

Bicyclists willing to ride up to 3 miles to catch bus, train, study shows

January 19 2015, by Brad Buck



Credit: Amy L. Stuart UF/IFAS photographer

If three American metro areas are any indication, few people ride their bicycles to a bus or train station to commute to work, and those who do only travel an average of 1 to 2 miles. That suggests to a University of Florida researcher that American cities should make the 2-mile radius around transit hubs more bike-friendly.

Methods to do so could include installing bicycle lanes separated from vehicular traffic, adding off-street multipurpose paths for pedestrians

and bicyclists and converting car lanes to bike-only lanes, said UF geomatics Associate Professor Henry Hochmair.

Hochmair reached his conclusions by studying data collected by [transit agencies](#) from passengers who rode trains and buses in three [metro areas](#) – Atlanta, Los Angeles and Minneapolis-St. Paul.

From those who completed the survey, Hochmair analyzed trips from 157 people in Los Angeles, 66 in Atlanta and 99 in Minneapolis who rode their bikes to access transit – 2.3 percent, 0.3 percent, and 4.2 percent, respectively. In Hochmair's data analysis, those who opted to ride a bike to a transit hub cycled an average of 1 to 2 miles in Atlanta and the Twin Cities and 3 miles in Los Angeles.

Hochmair had expected to find more people riding their bicycles to transit hubs based on statistics on commuters from other countries. He cited the Netherlands, where 35 percent of those who ride the bus or train take their bikes to a transit hub.

"That shows what would be possible with appropriate infrastructure and transit policies," he said.

Bicycling fatalities are up recently. Florida deaths rose by 37 from 2010 to 2012, up to 120, according to a 2012 study by the Governors Highway Safety Association, a nonprofit group that pushes government to improve bicycle safety. These figures underscore Hochmair's push for better bicycle infrastructure, which may bring the added bonus of more cyclists to transit hubs.

But there are challenges.

Since U.S. cities are built for cars, using five- or six-lane highways, surrounded by shopping centers and subdivisions, there is little room or

incentive for alternative transportation, Hochmair said. Additionally, roads in many neighborhoods often contain cul-de-sacs and looping roads, resulting in longer distances for bicyclists to travel. This further discourages bicycling in urban and suburban areas, he said.

Hochmair, who conducts research from UF's Fort Lauderdale Research and Education Center, said his study's findings are critical to reducing [vehicular traffic](#).

"The overall goal of transportation planners is to reduce the dependency on individual car traffic and reduce congestion," said Hochmair, an Institute of Food and Agricultural Sciences faculty member. The average U.S. commute time for a full-time worker is 23 minutes by car, thus too far to walk and possibly too far to cycle, he said. "Using bike and transit combined is a viable alternative to car traffic."

As part of his research program, Hochmair uses geographic information systems to quantify how road and [transit](#) hub designs affect people's travel behavior and how improving those networks can make transportation more sustainable, for example, by encouraging cycling, walking, and riding buses and trains.

"The over-dependency on cars and lack of physical activity has led to dramatically increased rates of obesity, which makes the facilitation and promotion of physical activity, including walking and cycling, a high public health priority," he said.

Provided by University of Florida

Citation: Bicyclists willing to ride up to 3 miles to catch bus, train, study shows (2015, January 19) retrieved 10 April 2024 from <https://phys.org/news/2015-01-bicyclists-miles-bus.html>

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