





# Segment Coalition Meeting South Segment

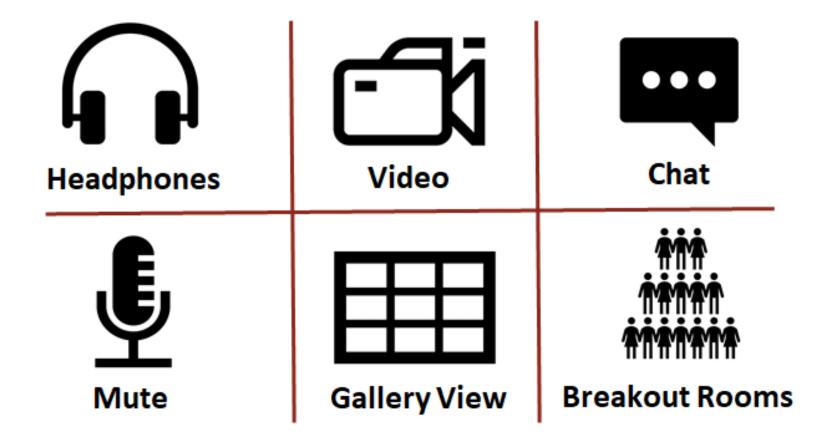
Denver, Colorado – April 30, 2020



## Welcome



#### **Zoom Instructions**



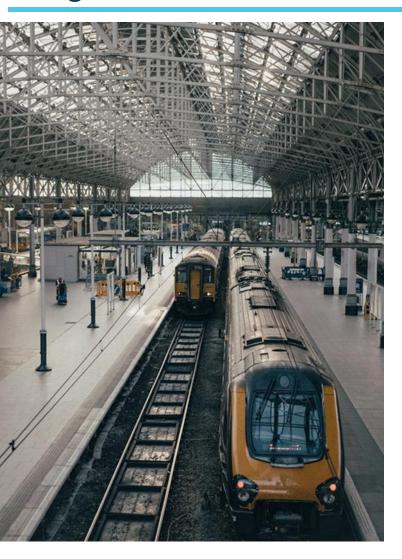


#### Interactive Poll

## Does pineapple belong on pizza?



### Agenda



- Welcome and introductions
- Agenda review and meeting purpose
- Project status
- Level 1 evaluation results
- Level 2 alternatives and evaluation
- Public involvement
- Next steps, thank you, and close



## Meeting Purpose



The purpose of this meeting is to:

- Provide project update
- Response to COVID-19
- Discuss results of Level 1 corridors fatal flaw evaluation
- Introduce Level 2 alternatives and refinement / evaluation process
- Solicit coalition members' ideas on constraints, refinements, and criteria for Level 2 alternatives comparisons



# **Project Status**



## COVID – Working through Uncertainty

- Remain committed to safety, quality and communication
- Maintain continuity of project work
- Stakeholder engagement while
  - Staying safe
  - Maintaining social distance
  - Keeping the project on task
- FRPR is part of Colorado's future
  - Can't stop planning, but now looking through a broader lens



#### **Project Status**

- Pleasantly productive during COVID quarantine
- Present Level 1 analysis and conclusions
- Introduce Level 2 alternatives and get input





### Legislative Update



- Legislature reconvenes May 18
- Significant budget impacts from COVID 19
- Strategies for 2021 evolving
- Federal Stimulus packages
- Possible FAST ACT Reauthorization



## Level 1 Evaluation Results



#### **Evaluation Process**

STEP 1

#### PROJECT INITIATION AND SCOPING

What do we want Front Range Passenger Rail to be? STEP 2

#### LEVEL 1 EVALUATION

What are the possibilities for corridors and operations?

STEP 3

#### LEVEL 2 EVALUATION

How do alternatives compare?

STEP 4

## ADVANCE TO NEPA

Federally required process to advance major infrastructure projects

STAKEHOLDER ENGAGEMENT AND GOVERNANCE



#### **Vision Statement**

Developing passenger rail that serves Front Range communities from Fort Collins to Pueblo is a critical component of Colorado's future. FRPR will provide a safe, efficient, and reliable transportation option for travel between major population centers and destinations along the Front Range and create a backbone for connecting and expanding rail and transit options in the state and region.





### Range of Alternatives Considered

- No Action (best bus)
- Possible Rail Alternatives with focus on Existing Transportation Corridors
  - BNSF Rail Corridor
  - Union Pacific/Great Western Rail Corridor
  - BNSF/RTD North Metro (N Line) Corridor
  - I-25 Highway Corridor
  - o I-25 / E470 Highway Corridor







#### **Fatal Flaw Evaluation**



#### Operational Characteristics

- Serve 2045 population and employment centers
- Provide connections with other modes (existing or planned transit)



#### Community and Environmental Impacts

- Severe community disruption
- Severe impacts to natural resources



#### Financial and Economic Factors

Potential to be cost-effective



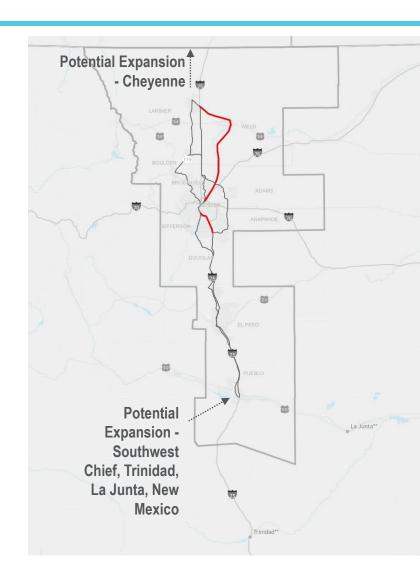
#### Feasibility and Implementation

- Constructible
- Compatible with existing transportation uses
- o Some level of support



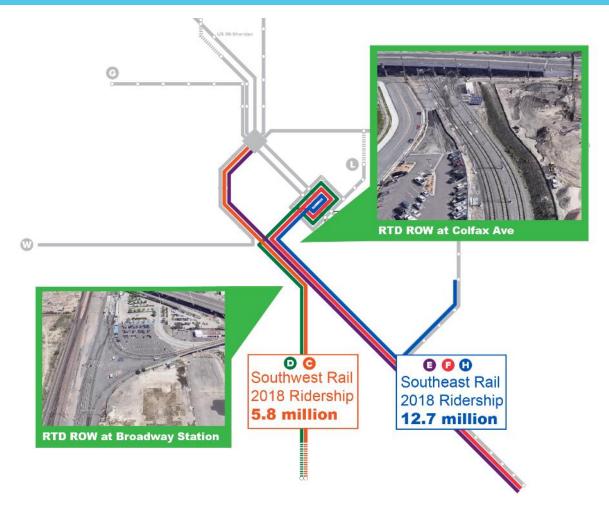
#### Level 1 Results

- Two corridor segments eliminated for one or more fatal flaw
- The remaining carried forward for refinement
  - Constraints identified for each corridor and each segment
  - Constraints include limited rights-of-way, areas of capacity limitations, and geometric issues (curves)





#### Eliminated: I-25 RTD LRT Retrofit



No available right-of-way | Severe community disruption | Interrupt RTD service for 6 years



#### Eliminated: I-25 RTD LRT Retrofit

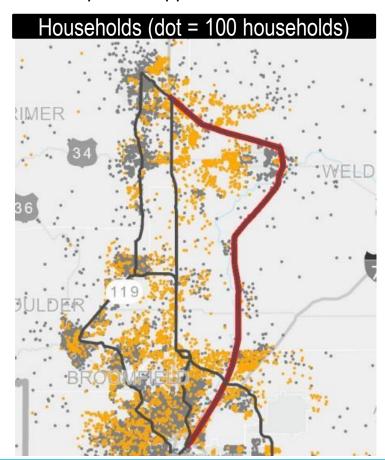
- 12 locations of vertical grades greater than 3 percent
  - Requires reconstruction
- 4 locations of horizontal clearance lower than 16 feet
  - Could potentially handle with design variance
- Platform modifications to accommodate wider vehicles (every station)
  - Modification to high-block structures for boarding for persons with disabilities
  - Gap/height difference at edge of platform needs hazard analysis

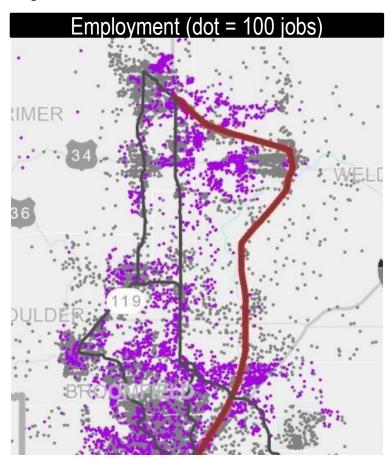




#### Eliminated: Union Pacific/Great Western

- Does not serve 2045 population or employment centers
- Does not provide backbone for connections with other modes
- Limited public support or benefit as a backbone alignment





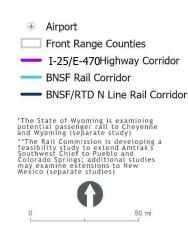


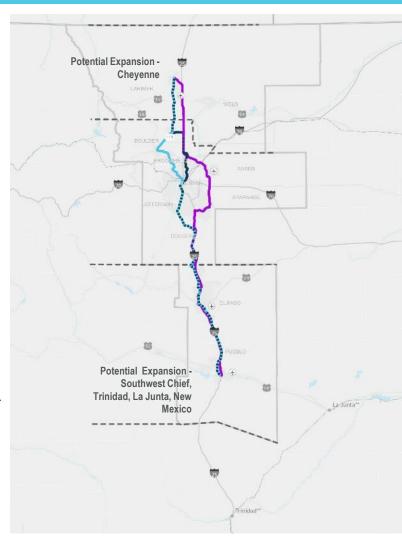
# Level 2 Alternatives & Evaluation



#### Alternatives Carried Forward for Level 2 Evaluation

- Nine potential corridors to mix and match
  - Two in the South Segment
  - Five in the Central Segment
  - Two in the North Segment
- Optimization and Refinement
  - o Geometric refinements such as smoothing out curves
  - Understanding of highest activity station areas and how to connect them







#### Criteria for Level 2 Evaluation

Operational Considerations	Community / Environmental Impacts	Economic Considerations	Feasibility / Implementation
<ul> <li>Travel Time</li> <li>Ridership</li> <li>Operating Speed</li> <li>Reduction in Vehicle Miles Traveled (VMT)</li> <li>Ability to Interconnect with Other Modes (Existing or Planned Transit)</li> <li>2045 Population and Employment Centers Served</li> </ul>	O,	<ul> <li>Capital Cost</li> <li>Operating Cost</li> <li>Revenue Potential</li> <li>Cost Effectiveness</li> </ul>	<ul> <li>Interaction with Freight Railroad Operations /</li> <li>Customer Access</li> <li>Ease of Implementation</li> <li>Constructability</li> <li>System Flexibility</li> <li>Public Support</li> </ul>



#### Interactive Poll

# Rate the **top three** most important operating characteristics for FRPR.

- Fare recovery (O&M costs)
- Ridership/maximize use and mode shift
- Reasonable total travel times
- Availability and cost of parking
- Station locations close to my origin and destination

- One seat ride/in vehicle travel times
- On board amenities, such as dining or Wi-Fi
- Other (e.g., schedule reliability, ease of purchasing tickets / assigned seat)

# Discussion: Why are these the most important to you? (Raise hand in Zoom)





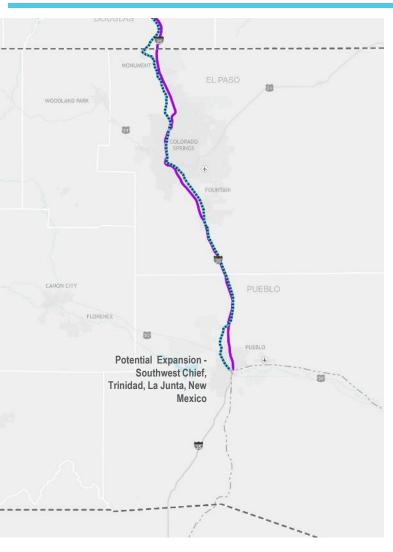
# Level 2 Alternatives: South Segment

- Consolidated mainline freight corridor from Pueblo to Monument (and Castle Rock)
- I-25 from Pueblo to Monument (and Castle Rock)

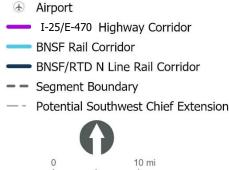




## South Segment Considerations for Refinements



- Connections with Southwest Chief service
- Access to downtown Colorado Springs
- Topography and sensitive natural areas, especially through Air Force Academy north to Castle Rock
- Access to Denver area destinations
  - o DEN Airport
  - Denver Tech Center
  - Downtown / Denver Union Station
- Future connection to Trinidad and New Mexico





## Solo Work Questions (South Segment)

#### Instructions:

- Check out the webinar chat box for a link to a questionnaire
- Copy the questionnaire link and paste in to a new browser window
- Answer the two questions over the next 15 minutes
- Recap of the results will be provided in the meeting summaries

What are your concerns or recommendations for coordinating with Southwest Chief extension or SW Chief Thru Car Service to Colorado Springs?

What are your concerns or recommendations for Colorado Springs area alignment and station(s)?



## Ridership – Preliminary Baseline Results

- Preliminary modeling has been completed for six baseline scenarios, five passenger rail scenarios and a best bus scenario
  - o Results are favorable and have room for improvement
  - Ridership is expected to increase under all Rail Scenarios
  - Ridership may increase under Best Bus scenario also but not as much room for improvement
- Refinements will improve ridership
  - Engineering improvements to changes in horizontal and vertical geometry to increase speeds and travel times
  - Refinements to operating characteristics, such as improved connections or station locations
  - Mix and match best performing segments with hybrid corridors/alternatives
- Rail is projected to have higher ridership than bus
- Rail ridership projections (even these conservative early forecasts) compare favorably to existing passenger rail services around the United States.





## **Public Involvement**



#### **Public Involvement**



- Why Public Involvement
- What's been done?
- Then: Pre-COVID Plan
- Now: COVID Impacts
- What are your Public Involvement interests?



#### Interactive Poll

Given COVID-19, how should we best proceed in your community with Public Involvement?



# Closing



### **Next Steps**



#### Summarize:

- Key meeting points
- Action items
- Next meeting

# Thank You!



