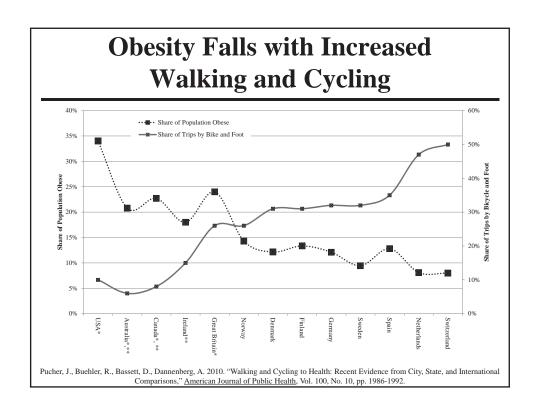
Making Cycling Irresistible: Lessons from Europe and North America

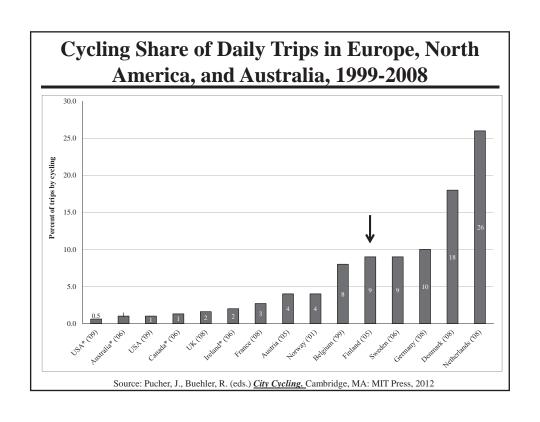
Ralph Buehler, Virginia Tech & John Pucher, Rutgers University

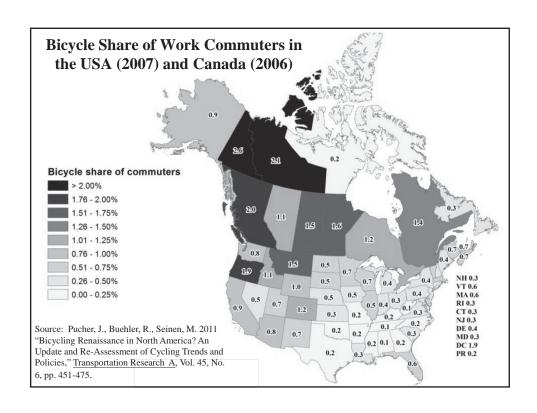


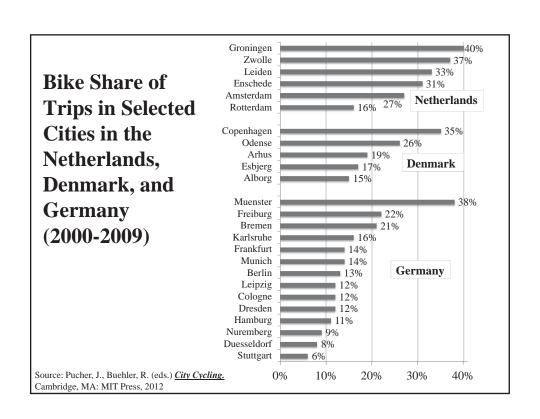
Advantages of Walking and Cycling:

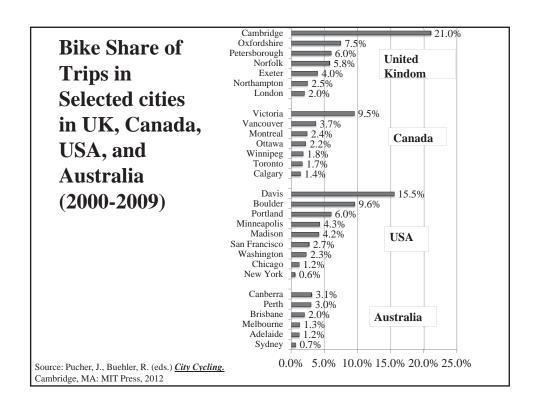
- *Economical*: Affordable by everyone, requiring minimal costs for individuals and governments
- <u>Good for business:</u> Generate retail sales and profits from tourism
- Environmentally friendly: Virtually no pollution
- <u>Energy-efficient:</u> Use up calories we need to burn off from eating too much
- <u>Healthy</u>: Many studies report on physical, social, mental health benefits
- <u>Fun:</u> Getting out into the fresh air with family and friends

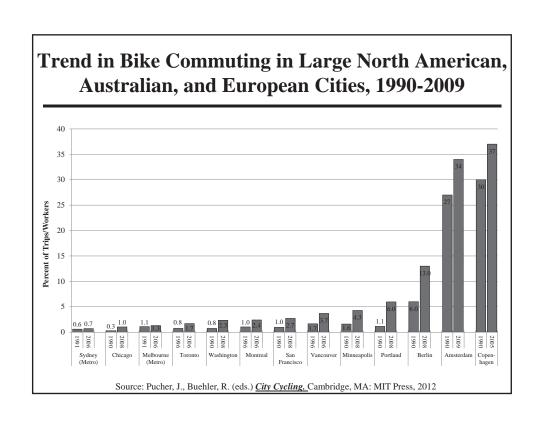


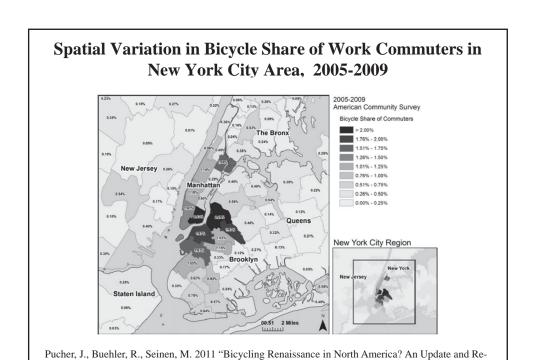




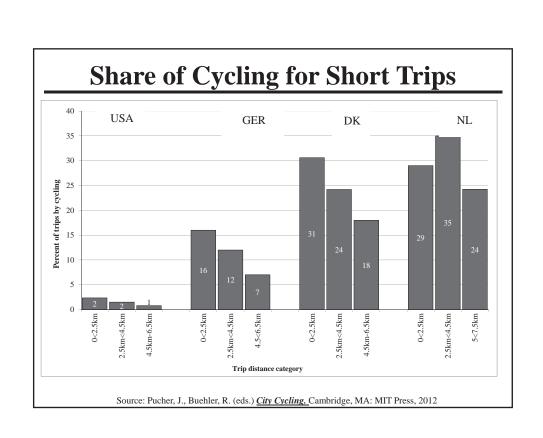




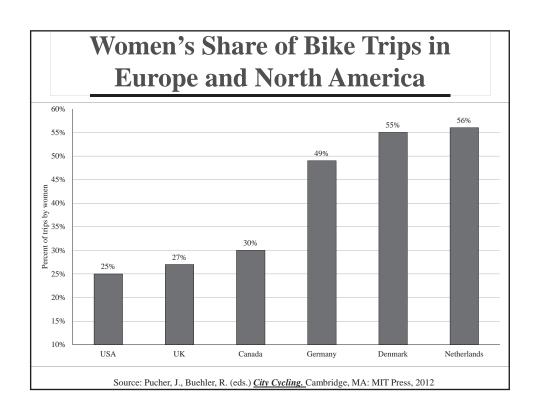


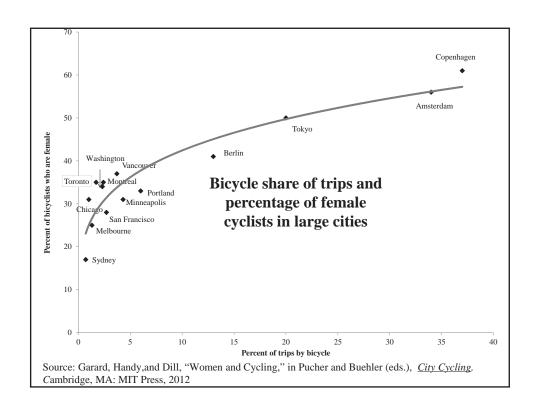


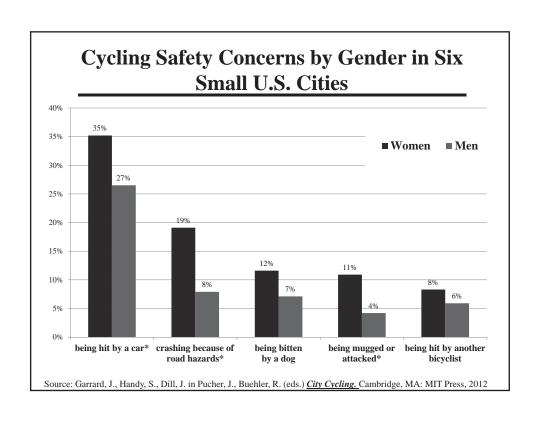
Assessment of Cycling Trends and Policies," <u>Transportation Research A</u>, Vol. 45, No. 6, pp. 451-475.

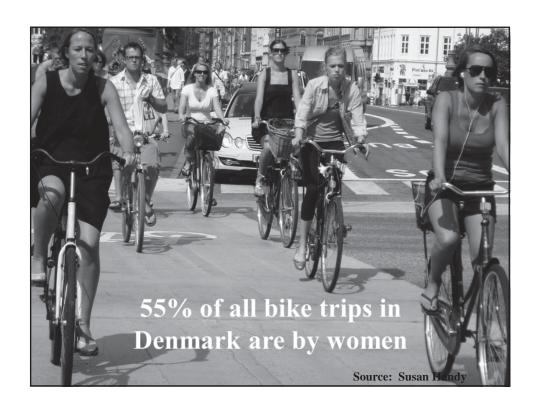


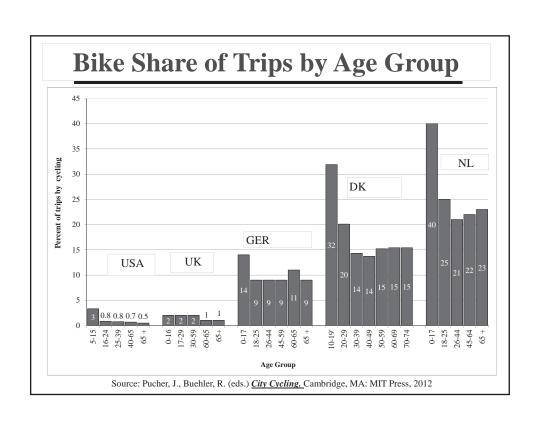


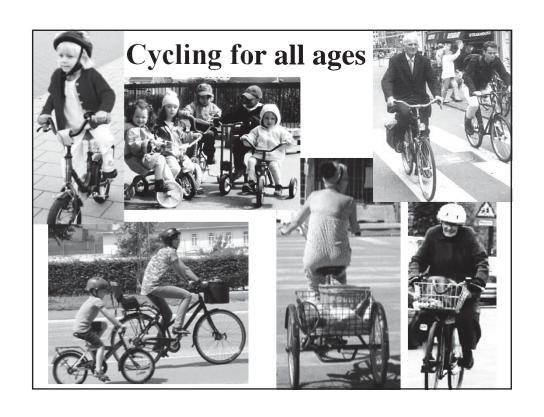








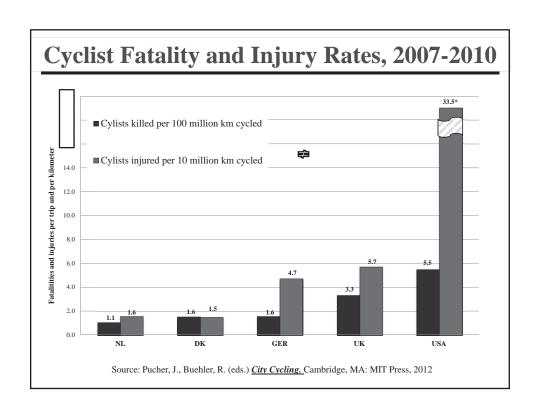


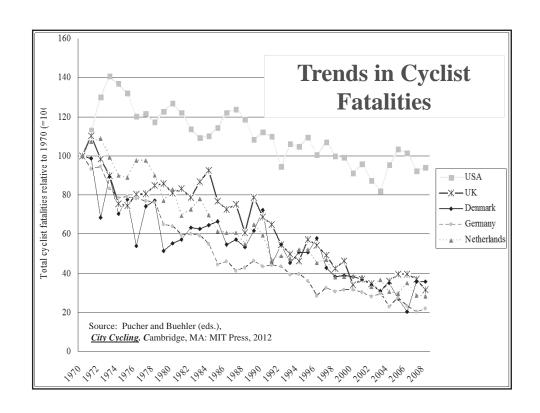




Make Walking and Cycling Safe for Everyone!

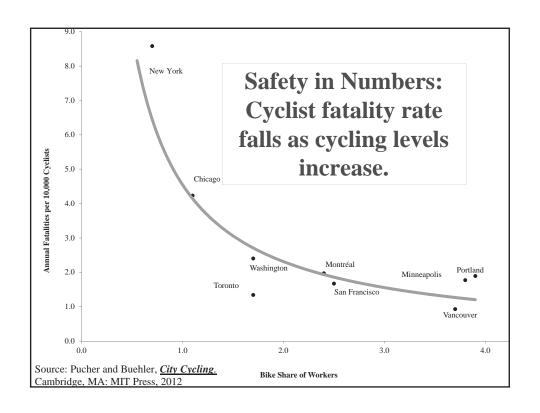
- •Especially important for the young, the old, for anyone with disabilities, for the timid or risk-averse
- •Women more sensitive to safety than men
- •Safety of walking and cycling in the Netherlands, Denmark, and Germany helps explain high levels of walking and cycling there

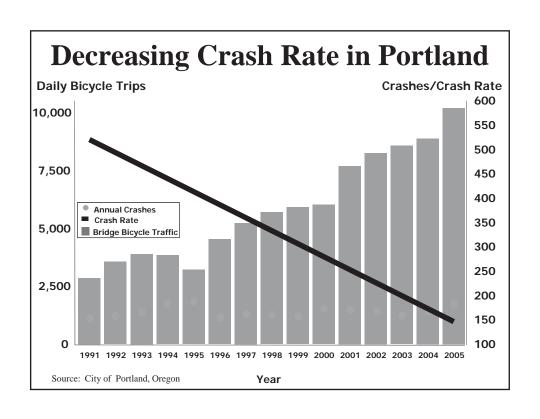


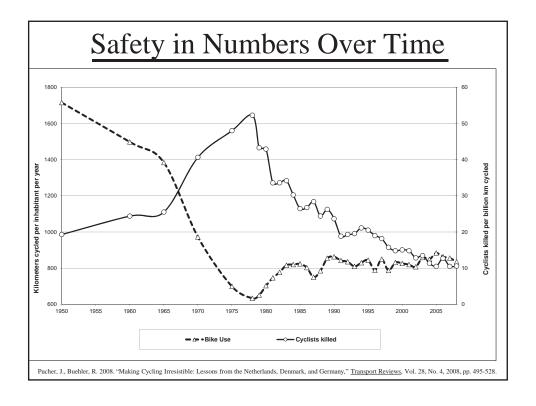


SAFETY IN NUMBERS

- •As levels of cycling increase, injury and fatality rates per trip and per km traveled fall dramatically
- •Thus, if we can increase cycling, it will almost inevitably be safer

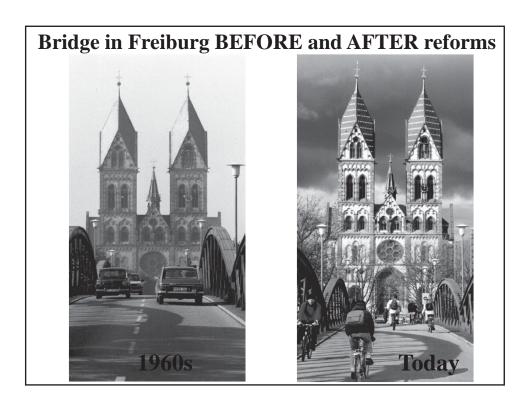


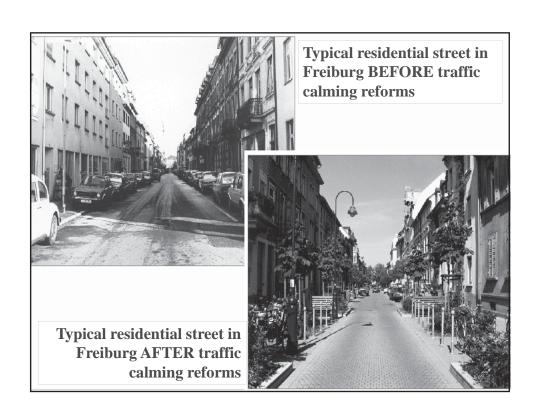


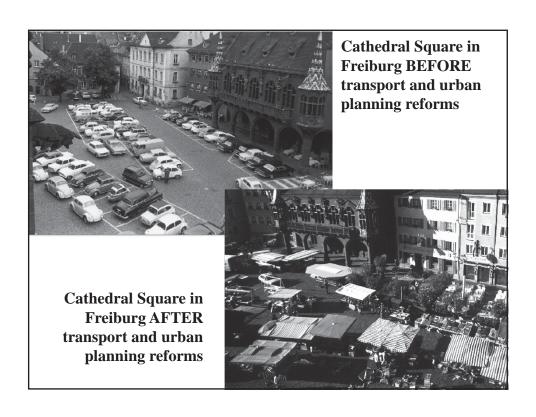


Public Policies <u>Crucial</u> to Walking and Cycling

- Pro-car policies in European cities in 1950s and 1960s caused huge decline in walking and cycling
- Dramatic policy turn-around since 1970s to limit car use and promote cycling, walking, and public transport in Dutch, Danish, and German cities











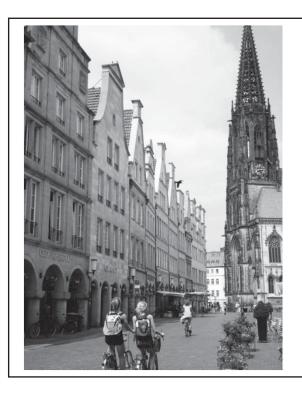


How to Encourage More Cycling and Walking while Improving Safety

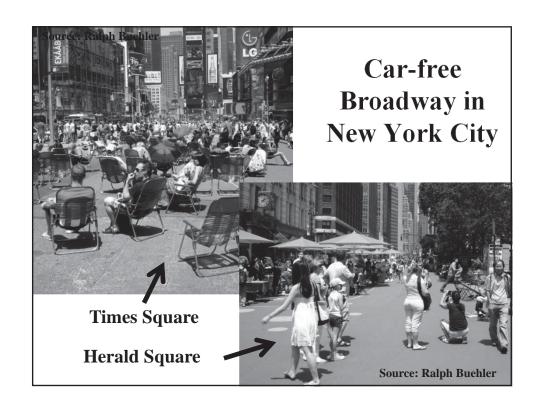
- Better cycling and walking facilities
- •Integration of walk/bike with public transport
- •Traffic calming of residential neighborhoods
- •Mixed-use zoning and improved urban design
- •Restrictions on motor vehicle use
- •Traffic education and Safe Routes to School
- Traffic regulations and enforcement

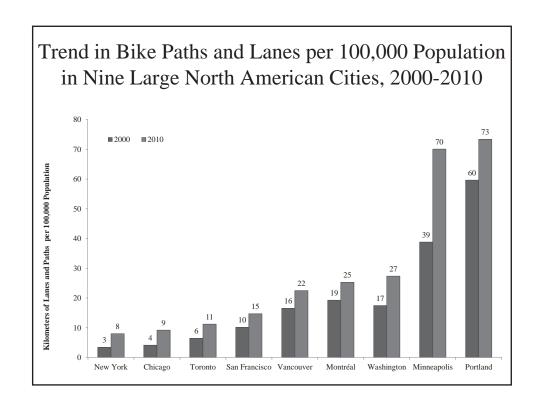
National Level Policies

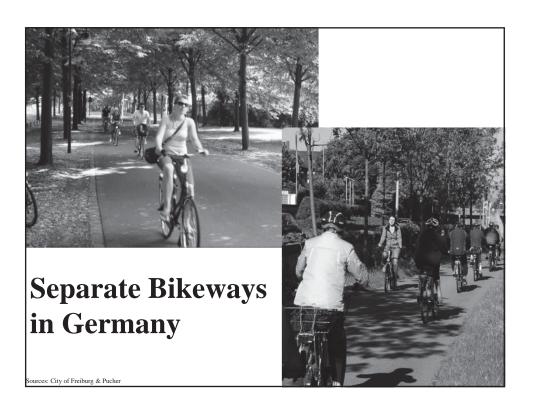
- Goals of increasing cycling levels and safety
- Improved data collection and benchmarking
- Bike infrastructure along federal/national roadways
- Cyclist and motorist training
- Traffic laws, signage, roadway and bikeway design guidelines
- Matching funds for approved state and local projects
- Funding for 'showcase' projects
- State and local governments ultimately responsible for implementing specific cycling infrastructure and programs.



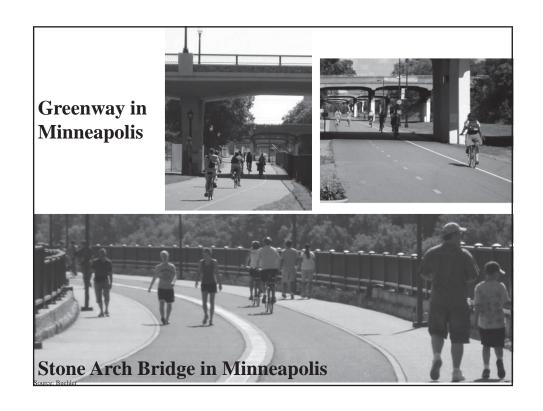
Most European cities have extensive carfree districts ideal for walking and cycling

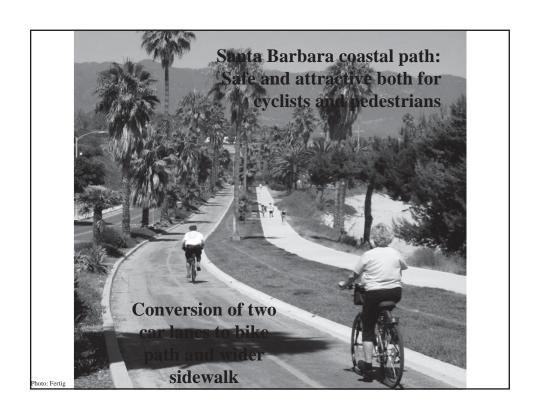


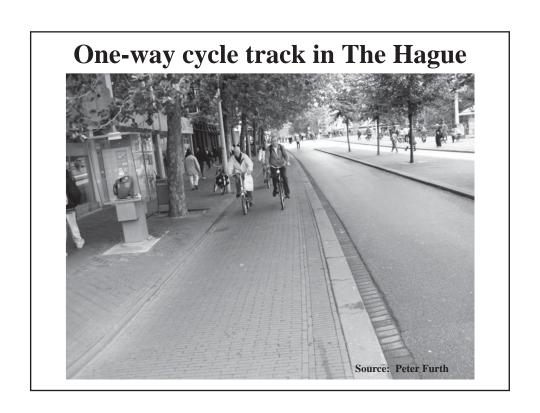


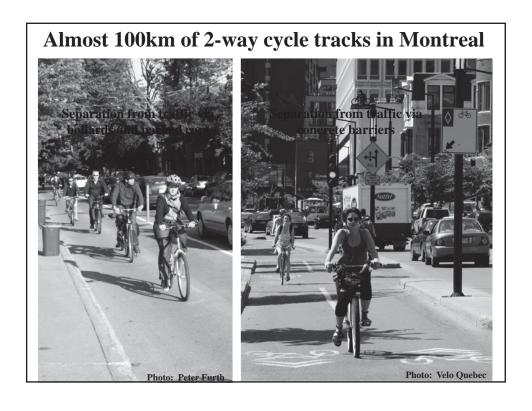


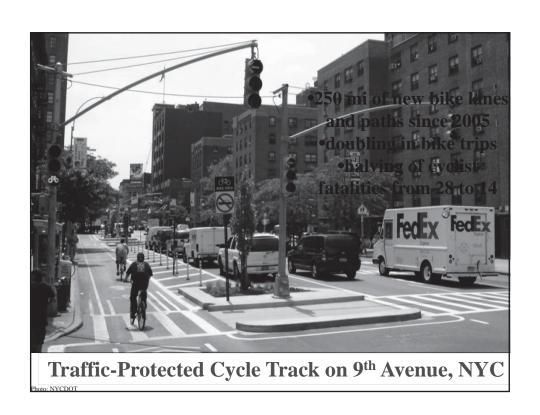
















Connects the White House with U.S. Capitol

Cycle Track on Pennsylvania Avenue in Washington, DC