Regional Emergency Transportation Routes Update

East Multnomah County Transportation Committee
Review of Phase 1 Draft Report

March 15, 2021





Project Team: RDPO, Metro

Thuy Tu Consulting, LLC, Salus Resilience, Cascade GIS & Consulting, FLO Analytics







Project Purpose



To update designated Regional Emergency Transportation Routes (RETRs) for the five-county region.

- Update 1996 and 2005/2006 ETRs
- Improve understanding of resilience of ETRs
- Raise visibility of ETRs
- Facilitate regional dialogue regarding resilience and recovery
- Set the stage for Phase 2 and future planning and investment



Regional ETR Update Work Group













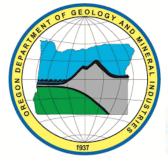




















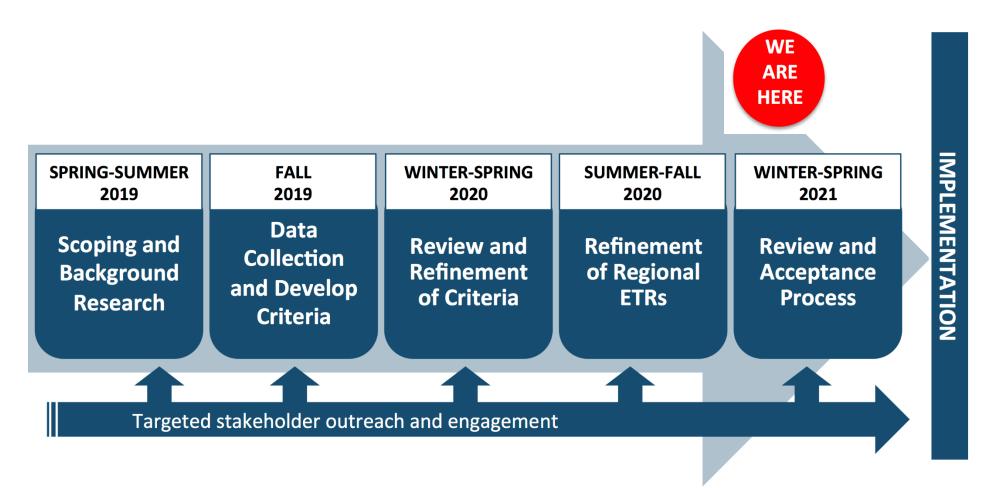








Project Timeline





Stakeholder engagement | 2019 and 2020

- 7 Regional ETR work group meetings (2019-2020)
- 2 TPAC/MTAC workshops (2019-2020)
- 1 community leaders' forum (2019)
- 10 county-level coordinating committee briefings (staff and policy) (2020)
- 3 county-level coordinating committee meetings (policy) (2020)
- 8 jurisdictional specific meetings to review draft maps (2020)
- 3 REMTEC briefings (2019-2020)
- 2 Public Works work group briefings (2020)
- 3 RDPO Steering Committee briefings (2019-2020)
- 1 Joint Policy Advisory Committee on Transportation briefing (2019)
- 1 Metro Council briefing (2020)
- 1 Southwest Washington Regional Transportation Council briefing (2020)



More than
40
touch points
in 2019 and
2020





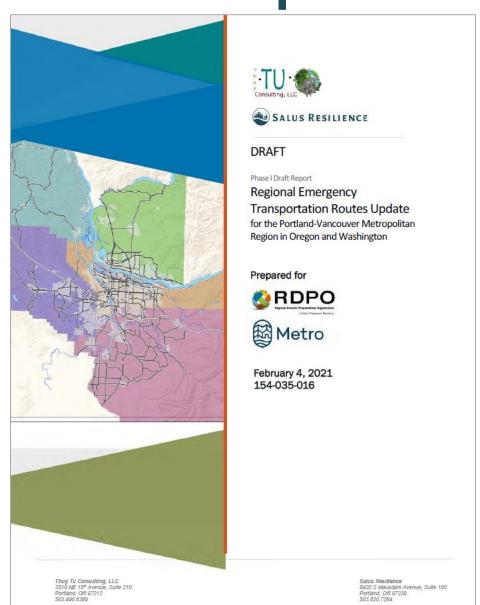
Overview of Draft Final Report

Table of Contents

- Introduction
- 2 Stakeholder Engagement
- Background and History
- Overview of Concepts and Methods
- Data Collection and Analyses
- Analysis Results & Recommendations
- 7 Updated Route Summary
- Recommendations for Future Work

Appendices

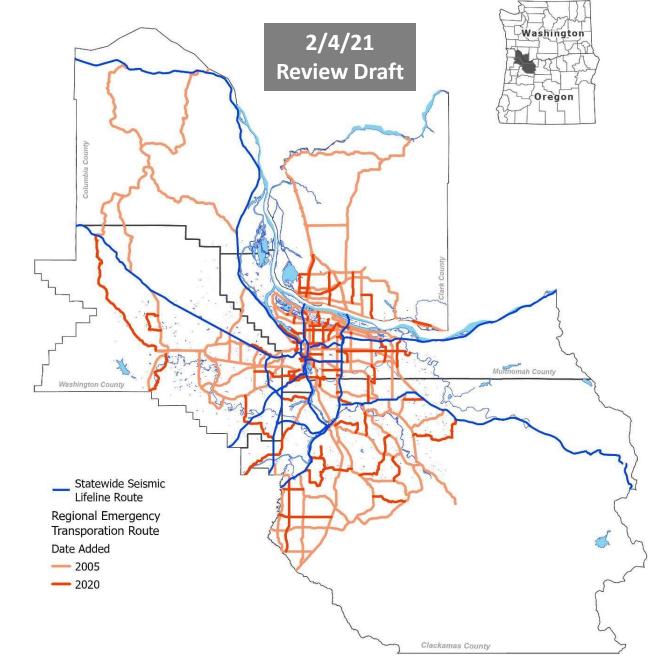




DRAFT Updated RETRs

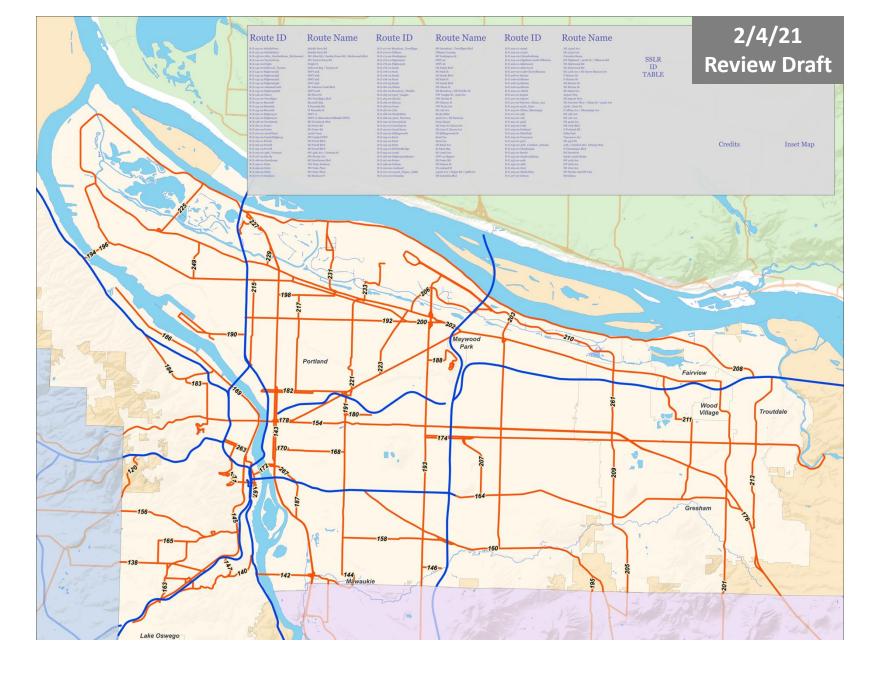
~40 routes added by jurisdictional partners to:

- connect to more state/regional critical assets
- reflect updates
 recommended through
 local planning and
 ODOT/County seismic
 lifeline bridge detour
 reviews
- add new and improved facilities



Draft Multnomah County Map

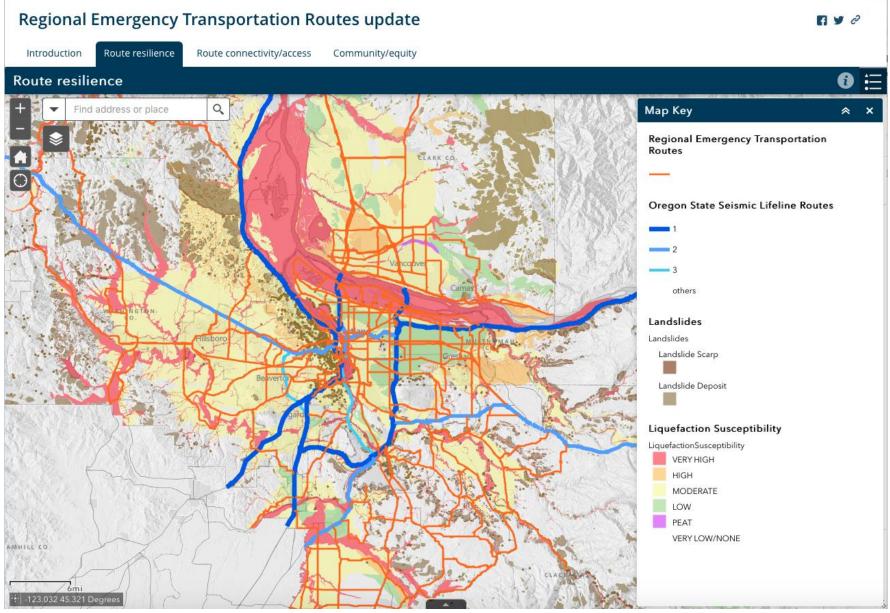
- ___ Statewide Seismic Lifeline Route
- Regional Emergency
 Transportation Route





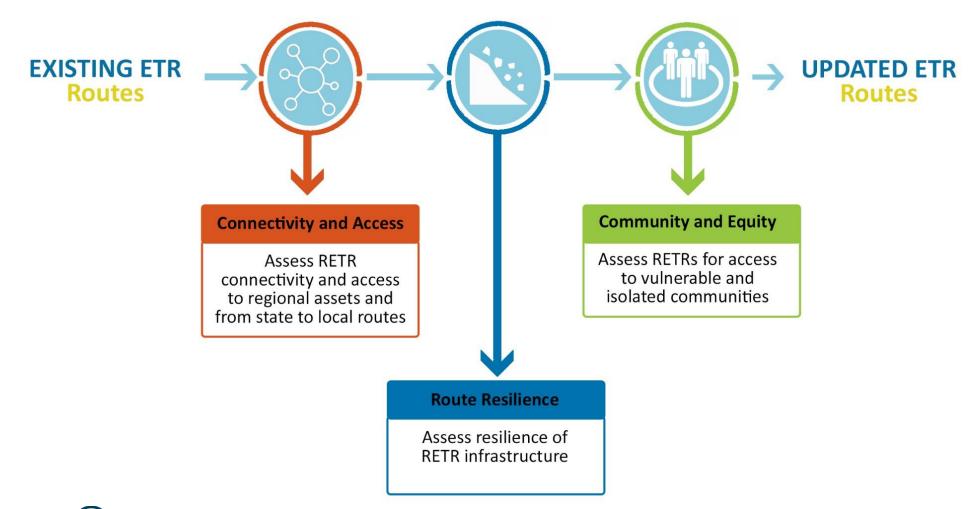
On-line viewer

https://arcg.is/0rWCX5



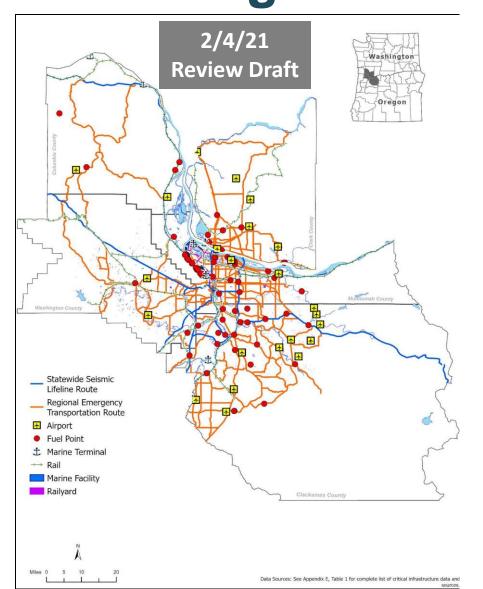


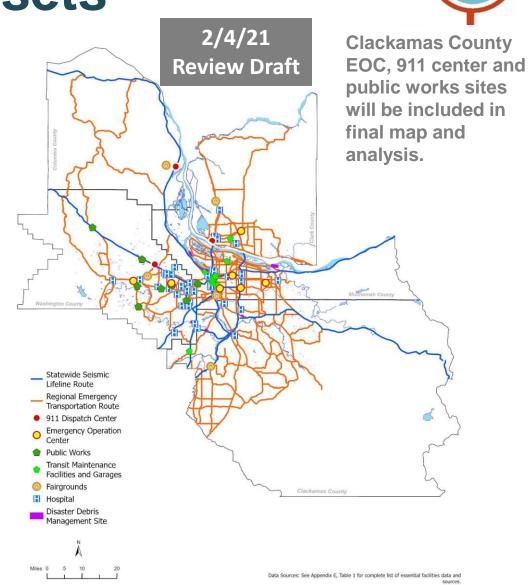
Factors Applied in RETR Update





RETR Connectivity and Access Findings State/Regional critical assets

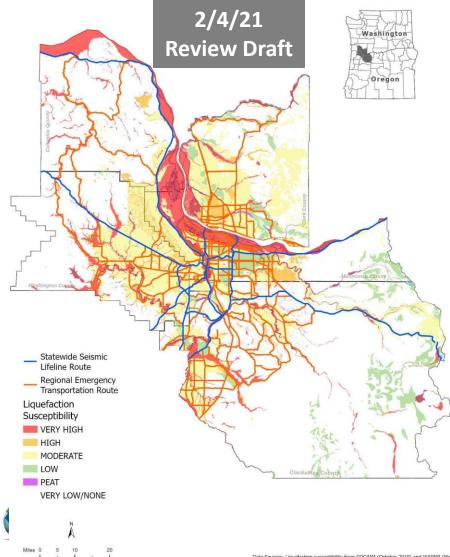


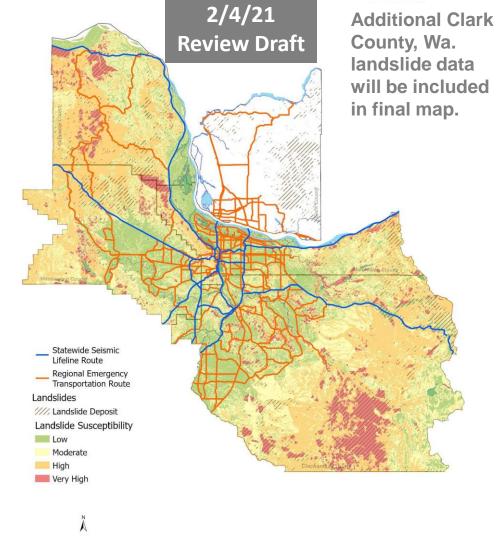


RETR Resilience Findings

Liquefaction and Landslide Hazards



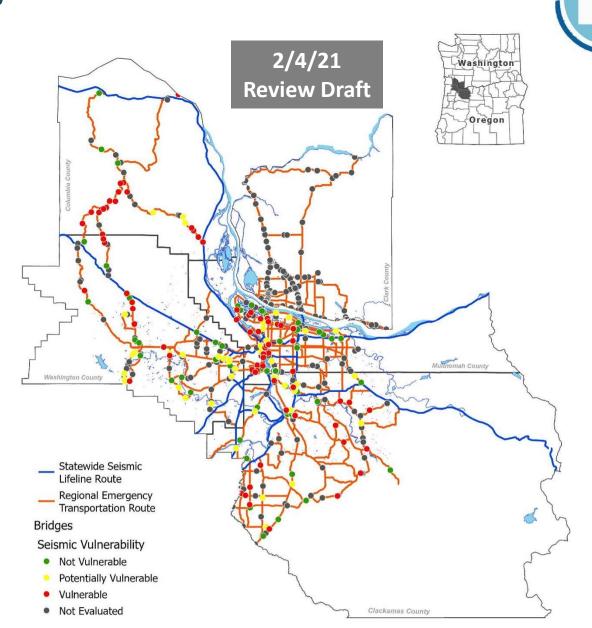




RETR Resilience Findings Vulnerable Bridges

- Vulnerable bridges greatly increase risk in region.
- Crossings of the Columbia and Willamette rivers are very vulnerable.
- Seismic and landslide impacts to roads and bridges will likely hinder connectivity and access during an emergency.



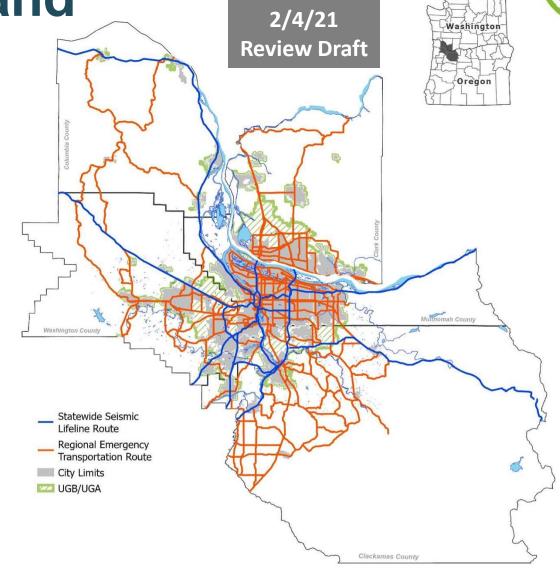


RETR Community and Equity Findings

Population Centers and

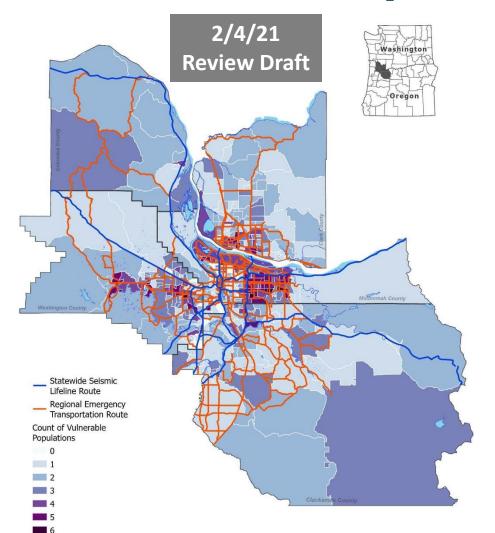
Growth Areas

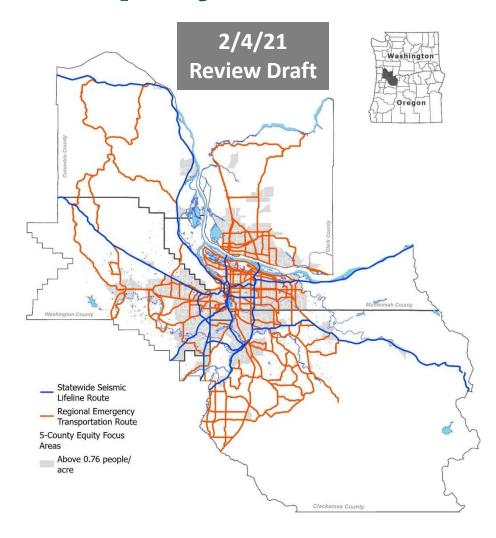
- provides adequate connectivity and access to communities
- limited alternate routes and transportation services in some rural areas with fewer travel options
- more in-depth equity analysis and community-specific engagement needed in future work





RETR Community and Equity Findings Vulnerable Populations and Equity Focus Areas





Recommendations for Future Work

Recommendation	Level	Lead/Key Partner(s)
1. Integrate regional ETRs into other planning and investment	Regional	Various
decision-making processes		
2. Prioritize or tier the regional ETRs	Regional	RDPO & Metro
		(RETR Phase 2)
3. Develop RETR management plans to include: RETR operations in an	Local with regional	Local jurisdictions with facilitation by RDPO &
emergency, evaluation of specific hazard events, maintenance and	facilitation	Metro
coordination between jurisdictions and transition to recovery		(RETR Phase 2)
4. Better address vulnerable populations	Regional	RDPO & Metro
		(RETR Phase 2 and Social Vulnerability Tool)
5. Integrate RETR and LETRs into evacuation planning	Local and regional	Various
6. Formalize the RETRs and agree to a plan for consistent updates	Regional	RDPO & Metro
		(Phase 2)
7. Engineering evaluation of top priority/tier routes for seismic	Local and regional	TBD
upgrades		
8. Evaluate river routes	Regional/State	Ports, Coast Guard & State Resilience Office
Develop equity-centered public messaging for transportation in emergencies	Regional	RDPO Public Messaging Task Force
10. Evaluate bike and pedestrian options for emergency transportation	Local	Various



RETR Update Phase 2 – Tiering and Operationalization of Routes

- Tiering Methodology and Prioritization Framework
 - Develop and apply a GIS-based tiering methodology for comparing the different RETR segments
 - Designate which routes should be evaluated, cleared and opened first, next and last, in a catastrophic scenario
- Operationalization Guidelines and Agreement(s)
 - Establish facility owner and operator roles and responsibilities and related coordination activities



Next Steps

Feb. and March Broad stakeholder review

March Refine draft maps and report to address

feedback

April/May SW RTC, JPACT and the Metro

Council consider action

May RDPO Policy Committee considers

action

Dissemination Webinar



Thank you!

Laura Hanson, RDPO

Laura.hanson@portlandoregon.gov

Kim Ellis, Metro

kim.ellis@oregonmetro.gov



rdpo.net/emergency-transportation-routes

