Implementing the Vision
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Rail-Volution

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OUTLINE

- Implementing the Vision, I - Scenarios
  - Workshop results to scenarios
  - Regional transportation plan (RTP)

- Implementing the Vision, II - Principles
  - Principles with measures
  - Transportation improvement program (TIP)
IMPLEMENTING THE VISION

I - Scenarios

- Arrange the residents’ ideas into scenarios
- Develop a preferred scenario and sell it to local governments and elected officials
- Adjust the land use input to travel demand with locally accepted concepts
- Develop a realistic financial plan
- Develop an RTP with land use adjustments
Workshops: common themes

- Emphasis on growth centers
- Desire for land recycling
- Provide a variety of housing
- Emphasis on bike and pedestrian routes
Mix of Housing Types

- Davis
- Weber
- Utah
- Salt Lake

- Multi-Family
- Town-homes
- Small Lot
- Medium Lot
- Large Lot
- Very Large Lot
Workshops: diversity of opinion

- Road emphasis or transit emphasis
- What happens on the suburban fringe: rural ranchettes or smaller lots?
4 Scenarios

- A Base case forecast
- B Heavy rail transit with TOD centers
- C Arterials and light transit with linear village
- D New freeway emphasis with jobs/housing balance
Scenario experiment:
where might growth happen given:

- Projected Growth
- Land use Ideas (virtual zoning)
- Transportation Ideas
- Private sector response
  - Urbansim
Scenario Evaluation: How They Compare

2040 What-If? Scenario

- Air Quality
- Transit Riders
- Traffic
- Water Use
- Miles of Driving
- Open Space
- Housing Opportunities
- Area Developed

What-If? Scenario Evaluation: How They Compare
TRANSPORTATION
Traffic Congestion

This is the time lost due to traffic delays, per household per day.
Driving Distances (auto)

This is the average distance being driven per household on a typical weekday in 2040.
Vehicle Hours of Travel

The time spent traveling by auto is a function of both the distance and the amount of delay.
Public Transportation

This is the estimated increase in transit use from now to 2040 in each scenario.
Commute Time (auto)

This is the average time it takes to get from home to work.
GROWTH
Mix of Housing Types

New Housing, Now to 2040

Below is an estimate of the housing mix in each scenario.
Growth Near Public Transportation

Residents and employees that live within walking distance are statistically more likely to ride transit.
Land Reuse

Land re-use refers to development that occurs in areas that are already built.

As land re-use increases, there is less growth on vacant land.
Vacant Land Consumption

Expansion of Developed Land Area, now to 2040

This refers to the increase in size of the region’s development footprint.
Balance Between Jobs and Housing

A balance of jobs and housing occurs when there are enough jobs for employees in an area but not substantially more or less.

Improving the balance tends to result in shorter commute trips.
Growth in Mixed Use Areas

People that live or work in an area that mixes jobs, shopping and housing tend to walk and bicycle for daily trips more than others.

Mixed use development also tends to decrease the length of motorized trips.
Environment
Growth Impact on Highly Sensitive Lands

This is an estimate for scenarios of growth’s impact from now to 2040 on highly sensitive lands – areas that exhibit at least two of the following characteristics:

- Steep slopes
- Wildlife Habitat
- Prime Agricultural Soils
- Wetlands, Streams and Lakeshores

See the Sensitive Lands Study Poster for more detail
New Water Sources (Outdoor Use)

As we grow, we will need additional water capacity.

This graph is an estimate of the additional water needed to irrigate our homes and businesses.
Carbon monoxide inhibits the blood's capacity to carry oxygen.
City Options to Implement

- Cities may elect to have WFRC utilize the vision when considering transportation and land use options for their city.
IMPLEMENTING THE VISION

II - Principles

- Draft regional growth principles
- Analyze effects thru scenarios
- Adopt principles
- Report measures on preferred scenario and RTP alternatives
- Expand RTP project ranking with principles
- Expand TIP project ranking with principles
Principles

- Public infrastructure shall be cost effective, efficient and adequately maintained
- Provide regional mobility through a variety of interconnected transportation choices
- Integrate local land-use with regional transportation systems
- Provide housing for all life stages, households and incomes
Principles (con’t)

- Promote Public Health & Safety
- Enhance the regional economy
- Promote regional collaboration
- Promote a sense of community
- Protect, preserve and enhance the environment
Transportation Measures

- Traffic congestion – VHD/HH
- Driving distance – VMT/HH
- Vehicle hours of travel – VHT/HH
- Commute times - minutes
- Transit use – percent increase
Land Use Measures

- Housing mix - % of types
- Walk to transit with 10 minutes - % of growth
- Growth thru land reuse - % of growth
- Vacant land consumed – sq. miles
- Jobs housing balance by area
- Growth in mixed use areas - % of growth
Environmental Measures

- New development on sensitive land – sq miles
- Additional water needed – acre feet/year
- Winter carbon monoxide – tons emissions/day
MPO Options to Implement

- May elect to adopt regional growth principles
- … distilled from scenarios
- May elect to incentivize local implementation of principles