### ... is a work in progress

The goal is to identify and evaluate a representative range of improvements

## Factors to be considered:

- Construction costs
- Displacements and encroachments
- Operational efficiency for transit and highway users
- Compatibility with local/regional land use plans

## Factors to be considered (cont):

- Environmental impacts
- Freight benefits and trade-offs
- Safety

 Ability to move forward (permitting and construction issues)

## Process and schedule Working groups established for both Vancouver and Portland, each meeting three times:

Feb 5, 7: Develop and discuss initial ideas
Feb 25, 28: Discuss and revise alternative designs
Mar 18, 21: Consider impacts and further revisions

## **Process and schedule (cont.)**

February - March: Meet with other interest groups (example — trucking industry March 1)

Presentation of results:Early April: Distribute draft report to<br/>Task ForceApril 23: Discuss results at Task Force<br/>meeting

## **River crossing options**

Range of options developed to consider:

- Supplemental vs. replacement bridge options
- Joint use (LRT-highway) vs. separate bridges
- Alignments east and west of existing bridges
- Freeway lanes and arterial lanes



## Existing configuration:

Two three-lane, low-level lift span bridges



Concept 1: Five-lane supplemental bridge w/LRT, west of existing bridges

1. Southbound traffic on new five-lane bridge, LRT on lower deck

2. Low- to mid-level bridge, with lift span over existing navigation channel

3. Northbound traffic would be split between the two existing bridges



Concept 2: Five-lane supplemental bridge east of existing bridges, separate LRT bridge to the west

1. Northbound traffic on new five-lane bridge

2. LRT on new "stand-alone" bridge

3. Low- to mid-level bridges, with lift spans over existing navigation channel

4. Southbound traffic would be split between the two existing bridges, providing five to six lanes



Concept 3: Ten lanes on double-deck fivelane bridge, with LRT retrofitted on existing bridge

1. Low- to mid-level bridge with lift span over existing navigation channel

 Requires retrofitting existing bridge for LRT (feasibility may be questionable)



Concept 4: Ten lanes on doubledeck bridge, with LRT on separate new bridge

1. Mid- to high-level bridges. Navigation channel relocated to center of river

2. Potential fixed spans for highway and LRT (with Coast Guard reduction of existing lift requirements), or lift spans



Concept 5: New six-lane supplemental bridge, use existing bridges for collector-distributor, new LRT bridge

1. Through traffic on new six-lane bridge

2. Existing bridges used for collector-distributor (moving freeway access away from through traffic)

3. LRT on new bridge

4. Low- to mid-level bridges, with lift span over existing navigation channel



#### Concept 6: Four-lane supplemental bridge w/LRT, west of existing bridges

1. Provides for new fourlane bridge with LRT

2. Low- to mid-level bridge with lift span over current navigation channel

3. Use four-lane bridge as collector-distributor (i.e., ramp access for Hayden Island, etc.). Requires flyover ramps north and south, as shown in the schematic on the left



Concept 7: LRT bridge with twolane arterial, plus new three-lane supplemental bridge for freeway traffic

1. Provides for new fourlane bridge with LRT

2. Low- to mid-level bridges with lift spans over current navigation channel

3. Two lanes on existing northbound bridge could be used for HOV, express lanes, or (potentially) reversible lanes



Concept 8: Eight-lane supplemental bridge east of existing bridges, LRT retrofit and two-lane arterial

1. Through traffic on new eight-lane bridge

2. Existing northbound bridge converted to local arterial between Hayden Island and downtown Vancouver

3. LRT on retrofitted southbound bridge

4. Low- to mid-level bridge, with lift span over existing navigation channel

## **River crossing options:**

- All eight options will be considered in conceptually, and four will be developed in greater detail:
- # 1: New five lane southbound bridge with LRT
- # 4: New double deck freeway bridge, with separate new LRT bridge
- # 6: New four lane/LRT bridge for ramp traffic
- #7: New LRT bridge with two arterial lanes, plus new three lane freeway bridge

# Freeway and interchange design development

All options under consideration are consistent with the Task Force draft recommendation for three through freeway lanes in each direction and a maximum of ten lanes across the river.

### Issues and concerns identified to date

 Providing for weaving and merging means adding lanes in some locations



Existing - 6 through, 3 aux lanes

**Option - 6 through, 5 aux lanes** 

Issues and concerns (cont.) Staying within existing right of way Noise - moving vehicles (especially trucks) closer to houses Sound walls Diversion of traffic to neighborhoods Age and seismic vulnerability of existing bridges

# Other feedback from the community

 New ideas - integrated into options or catalogued for future work

## Next steps

 Workshops in Vancouver and Portland this week and the week of March 18

 Outreach meetings to interest groups in March

Report to Task Force in April