

East Coast Greenway

Southeast Greenways & Trails Summit April 3 • #GreenwaySummit











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Thank you, Southeast Greenways & Trails

Summit sponsors





counter







CARPLINA THREAD TRAIL





Using Greenways to Combat Climate Change

Sarah Sanford

East Coast Greenway Alliance



Using Greenways to Combat Climate Change

Sarah Sanford East Coast Greenway Alliance

















hitting 100 degrees in October

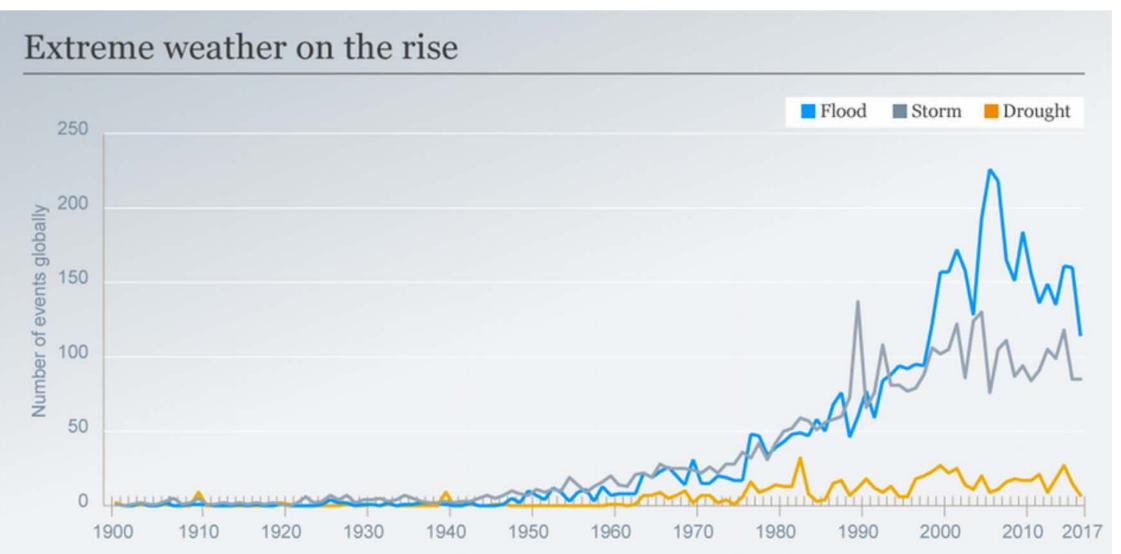


Capital Weather Gang

At least three dead, thousands without power after historic snowstorm in North Carolina



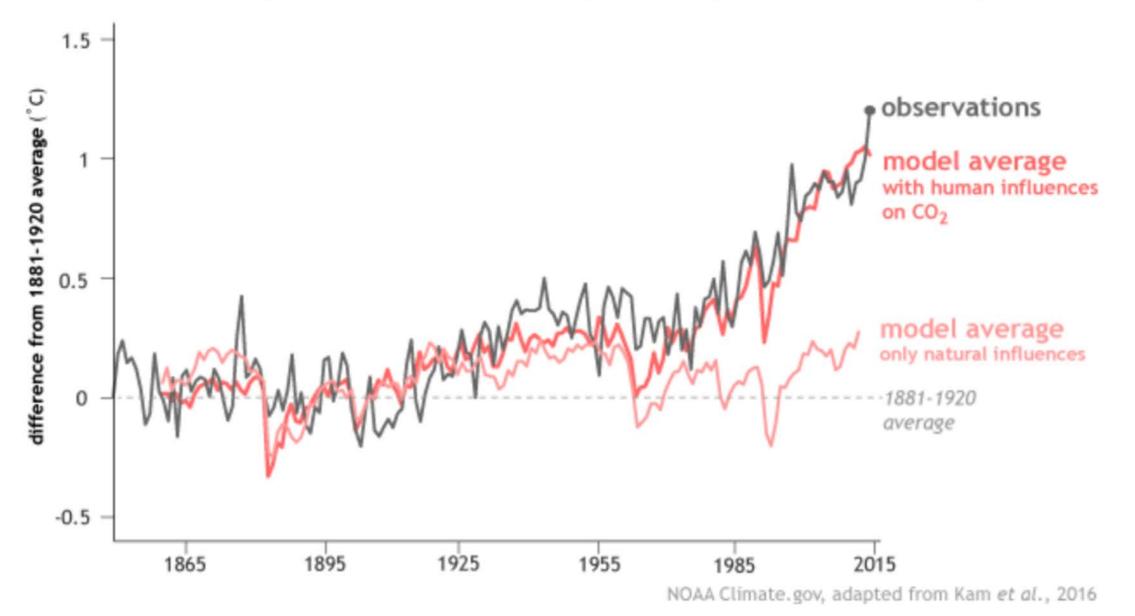


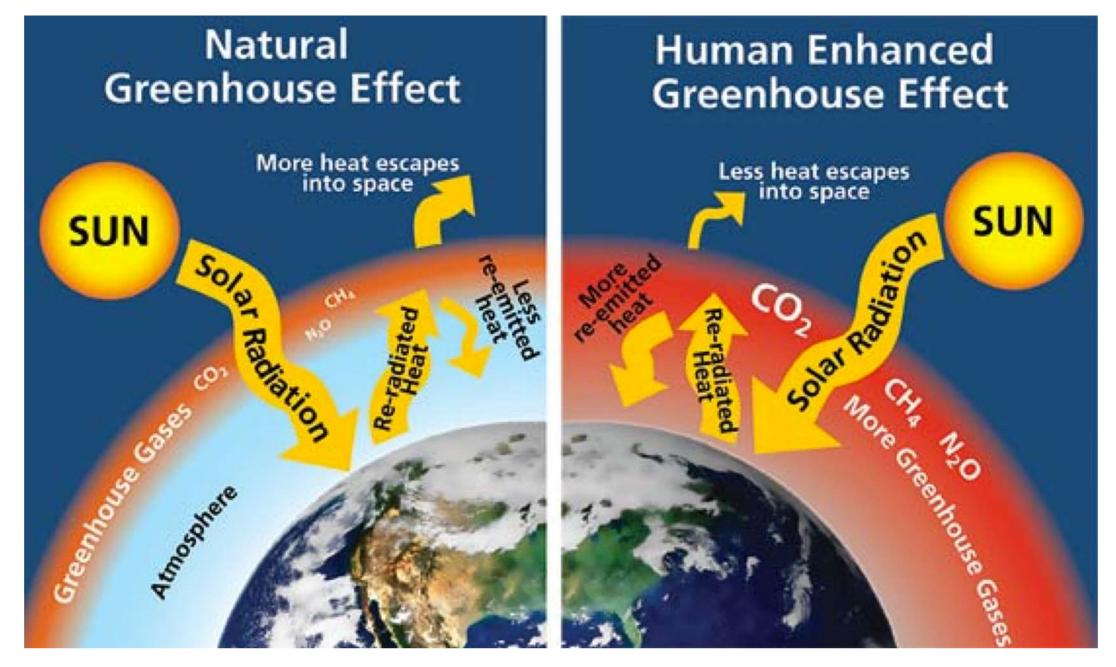


Source: The Emergency Events Database (EM-DAT) | www.emdat.be



2015's extreme global heat can't be explained by natural variability alone



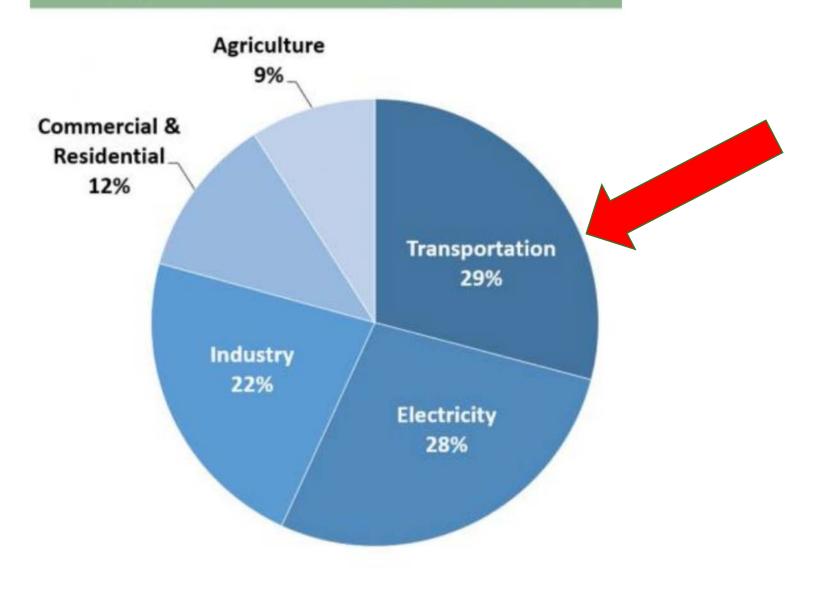




Climate change contributes to increases in the severity, frequency, and duration of extreme weather events.

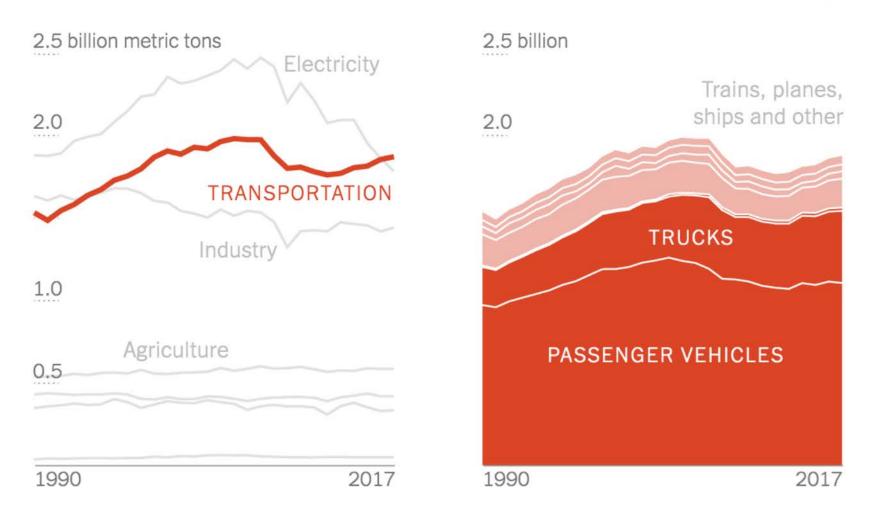


Total U.S. Greenhouse Gas Emissions by Economic Sector in 2017





In 2017, **transportation** was the top source of greenhouse gases.



The vast majority of those

emissions came from driving.

Charts show the carbon dioxide equivalent of greenhouse gas emissions. Source: <u>Environmental Protection Agency</u>



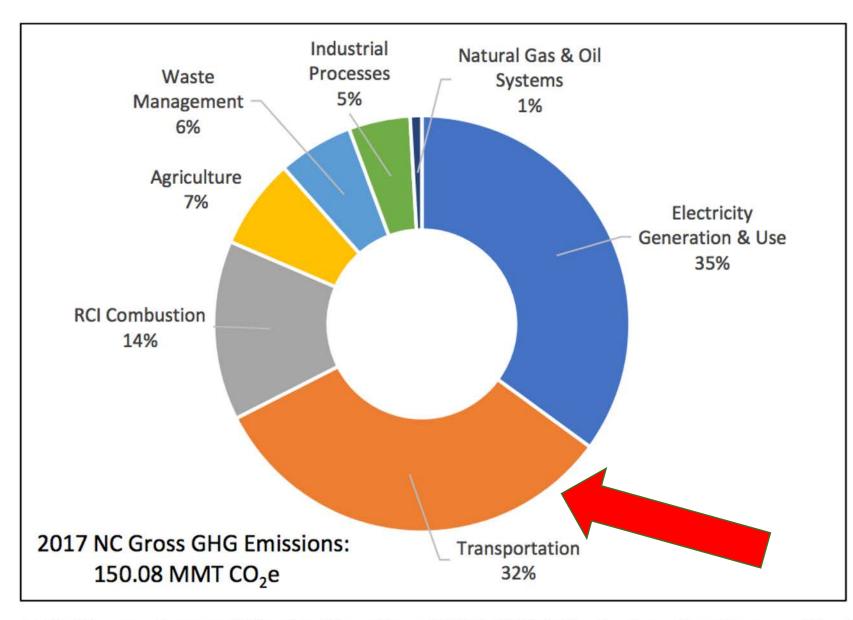


Figure 2-2: Percentage of North Carolina 2017 GHG Emissions by Source Sector



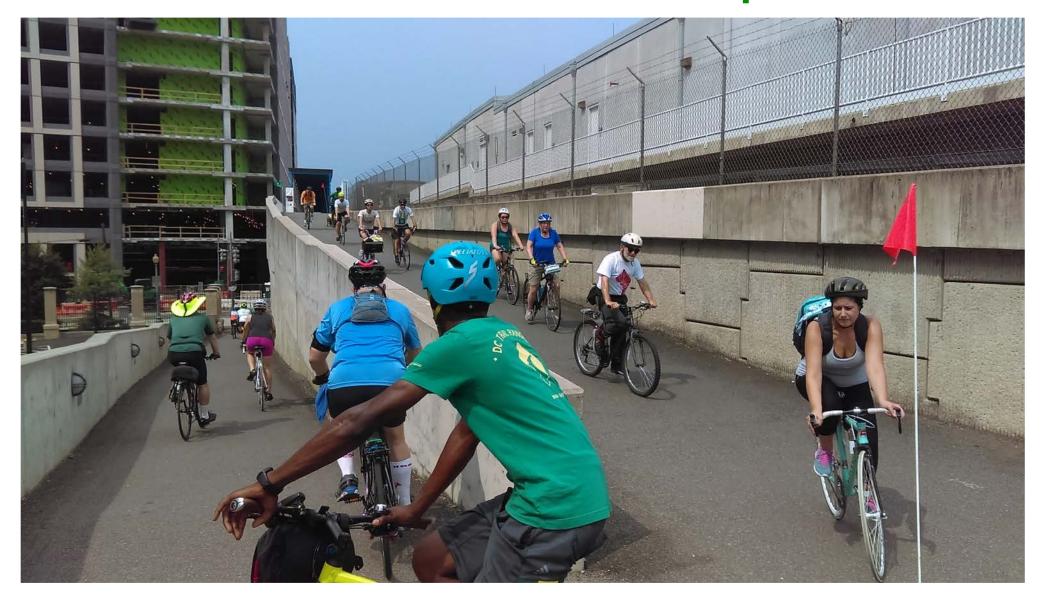
NCDOT Average Annual Storm Costs

2014 - 2016: \$65M

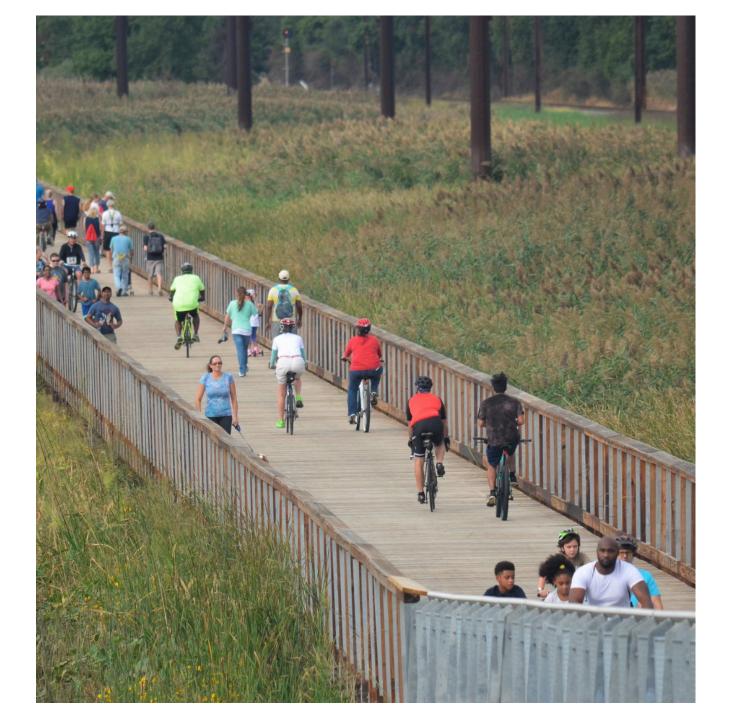
2017 - Present: over \$222M



solution: clean forms of transportation



Greenways





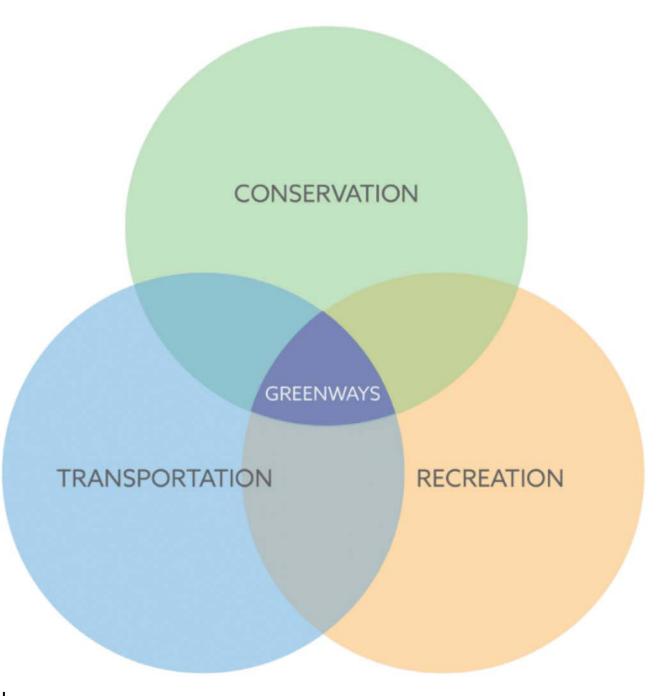


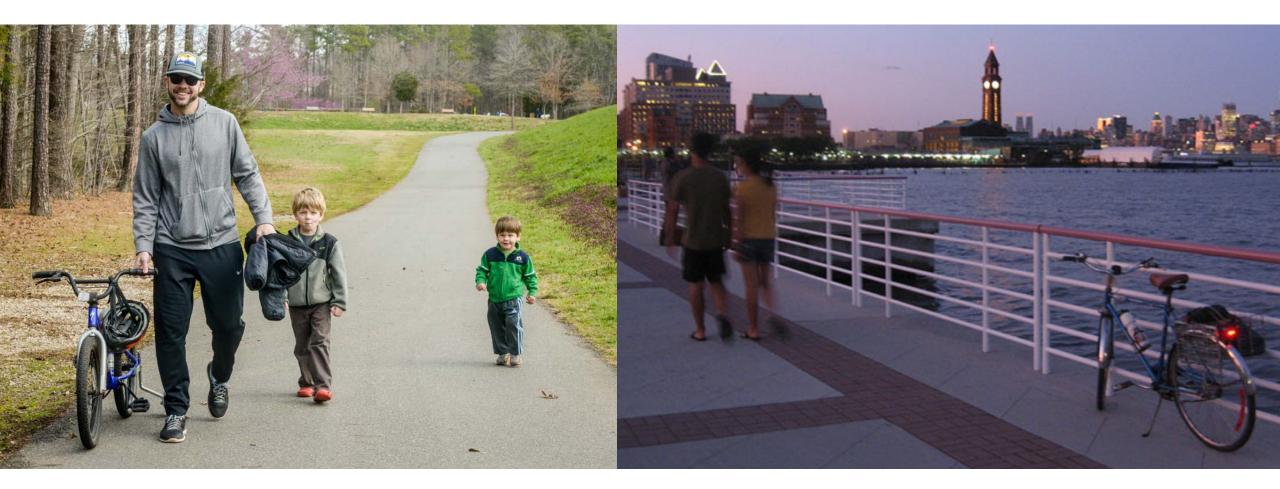


Image: NJ Greenways Guidebook



The East Coast Greenway is a walking and biking route stretching 3,000 miles from Maine to Florida.





We connect urban and rural, north and south, along the most populated corridor of the United States.



In 2019, we reached almost 1,000 miles of traffic-protected trail.



East Coast Greenway by the numbers:





THE IMPACT OF GREENWAYS in the TRIANGLE

How the East Coast Greenway Benefits the Health and Economy of North Carolina's Triangle Region

PREPARED BY:



alta



Transportation & Access Benefits



1,402,000 Annual Fewer Miles Traveled by Car



Transportation & Access Benefits



1,402,000 Annual Fewer Miles Traveled by Car

Results in:

\$799,000 Annual Reduction in Household Vehicle Costs

\$702,000 Annual Reduction in Collision-Related Costs

\$98,000 Annual Reduction in Congestion-Related Costs





Health & Environmental Benefits



11,225,000 Miles Biked Per Year

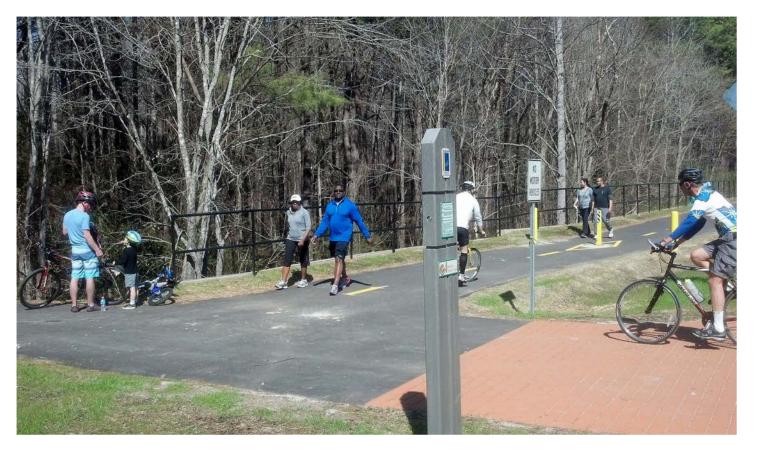
7,407,000 Miles Walked Per Year

3,592,000 Annual Hours of Physical Activity





Health & Environmental Benefits



11,225,000 Miles Biked Per Year

7,407,000 Miles Walked Per Year

3,592,000 Annual Hours of Physical Activity

Results in:

\$1,457,000 Annual Healthcare Cost Savings

1,141,000 lbs. Annual Reduction in CO2 Emissions









Greenway.

About States Trips

News

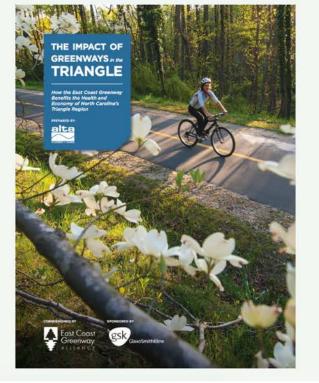
Events

Support

Impact of East Coast Greenway in NC's Triangle region

In 2017, the East Coast Greenway Alliance commissioned a study to put numbers on what we know to be true: Greenways are good for economic growth. Prepared by Alta Planning + Design and sponsored by GSK, the report finds that the East Coast Greenway generates \$90 million in total benefits annually for the Triangle region, from gains in health and the environment to transportation and access benefits, economic gains, and increased property values.

Download impact report







Why greenways?

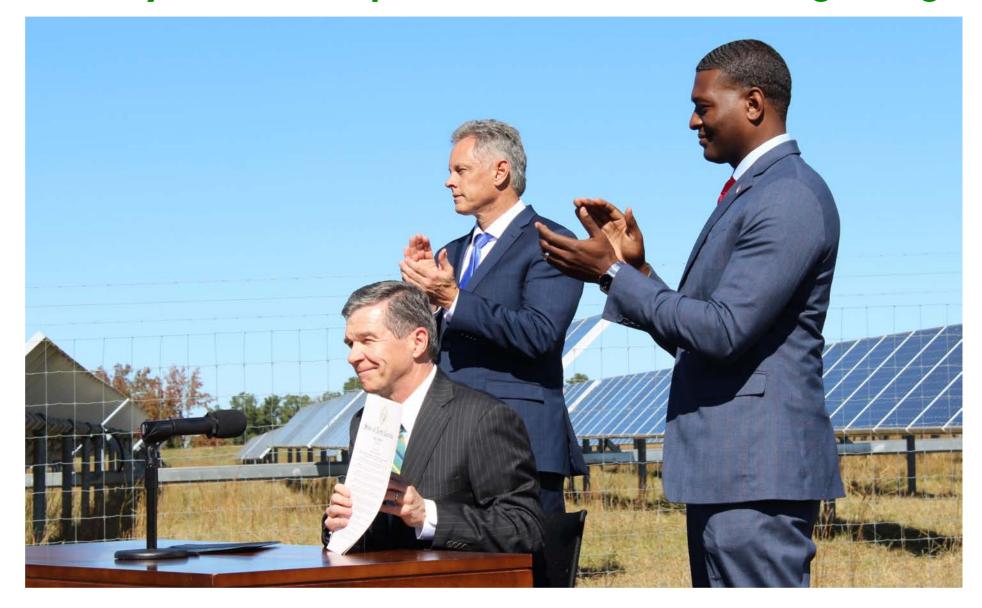
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Greenways are resilient.





Greenways can be part of climate change legislation.





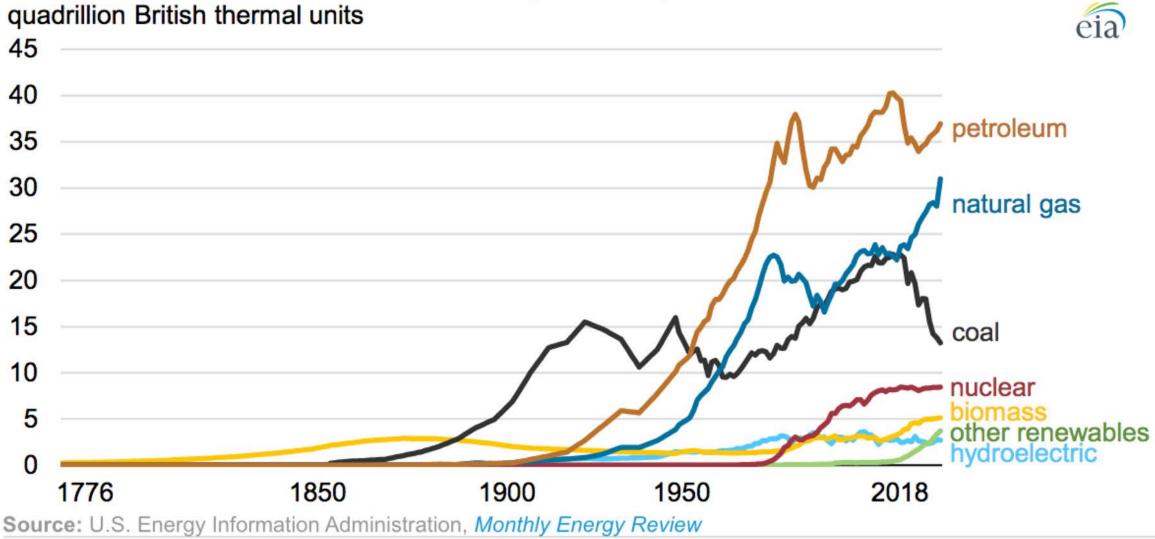


Executive Order 80

- 3 main directives:
- Reduce statewide GHG's
- Increase ZEV's
- Reduce energy consumption in state buildings



Energy consumption in the United States (1776-2018)





Barriers to Using Greenways

Bike/ped infrastructure needs to be...

Safe Connected

Convenient



1. Safety



AVERAGE NUMBER OF BICYCLISTS AND PEDESTRIANS KILLED EACH YEAR IN NORTH CAROLINA

[169 PEDESTRIANS AND 24 BICYCLISTS]²⁷



1. Safety

SHARED USE PATHS (LIKE THE ECG) REDUCE INJURY RATES FOR CYCLISTS, PEDESTRIANS, AND OTHER NONMOTORIZED MODES BY 60% COMPARED WITH ON STREET FACILITIES ²⁸

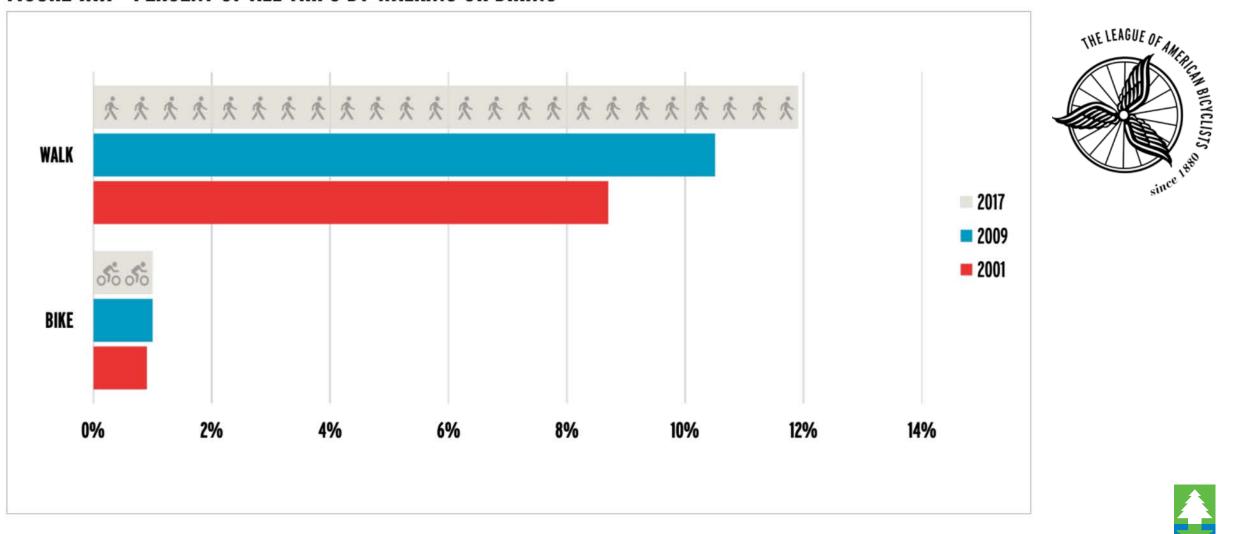
60%



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FIGURE 1.1.1 - PERCENT OF ALL TRIPS BY WALKING OR BIKING



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GEOGRAPHY	% OF COMMMUTERS WHO BIKE	CHANGE 2006-17	CHANGE 2011-17
NORTH CAROLINA	0.22%	-13%	-3%







2. Connectivity





2. Connectivity





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3. Convenience





AVERAGE COST OF OPERATING A BIKE PER YEAR³⁰





Bike/ped infrastructure needs to be...

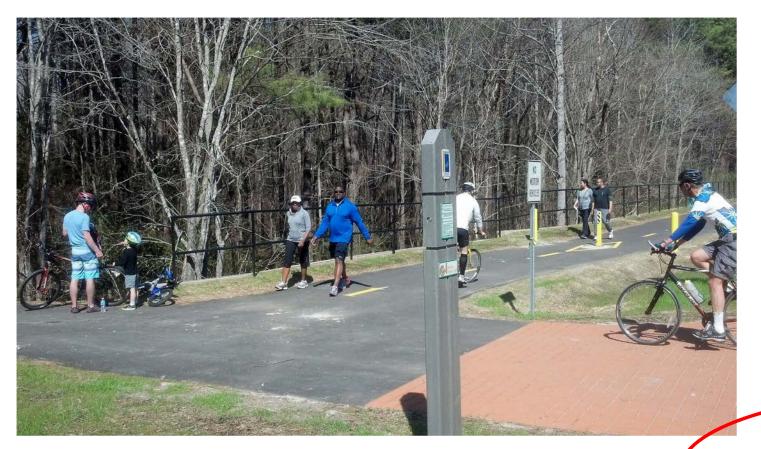
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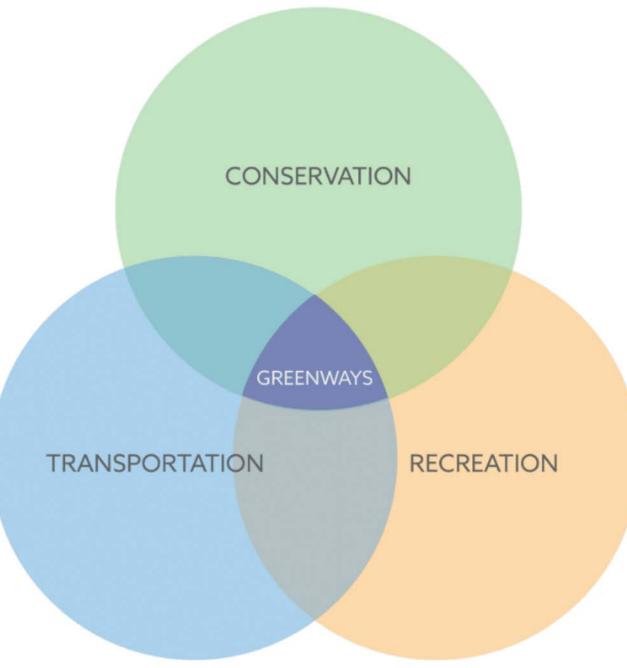




Image: NJ Greenways Guidebook

Questions?

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