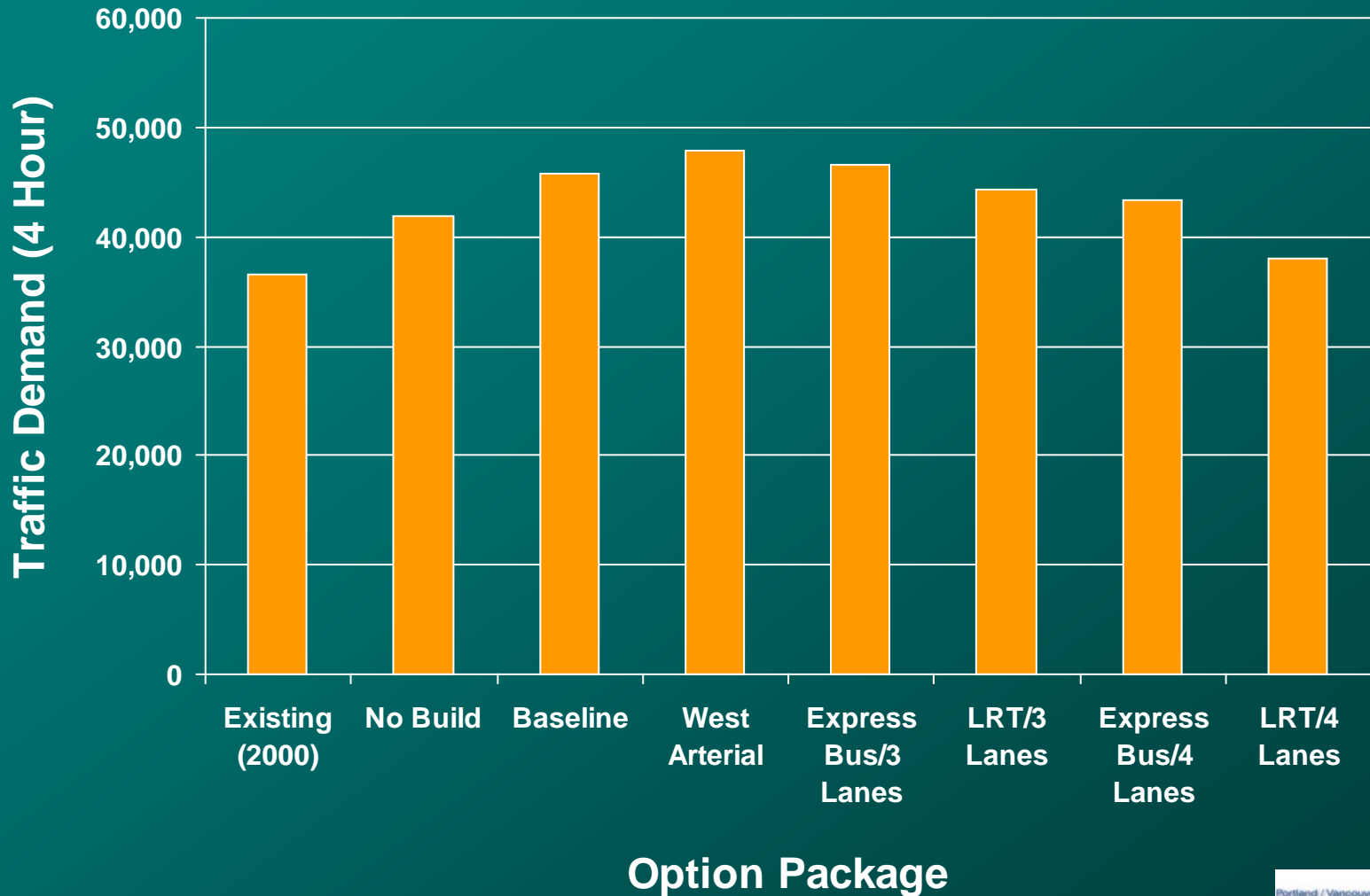


* North of Going/Prescott



“Screenlines”

Traffic on Vancouver Arterial Roadways Parallel to I-5*



Decision 1

Will the West Arterial Road, by itself, satisfy the Problem, Vision and Values Statement?

Peak Direction Traffic Volumes Across the Columbia River



E, F & G

I-5 (Exist.)

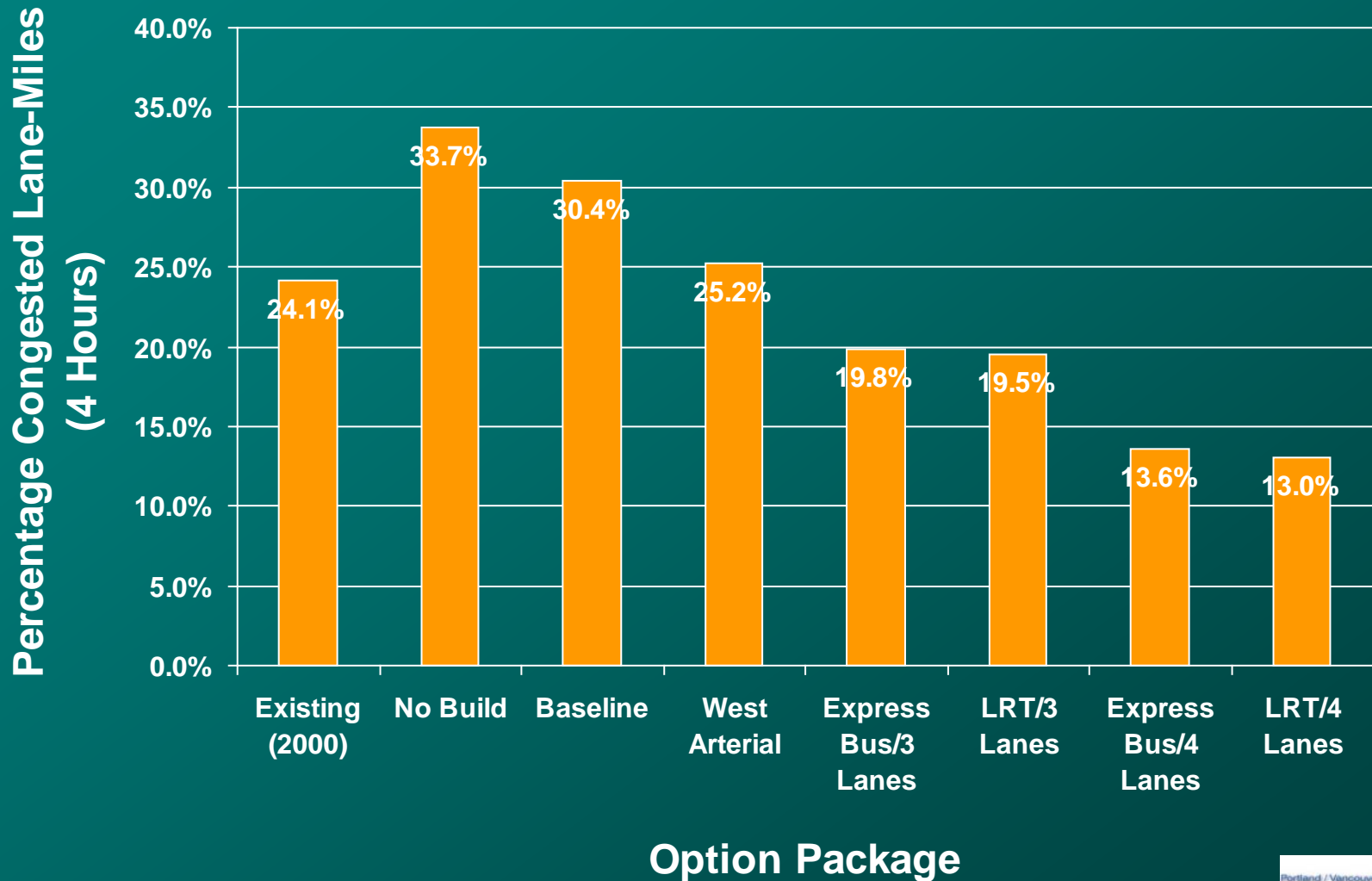
Option Package

Supplemental

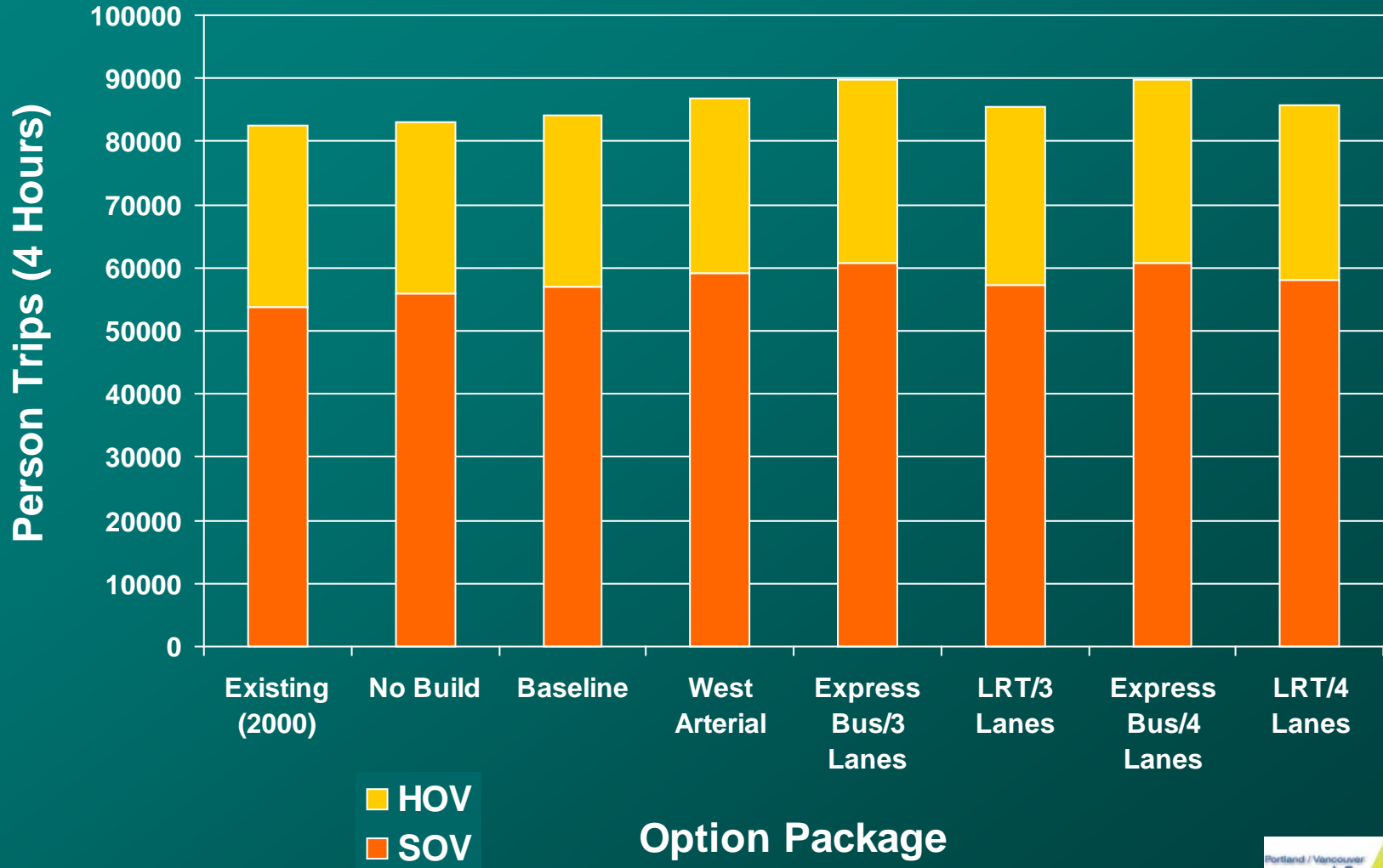
I-205 Bridge



Congested Lane-Miles on I-5 and I-205



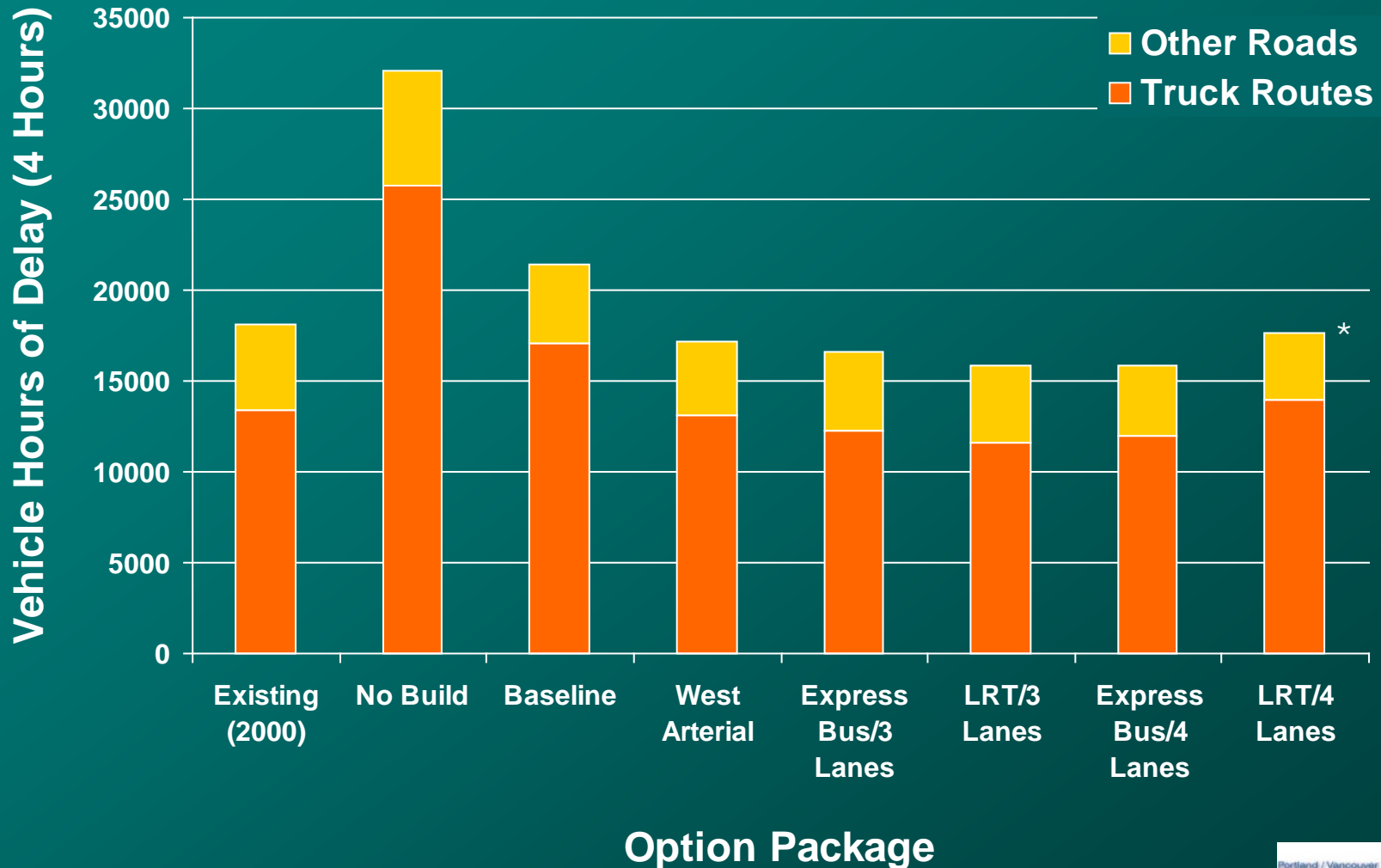
Vehicle Trips Across the Columbia River



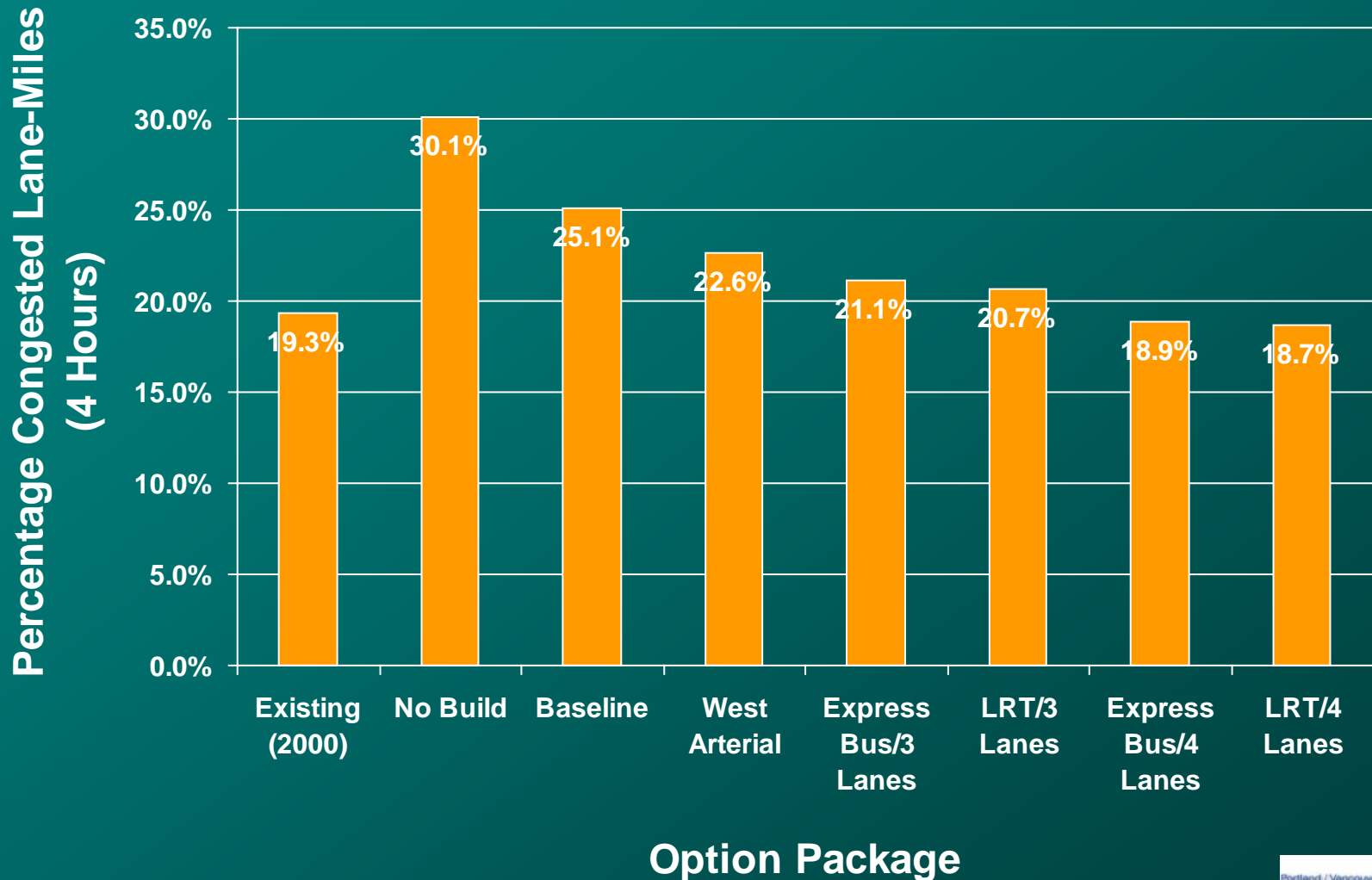
Auto/Truck & HOV Travel Times from Portland CBD to Vancouver CBD



Vehicle Hours of Delay in the Study Area



Congested Lane-Miles on Truck Routes

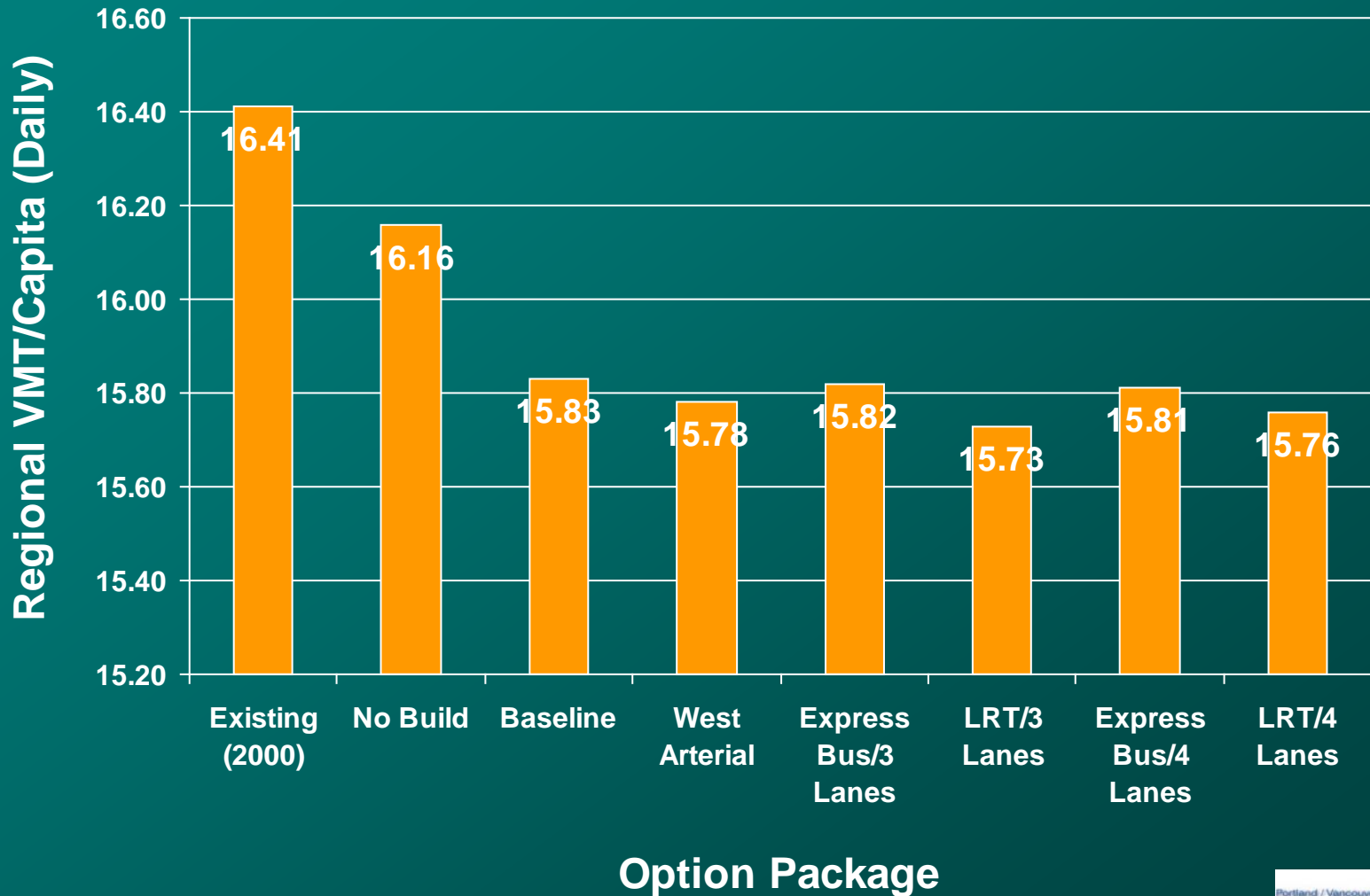


N

Regional Vehicle Miles Traveled (VMT)



Regional VMT per Capita



Traffic on Portland Arterial Roadways Parallel to I-5*



Q

* North of Going/Prescott



Traffic on Vancouver Arterial Roadways Parallel to I-5*



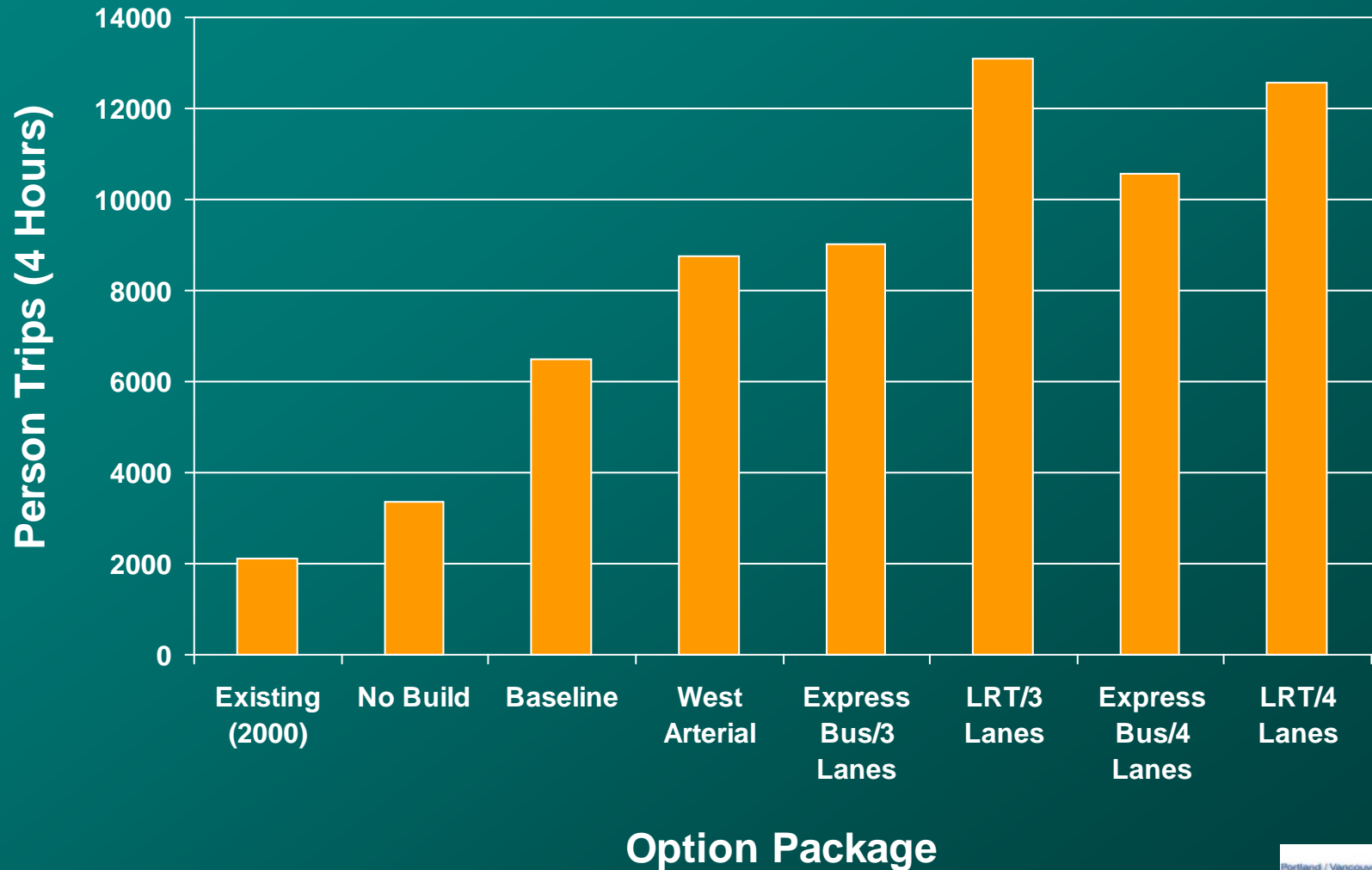
Decision 2

Will Commuter Rail, by itself, satisfy the Problem, Vision and Values Statement?

Decision 3

What type of overall transit improvements best satisfy the Problem, Vision and Values Statement?

Transit Trips Across the Columbia River



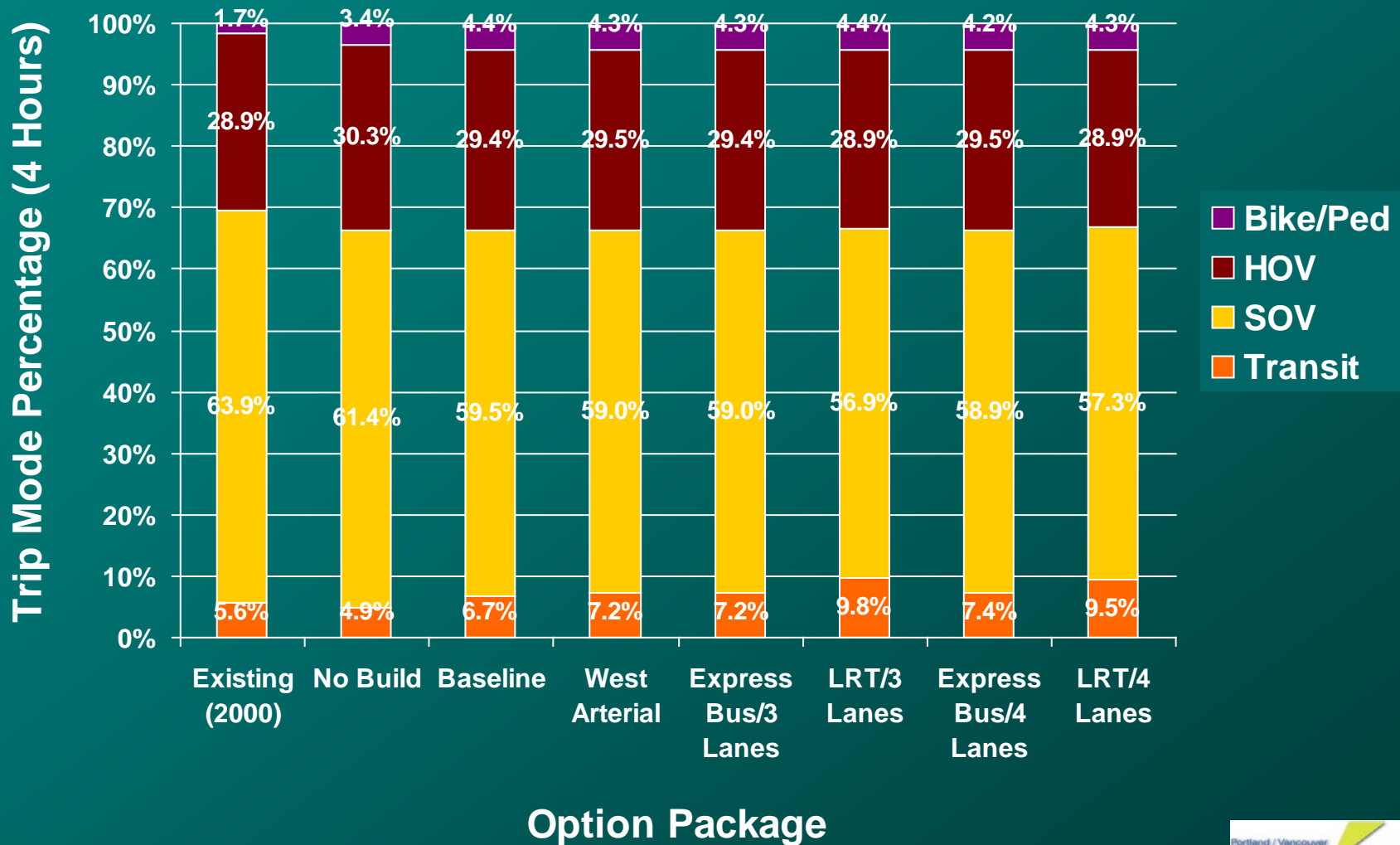
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Trip Mode from Downtown Portland



B

Trip Mode from Downtown Vancouver

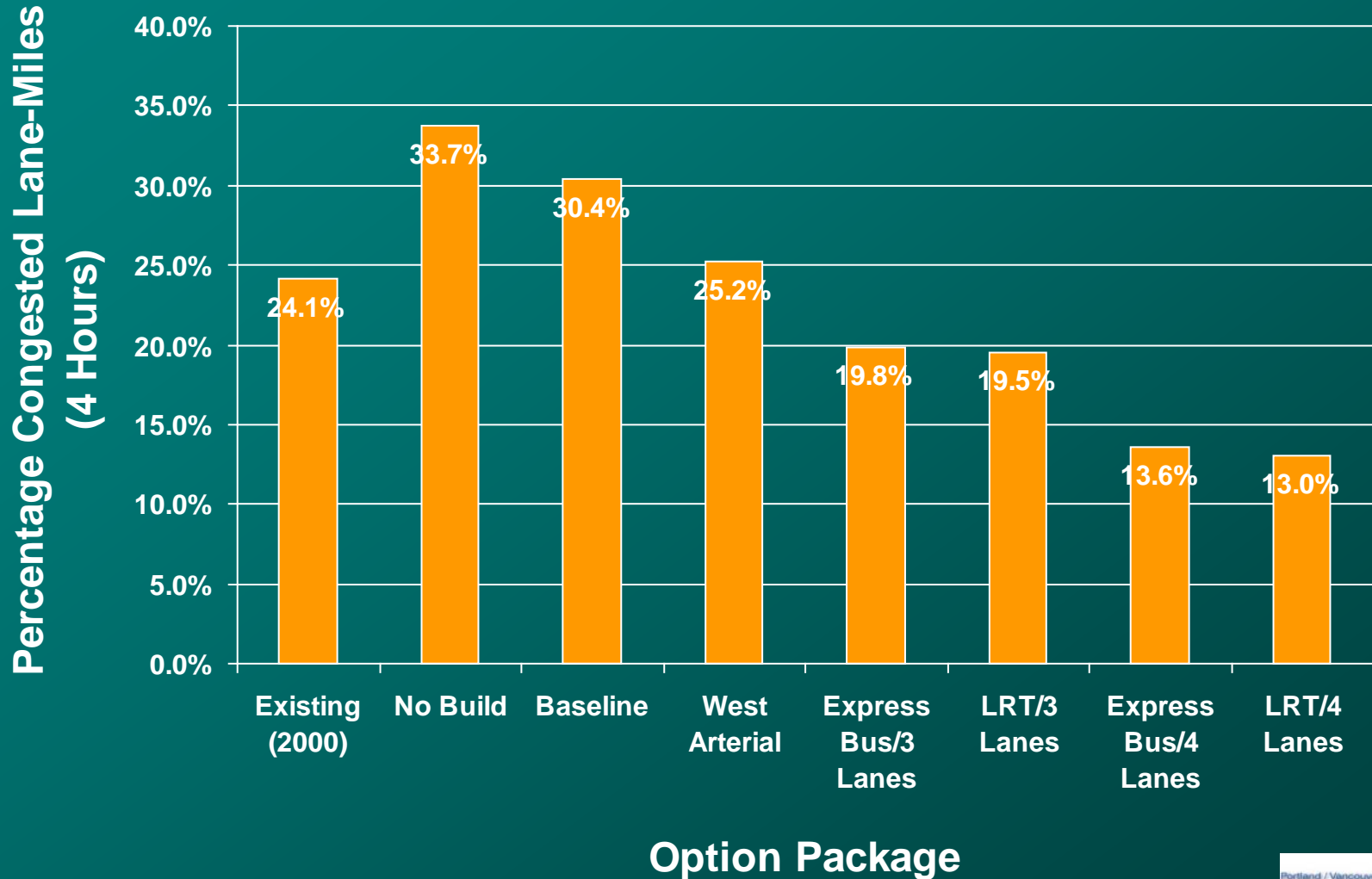


Transit Travel Time from Portland CBD to Vancouver CBD



D

Congested Lane-Miles on I-5 and I-205



Decision 4

What type of overall road improvements best satisfy the Problem, Vision and Values Statement?

Peak Direction Traffic Volumes Across the Columbia River



E, F & G

I-5 (Exist.)

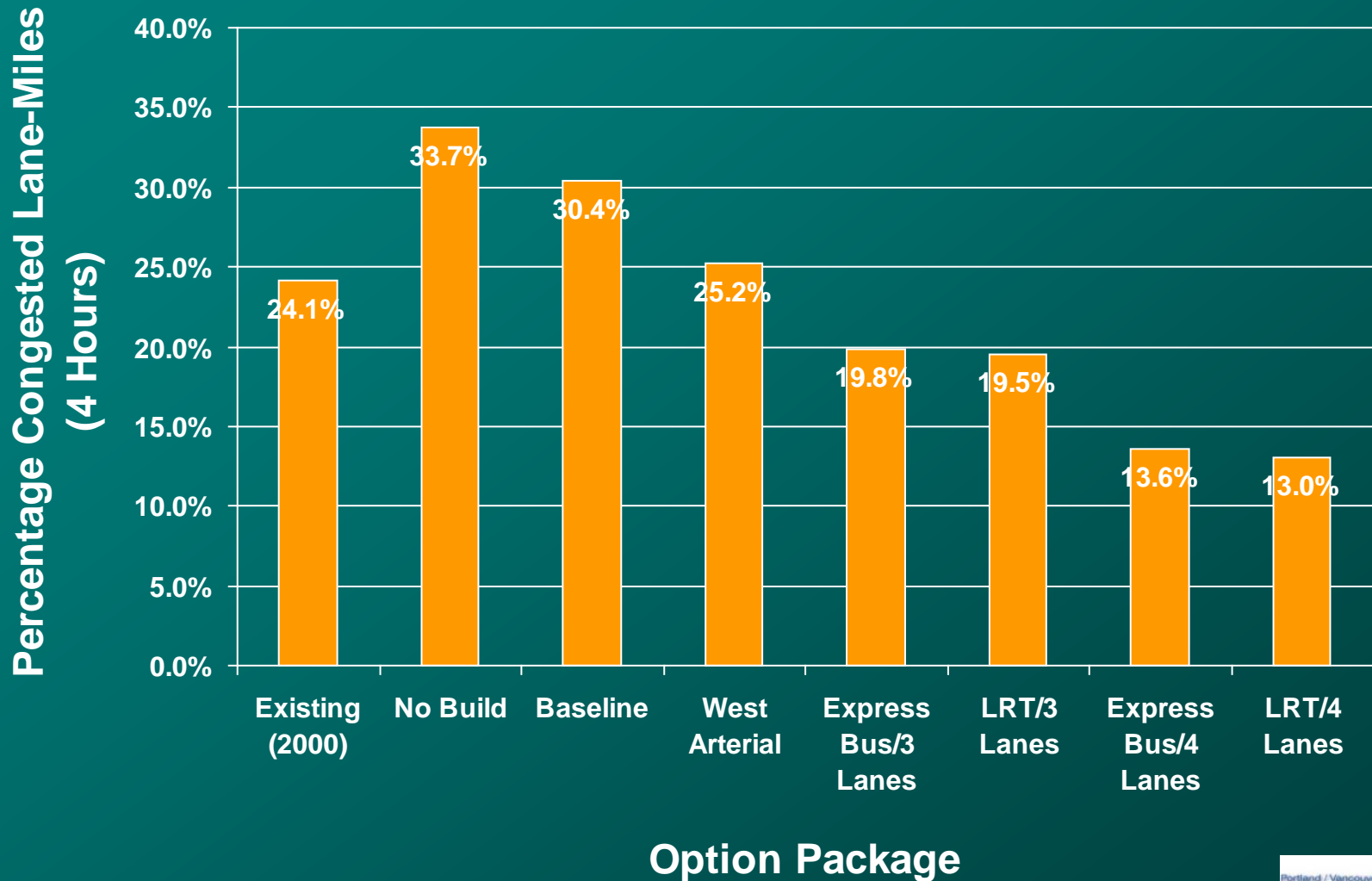
Option Package

Supplemental

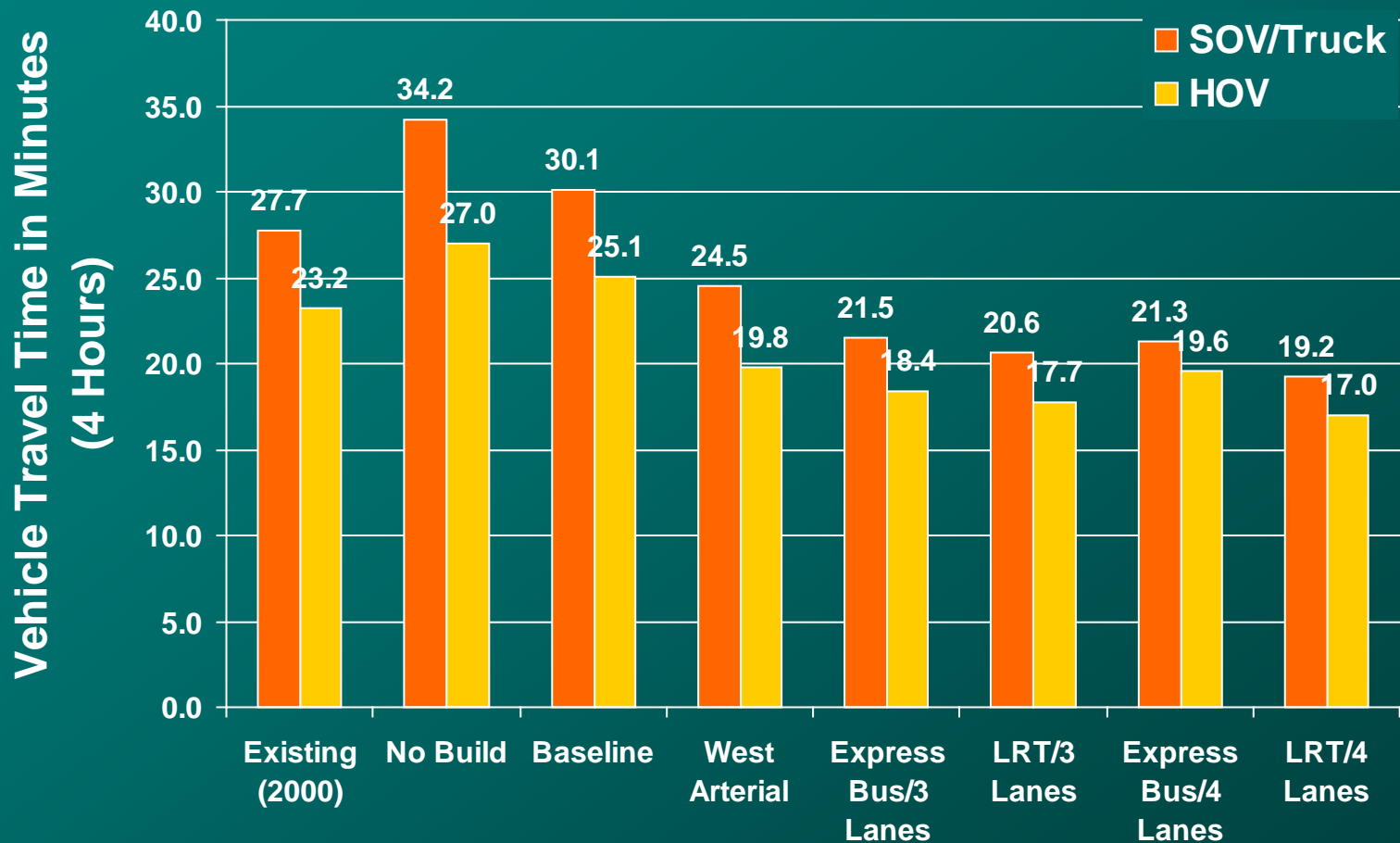
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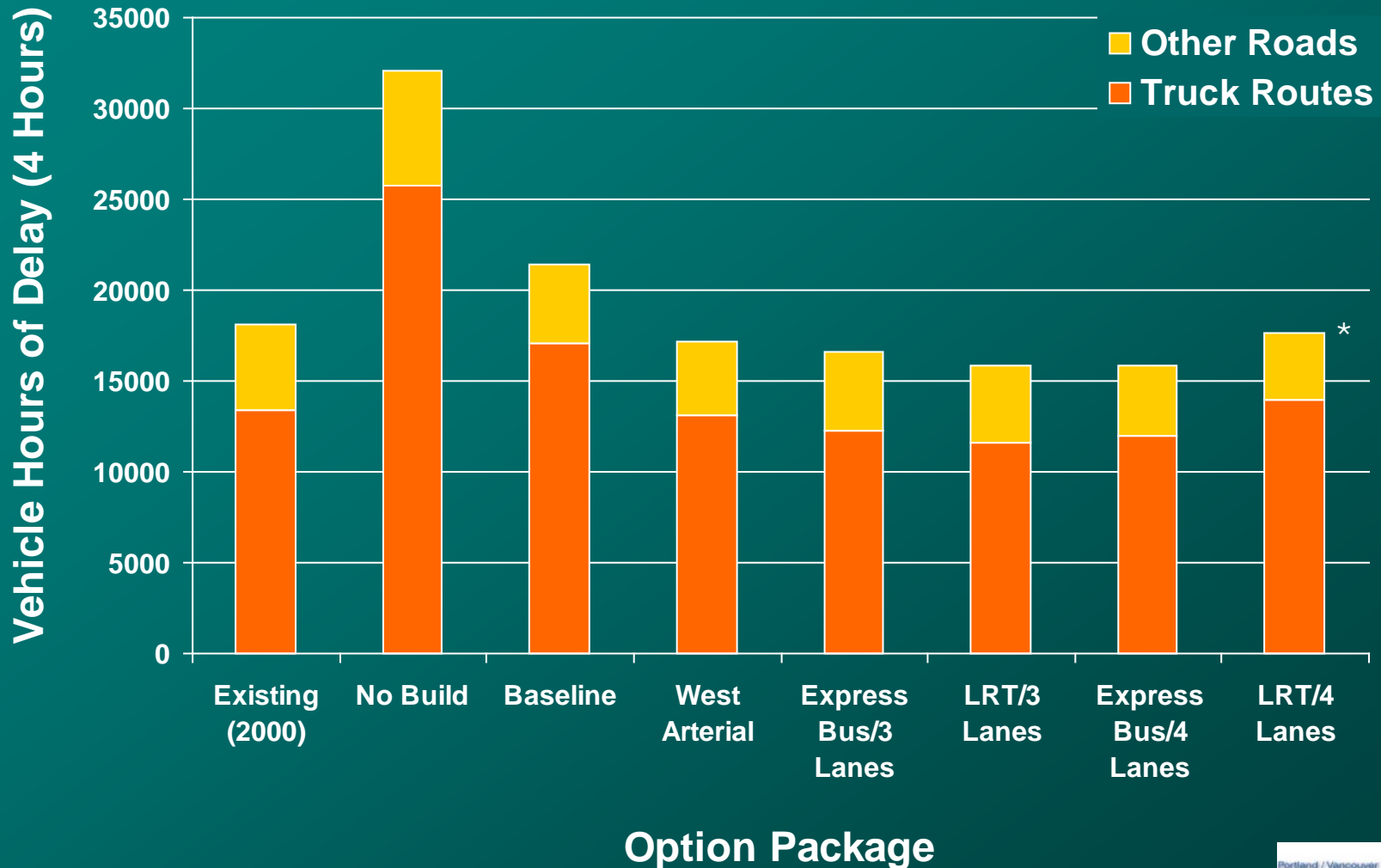
Congested Lane-Miles on I-5 and I-205



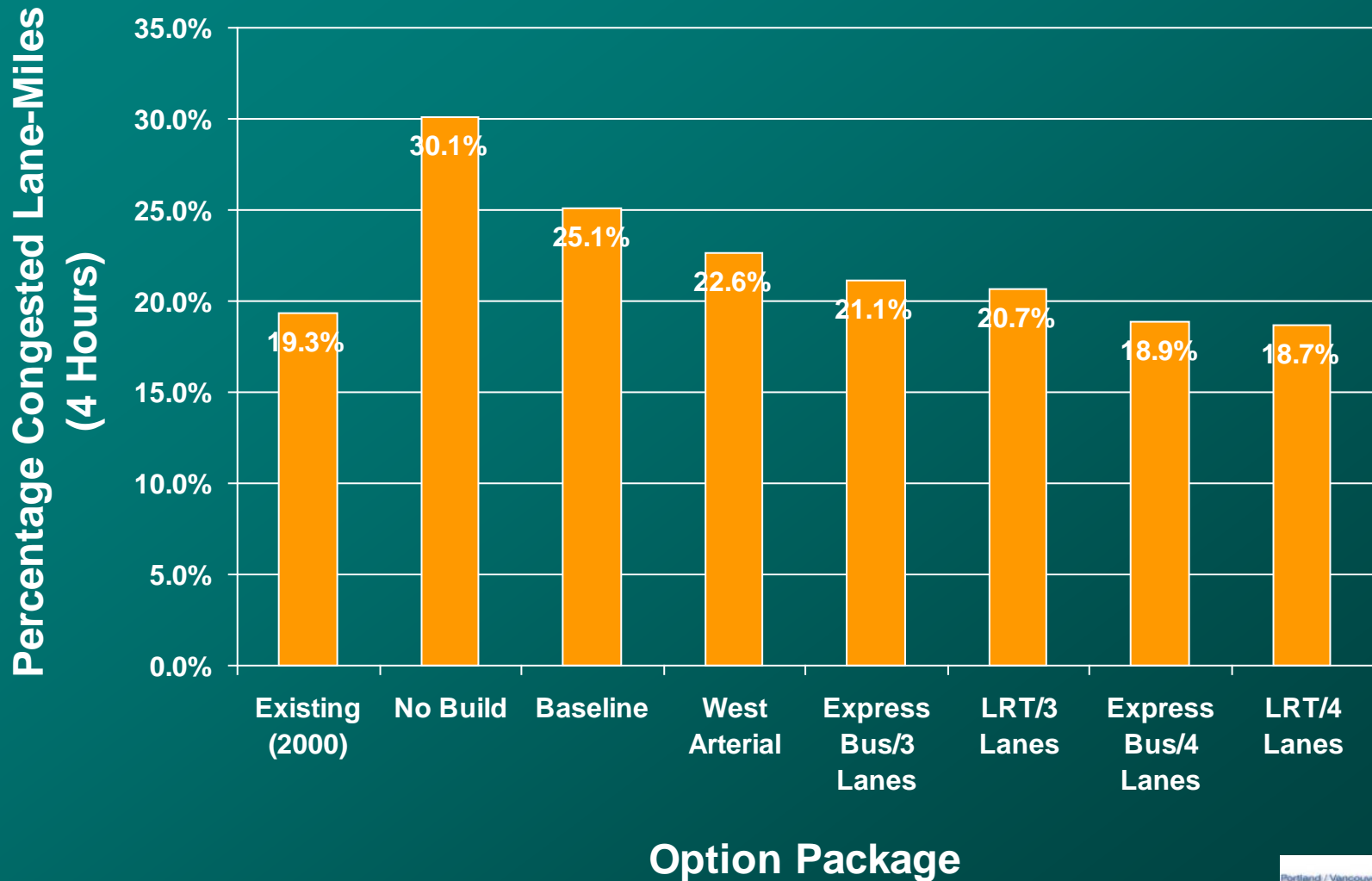
Auto/Truck & HOV Travel Times from Portland CBD to Vancouver CBD



Vehicle Hours of Delay in the Study Area



Congested Lane-Miles on Truck Routes

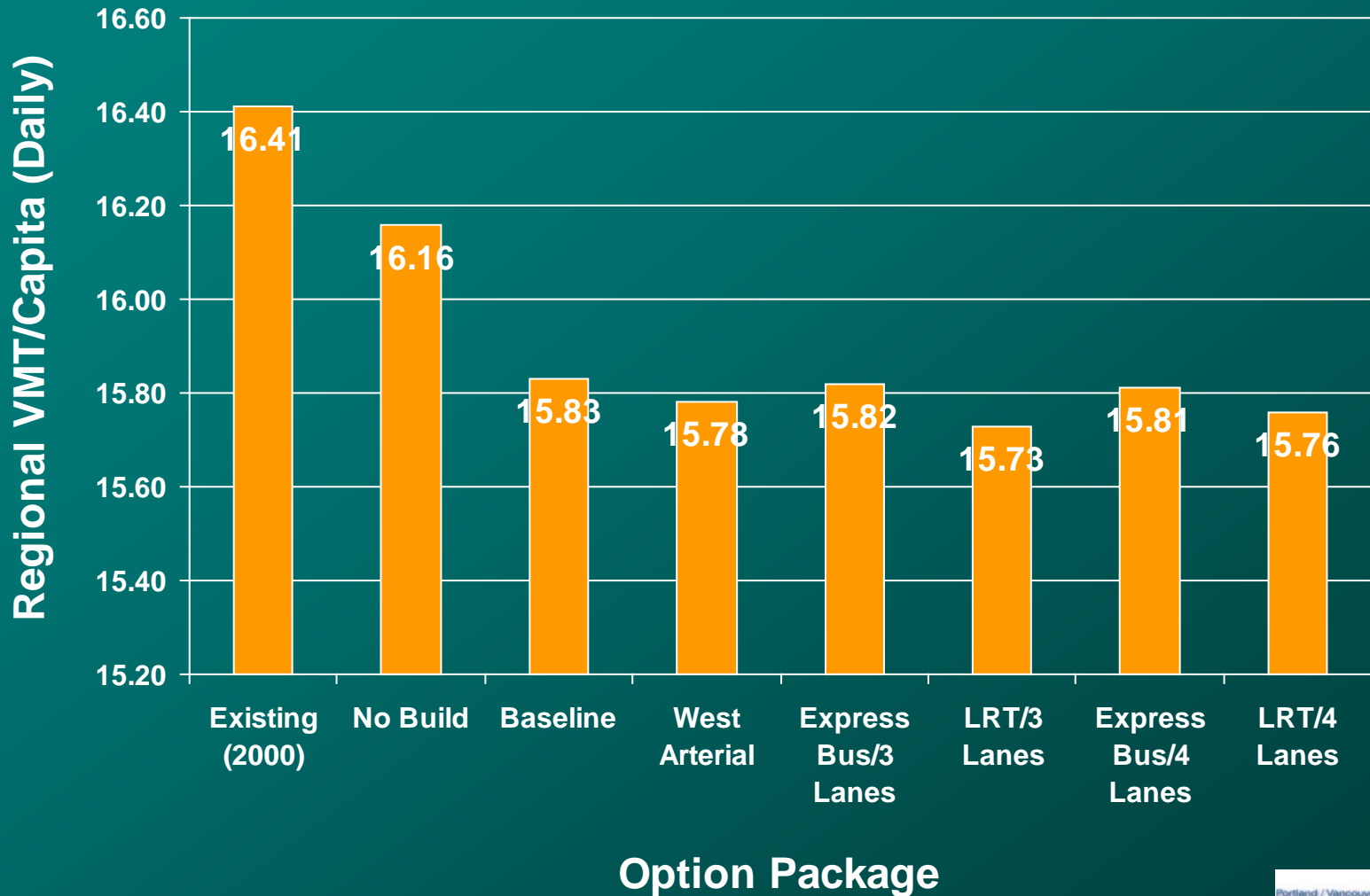


N

Regional Vehicle Miles Traveled (VMT)



Regional VMT per Capita



Traffic on Portland Arterial Roadways Parallel to I-5*



* North of Going/Prescott

Traffic on Vancouver Arterial Roadways Parallel to I-5*



Decision 5

What type(s) of river crossing best satisfies the Problem, Vision and Values Statement?

Peak Direction Traffic Volumes Across the Columbia River



E, F & G

I-5 (Exist.)

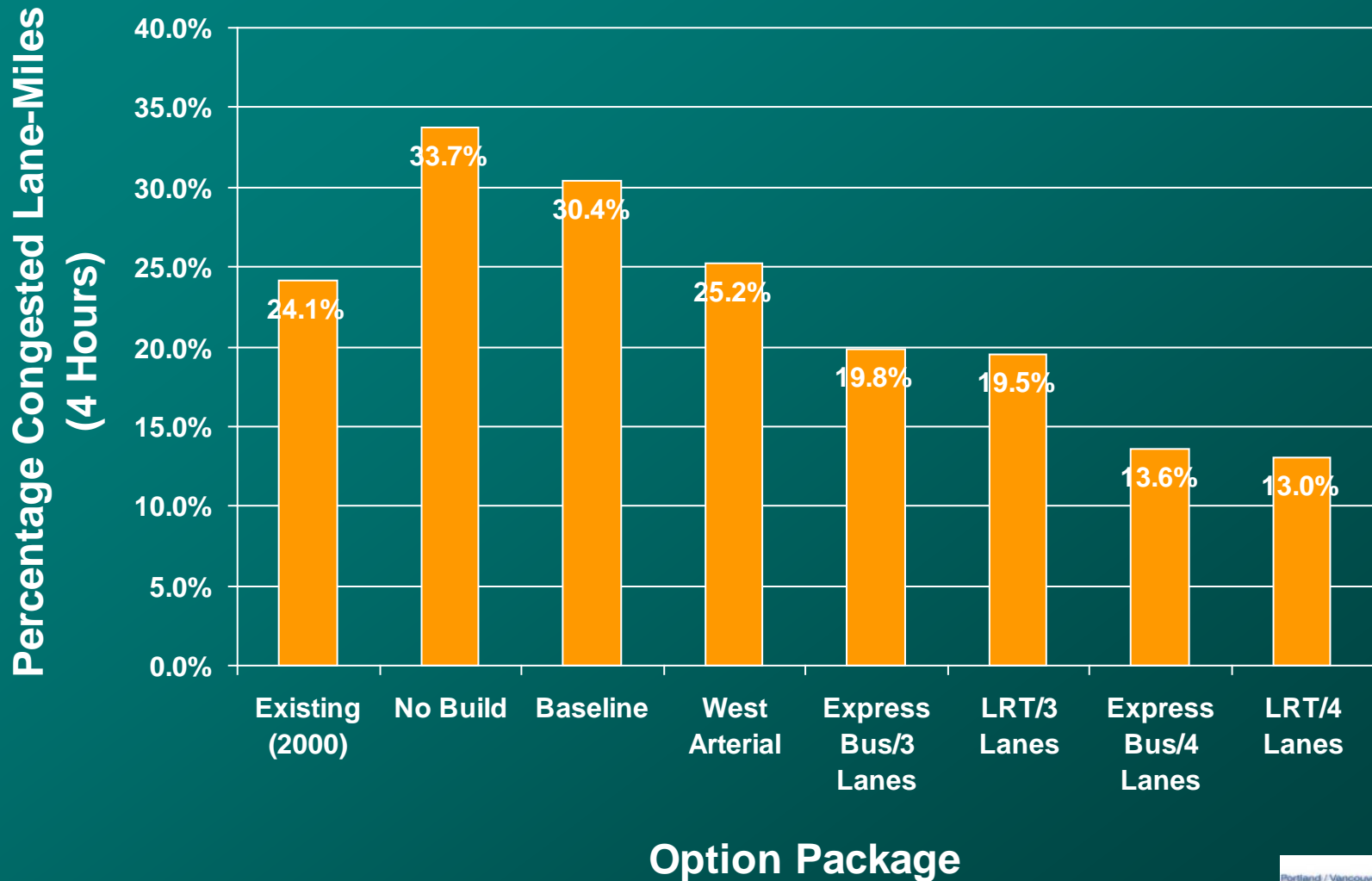
Option Package

Supplemental

I-205 Bridge



Congested Lane-Miles on I-5 and I-205



Auto/Truck & HOV Travel Times from Portland CBD to Vancouver CBD



Vehicle Hours of Delay in the Study Area

