Getting There Is Half the Fun

Transportation Happiness & Our Quality of Life

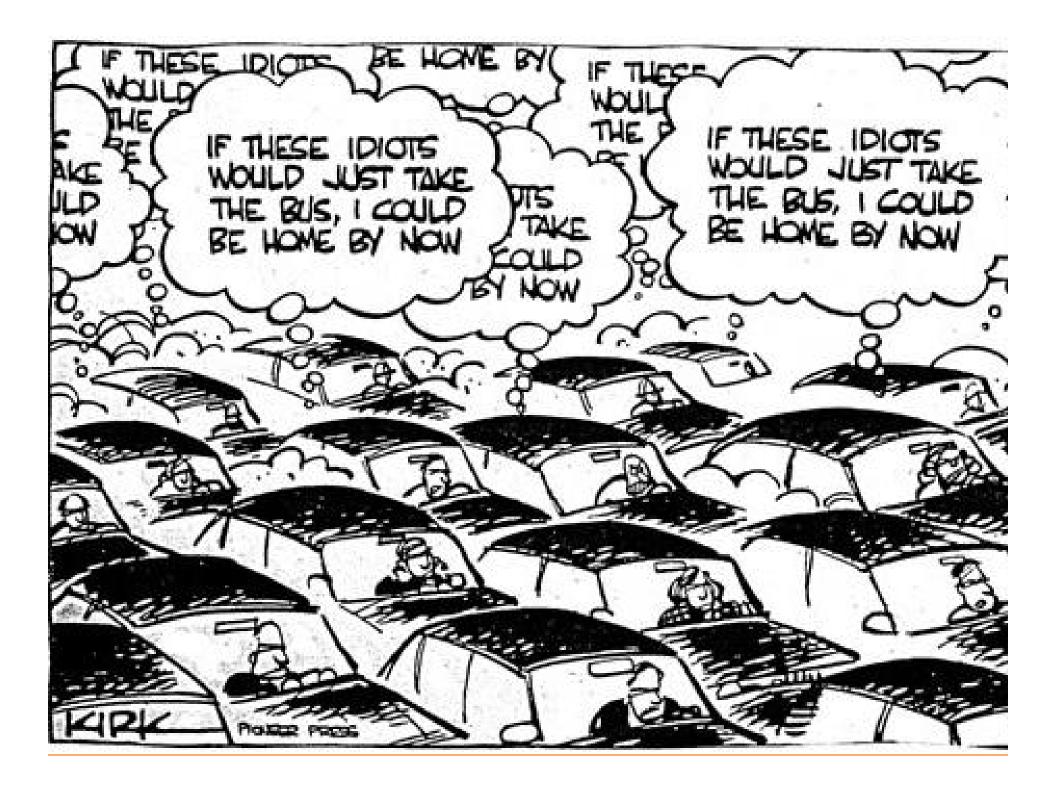
Healthy Weight Initiative, Harvard School of Public Health Board of Directors, LivableStreets Alliance

Steven E. Miller

LivableStreets Rethinking urban transportation

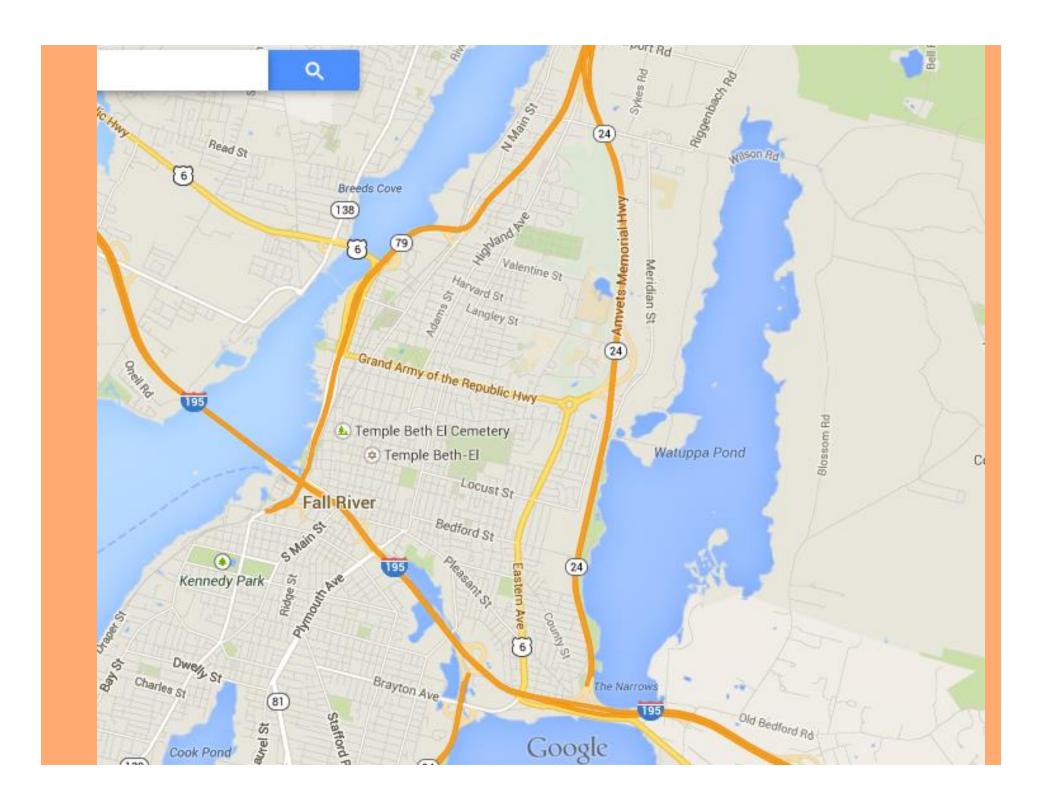






"If you don't know where you're going it is hard to tell when you're heading in the wrong direction."







SomerVision

City of Somerville, Massachusetts
Comprehensive Plan | 2010-2030



Common Themes

O walkable, varied, and busy (but not overcrowded) retail areas, bikeable and transit-accessible transportation, lots of opportunity to meet and socialize with others, dense (but not high-rise) energyefficient residential areas, clean air and lots of greenery, cultural options and quiet spaces, nearby parks and recreational facilitiesõ

LIVABLE STREETS

Efficient Safe Multi-Modal Healthy Green **Smart** Accessible Fun

Complete Streets



Complete Streets are Safe Streets









- " Design Elements & Process
- An Economic DevelopmentStrategy

HAPPINESS

"We need to walk, just as birds need to fly. We need to be around other people. We need beauty. We need contact with nature. And most of all, we need not to



not to be excluded. We need to feel some sort of equality."

Enrique Penalosa, Mayor of Bogota, Columbia

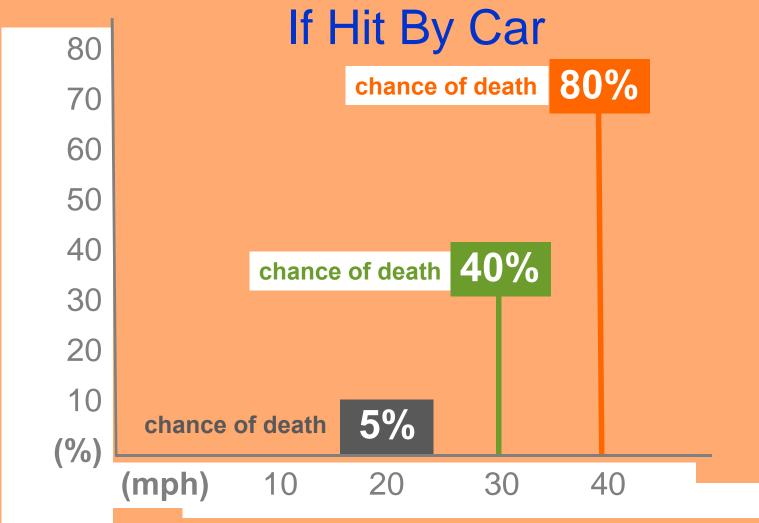
Transportation & Happiness

- "Safe & Healthy
- "Walkable, Bikeable, Sociable
- "Beautiful, Sustainable, Natureenhancing
- "Inclusive, Accessible, Equitable
- "Affordable, Efficient, Commerceenhancing

SAFETY = SLOWING DOWN

Pedestrian Probability of Death

If Hit By Car



Livable Streets

Source: Pasanen (1992) http://tinyurl.com/yuohsg

Traffic Calming & Road Diets

- Sharper Corners & Turns
- " More Activity
 - . On Street
 - . Alongside Street
- " Bumps & Bulb-outs
 - . Pedestrian safety
- Weaving Curves
 - . Chicanes

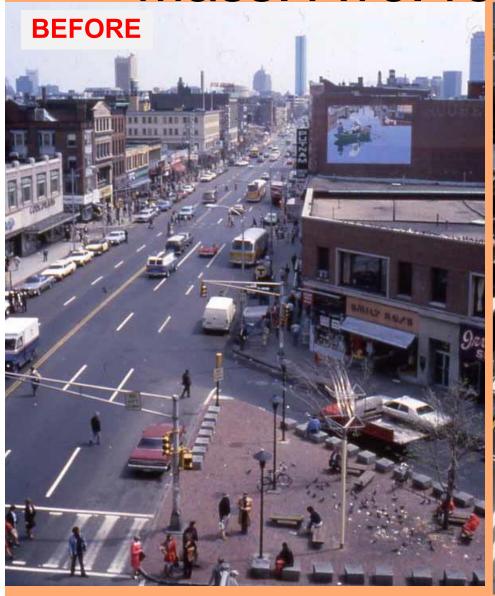
- " Fewer Lanes
- " Narrower Lanes
 - . Physically
 - " 10qor less
 - Wider sidewalks
 - " Bike Lanes
 - Visually
 - " Bike Lanes
 - " Trees
 - " Storefronts

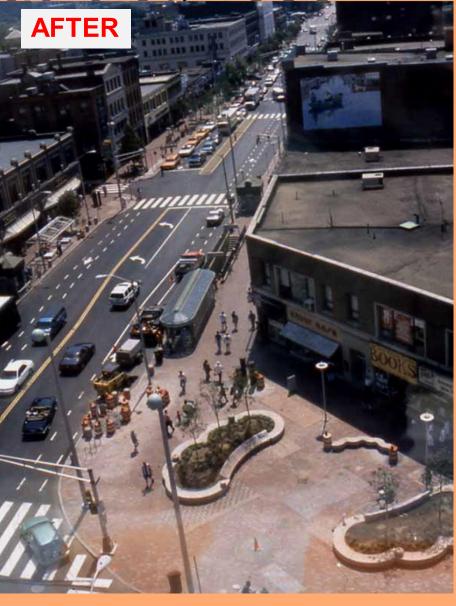




Mass. Ave. road diet. 1996

AFTER







Physical Activity Guidelines

- "Health: Moderately intense exercise. at least 30 minute 5 days a week, or vigorous exercise at least 20 minutes for 3 days a week.
 - Increases heart rate, causes sweat"Brisk walk, moderate speed cycling, light jog
- "Weight Control: 60+ minutes daily
 - . To loose weight, change diet
 - . To maintain healthy weight, increase activity
- " Spare Time vs Daily Routine

Lack of Physical Activity...

- " High blood pressure; Stroke; Heart Disease
- Osteoarthritis & back pain
- "Several types of cancer
- " Diabetes
- " Depression; Mental acuity; Alzhizmerg
- " Overweight & Obesity
- "Social and Economic Struggle

CYCLING & HEALTH

- " "Over a 10 year study span, non-bikers, even if they were active in sports, were 40 percent more likely to die than bikers.+
- "‰or every year of life lost to a bike crash, twenty years of life are gained from stress reduction, greater cardiovascular fitness, and improved mental health.+
- "Per mile traveled, >3x as many pedestrians die from auto collisions than do cyclists."



Air Pollution

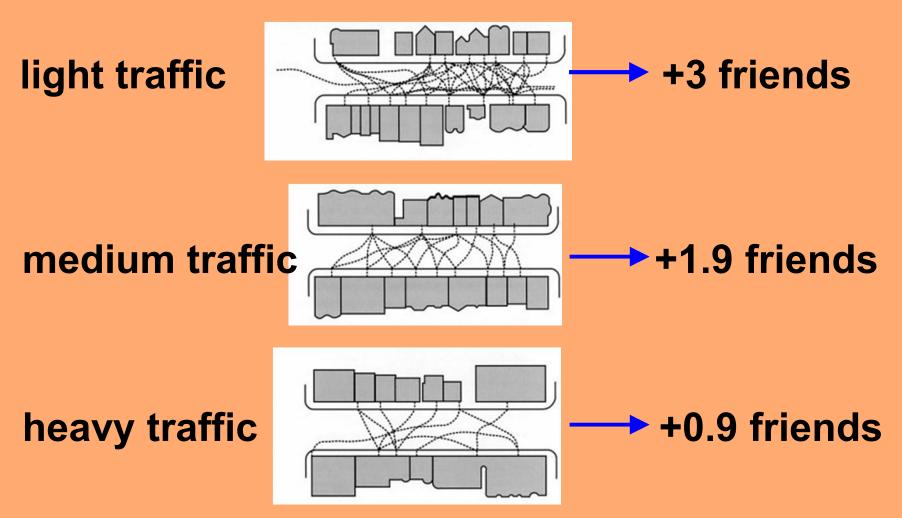
- Combustion-caused particles cause up to 15% of all US death each year:
 - . and take about 2 years off the average life span.
- " Families living <300' from highway:
 - . up to double the rate of childhood asthma,
 - . up to quadruple the risk of impaired lung function,
 - up to double the adult rate of heart attacks and lung cancer.
- Transportation related air quality health costs -- \$50 to \$80 billion a year

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More traffic means fewer friends



Source: Donald Appleyard, <u>Livable Streets</u>, University of California Press, Berkeley, 1981.







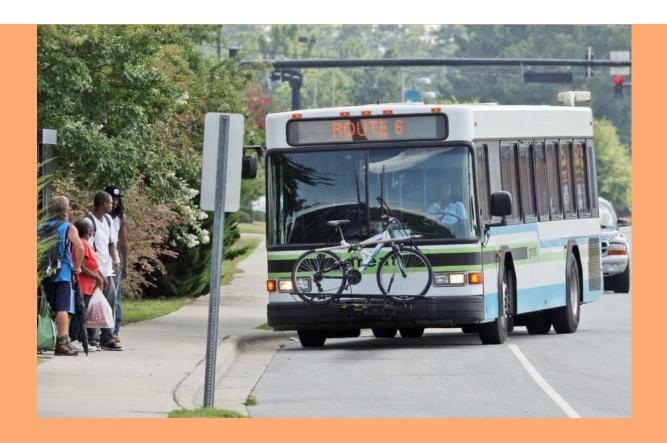












Walkable cities are backed up by good transit facilities: every bus ride begins and ends with a walk!

People in walkable neighborhoods have a nearly 8% lower incidence of overweight than people in car-dominated areas. After adjusting for age and sex, people in less walkable communities also had higher diabetes rates: 11.3 percent, compared with 8.5 percent.



Broadway, NYC / Before



Broadway, NYC / After



Times Square, New York City







Park(ing) Day



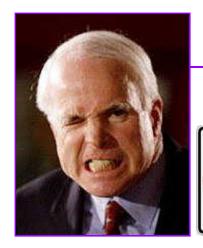
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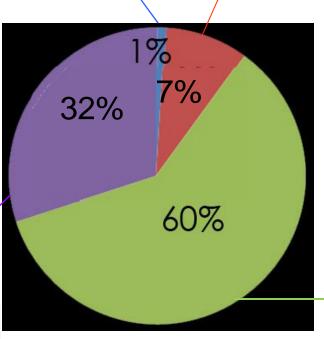
Types of Cyclists



Strong and fearless



%No way, no how+

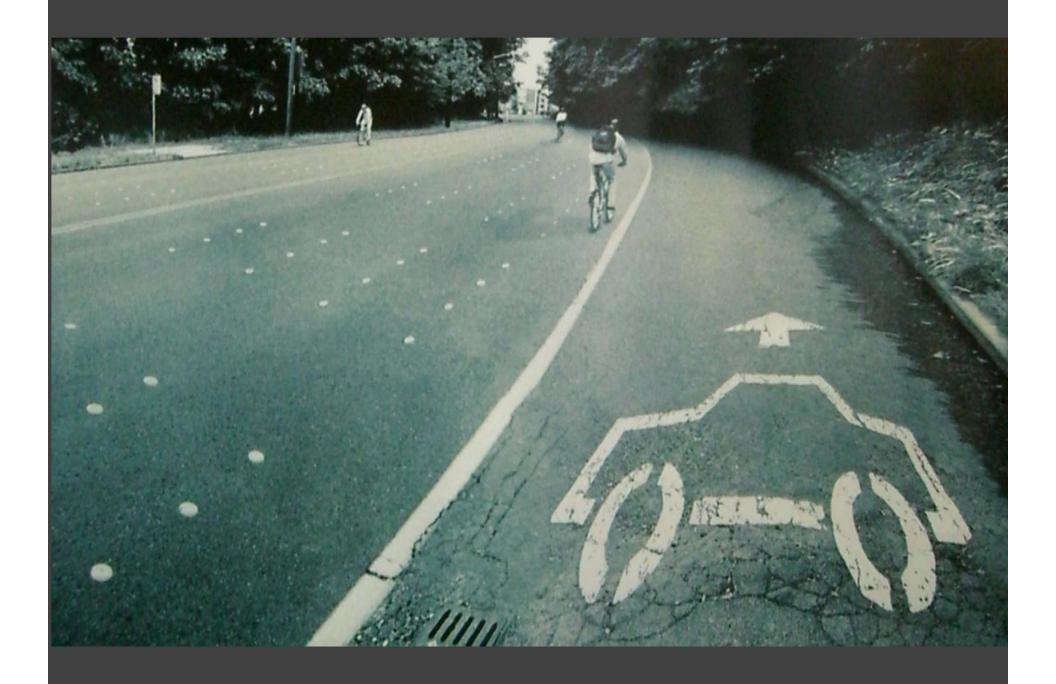


Enthused and confident



Interested but concerned







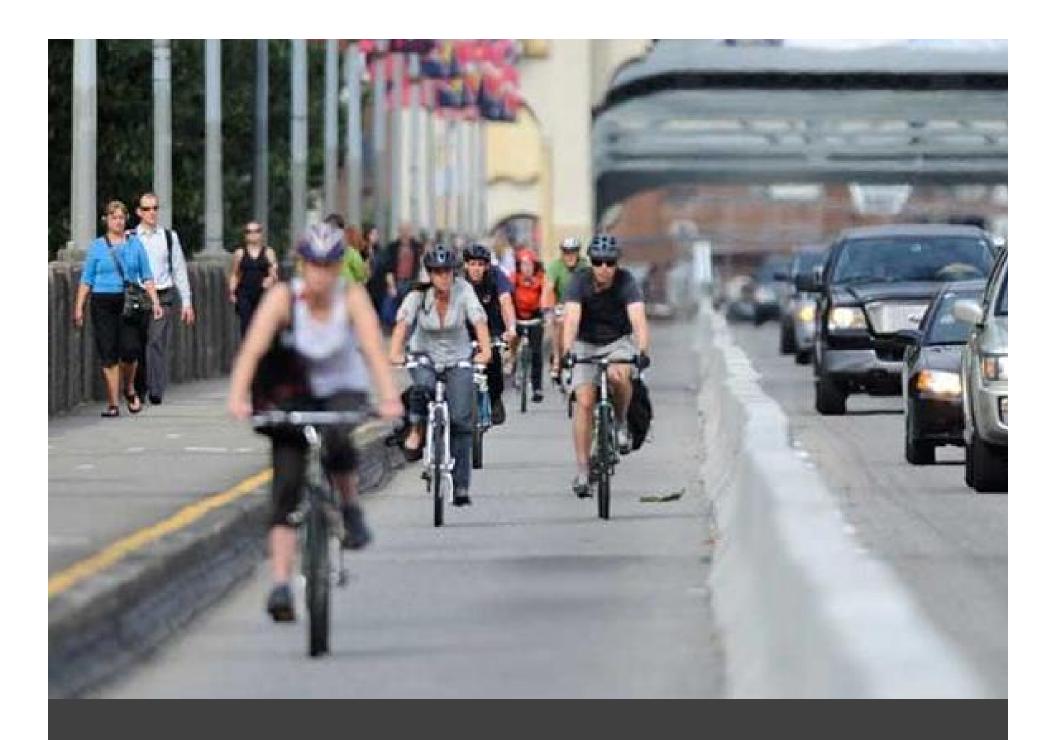




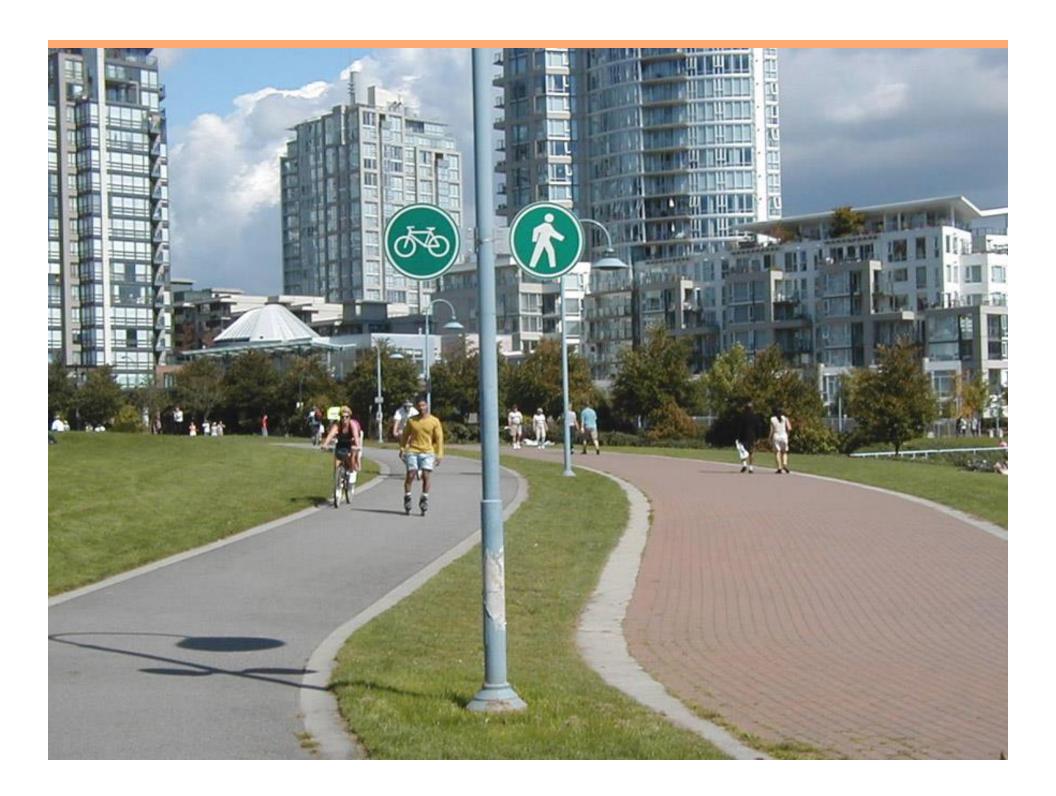
SAFETY through SEPARATION

cycle track / physically separated protected bike lane 9th Avenue, NYC

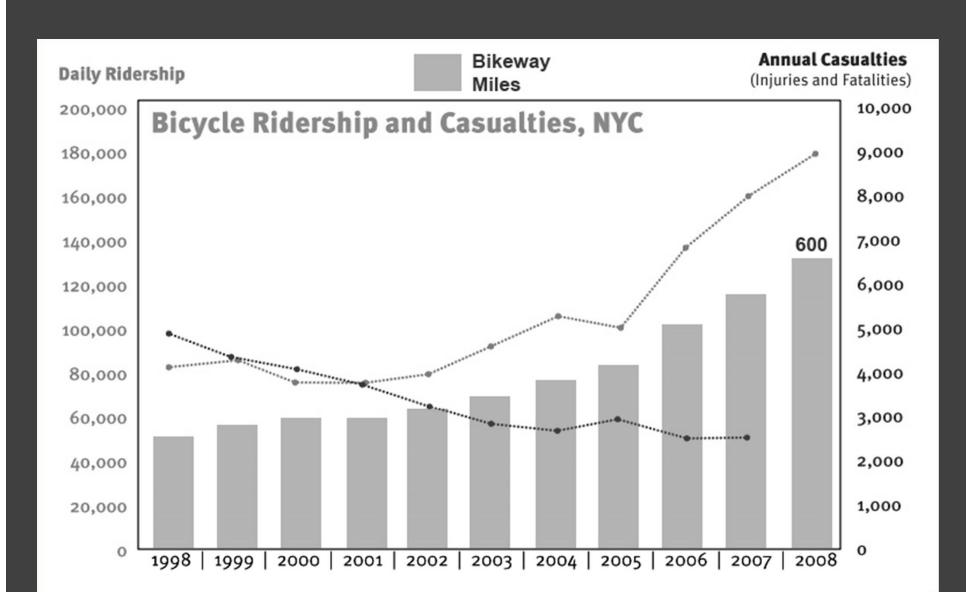




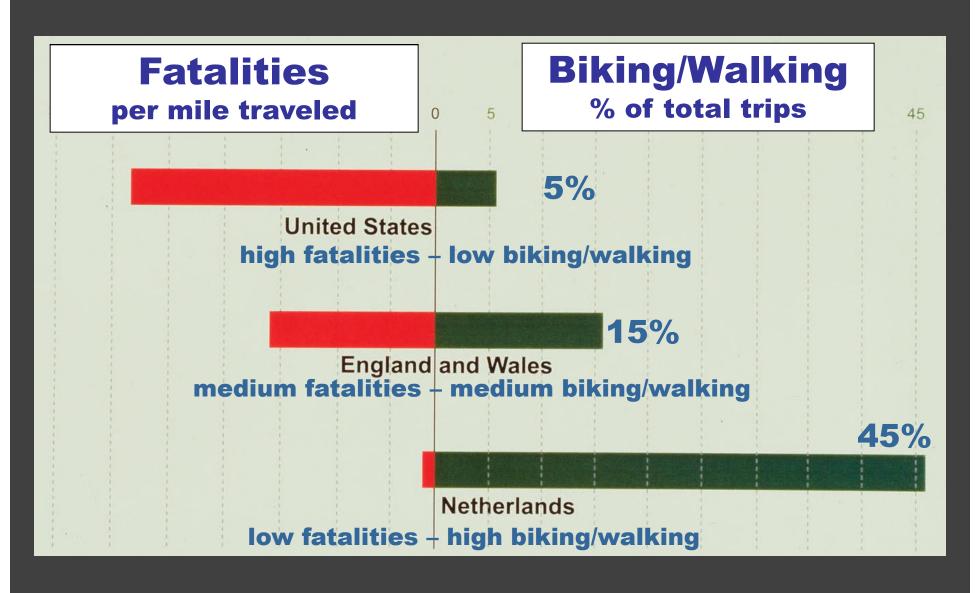


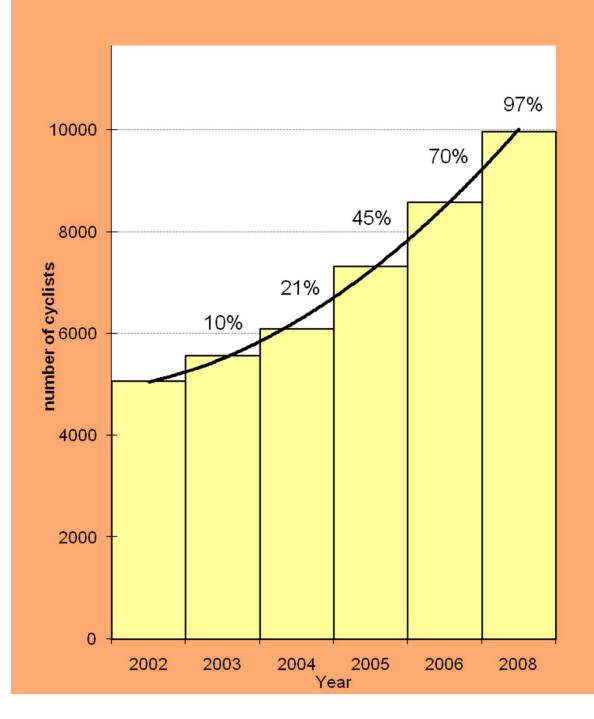


Safety in Numbers



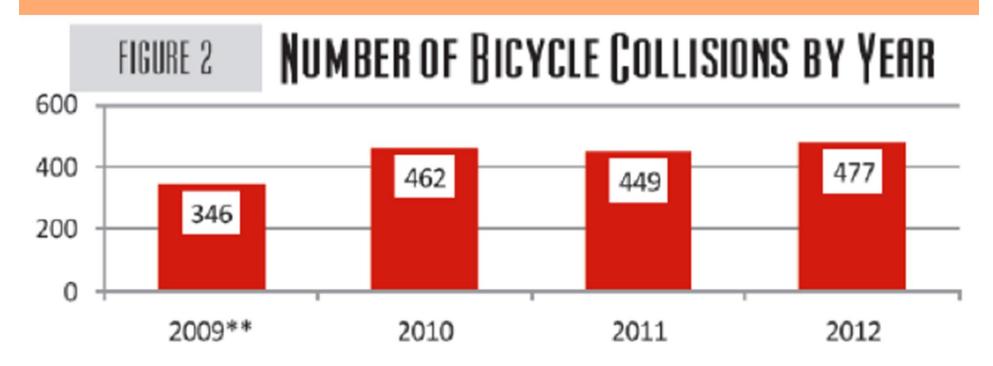
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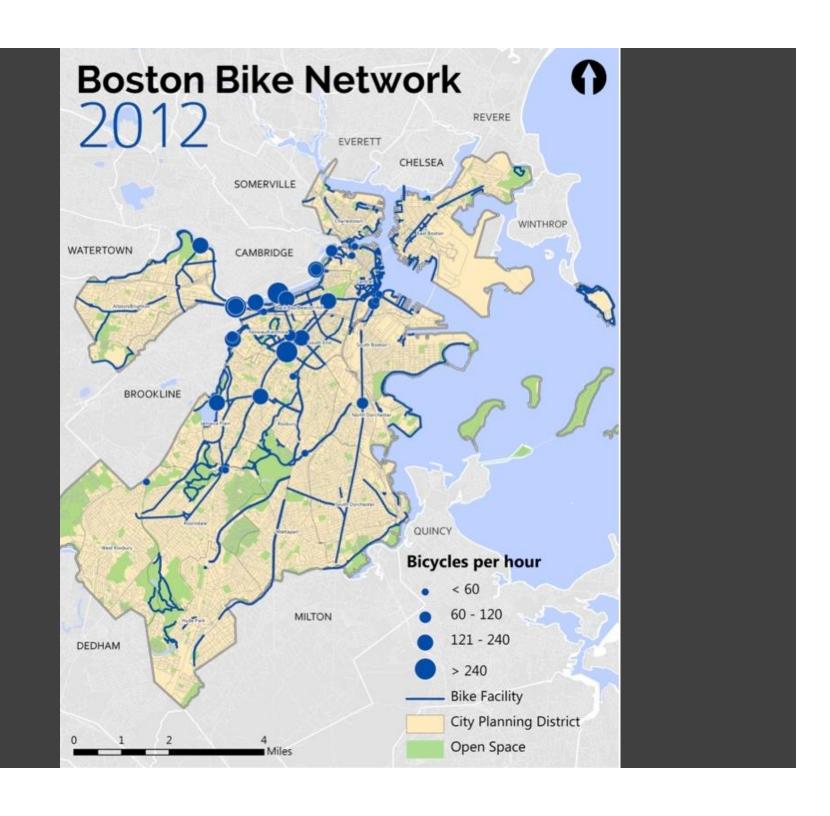


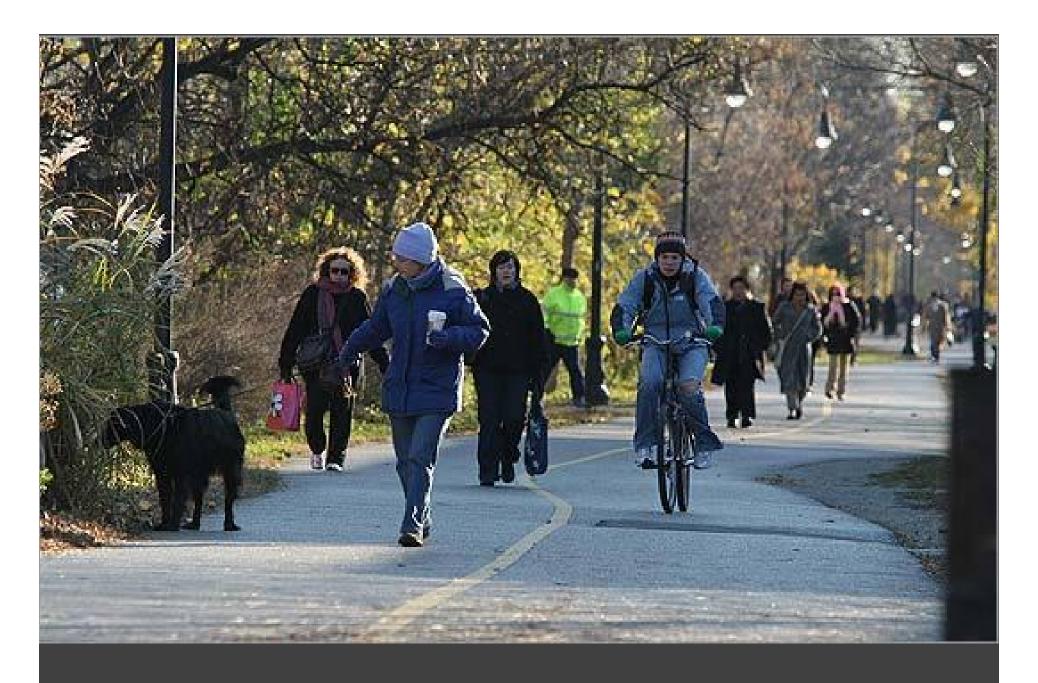
If You Build itõ õ in Cambridge, bicycle trips doubled in 6 years

Boston Police Data



**Note: Incomplete data for this year.





RAIL-TRAIL PATHS õ. GREENWAY CORRIDORS

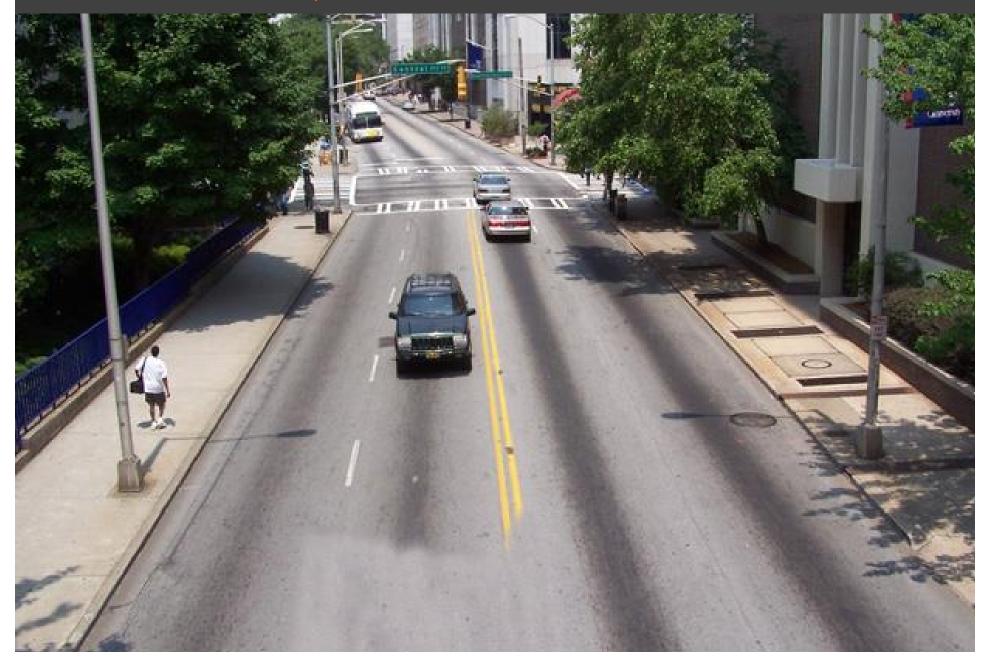
Rail-Trail Myths

- "Rail-to-Trail paths create trash
 - " vs. filth on abandoned ROW
- Off-road facilities attract crime
 - "vs. creating more byes on the street+
- "Bike facilities reduce property values
 - . Parking, noise, loss of privacyõ
 - "vs. 10% to 25% increase, tied to proximity
- "No equipment or staff for maintenance
 - " vs. volunteers and shifting priority

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Decatur Street, Atlanta / Before

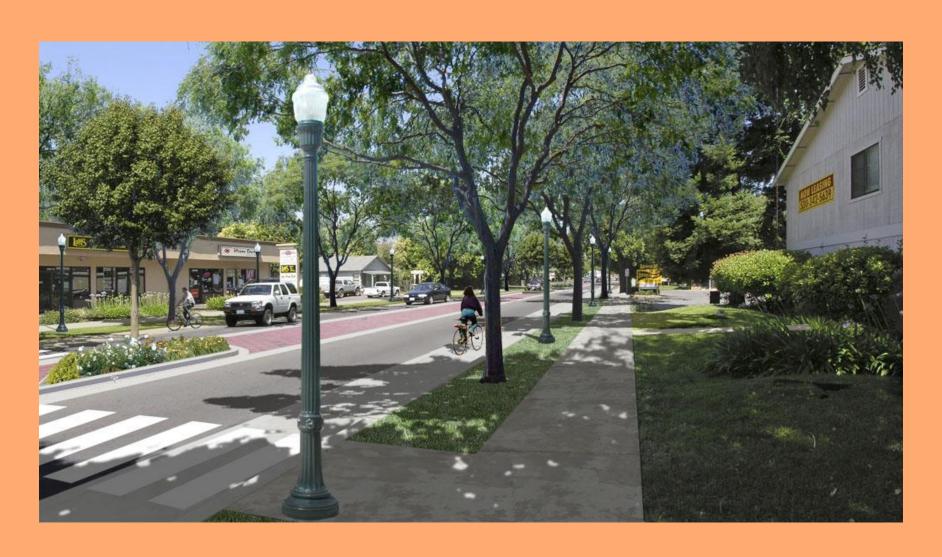


Decatur Street, Atlanta / After





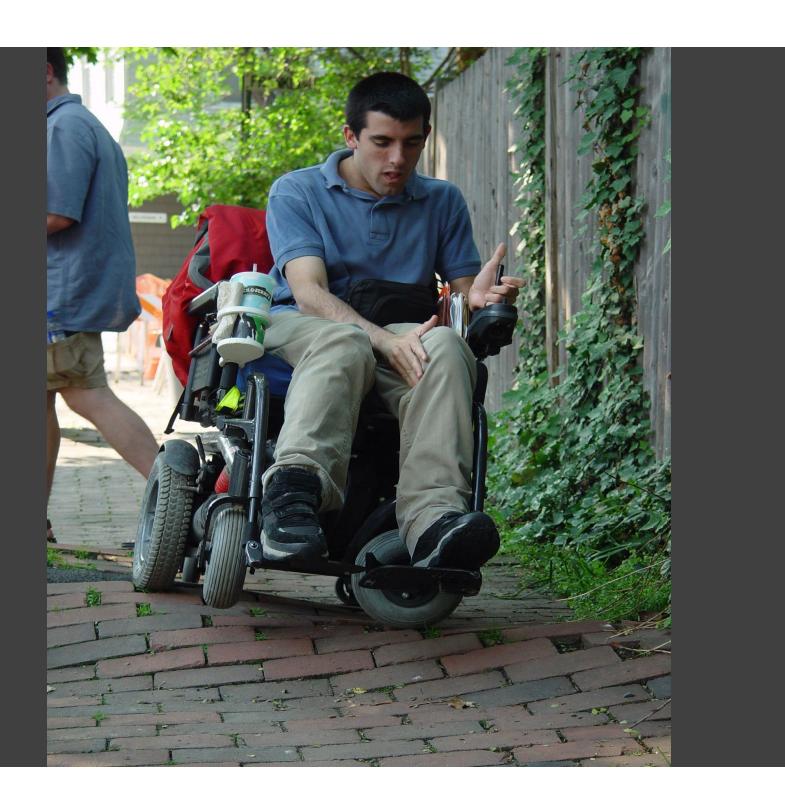






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Green Livability:
The Aesthetic Bonus





Streetscape Transformation



Streetscape Transformation



Streetscape Transformation



Green Livability:
The Aesthetic Bonus



"If you don't know where you're going it is hard to tell when you're heading in the wrong direction."

If you plan for cars and traffic, you get cars and traffic.

If you plan for people and places, you get people and places.

- Fred Kent, Project for Public Spaces

Key Concepts Underlying Positive Examples

1. Slow Traffic Down

- . 20 mph; focus on %broughput+not speed
- . % Traffic calming+

2. Expand Alternative Infrastructure

- Train, trolley, bus (BRT)
- . Bike lanes, paths, cyclé tracks
- Sidewalks, plazas, %hared space+

3. Prioritize transit, bikes, walking

- Lane width, parking, hidden costs
- . Reduce car traffic

Key Concepts Underlying Positive Examples

4. Design from @utside In+

- . %Gomplete Streets+(taken seriously!)
- . Sidewalk, bike lane, transito .then traffic

5. Focus on Safety

- Everyone benefits when needs of most vulnerable are addressed
- Safety in numbers!!

6. Treat Streets as Public Space

- Dong restrict use to traffic or travel
- . Full range of uses: quality of life!



Hub on Wheels / Storrow Drive



MY CAMPAIGN PLATFORM

- " Better Health
 - less asthma, diabetes, high blood pressure
 - stronger bones, muscles
 - greater fitness, feeling of wellbeing
 - less dementia, heart attacks, strokes

- " Less Crime
- " Better School Performance
- " Cleaner Environment
- " Reduced Greenhouse Gases
- " Less War
- Better Looking Communities
- " Friendlier Neighborhoods
- More Prosperous Business District

Active Transportation



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