# Pre-Construction Tolling of the SR 520 Floating Bridge

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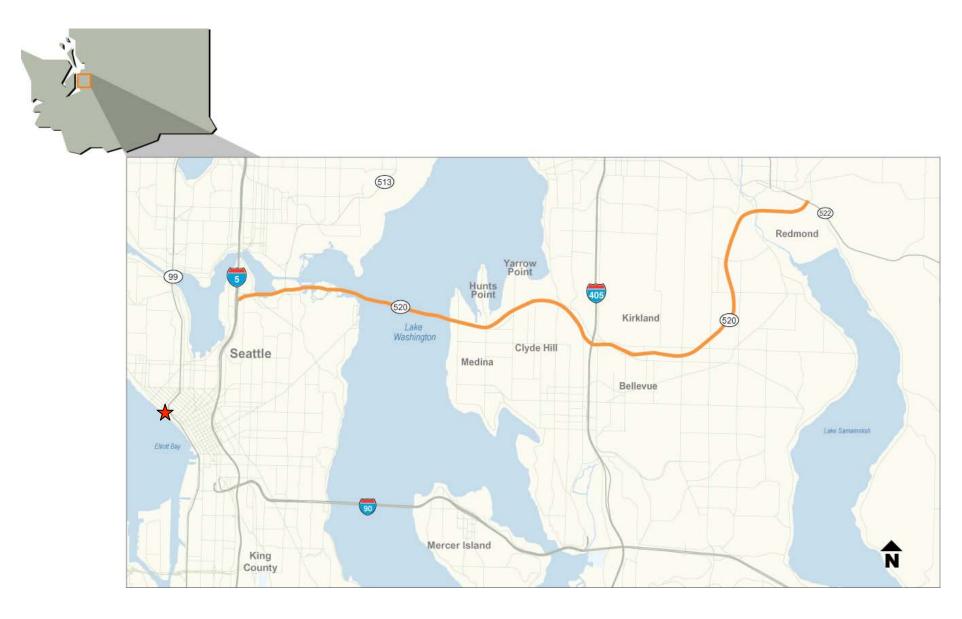
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WASHTO 2009 Annual Meeting
Session 3 - Congestion Relief: Balancing Technology, Choice and Capacity
July 14, 2009



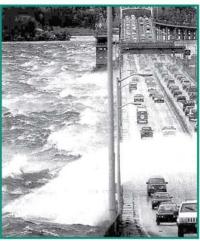
### Where is SR 520?



## Why does SR 520 need replacing?

#### SR 520 bridge is vulnerable to windstorms and earthquakes

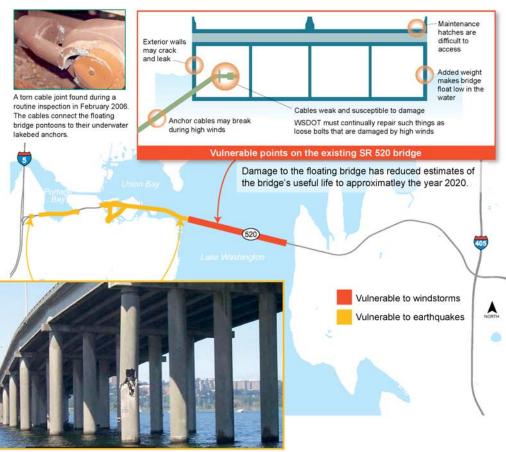






Waves batter the SR 520 bridge.

#### **Current vulnerabilities**



## What is proposed for the new SR 520 corridor?

#### **WEST**

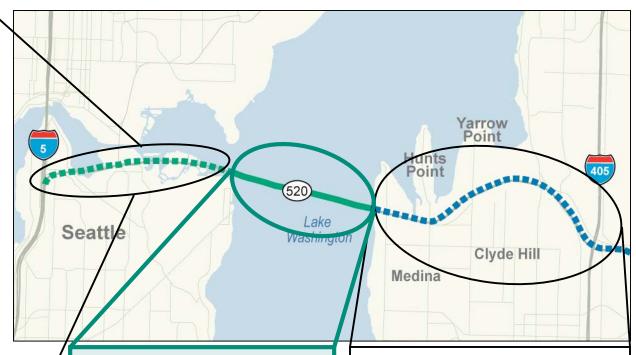
Replaces the approaches, roadway and interchanges and adds lids along SR 520 between I-5 and the floating bridge.

Cost: \$2.0 – 4.2 billion (Unfunded)

**Option A**: Most similar to today's configuration, with addition of a second Montlake drawbridge.

**Option K**: Includes tunnel under Montlake Cut and lowered single point urban interchange.

**Option L**: Includes diagonal bridge over Montlake Cut and surface single point urban interchange.



#### **FLOATING BRIDGE**

A pontoon construction casting basin in Grays Harbor, construction of 33 pontoons, and floating those pontoons into Lake Washington.

Cost: \$1.92 billion (FUNDED)

#### **EAST**

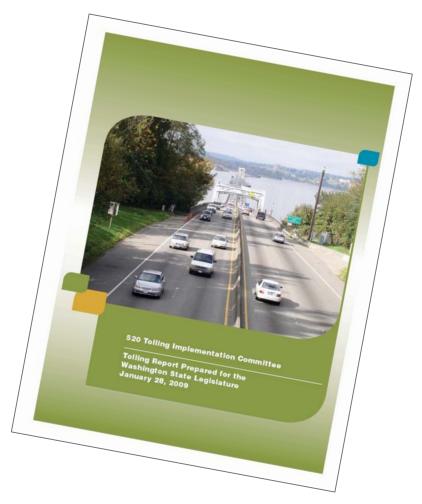
Completes and improves the transit and HOV system from Evergreen Point Road to SR 202

Cost: \$776 million (Unfunded – Applying for federal stimulus funds in fall 2009 to help close the gap)

## **520 Tolling Implementation Committee**

Legislature appointed a 520 Tolling Implementation Committee to engage the public on such issues as:

- Tolling the existing SR 520 bridge
- Tolling both I-90 and SR 520
- Providing incentives for transit and carpooling
- Implementing variable tolling as a way to reduce congestion
- Recommending mitigation measures for traffic diversion from SR 520 to other routes, including SR 522



The Committee's final report went to the governor and legislature in January 2009. Visit **build520.org** for details.

## What is the current SR 520 program status?

- ■Gov. Gregoire authorized tolling on SR 520 bridge beginning in 2010.
- ■With tolling, the SR 520 program is currently funded for \$1.99 billion.

#### Pontoon construction timeline:

- •2010: New casting basin in Grays Harbor.
- •2012: Building pontoons at the new site.
- •2014: Opening a new 4-lane bridge.

#### Pontoon contracting timeline:

- June 22: Issued RFQ.
- August: Issue RFP.



Gov. Gregoire signs the SR 520 tolling bill in Grays Harbor.



A simulated image of tolling on the existing SR 520 bridge.

## **Current Tolling in Washington**

#### **Tacoma Narrows Bridge**

- Both toll booths and electronic toll collection.
- 75% of traffic using electronic tolls.
- 85% of morning commuters have electronic toll accounts.
- 96% of all Gig Harbor households have Good To Go! accounts.
- 14 million transactions in first year.





#### **SR 167 HOT lanes**

- All electronic toll collection no toll booths.
- Dynamic pricing based on traffic levels.
- More than 20,000 Good To Go! users have paid to use the SR 167 HOT lane.
- Average of 1,223 vehicles per day paid to use the HOT lanes.

## Lake Washington Urban Partnership



Artist's rendering of what electronic tolling might look like on the existing SR 520 Bridge

#### Funded by:



Designed to reduce congestion through the "Four T's":

- Transit Technology
- Telecommuting Tolling

Awarded \$154.5 million to assist WSDOT, Puget Sound Regional Council and King County in applying these innovative approaches to reduce congestion in the SR 520 corridor in Western Washington.

LAKE WASHINGTON URBAN PARTNERSHIP



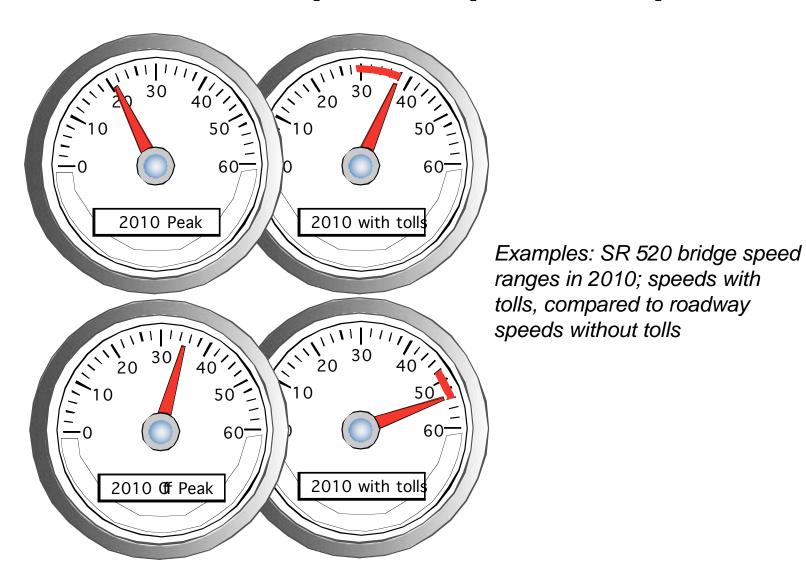


## Lake Washington Urban Partnership funding

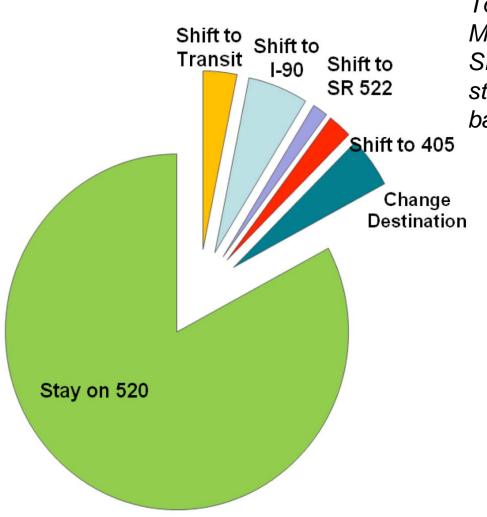
### by funding element

Transit (new buses and park & rides)	\$41 million
Technology (active traffic management systems)	\$23.1 million
Telecommuting (builds on existing TDM programs)	\$0
Tolling (variable tolling of existing bridge)	\$63 million
Ferry Projects (throughout the Puget Sound)	\$27.4 million
Total Funding	\$154.5 million

## When tolls are in place, speeds improve



## Some people make different choices — take transit, shift time of day or change destination



Total diversion under Scenario 6: Maximize funding by tolling only SR 520. 82% of person volume stay on SR 520 based on 2010 baseline SR 520 volume.

# Route diversion – people may change their travel routes, but net effect is distributed across the system Examples of traffic diversion when

**Examples of traffic diversion when tolling SR 520** 

(2010, Scenario 7: Toll 520 in 2010, increase rate in 2016)



## Three ways to pay on SR 520

1. Good To Go! – Transponders will work on SR 520 just as they do on the Tacoma Narrows Bridge and SR 167 HOT lanes.





2. Pre-paid video tolling — Video toll users can have a pre-paid account just like *Good To Go!*, but instead of reading a transponder, video cameras read the license plate.

Example of signs on toll road in Texas.



3. Late-pay video tolling – Those without a pre-paid account will receive an invoice in the mail. An infraction notice would be sent to those who fail to pay.

## **Three Tolling Procurements**

- Toll Equipment, including toll tags and readers. WSDOT will purchase and supply to vendors.
- Toll Collection System (TCS) including civil structures, communications and system integration.
- Customer Service Center (CSC) including back office service provider.





## Schedule to get to tolling on SR 520

