# Bolstering our Economy & Health

for the League of Women Voters of the Rivertowns by Daniel Convissor, Director, Bike Tarrytown November 27, 2018



# When we design places only for cars, they fail everyone, including drivers





# When we design multi-modal places, they help everyone, including drivers





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



#### Travel choices are shaped by public policy



## **Bikes Mean Business**



#### Merchants Support Bike Lanes

When bike lane was proposed "It would be devastating for businesses. If people can't park, it will put people off."

After bike lane was built "The road has become more vibrant with the increase in pedestrians and cyclists."





Cyclists Shop Locally

Shopping by car? Going to Route 119 is easier. (Sleepy Hollow Manor folks even go to Pleasantville!)

Shopping by bike? Going to downtown Tarrytown is easiest.



We're SOOO Close

21,000 people live in Tarrytown and Sleepy Hollow

All within 2 miles of downtown

Super easy biking distance

Often faster than driving/parking



**Disposable Income** 

Owning & operating a car costs \$10,000 / year

Families that forgo 2<sup>nd</sup> (and 1<sup>st</sup>) cars get to spend that money...

In local stores





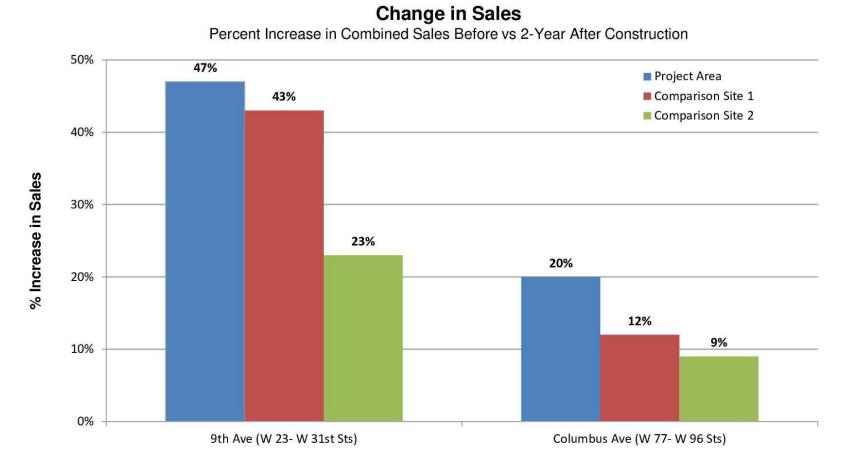
Each Cyclist Spends More

<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)



#### **Protected Bike Lanes Boost Business**



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#### **Commuter Customers**



Rockland ↔ Metro North

Nyack area residents will ride to Tarrytown Station via TZB path

People will shop in Tarrytown on the way home *if* we provide safe streets for them

If not, they'll go straight home

#### **Office Space Customers**



Active Transport Attracts Talent

Younger workers moving to cities so they don't have to drive

Companies following, leaving suburban offices vacant

Building a safe bike network will make living & working here more desirable



Route 9W

5,000 people on nice Sundays\*

Bridge will bring them here

- + new riders taking train home
- + attract Westchester riders too

(\* Police Chief, Piermont, NY, 2017)





#### **Disposable Income**

#### Many high earners

#### Bikes: \$1,000 - \$10,000





#### Family Fun

Confident cyclists are coming, no matter what

But families will come only if there's a protected bike lane

Visit from Nyack, Irvington, Dobbs Ferry, etc



Huge Return on Investment

Outer Banks, North Carolina

Built \$7m of bike infrastructure

Produces \$60m in bike tourism **per year** 

(Lawrie, et al, "Pathways to Prosperity," NCDOT, 2014)



## Protected Bike Lanes Help People Driving





**Unpleasant Passing** 

People driving nervous about hurting someone

People cycling scared of someone crashing into them





#### Stressful Cycling

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Don't *want* to hold up people driving

Have to

Often no room for passing



**Practicalities of Passing** 

Pack: shorter pass, person driving makes full lane change

Single File: longer pass, person driving straddles lanes

Uhhh... not *supposed* to pass double yellow line anyway



#### Road Rage

When unable to pass, some people driving get angry

- verbal abuse
- throw things
- menacing with vehicle
- assault

Degrades public safety and sense of community



Shorter Crosswalks

Safer for people walking

Takes less time to cross

So people driving wait less



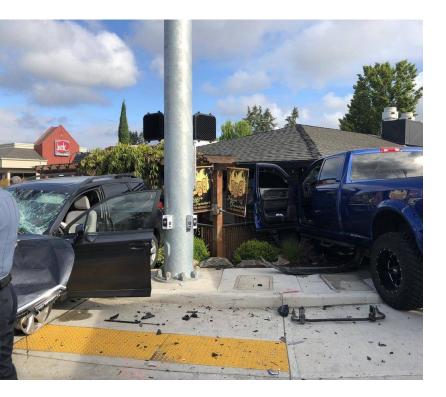


Sidewalk Sanctuary

People ride on sidewalks seeking safety away from cars

Providing protected bike lanes gets cyclists off sidewalks





But, Scofflaw Cyclists!

People cycling & driving run stop signs & signals at same rate\*

Law breaking bikers are annoying Law breaking drivers are deadly

Bike facilities boost compliance\*\*

(\* "The Myth of the Scofflaw Cyclist," Streets MN, 2017) (\*\* "Case Study, Dearborn St, Chicago," NACTO)





#### A Place for Everybody

Giving people a place to cycle means giving people places to drive and walk

- Smoother flow
- Safer
- Worry free
- Peaceful interactions

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**Can't Compete on Parking** 

Supermarkets & big boxes win

(Parking lots bigger than stores!)

If we tried to do this, makes:

- 1/2 of space into dead zones
- Streets filled with more traffic, fumes, noise, crashes



Compete on Experience

People drawn to lively places

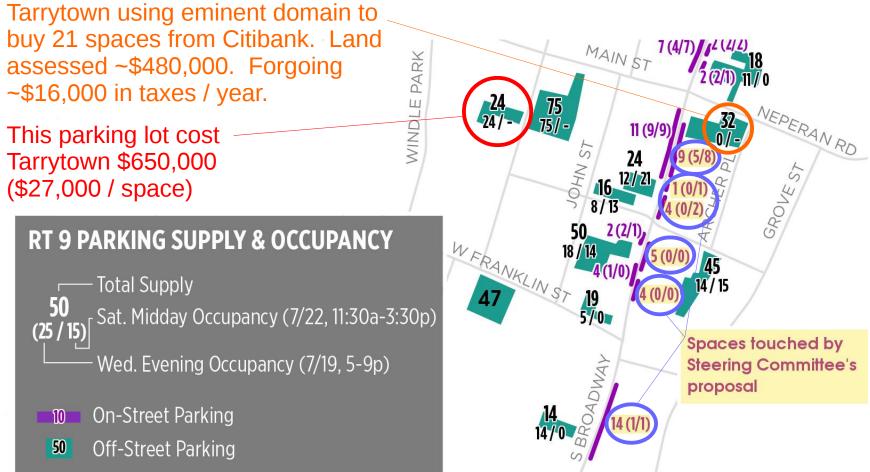
Do what it takes to get there

Policies can make walking, cycling, bus, train the easiest way

Making the place even nicer







Data & Map: Route 9 Active Transportation Conceptual Design Plan. Clarifications: Bike Tarrytown.

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Low Cost of High Wheeled Joys

Compare \$650,000 for 24 car parking spaces to:

\$4,000

**Turning 3 parking spaces** 

Into 30 parking spaces



#### PARK Smart New Rates More Parking **NOON** TO **4PM** Use quarters or **NYC Parking Cards** (buy at local merchants or nyc.gov/dot) Dial 317 or visit nyc.gov/dot for more inf

Proper Pricing = More Parking

Paltry Present:

- \$1 / hr @ curb & lots
- Free: 6p 9a & Sundays & permit holders
- Precious resource given away, squatted on

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• Popular places perpetually parked up

#### Prodigious Possibility:

- \$1 / hr @ lots, \$2 / hr @ curb in core
- Everyone pays 9a midnight
- Popular places have open spaces



**Guidance System** 

Loads of spots sit empty

Trick is finding them

Show people where to go

Park right away

## Externalities





### **Social Capital**

Cycling gets us out in the world

#### Engage friends & neighbors

Increases trust and community participation

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## Independence

### 1/3 of people can't drive

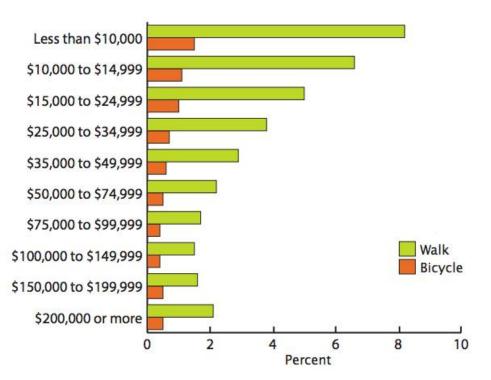
- young
- old
- disabled
- poor

## Give people freedom to travel

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Be parents, not chauffeurs





## Equity

# Lower-income people commute by bike & foot more

# Safe infrastructure means affordable access to more jobs

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





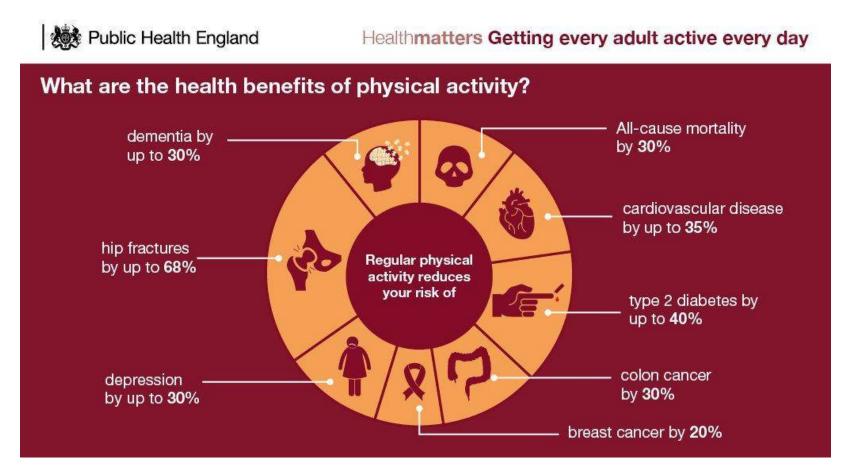
#### **Property Values**

Within 150' of bike path: +4%

Proximity to safe bicycle network
Single family homes: +1 - 2%
Multi family homes: +6 - 8%

(Racca & Dhanju, "Property Value/Desirability Effects of Bike Paths Adjacent to Residential Areas," 2006) (Wei Shi, "Impact of Bike Facilities on Residential Property Prices," 2017)





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## Pollution

### Tailpipe emissions

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

#### 30,000 premature deaths / yr

#### It's worse *inside* cars

**PM10** 



Our roads need fewer not just cleaner cars. Walk and cycle for shorter trips.

## 60% of air pollutant PM10 comes from road transport\*

\*The Department for Environment, Food and Rural Affairs, 2018



#WorldCarFreeDay

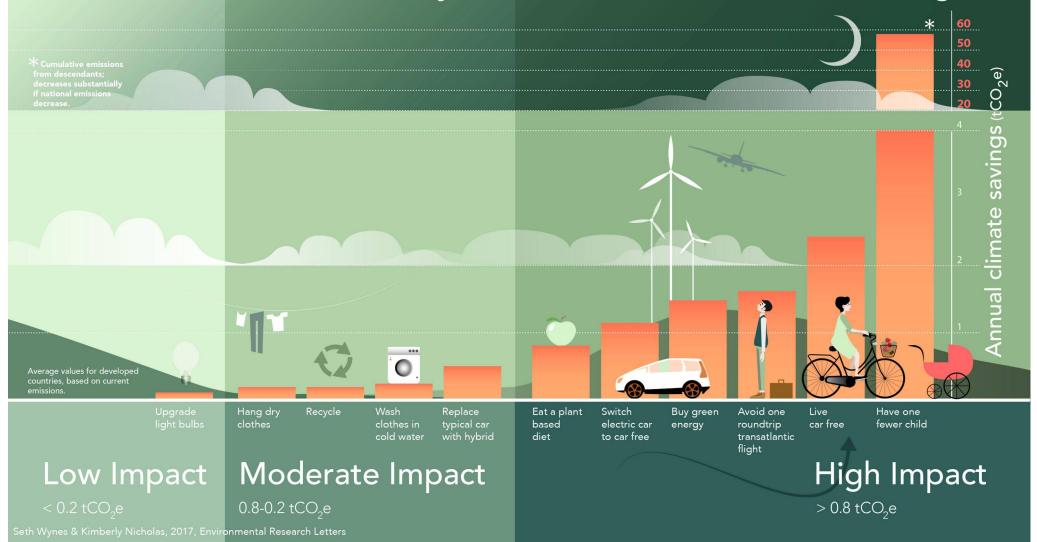
45% from tyre and brake wear

15% of which is from

car exhausts



#### Personal choices to reduce your contribution to climate change





**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)

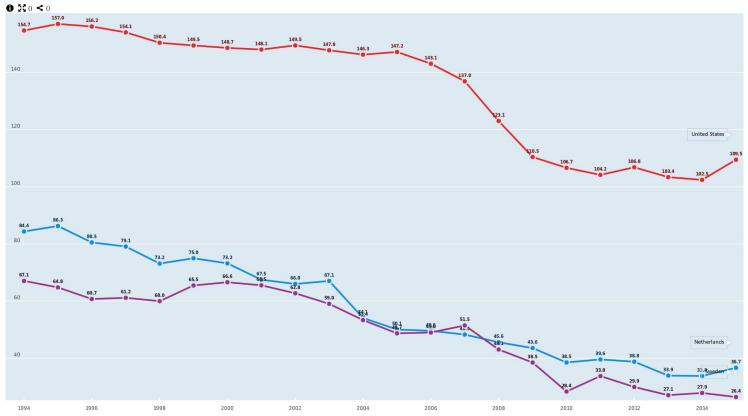


	Age Groups										
Rank	<1	1-4	5-9	10-14	15-24	25-34	35-44	45-54	55-64	65+	All Ages
1	Unintentional Suffocation 1,023	Unintentional Drowning 425	Unintentional MV Traffic 384	Unintentional MV Traffic 455	Unintentional MV Traffic 7,037	Unintentional Poisoning 14,631	Unintentional Poisoning 13,278	Unintentional 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 4,997	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)

#### Road accidents (//data.oecd.org/transport/road-accidents.htm)

Deaths, Per 1 000 000 inhabitants, 1994 – 2015



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# What Would Netherlands Do?



# What Would Netherlands Do?





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# What Would Netherlands Do?





# The Plan





# The 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

#### 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



North Broadway (US Rt 9) at Pierson Ave, Sleepy Hollow, NY YELLOW LETTERING = PROPOSALS BY NEW YORK STATE DEPARTMENT OF TRANSPORTATION, 4/26/17

PROPOSALS, BELOW, BY BIKE TARRYTOWN, 10/23/18

MAROON = NEW PAINT: ONE VEHICLE LANE EACH DIRECTION.

(CAPACITY IS ~25,000/DAY. CURRENT PEAK VOLUME IS 15-20,000/DAY DURING HALLOWEEN.) PURPLE = NEW CURB EXTENSIONS / REFUGES: REDUCES SPEEDING, SHRINKS DANGER ZONES FOR WALKERS GREEN = NEW PROTECTED 2-WAY BICYCLE LANE: SAFE SPACE FOR PEOPLE OF ALL AGES & ABILITIES TO RIDE



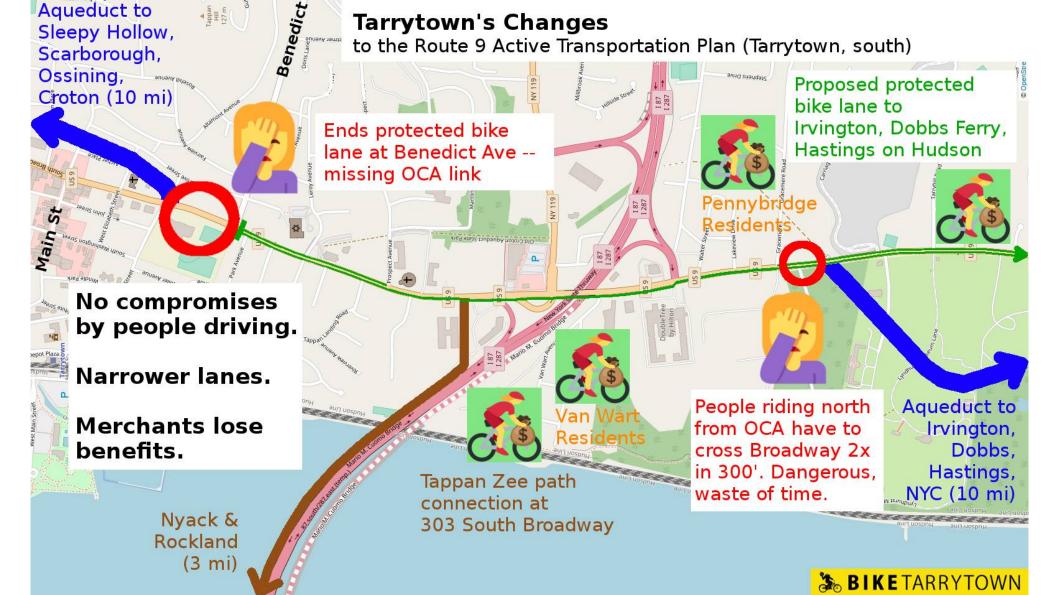
#### Sleepy Hollow Broadway / Pierson Ave / Gordon Ave



This proposal is part of what was developed by the community via the Route 9 Active Transportation Conceptual Design Plan [Note: needs refinement to add turn pocket & ensure safe speeds]

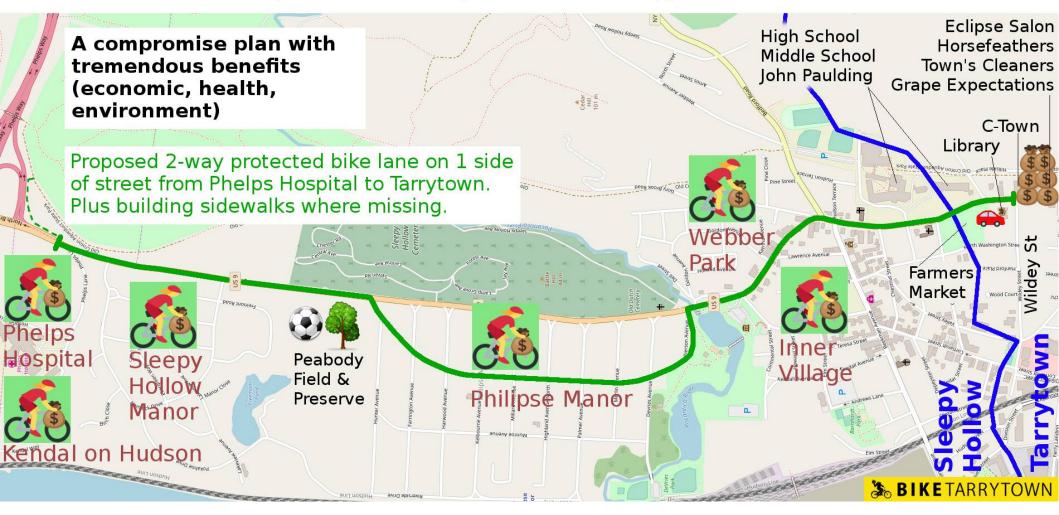






#### **Study's Steering Committee Recommendations**

for the Route 9 Active Transportation Plan (Tarrytown, north & Sleepy Hollow)



#### **Tarrytown's Changes**

to the Route 9 Active Transportation Plan (Tarrytown, north & Sleepy Hollow)



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



We are an untapped resource to be cultivated

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