May 20, 2022

**Bi-state Legislative Committee** 

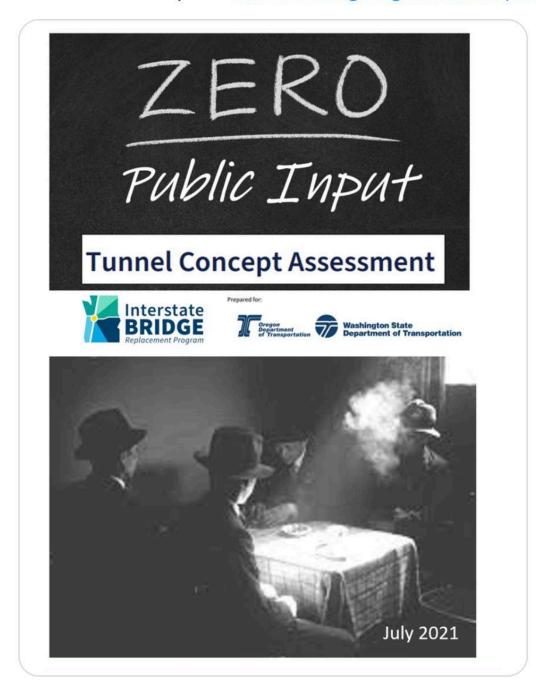
The Interstate Bridge Replacement Program (IBR) is promoting a slightly modified Columbia River Crossing bridge design. This design is from the 1960's. It has massive half-mile-long elevated interchanges with dangerously steep looping on and off-ramps to elevate traffic 150 feet over the Columbia River.

An immersed tunnel is simpler, safer, and has less cost and environmental impact. The IBR continues to lie to the public and political leaders about the feasibility of an immersed tunnel.

Please study the attached material. More comments at Twitter @BOrtblad

Respectfully Bob Ortblad MSCE, MBA

With ZERO public input, directed by the IBR, a cabal of bridge consultants issued a misleading "Tunnel Concept Assessment" that disqualified an immersed tunnel option. interstatebridge.org/media/4ivnpz3n...

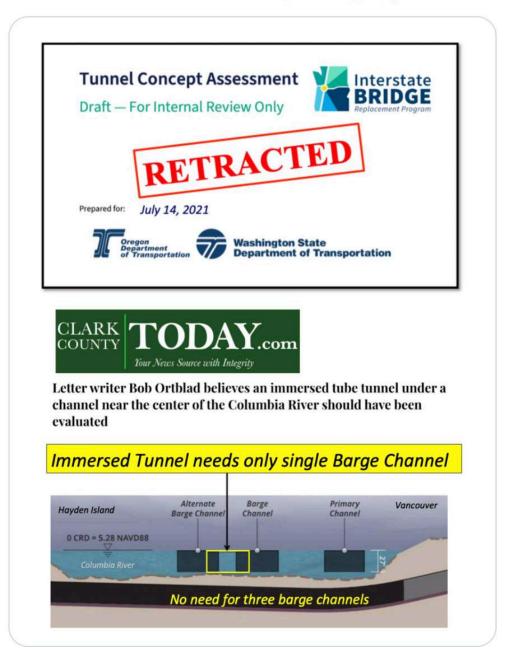


#### Bob Ortblad @BOrtblad · 27m

The IBR must retract its misleading "Tunnel Concept Assessment"

Clark County TODAY.com Letter to Editor Oct. 6, 2021 clarkcountytoday.com/opinion/letter...

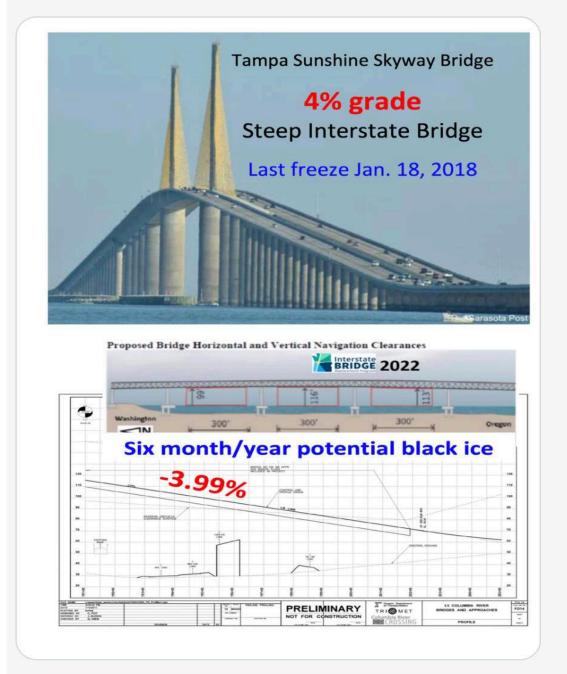
@USDOTFHWA @FTA\_DOT @USCGPacificNW @PortlandCorps @EPAnorthwest @VancouverUS @trimet @oregonmetro @lbrProgram



Tampa Bay has steepest interstate bridge 4%, but never black ice

New High I-5 Bridge at 3.99% has potential black ice 6 months/year & will be a killer

@EPAnorthwest @USDOTFHWA @FTA\_DOT @USCGPacificNW @PortlandCorps @trimet @ctranvancouver @VancouverUS @lbrProgram @oregonmetro



## **Bob Ortblad** @BOrtblad · May 14 IBR repeatedly tweets bridge sidewalks are too narrow

IBR fails to mention the extreme climb a high bridge will require

@USDOTFHWA @FTA @USCGPacificNW @PortlandCorps @EPAnorthwest @VancouverUS @trimet @oregonmetro @ctranvancouver @lbrProgram @BikePortland @justcrossingall



### Bob Ortblad @BOrtblad · May 8 SR14 access to + 120' High Bridge will be terrible

+ 6% spiral on-ramp twitter.com/BOrtblad/statu... -7% off-ramp twitter.com/BOrtblad/statu... Immersed Tunnel ground level access twitter.com/BOrtblad/statu...

#### @EPAnorthwest @USDOTFHWA @FTA\_DOT @VancouverUS @oregonmetro @lbrProgram @portvanusa



The IBR is repeating past mistakes. Its bridge and approaches are from the 1950's.

An Immersed Tunnel would have no elevated approaches, with portals a 1,000' from the riverfront

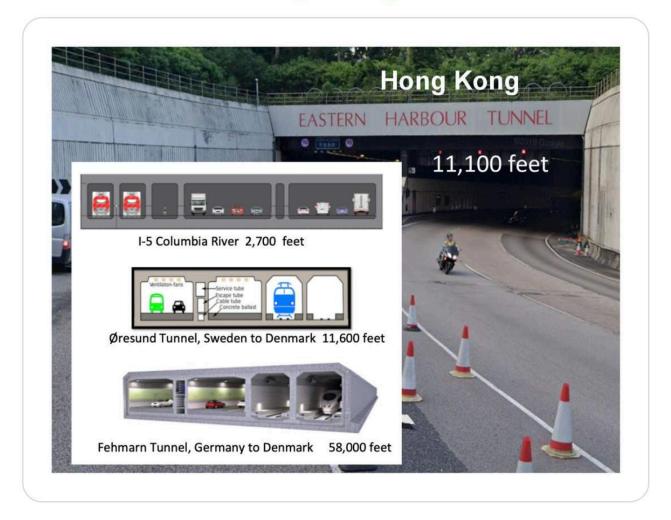
@EPAnorthwest @USDOTFHWA @FTA\_DOT @USCGPacificNW @PortlandCorps @VancouverUS @IbrProgram @orgonmtro



## **Bob Ortblad** @BOrtblad · May 6 The IBR has selected light rail & 8 lanes

An Immersed Tunnel better than a High Bridge for rail & traffic, 75' dip under vs. 150' climb, 1/2 distance, plus riverfront stations

@trimet @ctranvancouver @EPAnorthwest @USDOTFHWA @FTA\_DOT @USCGPacificNW @PortlandCorps @lbrProgram



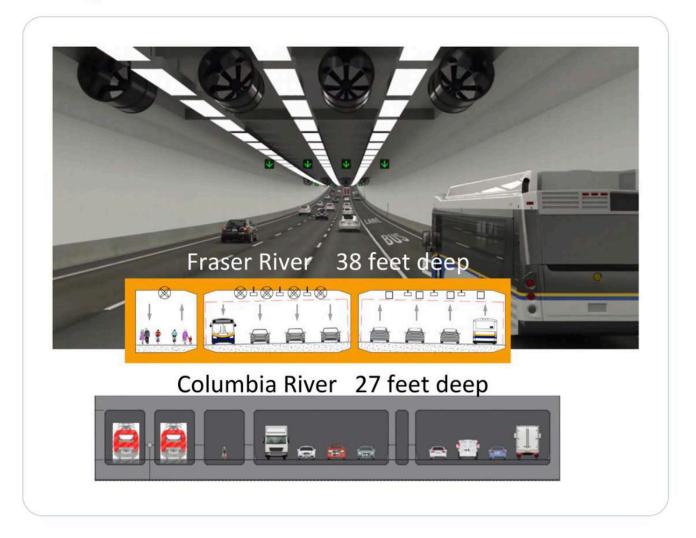
British Columbia has an engineering firm designing an 8-lane immersed tunnel for the Fraser River

#### COWI

### cowi.com/about/news-and...

OR-WA Joint I-5 Committee should invite this firm to review the Columbia River site

# @USDOTFHWA @FTA\_DOT @USCGPacificNW @PortlandCorps @lbrProgram



Federal agencies will see the advantages of Columbia River I-5 immersed tunnel.

@FAANews @USCGPacificNW @PortlandCorps @EPAnorthwest @USDOTFHWA @FTA\_DOT @NHTSAgov @lbrProgram @VancouverUS @oregonmetro @trimet @ctranvancouver @PortOfPortland @portvanusa

 Federal agencies will see the advantages of immersed tunnel.

 FAA
 clear air path

 USCG
 navigation clearance, no piers

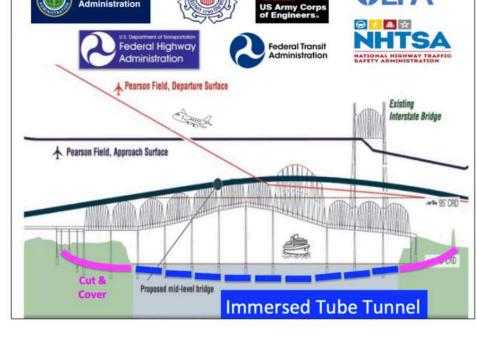
 USACE
 center channel, less dredging

 EPA
 restored river & riverbank

 FHWA
 \$1 billion saved on riverbank interchanges

 FTA
 riverbanks rail stations, less grade

 NHTSA
 protection from weather, safer grades

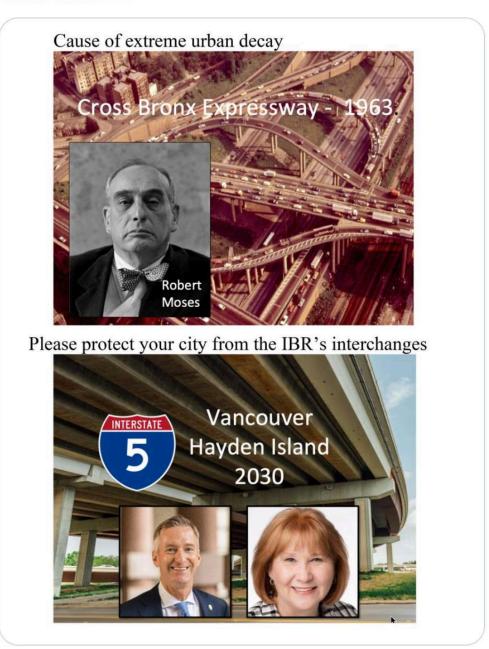


Interstate Bridge Replacement elevated interchanges will devastate Hayden Island & Vancouver

An immersed tunnel needs no elevated interchanges and will allow riverfront parks

twitter.com/BOrtblad/statu...

@tedwheeler @AnneOgle @lbrProgram @oregonmetro @EPAnorthwest @USDOTFHWA

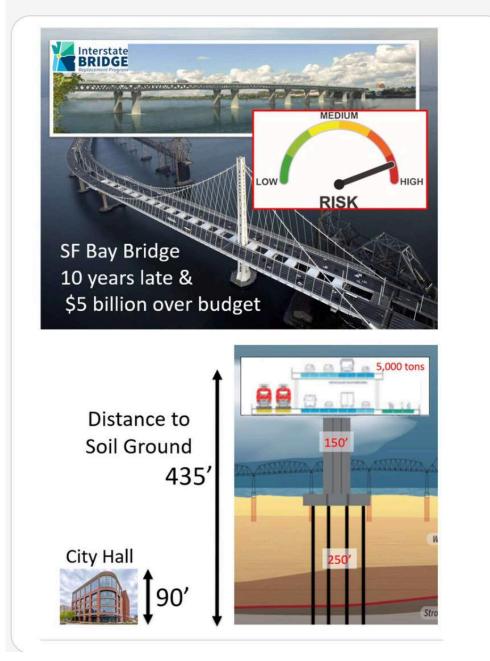


The Columbia River bottom is 250' of soft sediment, a risky & costly site for an earthquake resistant bridge, like SF Bay Bridge

Traffic 400' from soil ground during liquefaction

Immersed Tunnel less risky, costly

# @USDOTFHWA @FTA\_DOT @USCGPacificNW @PortlandCorps @IbrProgram



**Bob Ortblad** @BOrtblad · May 15 Immersed Tunnel is a better Modified LPA interstatebridge.org/nextsteps?v=\_K...

Less impact on Hayden Island, less distance & grade for transit & traffic, weather protected, ground level Columbia Way LRT station @USDOTFHWA @FTA @USCGPacificNW @PortlandCorps @EPAnorthwest @trimet @lbrProgram



British Columbia & Denmark both selected an immersed tunnel, less cost than a bridge twitter.com/BOrtblad/statu... @USDOTFHWA @FTA\_DOT @USCGPacificNW @PortlandCorps @EPAnorthwest @VancouverUS @trimet @oregonmetro @lbrProgram @justcrossingall

