Metro System Overview

Transit Task Force April 20, 2010



Topics

- System Evolution
- Environment and Policy Considerations
- Performance
- Financial Issues

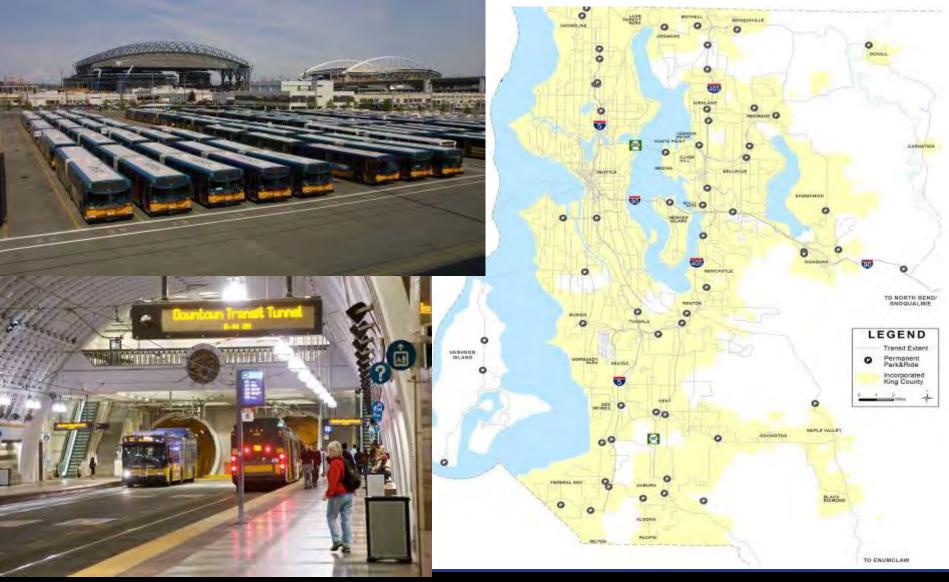
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Prior to 1995





Major Capital Projects





Vanpools and Carpools





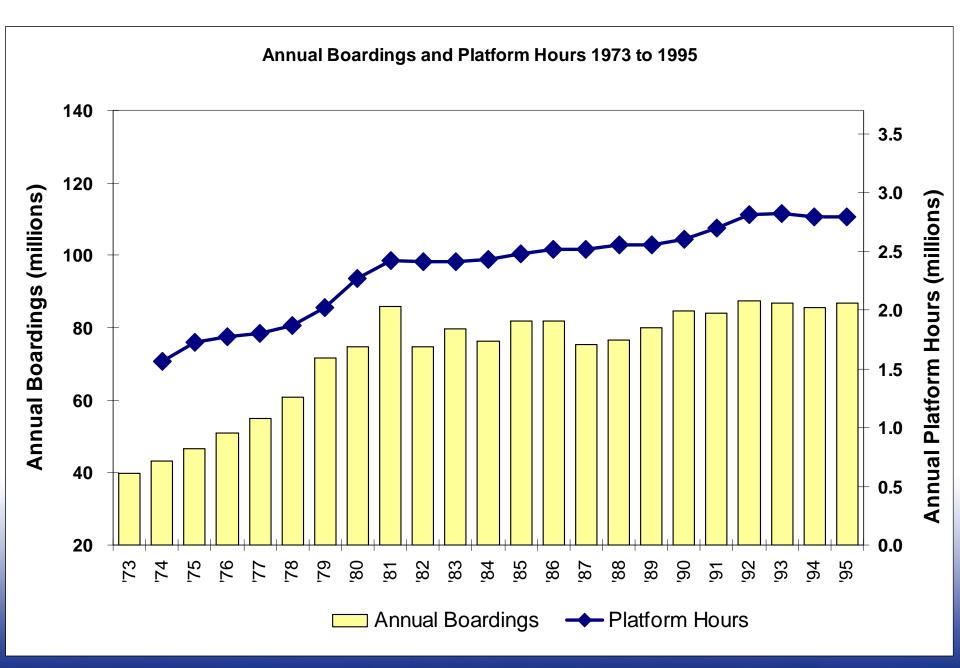






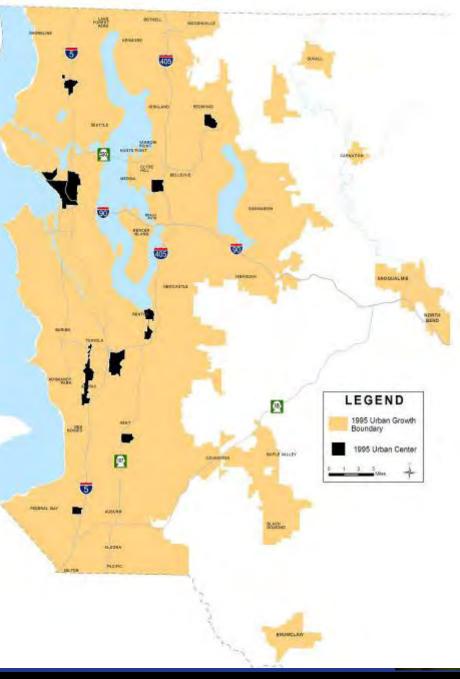
Paratransit





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1996-2001 Plan





Reallocated resources for natural gas conversion to fund new service

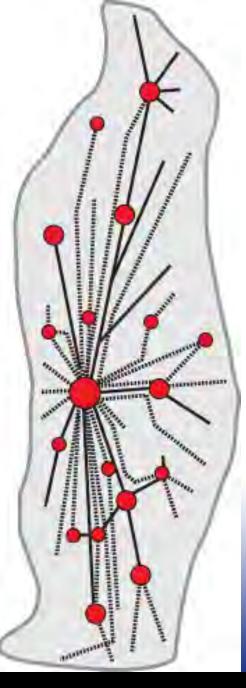




1996-2001 Plan: Objectives

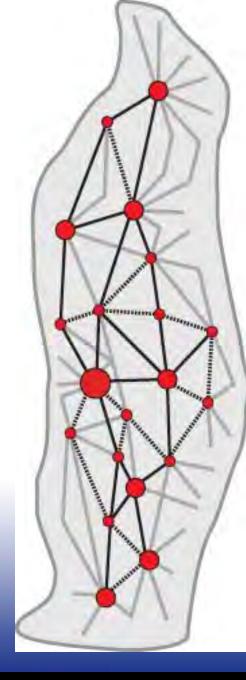
- Market Share
- Mobility
- Cost and Efficiency
- Social, Economic and Environmental Benefits
- Financial Feasibility





Shift to multicentric service design

- Restructure system
- Consolidate corridor services
- Improve transfer environment
- First use of allocation concept





More people, more places, more often







Consolidation of service in key corridors

Transit Hub improvements to enhance transfer experience





Measures of Success

- Market Share
 - Service Orientation
 - Market Penetration
- Mobility
 - Work trip HOV market share
 - Overall trip transit share
- Cost Efficiency
 - Transit ridership
 - Service effectiveness

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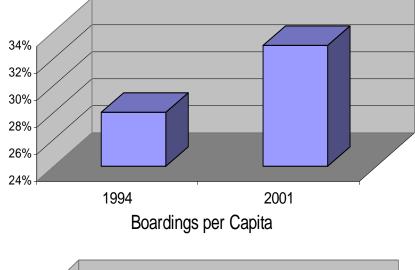
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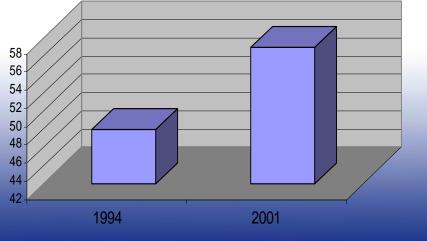
Market Penetration and Use

% of Households that Use Transit in last month

Market penetration



 Overall trip transit share

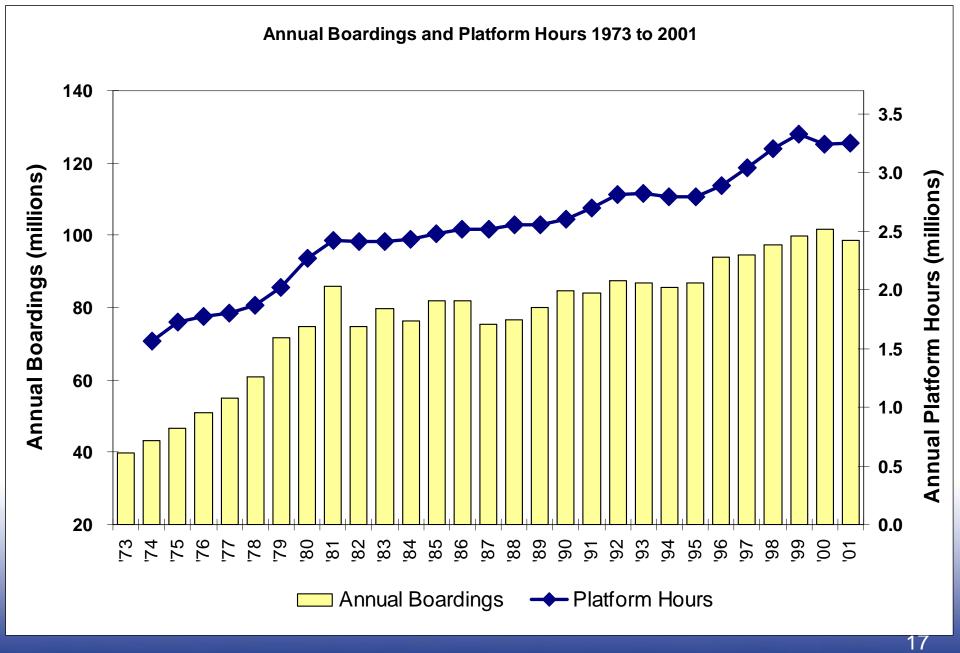


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Results and Outcomes

- Gains in ridership
- Increase in number of households with residents using transit
- Increase in transit use per capita
- Improved access to a wider array of locations and centers



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2002-2007 Plan: "Building on Success"

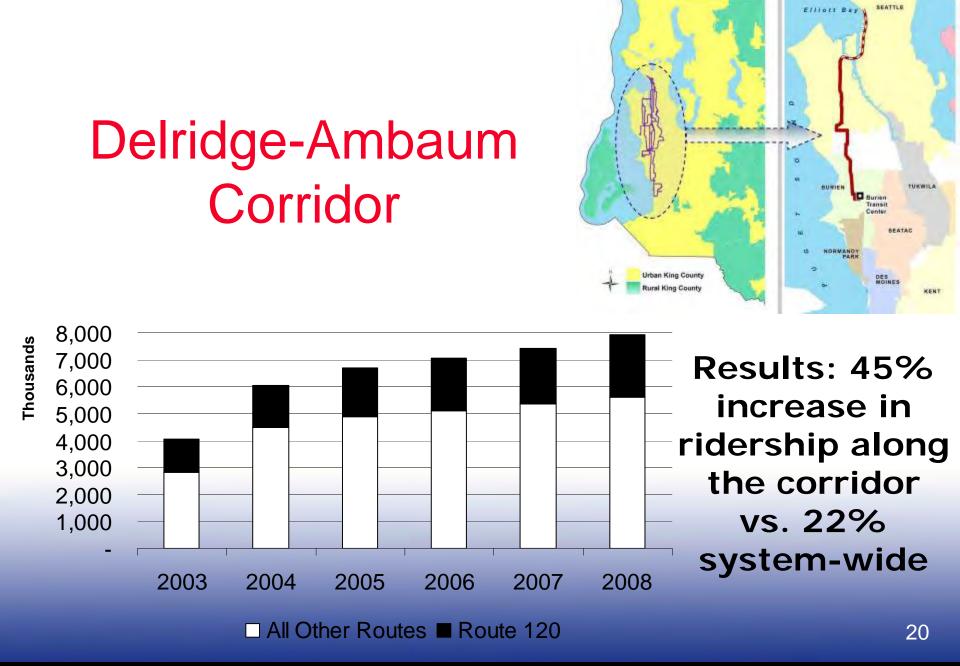
> Improve frequencies and span of service on two-way, all day, high ridership routes



Funding Issues

- 1999: I-695 approved. Metro's funding reduced by \$110 million per year (29% of budget)
- 2000: Transit sales tax authority raised by Legislature to 0.9 percent
- 2000: 0.2 percent Metro sales tax approved
- Dot com bust: The projected sales tax growth to fund most of the service adds in the plan is lost
- Plan became largely unfunded, but included the revised allocation policy of "40-40-20"





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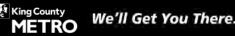
Major Service Restructure Outcomes

		Annual Ridership					
Year	Area/Route	Pre-Service Change	Spring 2008	Net Change in Boardings	% Change in Boardings	Added Service Hours	Boardings per Added Service Hour
2003	North King County	2,912,160	4,064,950	1,152,790	40%	4,300	268.1
2003	Rt 358	2,292,340	3,203,730	911,390	40 %	8,000	113.9
2004	Federal Way	2,311,640	3,598,320	1,286,680	56 %	12,600	102.1
2005	Ambaum-Delridge	4,371,220	5,723,300	1,352,080	31%	12,800	105.6
2005	Rt 7/49 Split	5,829,710	6,092,086	262,376	5%	10,400	25.2
2006	Rt 150/180	2,328,900	3,618,140	1,289,240	55%	20,600	62.6
2008	Central Eastside	1,507,710	1,776,520	268,810	18%	16,600	16.2
		21,553,680	28,077,046	6,523,366	30%	85,300	76.5

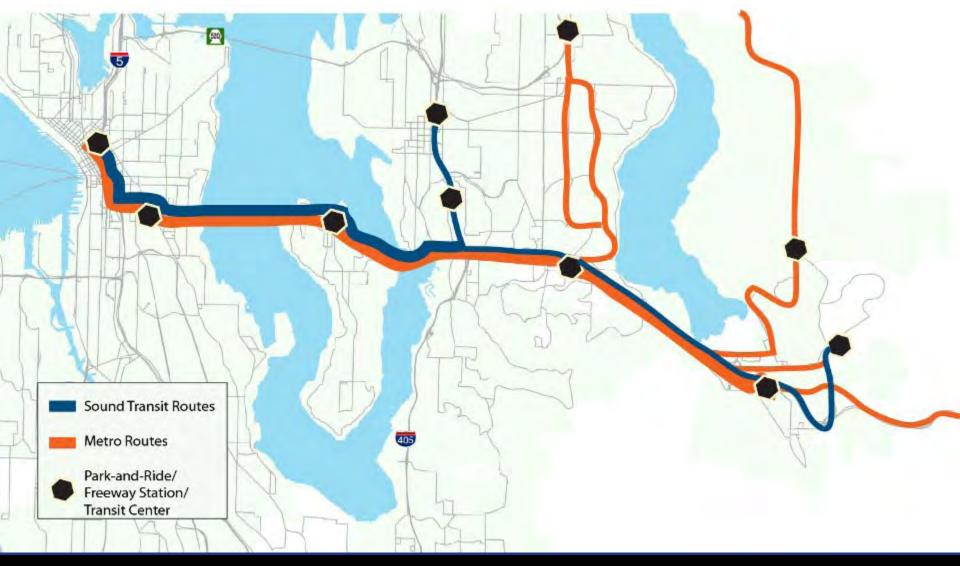


Coordination Among Central Puget Sound Transit Systems

- Regional fare agreement ORCA
- Good neighbor policy
- Joint funding of new facilities
- Seattle CBD operations
- Bus purchasing
- Tripper storage



Sound Transit Coordination: Service Plans



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2007-2010



- High ridership network improvements
- RapidRide/Bus Rapid Transit
- Service for rapidly developing areas
- Service partnership program
- Access and rideshare improvements





High Ridership Network



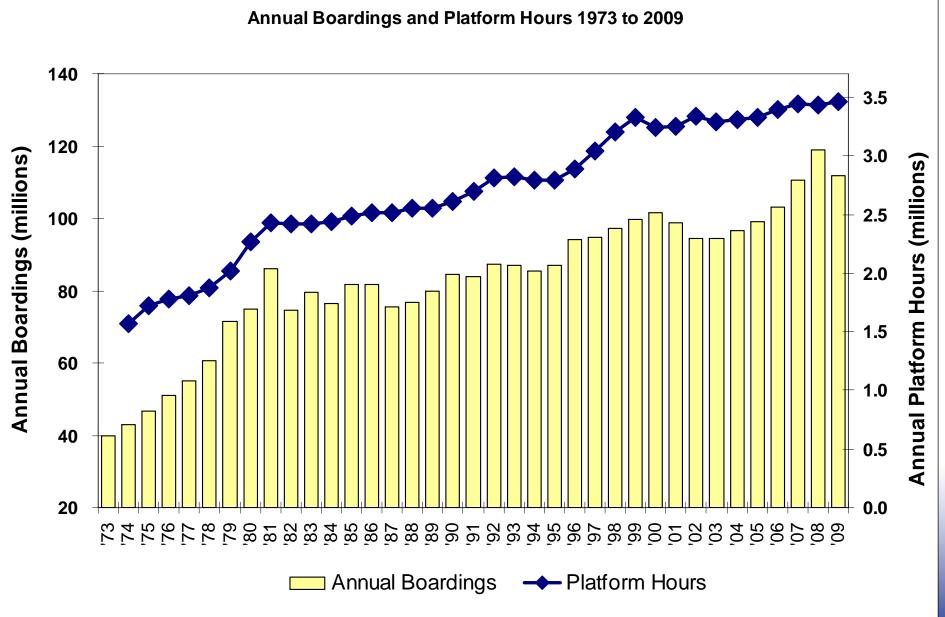


RapidRide BRT



Transit Now Implementation

- Core and developing area services initiated
- Service partnerships approved
- RapidRide funding secured & construction underway
- Drop in sales tax has again resulted in funding shortfall for service plans



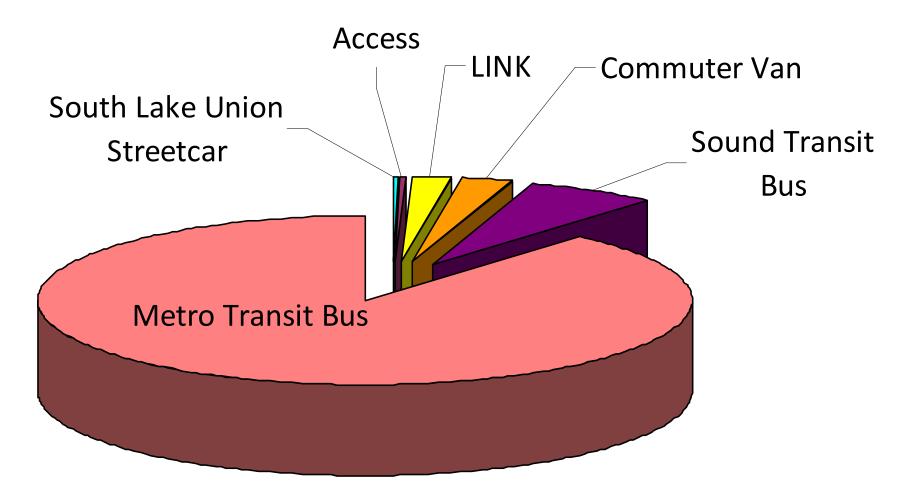
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2009 Ridership



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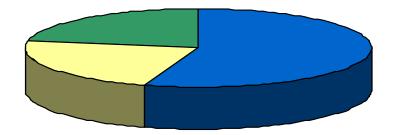
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Customers

- 52% Female
- 90% "choice" riders
- Occupation:
 - 73% Adult
 - 9% Students
 - 18% Retired
- Median Income: \$69,000



Seattle/North King County

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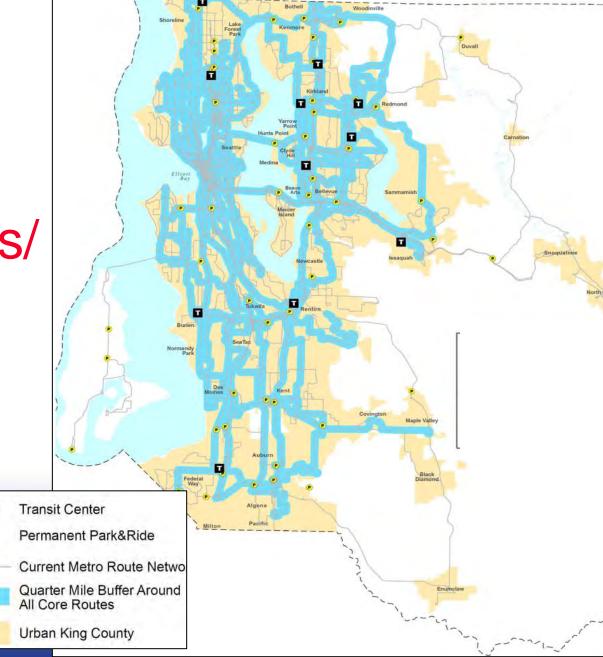
East King County

South King County



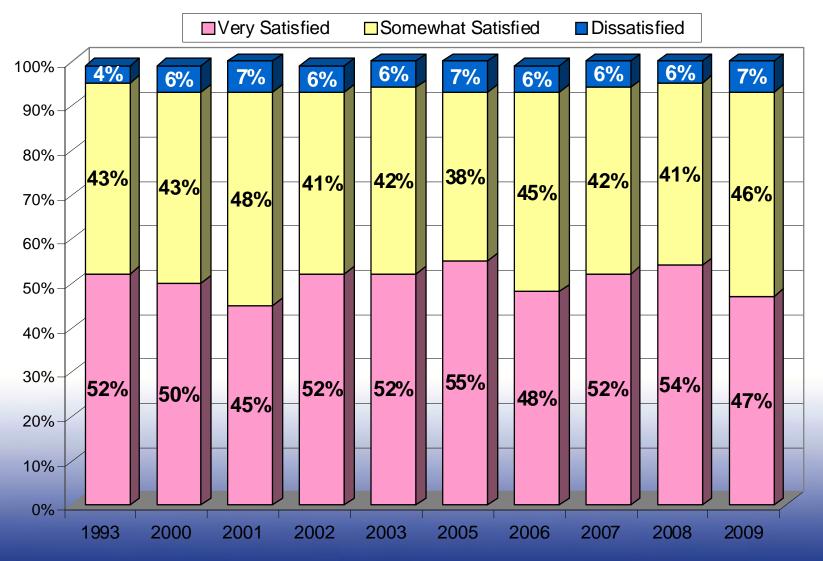
Transit Access/ Availability

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Overall Rider Satisfaction



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Environment and Policy Considerations



Built Environment and Demographics

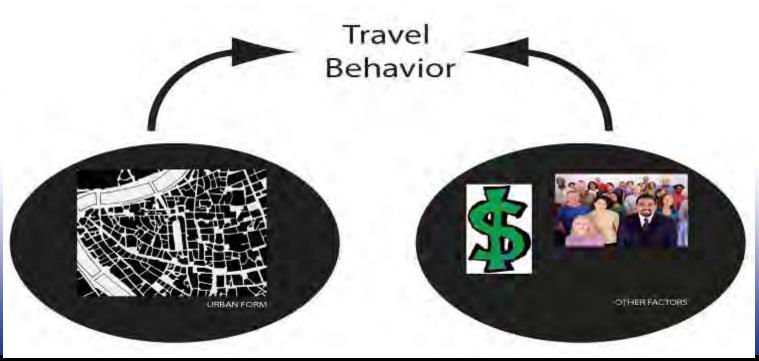
- Built Environment
 - Population Density
 - Employment Density
 - Urban Form

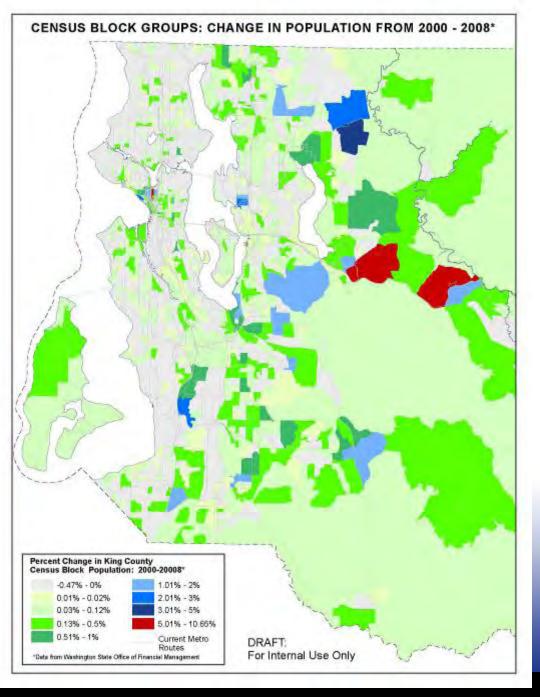
Other Factors

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Demographics

Cost





Population Growth



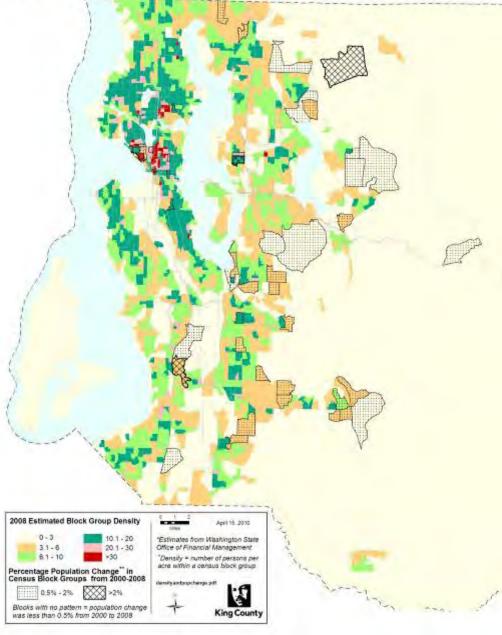
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CENSUS BLOCK GROUPS: 2008 Population Density & Change in Population from 2000 - 2008*

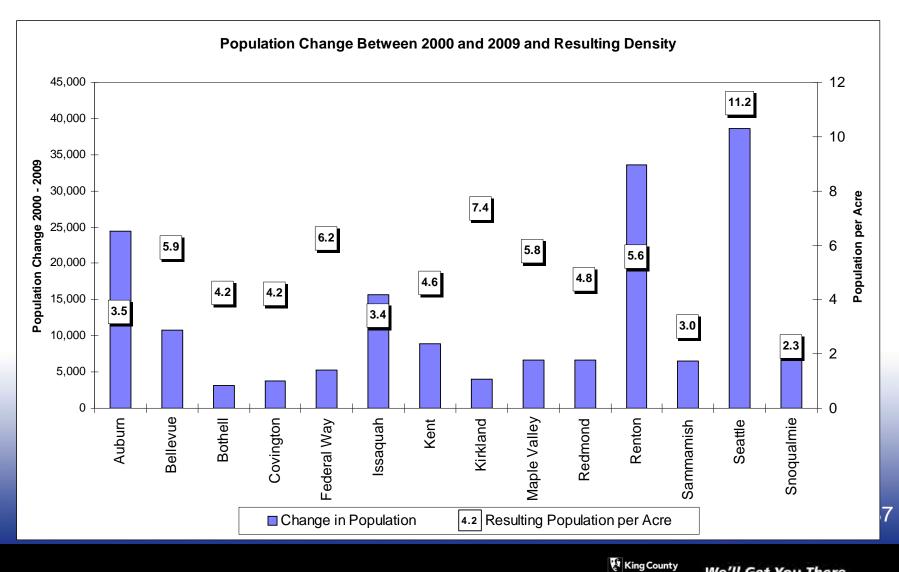


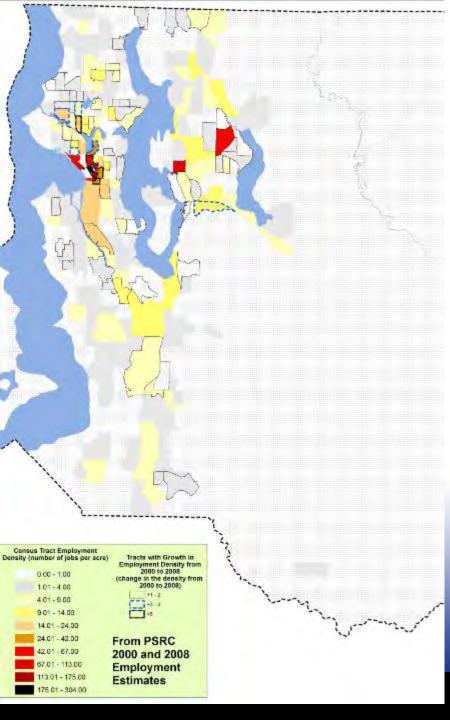
Population Density



Population Growth and Density

Excludes cities where population growth was <2,500



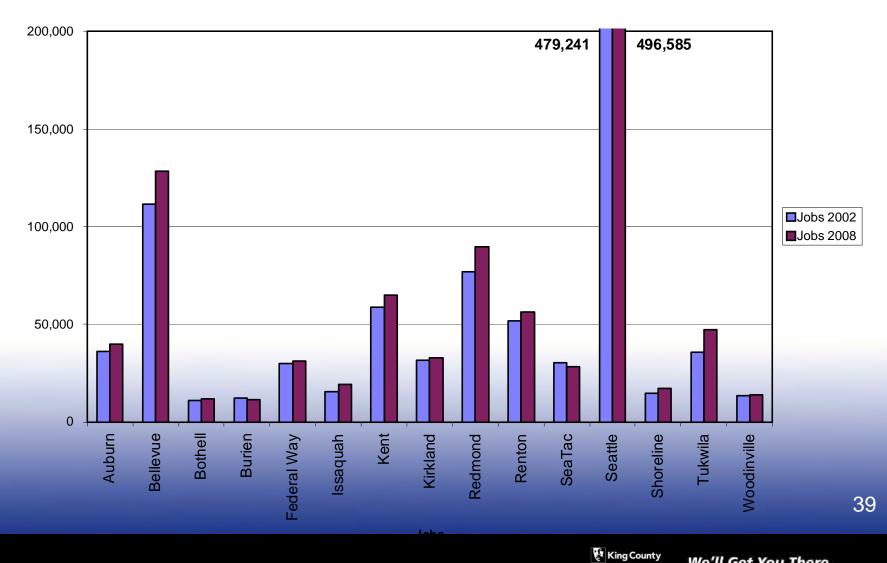


Employment Density



Employment Growth 2002 to 2008

Excludes cities where job growth was <2,500



Urban Form



Resource: Solutions, The Martin Centre, University of Cambridge

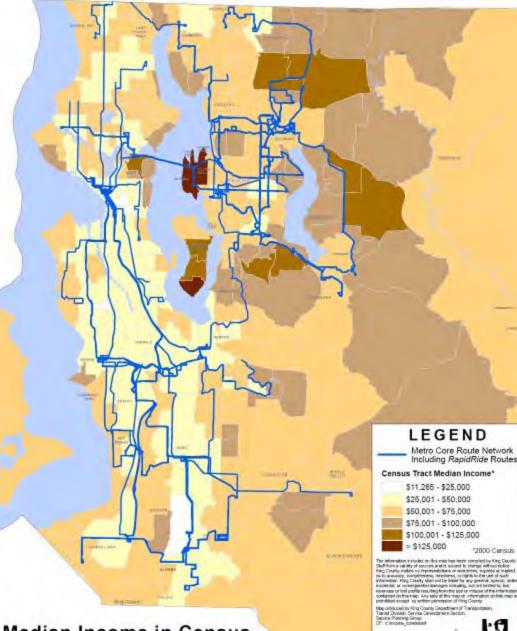


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Community Design

- Highest priority -- design with the pedestrian in mind
- Promote dense mixed-use development
- Interconnected street grid.
- Managed parking within the 10-minute walk zone
- Buildings fronts at sidewalks





Pidmiani 17, 2000

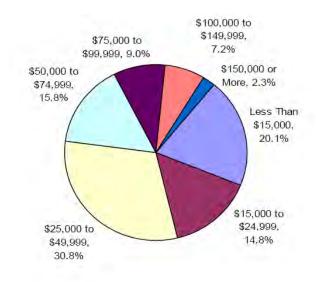
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Income

 Lower income generally translates to higher transit use

 Metro riders' average income exceeds other transit systems

US Public Transportation Passenger Income

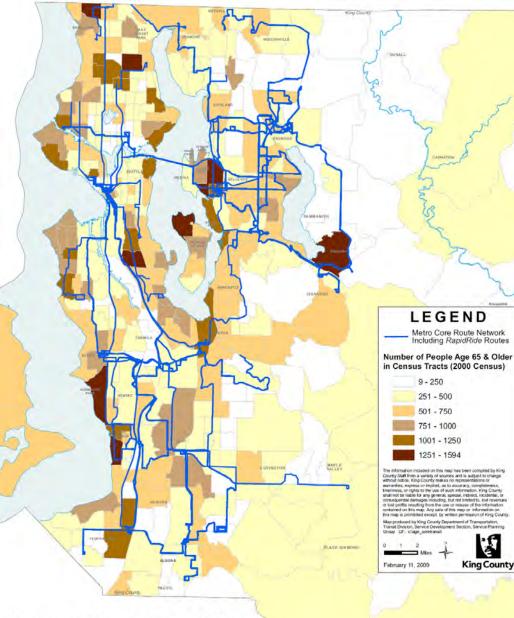


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Median Income in Census Tracts (2000 Census) & Metro Core Route Network



Number of People 65 and Older in Census Tracts (2000 Census) & Metro Core Route Network

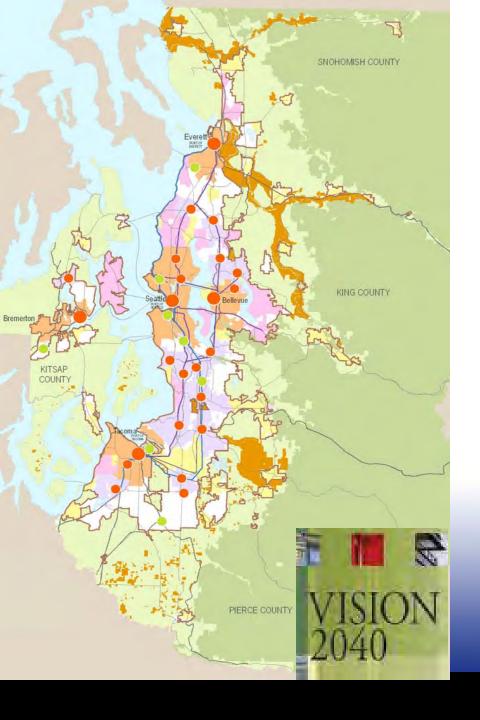
Aging Population





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Land Use Plans

- Focus growth in cities
- Relieve pressure rural and smaller cities



Social Justice

Regulatory obligations -1964 Civil Rights Act -Americans with Disabilities Act of 1990 (ADA)

Local Policies



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Current Policies and Planning Framework

- Comprehensive Plan:
 Overall guidance and policies for the future
- Strategic Plan: Strategies for how to get there

Comprehensive Plan

Goals -- define Metro's role in shaping the region's future.

Mobility, ensure the ability to move around the region

Growth Management, support livability communities within Urban Growth Area

Economic vitality, support access to jobs, education and other community resources

Environmental quality, conserve land and energy resources, and reduce air pollution

Build Partnerships, to maximize the effectiveness and efficiency of the transit system

Coordinate, transportation planning and implementation of service



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Strategic Plan

- Ten-year action plan to implement the policies in the Comprehensive Plan
- Identifies strategies for future development of bus, paratransit, and rideshare services
- Describes implementation timing
- Guides operating and capital budgets



Sound Transit ST2



 Link extensions and the First Hill streetcar will provide opportunities to restructure Metro services

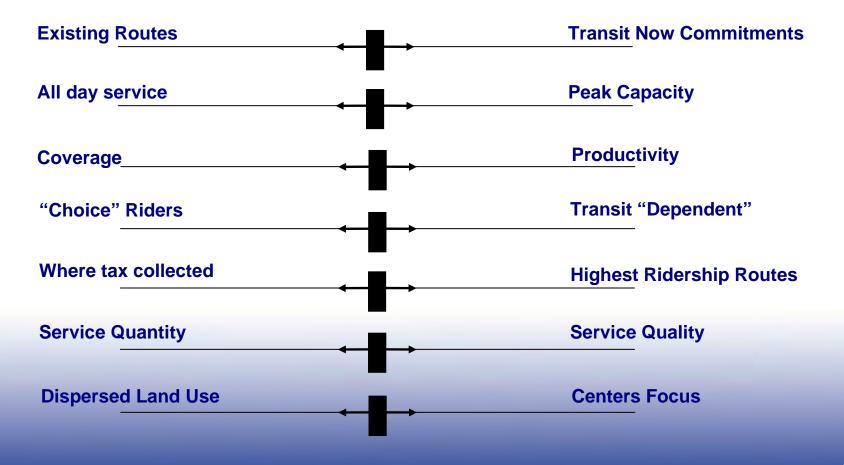
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System Design Tradeoffs

Policy Direction determines system emphasis



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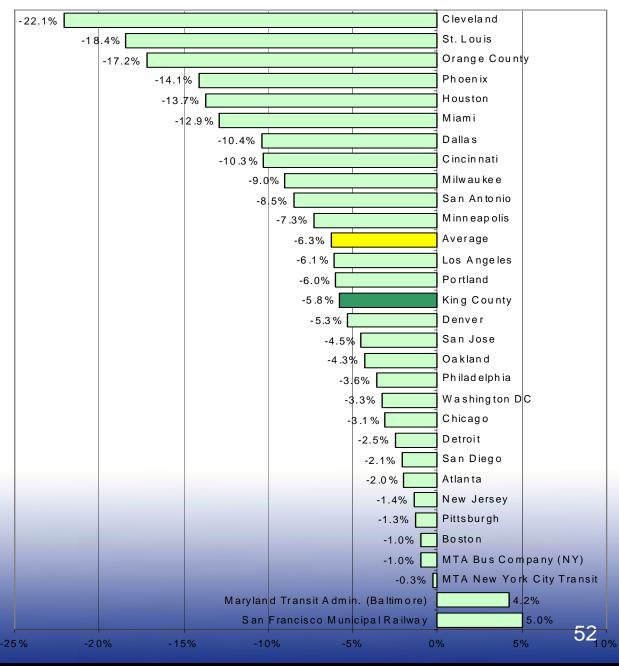
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Performance



Ridership Change

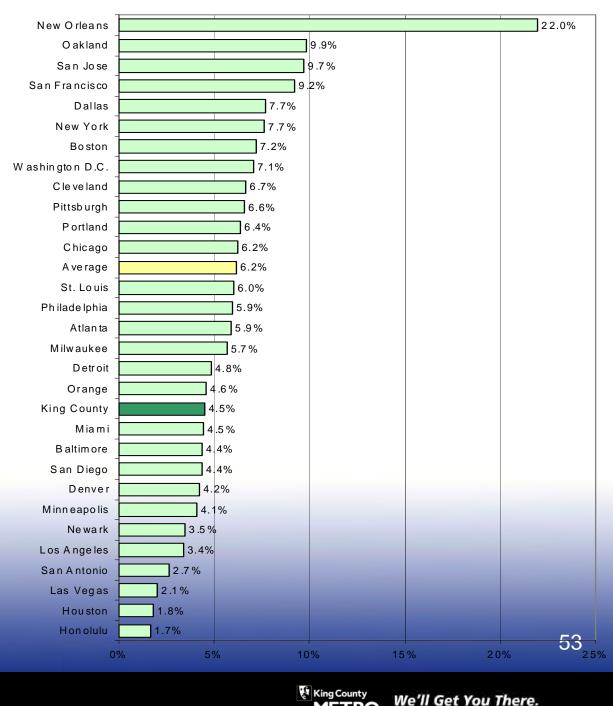
Percent Change in Ridership in 2009, Motorbus & Trolley Bus, NTD





Operating Cost Change

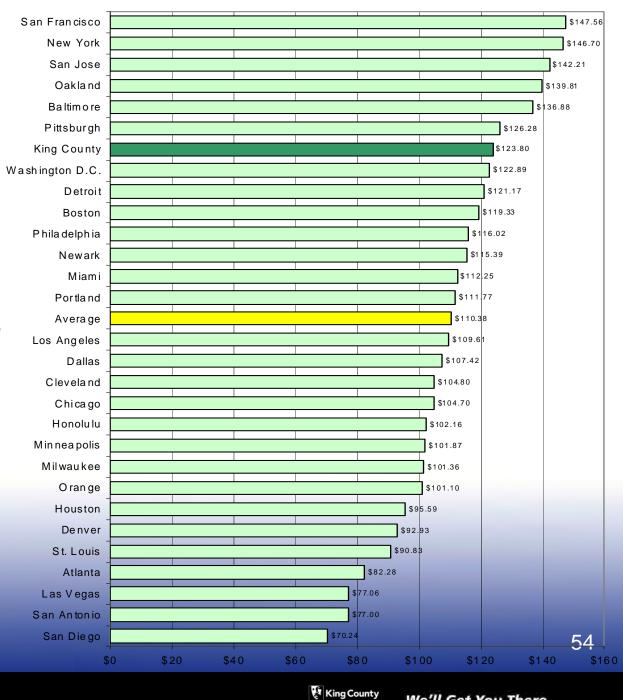
Average Annual Percent Change in Operating Cost per Platform Hour, 2001 to 2007 Motorbus & Trolley Bus, 2008 NTD



Transit Efficiency

Operating Cost per Platform Hour

Motorbus & Trolley Bus, 2008 NTD

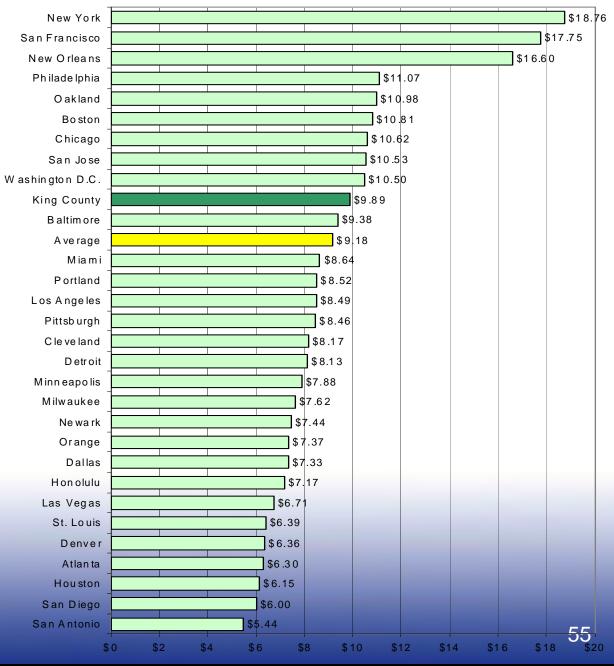


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Transit Efficiency

Operating Cost per Platform Mile

Motorbus & Trolley Bus, 2008 NTD



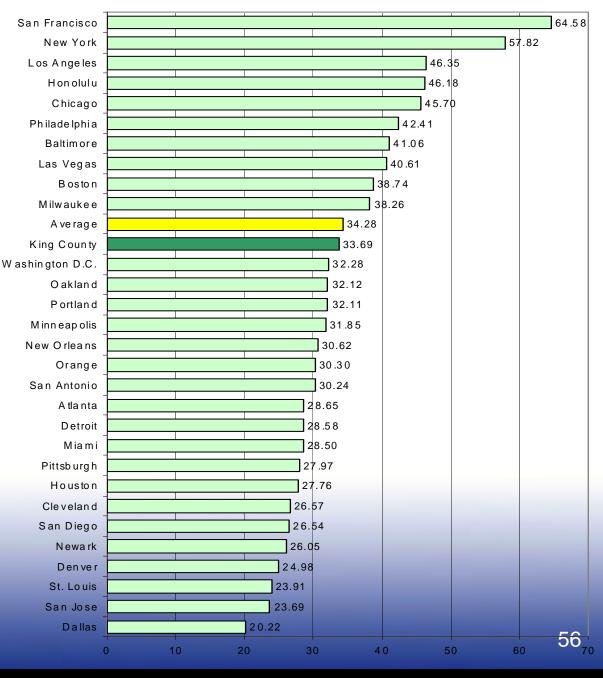
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Transit Productivity

Boardings per Platform Hour

Motorbus & Trolley Bus, 2008 NTD

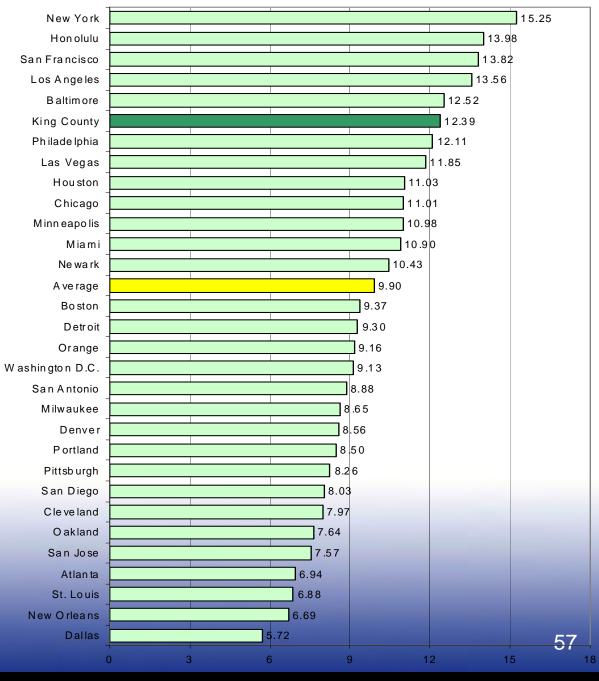




Transit Productivity

Passenger Miles per Platform Mile

Motorbus & Trolley Bus, 2008 NTD

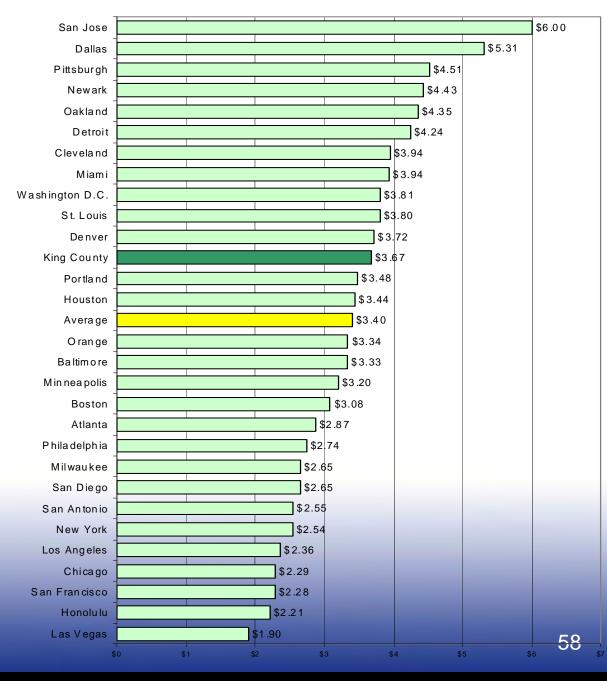




Transit Cost Effectiveness

Operating Cost per Boarding

Motorbus & Trolley Bus, 2008 NTD

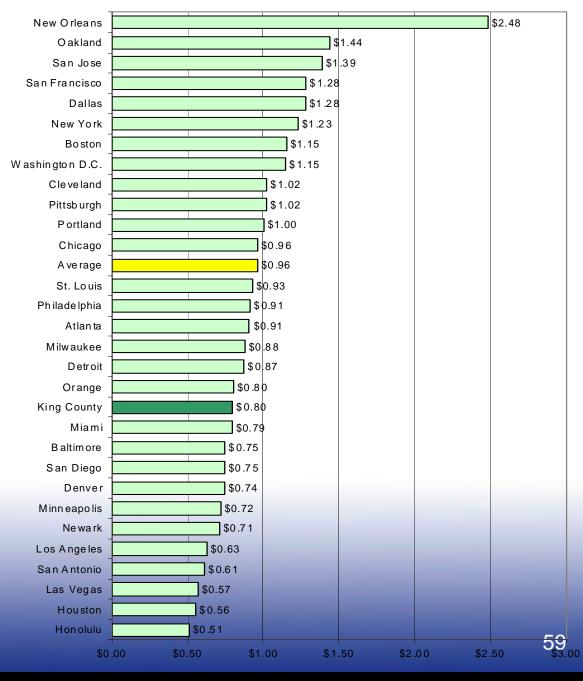




Transit Cost Effectiveness

Operating Cost per Passenger Mile

Motorbus & Trolley Bus, 2008 NTD

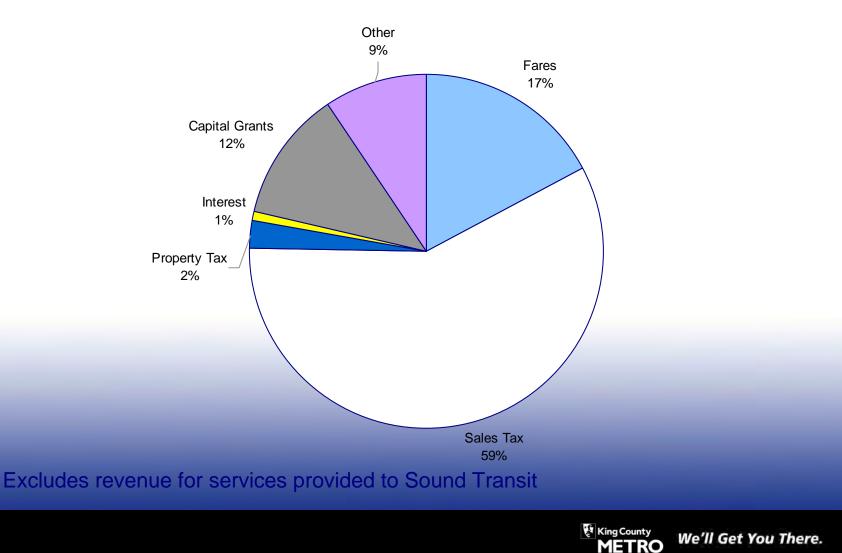




Financial issues

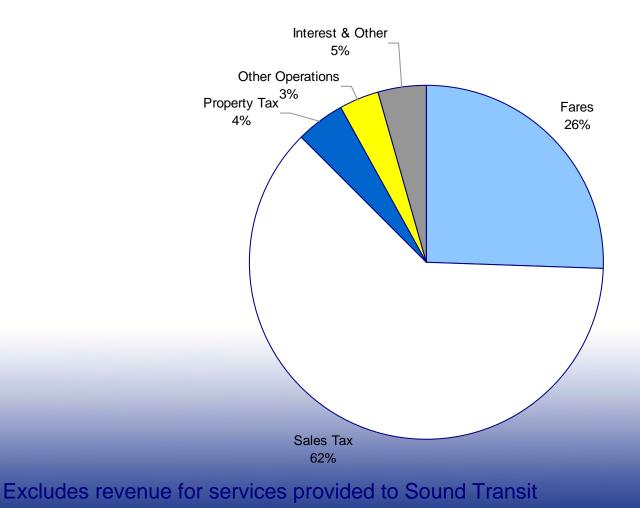


Transit Operating & Capital Program Revenues: 2009-2015



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Transit Operating Program Revenues: 2010/2011 = \$968.1million

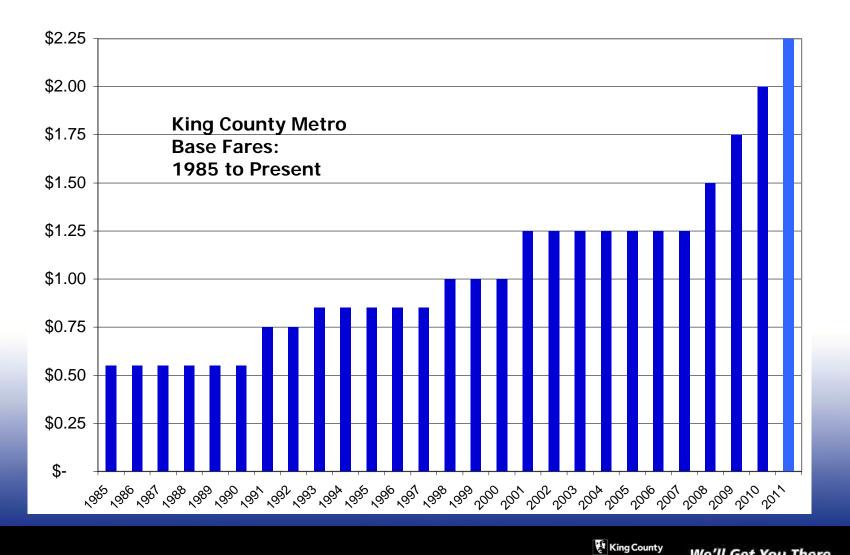


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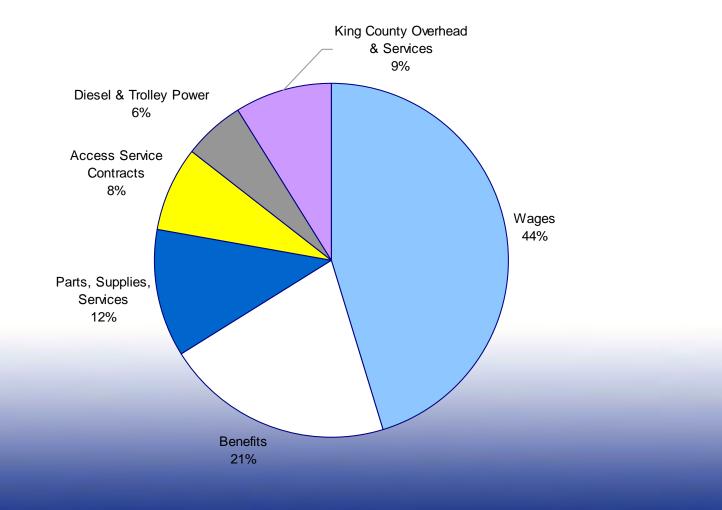
Metro One-zone Adult Fare



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Transit Operating Program Projected Expense: 2010/2011 = \$1,208.9 million

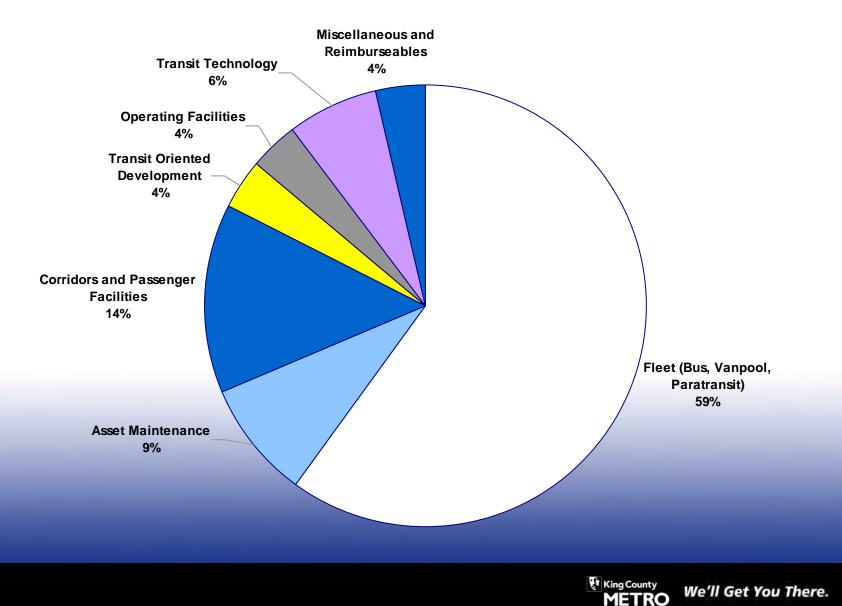


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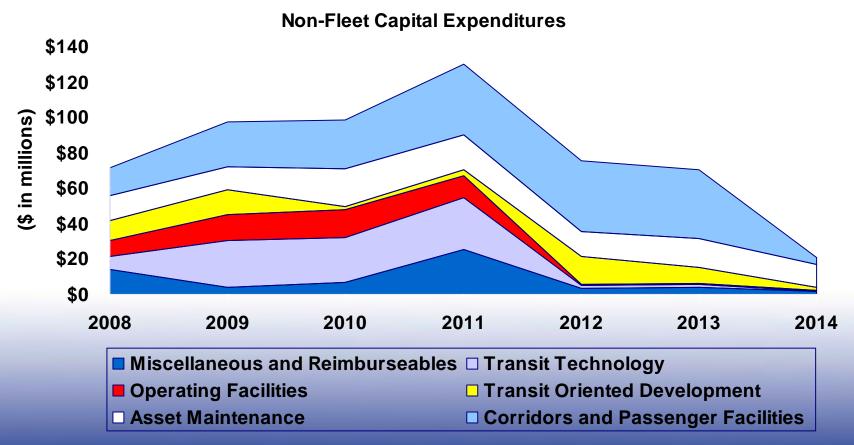
64

Capital Program 2009-2015: Total \$1.28 billion



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Most of Metro's non-fleet capital program is scheduled to be completed by 2012 (RapidRide by 2014)

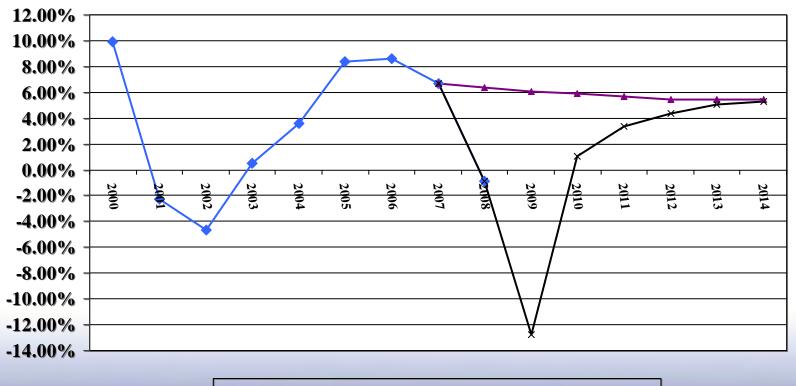


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Sales Tax Year-to-Year Growth Rates



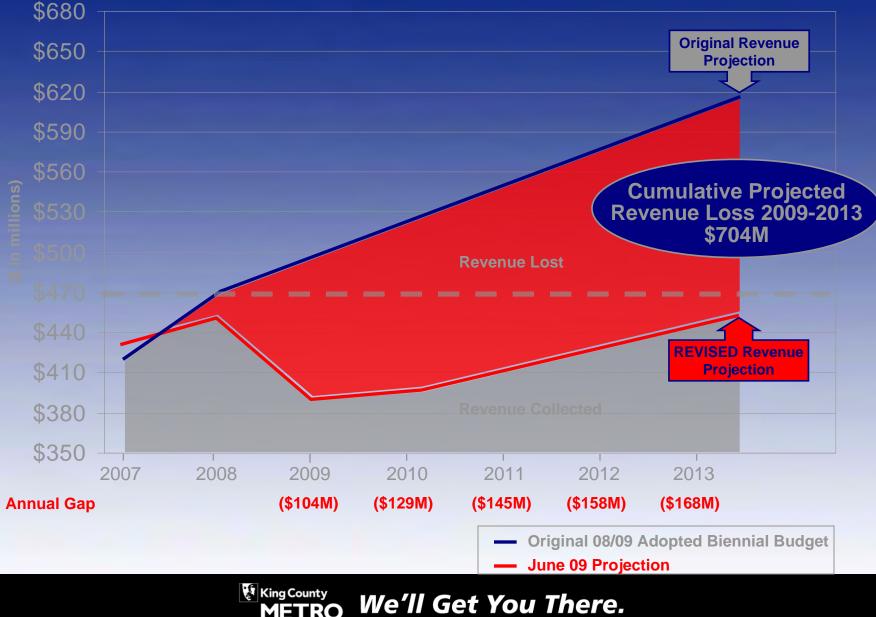
→ Actual → Original 08/09 Adopted → Adopted 2010/2011

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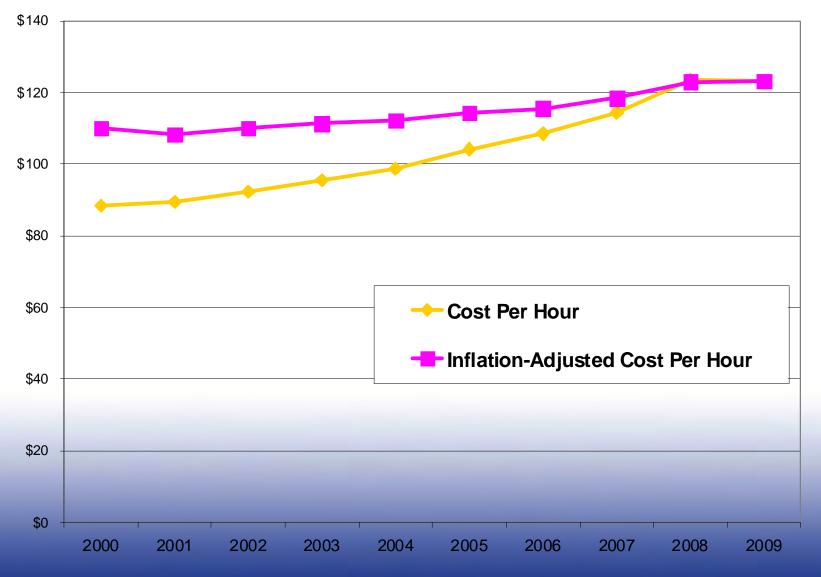
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King County Metro - Sales Tax Shortfall



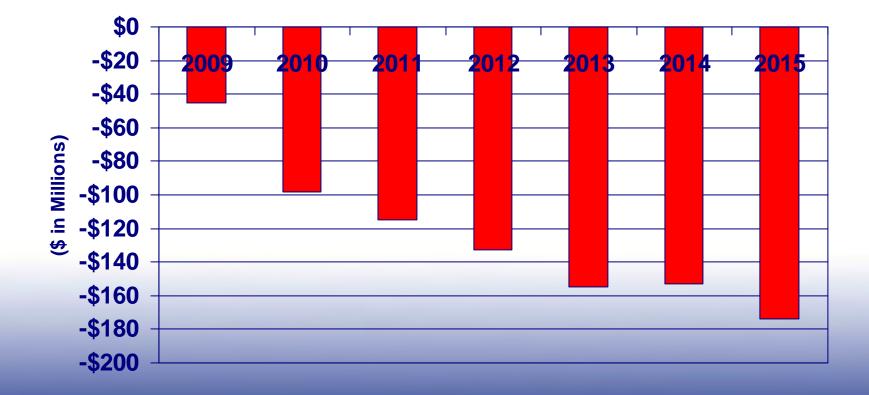
Metro Transit Cost Per Hour



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Revenue/expense gap addressed in the 2010/2011 budget.



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Objectives of the 2010-2011 Transit Budget

- Long term system sustainability
- Preserve as much existing service as possible
- Position for rebound if/when economic conditions allow or new revenue sources



Building Blocks of Transit Costs

Basic service

operate a safe vehicle with a trained driver, reliable under normal conditions, comply with all laws and regulations (88%)

Complementary programs

additional activities performed to support mission and goals (6%)

Service quality

activities that meet and enhance customer and public expectations (6%)



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2009 Performance Audit

Topics included:

- 1) Bus Service Planning/Scheduling
- 2) Technology and Information Management
- 3) Human Resource Management (Vehicle Maintenance, Operations, Police)
- 4) Financial and Capital Planning
- 5) Paratransit
- 6) Fare Strategies
- 7) Trolley Replacement



Examples of Recommendations

Bus Service Planning/Scheduling

Improved training for schedulers Improve accuracy of model calibration Global system analysis Reduce layover time in schedules

Technology and Information Management

Improvements to customer information systems and website, particularly for emergencies

Human Resource Management

Improved operator staffing model Longer window for PM's and inspections Establish additional standards for maintenance tasks





Examples of Recommendations (con't)

Financial and Capital Planning

Improve financial planning and life-cycle costing models Reduce reserves in Revenue Fleet Replacement Fund

Paratransit

Establish strategic plan to manage service costs Develop staffing model

Fare Strategies

Establish fare goals and identify sources for increased fare revenue

Trolley Replacement

Conduct comprehensive review of trolley replacement options

Key Elements of the 2010-2011 Budget

- 1. **Defer bus service expansion:** Suspended remaining Transit Now improvements except Rapid Ride and already-approved partnerships.
- 2. Capital program cuts:_Reprioritized capital program and reduced number of buses purchased
- **3.** Non-service related cuts: reduced supplemental programs and service quality expense by 10%
- 4. New revenue/Property tax swap: 6.5 cents for transit; 1 cent for 520 Urban Partnership; 5.5 cents for other transit (including new Rapid Ride "F" Line)
- **5. Operating reserves:** temporary reduction for 4 years
- 6. Increase fares: additional general fare increase in 2011
- 7. Fleet replacement reserves: \$100 million over four years
- 8. Audit efficiencies: Assumed 125,000 hours of scheduling efficiencies during the biennium
- **9. Bus service:** 75,000 hours of service reductions during the biennium. Additional cuts required by 2013

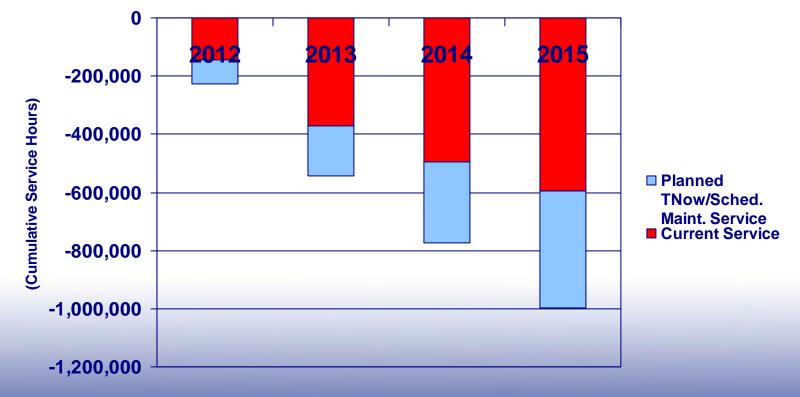
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The program is now balanced, but a series of service reductions and deferrals will be required over the next 5 years



Reduction also in fleet and other infrastructure requirements

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