Transportation Transformation Back to the **FUTURE**



Why are we here?

- Urbanity! = Efficiency - (let us get real... Cities created to minimize transportation costs)
- Place Making (shush...urbanity)
- Safety for all users (Civility -some not ready)
- Multi-modal (Efficiency)
- Fiscally responsible (Bang for buck)
- Right-sizing "Road Diets" term fading











- Chris Comeau, Bellingham
 Alabama Street Corridor
- Joel Pfundt, Redmond – Downtown East / West Corridor Study
- Kendra Breiland, Fehr & Peers – Kirkland, Juanita Drive Corridor Study









Present-Day Alabama Street

Major east-west commuter route

<u>Alabama ADTs</u> 13,000 west 19,000 central 16,000 east

Arterials Intersect Cornwall – 8,100 James – 15,100 Orleans – 9,400 Pacific – 4,400 Woburn – 19,000











Study Solutions to Known Problem & Construct Safety Improvements (Sounds like crazy-talk, right?)

Unacceptably high number of collisions on Alabama

- , , , ,
- \$1,461,824 grant funds awarded to reduce collisions
- Highway Safety Improvement Program (federal)
- WSDOT Target Zero Goal = Reduce collisions
- Phase 1 Feasibility Study/Alternatives Analysis
- Phase 2 Construction of Safety Improvements

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Multi-Year, Multi-Agency Public Process

- 2011-2012 Pedestrian Master Plan (2 Open Houses)
- May-June 2012 Alabama grant funds adopted in 6-Year TIP
- Aug-Dec 2012- Five Neighborhood Meetings
- February 2013 Alabama Public Open House #1
- 2013-2014 Bicycle Master Plan (2 Open Houses)
- March 2014 Alabama Public Open House #2
- March 2014 Transportation Commission
- April 2014 City Council Public Hearings
- May 2014 Roosevelt Community Meeting to discuss C-curb
- June 2014 City Council vote to approve safety improvements

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1) No action/no change 2) Comprehensive 4-to-3-lane "Road Diet" 3) Modified 4-to-3-lane "Road Diet"

- 4) Hybrid 4-to-3-lane "Road Diet"
- 5) Additional pedestrian crossings
- 6) Accommodation of parallel and intersecting "Bike Boulevards"
- 7) Strategic relocation and consolidation of WTA bus stops
- 8) Access Management: median, turn restrictions, & turn lanes
- 9) Consider resurfacing the 1.75-mile Alabama corridor
- 10) Examination of the speed limit

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Traditional 4-to-3-lane "Road Diet"

Reallocate physical space to improve conditions for other uses

Proven method to reduce collisions; removes left-turns from travel lane

Generally possible up to 20,000 ADT, but also depends on pm peak at intersections

Can smooth traffic flow, but can also increase congestion Can have negative

consequences for transit service

















Alabama Corridor Crossings

5 New signalized crossings of Alabama are recommended at:

- Ellis Street Install flashing crosswalk (from St. Paul) with center lane refuge
- Grant Street Enhance flashing crosswalk with center lane refuge
- Moore Street Install HAWK signal across 4 lanes
- St. Paul Street Install HAWK signal across 4 lanes
- Undine Street Install HAWK signal across 4 lanes
- Michigan Street Install HAWK signal and center lane refuge

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Resurface the Alabama Corridor

- Project 1.75-miles Cornwall Ave to base of Alabama Hill
- · Riddled with cracks, very poor pavement rating
- Scheduled for 2015 arterial overlay program
- Additional \$1,100,000 in local Street funds













Conclusions

- Multimodal approach reduces focus on automobiles; improve safety, mobility, quality of life for all users
- Vehicle collisions will be significantly reduced on east and west ends due to proven safety counter-measures
- Decisions based on public protest and popular opinion may not reduce vehicle collisions where needed most
- Low-Cost, High Benefit: For a total cost of \$2,562,000 the Alabama Street Multimodal Safety Improvements will completely transform 1.75 miles of this important eastwest corridor through the heart of Bellingham.





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Add left-turn lane from Undine & Woburn; Raised C-curb Median from Woburn & Superior

Spot Widening to Add Left-Turn Lanes Widen Alabama through Valencia and Verona intersections Extend left-turn lane from Alabama/Woburn traffic congestion & transit on-time performance Reduces collision risk





Downtown East-West Corridor Study

APA Washington Conference Spokane, WA October 16-17, 2014

Vision A community of connected neighborhoods with vibrant urban centers - inspired by nature, powered by innovation, and committed to excellence.













Project Principals

- Circulation
- Parking
- Travel Choices
- Parks and Open Space
- Land Use
- Great Streets
- Cleveland Street as "main street"
- Railroad Right-of-Way



Traffic Analysis

- Used the Bellevue-Kirkland-Redmond (BKR) EMME/2 Travel Demand Model to create 2030 forecasts
- Modified the City of Redmond Synchro/SimTraffic Model to simulate 2030 peak traffic operations
- Projected travel times on Redmond Way, Cleveland Street, and Bear Creek Parkway with the conversion

Challenges

- BKR model predicted 20 to 40 percent higher traffic volumes in downtown by 2030
- Close proximity of traffic signals in downtown
- Ends of the couplet where Redmond Way and Cleveland Street connect
- State route requirements

Questions we Considered with Couplet Conversion

- What are the facts about current travel behavior?
- What is the priority of the street?
 - regional mobility or serving local access
- Is there a viable street grid to handle two way traffic operations?
- Can you meet minimum capacity needs to prevent gridlock?
- What is the risk-reward?



Cleveland Streetscape Design Issues

- Address all modes within existing right of way
- On-Street Parking
- Americans with Disabilities Act
- Stormwater Infiltration
- Arts and Culture
- Historic Preservation
- Communications During Construction













Project Updates

- SR 908 designation removed from west half of corridor
- Project received WSDOT approval in 2009
- Received grants and Public Works Trust Fund Loans
- Project construction Schedule
 - Bear Creek Parkway Extension 2009
 - 161st Ave NE Extension 2011
 - 164th Ave NE Extension 2012
 - Redmond Central Connector 2013
 Cleveland Streetscape Early 2015
 - One-Way to Two-Way Conversion Early 2017



LIVE Downtown

- Over 1,000 new units in downtown completed since 2009
- Brings downtown units to about 3900 The goal is to add about 4,500 new residents in 2,500 new units by 2030
- Affordable housing 310 total inclusionary units, with 252 in Downtown and 58 elsewhere in the City
- Most buildings are mixed-use bringing business and jobs to downtown
- New residents are adding new life to downtown streets, parks, and businesses



11/13/2014



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