



Seattle Connections Improving Mobility and Linking Neighborhoods

Transportation Benefit District
August 1, 2011

Seattle Connections

- Keep people and goods moving
- Improve safety and reliability for all modes
- Make neighborhood connections



System Preservation Paving



- Allocate \$5M annually
- Deliver over 10 years:
 - 30 miles of major repaving
 - 380 spot repairs (1-3 blocks long)
- Double the annual number of blocks of repaired

Deliverables	Assume \$80 VLF	Annual CTAC III Deliverable	Outcome of New Investment
PAVEMENT PRESERVATION			
Paving - Major	\$ 2,500,000	3	30 lane miles over 10 years
Paving - Spot Repair	\$ 2,500,000	38	Double the number of annual spot repairs

System Preservation Traffic Safety



- Allocate \$3M annually
- Double the investment in crosswalk and signal maintenance
- Crosswalks replaced every six years, reduced from 17
- Funding enables traffic signals to be maintained at industry standards

Deliverables	Assumes \$80 VLF	Annual CTAC III Deliverable	Outcome of New Investment
TRAFFIC SAFETY			
Crosswalk Maintenance	\$300,000	600	17 year replacement to 6 year replacement
Regulatory Sign Maintenance	\$720,000	4500	30 year replacement to 15 year replacement
Destination and Guide Signs	\$250,000	500	Initiate a replacement program for oldest, most damaged signs
Signal Preventative Maintenance	\$421,200	1053	Restores signal preventative maintenance program to industry standard of twice a year
Warning Beacon Replacement	\$105,000	7	Implements a program to replace failed and obsolete warning beacons; 27 year replacement cycle
Optimize Signal Timing	\$125,000	5	6 year optimization cycle to 4.5 year cycle. Industry standard is 3 years
Traffic Camera Replacement	\$88,000	11	21 year replacement cycle to 8 year industry standard replacement cycle
Signal Detection Replacement	\$500,000	200	54 year replacement cycle to 22 year industry standard replacement cycle

Pedestrian Master Plan Implementation



- Allocate \$2.85M annually
- Deliver over 10 years
 - 110 blocks of sidewalks
 - 250 pedestrian countdown signals
- Double the city's output of sidewalks and pedestrian signals

Deliverables	Assumes \$80 VLF	Annual CTAC III Deliverable	Outcome of New Investment
PEDESTRIAN IMPROVEMENTS			
Crossing Improvements	\$ 300,000	20	Add 40 percent more crossing improvements
Pedestrian Countdown Signals	\$ 100,000	25	Double the amount of pedestrian countdown signals
Sidewalks	\$ 2,420,000	11	Double the amount of blocks of sidewalks
Accessible Pedestrian Signal	\$ 50,000	10	Fund a grant-matching program for Accessible Pedestrian Signal

Bicycle Master Plan Implementation



- Allocate \$1.85M annually
- Deliver over 10 years:
 - 60 miles of bike lanes
 - 25 miles of neighborhood greenways
- Increase in output of on-street bicycle facilities by over 50 percent

Deliverables	Assumes \$80 VLF	Annual CTAC III Deliverable	Outcome of New Investment
BICYCLE IMPROVEMENTS			
Bicycle lanes and sharrows striped	\$ 504,000	6	Add approximately 50 percent more bike lanes and sharrows
Signed bicycle routes installed	\$ 46,400	8	Add approximately 50 percent more signed bike routes
Bicycle parking spaces installed	\$ 49,500	165	Double the amount of bike parking installed
Greenways	\$ 1,250,000	2.5	Begin a neighborhood greenway program in the BMP



Transit Improvement Projects and Programs

Working Toward Long Term Goals



Stop and Station Improvements

- \$1.3 million annually
- Improve neighborhood links to transit
- Focus on transfer points and hubs
- Add amenities, such as:
 - Sidewalks, lighting, wayfinding, real-time electronic schedules
- Implement educational programs



Neighborhood Transit Opportunity Fund

- \$2.7 million annually
- Provide alternative transit
- Focus on underserved populations
- Partner with Metro, Sound Transit, employers, and social service providers



Bus Priority Improvements and Benefits



Improvements:

- Signal Priority
- Off Board Payment
- Bus Lanes
- Sidewalk Extensions (bus bulbs)

Results:

- 10-20 percent faster travel times
- 25 percent increase in ridership

Electric Trolleybus Expansions and Enhancements

Improvements:

- Strategic route modifications
- Extensions
- Conversion of diesel routes

Results:

- Reduced Emissions
- Reduced Noise
- Reduced Costs



High Capacity Transit

- Alternatives Analyses and Environmental Review
- Design
- Construction
- RESULTS:
 - Adds Capacity Where Most Needed
 - Clean, Quiet, and Comfortable
 - Moves Seattle Towards World Class Transit System



Project Cost and Schedule Examples

Cost Range (millions)	Project Type	Time to Complete (years)
\$3-15	HCT Alternatives Analysis, Environmental	1-2
\$8-37	HCT Design	2-3
\$70-310	HCT Construction	2-3
\$1-5	Trolleybus small project	1-2
\$5-40	Trolleybus large project	2-3
\$48-55	SLU to First Hill Streetcar Connection	4-5
\$5-10	Bus Priority Corridor	2-3