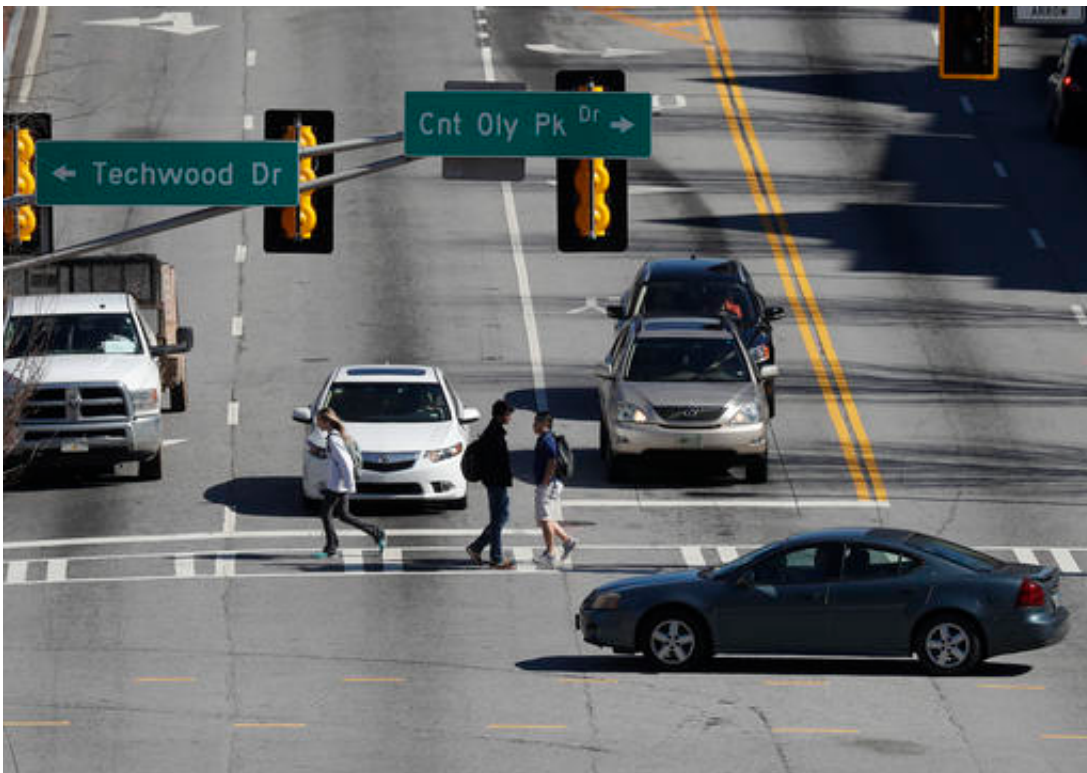


# Atlanta, other cities eye test tracks for self-driving cars

February 20 2017, by Jeff Martin

---



In this Feb. 15, 2017, file photo, pedestrians and cars travel along a busy section of North Avenue near the Georgia Tech campus in Atlanta. North Avenue is being eyed as a real-world proving ground for self-driving vehicles, one of several communities nationwide vying to be test sites for the emerging technology. (AP Photo/John Bazemore)

Self-driving vehicles could begin tooling down a bustling Atlanta street full of cars, buses, bicyclists and college students, as the city vies with

other communities nationwide to test the emerging technology.

Atlanta would become one of the largest urban areas for testing self-driving vehicles if plans come together for a demonstration as early as September.

Nationwide, 10 sites were designated last month as "proving grounds" for automated vehicles by the U.S. Department of Transportation.

They include North Carolina turnpikes, the eastern Iowa prairie and a Michigan site where World War II bombing aircraft were produced in a factory built by automobile pioneer Henry Ford. Atlanta isn't on the list, but city officials nevertheless hope to make an impact.

Backers of driverless cars say they could be part of a broader effort to rebuild the nation's infrastructure, something President Donald Trump has pledged to do. As roads and highways are rebuilt, "we think it would be very, very wise to build modern infrastructure with 21st-century capability in mind," said Paul Brubaker, president and CEO of the Washington, D.C.-based Alliance for Transportation Innovation.

Self-driving vehicles, he said, "should be a national priority."



In this Feb. 15, 2017, file photo, pedestrians and cars travel along a busy section of North Avenue near the Georgia Tech campus in Atlanta. North Avenue is being eyed as a real-world proving ground for self-driving vehicles, one of several communities nationwide vying to be test sites for the emerging technology. (AP Photo/John Bazemore)

The Trump administration hasn't revealed its approach to the technology, but two U.S. senators this month announced a bipartisan effort to help speed deployment of the vehicles on the nation's roads. Republican John Thune of South Dakota and Democrat Gary Peters of Michigan said

they're considering legislation that "clears hurdles and advances innovation in self-driving vehicle technology."

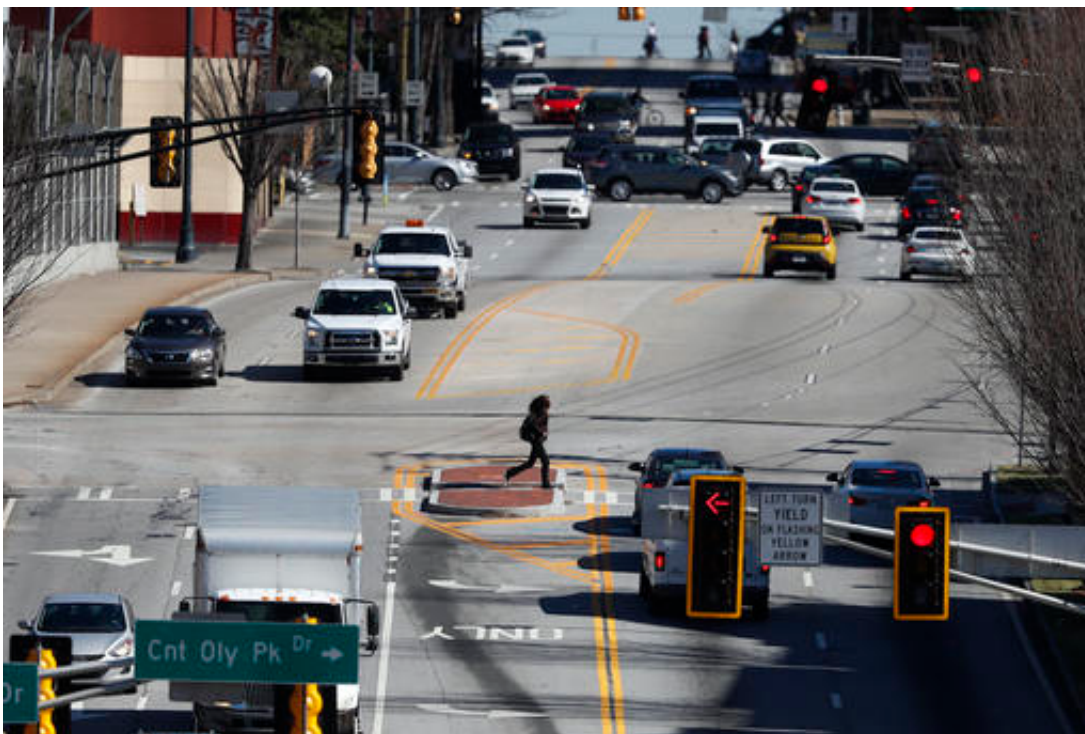
Atlanta has sought proposals from companies for a demonstration of an autonomous vehicle on North Avenue later this year, city documents show.

The street, which connects the Georgia Institute of Technology campus to some of the South's tallest skyscrapers, would be among the busiest urban environments yet for such testing.

In Atlanta, city officials say a key goal is to create optimal conditions on North Avenue for such vehicles to operate.

The goal of September's demonstration is to show how such a vehicle would navigate in real-world traffic, though a driver will be inside and can take the controls if needed, said Faye DiMassimo, an Atlanta official involved in the North Avenue project.

"We still think that autonomous vehicles are sort of 'The Jetsons,' right?" DiMassimo said. "When you looked at all the information, you realize not only is this here and now, this has been in development for quite some time."



In this Feb. 15, 2017, file photo, pedestrians and cars move along a busy section of North Avenue near the Georgia Tech campus in Atlanta. North Avenue is being eyed as a real-world proving ground for self-driving vehicles, one of several communities nationwide vying to be test sites for the emerging technology. (AP Photo/John Bazemore)

North Avenue would first be equipped with devices and sensors, enabling vehicles to communicate with traffic signals and warning self-driving cars of red lights or treacherous conditions such as snow or ice, the city documents show.

Cameras would provide live video of traffic, and computers would analyze data on road conditions, concerts or other events likely to clog streets.

Security is a key concern, however.



"Imagine if these vehicles were hacked. Imagine if the system that controls them were hacked," said Jamie Court, president of Consumer Watchdog.

"I don't think our society is going to want a robot glitch or a software hack to be responsible for mass deaths," he said. "If we sanction robots controlling these vehicles without really knowing the risks, I think the technology will go under when the first major catastrophe befalls us."

Court's group worked with California transportation officials as they developed rules for testing vehicles developed by Google and other companies. Now, Court and others are watching to see how often human drivers must take over to prevent accidents as vehicles are tested in California.



In this Thursday, Jan. 26, 2017 photo, a driverless shuttle sits on display at the Riverside EpiCenter in Austell, Ga. Self-driving vehicles could begin tooling

down a bustling Atlanta street full of cars, buses, bicyclists and college students, as the city vies with other communities nationwide to test the emerging technology. (AP Photo/David Goldman)

Tying together massive amounts of data from so many sources "will pose myriad security challenges," Atlanta Mayor Kasim Reed acknowledged in a report last year on a related initiative to transform Atlanta into a "smart city." Researchers at Georgia Tech, Reed said, will be key to that effort.

Public acceptance of the vehicles is among the main challenges to their widespread use on city streets and highways, Brubaker said.

He and others see Atlanta as a logical base for the emerging industry.

Atlanta's notorious traffic congestion could lead residents to welcome such vehicles, Brubaker said.

"In any city that has that level of congestion, people have a relatively open mind to embracing technology solutions that will improve the traffic flow," Brubaker said.

However, critics say the cars are not yet able to safely navigate clogged streets with traditional cars and pedestrians.



In this Thursday, Jan. 26, 2017 photo, a driverless shuttle bus retraces its tracks while on display at the Riverside EpiCenter in Austell, Ga. Self-driving vehicles could begin tooling down a bustling Atlanta street full of cars, buses, bicyclists and college students, as the city vies with other communities nationwide to test the emerging technology. (AP Photo/David Goldman)

"The technology really is not ready to be used on urban streets, unless they are going to be cleared of human drivers and dedicated strictly to autonomous vehicles," Court said.

"The real problem is these technologies tend to fail when they're around pedestrians, cyclists, human drivers," Court said. The key obstacle, he said: "human behavior is really unpredictable."

At one North Avenue intersection near Georgia Tech's football stadium, "students tend to jaywalk, so it can get a little bit messy over there," said Georgia Tech student Maura Currie, 19. She called it "a hectic stretch of



road."

## 10 sites in US named 'proving grounds' for driverless cars

In January, the U.S. Department of Transportation designated 10 "proving grounds" to encourage testing of automated [vehicle](#) technologies:

— City of Pittsburgh and the Thomas D. Larson Pennsylvania Transportation Institute



In this Thursday, Jan. 26, 2017 photo, a sensor, bottom left, is seen on the front of a driverless shuttle bus on display at the Riverside EpiCenter in Austell, Ga. Self-driving vehicles could begin tooling down a bustling Atlanta street full of cars, buses, bicyclists and college students, as the city vies with other communities nationwide to test the emerging technology. (AP Photo/David

Goldman)

- Texas AV Proving Grounds Partnership
- U.S. Army Aberdeen Test Center
- American Center for Mobility (ACM) at Willow Run, Michigan
- Contra Costa Transportation Authority (CCTA) & GoMentum Station
- San Diego Association of Governments
- Iowa City Area Development Group



In this Thursday, Jan. 26, 2017 photo, Vasilis Karavidas, center, an Easy Mile deployment engineer, explains to Johnny Liles, right, and Adam Ledgister how the company's driverless shuttle bus works while on display at the Riverside EpiCenter in Austell, Ga. Self-driving vehicles could begin tooling down a bustling Atlanta street full of cars, buses, bicyclists and college students, as the city vies with other communities nationwide to test the emerging technology. (AP Photo/David Goldman)

— University of Wisconsin-Madison

— Central Florida Automated Vehicle Partners

— North Carolina Turnpike Authority

© 2017 The Associated Press. All rights reserved.

Citation: Atlanta, other cities eye test tracks for self-driving cars (2017, February 20) retrieved 21 June 2024 from <https://phys.org/news/2017-02-atlanta-cities-eye-tracks-self-driving.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.