

Prepared by DKS Associates



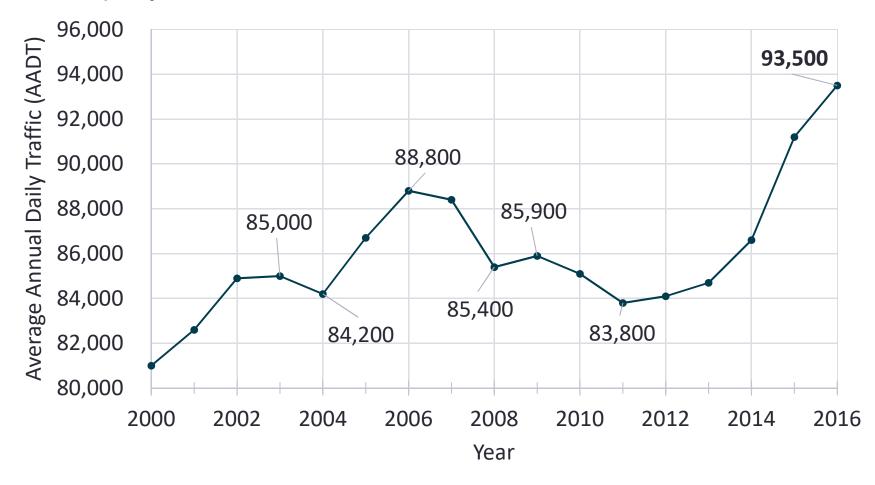
A Technical Review of Transportation Infrastructure Options

Agenda

- Agenda Review and Meeting #1 Recap
- Future Transportation Conditions
- Transportation Solution Ideas
- Evaluation Criteria (handout)
- Wrap up and Next Steps

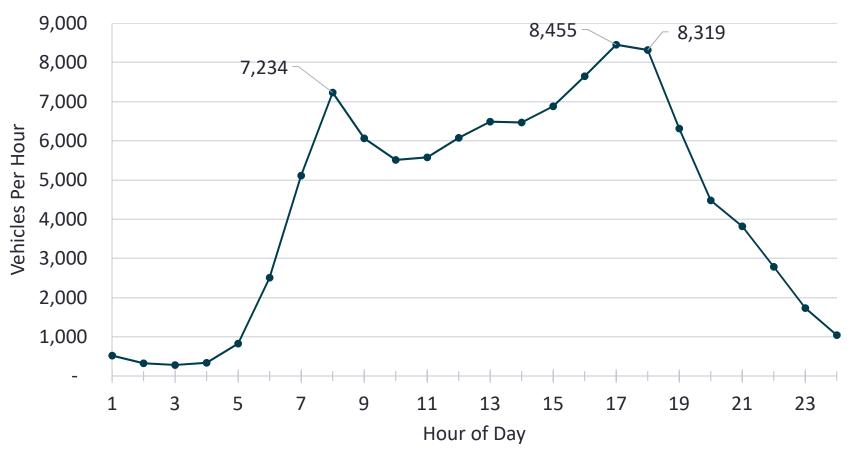
Traffic Growth Over the Years

Using data from ODOT Traffic Recorders, traffic across the Salem Bridges has increased by 12% from 2011 to 2016 or an average of 2.3% per year



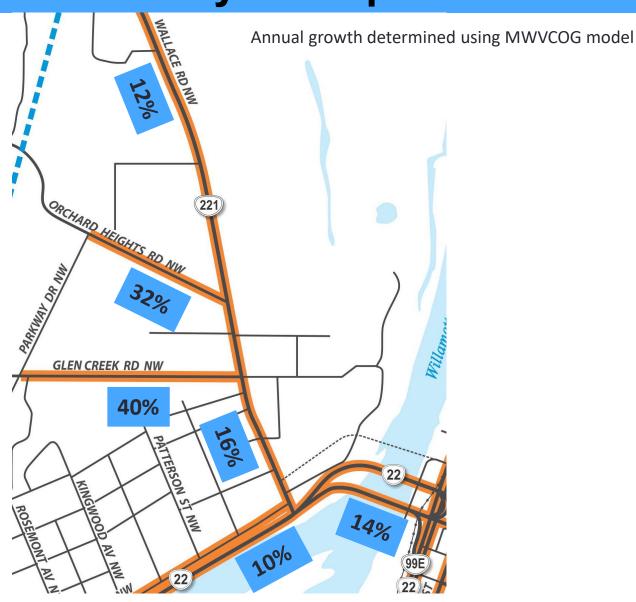
Average Hourly Weekday Volumes



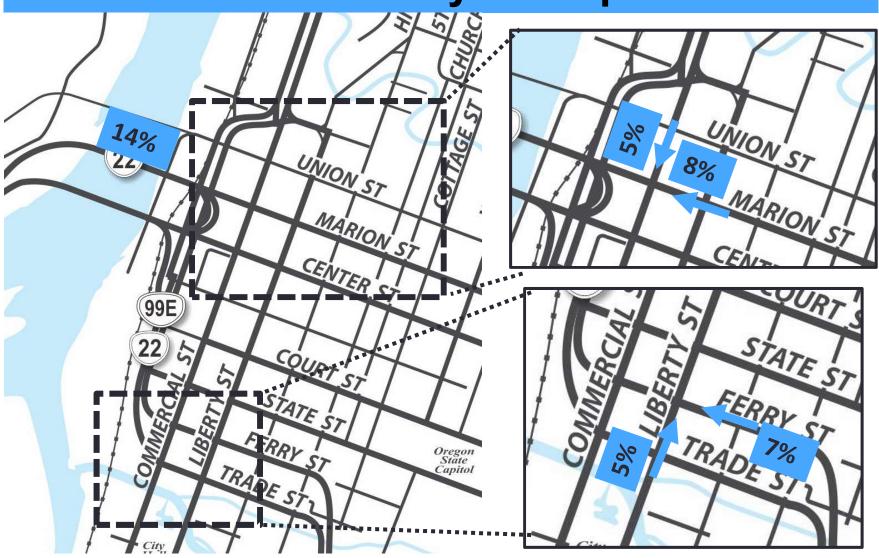


Bi-directional volume data from ODOT ATR #24-014, typical weekday April to June of 2017

AM Estimated 10-year Trip Growth

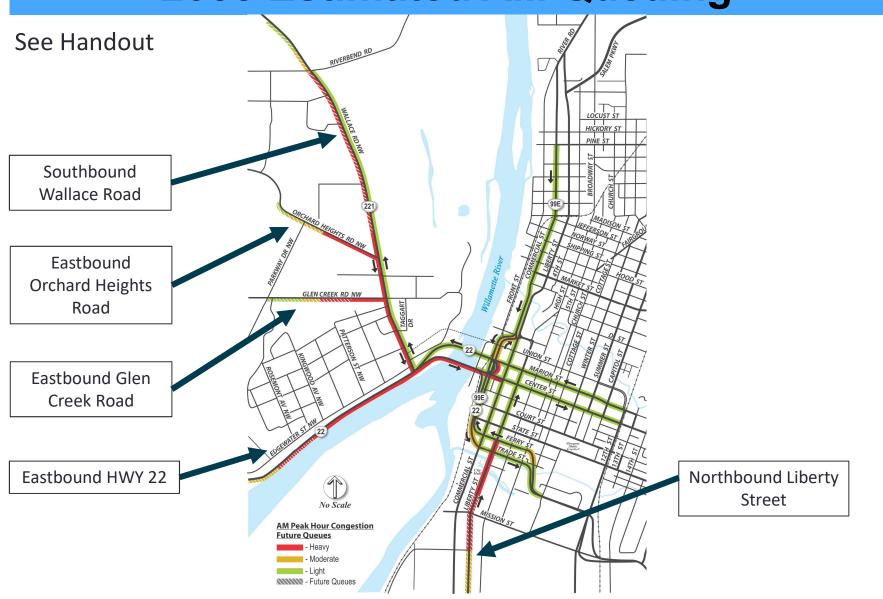


PM Estimated 10-year Trip Growth

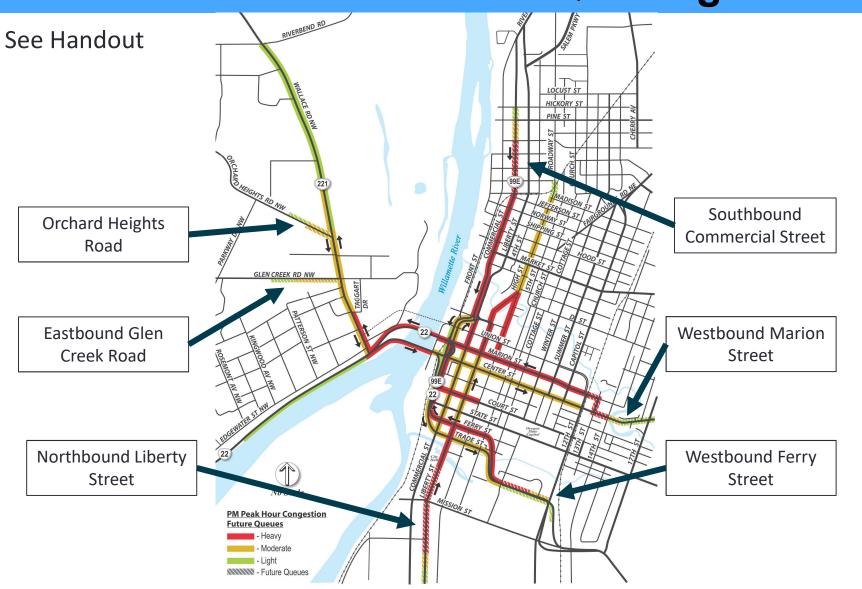


Annual growth determined using MWVCOG models

2035 Estimated AM Queuing

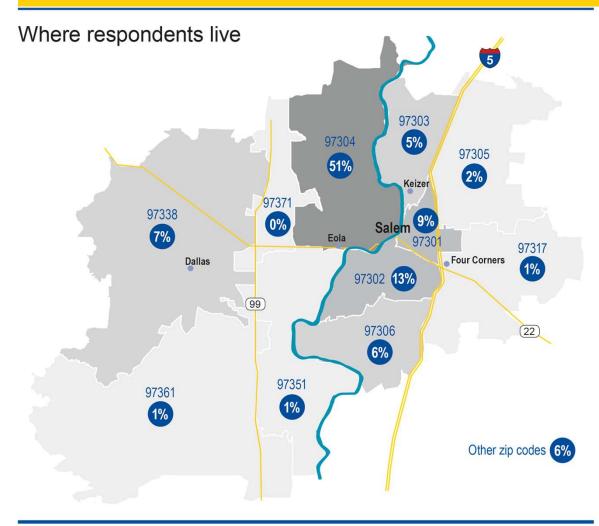


2035 Estimated PM Queuing



My Ideas Questionnaire

Public Responses



Online and hard copy questionnaire, non-scientific, distributed via City website and social media from 2/24/18 to 3/10/18, asking for ideas to relieve traffic congestion in the project area.

1,300 RESPONSES 99 PAGES OF COMMENTS CODED TO REVEAL THEMES

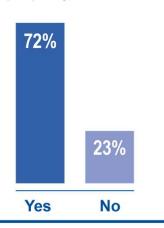
My Ideas Questionnaire

Public Responses

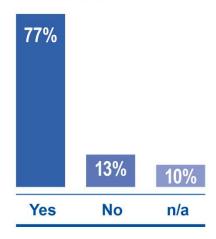
How respondents get around:

	Always	Mostly	Sometimes	Rarely	Never
Car, truck or motorcycle	73%	23%	4%	-	-
Bicycle	1%	1%	13%	20%	66%
Walking	1%	3%	37%	23%	26%
Bus	-	-	6%	13%	80%

Respondents who own property in Salem



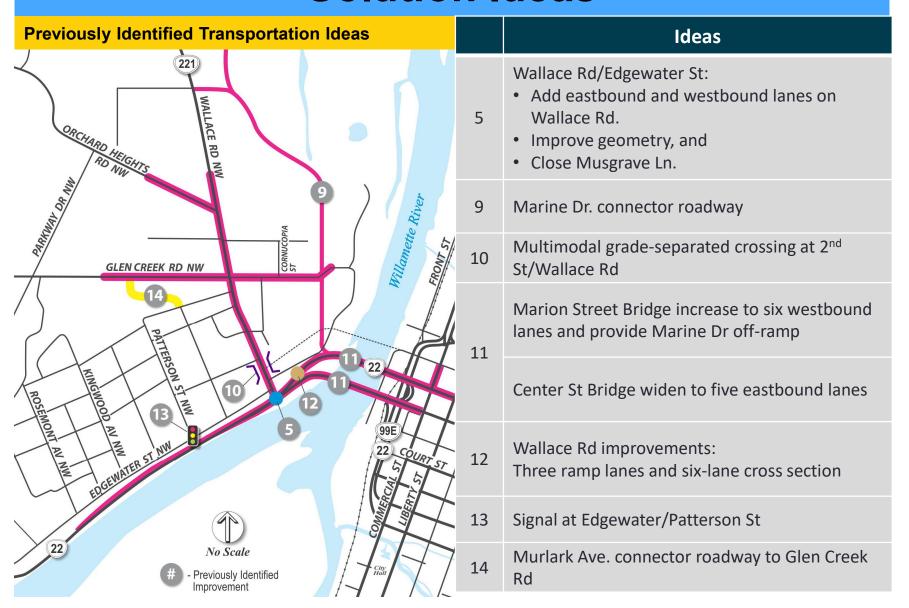
Respondents who work in Salem

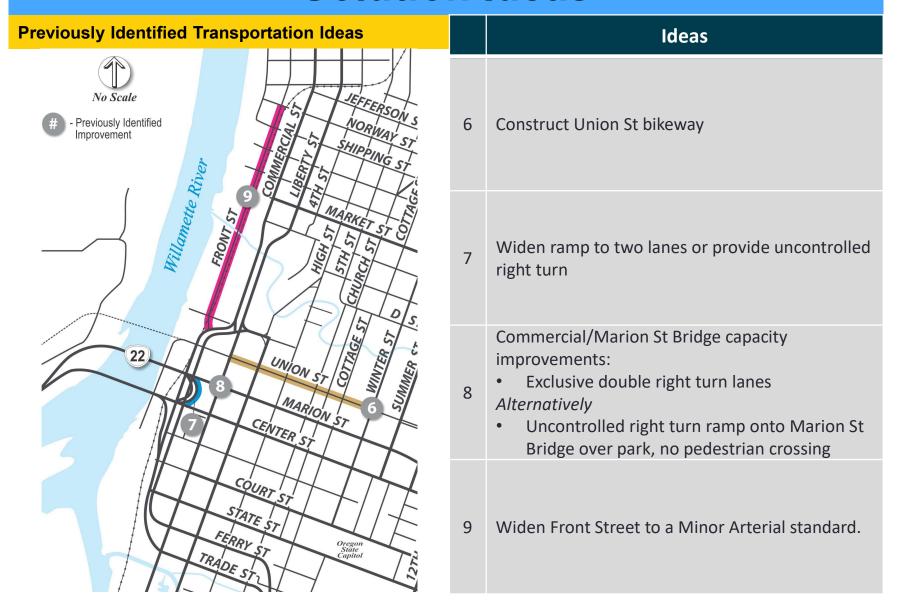


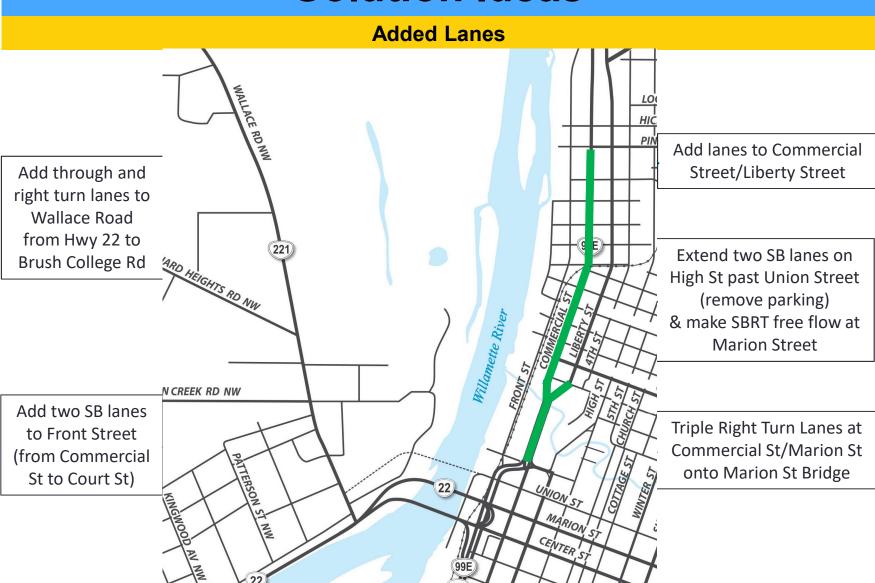
Idea Goal

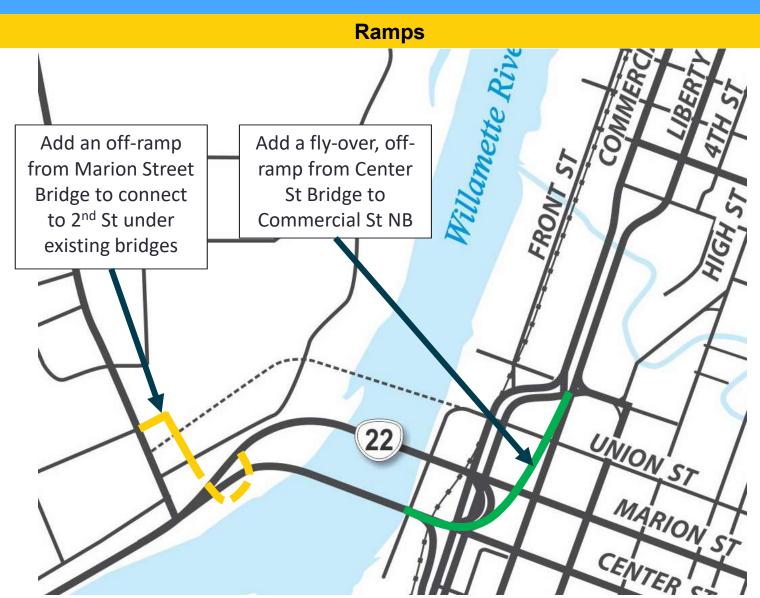
GOAL: Improving vehicular mobility and identifying ways to reduce vehicular congestion within the study area.

- Develop ideas to reduce traffic congestion and vehicular mobility in the:
 - Short term (within 5 years)
 - Medium term (within 10 years)
 - Long term (longer than 10 years)
- Select the most promising ideas for high-level traffic engineering analysis
- Conduct traffic engineering analysis on three selected ideas that include the following:
 - Estimated immediate improvement in traffic flow, delay, and queuing.
 - Estimated future improvement in traffic flow, delay, and queuing.



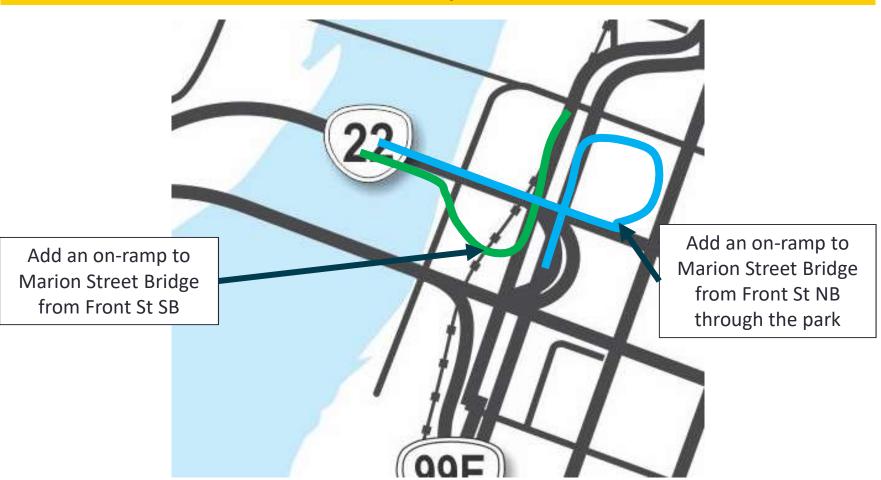






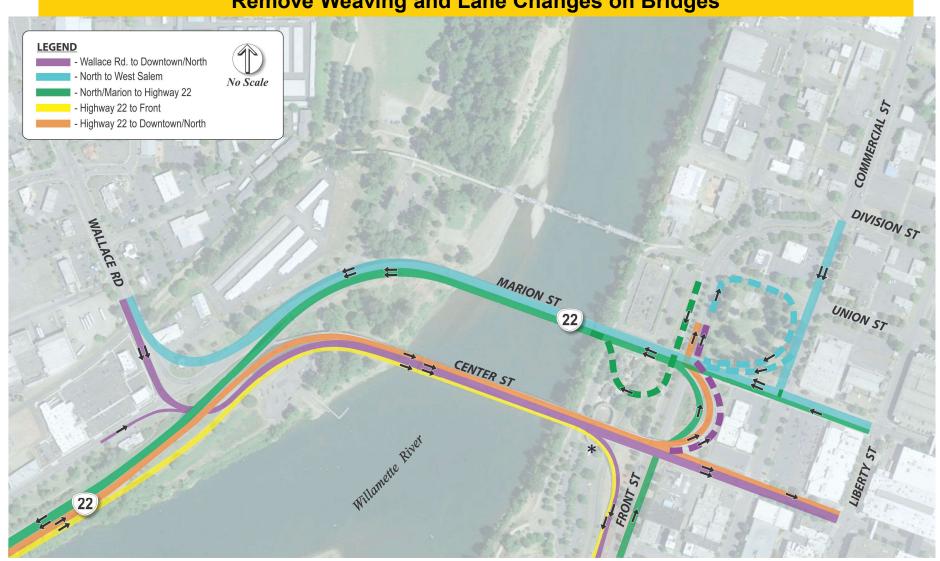
Solution Ideas

Ramps



Solution Ideas

Remove Weaving and Lane Changes on Bridges



A Technical Review of Transportation Infrastructure Options

Solution Ideas

Improved Operations

- Improved Signal Timing and Synchronization
 - Marion Street and Center Street
 - Wallace Road
 - Commercial Street
- Pedestrian Crossing Modifications
 - Increase Pedestrian Delays during peak periods (longer cycle lengths)
 - Add grade-separated crossing of Front Street between downtown and Riverfront Park
- Remove Traffic Signals
 - Commercial Street/Union Street
 - Edgewater Road/Wallace Road

Solution Ideas

Others

- Improve Signage
- Allow motor vehicle traffic on Union Street Bridge during peak congestion
- Add Bus Pull-out Lanes
- Reversible travel lanes
- Open Musgrave Avenue through Wallace Marine Park to Glen Creek Road

A Technical Review of Transportation Infrastructure Option.

Solution Ideas

Travel Demand Management (TDM)

Transit

- Increase bus frequency to west Salem
- Downtown circulator
- Expanded Park and Ride services
- Dedicated transit/carpool lanes

Other

- Improve facilities for bicycles and pedestrians
- Discourage future development in west Salem
- Encourage high-density land use in downtown
- Incentives to change travel behavior: telecommuting, staggered work hours
- Implement tolls and increase gas tax and parking costs in downtown

Evaluation Criteria

See Handout

Questions?