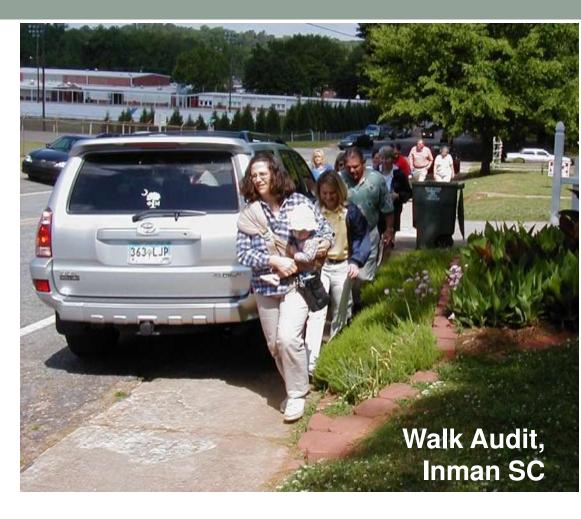
Engineering Active Transportation **Back Into SC** Communities: From Pilotsto-Policy.







Mark Fenton Tufts University rmfenton777@gmail.com



My admittedly unique perspective . . .





Thought Quiz: Youthful recollections

Recall some of your earliest fond recollections of being physically active as a young child (i.e. not HS sports).





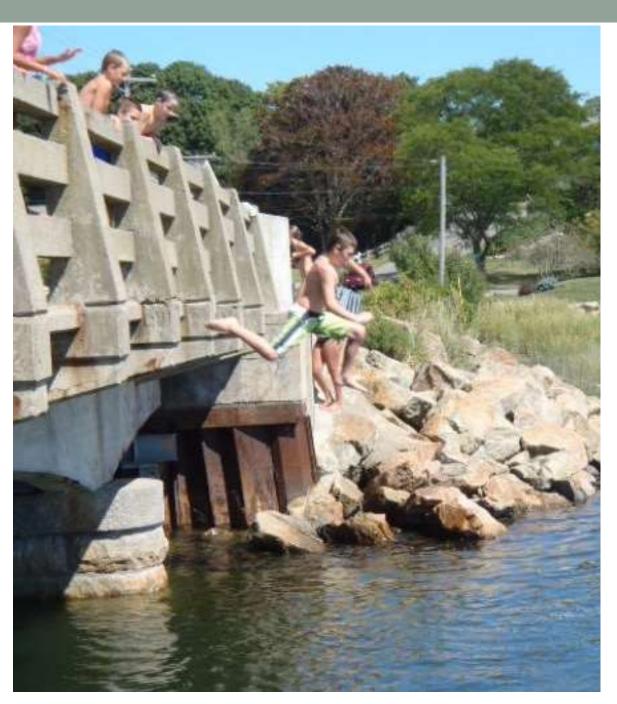
When you were young, did you . . .



OR



- Play, explore outdoors without adult supervision?
- Walk or bike to school, a park, a friend's, downtown?
- Play games with no formal uniform, umpire, or referee?
- Spend time with kids of different ages, both boys and girls?
- Play in water: ocean, lake, river, pond, creek, pool, fire hydrant?
- Have a wheeled vehicle: bike, scooter, big wheel, skateboard, skates?
- Do stuff you could not have gotten away with if adults were present?

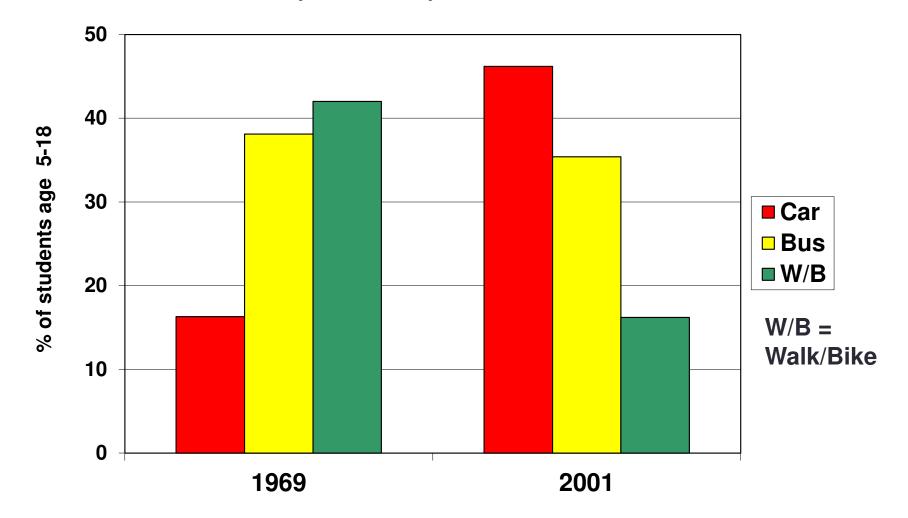


- 1. Were you a "free range kid?"
- 2. Do you think most children today are?
- 3. Do you think it's good for them?

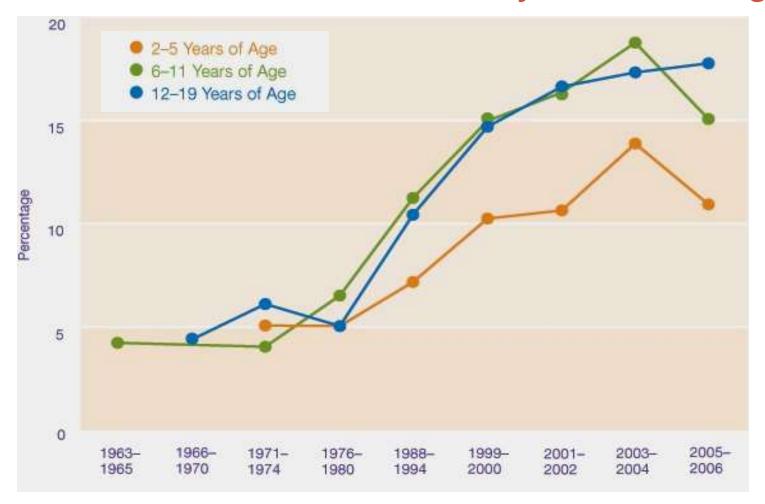
Scituate MA

Changes in Walking & Cycling to School, 1969 to 2001

Ham et.al., Jour. of Physical Activity & Health, 2008, 5, 205-215



Trends in Childhood Obesity & Overweight

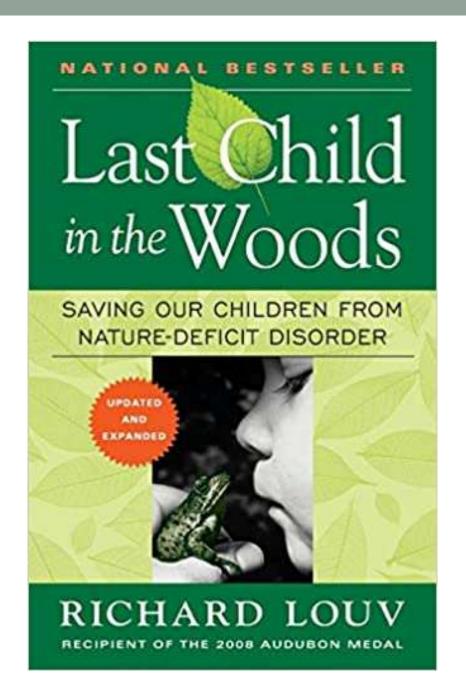


CDC, National Center for Health Statistics. *National Health Examination Surveys (NHANES) 1963–2006.*

www.rwjf.org/files/publications/annual/2008/year-in-review/



Lenore Skenazy www.freerangekids.com



The real risk . . .



Pilots-to-Policy:

- 1. The health call for "stickier" communities.
- 2. Big policy goals.
- 3. Making the "economic argument."
- 4. I2Audits to engage; demos to build support.
- 5. Where to focus?
- 6. Your call to action.





1. We should be physically active.







Adults > 30 min/day; Youth > 60 min/day







This counts!

But mostly we are not.



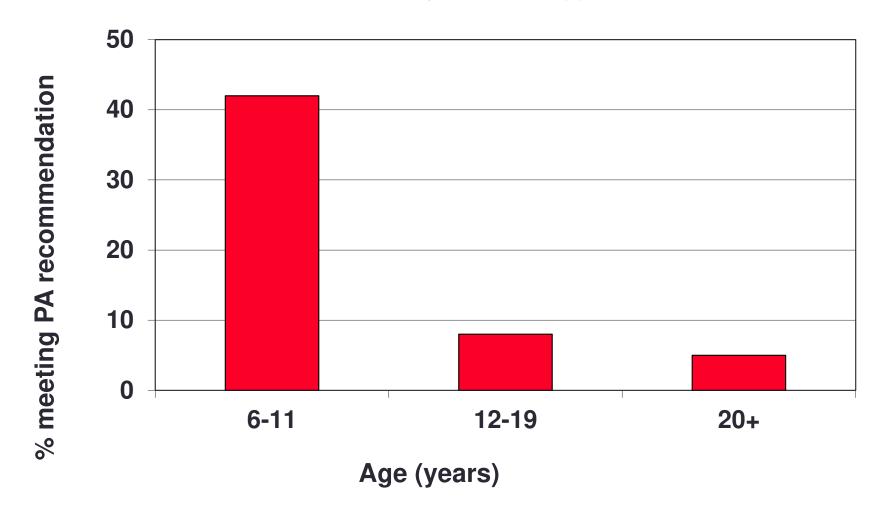






Physical Activity in the US Measured by Accelerometer

Troiano et.al., Med Sci Sports & Ex, 40(1), 2008.



Education & encouragement is not enough.



AARP health walk

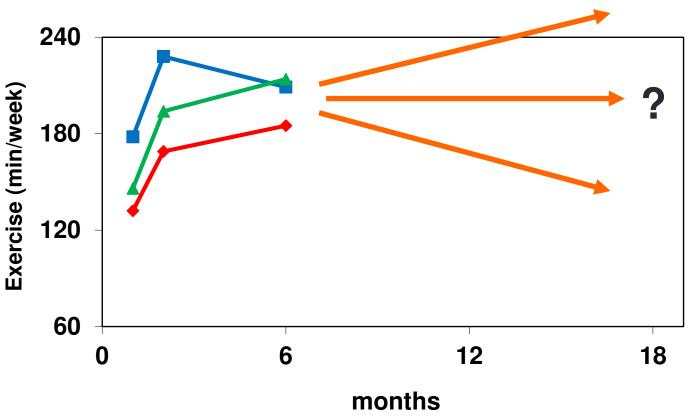




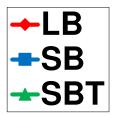
Exercise Participation

Effect of Short Bouts, Home Treadmills

Jakicic et.al., J. Amer. Med. Assoc., 282, 16



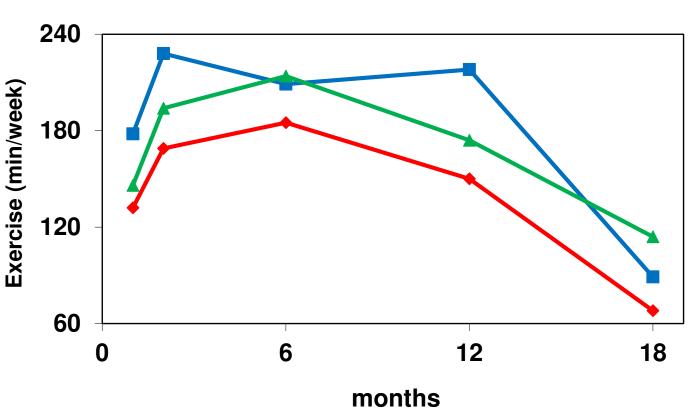




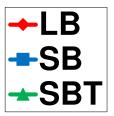
Exercise Participation

Effect of Short Bouts, Home Treadmills

Jakicic et.al., J. Amer. Med. Assoc., 282, 16







Social Ecology



Physical Activity & Behavioral Medicine, Sallis & Owew.

Individual

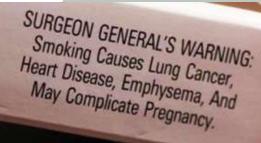
Group



Institutional

Community

Policy





Social Ecology



Individual

Physical Activity & Behavioral Medicine, Sallis & Owen.



Group

Institutional

Community



Policy



Physically Active Routes to Everyday Destinations

STEP IT UP!

Surgeon General's Call to Action to Promote Walking and Walkable Communities surgeongeneral.gov/StepItUp



- Walkable, Livable Communities.
- Safe Routes to School (Parks, etc.).
- Age-Friendly Comm. (AARP, WHO)
- Sustainability, Smart Growth.
- Transit Oriented Development.
- Vision Zero; "Twenty is Plenty"



i. Destinations nearby: Live, work, shop, play, & learn.









ii. Network of facilities for walking, bicycling &

transit use:







- Sidewalks, multi-use trails, bicycle lanes & pathways.
- Affordable, frequent transit.



iii. Functional & inviting.

Where would you be more likely to shop on foot and/or by bike?





iii. Functional & inviting.







iv. Safety & access.









For the nerds (like me) who want to go to the source . . .

Circulation

AHA POLICY STATEMENT

Creating Built Environments That Expand Active Transportation and Active Living Across the United States

A Policy Statement From the American Heart Association

ABSTRACT: Physical activity is vital for the health and well-being of youth and adults, although the prevalence of physical activity continues to be low. Promoting active transportation or human-powered transportation through policy, systems, and environmental change is one of the leading evidence-based strategies to increase physical activity regardless of age, income, racial/ethnic background, ability, or disability. Initiatives often require coordination across federal, state, and local agencies. To maximize the effectiveness of all types of interventions, it is imperative to establish strong and broad partnerships across professional disciplines, community members, and advocacy groups. Health organizations can play important roles in facilitating these partnerships. This policy statement provides recommendations and resources that can improve transportation systems, enhance land use design, and provide education to support policies and environments to promote active travel. The American Heart Association supports safe, equitable active transportation policies in communities across the country that incorporate consistent implementation evaluation. Ultimately, to promote large increases in active transportation, policies

Deborah R. Young, PhD,
FAHA, Chair
Angie L. Cradock, ScD
Amy A. Eyler, PhD
Mark Fenton, MS
Margo Pedroso
James F. Sallis, PhD
Laurie P. Whitsel, PhD,
FAHA
On behalf of the
American Heart
Association Advocacy
Coordinating Committee

Policy change



Infrastructure improvements



More walking, bicycling, transit



Population health improvements

s most papeolawor

2. So how can you help to change this?

- Convene inclusive, interdisciplinary working group; identify champion(s).
- Get out & move; lead I2Audits.
- Try stuff: Low cost pop-ups & quick build demonstrations.
- Target POLICY change:
 - Complete Streets
 - Healthy Zoning.
 - Transportation Trails.





Complete Streets policy.

Consider all users; of all ages, backgrounds, & abilities; using all modes (walk, bike, transit, car); all of the time.





SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION DEPARTMENTAL DIRECTIVES

Directive Number: 28 Date: February 4, 2021

Subject: Complete Streets

Referrals: SCDOT Roadway Design Manual

Purpose: Establish Guidelines for Inclusion of Multimodal Accommodations

(Walking, Bicycling, and Transit) in Projects Undertaken on the State-

Owned Highway System

This Directive serves as the foundation for the South Carolina Department of Transportation (Department) to implement a complete streets policy that requires and encourages a safe, comfortable, integrated transportation network for all users, regardless of age, ability, income, ethnicity, or mode of transportation. This Directive will initiate change with numerous other sources of information within the Department to ensure our approach to providing complete streets is integrated into our practices and procedures. This Directive supersedes all other Department guidance that conflicts with the information in this Directive.

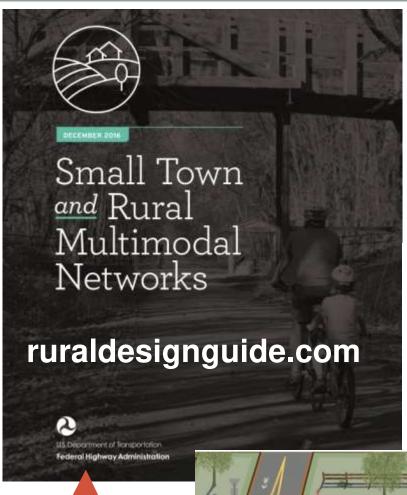
spatsmpo.com/247/SCDOT-Complete-Streets

Complete Streets – SC DOT Policy

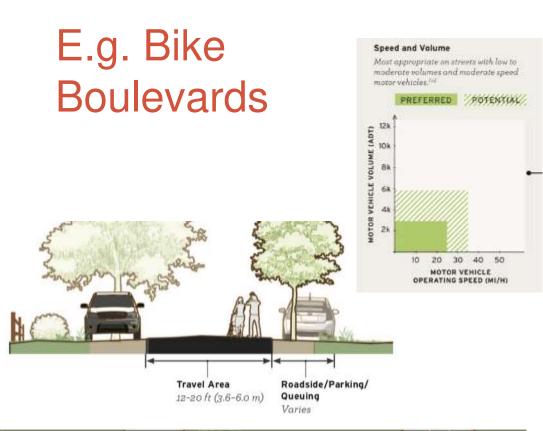
- Adopted Feb. 2021
- Construct & maintain facilities for all modes: walk, bike, transit, motor vehicles, freight.
- Urges consideration of land uses in planning.
- Allows reference to NACTO, FHWA, NCHRP....
- Creation of a Complete Streets Council.

When and how do you engage SC DOT on a project to assure that Complete Streets principles are applied?

As early as possible; as part of a plan!



FHWA





Planning, Zoning, Subdivision Regulations





- Narrower streets, sidewalks both sides, links to trail systems (existing and planned).
- Variety of services; shared open space.
- Mix housing types, sizes, and incomes.

Yes, even in small, rural communities...









Trail Network Policies

- Develop a vision & long-term plan.
- Focus on functional links, to key destinations.
- Utilize all corridors: rail, utility, water-fronts, roadways.
- Vary trail type by use and location.







How much setback is needed to make pedestrians comfortable?

("Here comes the math")

Preferred sidewalk setback:





Even a bike lane adds a buffer.

1.0 Fenton minimum

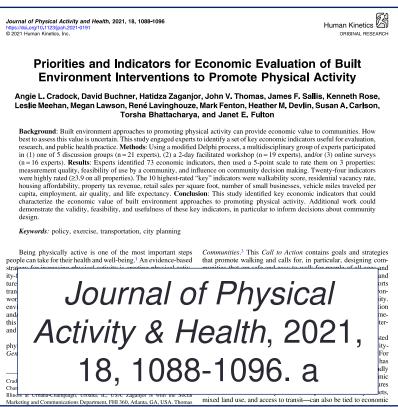
3. Supportive policies and environments for active transportation yield *economic benefits*...

Environmental health

- Greater walkability& bike-ability.
- Better air quality.
- Fewer vehicle miles traveled.

Economic activity

- More small business development.
- Lower vacancy rates.
- Increased property values & tax revenues.
- 7. More affordable housing opportunities.
- 8. Increased retail sales.



Social health & welfare

- 9. Higher employment rates.
- 10. Longer & healthier lives.

Healthy design = triple bottom

CTIC WAR

Prosperity



People



Healthy Economy



Planet

Healthy People Healthy Environment

E.g. Success Story: Sulphur Springs, TX



- Inclusive planning.
- Parking converted to a community square.
- Restored one-way to two-way streets.

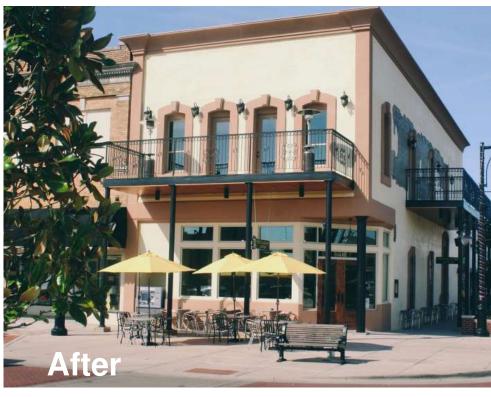
Sulphur Springs TX

 Implemented Complete Streets!



E.g. Economic Success: Sulphur Springs, TX





Business district goes from 80% vacancy to 80% occupancy.

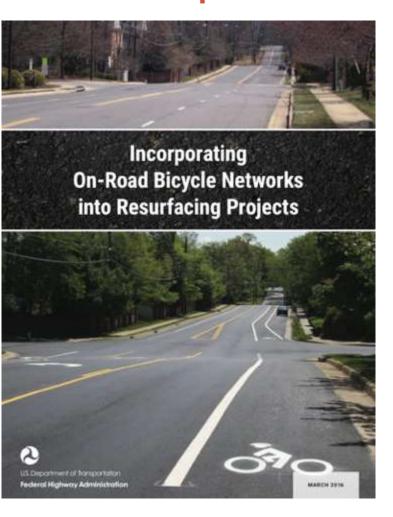


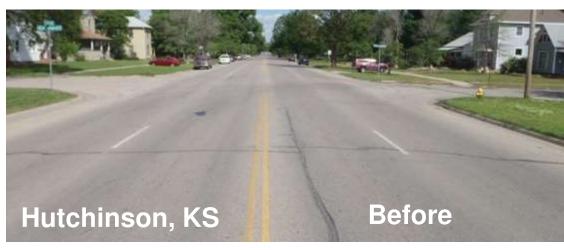
Make the economic case

- 1. Two-page fact sheet
- 2. On-line library of resources
- 3. Discussion guide.
- 4. Customizable PowerPoint presentation

nccor.org/nccor-tools/ create-thriving-activity-friendly-communities/

Cheapest? Routine Accommodation





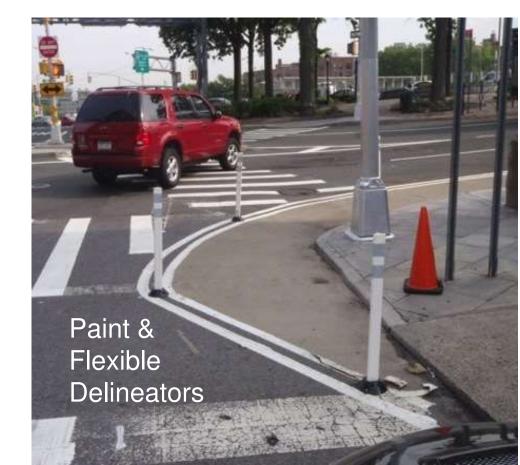


fhwa.dot.gov/environment/bicycle_pedestrian/publications/ resurfacing/resurfacing_workbook.pdf



4. I2Audits to engage; pop-ups & quick-builds to demonstrate.









I2Audit: Inclusive, Interdisciplinary Walk/Move Audit.





Ask for a **0-10 score** on the four elements:

- 1. Land use mix: Different destinations in proximity?
- 2. Network of facilities: Quality & connectivity?
- 3. Functional, inviting: Rewards peds, bike, transit?
- 4. Safety & access: ADA design, all users, all abilities?





COVID-inspired efforts to create safer shared spaces.









Tar paper crosswalks







Main St. example:

Pop-up curb extensions



Enosburg Falls, VT









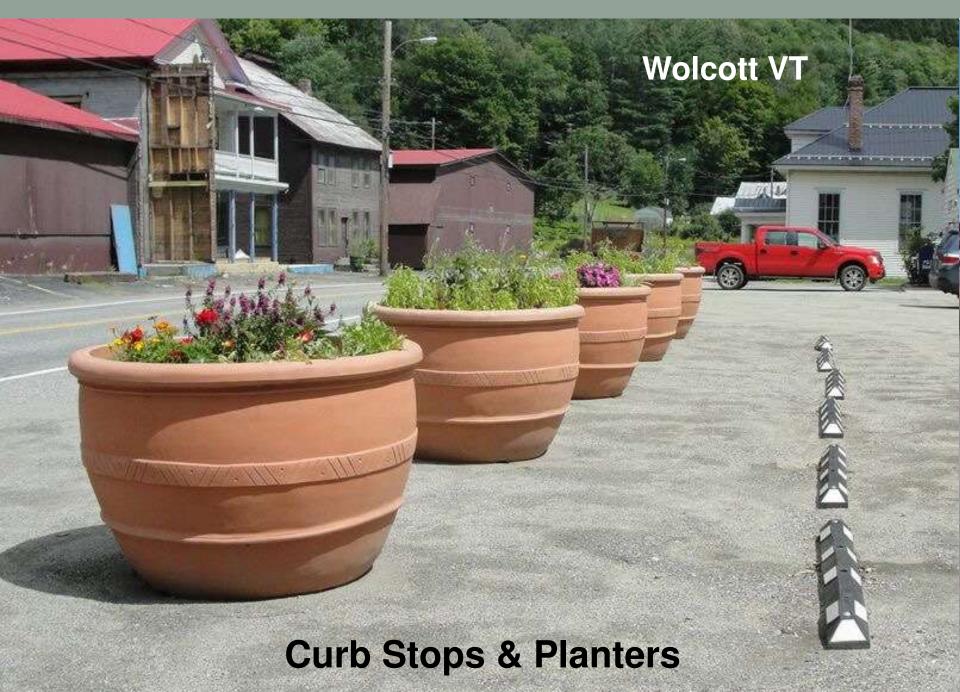
RICHARD L GREEN W







- "It will slow traffic."
- "It will make pedestrians trying to cross more visible."
- "Drivers who can't handle it shouldn't be driving."





"Food Park" McAllen, TX





Community garden & festival area Salt Lake City, UT





FCS students Working on Wellness (WOW) audit.

















The success was *not* just the paint!

America Walks



EXAMPLES OF PAST FUNDED PROJECTS

Previous America Walks' Community Change Grantees













EXAMPLES OF FUNDED COMMUNITY CHANGE GRANTS

From photos top to bottom, left to right:

- 1. Shinnecock Indian Nation Church Street Crosswalk Project
- 2. Verde's Latina Led Community Foot Patrol/Walking Group
- 3. Mathews Cultural Arts District Crosswallk Mural
- 4. Shoals Walk Across Alabama 10-Week Walking Challenge

- 5. Walking Program in the Jackson Medical Mall
- Camden Salvation Army Kroc Center Walking School Bus After-School Program
- 7. Cupertino Safe Routes Student Led Walk/Bike Pop-Up
- 8. Camden Salvation Army Kroc Center Walking School Bus Cleanup Program

americawalks.org/community-change-grants/

AARP Livable Communities







www.aarp.org/livable-communities/ www.aarp.org/livable-communities/community-challenge/

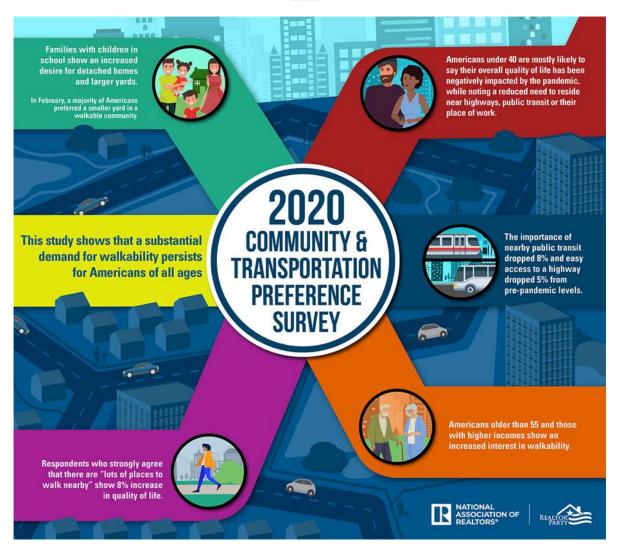
National Association of Realtors





Annual surveys exploring home-buyers' preferences show a growing desire for walkable, livable communities.

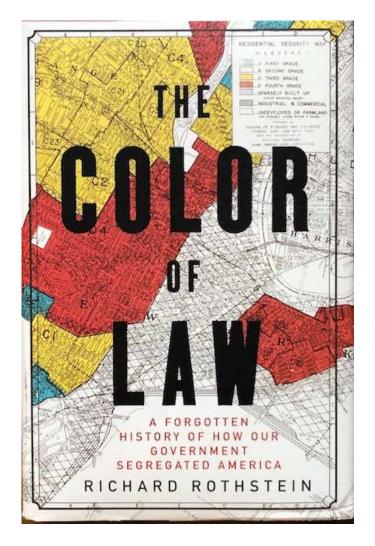
National Association of Realtors Smart Growth Grants are designed to support local community change efforts.



5. Where to focus our efforts?

Wherever there are:

- High rates of poverty.
- High rates of chronic disease risk.
- Low rates of car ownership/high rates of transit dependence.

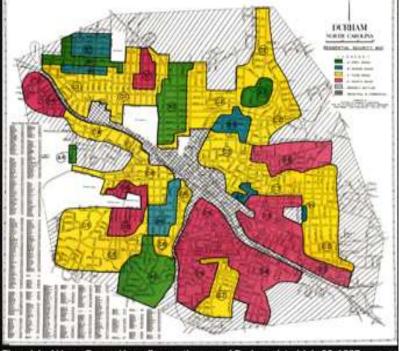


Richard Rothstein, *The Color of Law; A Forgotten History of How Our Government Segregated America*. Livernight Pub. 2017.

The Impact of Covid-19 on Minority Communities

Interview w/ Dr. Michelle Evans, Nat'l Inst. of Health; www.nejm.org

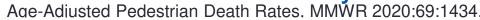
Red-Lining in Home Mortgages (Home Ownership Loan Corp.)

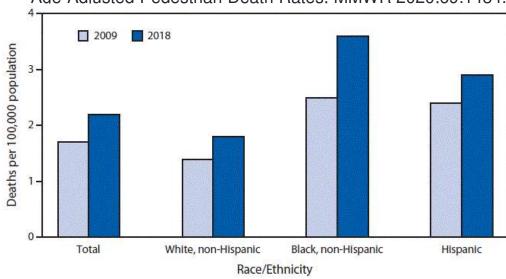


tinal Home Owners' Loan Corporation map of Durham, dated July 23, 1937 Red areas were largely African-American communities, and considered to be too risky for new home loans

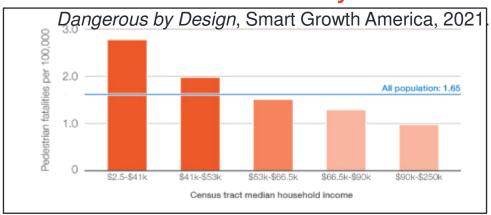
> De facto school segregation.

Pedestrian Deaths by Race Age-Adjusted Pedestrian Death Rates. MMWR 2020:69:1434.





Pedestrian deaths by income.











Atlanta's BeltLine Trail





Healthy Community Design, Anti-displacement, and Equity Strategies in the USA: A Scoping Review

Natalicio Serrano · Lindsey Realmuto · Kaitlin A. Graff · Jana A. Hirsch · Lauri Andress · Mojgan Sami · Ken Rose · Akimi Smith · Katherine Irani · Jean McMahon · Heather M. Devlin

Journal of Urban Health (2023) 100:151-180

Table 1 Typology of displacement prevention and mitigation strategies

Category	Definition	Examples
1. Preservation	Preserve existing affordable rental units	Right to purchase lawsDemolition control
2.Protection	Help long-time residents who wish to stay in the neighborhood	 Employer assisted housing Rent skewing
3.Inclusion	Ensure that a share of new development is affordable	Inclusionary zoning policyDensity bonuses
4. Revenue generation	Harness growth to expand financial resources for affordable housing	 Tax Increment Financing (TIF) Housing trust funds
5.Incentives/disincentives	Create incentives for developers of affordable housing, and/or discourage developers from increasing rents	Anti-speculation taxesImpact fees
6.Property acquisition	Facilitate acquiring sites for affordable housing	 Expropriation Community land trusts
7.Stabilization	Stabilizing long time/historical residents by securing long-term housing	Individual development accountsDown payment assistance
8.Community engagement/education	Educate and engage with community members on factors related to affordable housing and displacement	Coalition buildingAwareness campaigns
9.Cross-cutting	Overarching thematic approaches related to displacement or affordable housing	Health in all policiesCommunity planning

Policies Can Anticipate and Reduce Gentrification, Displacement, and support Housing Diversity. E.g., ...

- Inclusionary zoning (required affordable %); bonuses
- Mix of rental and ownership
- Mix styles and sizes; townhomes, row houses, cottage clusters, minihomes; shared housing
- Accessory dwelling units (e.g., garden & garage apartments)
- Missing Middle choices
- First right of refusal for tenants







6. Your call to action . . .

- Speak up: Recommend, promote Active Transportation; pitch all the benefits; *make the economic case* to community & leaders.
- Step up: Be a role model; walk a child to school, bike for errands, take transit to work; Convene an AT work group; host I2Audits.
- Act up: Engage peer agencies professionals, local leaders; develop pop-up demos; evaluate & advocate for policy change (Complete Streets, Transportation Trails, Mixed-Use Zoning, Equitable housing & transit policies).



Olshansky et.al.

"A Potential Decline in Life Expectancy . . ."

New Eng. J. of Med.,

March 17, 2005

Woolf et.al.,
"Life Expectancy & Mortality
Rates in the US, 1959-2017" *J. of Amer. Med. Assoc.,*Nov. 26, 2019

