2019 Pennsylvania Health Equity Summit

Active Transportation: Design for More Walking and Biking

Roy Gothie Statewide Bicycle and Pedestrian Coordinator PennDOT rgothie@pa.gov



2019 Pennsylvania Health Equity Summit

Active Transportation: Design, Plan, Fund, Educate, Encourage, Construct, Maintain, Coordinate, and Collaborate for More Walking and Biking

> 2019 Pennsylvania Health Equity Summit Philadelphia, PA

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What is Active Transportation?

Active transportation is any self-propelled, humanpowered mode of transportation, such as walking or bicycling.







Active Transportation isn't just recreational









Walking and biking connects you to the people and resources in your community.









Active Transportation supports all ages, skill levels and dis/abilities











It promotes innovation







Disruption – Tactical Ubanism





Experimentation



It supports Community Health



Sources: TRAILS: Huston S, Evenson K, Bors P, et al. "Neighborhood Environment, Access to Places for Activity, and Leisure-Time Physical Activity in a Diverse North Carolina Population." American Journal of Health Promotion, 18(1): 58–69, September/October, 2003. WALKABLE COMMUNITIES: Fronk LD, Schmid TL, Sallis JF, Chapman J, Saelens BE. Linking objectively measured physical activity with objectively measured urban form. Findings from SMARTRAQ, American Journal of Preventive Medicine 2005; 28(252): 117–25. JUNE VISE: Farley T, Neriwetter R, Baker E, Watkins L, Johnson C, Webber L. Safe play spaces to promote physical activity in inner-city children: Results from a pilot study of an environmental intervention. Am J Pub Health. 2007;37(52)=1631. REGRATIONAL FACILITIES: Gordon-Larsen P, Nelson MC, Page P, Popkin BM. "Inequality in the Built Environment Underlies Key Health Disparties in Physical Activity and Desting" Peditric, 117(2): 477–424, 2006.

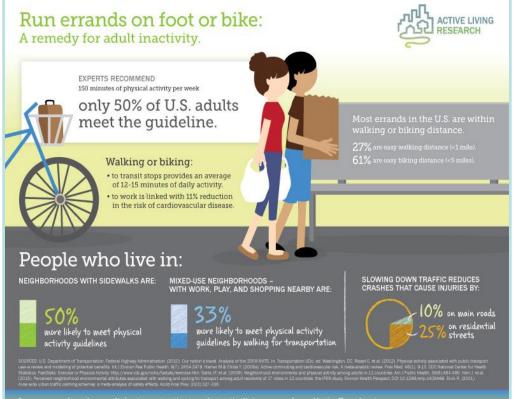




(Rahman, I, et al. 2014; Rahman, I, et al. 2015)

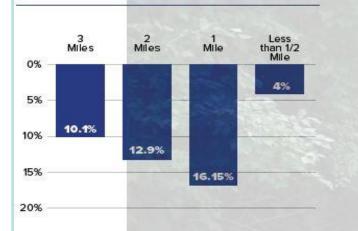


It supports Mode Shift



Learn more about how policies impact active travel at activelivingresearch.org/ActiveTravelreview

Number of Vehicle Trips 3 Miles or Less

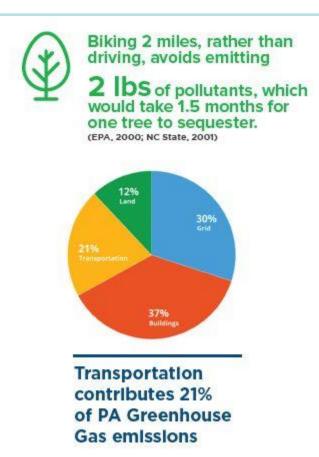


43% of trips are three miles or less and could be replaced by shifting modes to biking or walking.



(https://nhts.ornLgov/tables09/fatcat/2009/vt_TRPMILES.html)





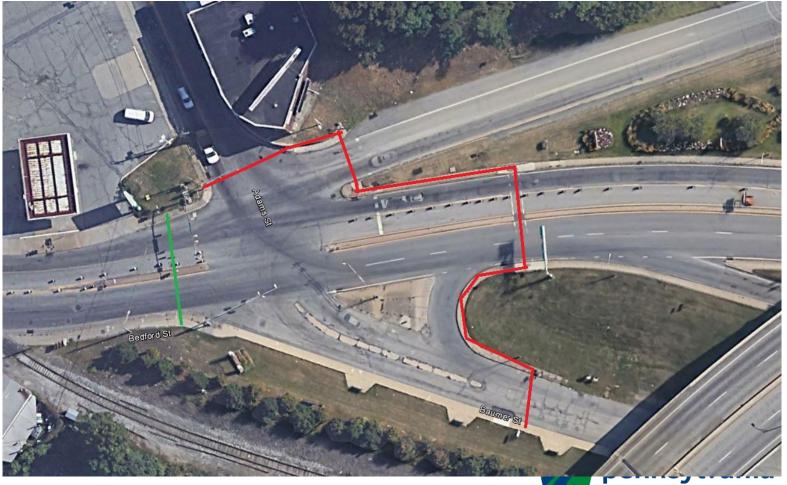
If 8% more children living within 2 miles of a school were to walk or bike to school, the air pollution reduced from not taking a car would be equivalent to removing 60,000 cars from the road for one year. (Pedroso, MS, 2008; Safe Routes to School, 2008)

Supports Greenhouse Gas Reductions









DEPARTMENT OF TRANSPORTATION





201 Pedestrian Fatalities 18 Bicyclist Fatalities

4129 Reportable Pedestrian Crashes

976 Reportable Bicyclist Crashes



The combined rate of pedestrian and bicyclist fatalities were 15% of the total fatalities on state roads



Pedestrians account for of 13.2% all traffic deaths in Pennsylvania, despite representing only 3.2% of all traffic

crashes.







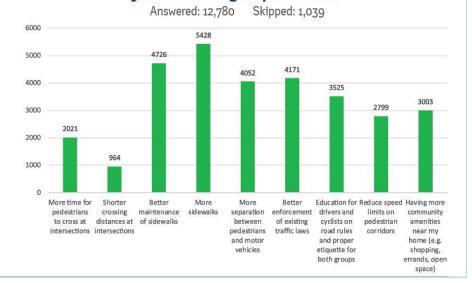
2019 ACTIVE TRANSPORTATION PLAN

Statewide Survey Analysis - Walking

How easy or challenging is it to walk in your community?



Which of these changes would most improve your walking experience?

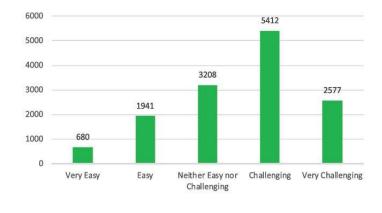




Statewide Survey Analysis - Biking

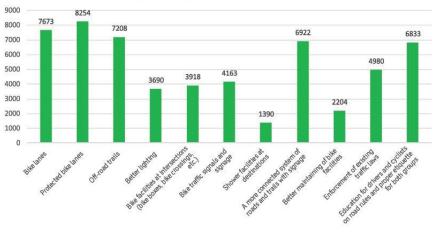
How easy or challenging is it to bike in your community?

Answered: 13,819 Skipped: 0



Which of the following would make you want to bike more frequently?

Answered: 12,006 Skipped: 1,813





BICYCLIST DESIGN USER PROFILES

Interested but Concerned

51%-56% of the total population

Often not comfortable with bike lanes, may bike on sidewalks even if bike lanes are provided; prefer off-street or separated bicycle facilities or quiet or traffic-calmed residential roads. May not bike at all if bicycle facilities do not meet needs for perceived comfort.

Somewhat Confident

5-9% of the total population

Generally prefer more separated facilities, but are comfortable riding in bicycle lanes or on paved shoulders if need be.

Highly Confident

4-7% of the total population

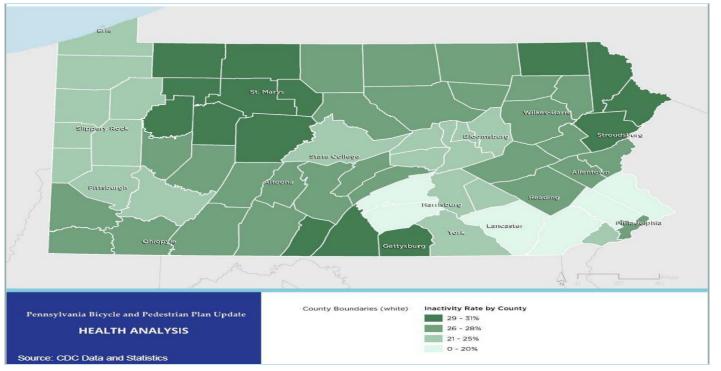
Comfortable riding with traffic; will use roads without bike lanes.



FHWA Bikeway Selection Guide - https://safety.fhwa.dot.gov/ped_bike/tools_solve/docs/fhwasa18077.pdf



\$13.4 Billion 2017 costs associated with Diabetes



https://www.cdc.gov/physicalactivity/data/index.html



Core Policy Statement

PennDOT shall make accommodations for active transportation a routine and integral element of planning, project development, design, construction, operations, and maintenance.



Vision Statement

Biking and walking are integral elements of Pennsylvania's transportation system that contribute to community health, economic mobility, and quality of life.



THEME 1: ENHANCE SAFETY



THEME 2: PROVIDE TRANSPORTATION EQUITY



THEME 3: CONNECT WALKING & BIKING NETWORKS



THEME 4: LEVERAGE PARTNERSHIPS



THEME 5: IMPROVE PUBLIC HEALTH



THEME 6: INCREASE ECONOMIC MOBILITY





Statewide Bicycle and Pedestrian Master Plan

