Bicycle Transportation in Portland,

OR: A Tale of <u>Three</u> Cities

9

Global Green; October 21, 2008 Roger Geller, Bicycle Coordinator Portland, OR



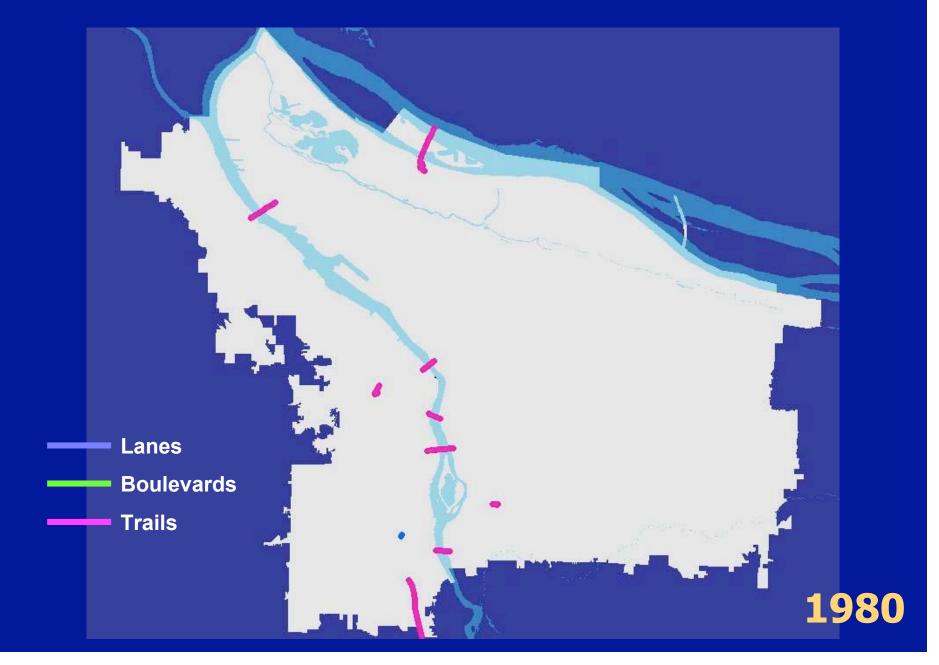
Initial Building Blocks of Portland's Success in Bicycle Transportation

- "Complete Streets" Policies/Laws
 - "Bicycle Bill" (1974): all streets to have appropriate bicycle/pedestrian facilities
 - State Transportation Planning Rule (TPR)
 - Regional Policies
 - Local Policies
- Dedicated Funding

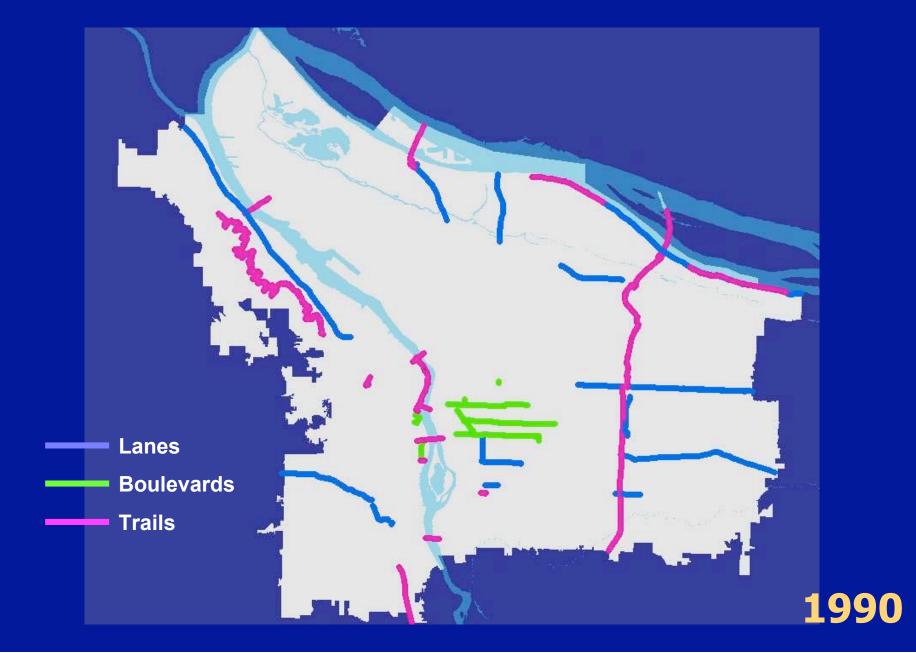
 Floor of 1% of GTR

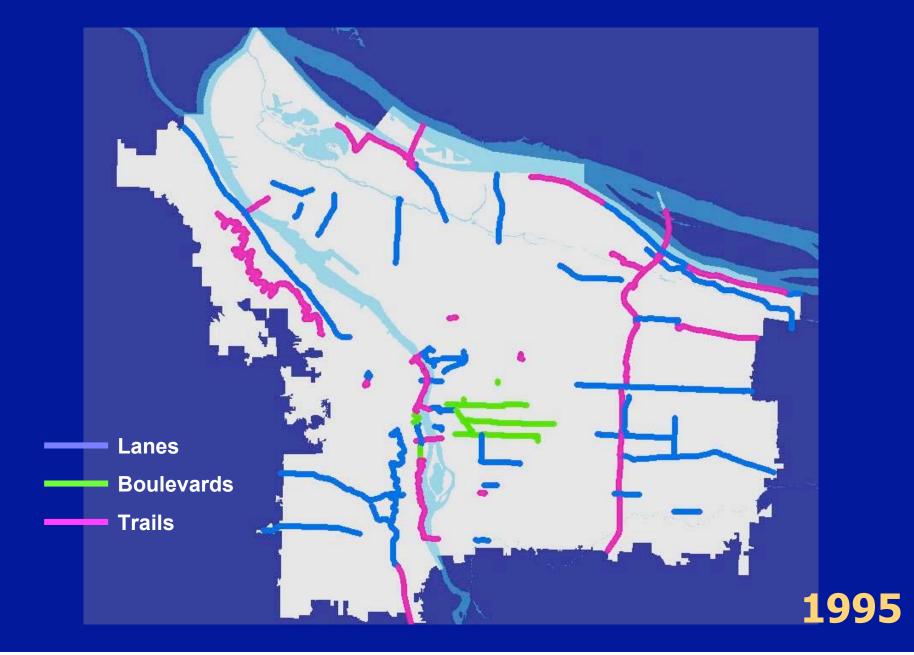
City No. 1

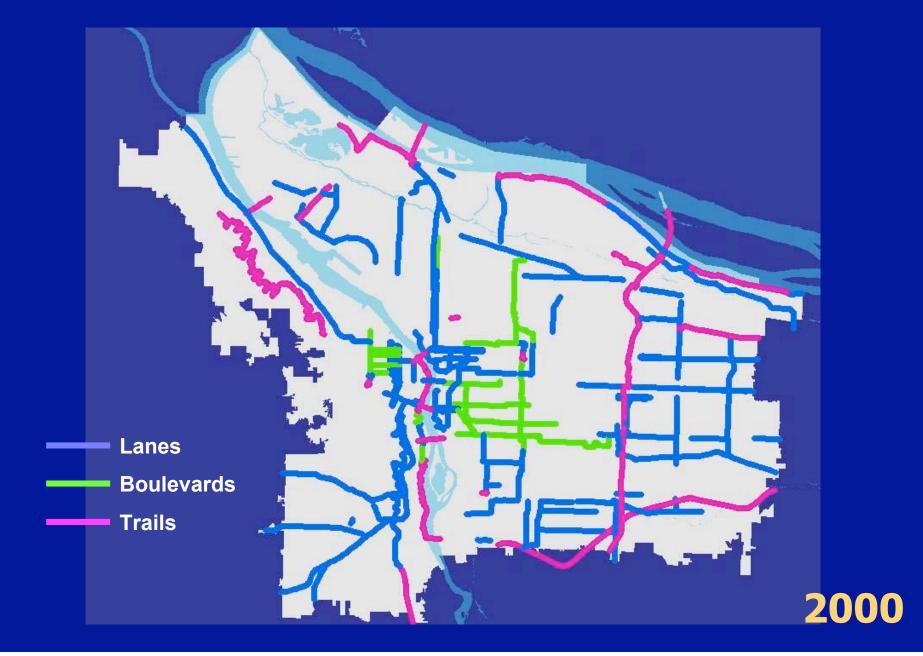
where we've done a lot

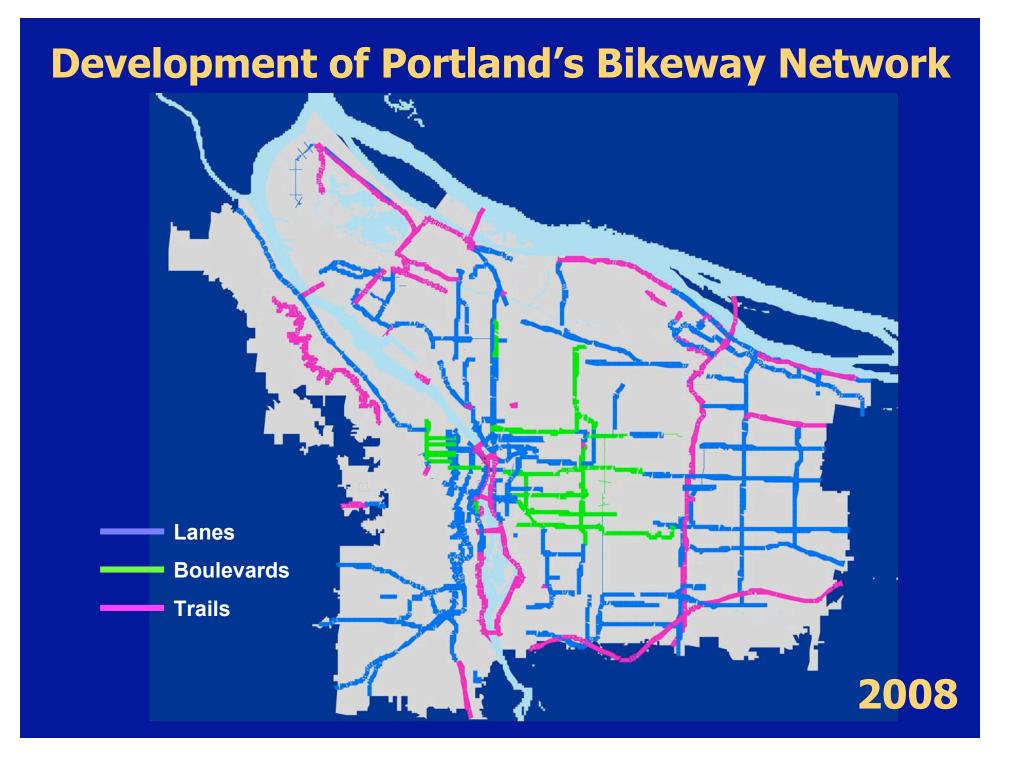






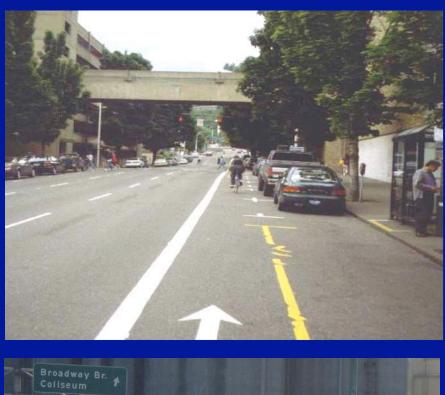




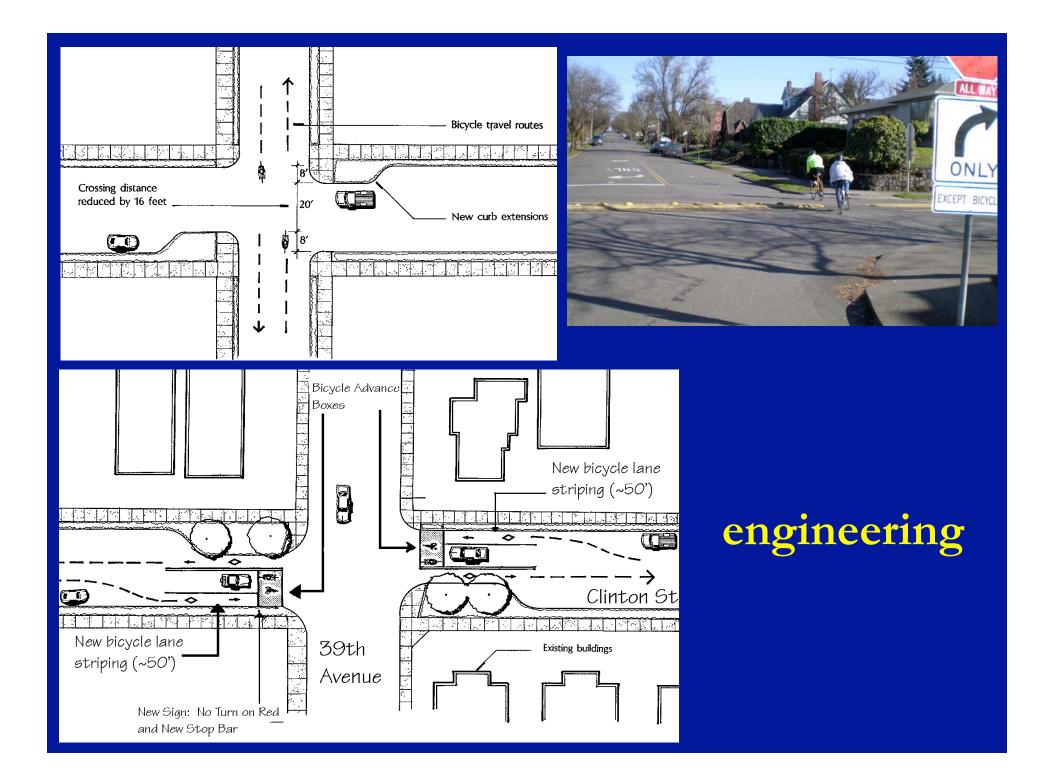






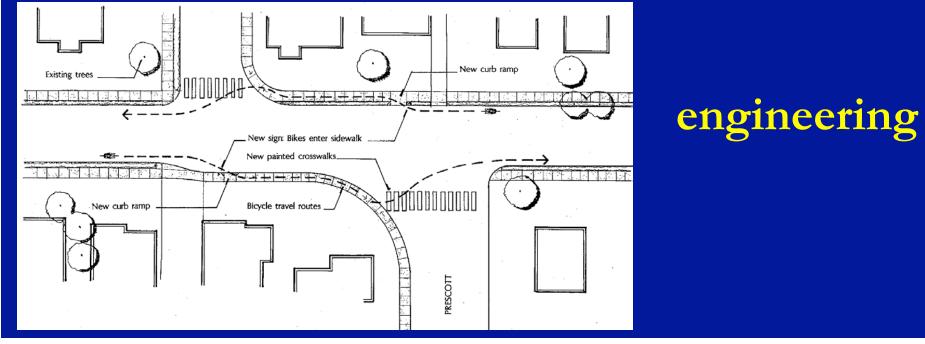


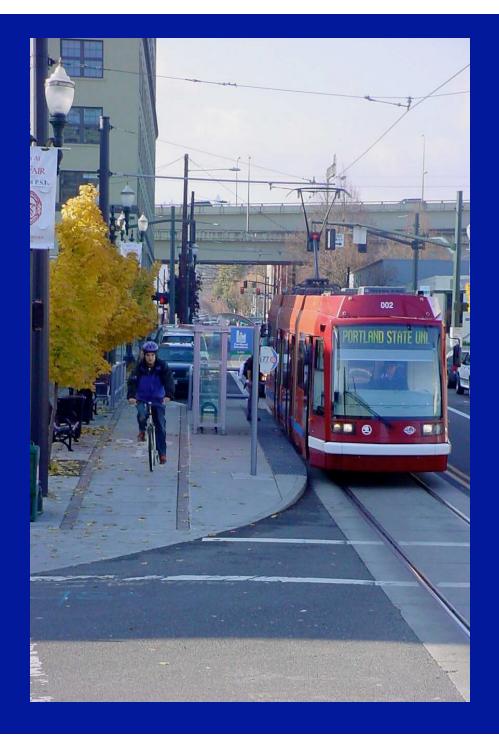




Include big bike box slide







manage transit -bike conflicts (streetcar platform bike lane)









exclusive bike phase (scramble signal)



exclusive bike phase (eliminating right turn on red)





exclusive bike phase (HAWK signal)

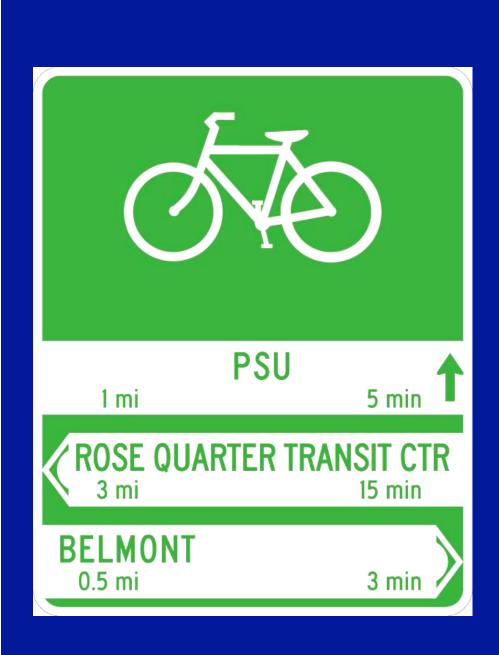
























on street bike parking (corrals)





Encouragement

- SmartTrips
 - 20,000 households per year since 2003
 - Individualized marketing
 - 3 contacts per hhold
 - 10 contacts per interested hhold
 - 9% reduction in single-occupancy auto use
- Bicycle Commute Challenge
 - 888 participating businesses
 - 9,700 individuals
- 2,100 Annual Rides

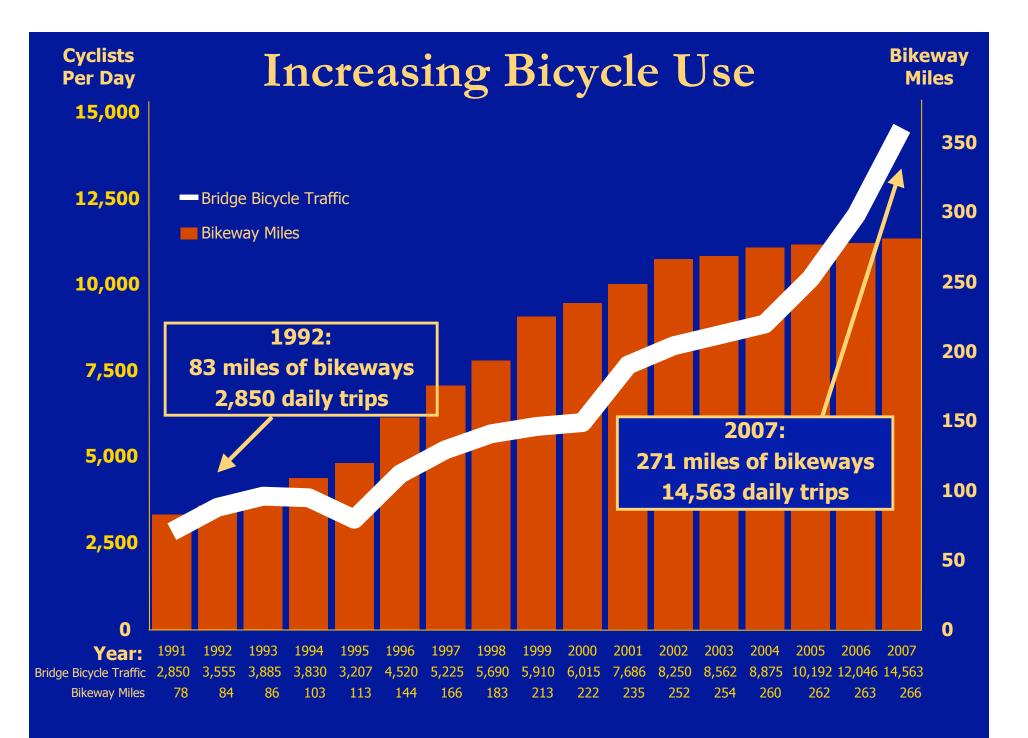
Education

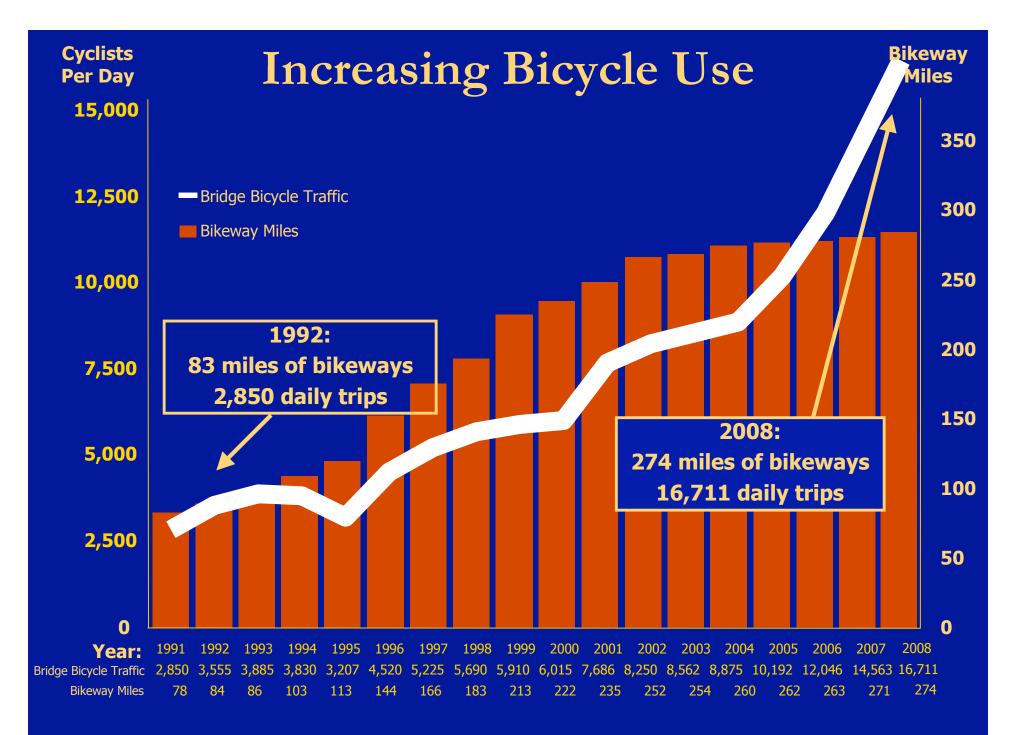
- Safer Routes to School
 - training and classwork in 25 schools
- "Options Mobile" deployed at more than 70 events annually
- Visibility Campaigns

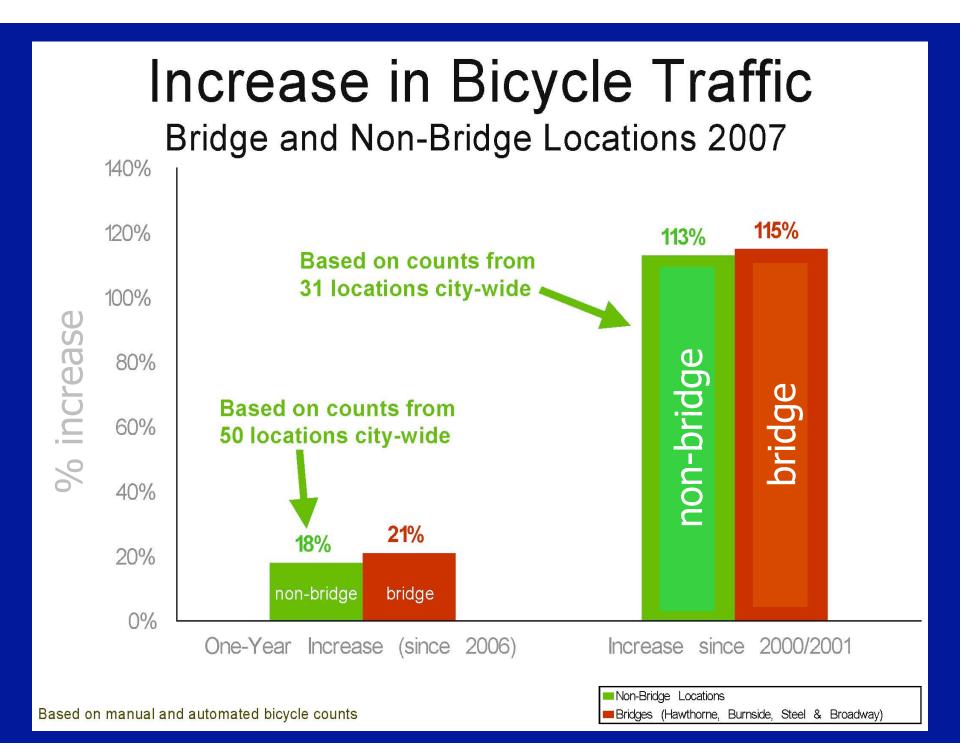
 "Get Lit"
 "See and Be Seen"

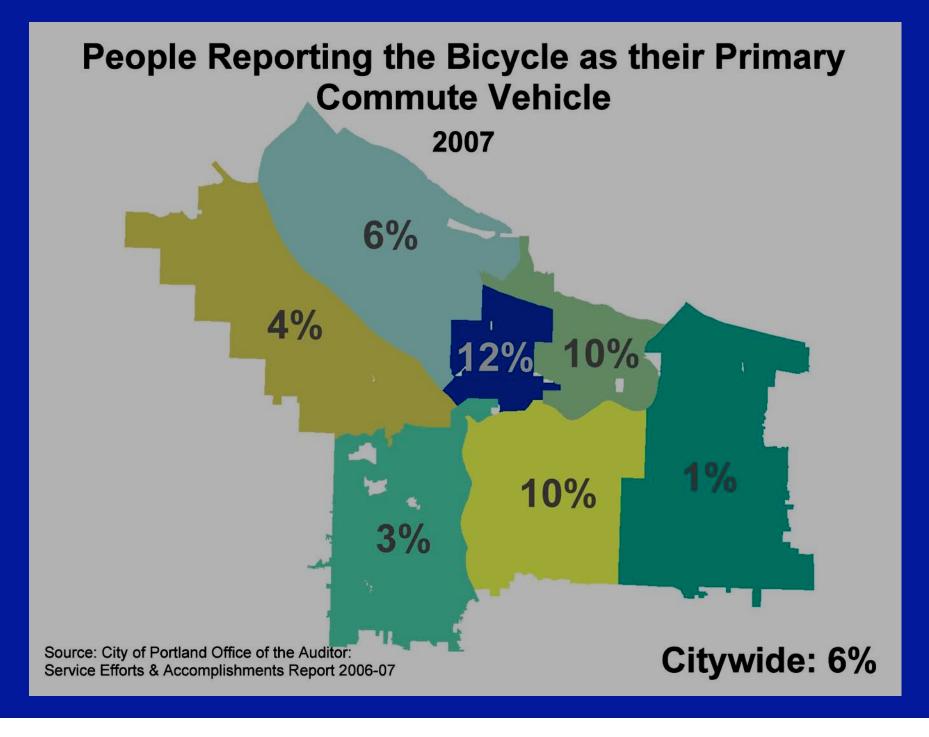


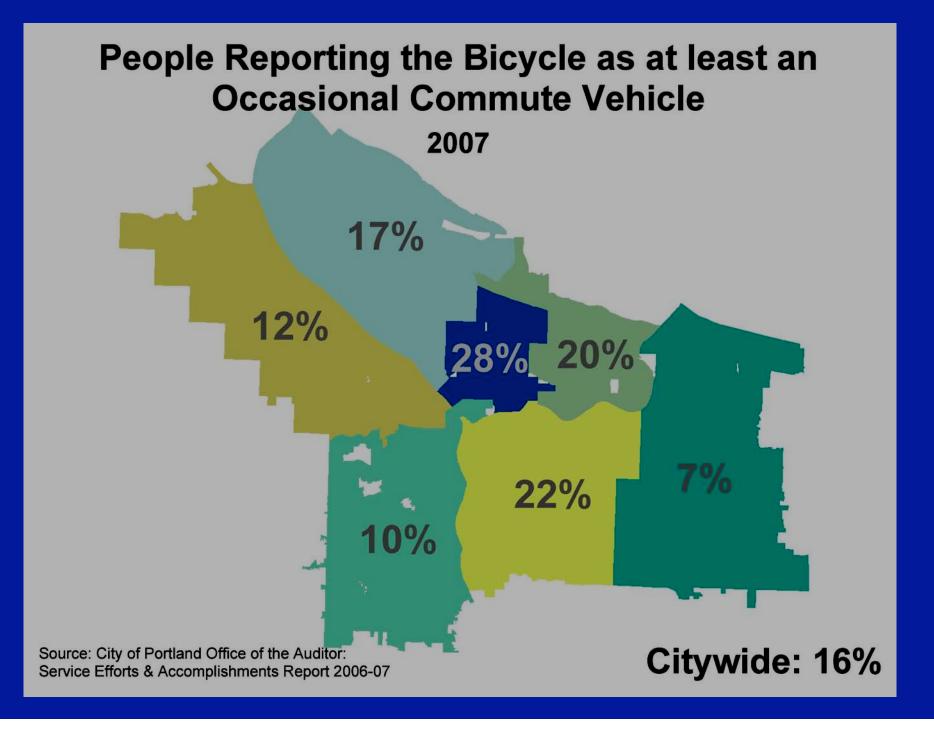
covered bike parking (bike oasis)

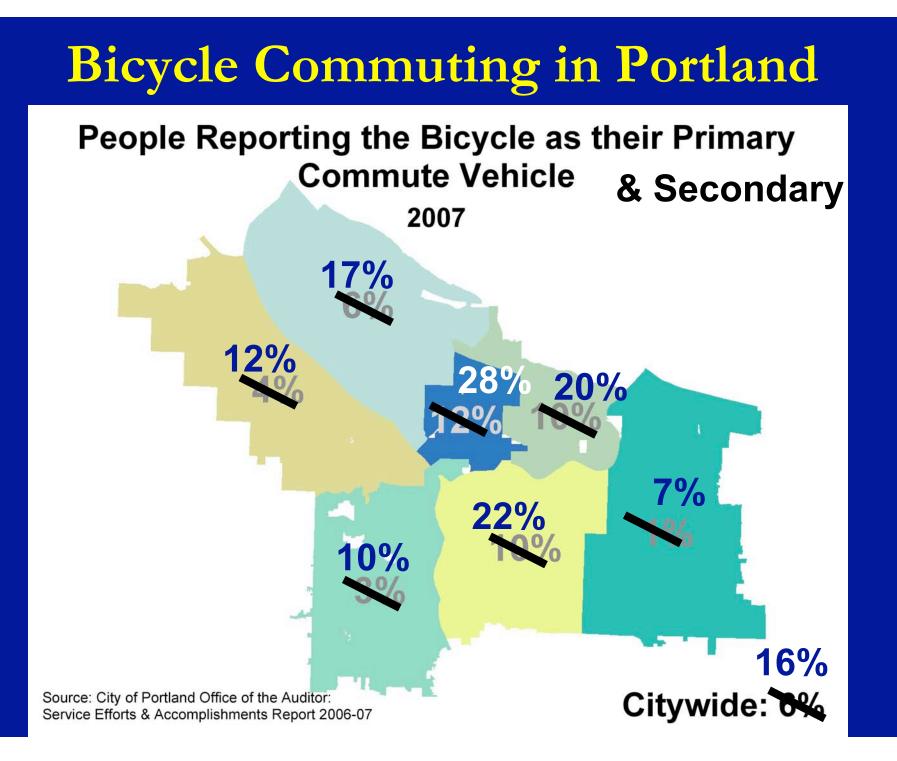




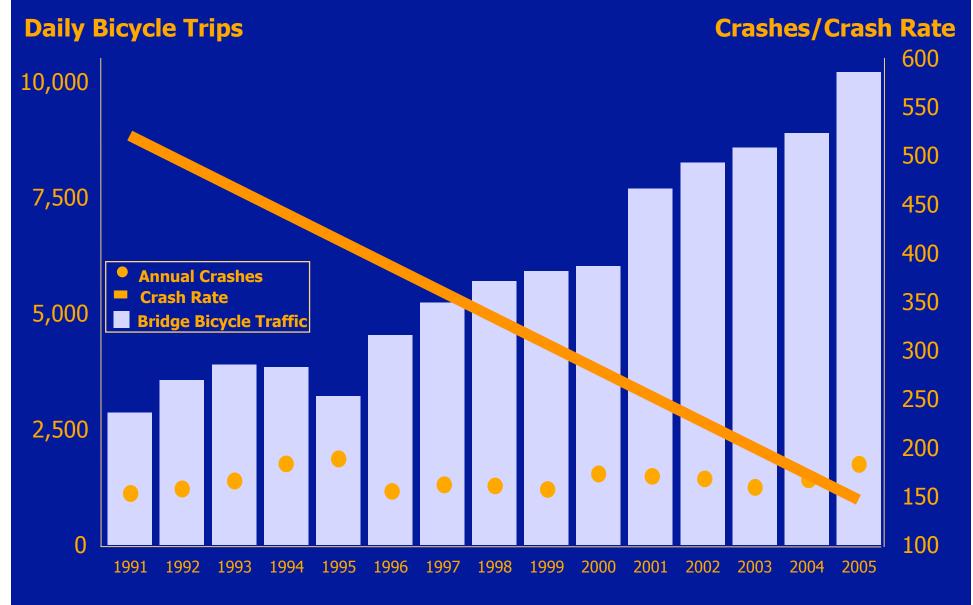








Decreasing Crash Rate



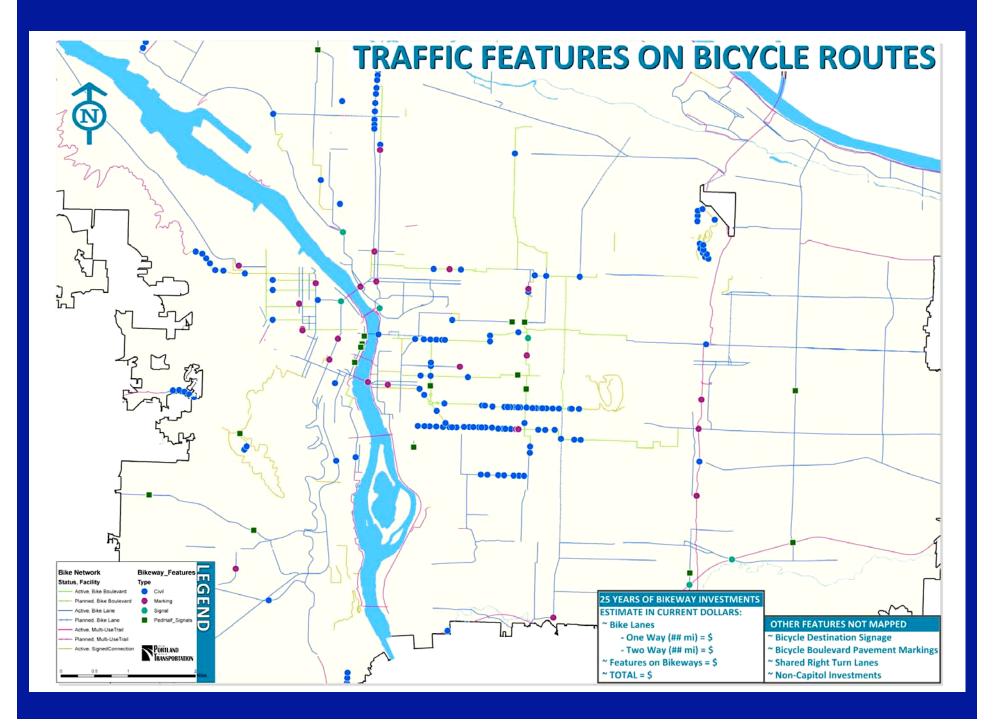
Year

explosion in bike culture & commerce

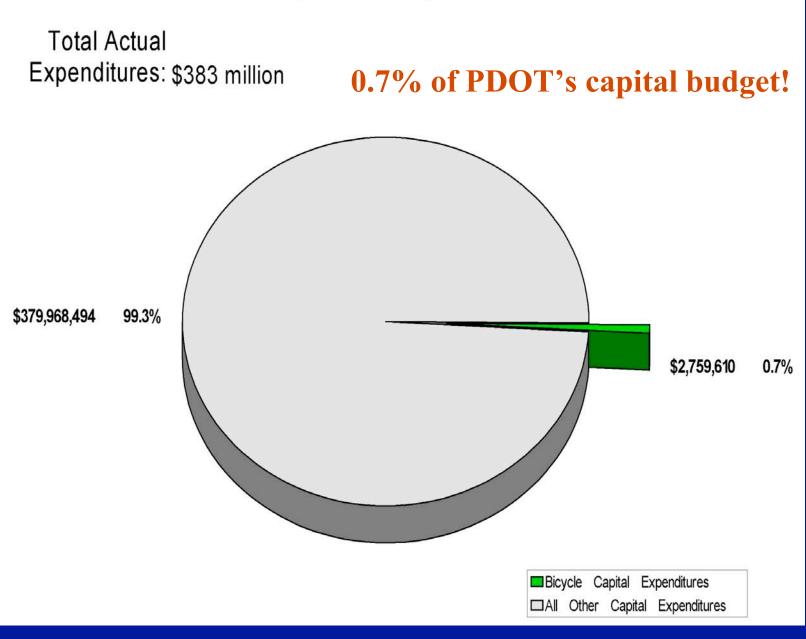
- breakfast on the bridges
- bike summer
- mini bike winter
- midnight mystery ride
- zoobombers
- move by bike
- bikeportland.org
- \$100 million local industry
- bike fashion
- pride in place: Portland as "bike city"
- politics

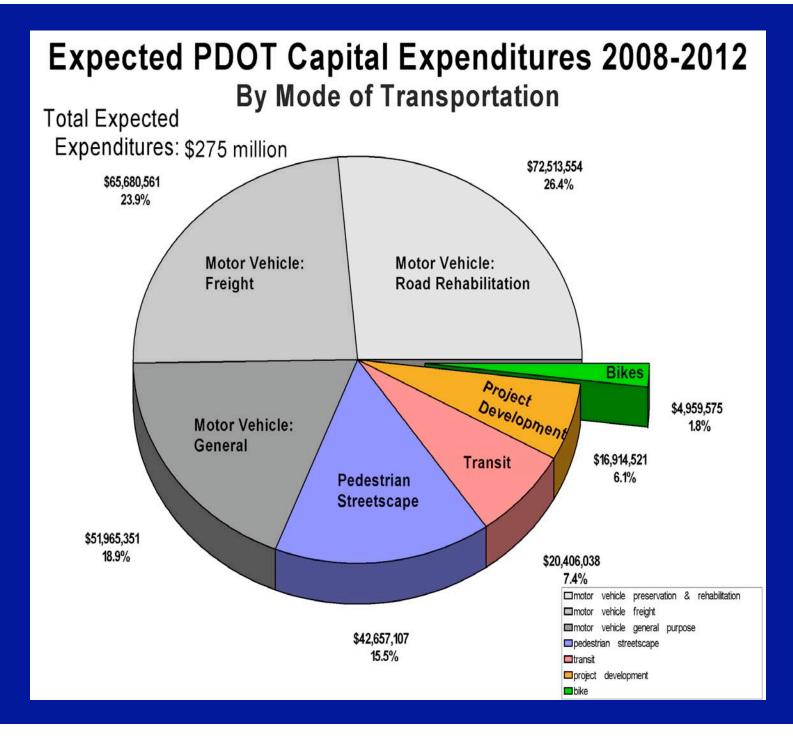
City No. 2

where we've invested so little

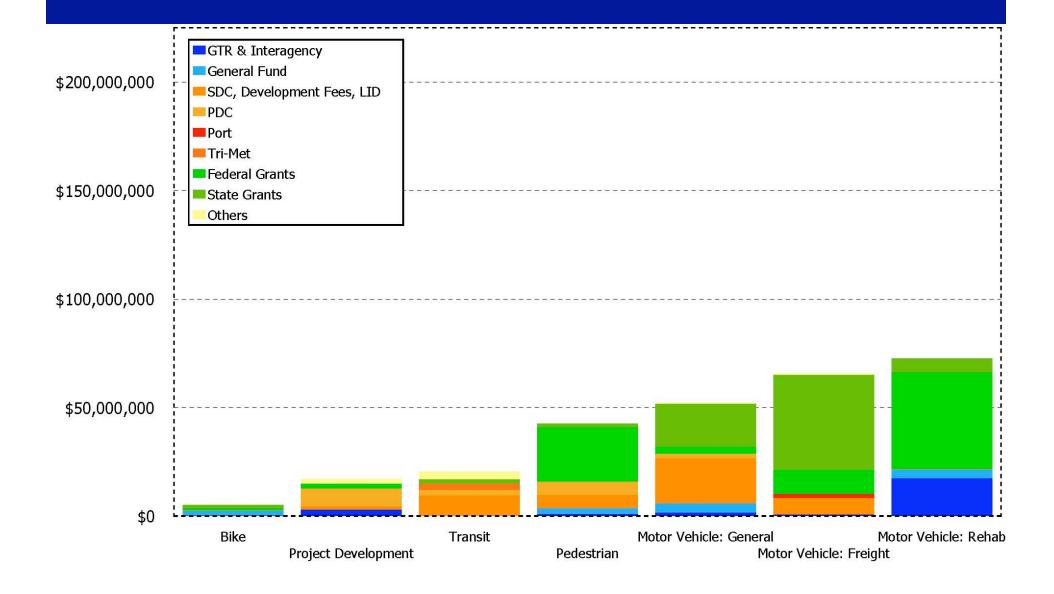


Actual PDOT Capital Expenditures 2000-2007

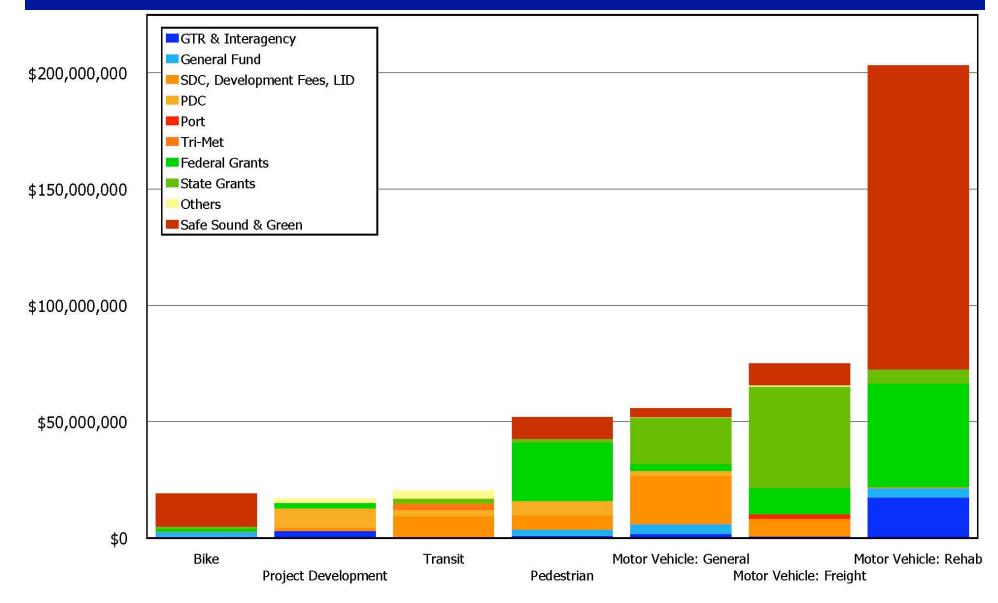




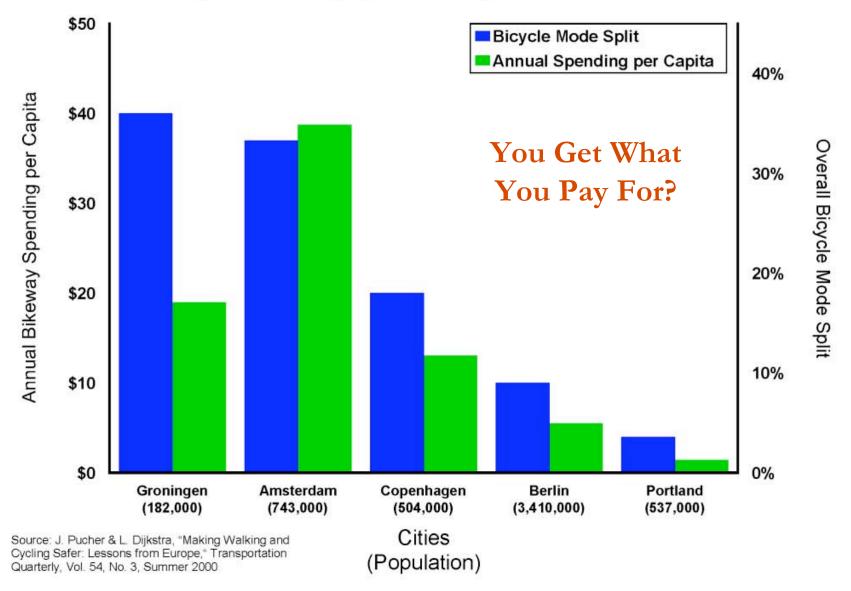
PDOT's Proposed Capital Funding 2008-2012 (Before Safe, Sound & Green)



PDOT's Proposed Capital Funding 2008-2012 (With Safe, Sound & Green)



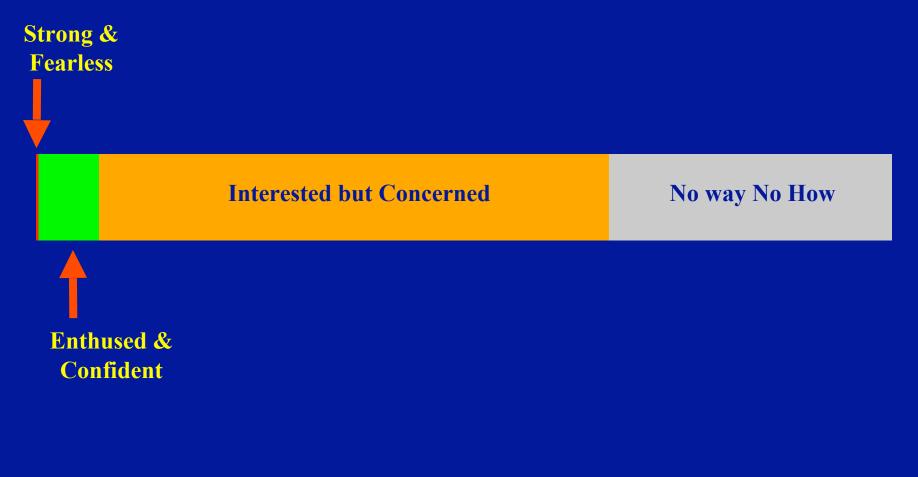
Annual Spending per Capita and Mode Split



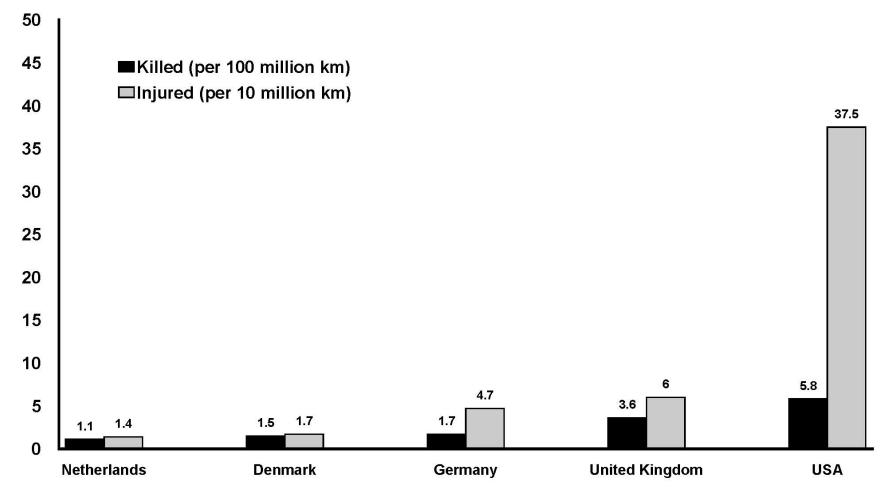
City No. 3

the city we want

4 Types of Transportation Cyclists



Cyclist Injury & Fatality Rates per distance cycled



Source: J. Pucher & R. Buehler "Making Cycling Irresistible: Lessons from the Netherlands, Denmark, and Germany" Accepted for publication in Transport Reviews, Vol 28, No. 4, July 2008

4 Types of Transportation Cyclists

- **Strong & Fearless** \bullet
- **Enthused & Confident** \mathbf{O}
- **Interested but Concerned** ~60% of population \mathbf{O}
- "No Way No How" \bullet

less than 1% of population

7-10% of population

~30% of population

No way No How

Strong & Fearless will ride regardless of facilities trip distance is not such an issue

Enthused & Confident comfortable in traffic with appropriate facilities prefer shorter trip distances

Interested but Concerned Not attracted by bicycle lanes Not comfortable in traffic Will ride in low-volume, lowspeed conditions (boulevards, off-street)

how do we attract "interested but concerned"?

- comfort
- safety
- attractiveness
- direct routes
- connected system











bicycle boulevards





Bicycle Boulevard

City Code 16.90.030. Bicycle Boulevard: A roadway with low vehicle traffic volumes where the movement of bicycles is given priority.

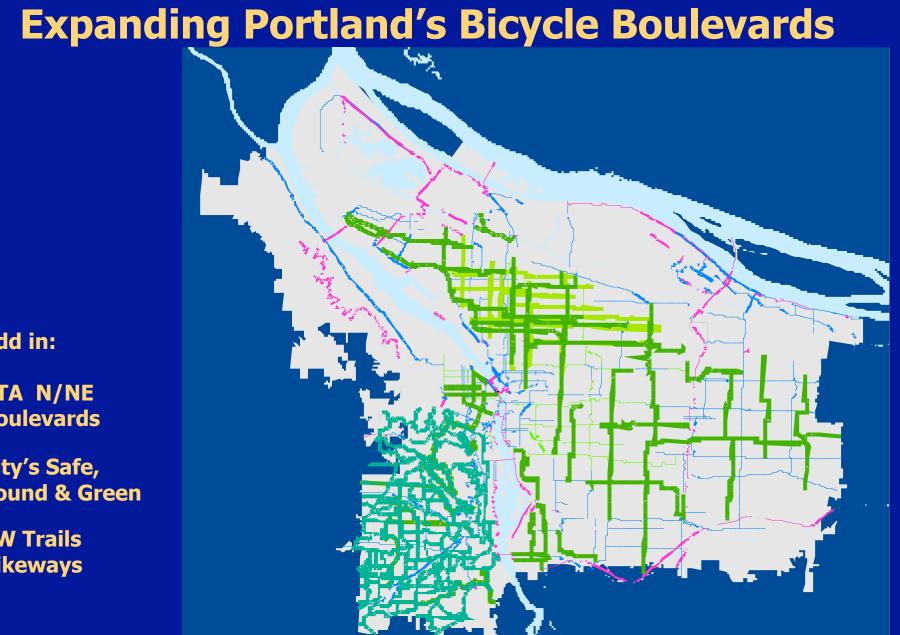


Bicycle Boulevard

To Make A Good Bicycle Boulevard You Need:

People To Feel Safe And Comfortable On Superb Facilities





Add in:

BTA N/NE Boulevards

City's Safe, Sound & Green

SW Trails Bikeways





attention & separation







separation



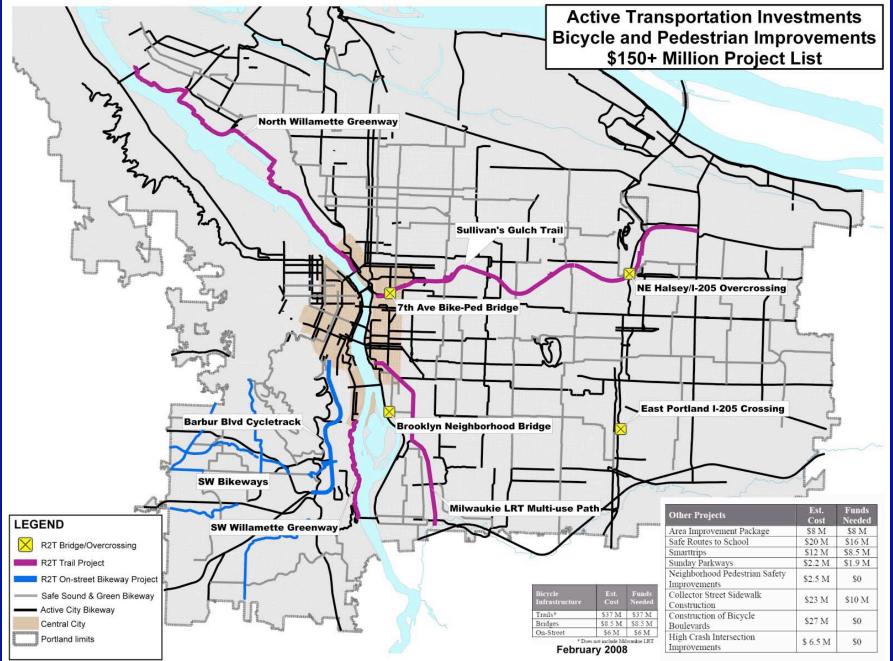


Portland's "\$150 Million List"

- NP Greenway Trail
- Sullivan's Gulch Trail
- Barbur Blvd Cycletrack
- Greenway Trail Modernization
- "Brooklyn Bridge"
- NE 7th Avenue Bridge
- Halsey Street Overcrossing
- SW Bikeways
- Milwaukie LRT Multi-Use Path
- East Portland I-205 Bike Bridge
- 120 Miles of Bicycle Boulevards

- Area Improvement Package
- Expansion of Smartrips Program
- Sunday Parkways
- Expand SR2S Program
- Neighborhood Pedestrian Safety
 Improvements
- Collector Street Sidewalk
 Construction
- High Crash Intersection Improvements

Portland's \$150 Million Plan



To Get to the City We Want

Policies

- prioritize the bicycle

• Funding

 building a system, providing education, encouraging bicycling costs money

Designs

- better designs to enhance comfort and safety
- designs that communicate transportation hierarchy

Numbers to Consider

0.04%

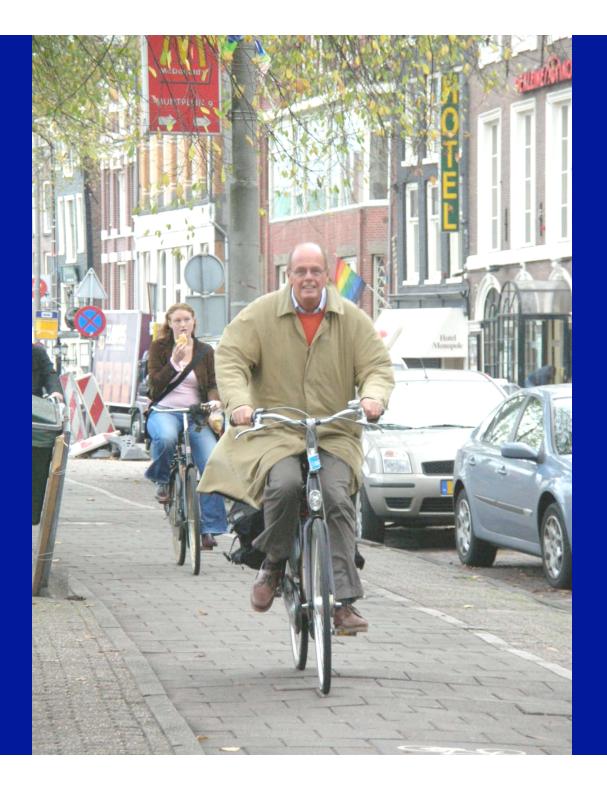
Percentage of state budget we'd need to spend \$18 per capita on bicycle facilities & programs in Oregon's urban areas

1.3% 1.3% Percentage of state transportation budget we'd need to spend \$18 per capita on bicycle facilities & programs in Oregon's urban areas

0.33%

Percentage of Portland's annual budget Portland would need to spend \$18 per capita on bicycle facilities & programs



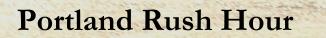












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