

# BEFORE THE JOINT COMMITTEE ON TRANSPORTATION

– HB 2749



11 April 2025

**Co-Chair Senator Chris Gorsek**

**Co-Chair Representative Susan McLain**

**Co-Vice Chair Senator Bruce Starr**

**Co-Vice Chair Representative Shelley Boshart Davis**

**Members of the Committee**

**Total support** for HB 2749, noting that Ways and Means has no possibility of funding secure transportation infrastructure in Oregon, for infrastructure never built to current seismic compliances

## Our concern:

Section 2. “The City of Portland is encouraged to seek and apply for federal funding to aid in the design and construction of a bridge across Columbia Boulevard.” Infrastructure funds are impounded under Federal EO 14154.

Today we find that funds appropriated by the 2021 Bipartisan Infrastructure Law (\$739B) are impounded together with the 2022 Inflation Reduction Act funds (\$1.2T), illegally contradicting Congressional mandates.

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What DC attorneys say about IRA and IJIA funds

- Funds were blocked, then released for some appropriations
- No funds are being disbursed, State AGs have sued

<https://www.arnoldporter.com/en/perspectives/advisories/2025/02/funding-pauses-and-uncertainty-under-ira-and-ijia>

What ODOT says about IRA and IJIA impoundments:

“Bridge funding provided under the IJIA is one of the types of funds for which all new obligations are on hold.”

<https://www.oregon.gov/odot/about/pages/federal-funding-eo-pause.aspx>

- This means that any critical fuels or rail infrastructure bills will not be funded, indefinitely
- These bills are on a death march to W&M

So, we need a bill to outlaw any Cascadia tectonic disasters until Congress can solve the Exec Branch holdups. \$\$\$\$ Holdups.

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Oregon Critical Infrastructure  
Serving Multnomah North Peninsula Communities

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What is the impact of these findings on Oregon business development and state economy?

The predicted and inevitable tectonic megaquake will result in guaranteed infrastructure collapse for 90% of Oregon transport fuels. Bad for business.

Build a boat after the storm? Infrastructure needed in the aftermath of an inevitable Cascadia megaquake is not being prepared to survive:

- Washington State fuels pipeline to the Portland CEI Hub will fail 100%
- The CEI Hub will fail 100% from any M8 or M9 event
- Petroleum smoke and chemical fumes will threaten North Peninsula industry and residents
- Simultaneous collapse of seismically non-compliant 100-year-old rail overpasses will strand all eastward escape routes
- No viable routes to north, west or south

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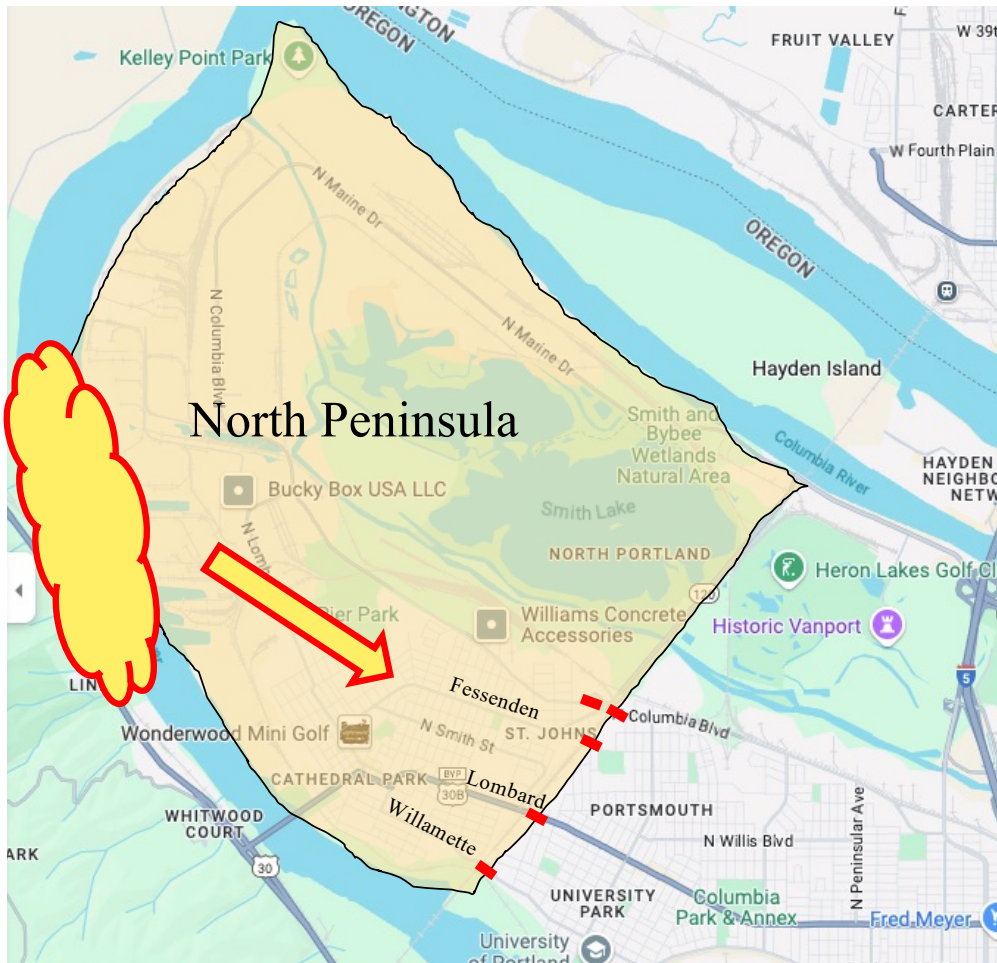
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No one is arguing that the North Peninsula is not THE most threatened Community for stranding from infrastructure collapse – no eastward escape routes. Population 30,000

Threats not being disputed:



- CEI Hub seismic collapse, with fire, toxic smoke and chemical plume releases
- Simultaneous bridge failures ■ at Portsmouth rail cut: 4 BNSF rail overpasses with no seismic compliances, all > 100 yrs with no retrofits
- No enforceable USDOT infrastructure mandates, no stockholder due diligence.
- Successful externalized risk by Berkshire Hathaway
- 2021 BIL impounded
- 2022 IRA impounded



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North Columbia Blvd  
Road Bridge Overpass



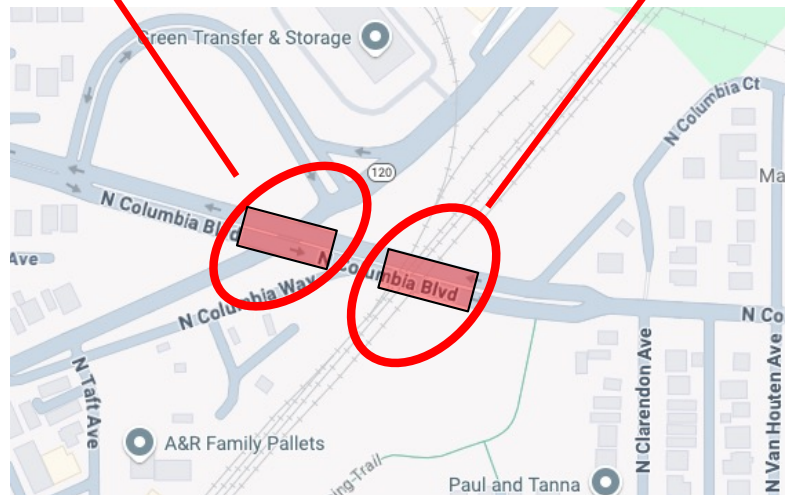
PBOT, 1968  
Age 56 years

North Columbia Blvd Bridge  
BNSF Rail Overpass



BNSF, 1909  
Age 115 years

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Two bridges  
Total PBOT replacement cost:  
\$57.5M (2027 dollars)  
Emergency plan  
**No funding**

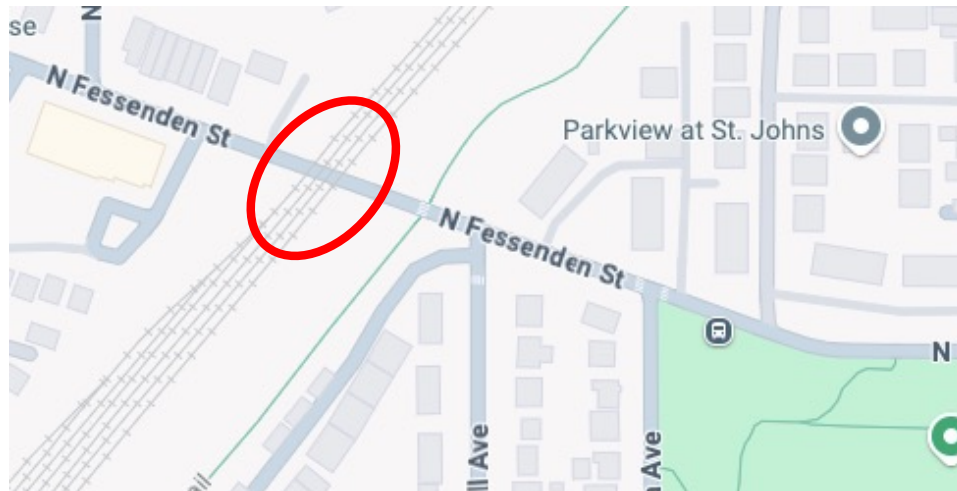
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### Fessenden Street Bridge



BNSF 1909  
Age 115 years  
Replacement cost  
\$37M (2027 dollars, **no plan**)

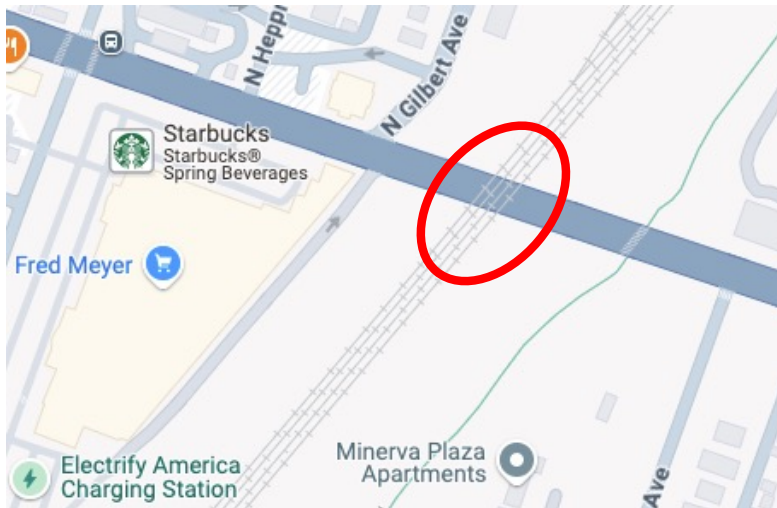
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### North Lombard Street Bridge



BNSF 1908  
Age 116 years  
Replacement cost  
\$37M (2027 dollars, **no plan**)



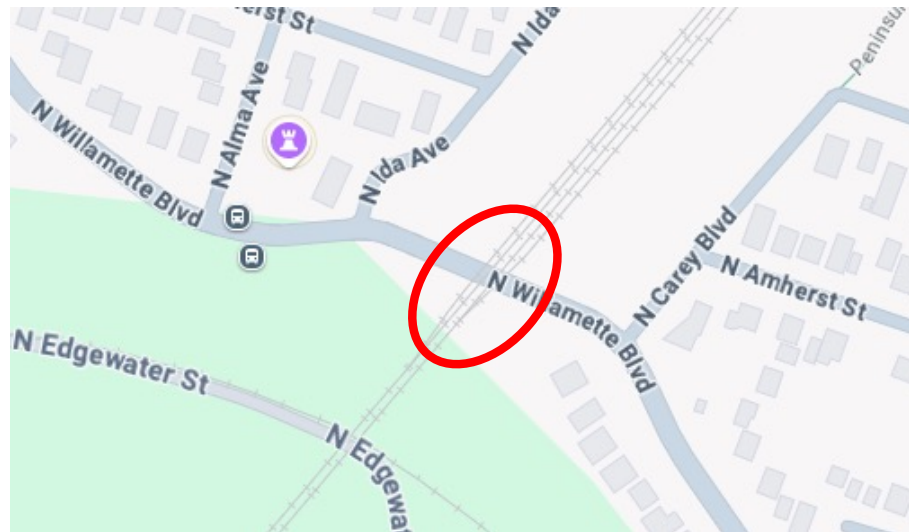
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North Willamette Blvd Bridge



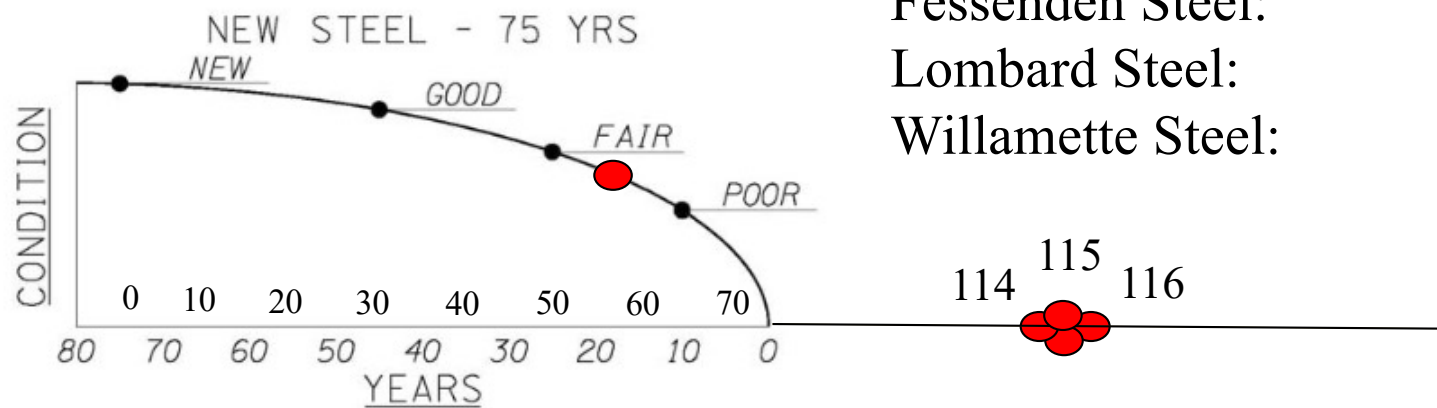
BNSF 1907  
Age 117 years  
Replacement cost  
\$37M (2027 dollars, **no plan**)

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**OREGON RAIL BRIDGE ASSESSMENTS**  
**FINAL REPORT OF STUDY FINDINGS**



Columbia BNSF Rail Overpass: 115  
Columbia PBOT Road Overpass: 56  
Fessenden Steel: 115  
Lombard Steel: 116  
Willamette Steel: 114

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Oregon Legislature Joint Committee on Transport, 4 June 2024

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Donna Cohen, St. Johns

<https://olis.oregonlegislature.gov/liz/2023I1/Downloads/CommitteeMeetingDocument/284340>

SJNA, PBOT Zef Wagner

<https://olis.oregonlegislature.gov/liz/2023I1/Downloads/CommitteeMeetingDocument/284447>

RJ Demello

<https://olis.oregonlegislature.gov/liz/2023I1/Downloads/CommitteeMeetingDocument/284554>

Oregon Critical Infrastructure Serving North Portland  
Industries and Communities

[https://historicbridges.org/b\\_a\\_list.php?ct=&c=&ptype=county&pname=Multnomah+County,+Oregon](https://historicbridges.org/b_a_list.php?ct=&c=&ptype=county&pname=Multnomah+County,+Oregon)

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Oregon Critical Infrastructure  
Serving Washington County and Coast Communities

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What is the impact of these findings on Oregon business Development and state economy?

The predicted and inevitable tectonic megaquake will result in guaranteed infrastructure collapse for 90% of Oregon transport fuels. Bad for business.

Build a boat after the storm? Infrastructure needed in the aftermath of an inevitable Cascadia megaquake is not being prepared to survive:

- Washington State fuels pipeline to the Portland CEI Hub will fail 100%
- The CEI Hub will fail 100% from any M8 or M9 event
- No fuel resupply for Washington County with empty Hub tanker trucks
- Rail bridges for Washington County fuel resupply will fail 100%
  - Of 5 river crossings, 3 are >100 years old, none are seismic compliant
- Washington County cannot provide relief to 160 miles of coastline after seismic destruction followed by 40-100 ft tsunami devastation



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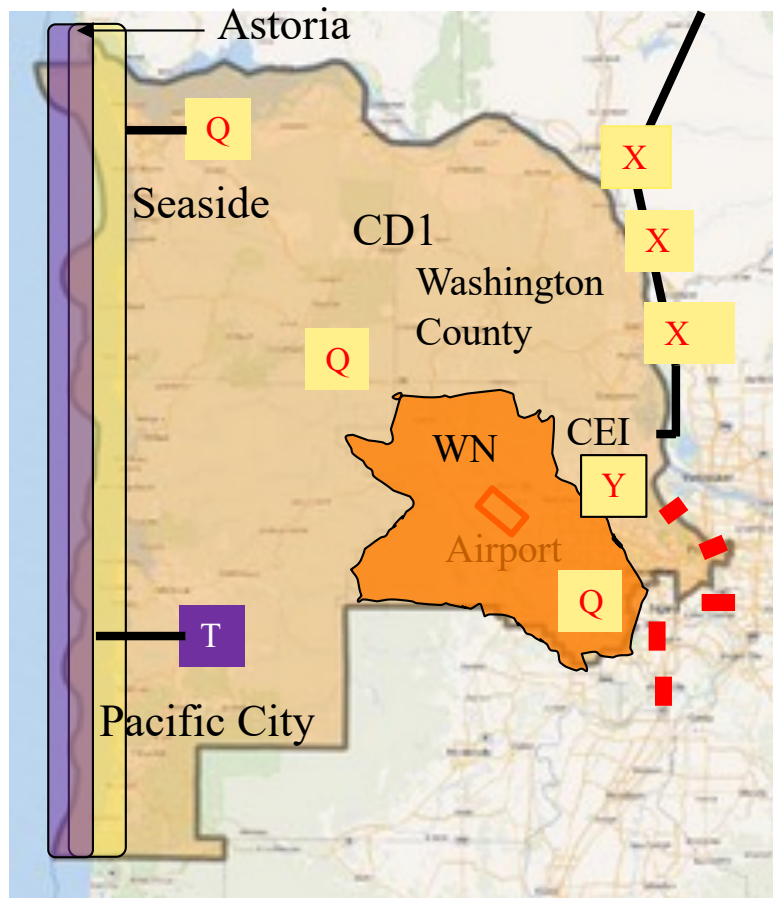
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No one is arguing that Washington County is not THE most threatened in Oregon for fuel insecurity. Population 598,000

First Congressional District on Seismic Day Zero – **and all at the same time**



- Failed rail bridges preclude fuel delivery
- X Olympic Pipeline failure  
Strands Oregon
- Y CEI Hub collapse  
Ends tanker truck logistics to CD1
- Q Quake collapse  
Closes Columbia at Astoria Bridge  
Damages coastal infrastructure  
Extensive coastal road/bridge loss  
Extensive utility damage  
Damages Wash Co infrastructure  
Damages bridges, maybe utilities
- T Tsunami  
Re-damages coastal infrastructure  
More coastal road/bridge loss  
More utility loss

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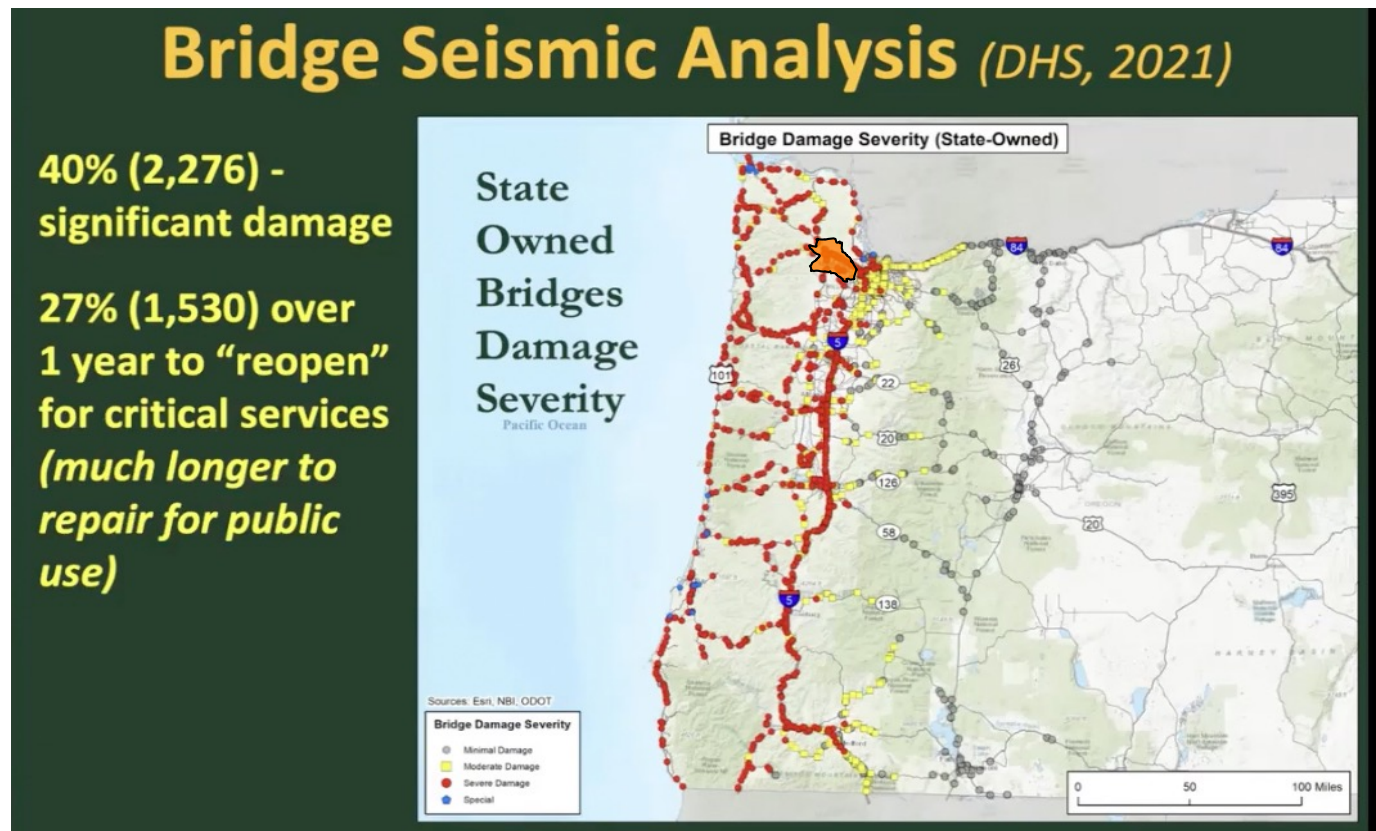
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DHS CISA has predicted the coastal conditions and consequences for Washington County highway bridge and overpass damage.

Argonne National Lab (CISA), Modeled 9.0



<https://publications.anl.gov/anlpubs/2021/09/170001.pdf>

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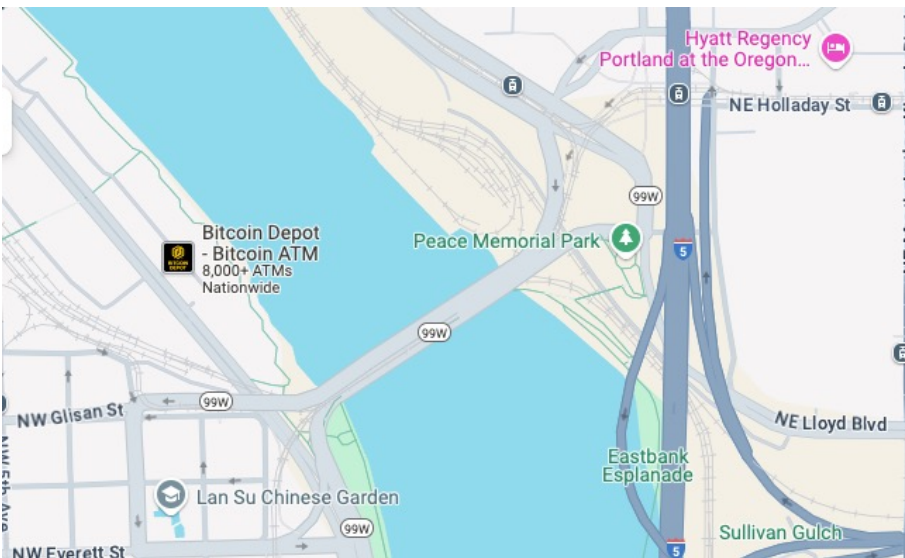
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Portland Steel Bridge  
Freight rail lower deck



1912

Union Pacific

Cascadia threat discovered 2010

New approaches 1950

Age in 2024: 112 yrs

What are the retrofits?

**No plan**



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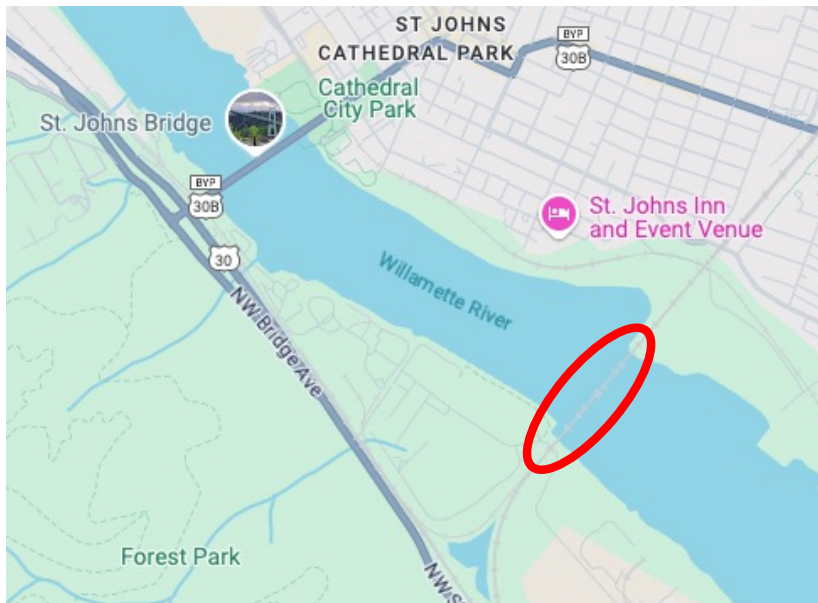
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BNSF Railway Bridge 5.1  
St. Johns



Silver spans - 1908

Weathered rust – 1989

Cascadia threat discovered 2010

For approaches, age in 2024: 116 yrs

What are the retrofits?

No plan

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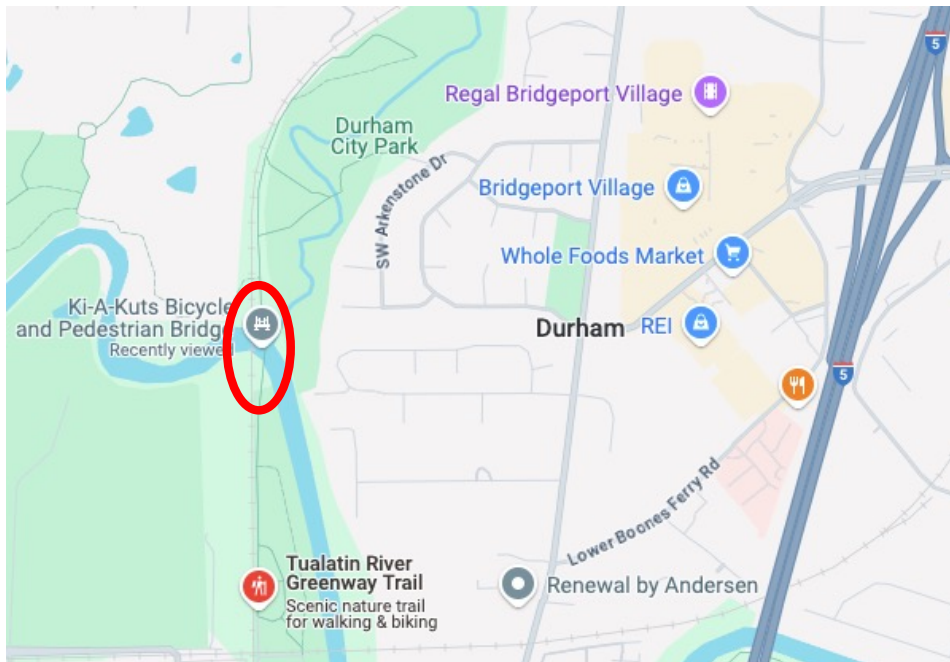
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Tualatin Railroad Bridge – Milepost 35.3



Prior to 1968  
Portland and Western Railroad (PNWR)  
Garden Home to Wilsonville Bridge  
- Tualatin River  
Cascadia threat discovered 2010  
Age in 2024: at least 56 yrs  
What are the retrofits?

**No plan**



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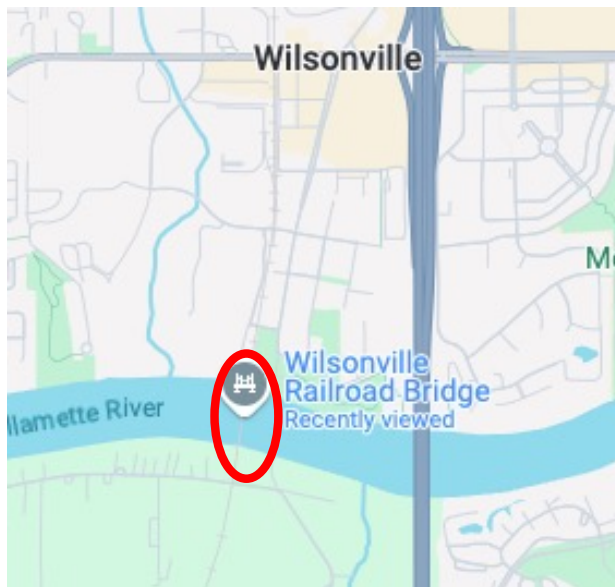
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Willamette Rail Bridge - Wilsonville



1975

Portland and Western Railroad (PNWR)

Cascadia threat discovered 2010

Age in 2024: 49 years

What are the retrofits?

**No plan**

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Oak Grove – Lake Oswego  
Railroad Bridge



1910

Portland and Western Railroad (PNWR)

Cascadia threat discovered 2010

Age in 2024: 114 yrs

What are the retrofits?

**No plan**

PNWR acquired by Genesee and  
Wyoming (GW) in 1995

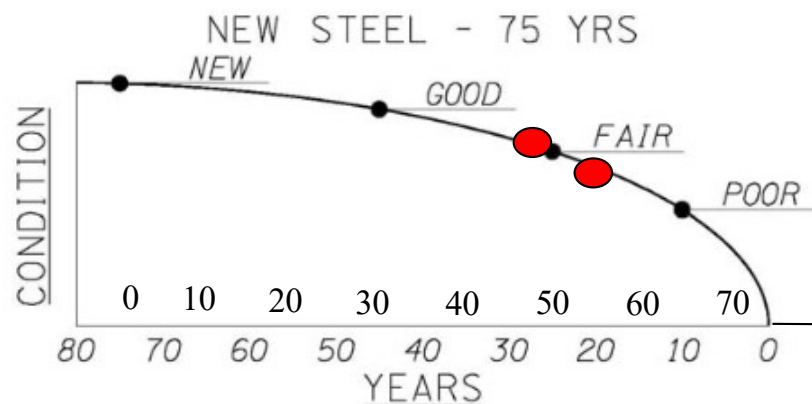
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## OREGON RAIL BRIDGE ASSESSMENTS FINAL REPORT OF STUDY FINDINGS



BNSF St. John's approaches: 116  
UP Steel: 112  
Tualatin MP 35.3: 56 +?  
Wilsonville: 49  
Lake Oswego: 114

112 114 116

Note: None of these bridges seem to be designed for seismic compliance



Lake Oswego approaches: 114

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## Alternate Fuel Sources to Oregon

### Priority for Salem Ways and Means

- Infrastructure rebuild costs after the fact are at least 10x the cost of mitigation
- Waiting for post-event investment is a known inflation driver

National Institute of BUILDING SCIENCES™		ADOPT CODE	ABOVE CODE	BUILDING RETROFIT	LIFELINE RETROFIT	FEDERAL GRANTS
Overall Benefit-Cost Ratio		11:1	4:1	4:1	4:1	6:1
Cost (\$ billion)		\$1/year	\$4/year	\$520	\$0.6	\$27
Benefit (\$ billion)		\$13/year	\$16/year	\$2200	\$2.5	\$160
 Riverine Flood		6:1	5:1	6:1	8:1	7:1
 Hurricane Surge		not applicable	7:1	not applicable	not applicable	not applicable
 Wind		10:1	5:1	6:1	7:1	5:1
 Earthquake		12:1	4:1	13:1	3:1	3:1
 Wildland-Urban Interface Fire		not applicable	4:1	2:1	not applicable	3:1

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**TABLE 1.** Nationwide average benefit-cost ratio by hazard and mitigation measure. BCRs can vary geographically and can be much higher in some places. Find more details in the report.

[https://www.nibs.org/files/pdfs/ms\\_v3\\_adopts\\_earthquake.pdf](https://www.nibs.org/files/pdfs/ms_v3_adopts_earthquake.pdf)

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Post-Cascadia megaquake chaos multiplier x10

### NP Egress Bridges

PBOT Columbia Overpasses:	\$58M	\$580M
BNSF Fessenden Steel:	\$37M	\$370M
BNSF Lombard Steel:	\$37M	\$370M
BNSF Willamette Steel:	\$37M	\$370M

### CD1 Fuel Security Bridges

Portland “Steel Bridge” est*	\$900M	\$9,000M
BNSF Bridge 5.1 est*	\$900M	\$9,000M
PNWR Tualatin	\$40M	\$400M
PNWR Willamette	\$40M	\$400M
PNWR Oak Grove-Oswego	<u>\$40M</u>	<u>\$400M</u>
	\$2,089M	\$20,890M
	\$2.1B	\$21B

Annual Federal petro subsidies \$20.0B

\* Burnside Mechanical Bridge replacement estimate is \$900M, 5 years



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The likelihood of the Cascadia megaquake factors into Oregon bond ratings: more risk means more debt service cost. Oregon and Washington policymakers have adopted the 50-year risk math employed in civil engineering as design-to standards for bridges, buildings, other infrastructure projects that are designed for 50-year lifetimes.

As a way to assure public safety ? - Not a great idea. To protect the public, we get a better idea of risk by looking at the 10,000-year Cascadia history and seeing what it means, starting with the last such event in 1700. The average event repeat interval is 246 years. This means the risk was 50/50 in 1946 – and higher today.

It is easy enough to check off all the historical repeat intervals that have already been exceeded by the quiet time since 1700. The total number of those exceeded in 2018 is 83%. This is not statistical math. It is middle school math.

If you run a time-sensitive lognormal model, you get similar numbers. Not good for bonds. Employing this math (80% chance of default) would not be very popular. It is not however refutable.

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Every day, the unacknowledged extremely high risk of sudden critical infrastructure collapse increases.

- No need to prove this
- There is an urgent compelling demand to disprove it, if you can

Insurance actuaries studied climate change, no action.

- After predictable wildfires they suddenly suspended new coverage, cancelled existing contracts.

Insurers and reinsurers will expertly tell you what's happening after it happens. Time to wise up.

Every day is a bet Oregon cannot afford.



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Our testimony to the House Emergency Management Committee supporting many of their infrastructure bills has not been acknowledged or acted on. Example:

<https://olis.oregonlegislature.gov/liz/2025R1/Downloads/PublicTestimonyDocument/134265>

We believe HB 2749 is an example of another emergency bill that is on a death march to W&M (no possibility of federal funding). Expanding it to save Washington County and the coast is absolutely critical, and it would have no chance with W&M.

Q: Who in the US Executive Branch as 6 bankruptcies and believes all FEMA disaster claims can be carried by the States who by law must report balanced budgets?

Q: Is bankruptcy the new pandemic?

What is the Ways and Means survival plan considering the physical and financial stranding of Washington County and the coast before and after Cascadia M8 ?

Respectfully, Tracy Farwell, HD-46, Sustainability Desk, Better Energy LLC