

An aerial photograph of the Seattle waterfront, showing the city's layout along the water. The water is dark, and the land is a mix of green and grey. The text is overlaid on the left side of the image.

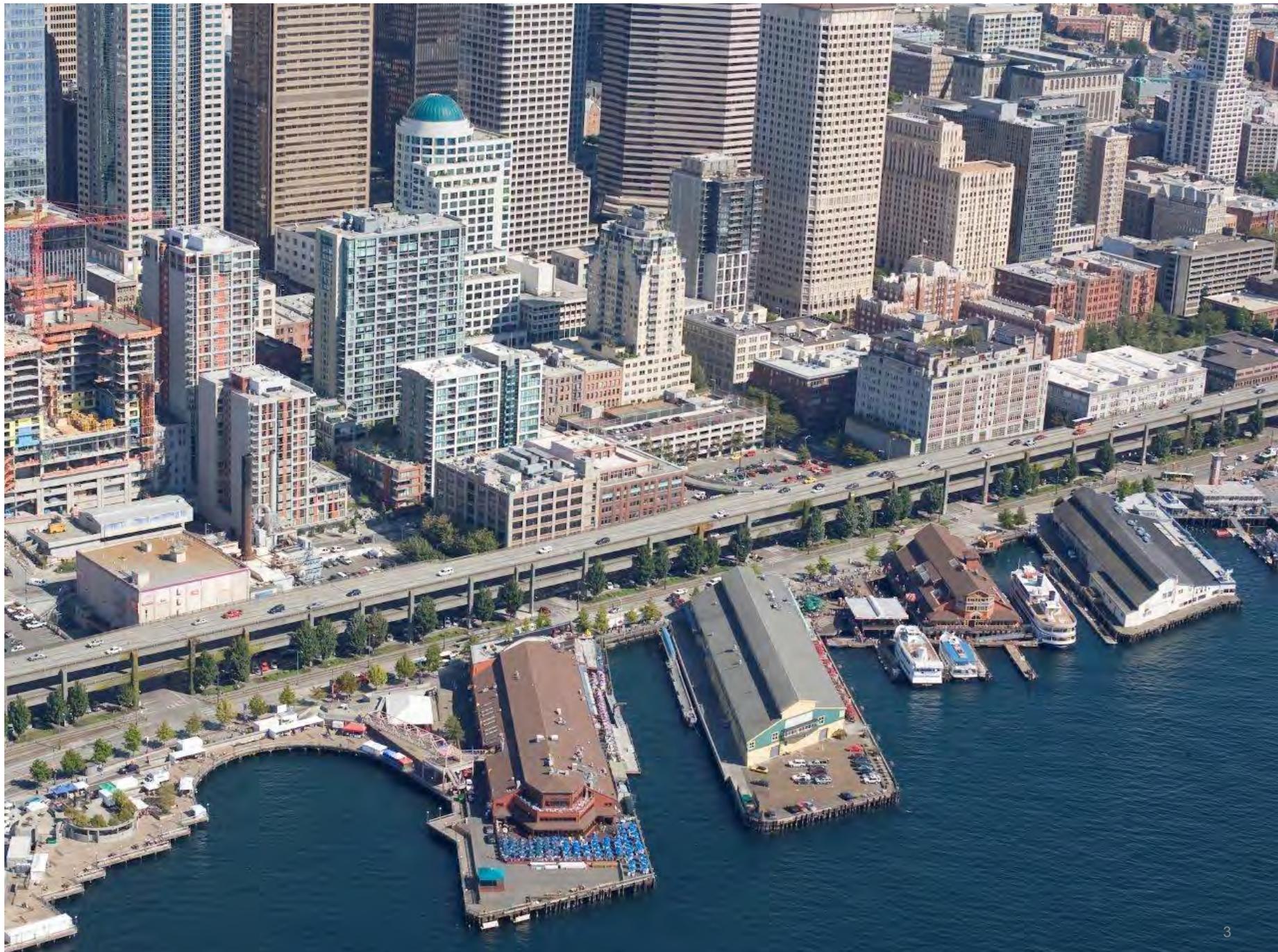
**Seattle's Waterfront  
History and  
Opportunity**

Helsinki  
November 2012

BCD

# The Seattle Process

- *The Seattle Weekly*, “The usual Seattle process of seeking consensus through exhaustion:” (1983)

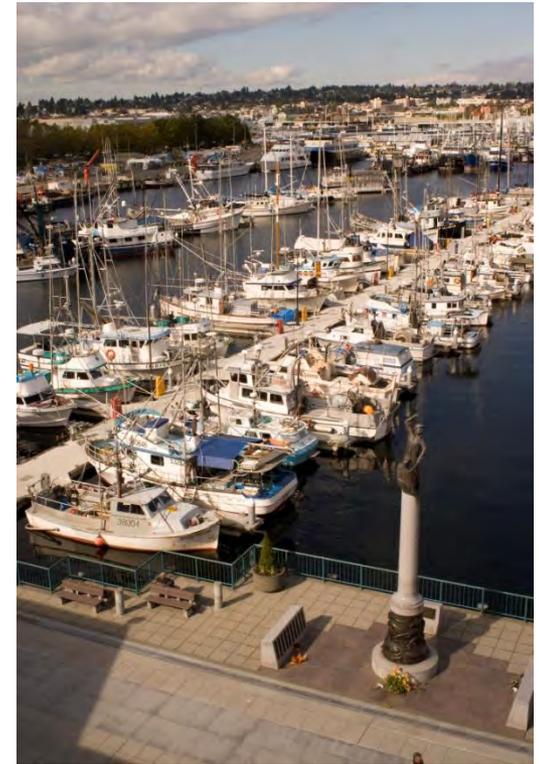


# Fisherman's Terminal



# Washington State Fishing

- 50% of US seafood uses Seattle
- 14,000 jobs, \$3.9B income
- WA catches most fish
- More 85+ ft vessels in WA than any state
- Many AK are owned by WA residents
- **Exports more fish than all others combined**



# SoDo Support Center



# 1951 Under Construction



# Opening



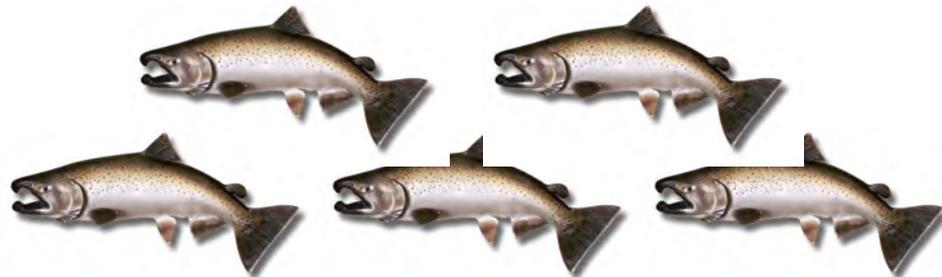
**Fishing Fleet**

**Industrial Zone**



# Data

- 237,000 workers downtown
- 27,000 residents
- 280,000 vehicles I5
- 110,000 vehicles 99
- 44% transit to work
- 25% drive
- 1% bike
- 3% walk
- 2M truck trips to port
- 70+ trains a day downtown
- 8M visitors to Pike Market
- 10M pax, 7M walk ons WSF
- 3.5M to Waterfront
- 2.5M to stadiums
- 900K cruise pax
- 8 species salmon (1M fish)



# 7M Pax Arrive by Ferries



# A Short History

- 1953 Viaduct opens
- 1985 Univ Washington engineers warning
- 2001 Nisqually Earthquake
- 2006 State evaluates 70+ alternatives
- 2007 Voters reject both final alternatives
- 2008 Stakeholder committee created
- 2009 Stakeholders reject, propose Tunnel + Transit
- 2009 Legislature, Governor, City, Port agree
- 2011 Voters accept Tunnel

# Alaskan Way Viaduct Stakeholders

## Interest Groups

Transportation Choices  
 FutureWise  
 People for Puget Sound

Sierra Club  
 People's Waterfront  
 Working Families Elevated  
 Allied Arts  
 Cascade Bike Club

## Labor

KCLC  
 ILWU

## Business

DSA  
 Chamber  
 Pike Place  
 Waterfront  
 Maritime  
 BINMIC  
 Stadiums  
 Manuf Ind Council

## Neighborhoods

NE & NW Seattle (2)  
 Southeast County  
 Belltown  
 Uptown  
 International District  
 Ballard/Fremont (2)  
 West Seattle (2)  
 Southwest County



# Alaskan Way Viaduct Guiding Principles

## 6 Principles and 27 Measures to Evaluated Alternatives

1. Improve Public Safety
2. Provide Efficient Movement of People and Goods, Now & Future
3. Maintain or Improve Economies: Seattle, region, port, state
4. Enhance Waterfront, Downtown, Neighborhoods for People
5. Solutions that are Fiscally Responsible
6. Improve Health of Environment



# Alaskan Way Viaduct Winnowing Scenarios

**January**

**June**

**December 11  
Hybrids Emerge**

**January 13**

- A Demand Mgmt/ Low Capital
- B Surface Boulevard AK Way
- C Alaskan Way Couplet
- D 4-Lane Elevated
- E Integrated Elevated
- F Bored Tunnel
- G 4-Lane Cut & Cover Tunnel
- H 4-Lane Lidded Trench
- I Alaskan Way Surface X-Way
- J Retrofit
- K Elliott Bay Bridge

- Demand
- Surface
- Couplet
- Elevated
- Integrated
- Bored Tunnel
- Cut & Cover
- Trench

- Couplet
- Elevated

- Bored Tunnel  
+ Transit



# The Tunnel + Transit Solution

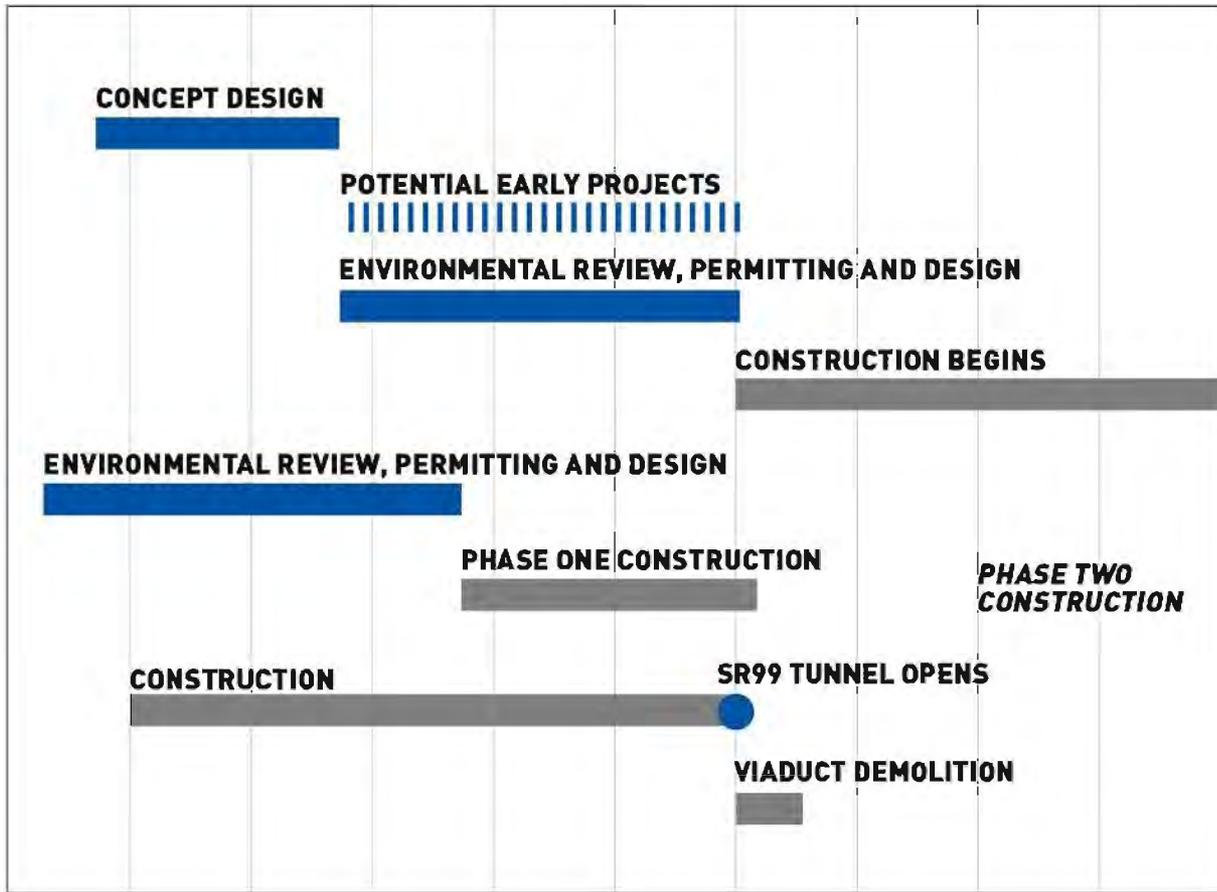
|  | Proposed Project Implementation Responsibility |                      |                      |                      | Costs                 |
|--|--|----------------------|----------------------|----------------------|-----------------------|
|  | State  | King County MVET     | City of Seattle      | Port of Seattle ***  |                       |
| Moving Forward and Prior Expenditures    | \$600 million                                  |                      |                      | \$300 million        | \$900 million*        |
| SR 99 Bored Tunnel                       | \$1.9 billion**                                |                      |                      |                      | \$1.9 billion         |
| Alaskan Way Surface Street and Promenade | \$290 million                                  |                      | \$100 million        |                      | \$390 million         |
| Central Seawall                          |  |                      | \$255 million        |                      | \$255 million         |
| Utility Relocation                       |  |                      | \$250 million        |                      | \$250 million         |
| City Streets and Transit Pathways        |  | \$25 million         | \$190 million        |                      | \$215 million         |
| Transit Infrastructure and Services      |  | \$115 million        | \$135 million        |                      | \$250 million         |
| Construction Transit Service             | \$30 million                                   | \$50 million         |                      |                      | \$80 million          |
| <b>Total</b>                             | <b>\$2.82 billion</b>                          | <b>\$190 million</b> | <b>\$930 million</b> | <b>\$300 million</b> | <b>\$4.24 billion</b> |
| Transit Operations Annual Cost           |  | \$15 million         |                      |                      | \$15 million          |

2010 2011 2012 2013 2014 2015 2016 2017 2018 2019

**WATERFRONT SEATTLE**

**ELLIOTT BAY SEAWALL PROJECT**

**SR 99 TUNNEL**



- = DESIGN
- = CONSTRUCTION
- = MILESTONE
- = POTENTIAL\*

\*Could Include:  
 Improved east-west pedestrian connections  
 Railroad Way S. pedestrian street  
 Pedestrian bridge at Vine St & Hillclimb assist at Union St  
 Waterfront Park, Pier 62/63

2010 2011 2012 2013 2014 2015 2016 2017 2018 2019

# New Committees & Process!

- South Portal Committee **20 members**
- North Portal Committee **18 members**
- Central Waterfront Committee **34 members**
- --Design Committee **12 members**
- --Park Operations **8 members**
- --Public Outreach **12 members**
- --Finance **6 members**
- Waterfront Parking Committee **35 members**
- Seawall Stakeholders Com **45 members**
- Waterfront Tolling Commission **15 members**

## Program Overview

The Alaskan Way Viaduct Replacement Program includes projects led by the Washington State Department of Transportation, City of Seattle, King County and Port of Seattle.



# Largest Bored Tunnel Ever

## **Tunnel:**

- 57' diameter, single bore tunnel.
- Two lanes of traffic each way
- Approximately 9,000 ft long
- Between 30 and 200 feet down
- Dig in 2013; open to drivers 15.

## **Alaskan Way surface street:**

- Four-lane roadway with two lanes in each direction.
- Carries approximately 25,000 vehicles per day.



# Biggest Boring Machine

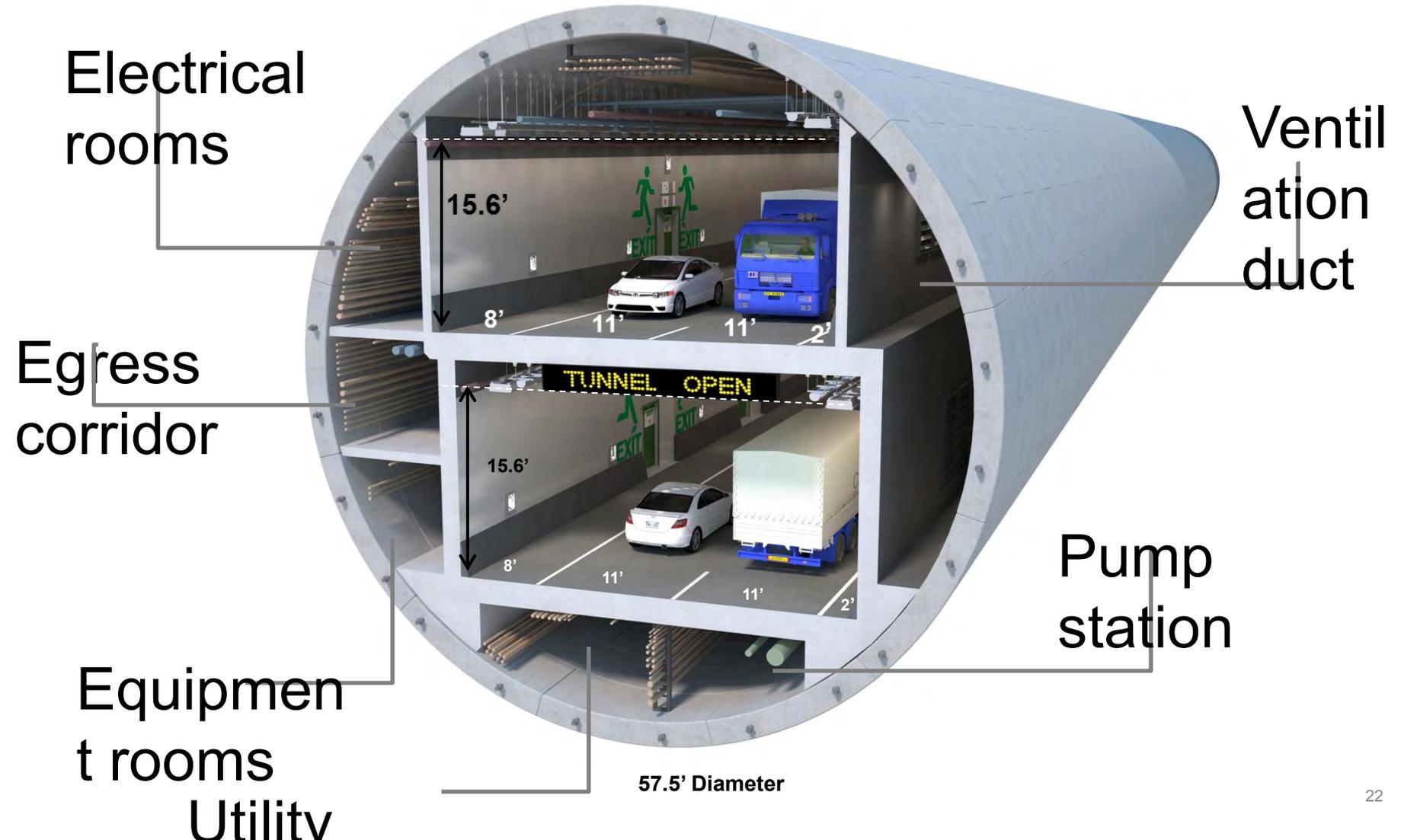
WS Ferry Wenatchee



Boring Head



## Tunnel Design



# More Transit



WATERFRONT TRANSIT FRAMEWORK



-  Light Rail
-  Transit Tunnel Stations
-  Bus Transit Spine and Pathways
-  Madison Street HCT Corridor
-  Existing and Planned Streetcar
-  Alternative Center City Connector Corridors
-  SW Transit Pathway Options
-  Frequent Trolley Bus Routes
-  Waterfront Connector

# Some Waterfront Park Issues

- 150 ft elevation change
- 9,000 to 25,000 vehicles/day street
- 15 ft tides, rising sea levels
- Overheight, Overlimit, Hazmat truck route
- 1M Salmon Spawning
- Who can pay in recession?
- 7M ferry pax

# James Corner Field Ops

# After the Fall

CONTINUOUS ELEMENTS ALASKAN WAY, ELLIOTT WAY AND THE TIDELINE PROMENADE



# The North Waterfront

PLACES ALONG THE WATERFRONT UNION STREET PIER, AQUARIUM PLAZA, PIER 62/63, OVERLOOK WALK AND THE BELLTOWN BLUFF



# Connecting Pike Market & Water

OVERLOOK WALK



# Overlook Walk Detail

PLAY SLOPES



# New Pier 62-63

AMPHITHEATER STEPS OVERLOOKING PIER 62/63



# New Pier 62-63

VIEWS TO CITY FROM PIER 62/63



# New Roller Rink P62-63

ROLLER SKATING RINK



# Aquarium Classrooms



# Aquarium Doubles



# Bikes, Peds, Vehicles

LONG-TERM PROJECT HALF-MILE PROMENADE



# Mist Cloud—New Union Pier

MIST CLOUD



# Mistless Cloud

UNION STREET PIER



# Promenade, Gardens, Piers--S

TIDELINE PROMENADE



# Promenade, Gardens, Piers--N

GARDEN TERRACES



# New Beach at South End

SEAWALL BEACH AND BOARDWALK



# From Atop New Concert Pier

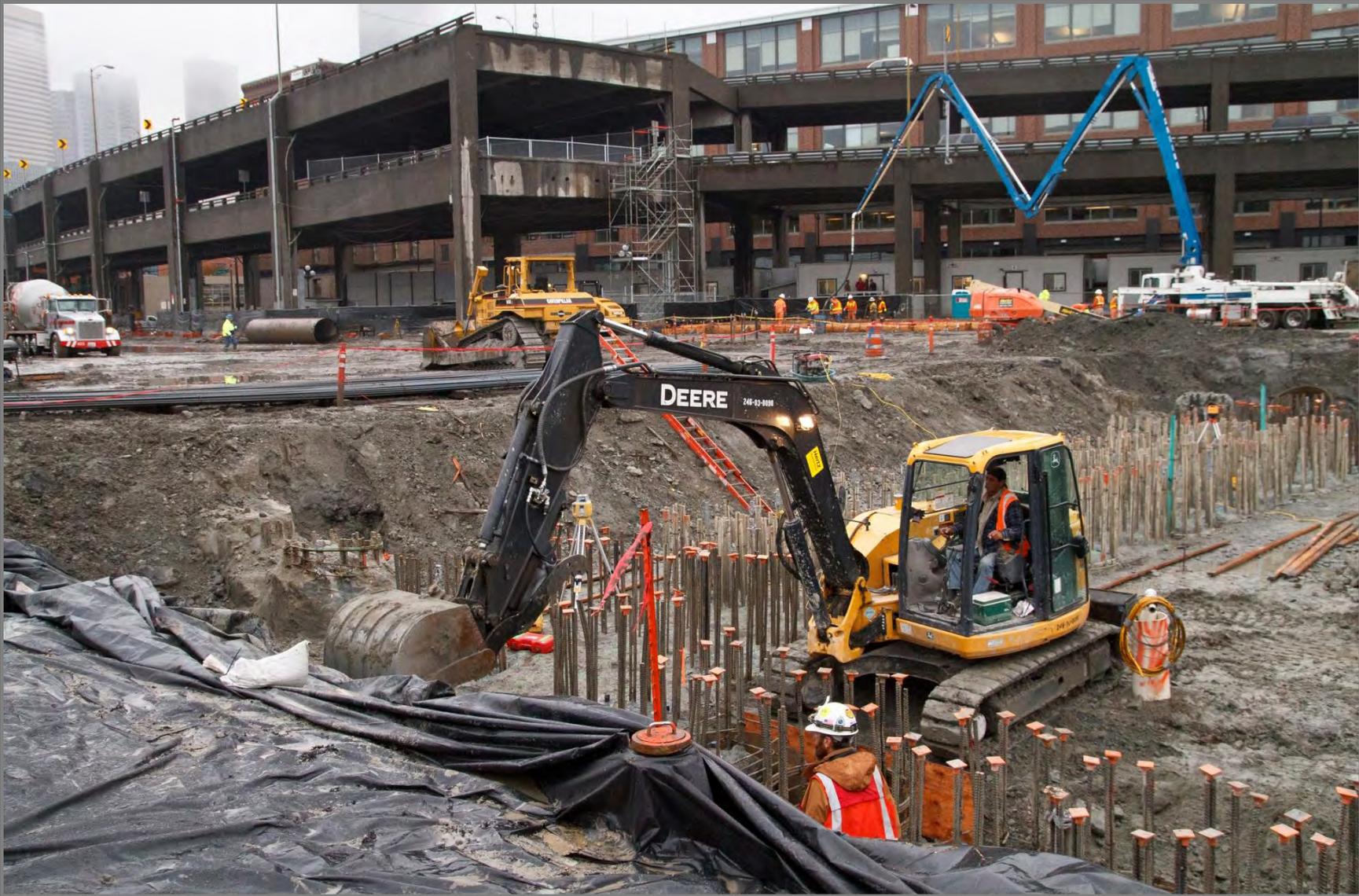
LONG-TERM PROJECT CONCERTS AT THE AMPHITHEATER



# Open Issues

- Seawall Bond passed with 75% vote
- Funding of Park Phase—city, philanthropy
- LID financing to come
- Seek Endowment to Operate Park
- Redevelopment of Washington Ferry Terminal
- The Concert Pier

# Next Steps



# Thanks

- Washington Dept of Transportation
- Seattle Dept of Transportation
- Metro—King County
- Vigor Shipyard
- Paul Dorpat
- James Corner Field Operations
- Port of Seattle
- Seattle Marine Business Coalition
- All Voting Members of the Academy
- Washington State Ferries
- Seattle Aquarium
- Pike Place Market
- Seattle Historic Waterfront Assn