







## **MEETING AGENDA**

- Welcome & Introductions
- Project Overview
- Recap of JTC Recommendations
- Opportunities for Data Improvements
- Project Prioritization Discussion
- Next Steps







### LEGISLATIVE DIRECTION FOR THE PROJECT

### Engrossed Substitute Senate Bill SB 5096 (2017), Section 206:

The appropriation in this section is subject to the following conditions and limitations: \$60,000 of the motor vehicle account—state appropriation is provided solely for the board, from amounts set aside out of statewide fuel taxes distributed to cities according to RCW 46.68.110(2), to manage and update the road-rail conflicts database produced as a result of the joint transportation committee's "Study of Road-rail Conflicts in Cities (2016)." The board shall update the database using data from the most recent versions of the Washington state freight and goods transportation system update, marine cargo forecast, and other relevant sources. The database must continue to identify prominent road-rail conflicts that will help to inform strategic state investment for freight mobility statewide. The board shall form a committee including, but not limited to, representatives from local governments, the department of transportation, the utilities and transportation commission, and relevant stakeholders to identify and recommend a statewide list of projects using a corridor-based approach. The board shall provide the list to the transportation committees of the legislature and the office of financial management by September 1, 2018.

## PROJECT OBJECTIVES

### \*Based on Legislative Direction

- Update the Road-Rail Conflicts Database
- Develop a Corridor-based Project Prioritization Process
- Identify and Recommend a Statewide List of Projects











# SCOPE AND SCHEDULE

### Phase 1: Completed by December 31, 2017

- Hold Advisory Group Meeting
- Document Database Improvement Opportunities
- Identify Project Prioritization Criteria and Corridor Evaluation Approach
- Develop Scope for Phase 2

### Phase 2: Completed by September 1, 2018

 Prepare Statewide List of Prioritized Projects









### **FMSIB ADVISORY GROUP**

#### **MEMBERS**

- 1. Paul Roberts, City of Everett, AWC
- 2. Mike Wallin, City of Longview, AWC
- 3. Sean Guard, City of Washougal, AWC
- 4. Lisa Janicki, Skagit County, WSAC
- 5. Al French, Spokane County, WSAC
- 6. Kevin Murphy, Skagit COG
- 7. Dave Danner, UTC
- 8. Chris Herman, WPPA
- 9. Ron Pate, WSDOT
- 10. Johan Hellman, BNSF
- 11. Sheri Call, Washington Trucking Association







# RECAP OF JTC STUDY RECOMMENDATIONS



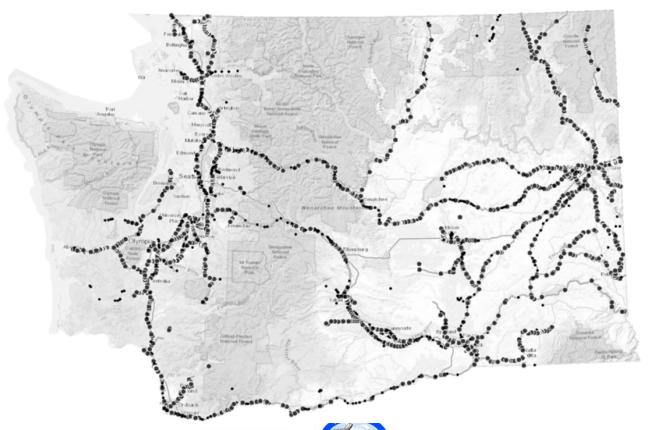




# OVERVIEW OF THE PRIORITIZATION PROCESS

#### **Approximately 4,171 crossings throughout the state**

- Active and Inactive Crossings
- Public and Private Crossings
- At-Grade and Grade Separated Crossings



\* 76% of active crossings are at-grade





## OVERVIEW OF THE PRIORITIZATION PROCESS













ALL

Active Rail Line
Publicly Accessible
At-Grade Crossing

STEP 1

Filtering

STEP 2

STEP 2
Sorting





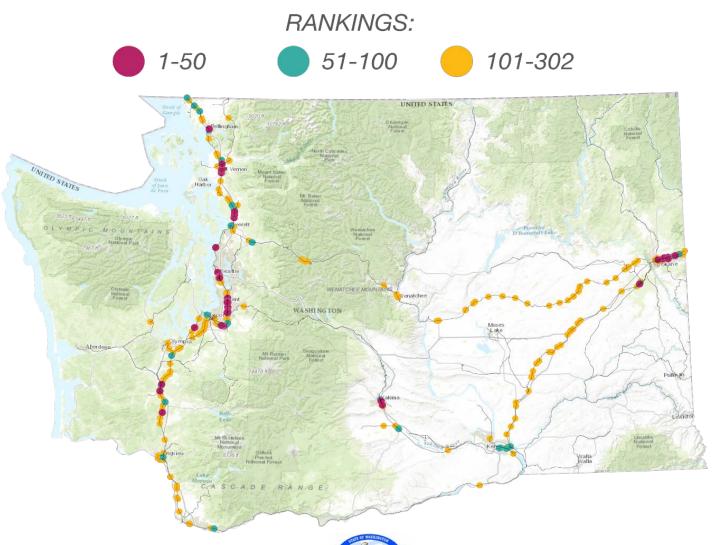


# STEP 2 EVALUATION CRITERIA MOBILITY 50%, SAFETY 25%, COMMUNITY 25%



18. Percent Minority

### CROSSINGS SUMMARIZED BY PRIORITY GROUP



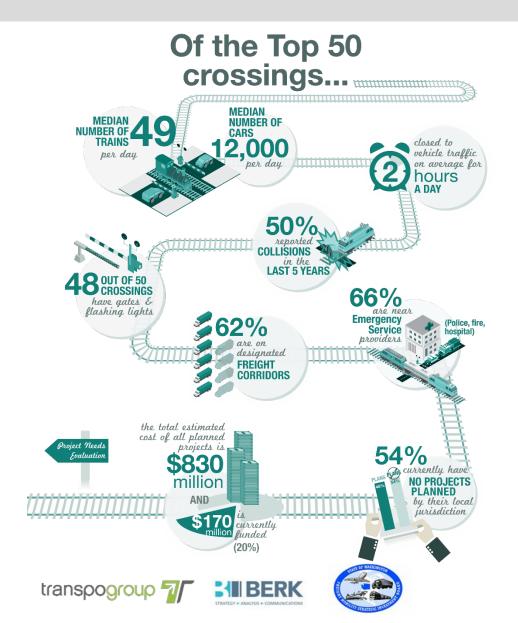
# More Details in the Report

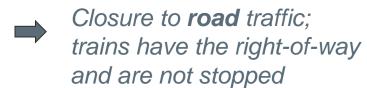
- Page 28 List of Top 50 crossings
- Appendix C –
   Entire list of the
   302 prioritized
   crossings





### KEY FACTS FROM THE PRIORITIZATION RESULTS





#### SUMMARY OF FINDINGS AND RECOMMENDATIONS

- 1. The road-rail conflicts at the Top 50 at-grade crossings are substantial and there are few funding sources to address them.
- The prioritization results point to a significant need for additional funding to address crossing improvements
  - Establish a dedicated funding source to address mobility impacts not covered under the current crossing safety programs.
  - b. Secure additional funds for the safety programs.
  - c. Further analyze Top ranked crossings to identify potential solutions individually and at the corridor level
- 3. The database and prioritization process allows analysis of crossing impacts on a statewide basis
  - a. A multi-stakeholder committee should create standards for common usage and make decisions about future data enhancement or other changes.
  - b. Identify an agency to maintain the database and tool and serve as the coordinator for the multi-stakeholder committee.







#### SUMMARY OF FINDINGS AND RECOMMENDATIONS

# 4. In some cases, projects prioritized locally did not rank high when evaluated on a statewide basis

- a. Identify specific policy objectives to guide investments in crossings on a statewide basis. This could include separate programs targeted at smaller communities or specific regions of the state.
- 5. Safety data serves as a contributor towards mobility impacts, but further analysis is needed to confirm specific safety needs
  - a. Coordinate efforts with WSDOT & WUTC programs to continue focusing on reducing collisions at crossings.
  - b. Separately address mobility and safety impacts at crossings.
- 6. The database and prioritization tool would benefit from future enhancements
  - a. The agency hosting the prioritization tool will need additional resources to maintain, update and enhance the tool.
  - b. Incorporate data from the Marine Cargo Forecast once it is complete.







#### SUMMARY OF FINDINGS AND RECOMMENDATIONS

- 7. Corridor evaluation and prioritization are most useful when defining a project to address crossing impacts
  - a. Utilize a corridor-based prioritization strategy to assist in developing solutions and prioritizing investments.
- 8. Some jurisdictions have not yet identified and prioritized crossing improvements
  - a. Ensure that local jurisdictions, state agencies, and other organizations, including RTPOs and MPOs, are aware of the tool and the data it contains and how they might use it to assist with planning or funding decisions.





# DATABASE IMPROVEMENTS







## **DATA SOURCES**

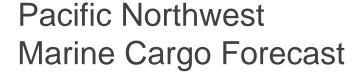






RTPOs/MPOs

Cities/Counties









- Quality: data is incorrect and inaccurate
- Consistency: data is not available for all crossings and/or from the same source
- Availability: data does not exist





### DATA CONSIDERATIONS

Future enhancements of the database could improve or resolve the data challenges and assist with project prioritization.

- New data could be created to replace data that had consistency, availability, or quality concerns, such as existing vehicle volumes and gate-down time.
- Data that was not readily or publicly available could be assembled, such as near-miss data and regional growth projections.
- Data included in the database could be updated more regularly during future iterations of the tool.



### DATA FOR PROJECT PRIORITIZATION

What other types of information are necessary for project prioritization efforts?

- Has a project been identified? If so, has there been any conceptual design or costing?
- Are there cost sharing opportunities?
- Does the project address multiple issues or locations?
- What is the cost-benefit of the project?





# PRIORITIZATION DISCUSSION







### CORRIDOR BASED PRIORITIZATION

# **Key Outcome from the JTC Study**

Corridor evaluation and prioritization are most useful when defining projects to address crossing impacts

- A variety of corridors were considered, such as crossings along a rail corridor or within RTPO boundaries, but a finer geographic focus is likely necessary
- Corridor based prioritization requires more specific context about potential needs and solutions, such as type of crossing improvement or surrounding development patterns
- A corridor-based strategy could help evaluate solutions at a single crossing that address multiple crossings, or could evaluate a suite of solutions at multiple crossings that help traffic move through a larger corridor
- Corridor evaluation could be useful in identifying or evaluating specific project proposals, and addressing regional or urban/rural needs, otherwise high volume crossings will outrank lower volume rural crossings

### Recommendation:

Utilize a corridor-based prioritization strategy to assist in developing projects and prioritizing investments







#### PROJECT PRIORITIZATION CONSIDERATIONS

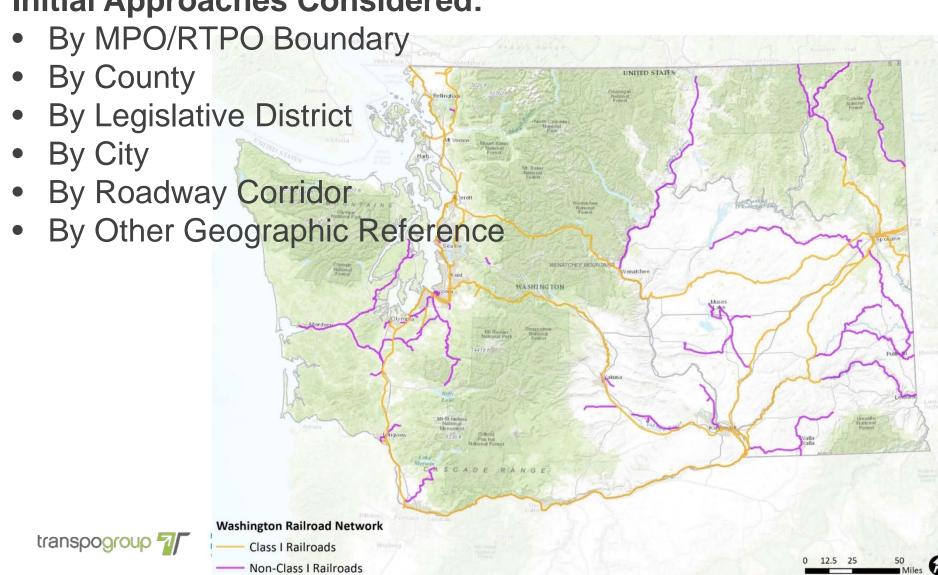
- Crossing rank does not necessarily equate to project need or feasibility, so prioritization or funding allocation by corridor would need more information about projects
- Corridors should be scaled to match the type of projects envisioned, or how a group of crossings are inter-related
- A corridor-based approach might seek to address non-urban crossings separately from those within city limits





# HOW SHOULD CORRIDORS BE DEFINED?

# **Initial Approaches Considered:**

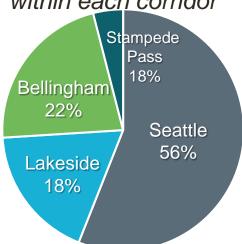


### SUMMARY OF CROSSINGS BY RAIL CORRIDOR

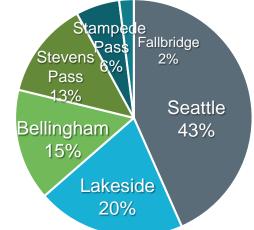
- Based on Marine Cargo Forecast corridors
- Top 50 crossings are only on 4 of the 6 corridors
- > Top 302 crossings are primarily along 4 corridors



Percent of the Top 50 crossings within each corridor



Percent of the Top 302 crossings within each corridor









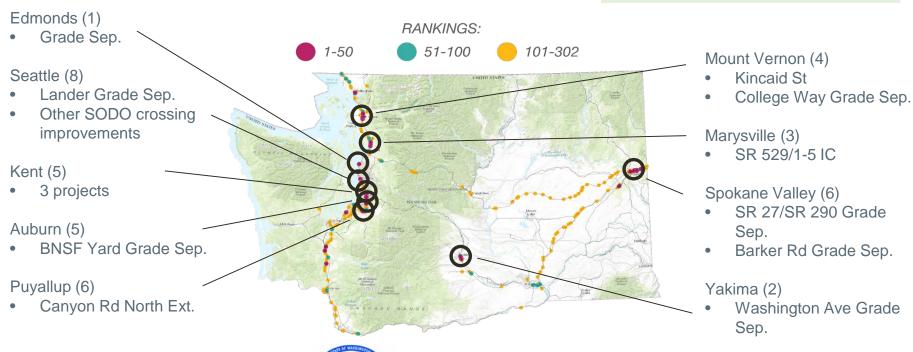
# GROUPING OF PROJECTS BY SMALLER CORRIDORS (EXAMPLE)

- Projects have already been identified to address impacts at many of the top crossings, but don't address all crossings within corridor group
- Easier to identify potential impacts and solutions at smaller corridor level



Corridor Group (Number of Crossings)

Projects Identified by RTPO









### **NEXT STEPS**

- 1. Document Database Improvement Opportunities
- 2. Identify Data Request of MPOs/RTPOs
- 3. Develop Scope for Phase 2





# MORE INFO

http://leg.wa.gov/JTC/Pages/Road-Rail-Study.aspx

Brian Ziegler

Freight Mobility Strategic Investment Board 360.586.9695

ZiegleB@fmsib.wa.gov

Jon Pascal, PE

Consultant Project Manager

425.896.5230

jon.pascal@transpogroup.com