

Staff Options Workshop
February 23, 2001

PREPARE TO STOP

EXIT 10C
Mill Plain Blvd.
City Center

EXIT ONLY

EXIT ONLY

Workshop Goal

***Brainstorm ideas for corridor
options and “packages” of
options, building on
Phase 1 work***

Background: What are today's "problems"?



- *Travel demands on the freeway are exceeding available capacities*
- *This affects I-5 and other roadways*

What does the future hold?



150,000 daily trips

100,000

50,000

1960

1980

2000

2020



What is the magnitude of the problem?

Congestion will become a problem throughout the morning ...



2000

Congestion will become a problem throughout the morning ...



2020

... and the evening



2000

... and the evening



2020

Highway Focus

- ***Baseline***
- ***“Hot Spots”***
- ***Columbia River Crossing***
- ***Widen Freeway for Express Lanes***

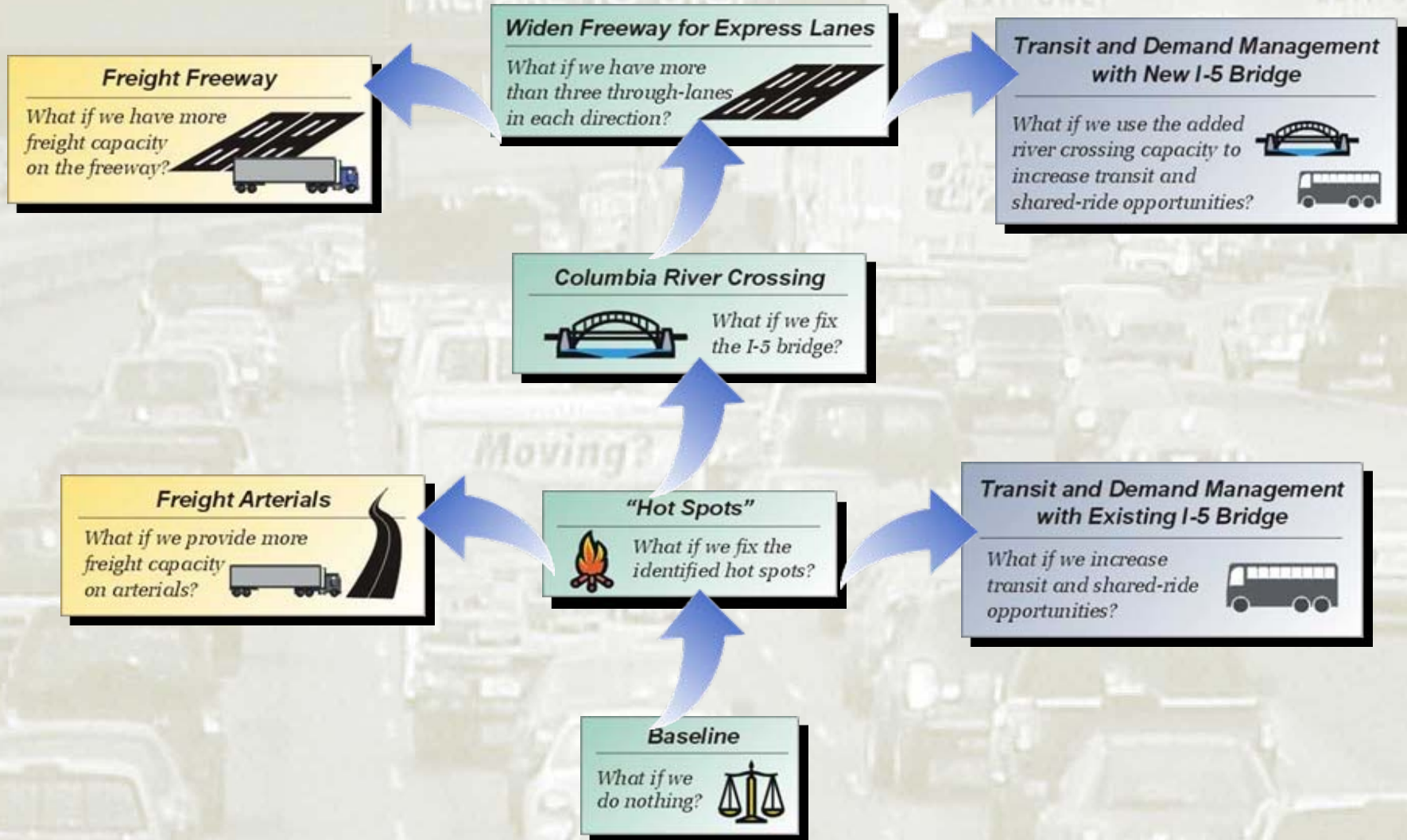
Freight Focus

- ***Freight Arterials***
- ***Freight Freeway***

Transit and Demand Management Focus

- ***Transit and Demand Management with Existing Bridge***
- ***Transit and Demand Management with New Bridge***

Scenarios studied by the Leadership Committee



Scenarios studied by the Leadership Committee

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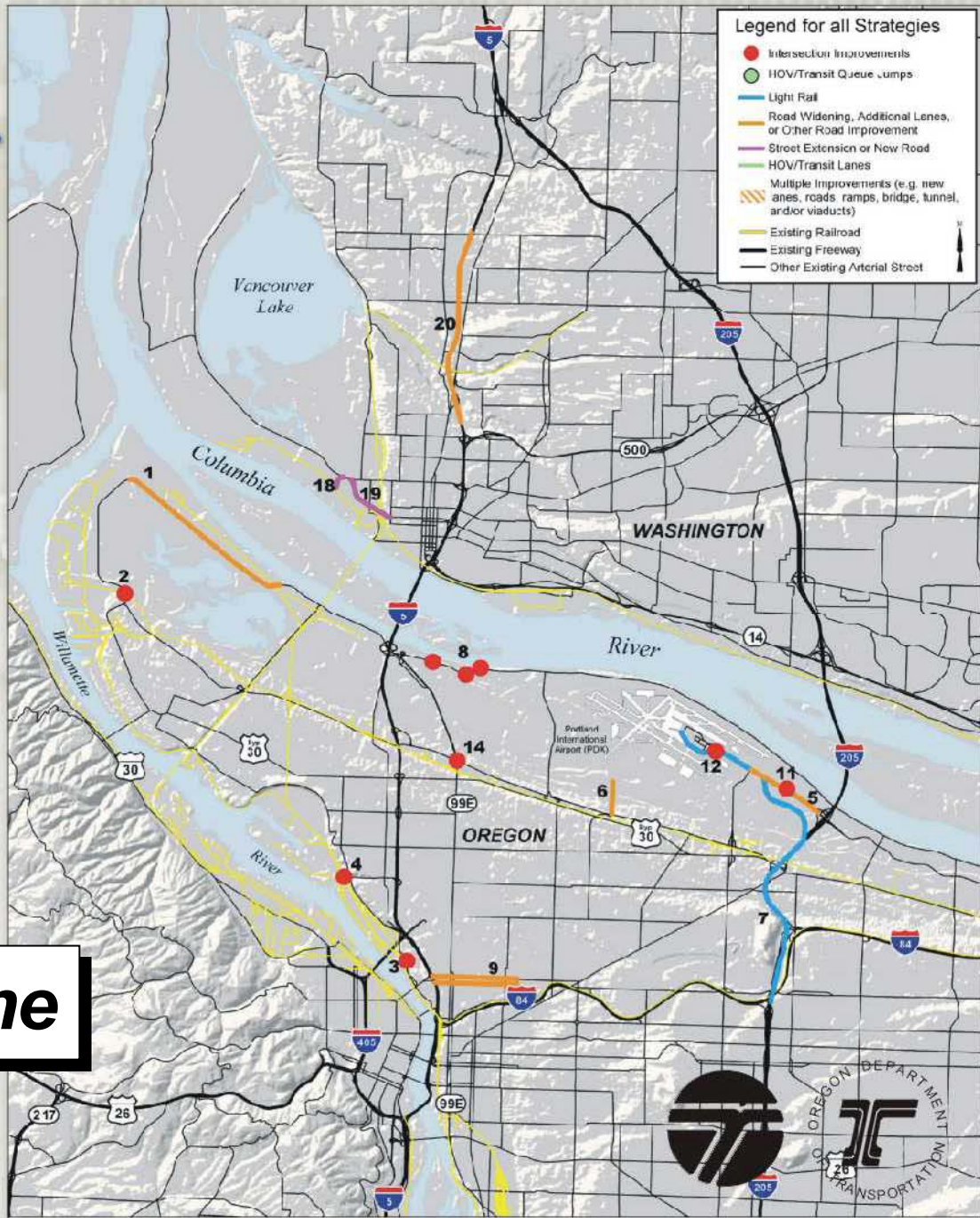
Moving?
\$19

Baseline

*What if we
do nothing?*



What improvements are needed?



Baseline



What improvements are needed?

Scenarios studied by the Leadership Committee

"Hot Spots"

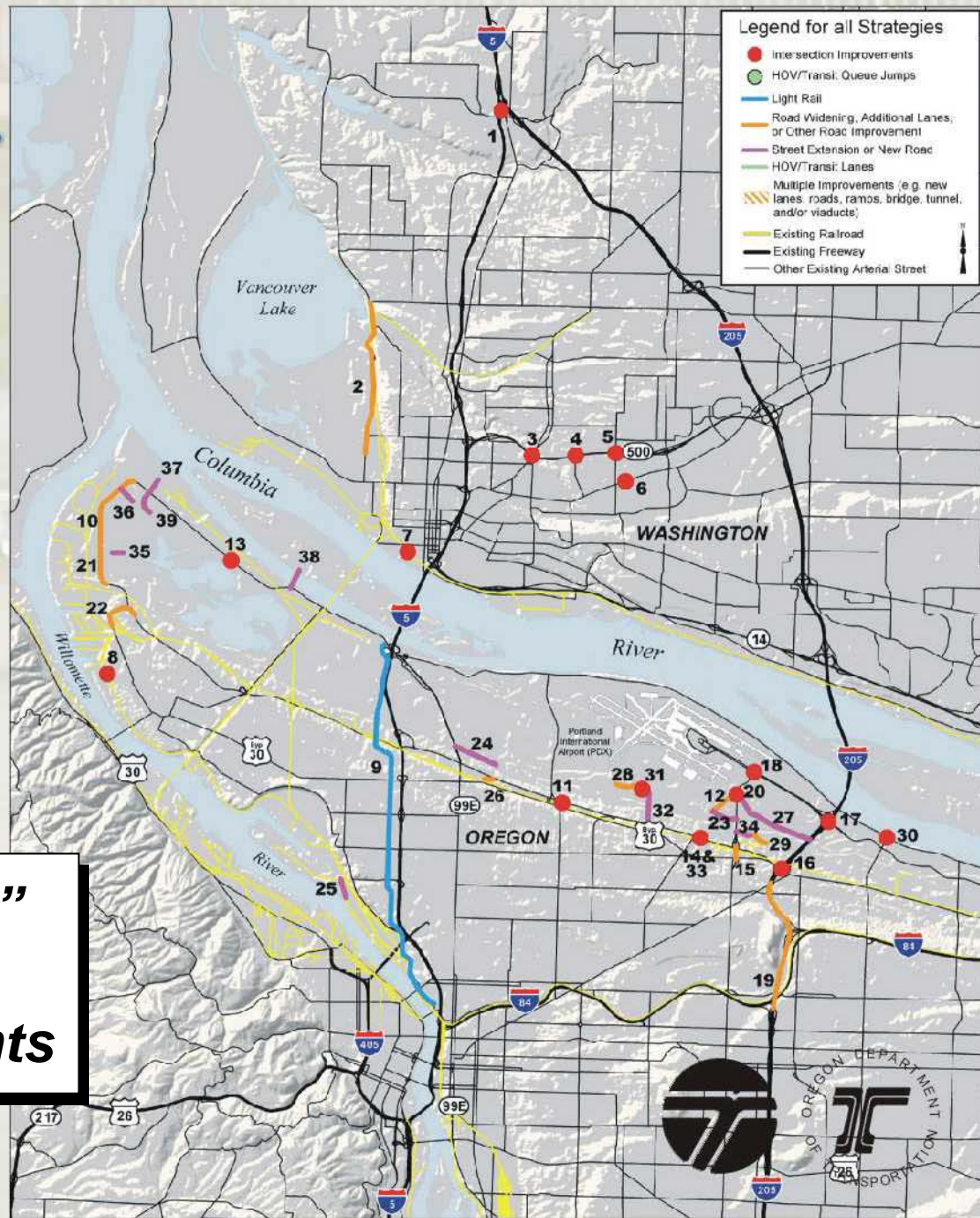


*What if we fix the
identified hot spots?*

Baseline

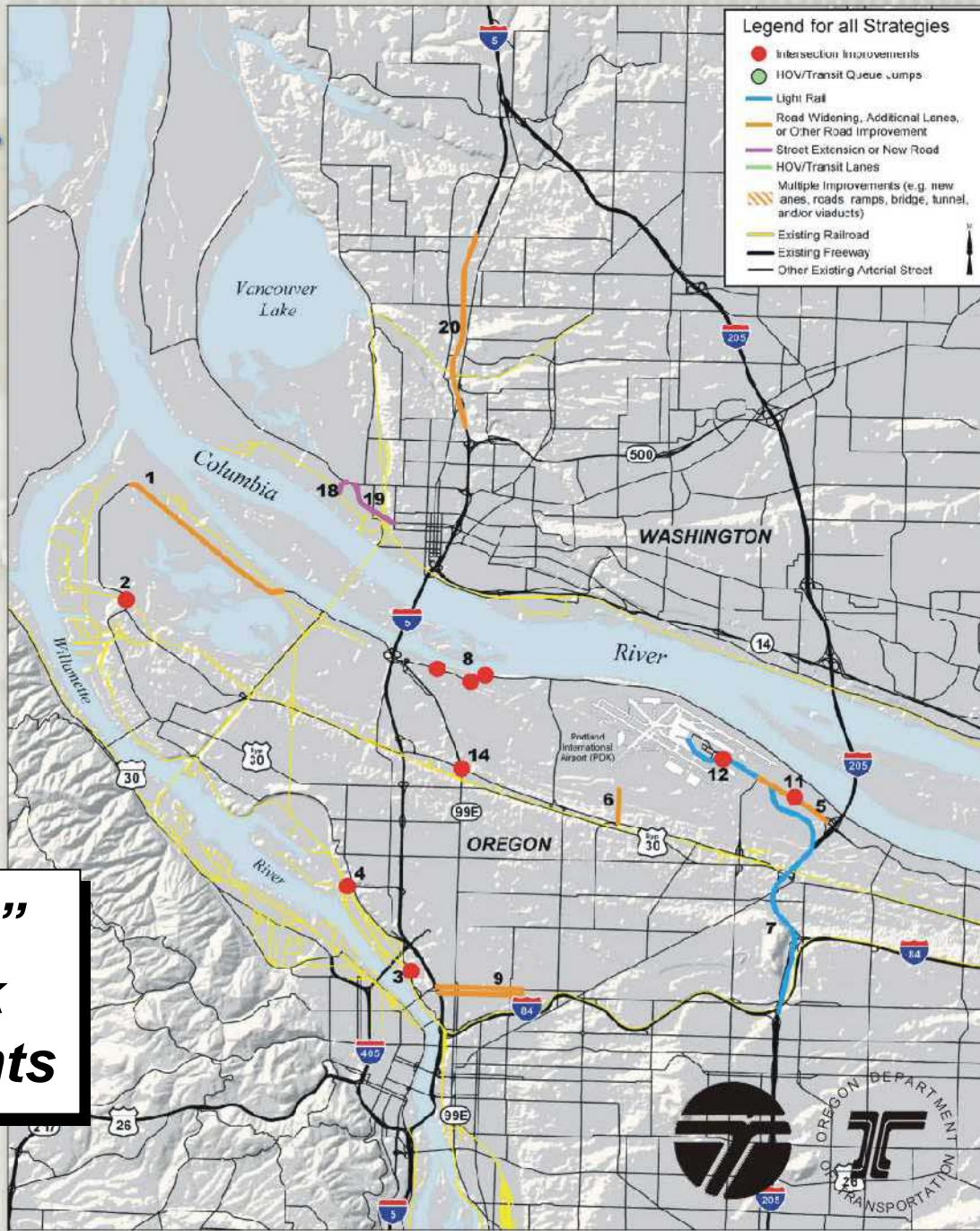
*What if we
do nothing?*





**“Hot Spots”
 planned
 improvements**

*What
 improvements
 are needed?*




**“Hot Spots”
 bottleneck
 improvements**



*What
 improvements
 are needed?*

Scenarios studied by the Leadership Committee

Columbia River Crossing



*What if we fix
the I-5 bridge?*


"Hot Spots"



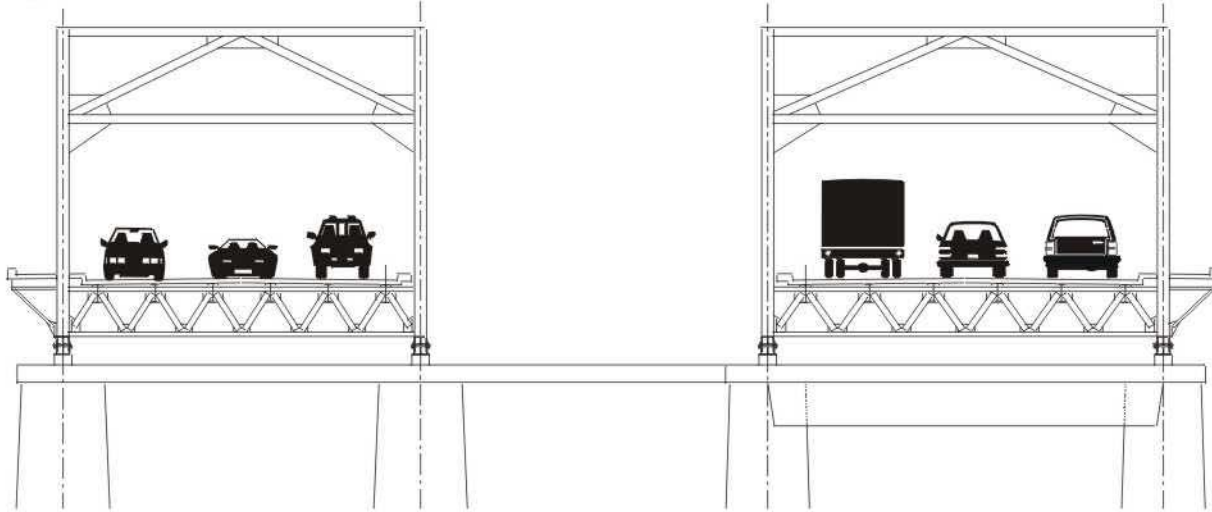
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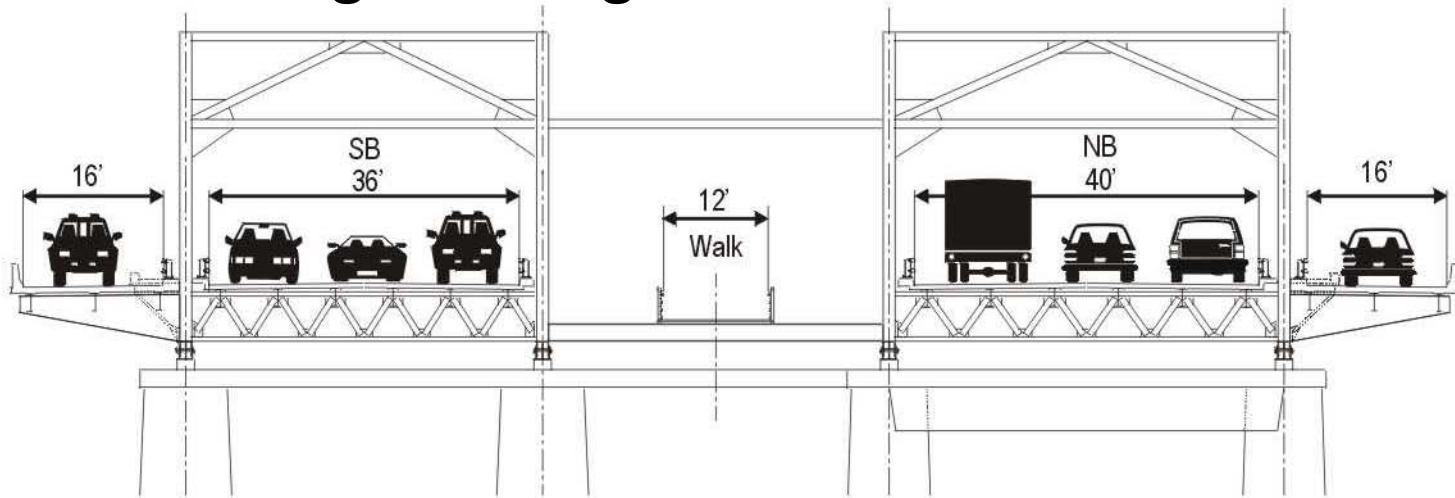
*What if we
do nothing?*



Existing I-5 bridges cross section



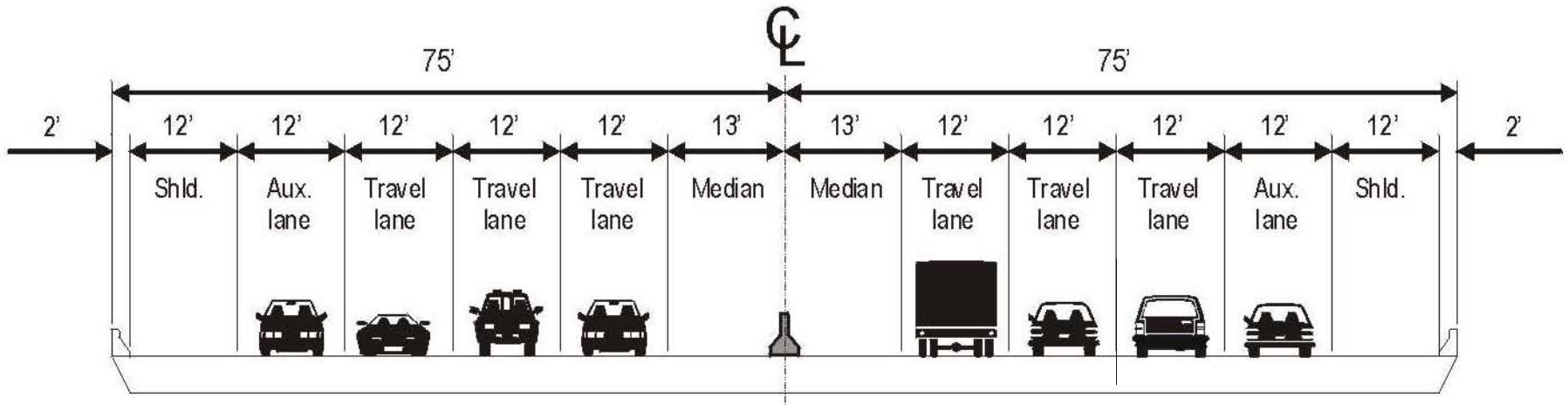
Existing I-5 bridges with additional lanes



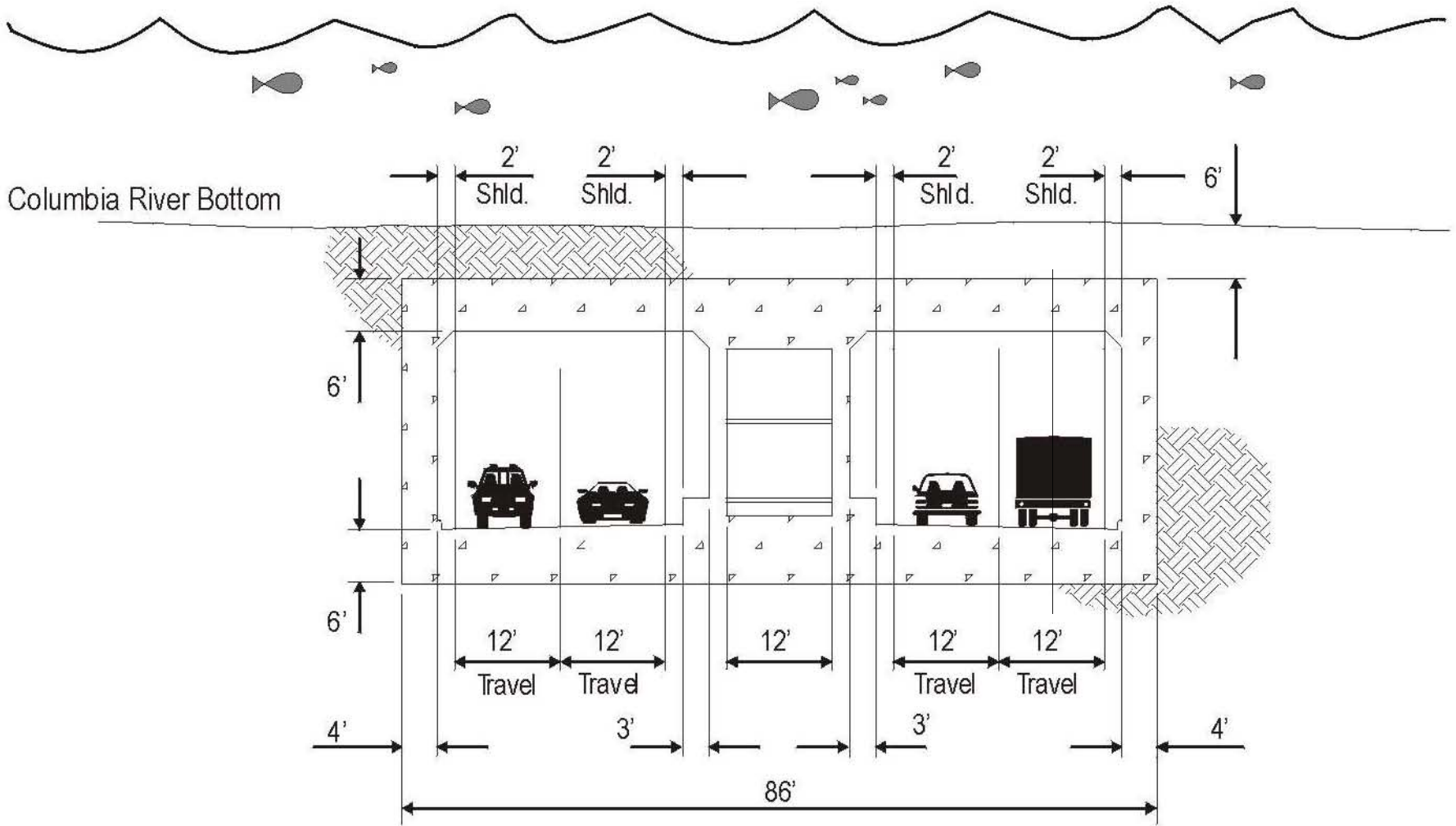
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EXIT 10
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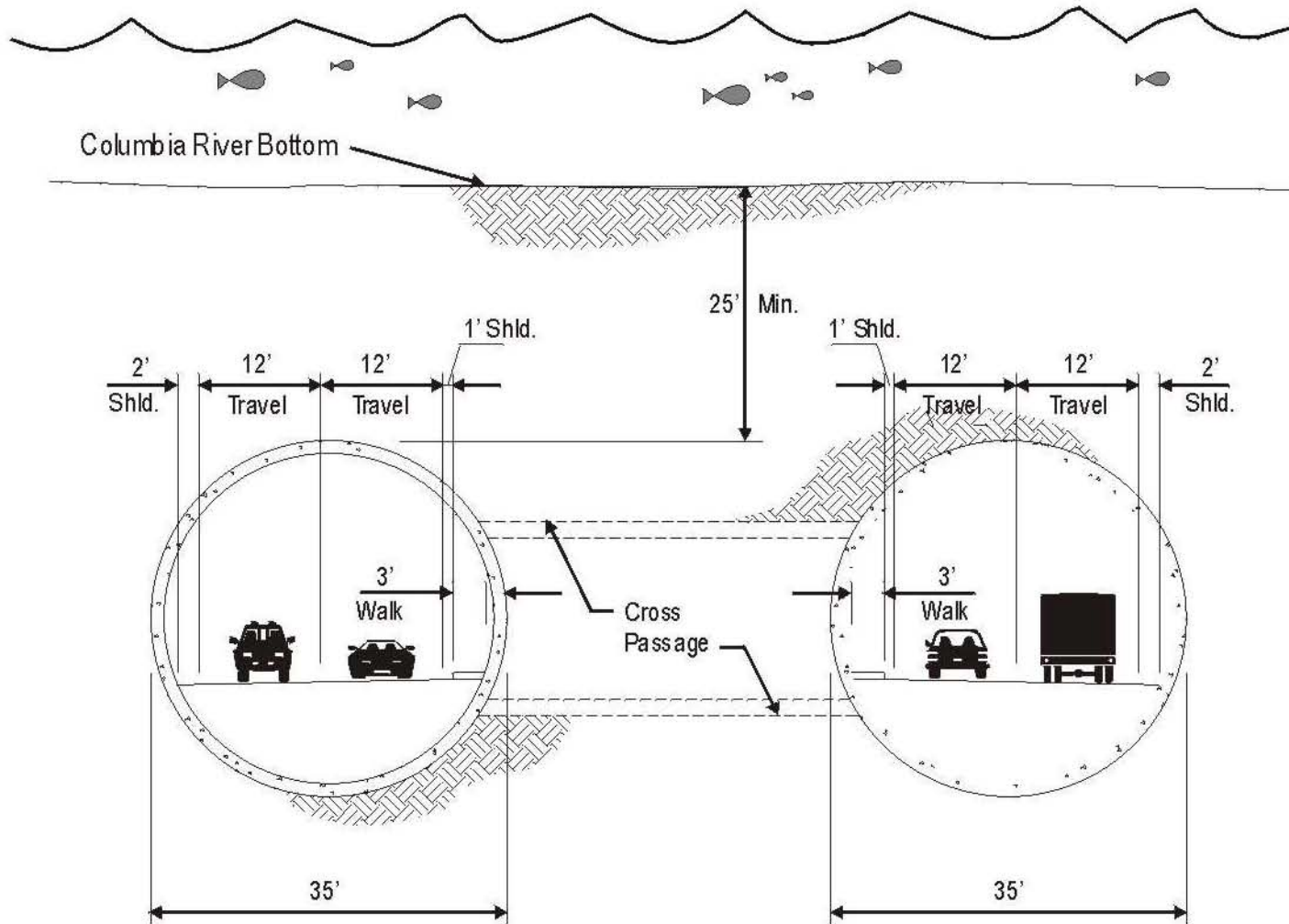
Columbia River Crossing Scenario: Conceptual bridge with eight travel lanes



Immersed-tube tunnel lane configuration



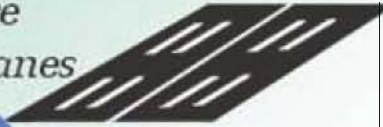
Bored tunnel lane configuration



Scenarios studied by the Leadership Committee

Widen Freeway for Express Lanes

What if we have more
than three through-lanes
in each direction?



Columbia River Crossing



What if we fix
the I-5 bridge?



"Hot Spots"

What if we fix the
identified hot spots?

Baseline

What if we
do nothing?



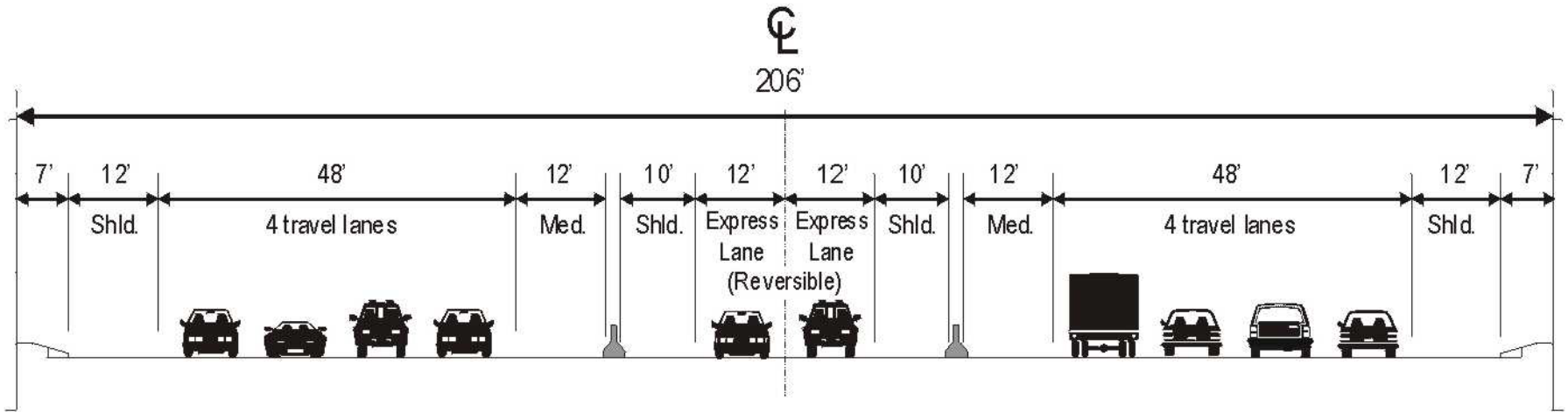
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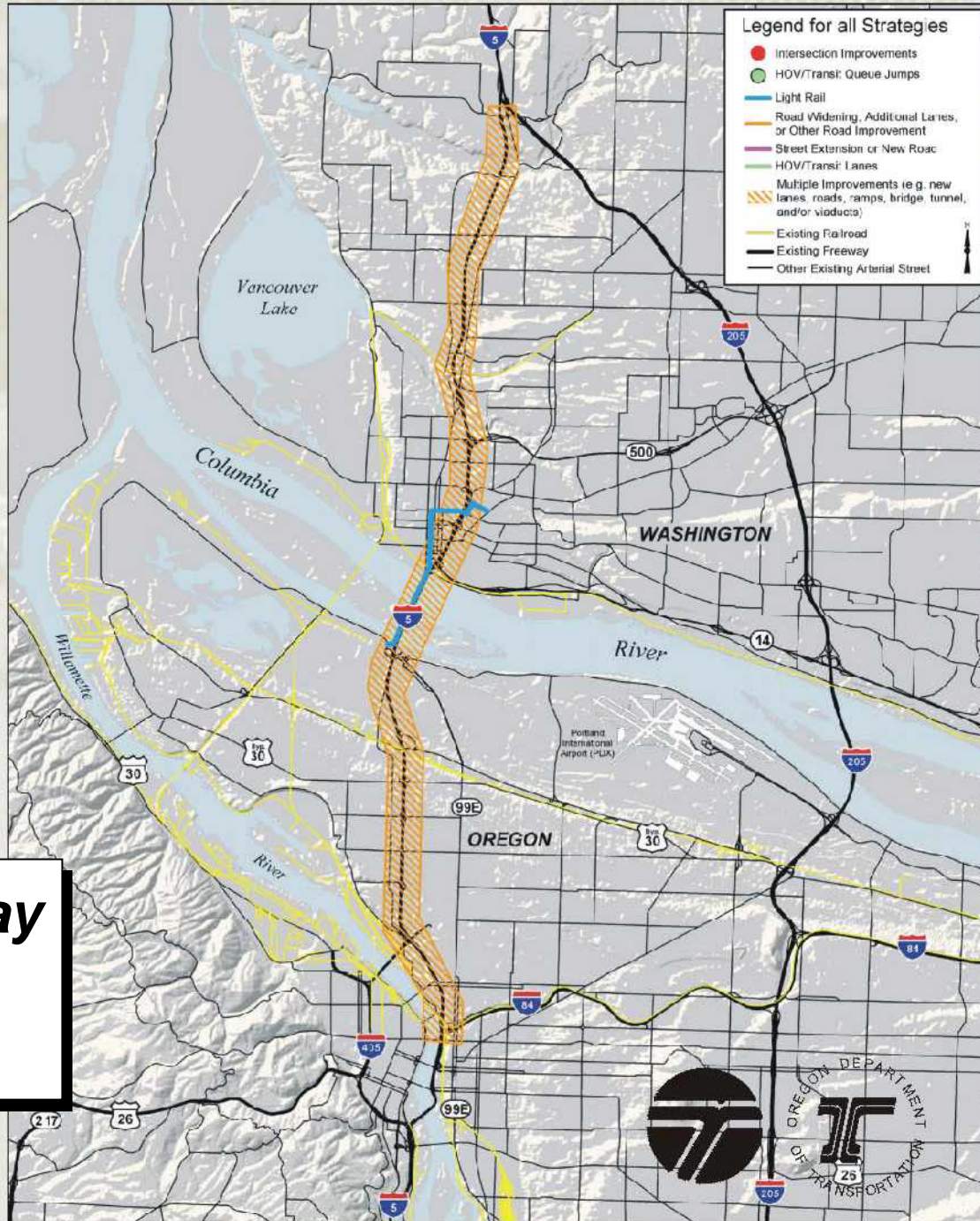
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Columbia River crossing with express lanes



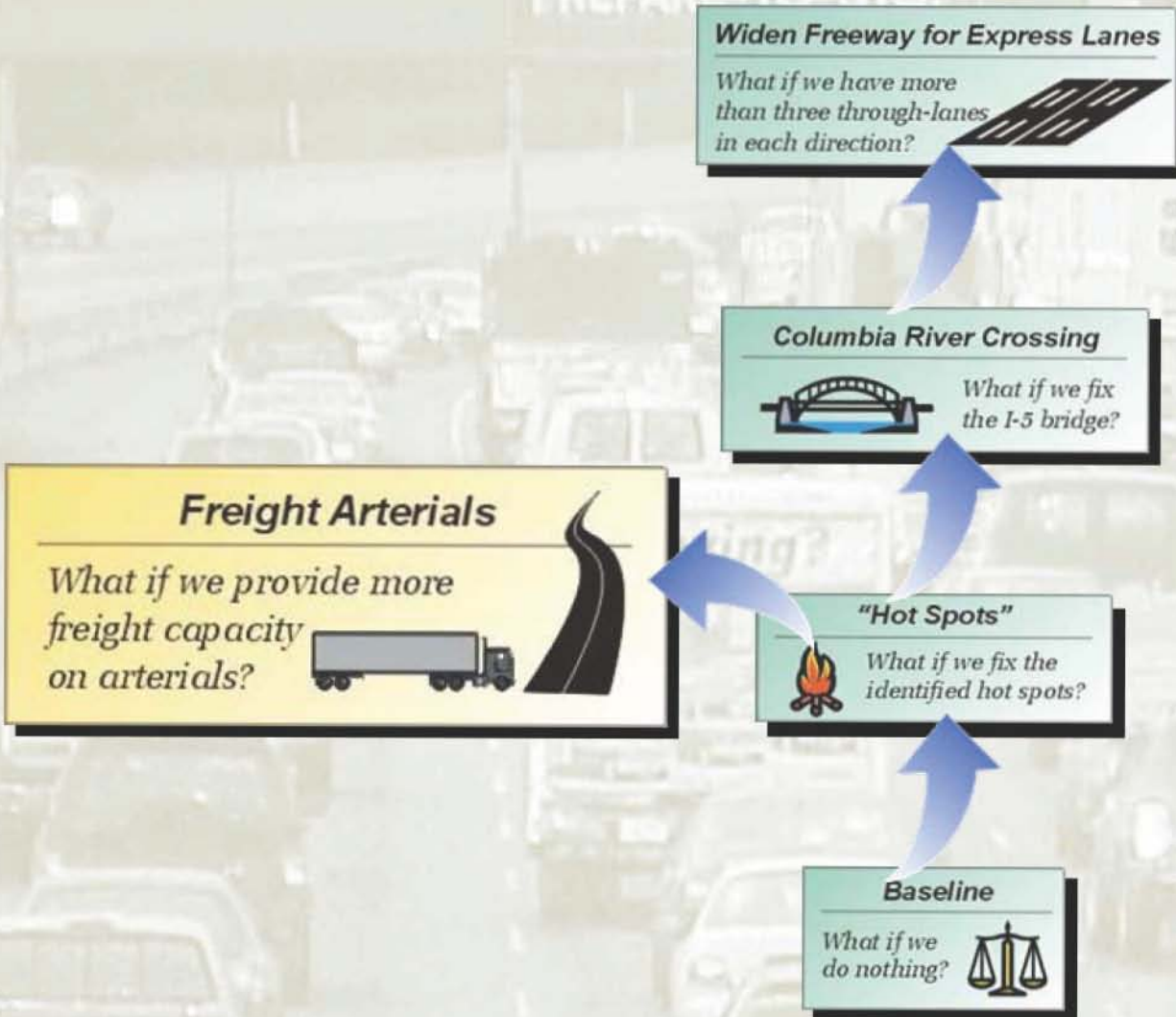


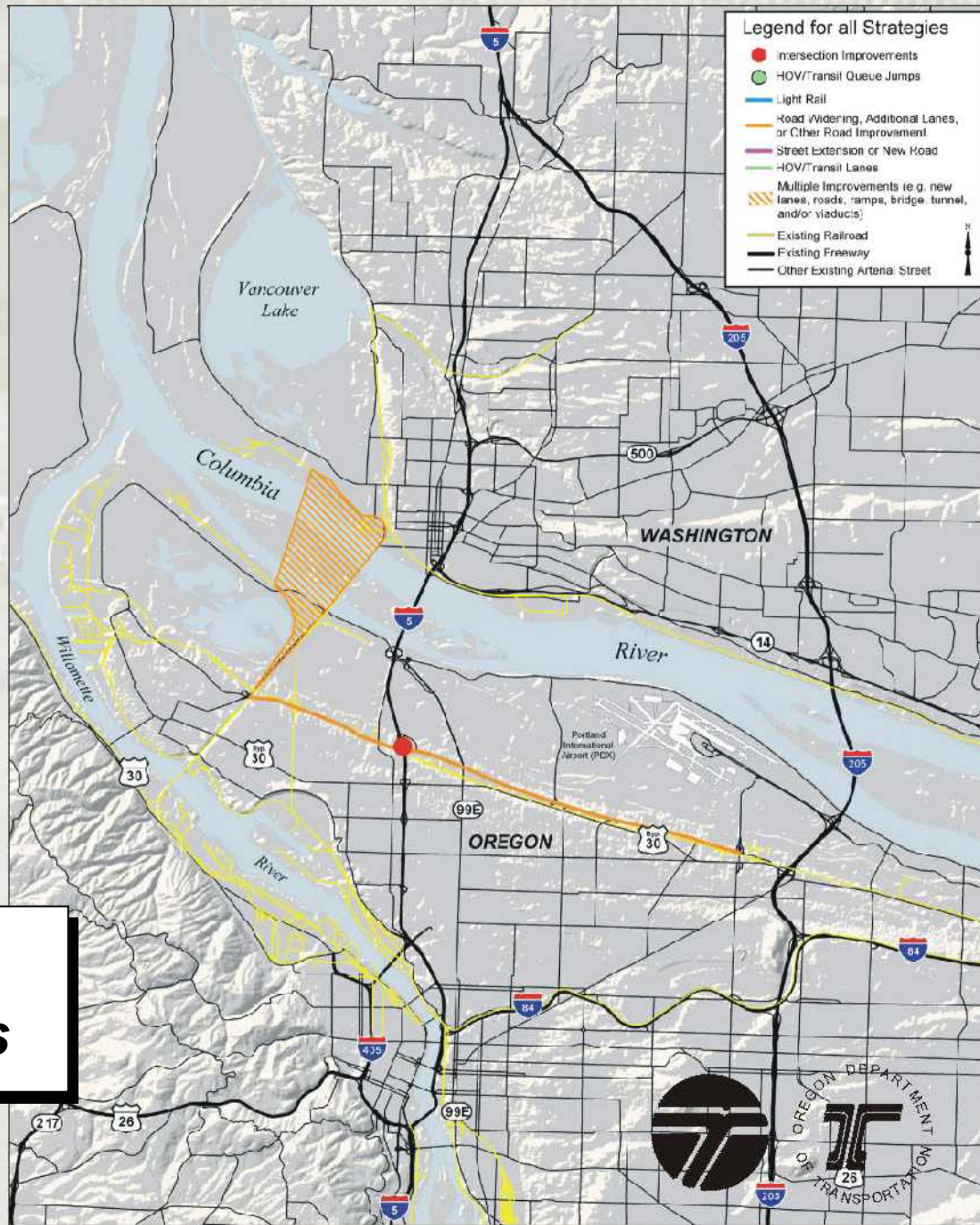
**Widen freeway
 for express
 lanes**



*What
 improvements
 are needed?*

Scenarios studied by the Leadership Committee





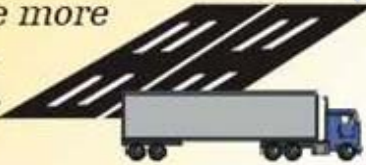
**Freight
 arterials**

*What
 improvements
 are needed?*

Scenarios studied by the Leadership Committee

Freight Freeway

What if we have more
freight capacity
on the freeway?



Widen Freeway for Express Lanes

What if we have more
than three through-lanes
in each direction?



Columbia River Crossing



What if we fix
the I-5 bridge?

Freight Arterials

What if we provide more
freight capacity
on arterials?



"Hot Spots"



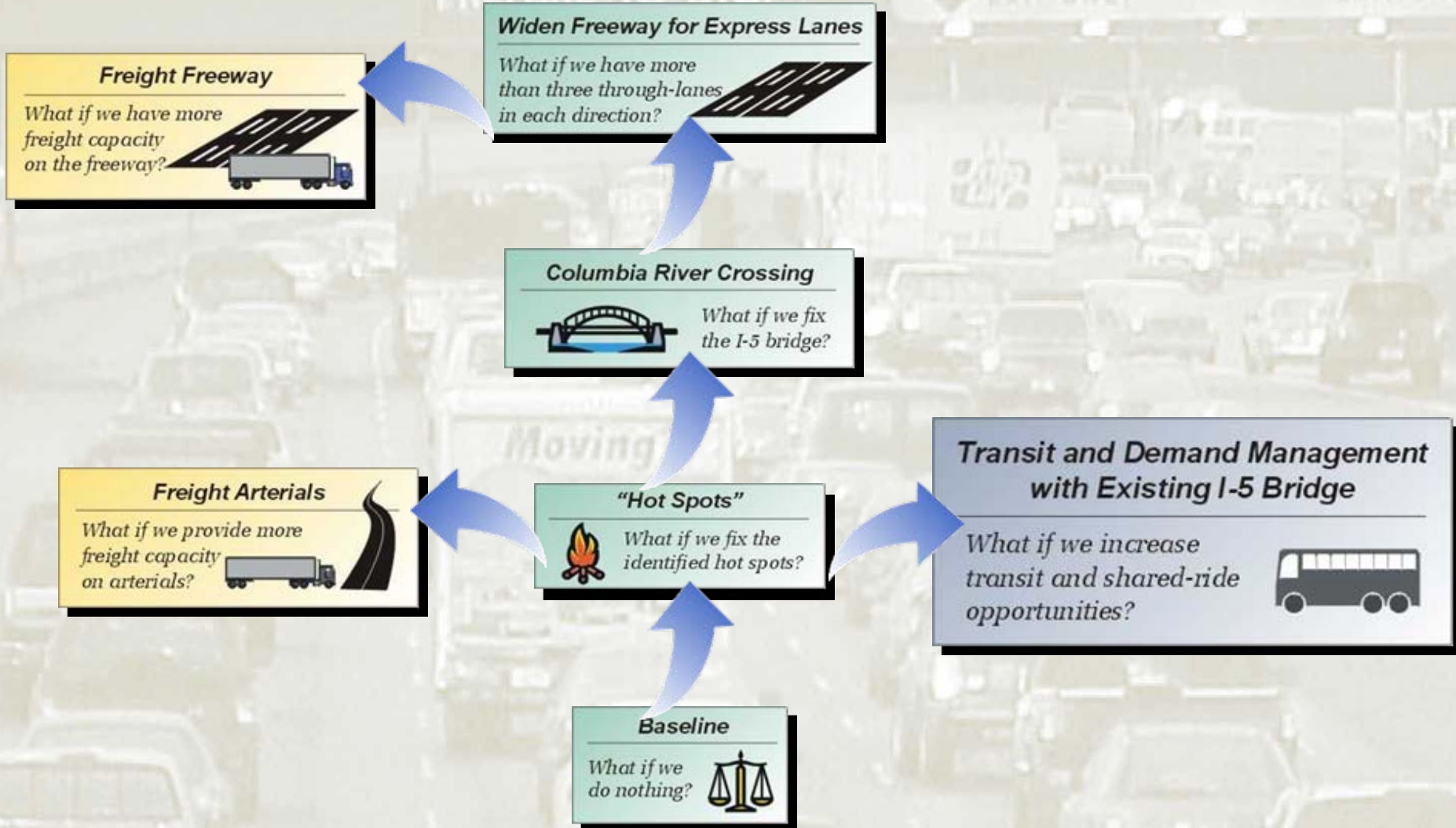
What if we fix the
identified hot spots?

Baseline

What if we
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Scenarios studied by the Leadership Committee



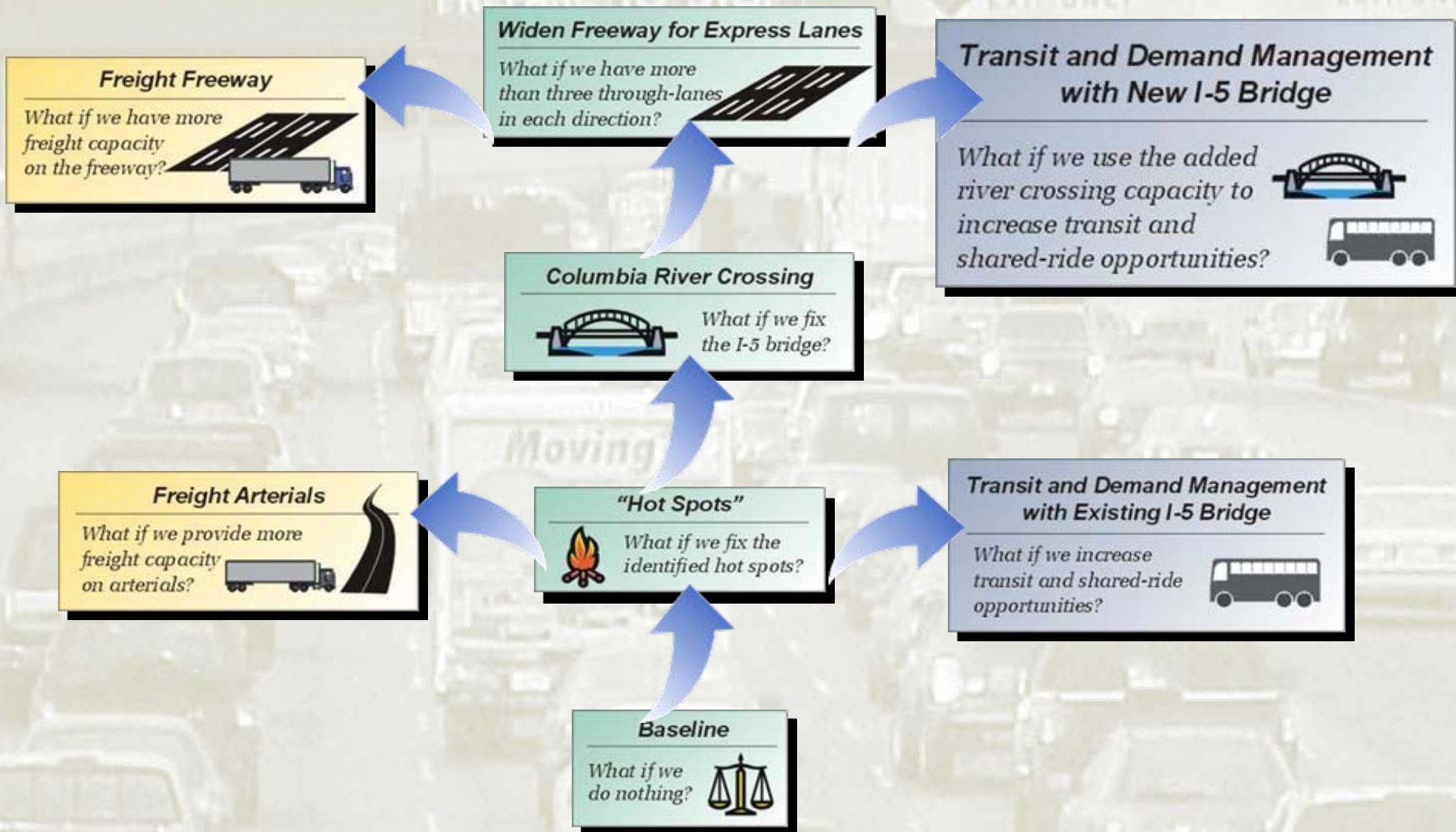


Transit and Demand Management Scenario with existing I-5 bridge



What improvements are needed?

Scenarios studied by the Leadership Committee





What improvements are needed?

*How will potential improvements affect **congestion and delay**?*



A combination of new highway and transit capacity across the river will result in the the fewest number of congested hours of travel per day, but congested periods will still last longer than they do today

*How will potential improvements affect **travel times** in the corridor?*



Compared to today, “rush hour” travel times will increase under nearly any assumption about future improvements, but will be much worse if nothing is done

How will potential improvements affect *transit ridership* in the corridor?



Compared to today, transit ridership will be substantially greater in the future under all scenarios studied. The greatest ridership increases will result from investments in high capacity transit (express bus or LRT).

Leadership Committee conclusions

- *The problem is complex and requires new capacity to be multi-faceted*
 - *there is no silver bullet*
 - *the most successful scenarios would combine highway and transit improvements*
 - *the best solution will need to be phased*

Small Group Exercise, Part 1

- *Tackle one or both of these questions:*
 - (1) *Are there new scenarios (packages of options) that you would like to be evaluated? What are they?*
 - (2) *For any one or more of the scenarios, pick an element for which you would like to develop a conceptual solution. Prepare a description or concept drawing of your concept.*

Small Group Exercise, Part 2

- *At the end of the brainstorming period, report back to the large group (10 minutes):*
 - *Results of your brainstorming effort (what is your idea?)*
 - *What are its principal features and benefits?*
 - *What major issues will need to be addressed for it to be implemented?*
 - *Does it “fit” within one of the existing “packages”? If not, what new “package” might be appropriate?*