Lifesavers session title: Collection and Use of Data for Pedestrian and Bicycle Safety

Uses of bicycle and pedestrian

transportation data for

safety, public health, and livable cities

David Patton

Bicycle and Pedestrian Transportation Planner





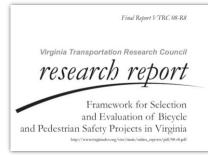
Utrecht, the Netherlands



At what cost have we internalized the norm of motorized transportation?

<u>Plan</u>:

Typical safety application of bicycle/pedestrian data New challenges <u>for</u> and <u>to</u> drivers Safety? Public health? Livable cities? Unexamined privilege - marginal disutility of driving Data driven, or data supported?



Four steps



Calculated exposure 62,000 vpd x 500 bikes+peds = 31,000,000 potential conflicts



You can build cities for cars, or you can build cities for people. -Enrique Peñalosa Former mayor of Bogotá

	Mobility – Automobile
THEN	Safety
NOW	Access/Mobility – Multimo
	Public Health
	Economic Development
	Environmental Quality
	Livability/Quality of Life

 Our Metrics Must Evolve, Too

 Mobility – Automobile

 Safety

 Cash Total (all, ymode, etc)

 Access/Mobility – Multimodal

 Public Health

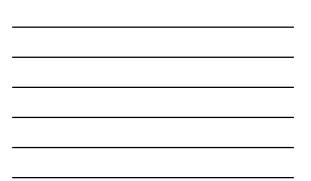
 Economic Development

 Environmental Quality

 Livability/Quality of Life

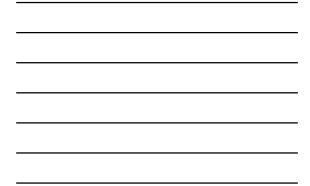
With permission, NYC DOT







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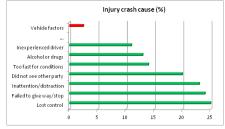




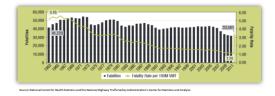
Traffic deaths to cyclists amount to 0.02% of all fatalities, or 551 out of more than 2.5 million (2010).

Putting things in perspective

Death from heart disease is 1085 times more likely. Death from respiratory disease is 251 times more likely. Death from stroke is 235 times more likely.



NZTA Crash Analysis System



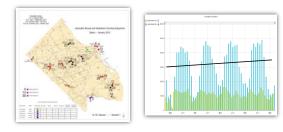
Two excerpts from CBS News' 1965 National Drivers' Test

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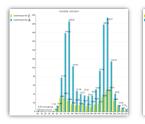
The dis-utility of driving - Malmö, Sweden



My partner parked the car Today Anna waks or cycles to work Built han't always been like this Only a year ago dhe doon to work meny fey but hen him something Aspennid
But charged her taxel roction. Annu- ard her partner John taxe like The robules or roles' campaign at Bosten Math's Spares. You could aim a block by whice a stray door at robules cou- tion. Anna doorst sumember what the meter on the campaigness study. But her partner. Johan's study Decome Spar- face. When a bast to be became Spars- face. You appear to be an out of the partner.
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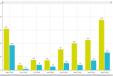
More at: bikearlington.com/dashboard



Average weekday trail volumes

Average weekend trail volumes







"Recovery" with / without plowing, 2014



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