## Bicycle Transportation in Portland,

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

9

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



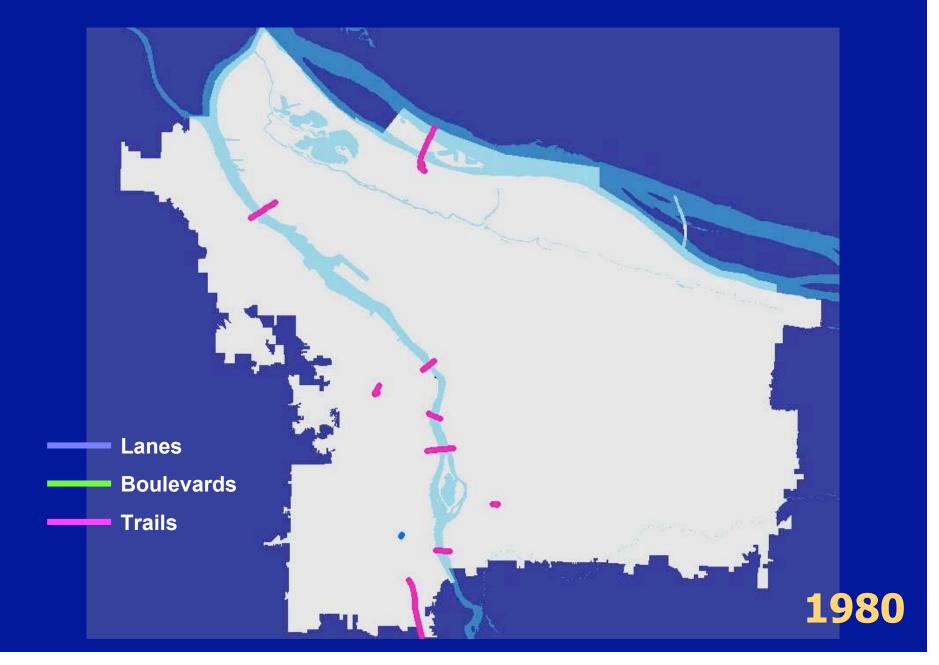
## Initial Building Blocks of Portland's Success in Bicycle Transportation

- "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

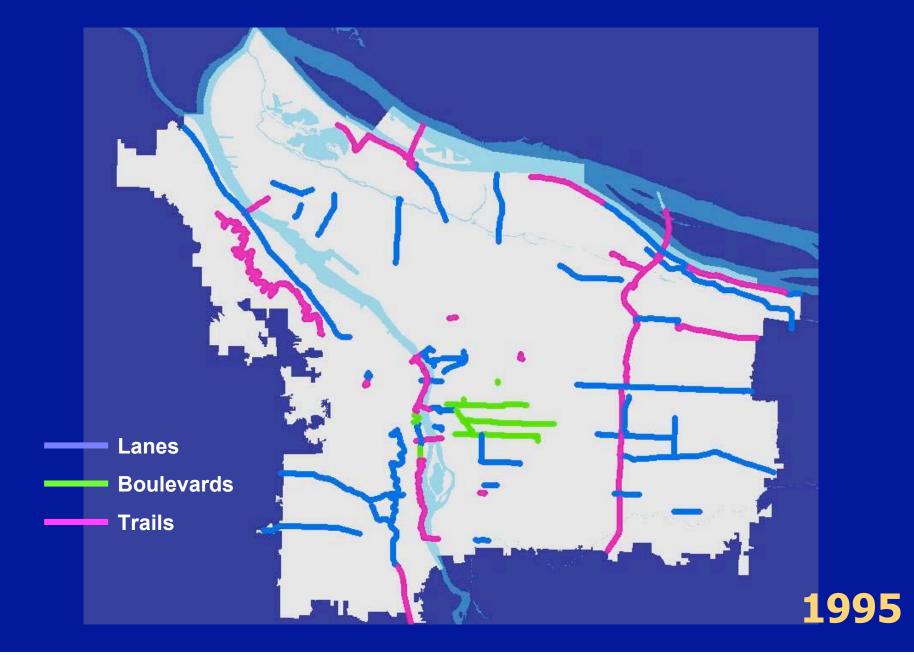
City No. 1

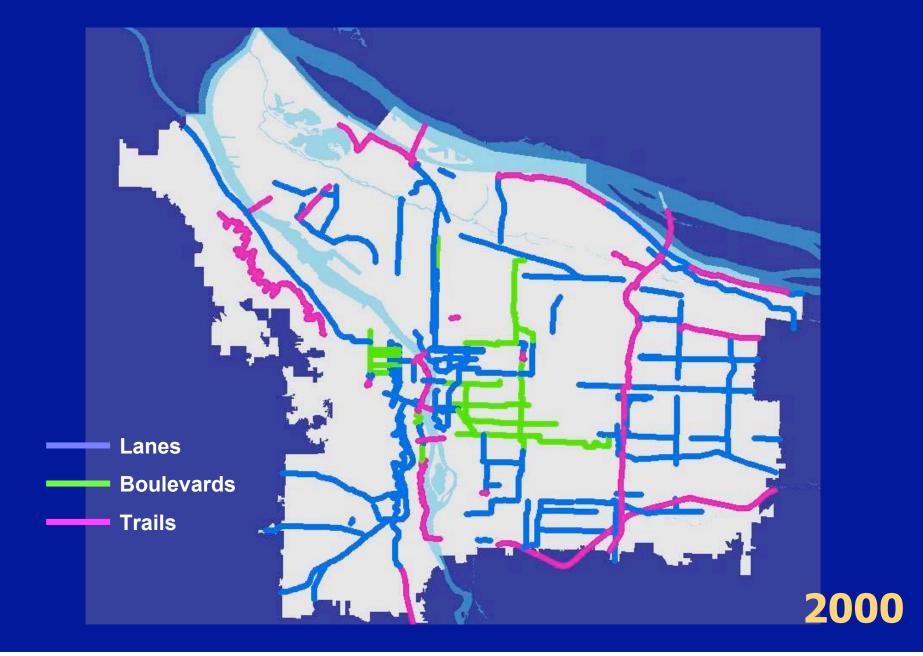
## where we've done a lot

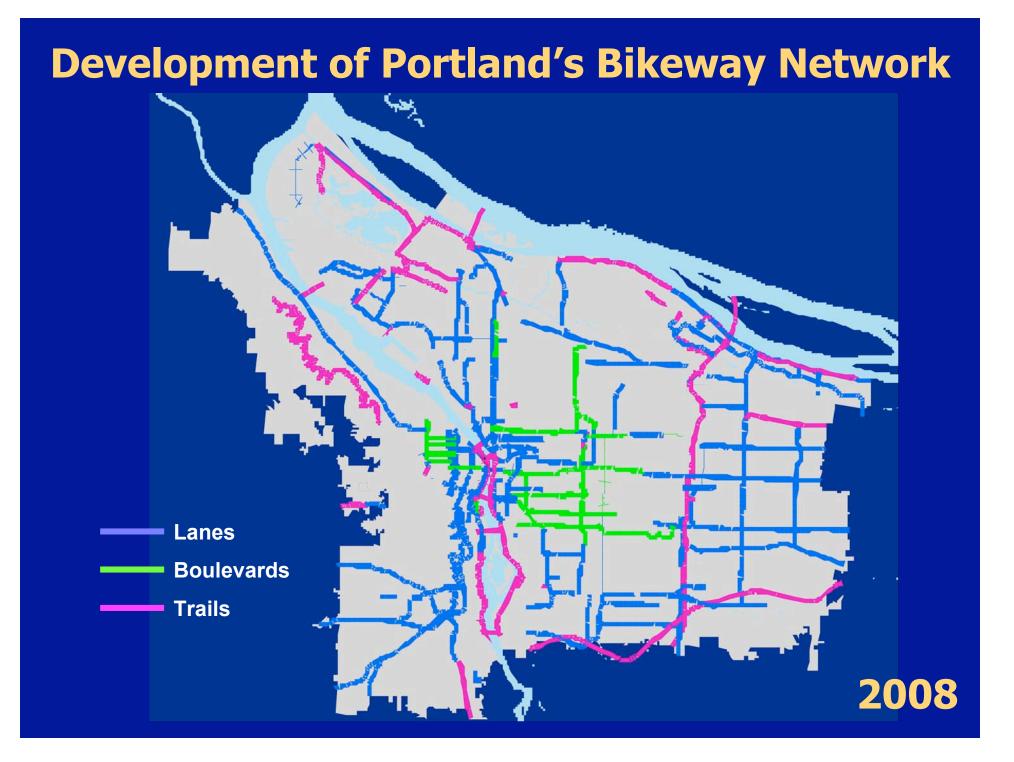






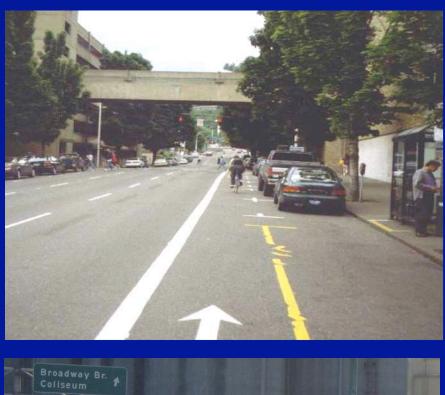




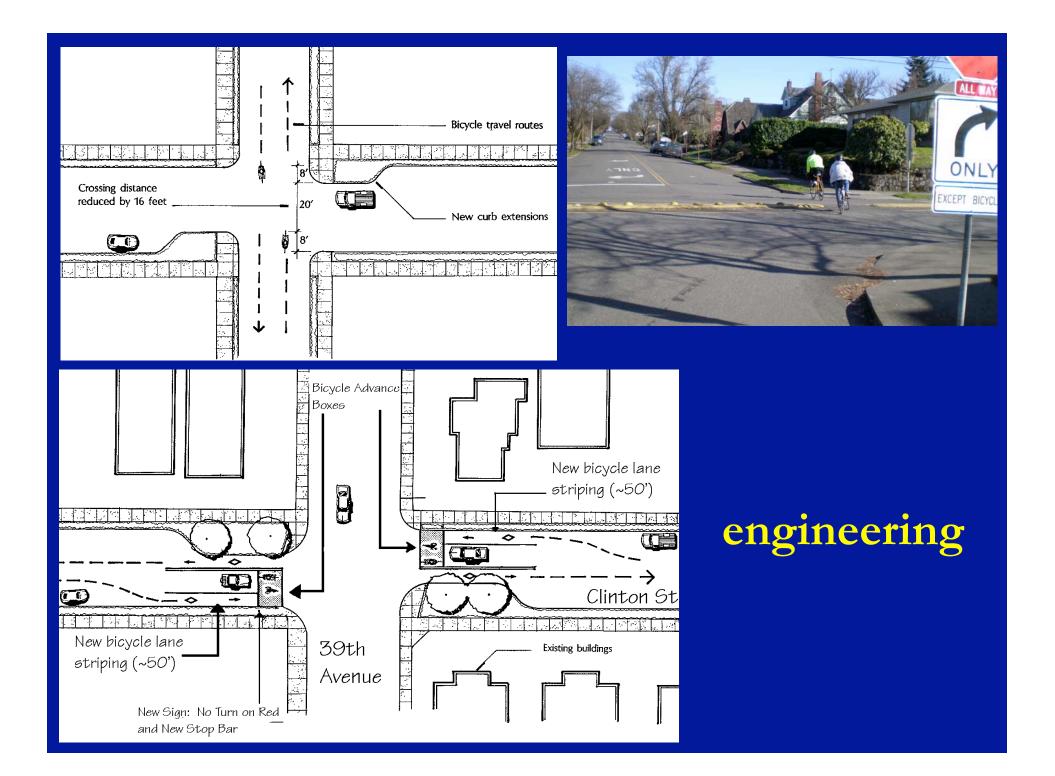






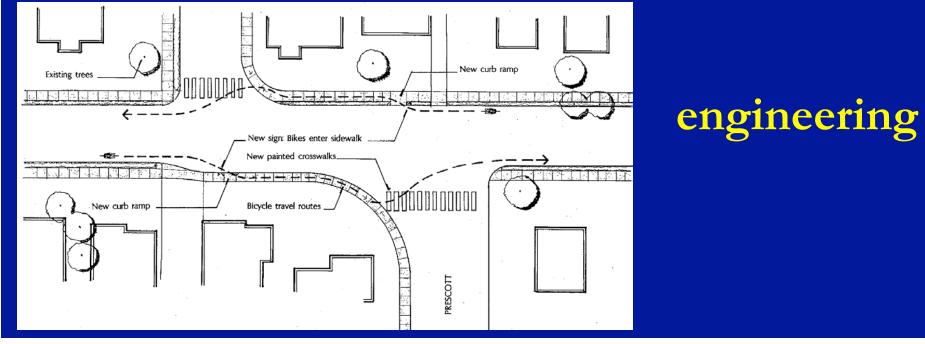


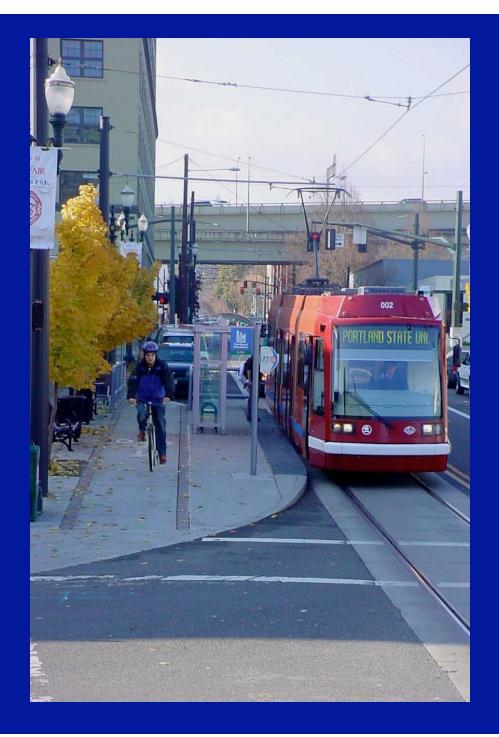




Include big bike box slide







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)

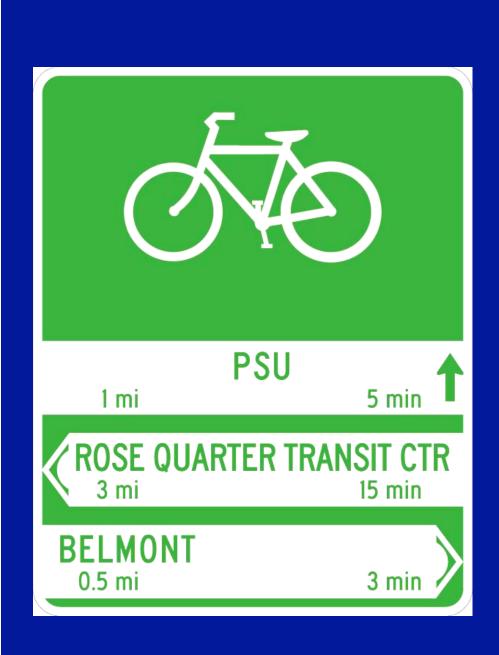
























## on street bike parking (corrals)





## 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

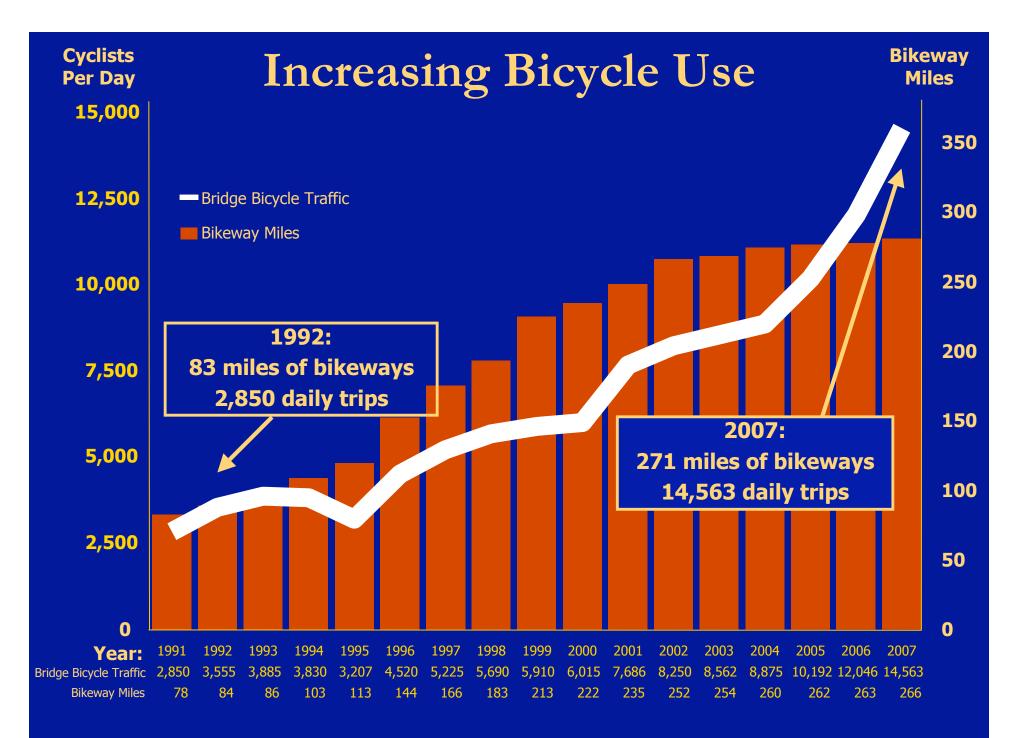
## Education

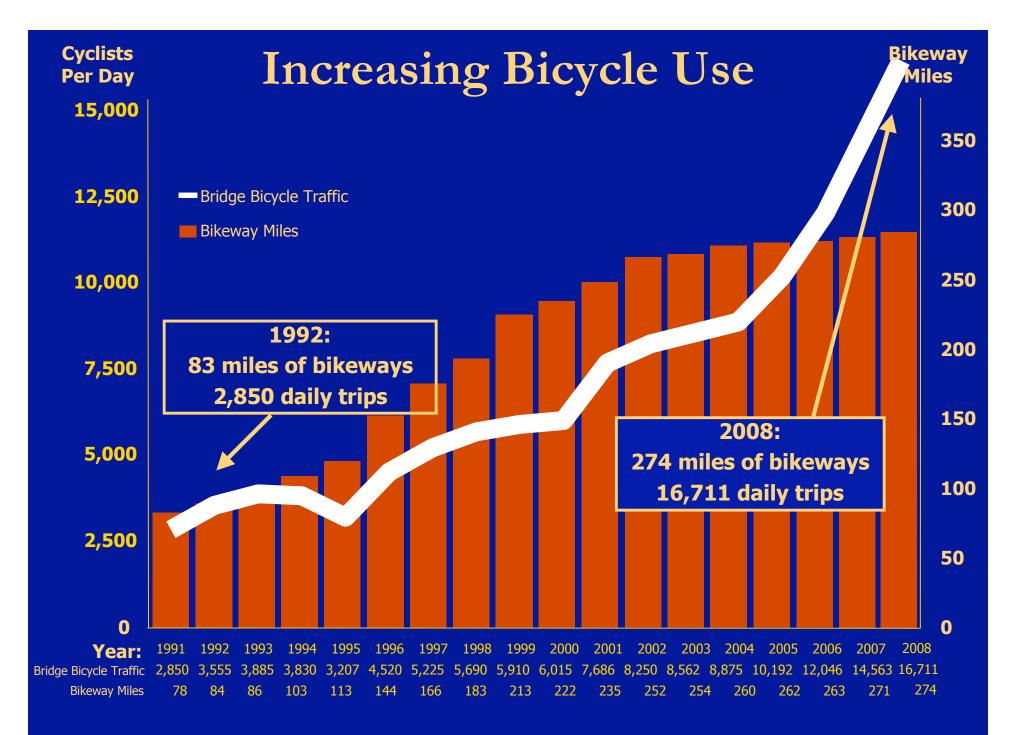
- Safer Routes to School
  - training and classwork in 25 schools
- "Options Mobile" deployed at more than 70 events annually
- Visibility Campaigns

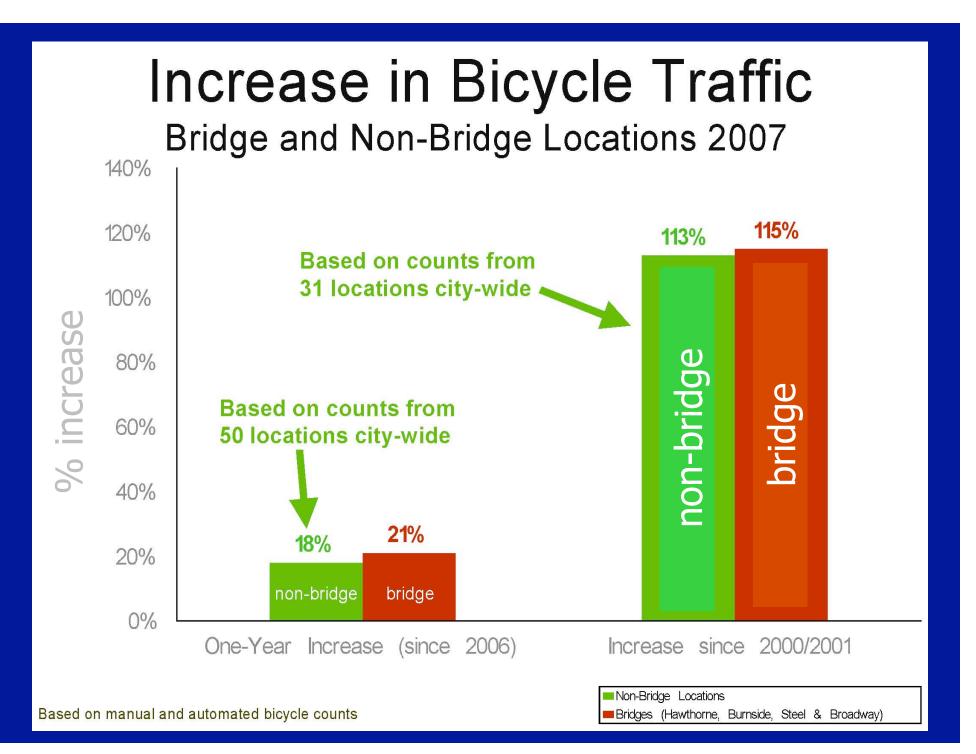
  "Get Lit"
  "See and Be Seen"

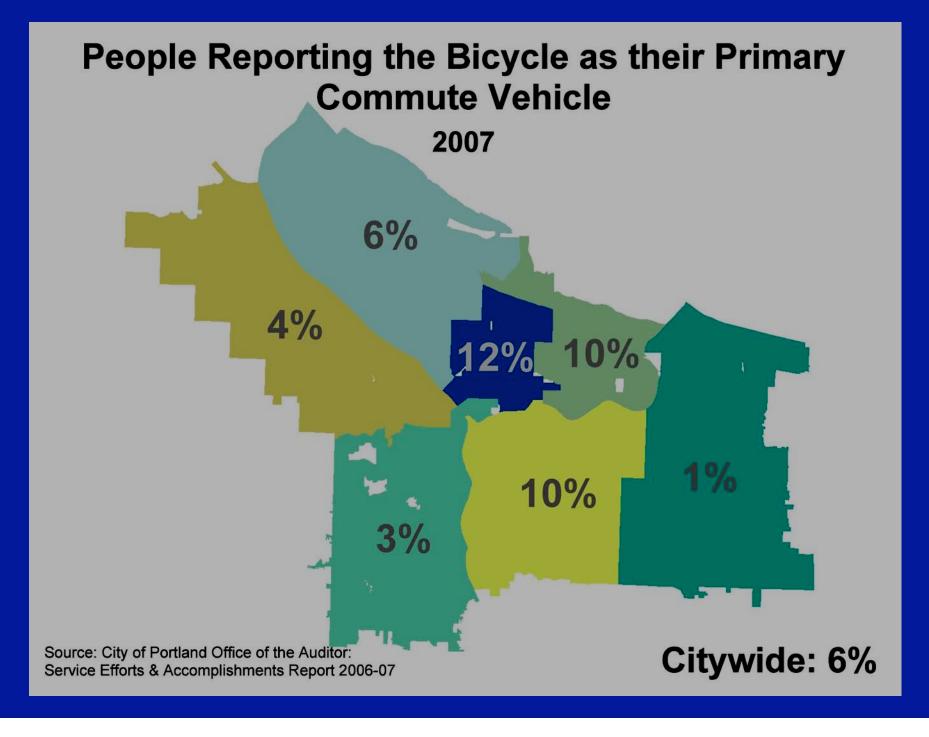


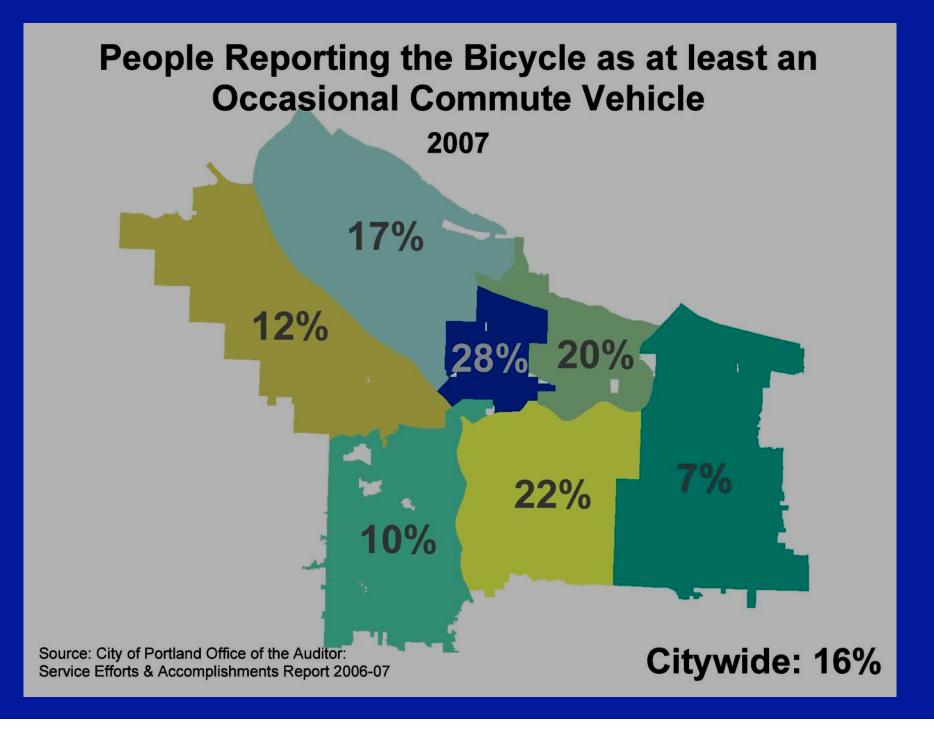
### covered bike parking (bike oasis)

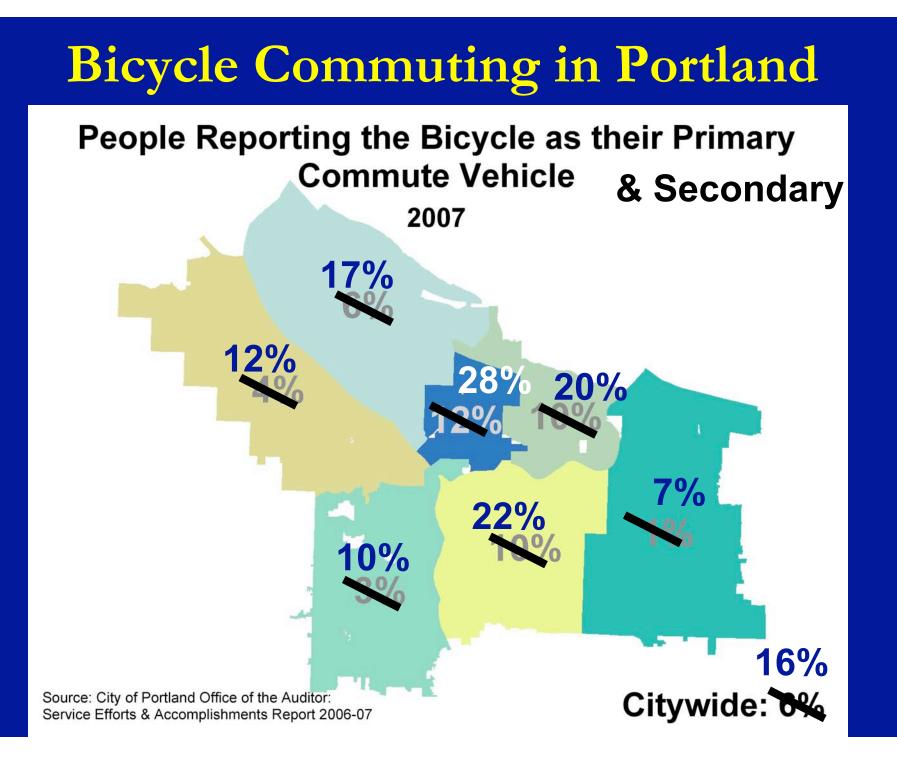




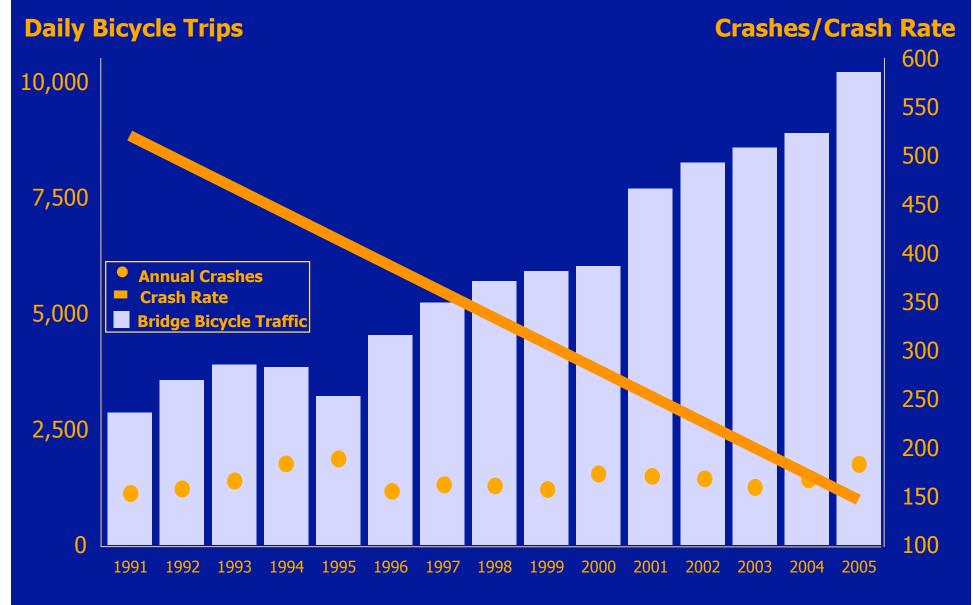








### **Decreasing Crash Rate**



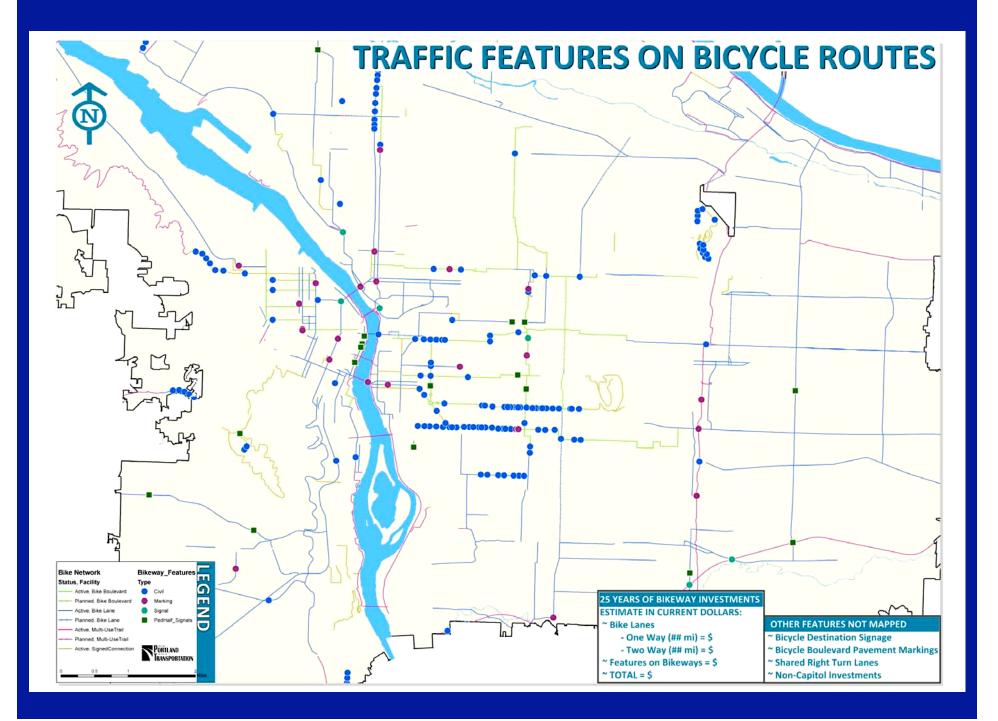
Year

## explosion in bike culture & commerce

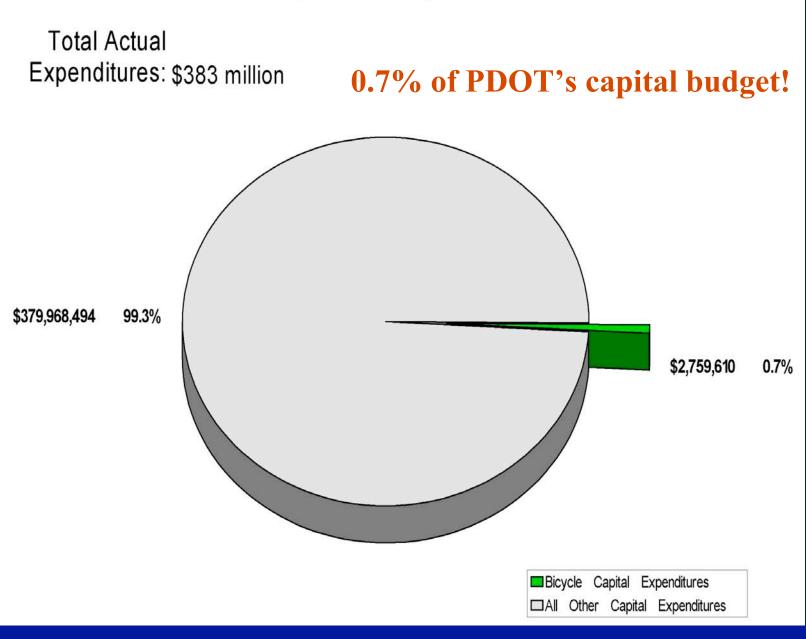
- breakfast on the bridges
- bike summer
- mini bike winter
- midnight mystery ride
- zoobombers
- move by bike
- bikeportland.org
- \$100 million local industry
- bike fashion
- pride in place: Portland as "bike city"
- politics

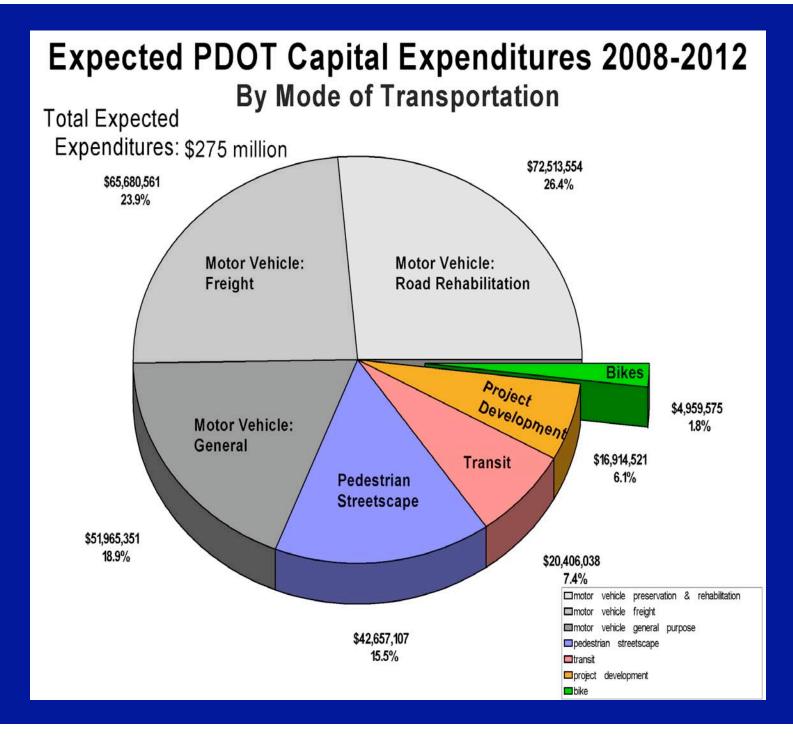
City No. 2

#### where we've invested so little

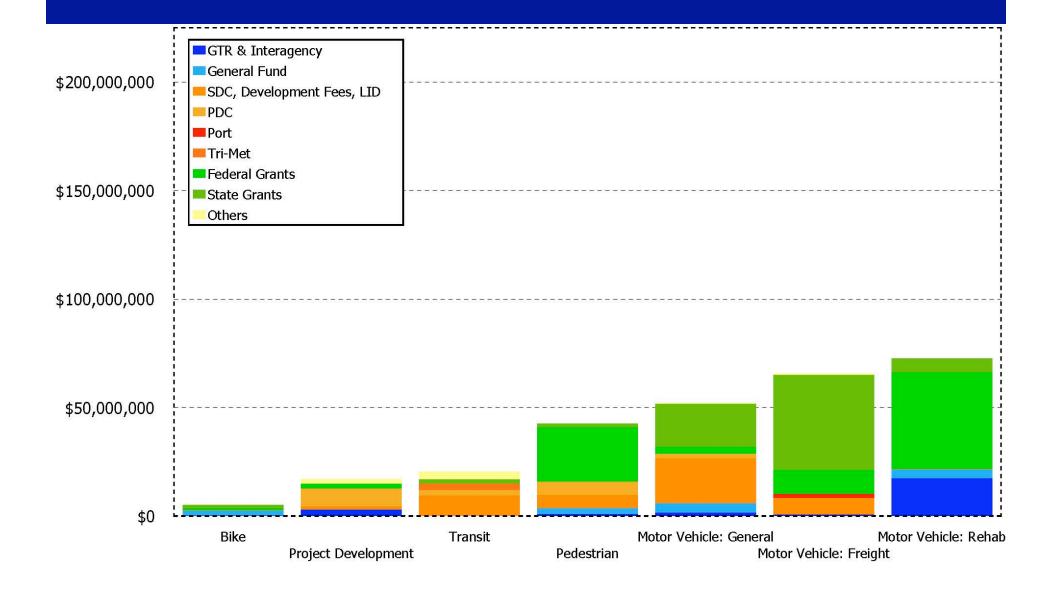


#### Actual PDOT Capital Expenditures 2000-2007

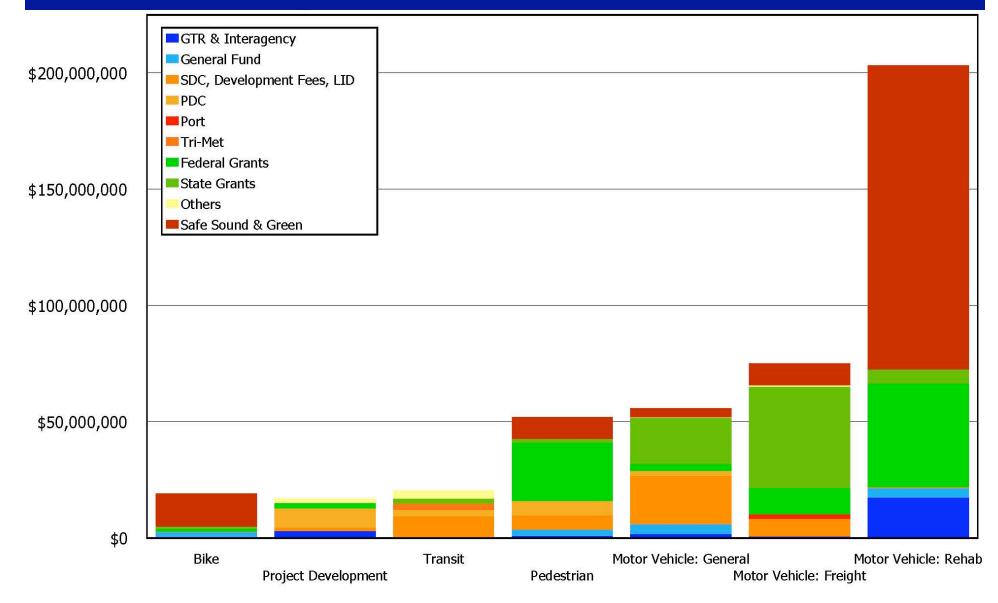




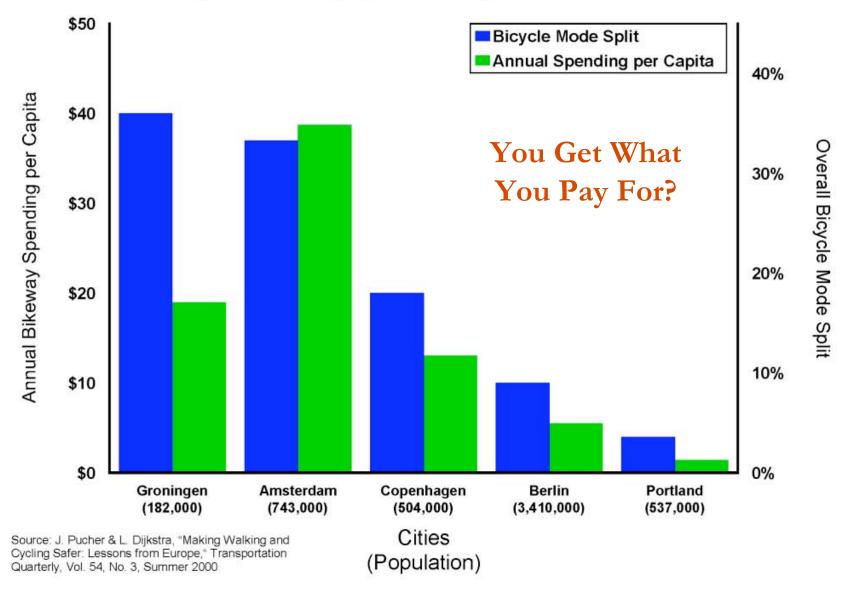
# PDOT's Proposed Capital Funding 2008-2012 (Before Safe, Sound & Green)



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



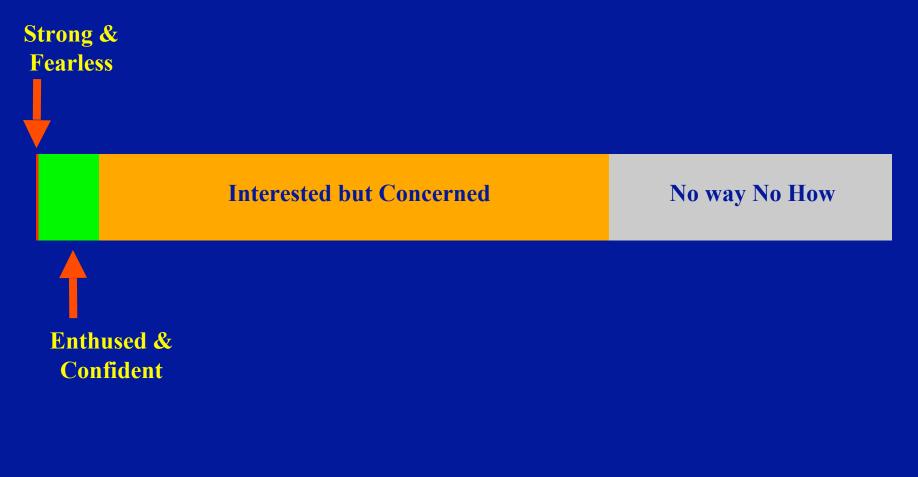
#### Annual Spending per Capita and Mode Split



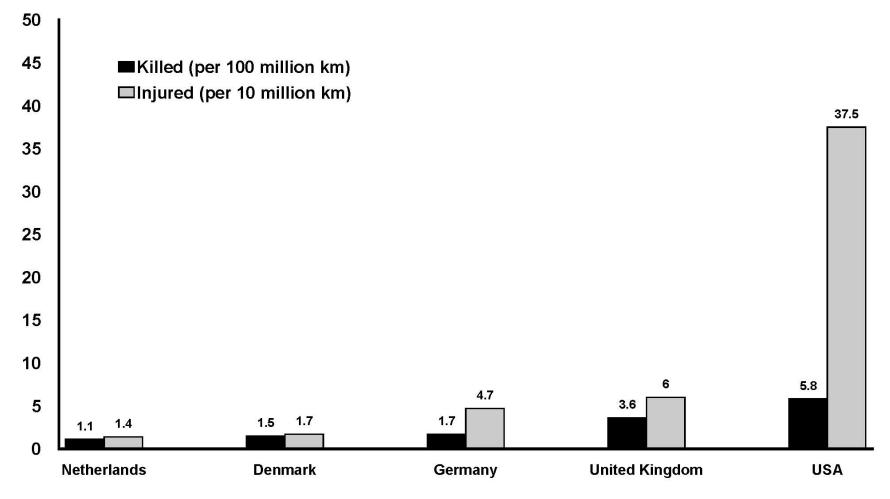
City No. 3

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.

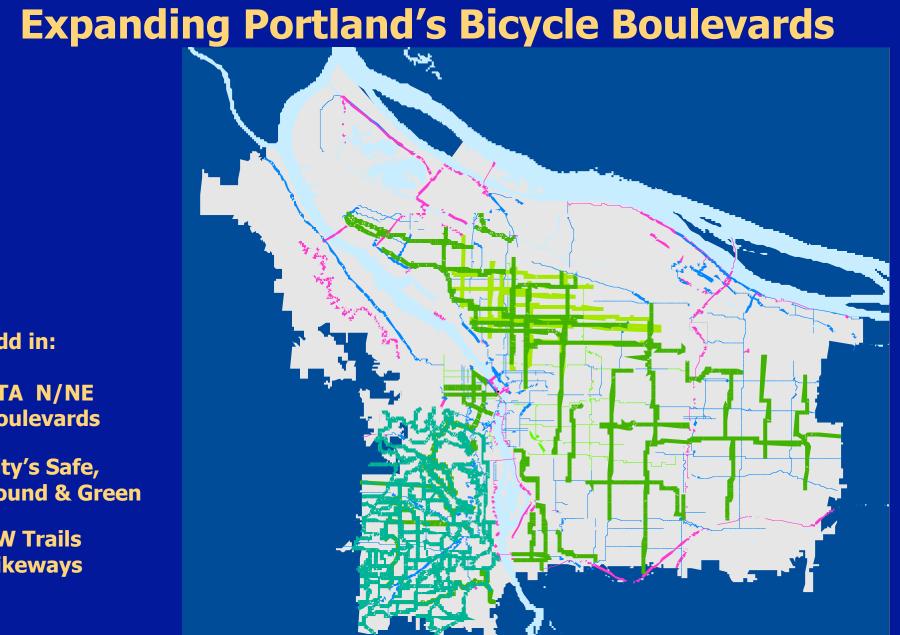


#### **Bicycle Boulevard**

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



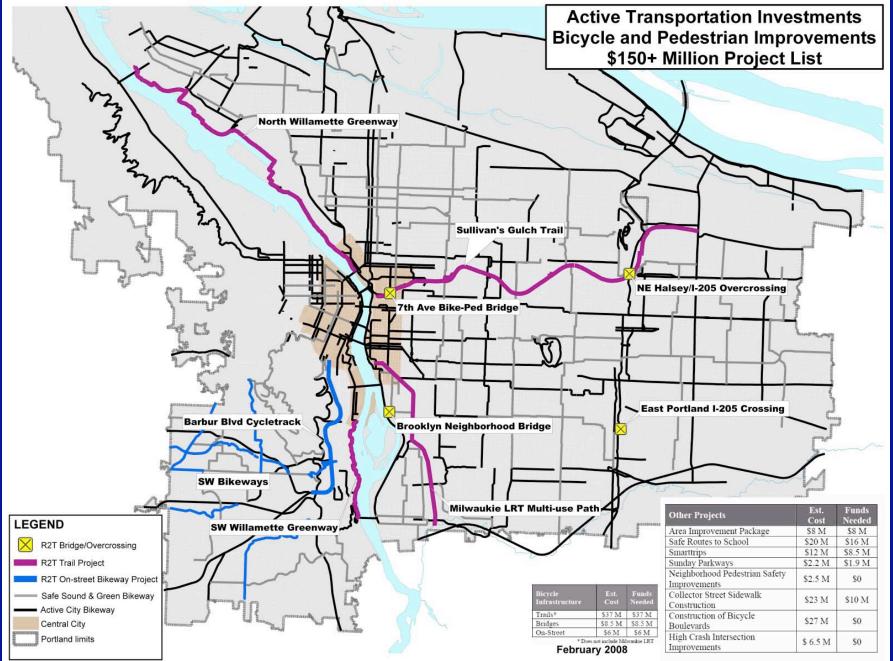


# Portland's "\$150 Million List"

- 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%

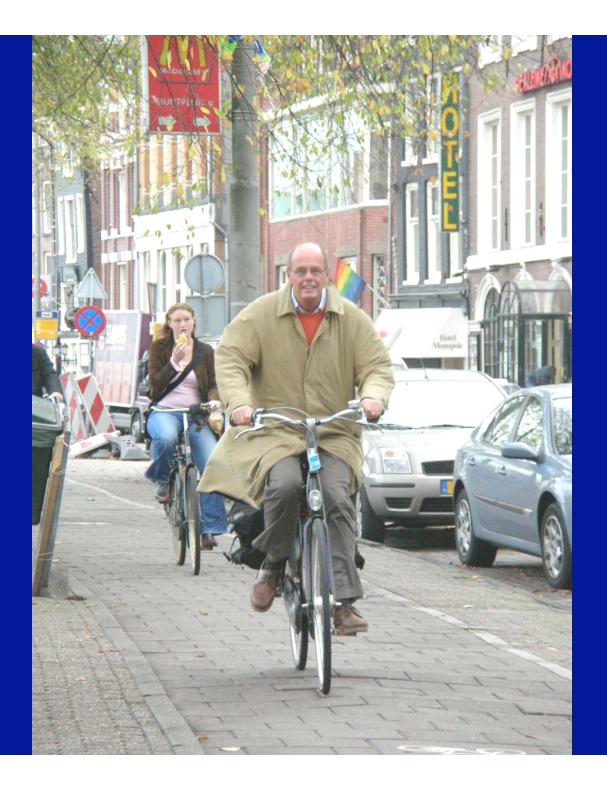
Percentage of state budget we'd need to spend \$18 per capita on bicycle facilities & programs in Oregon's urban areas

# 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



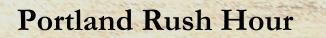












# For more information:

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