

Why Transportation Policy Matters & the Route 9 Active Transportation Plan

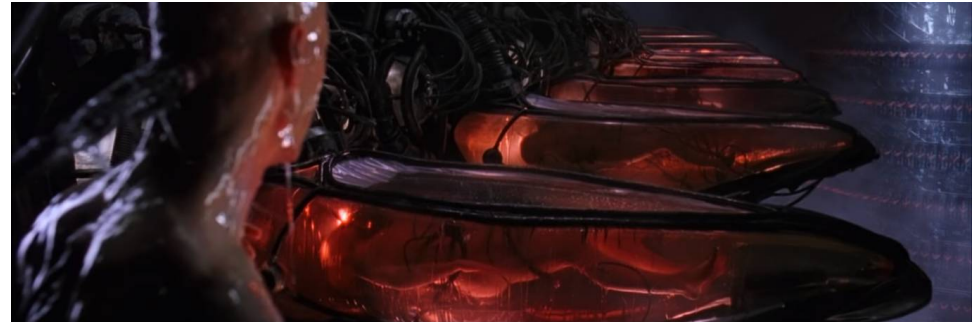
for Mr. Sherrin's City 2.0 class, Scarsdale High School

by Daniel Convissor, Director, Bike Tarrytown

January 30, 2019

Every Person
Needs Transportation
Every Day

Our Need for Transportation



How We Travel Really Matters

How We Travel *Really* Matters



Air Pollution

Tailpipe emissions

- carbon monoxide
- nitrogen oxides
- sulfur dioxide
- hydrocarbons
- benzene

30,000 premature deaths / yr

It's worse *inside* cars

How We Travel Really Matters



Water Pollution

Lubricants & Fuel

Tire & Brake Dust

Salt from snow removal

Heat from pavement

Surges of road runoff floods
rivers, overflows sewage plants

How We Travel Really Matters



Noise Pollution

Engines

Tires rolling

Potholes & Bumps

How We Travel Really Matters

Noise Pollution

Engines

Tires rolling

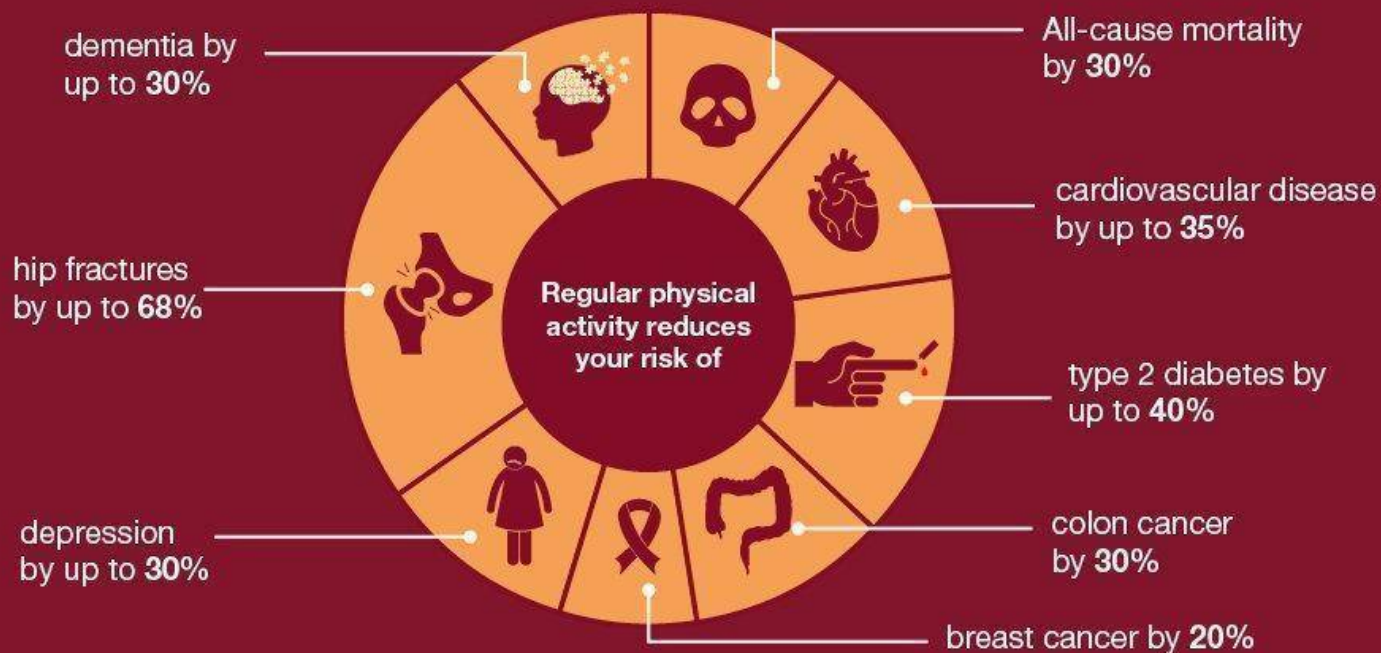
Potholes & Bumps

Recording: Tappan Zee Bridge
from 1.5 miles away



How We Travel Really Matters

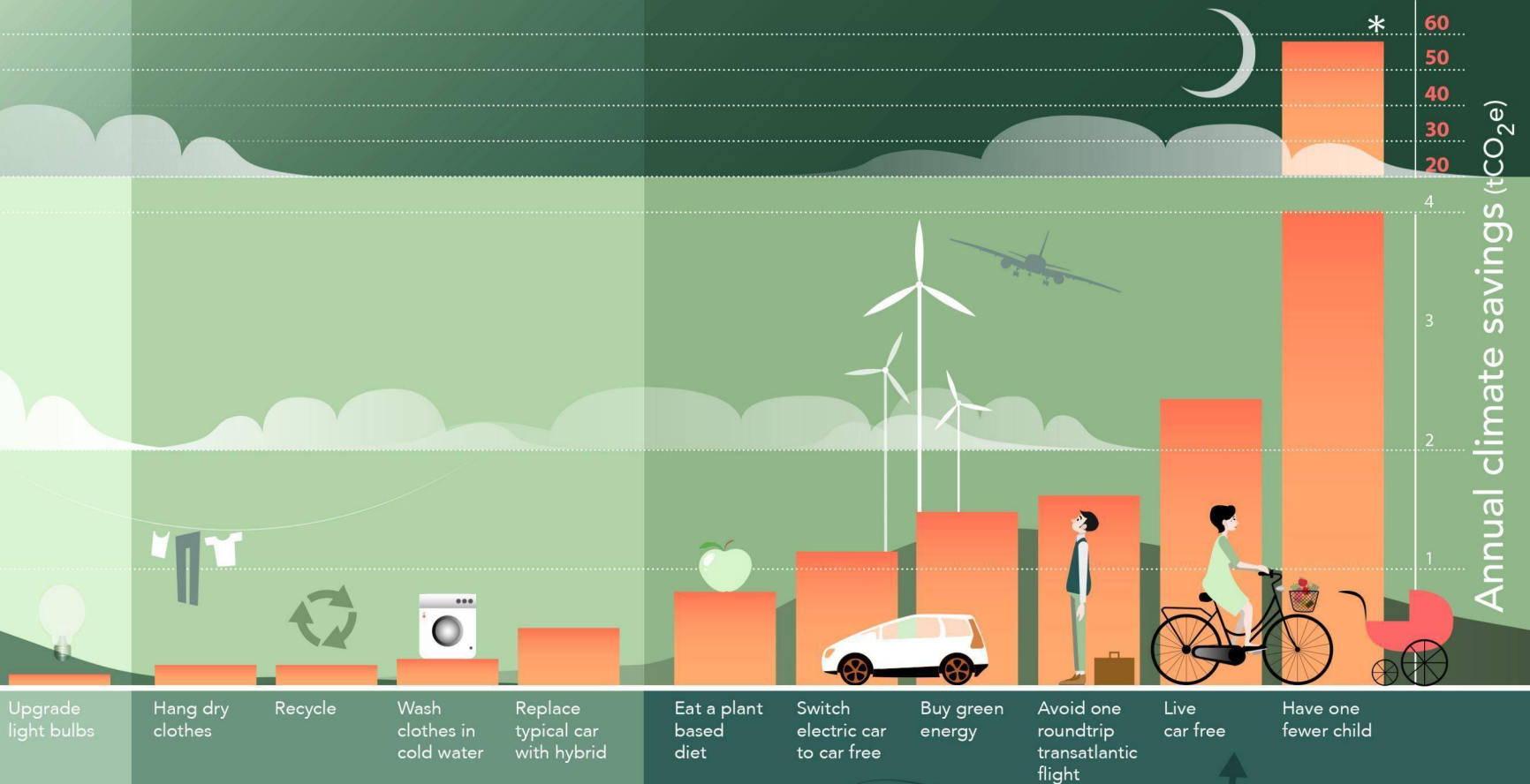
What are the health benefits of physical activity?



Personal choices to reduce your contribution to climate change

* Cumulative emissions from descendants; decreases substantially if national emissions decrease.

Average values for developed countries, based on current emissions.



Low Impact

< 0.2 tCO₂e

Moderate Impact

0.8-0.2 tCO₂e

High Impact

> 0.8 tCO₂e

How We Travel *Really* Matters



Expensive

Owning & operating a car costs
~\$8,500 per year

\$220 b for highway
construction & maint. in 2012

(AAA)
(USDOT, "2015 Conditions and Performance")

How We Travel Really Matters



Social Capital

Walking, cycling & transit gets us out in the world

Engage neighbors & strangers

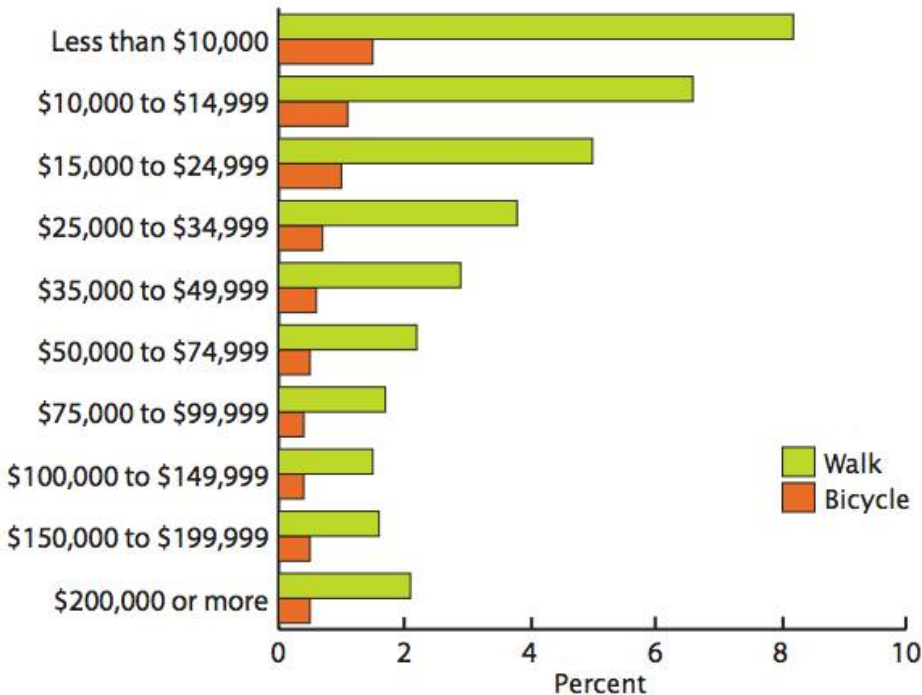
Increases trust and community participation

How We Travel Really Matters

Social Equity

Lower-income people
commute by bike & foot more

Safe infrastructure means
affordable access to more jobs



(Census Bureau, American Community Survey, 2008-2012)

How We Travel Really Matters



Independence

1/3 of people can't drive

- young
- old
- disabled
- poor

Give people freedom to travel

SAFE INFRASTRUCTURE MEANS MOBILITY FOR ALL

 BIKE TARRYTOWN



How We Travel Really Matters



Each Cyclist Spends More

<u>Shop</u>	<u>Bike</u>	<u>Car</u>
Convenience	\$82	\$69
Bars	\$82	\$41
Restaurants	\$48	\$40

Monthly spending.
(Clifton, et al, "Consumer Behavior and Travel Choices," TRB, 2013)

How We Travel Really Matters

	Age Groups										
Rank	<1	1-4	5-9	10-14	15-24	25-34	35-44	45-54	55-64	65+	All Ages
1	Unintentional Suffocation 1,023	Unintentional Drowning 425	Unintentional MV Traffic 384	Unintentional MV Traffic 455	Unintentional MV Traffic 7,037	Unintentional Poisoning 14,631	Unintentional Poisoning 13,278	Unintentional Poisoning 13,439	Unintentional Poisoning 9,438	Unintentional Fall 29,668	Unintentional Poisoning [drug overdose] 58,335
2	Homicide Unspecified 132	Unintentional MV Traffic 334	Unintentional Drowning 147	Suicide Suffocation 247	Unintentional Poisoning 4,007	Unintentional MV Traffic 7,010	Unintentional MV Traffic 5,075	Unintentional MV Traffic 5,536	Unintentional MV Traffic 5,397	Unintentional MV Traffic 7,429	Unintentional MV Traffic 38,748
3	Unintentional MV Traffic 88	Unintentional Suffocation 118	Unintentional Fire/burn 78	Suicide Firearm 160	Homicide Firearm 4,553	Homicide Firearm 4,510	Suicide Firearm 3,099	Suicide Firearm 3,873	Suicide Firearm 4,067	Suicide Firearm 5,756	Unintentional Fall 34,673
4	Homicide Other Spec., classifiable 63	Homicide Unspecified 114	Homicide Firearm 68	Unintentional Drowning 103	Suicide Firearm 2,683	Suicide Firearm 3,298	Homicide Firearm 2,555	Suicide Suffocation 2,112	Unintentional Fall 2,679	Unintentional Unspecified 5,021	Suicide Firearm 22,938
5	Undetermined Suffocation 60	Unintentional Fire/burn 107	Unintentional Suffocation 35	Homicide Firearm 95	Suicide Suffocation 2,100	Suicide Suffocation 2,643	Suicide Suffocation 2,199	Suicide Poisoning 1,736	Suicide Poisoning 1,538	Unintentional Suffocation 3,631	Homicide Firearm 14,415
6	Undetermined Unspecified 38	Unintentional Pedestrian, Other 82	Unintentional Other Land Transport 24	Unintentional Other Land Transport 64	Unintentional Drowning 530	Undetermined Poisoning 855	Suicide Poisoning 1,144	Homicide Firearm 1,420	Suicide Suffocation 1,474	Unintentional Poisoning 2,458	Suicide Suffocation 11,642
7	Unintentional Drowning 38	Homicide Firearm 64	Unintentional Pedestrian, Other 18	Unintentional Fire/burn 52	Suicide Poisoning 426	Suicide Poisoning 767	Undetermined Poisoning 788	Unintentional Fall 1,238	Unintentional Suffocation 792	Adverse Effects 2,028	Suicide Poisoning 6,698

(Leading Causes of Injury Death, United States, 2016. Source: WISQARS by the CDC)

So, uhh, what do we do about it?

Solutions



Most Trips Are Short

19% < 1 mile

34% < 2 miles

46% < 3 miles

54% < 4 miles

66% < 6 miles

(DRAFT: DO NOT CITE)
(Our tabulation of raw USDOT, 2017 National Household Travel Survey)

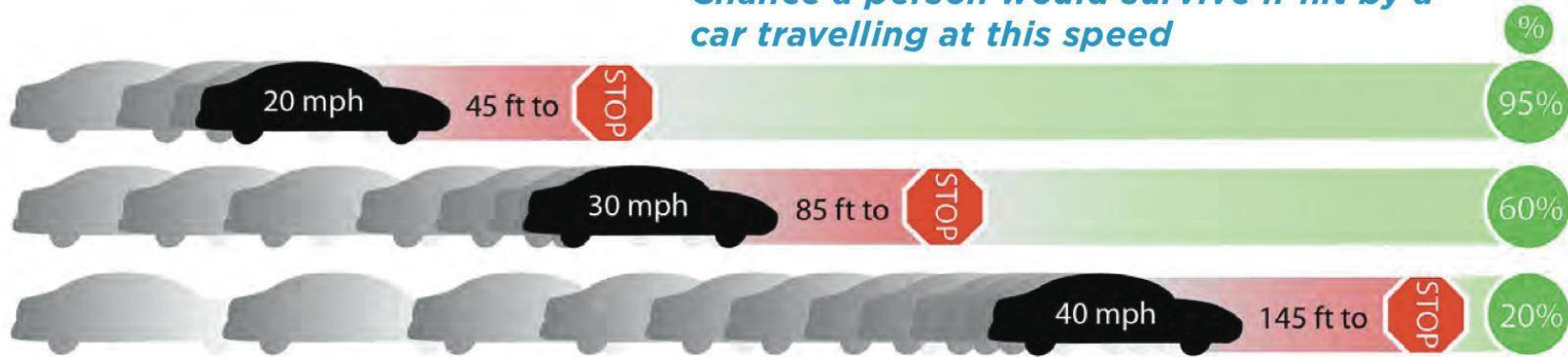
Solutions

Stop forcing people
to drive

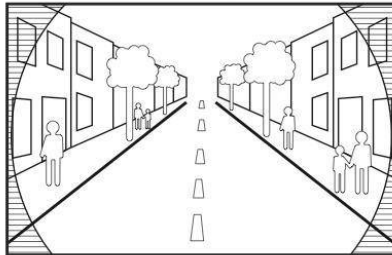


Solutions

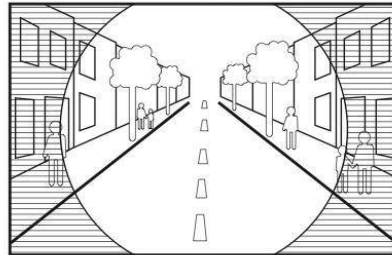
Chance a person would survive if hit by a car travelling at this speed



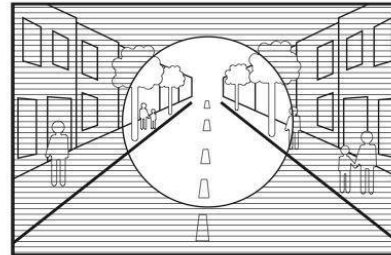
Tunnel Vision: as speed increases, peripheral vision decreases.



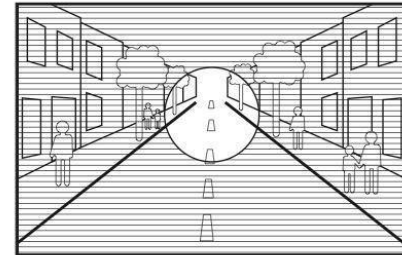
10-15 MPH



20-30 MPH



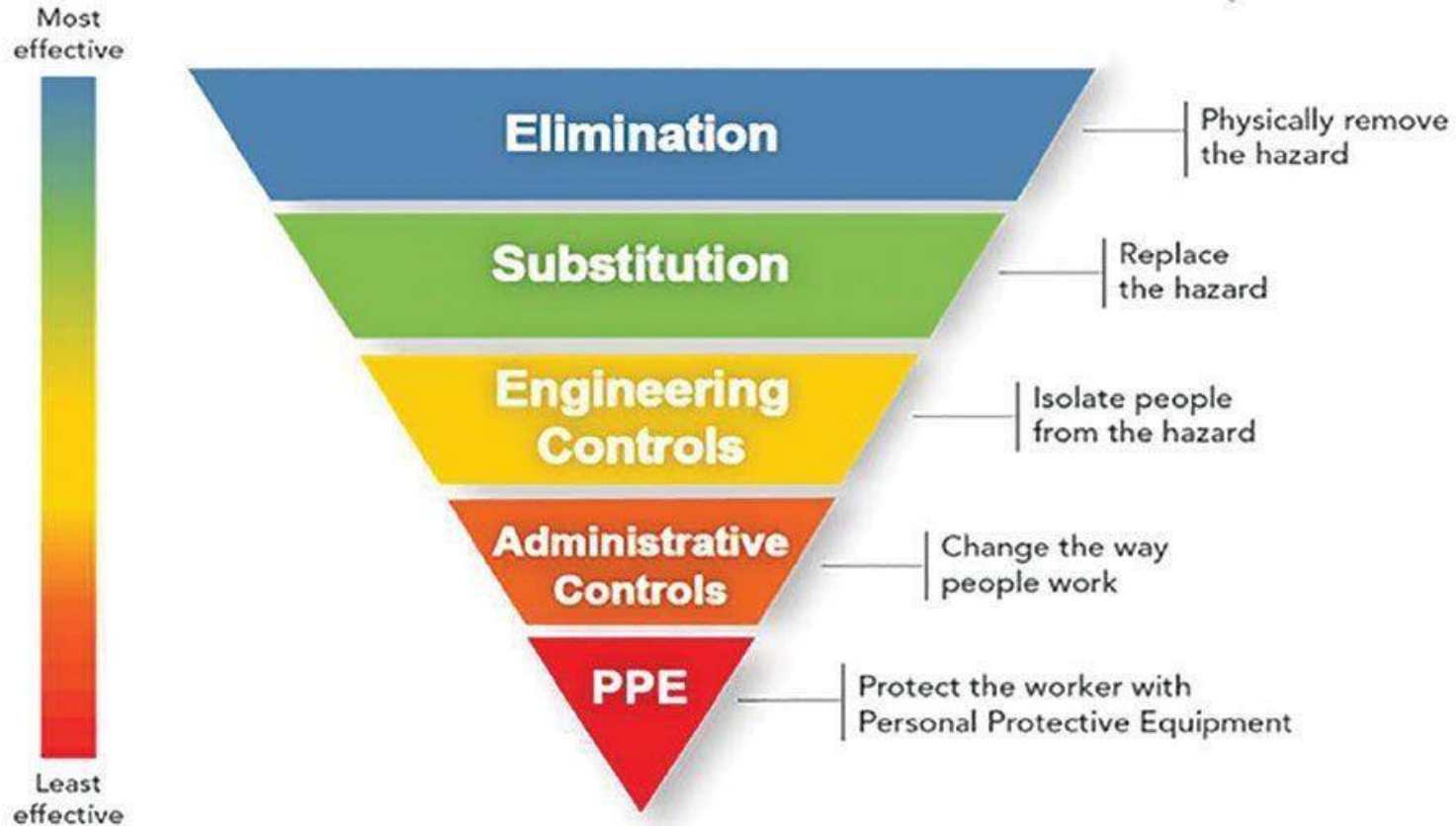
30-40 MPH



45+ MPH

(Complete Streets Chicago)

Solutions



Solutions

What
Would
Netherlands
Do?

Solutions



Solutions

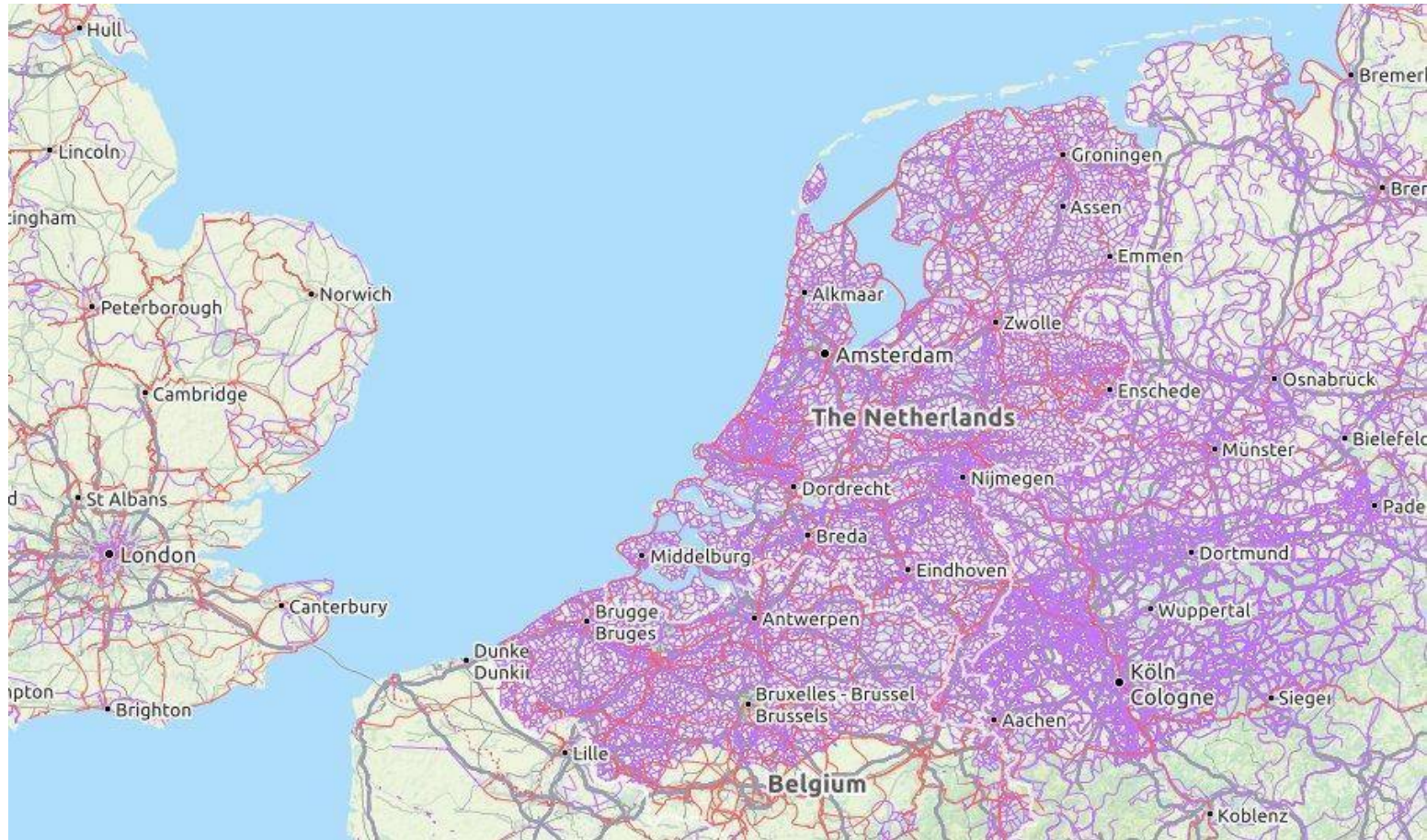


People who bike aren't a fixed number of constituents to be placated



We are an untapped resource to be cultivated

Solutions



The Route 9 Plan

The Route 9 Plan

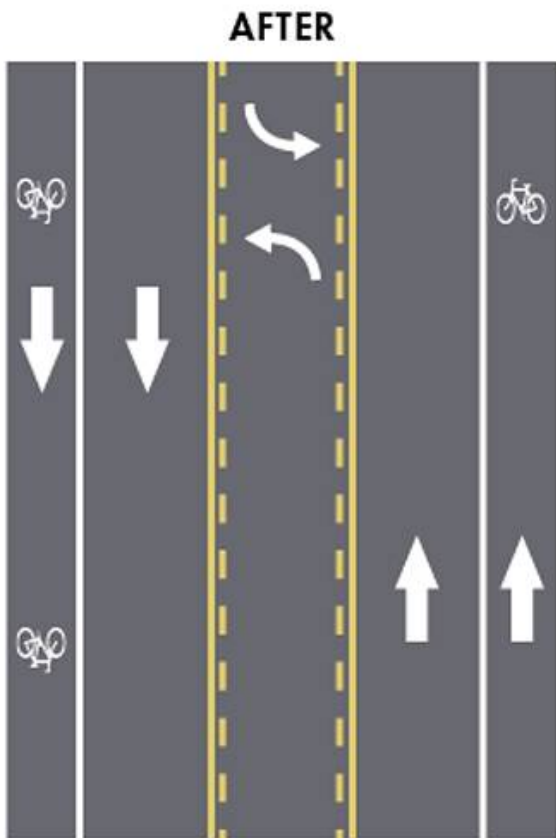
- Conceived 3 years ago by residents
- Sleepy Hollow - Hastings
- Make Rt. 9 safe to walk/bike on/across
- Steering Committee: 3 / village
- Grant from New NY Bridge (\$150k)
- Hired consultant (Nelson\Nygaard)
- 4 meetings for public input
- 2 public surveys
- Final report released November 2018



The Route 9 Plan



The Route 9 Plan

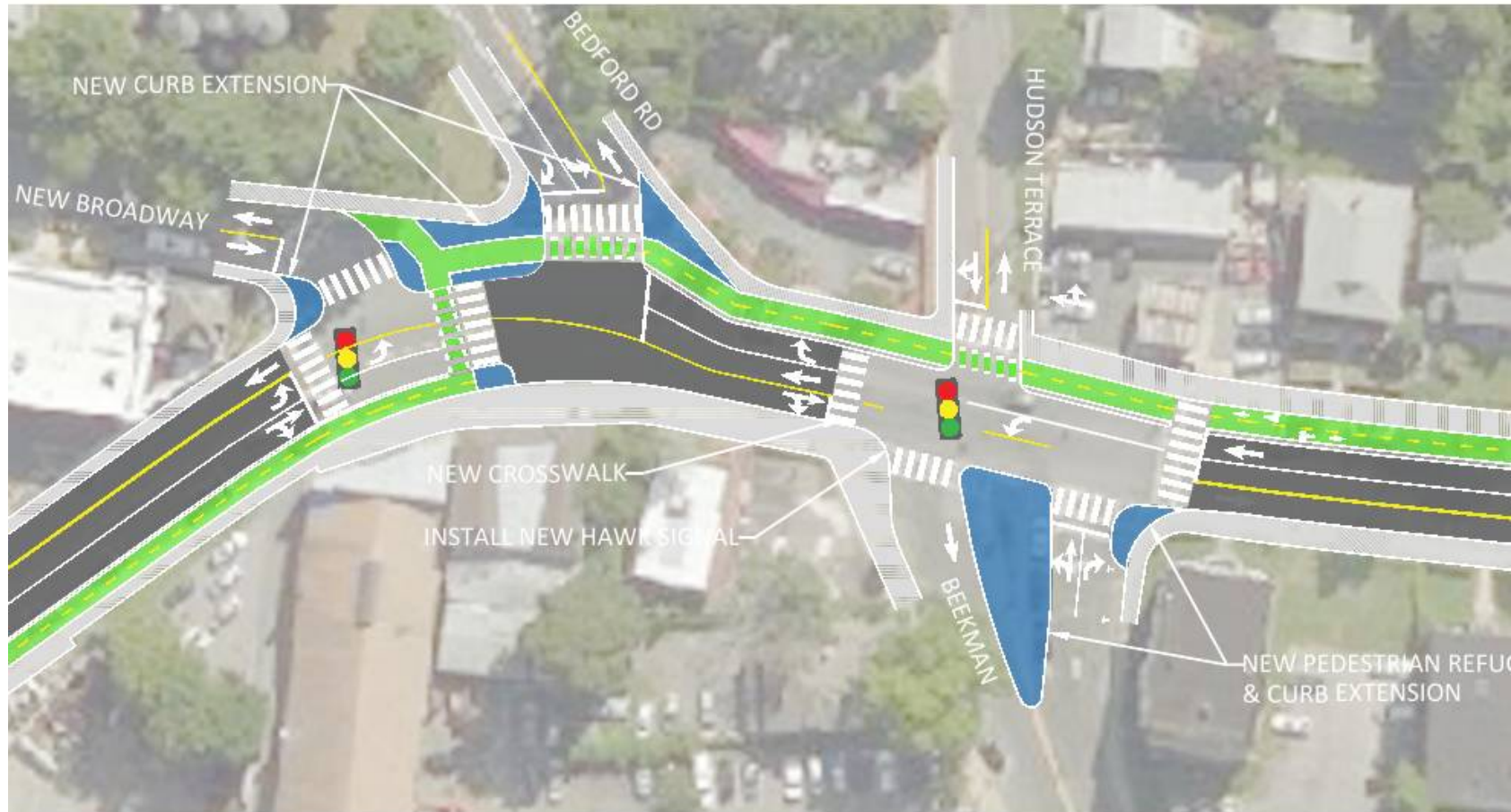


Hastings-on-Hudson Broadway / Main St / Farragut Ave



This proposal is part of what was developed by the community via the Route 9 Active Transportation Conceptual Design Plan

Sleepy Hollow Broadway / Beekman Ave / Bedford Rd



This proposal is part of what was developed by the community via the Route 9 Active Transportation Conceptual Design Plan

The Route 9 Plan



Broadway Crashes

870 people injured
42 seriously
1 killed

115 were walking & biking

Financial Impact: \$11,000,000

(Crash data: 2007-2016, Sleepy Hollow - Hastings-on-Hudson. Via NYSDOT ALIS)
(Average crash costs: National Safety Council, 2012)

People who drive aren't an ever growing constituency to be placated



Travel choices are shaped by public policy



BIKE TARRYTOWN