2050 Metro Vision Regional Transportation Plan – Proposed Scenarios to Test

Board of Directors
December 18, 2019
2050 MVRTP major milestones & timeline

**SUMMER/FALL 2019**
Phase 1: visioning and education

**WINTER 2019/SPRING 2020**
Phase 2: investment priorities and scenario options

**FALL/WINTER 2020**
Phase 3: plan development

**SPRING 2021**
Phase 4: draft plan review
Define vision & desired outcomes
- Phase I engagement
  - What’s important to us about our transportation system?

Prepare tools
- 2050 land use forecasts
- land use model
- Updated travel model
  - Tools to model and test regional scenarios

Define & test scenarios
- transportation
- urban form
  - Explore regional relationships between urban form, transportation investments, and mobility outcomes

Prepare 2050 MVRTP
- Major projects
- Investment strategy
  - How do scenario analysis outcomes inform project & investment decisions in the 2050 MVRTP?
Regional scenario planning context

- Explores “what if” alternative futures

- Tests alternative transportation and urban form approaches through the lens of Metro Vision

- Relative comparisons between scenarios and baseline

- Provide guidance and direction for transportation investments in the 2050 MVRTP
### Proposed scenarios to test

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<th>Proposed Scenario</th>
<th>Key Scenario Concept</th>
<th>Land Use Components</th>
<th>Transportation Components</th>
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<td>Baseline</td>
<td>comparison with scenarios below</td>
<td>base development constraints (regulatory &amp; natural)</td>
<td>2040 Fiscally Constrained RTP</td>
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#### Transit Emphasis
- Transit network & service emphasis
- Upzone housing/jobs at transit stations, urban centers & along frequent-service transit lines
- Base development constraints (regulatory & natural)
- RTD federal & state $$ BRT corridors
- Finish FasTracks and test extensions
  - Free fares
  - Increased transit frequency
  - Expand/improve access to transit

#### Regional Highway & Operations Emphasis
- Improve operations & traffic flow on highways/freeways
- Base development constraints (regulatory & natural)
- Build out freeway managed lanes system with direct connections (HPTE Express Lanes Master Plan)
- Roadway operations/incident management strategies

#### Freeway/Interstate Congestion Emphasis
- Build out of freeway/interstate system to address off-peak congestion
- Base development constraints (regulatory & natural)
- Add general purpose lanes to region's freeways & interstates with severe off-peak congestion
- Increase operating capacities on highways/freeways
- Decrease operating capacities on highways/freeways

#### Technology/Connected Vehicles Emphasis
- Version A: Autonomous vehicles (AVs) benefit regional mobility
- Base development constraints (regulatory & natural)
- Increase walking/bicycling attractiveness (complete streets approach)
- Telecommuting & other TDM strategies
- Increase access to base transit network
- Reduce speeds on major arterials (safety)

#### Travel Choices Emphasis
- Increase travel and mobility choices along region's major arterials
- Upzone for redevelopment/mixed uses along major arterials & urban centers

#### Regional Jobs/Housing Balance Emphasis
- Better balance travel patterns at the regional level by locating housing and jobs closer together
- Upzone for housing in/near employment centers
- Upzone housing/jobs along major transportation facilities & urban centers
Transit Emphasis scenario

- **Key concept:** transit network and service emphasis

- **Key land use component:**
  - Upzone housing/jobs at transit stations, urban centers & along frequent transit service lines

- **Key transportation components:**
  - RTD BRT study federal & state funding candidate corridors
  - Finish FasTracks & key extensions
  - Free fares (conceptual)
  - Increased transit frequency
  - Expand/improve transit access
Regional Highway & Operations Emphasis scenario

- **Key concept:** improve operations & traffic flow on region’s highways/freeways

- **Key land use component:**
  - Base development constraints (regulatory & natural)

- **Key transportation components:**
  - Build out freeway managed lanes system with direct connections (HPTE Express Lanes Master Plan)
  - Roadway operations & incident management strategies
Freeway/Interstate Congestion Emphasis scenario

- **Key concept:** build out freeway/interstate system to address off-peak congestion

- **Key land use component:**
  - Base development constraints (regulatory & natural)

- **Key transportation component:**
  - Add general purpose lanes to region’s freeways & interstates with severe off-peak congestion
Technology/Connected Vehicles Emphasis scenarios

• **Key concepts:** *mobility technology & autonomous vehicles benefit (version A) or impact (version B) regional mobility*

• **Key land use component:**
  - Base development constraints (regulatory & natural)

• **Key transportation components:**
  - Increase or decrease operating capacities on highways/freeways
Travel Choices Emphasis scenario

• **Key concept:** increase travel & mobility choices along region’s major arterials

• Key land use component:
  o Upzone for redevelopment/mixed uses along major arterials & urban centers

• Key transportation components:
  o Increase walking/bicycling attractiveness (complete streets approach)
  o Telecommuting & other TDM strategies
  o Increase access to base transit network
  o Reduce speed limits on major arterials (safety emphasis)
Regional Jobs/Housing Balance Emphasis scenario

- **Key concept:** better balance regional travel patterns by locating housing and jobs closer together

- **Key land use/transportation components:**
  - Upzone for housing in/near employment centers
  - Upzone housing/jobs along major transportation facilities & urban centers
Next steps

• October-December: input from: public, county forums, TAC, RTC, Board

• January-March: conduct scenario analysis

• April: initial scenario results at RTC
THANK YOU!