

Agenda

01

Existing Bridge -Capital Maintenance Plan

Discussion

02

Bridge Replacement Project Strategy

Discussion

03

Key Questions & Project Communications

Discussion

The first obligation of the Port is to keep the bridge safe and operational for as long as possible.

The second obligation of the Port/BSWG is to do everything it can to ensure that a new bridge is built as soon as possible.

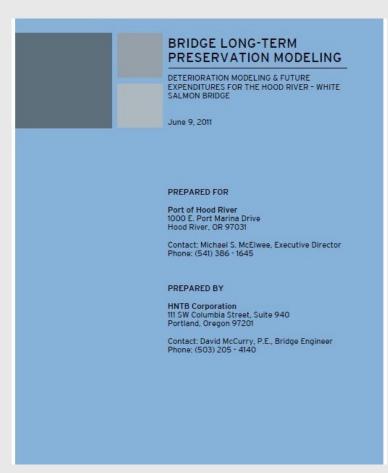


Long-Term Preservation Model - 2011

Identify the long-term capital needs of the Hood River Bridge to guide capital investment and maintenance decisions.

Port bridge engineer HNTB was asked to:

- 1. Organize the bridge by component group
- 2. Collect and organize available information
- 3. Prepare component condition summaries
- 4. Project capital maintenance needs for a 30-year period under 3 deterioration scenarios
- 5. Estimate corresponding costs



LTP Model - Assessment Methodology

Evaluation Component Hierarchy:

DIVISION: Bridge

Subdivision: Superstructure Steel Truss

Component: Span 10

Member: Lower Chord Truss Member L01L02

<u>Piece:</u> Main Longitudinal Channel on L01L02

Longevity Assessment Model - Methods

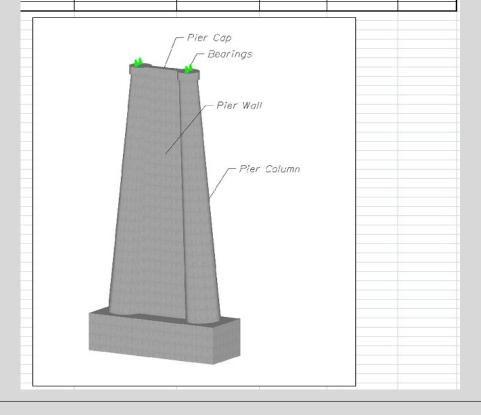
HR Bridge-Specific Subdivisions:

- Approach Structures
- Foundations
- Substructure (Piers)
- Superstructure (e.g. Trusses)
- Painting
- Deck & Railing Systems
- Lift Span E & M
- Ancillary Items
- Inspections & Studies

National Bridge Institute (NBI) Rating System

- 9: Excellent Condition
- **8:** Very Good Condition
- **7:** Good Condition
 - Minor Cracking, Leaching or Spalls
- 6: Satisfactory Condition
 - Minor Deterioration or Disintegration, Spalls, Cracking, and Leaching.
- **5:** Fair Condition
 - o Some Spalling or Scaling with Exposed Reinforcing Steel Possible but No Loss of Section in Main Bars.
- **4:** Poor Condition
 - $\circ \quad \text{Structural Cracks and Advanced Deterioration. Substantial Spalling with Loss of Section on Main Rebars.}$
- **3:** Serious Condition
 - Severe Disintegration of Concrete.
- 2: Critical Condition
 - Bridge will be <u>Closed</u> Until Condition is Repaired.
- **1:** Imminent Failure Condition
- **0:** Failed Condition

Subdivision Assessment

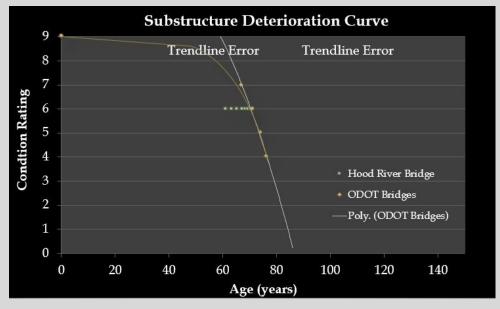


Superstructure Co	mponents												
		Data Sources											
Components	Description	Bridge Inspection Reports	Fracture Critical Inspection Reports	Underwater Inspection Reports	As-builts								
Fracture critical members		X	X		X								
Secondary members		X	X		X								
Gusset plates		X	X		X								
Stringers	W18x35												
Floor Beams			0										
Through Truss			*	N.									
Auxillary Truss		1											



Condition History - Substructure

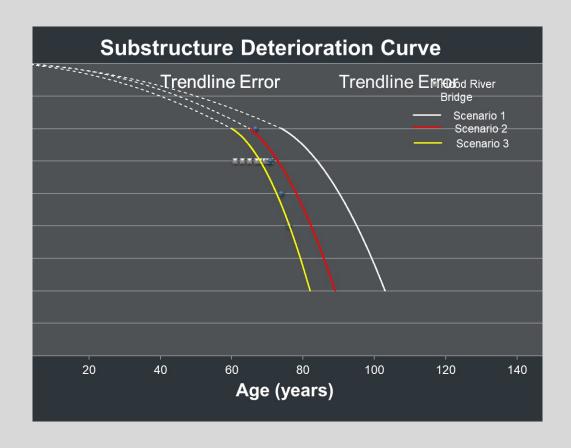
Hood River Bridge												
year	Bridge #	Description	Year Built (recent construction)	ADT	Туре	Substructure NBI Rating	Age at rating					
2009	06645 002C06462	COLUMBIA RIVER	1938	9213	315	6	71					
2008	06645 002C06462	COLUMBIA RIVER	1938	9122	315	6	70					
2007	06645 002C06462	COLUMBIA RIVER	1938	9122	315	6	69					
2006	06645 002C06462	COLUMBIA RIVER	1938	8000	309	6	68					
2005	06645 002C06462	COLUMBIA RIVER	1938	8000	309	6	67					
2003	06645 002C06462	COLUMBIA RIVER	1938	8000	309	6	65					
2001	06645 002C06462	COLUMBIA RIVER	1938	7500	309	6	63					
1999	06645 002C06462	COLUMBIA RIVER	1938	7500	309	6	61					
1924				_		9	0					

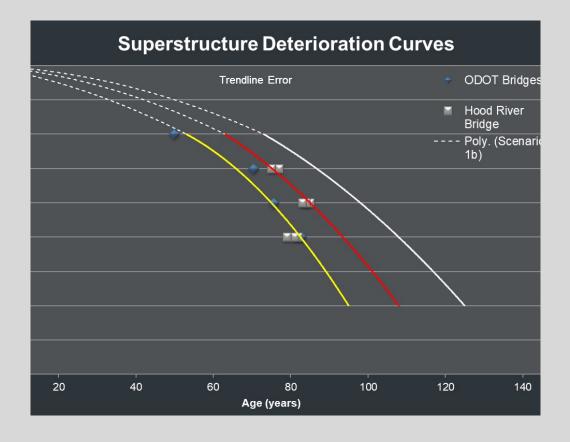


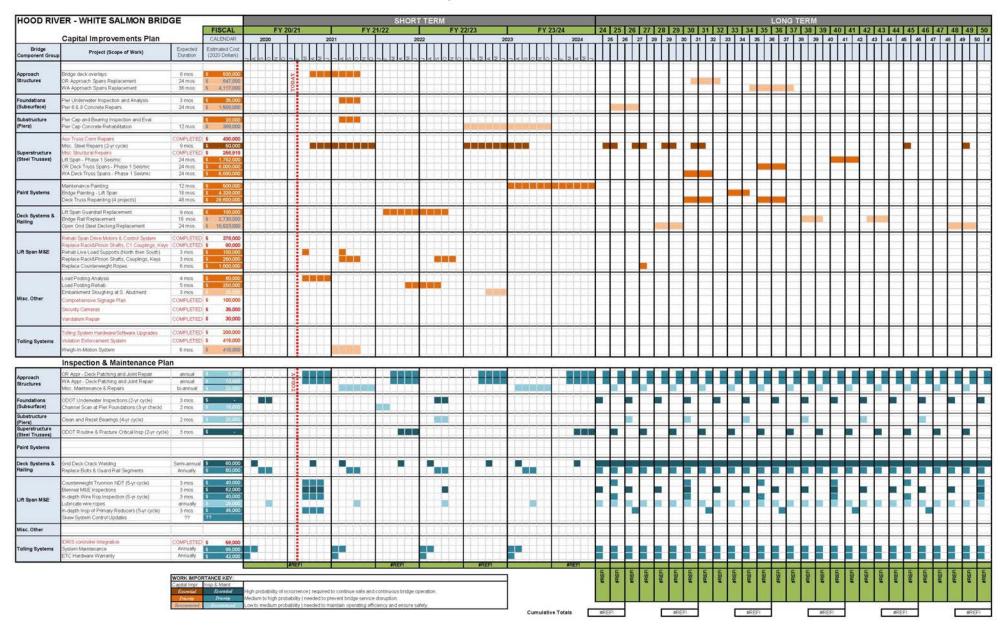
Utilized ODOT Bridge Information to Determine Deterioration for Like Steel Bridges:

- Built Between 1909 and 1941
- Crossing a Waterway

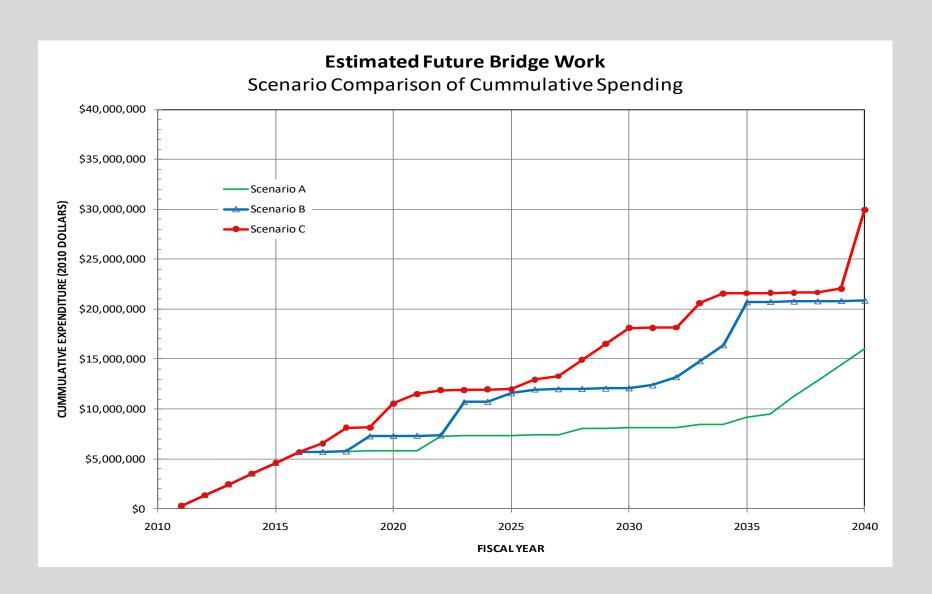
Substructure & Superstructure







Cumulative Investment



Updating the CMP

The model is updated annually based on inspections, specialized testing and ongoing observations.

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IIIOD	ection
1-	

• Fracture Critical

• Underwater -

∘ Lift span M&E

Load Rating

Guardrail

• Steel Deck

• Specialized*

Interval

2 Yr.

2 Yr.

5 Yr.

15 Yr. +/-

Monthly

Quarterly

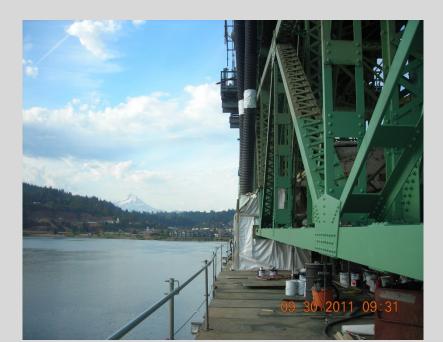
As Req'd.



^{*} e.g. Wire Ropes, Approach Ramp Concrete, Subsurface Piers/Footings, Trunnion NTD, etc.

Completed Projects

2012 Lower Chord Painting



2016 Span Guide Replacement & Repairs



2017 Trunnion Rehab.



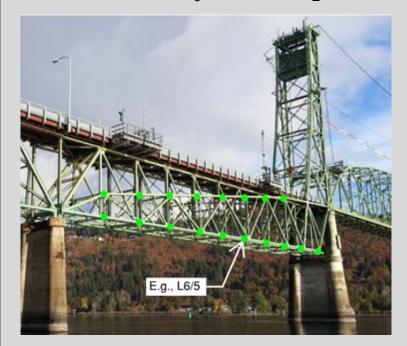
\$2.95 million

\$62,000

\$150,000

Completed Projects

2017 Auxiliary Truss Repairs



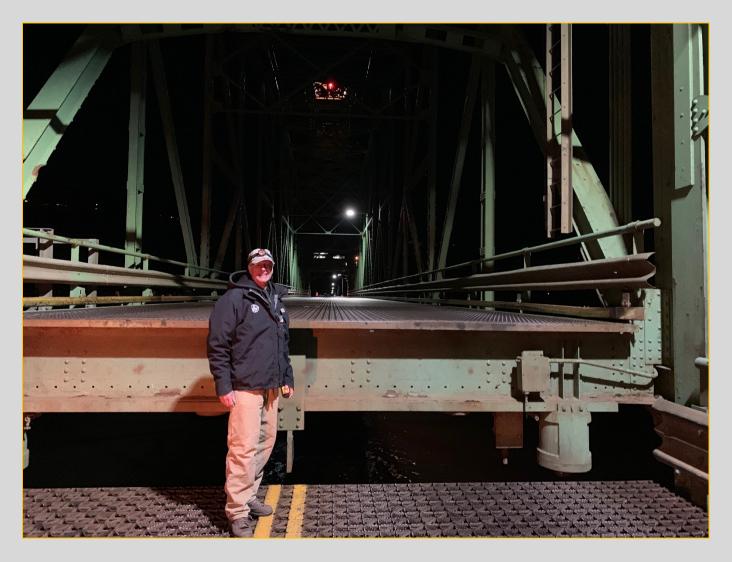
2019 Portal Truss Repair



2019 Skew System & Span Drive Motor Rehabilitation



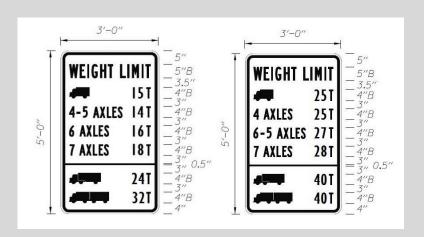
\$367,770 \$256,918 \$308,711



Our "Mann" on the bridge – kudos to Facilities Manager John Mann for so many years of great work.

2021 Load Rating Reduction

- 1. Engineering contract approved **Scoping**
- 2. Complete Engineering Phase I
- 3. Contract Amend. approval *Testing*
- 4. Complete Engineering Phase II
- 5. ODOT Acceptance **Review**
- 6. Commission Feasibility Decision Fall 2021
- 7. Contract Amend. Phase III *Plans/Specs*.
- 8. Complete Plans/specs
- 9. Bid Process/Construction Contract **Construction**
- 10. Project Completion Fall 2022





			SHORT TERM								LONG TERM 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50												
		FISCAL CALENDAR		FY 20/21 FY 21/22 FY 22/23 FY 23/24 2020 2021 2022 2023 2024						2024					32 33 34								
Bridge Component Group		Expected Estimated Co- Duration (2020 Dollars	t		(0 O Z O ¬ L S	∢≥¬¬∢	ω O Z Δ ¬ L Σ 4	∢ ≥ ¬ ¬ <	< 0 0 Z D -> U	. ≥ < ≥ >													
Approach Structures		\$ 500,00 \$ 847,00 \$ 4,117,00	0 0	E		С																	
Foundations (Subsurface)		\$ 10,00 \$ 1,500,00			E																		
Substructure (Piers)		\$ 20,00 \$ 389,00					E	С															
Superstructure (Steel Trusses)		\$ 30,00 \$ 1,752,00 \$ 6,000,00 \$ 6,000,00		E	С			C															
Paint Systems		\$ 500,00 \$ 4,329,00 \$ 29,600,00	0					E	C														
Deck Systems & Railing		\$ 100,00 \$ 15,00 \$ 2,730,00 \$ 10,523,00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		E			C															
Lift Span M&E		\$ 50,00 \$ 250,00 \$ 1,000,00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		E		C																
Misc. Other			0	E		С																	
Tolling Systems		\$ 415,00				C																	
Approach Structures		\$ 5,00 \$ 10,00 \$ 20,00																					
Foundations (Subsurface)		\$ - \$ 50,00 \$ 10,00																					
Substructure (Piers)		\$ 20,00	0																				
Superstructure (Steel Trusses)		\$ - \$ 5,00																					
Paint Systems																							
Deck Systems & Railing		\$ 60,00 \$ 60,00 \$ 40,00	0																				
Lift Span M&E			0																				
Misc. Other																							
Tolling Systems	Verrenty	\$ 85,00 \$ 42,00	0				\$ 1,5			1,085,500	693,000	000	6,431,500	11,218,500	1,666,333 7,505,333 5,498,167	7,817,000	1,183,000	337,000	369,000	337,000	387,000	337,000	5,568,500
		Essential Essential Priority Priority ecommend Recommend									w w	\$ 2	w w	s 11 s	w w	w w	w w	w w	s s	s s	w w	w w	w w

Questions/Discussion



Challenges

- Low population base & small, rural communities
- Low traffic/truck volumes
- Limited financial resources
- Complex project
- Future ownership uncertain
- Historical lack of public/agency trust
- Multiple governmental/jurisdictional entities involved
- Limited support from ODOT & WSDOT

Opportunities

- Significant seniority in PNW senate delegation
- Growing awareness & support from OR legislature
- Key support in WA State elected official
- Oregon statutory authority for tolling and P3
- Growing bi-state project collaboration & trust
- New federal financial support via BUILD
- Experienced consultant & staff team
- Emphasis on rural projects in federal programs.

Replacement Strategy

- 1. Facilitate Bi-State Collaboration
- 2. Build Community Awareness & Support
- 3. Build Legislative/Agency Awareness & Support
- 4. Demonstrate Project Credibility
- 5. Preserve Project Delivery Flexibility
- 6. Identify Experienced Team with Diverse Skillsets
- 7. Pursue All Available Funding Sources
- 8. Prepare to Transition Project to Another Entity
- 9. Work Multiple Project Strategies Simultaneously



Completed actions:

- BSWG established w/ regular meetings and ongoing staff support
- MOU executed
- Agreement for Bi-State Bridge Authority/Compact legislation
- P3 Panel Discussion w/developing understanding of delivery models
- BUILD grant Joint application between PoHR and Klickitat Co.

Current efforts / next steps:

- Maintain & increase collaboration
- Complete Bridge Authority feasibility study
- \circ Increase understanding alternative project delivery models including P3
- Establish BSBA legislation review process
- Advocacy for continue project funding in state capitols



COMPLETED ACTIONS

- SDEIS public outreach & survey
- POHR Strategic Business Plan survey
- Community forums & open houses
- Tribal outreach
- o Posterboard displays, ads, and news releases
- News articles & social media, web posts
- BSWG webpage with archive of project resources

CURRENT EFFORTS/NEXT STEPS

- Post-NEPA phase public information campaign
- Phase II public involvement strategy
- Formation of Project Advisory Committees
 - Technical
 - Strategic
 - Public Involvement



COMPLETED ACTIONS:

- Annual advocacy trips to Salem, Olympia, Washington, DC
- OneGorge "Gorgeous Nights" receptions
- Established relationships with OR and WA elected officials
- Monthly ODOT/WSDOT/FHWA leadership updates
- National Scenic Area project prioritization in FASTAct/INFRA legislation
- \$5 million for FEIS funding & tolling authority
- \circ \$5 million BUILD grant in 2020 for Phase II

CURRENT EFFORTS/NEXT STEPS

- BSBA Study authorization in OR and WA
- 1:1 meetings with Transportation and Ways & Means Committee members
- Obtain \$5 million from OR in 2021
- Obtain \$5 million from WA in 2021
- Monitor additional federal transportation grants or earmarks
- Lobby for increase in USDOT TIFIA project amounts



COMPLETED ACTIONS

- HB2017 Transportation Package funding
- BUILD grant award
- Priority project on CEDS list
- Assembled team of respected experts including lobbyists with long-standing positive relationships with elected officials and agency staff.
- Effective public survey and messaging campaign.

CURRENT EFFORTS/NEXT STEPS

- Finish FEIS and ROD
- Complete Geotechnical analysis
- Hire project engineer to complete 15-30% engineering
- Prepare preliminary cost estimates
- Obtain OR & WA legislative support for Bi-State Bridge Authority
- Identify needed statutory changes in WA

5. PRESERVE OWNERSHIP & PROJECT DELIVERY FLEXIBILITY

Pre-development activities should allow for a wide range of project delivery approaches. The optimum approach will be determined after ownership, funding, and project delivery capacity questions are answered.

COMPLETED ACTIONS

- Port legislative authority for P3 proposal solicitation
- Port P3 Solicitation Policy approved
- Project delivery options public work session (2017)
- \circ P3 work session (2018) and panel discussion (2021)
- Ongoing evaluation of alternative project procurement and construction schedules

CURRENT EFFORTS/NEXT STEPS

- Final engineering contract
- Owners Representative contract
- Construction phase modeling
- Financing alternatives assessment
- Project delivery alternatives evaluation
- Continued executive-level meetings with DOTs

6. ASSEMBLE EXPERIENCED PROJECT TEAM

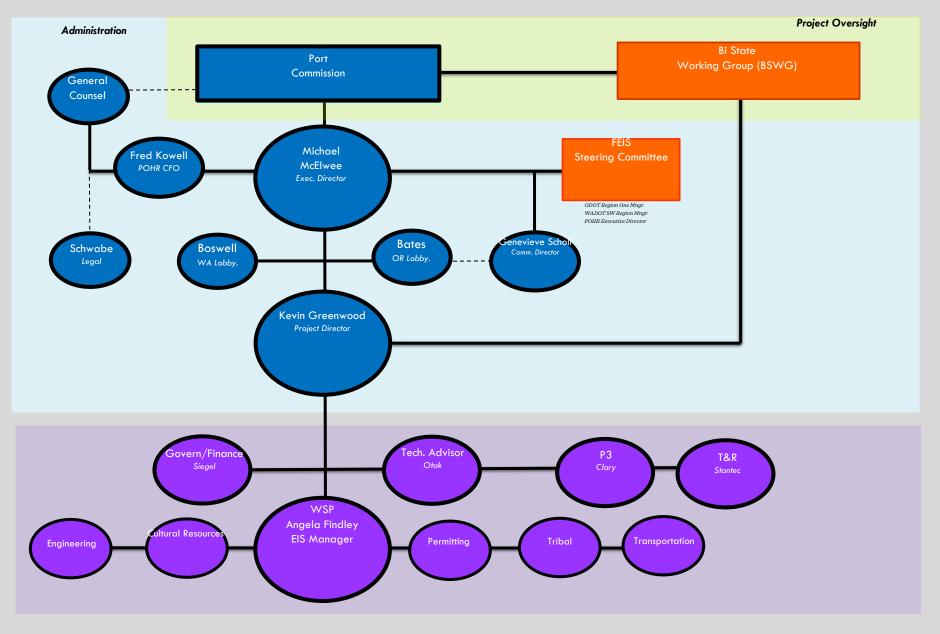
Retain a diverse team of professionals experienced in large public infrastructure projects to guide project implementation.

CURRENT TEAM

∘ Steven Siegel, Siegel Consulting – 45 years.	Strategy, Finance, Governance
∘ Chuck Green, Otak - 35 years	Project Mngt./Procurement
 Lowell Clary, Clary Consulting – 32 years 	Strategy, Finance
∘ Angela Findley, WSP – 24 years	EIS
∘ Stuart Bennion, WSP -12+ years	Engineering
Hal Heimstra, Summit Strategies – 32 years	Gov. Relations, Federal & State
o Dan Bates, Thorn Run Partners- 28 years	Gov. Relations, Oregon
o Brad Boswell, Boswell Consultants – 24 years	Gov. Relations, Washington
o Anne Pressentin, WSP - 22 years	Public Information
∘ Genevieve Scholl - 15 years	Public Information
∘ Kevin Greenwood – 20 years	Project Administration
Michael McElwee 38 years	Administration & Management

Total combined experience (including POHR staff) = 250+ years

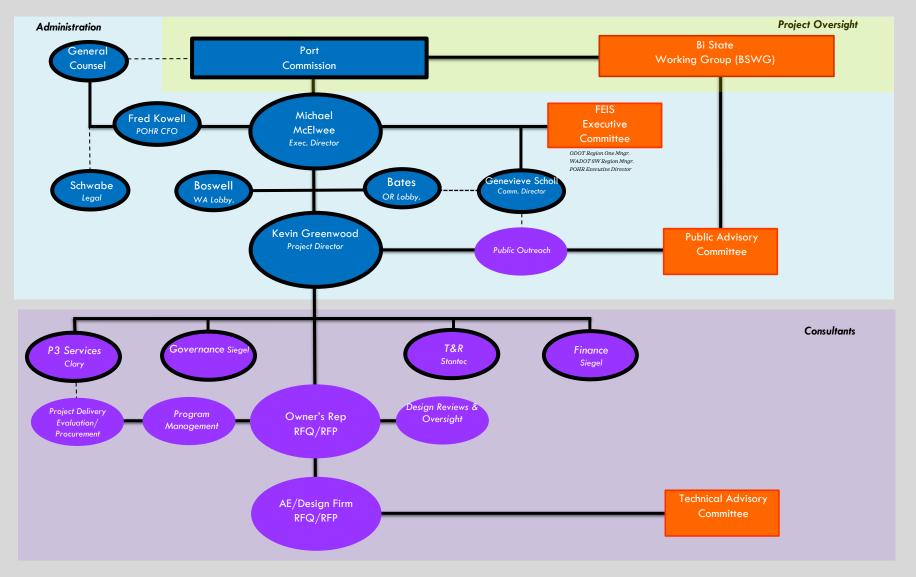
Org Chart: FEIS



CURRENT EFFORTS/NEXT STEPS

- Add members for Phase II efforts
 - Project Engineering Firm
 - o Owner's Representative

Org Chart: Post-NEPA



6. PURSUE ALL AVAILABLE FUNDING SOURCES

Recent project funding successes enable the project to complete NEPA and initiate preliminary engineering. \$10 million is needed to complete Phase II. All options must be pursued to obtain it. Funding to complete the entire project is not possible until governance, ownership, and legislative approvals are in hand.

COMPLETED ACTIONS

- \$5 million in Oregon HB2017 Transportation Package
- \$5 million federal BUILD grant award
- \$1.25 million Port of Hood River match

CURRENT EFFORTS/NEXT STEPS

- \$5 million from OR Legislature
- \$5 million from WA Legislature
- Federal grant opportunities (INFRA, BUILD)
- Federal infrastructure legislation
- Federal loan/bond programs (TIFIA, USDA)
- P3 project delivery options evaluation

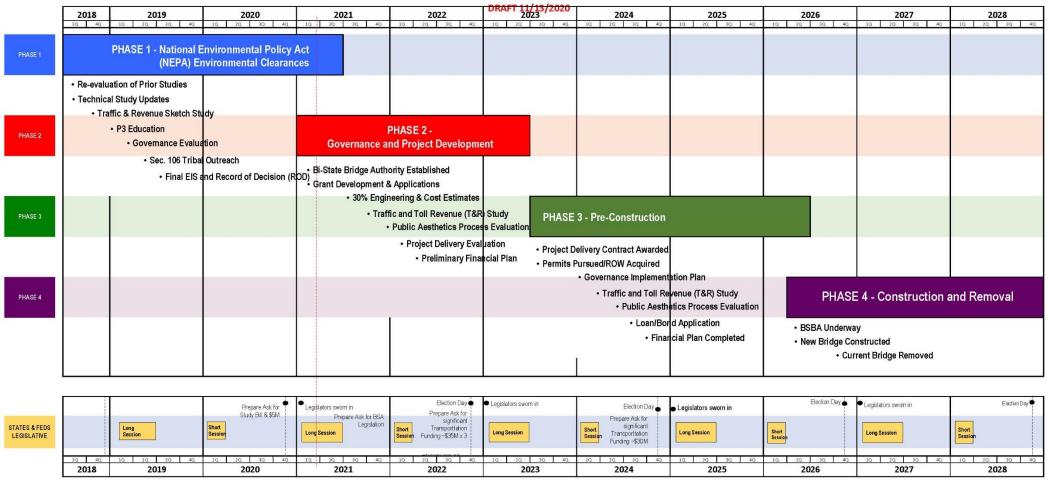
8. TRANSITION PROJECT TO ANOTHER ENTITY

The Port is leading the project now because it is the current owner of the bridge, has statutory authority to own and manage a toll facility in Oregon and has project administration experience. The Port expects to transition the project to another lead agency (Bridge Authority or DOT) at or near the end of Phase II.

9. WORK PROJECT STRATEGIES SIMULTANEOUSLY

All efforts are being pursued at the same time to secure the best opportunity for project success.

CONCEPTUAL PHASING SCHEDULE HOOD RIVER-WHITE SALMON INTERSTATE BRIDGE REPLACEMENT



Replacement Strategy - MODIFIED DRAFT (As of 3/20/21)

- 1. Facilitate Bi-State Collaboration
- 2. Raise Community Awareness & Support
- 3. Build Elected/Agency Awareness & Support
- 4. Demonstrate Project Readiness
- 5. Evaluate Multiple Project Delivery Options
- 6. Assemble a Highly Experienced Project Team
- 7. Prepare to Transition Project to Another Entity

SOME RECENT QUESTIONS

Why not ...

- 1. Set a hard closure date or an absolute replacement date now?
- 2. Stand up a large Project Management Organization now?
- 3. Take steps to determine project delivery method now?
- 4. Use a parallel or staggered strategy?
- 5. Determine who will own the bridge after replacement now?

Questions/Discussion



BI-STATE WORKING GROUP

- Monthly written reports submitted via email
- Regular monthly meetings
- Verbal reports and updates during meetings
- Consultant, agency, and staff memos and presentations
- BSWG web page hosted on portofhoodriver.com
 - Project resource archive
 - Meeting notices and minutes
 - Project updates blog
- 1 seat on BSWG + 1 alternate for each agency
- Periodic updates to member agency boards/commissions

TOOLS

Members have requested development of communication tools/collateral that would assist in communicating in clear, simple terms the nature of this complex project. Staff has developed, or is currently working on developing the following assets:

- 1. Lobbying handouts
- 2. Monthly project update posters
- 3. Legislative Strategy Chart
- 4. Elevator Speech
- 5. Project Delivery Chart showing Tasks related to Delivery Options
- 6. Project website with archive of resources and project blog
- 7. Project social media feeds



ELEVATOR SPEECH?

ALL DOCUMES ON OR DIMAGE TO LLEVISTO AND TO BE VERYORED TO THE DEPARTMENT OF CONCIDENT AND REDULCO AFFAIRS COST) AND ALCOHOL OR AFFAIR WORKING HOURS CALL STI





WARNING EVATORIS BHALL MOT BE USED IN CAME OF CONTROL EMPRISHEN

NO SMOKING

EMBRODINCY OPERATION PHASE 2

A PROPERTY POSTCO PLACES IN

A CONSTRUCT PRESCRIPTION ON THE SOCIETY

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A Modella, Modellan AF and Relian





















