

**The City of Durham's Transportation Department is currently conducting the Bull E-Bike Pilot to learn more about how electric bikes (e-bikes) can be deployed to improve the transportation experience in Durham. More information about this project can be found here:**

<https://waytogodurham.com/bullebike/>

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## How A Loan-To-Own Program In San Diego Is Boosting E-Bike Access

A San Diego nonprofit is working with California to implement an e-bike incentive program by helping low-income Californians adopt e-bikes.



EMILY NONKO SEPTEMBER 23, 2022



(Photo courtesy Pedal Ahead)



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**P**amela Hill lives in Broadway Heights, a hilly and rural San Diego neighborhood where it isn't easy to ride a bike. Mobility issues she's faced have made it even more difficult. But two years ago, she joined a "loan to own" e-bike program that offered a solution. She was soon riding regularly, a few miles for errands and as much as 15 miles to travel downtown.

"The chances of me buying an e-bike myself were slim to none," she says. But securing one through the program completely changed the way she travels through the city: "I ended up riding at least 1,400 miles this year."

The program that provided Hill her e-bike is [Pedal Ahead](#), a San Diego-based nonprofit and e-bike incentive program launched in 2020. Low-income participants access e-bikes at no initial cost, while agreeing to ride an average of five miles a day, track and share rides for a study, and secure their own bike insurance. If the participants successfully complete the program after two years, they own the bike.

Since its inception, the organization distributed over 400 bicycles across San Diego County, amounting to over 270,000 bicycle miles. Last month, the program announced it would expand statewide as part of a \$10 million e-bike incentives program overseen by the California Air Resources Board. "We have a proof of concept, we've seen results on multiple levels, and we know there's more we can do with our model that can be replicated throughout the state," says Pedal Ahead founder Ed Clancy.

San Diego is part of a growing group of cities exploring how to subsidize e-bike services for low-income families — [Portland](#), [Denver](#) and [New York City](#) all launched pilots last year. [Buffalo](#) is collecting enough e-bikes together to launch mini-shared micromobility services.

What makes the Pedal Ahead model unique is that it will be adapted for a much larger, more ambitious statewide initiative.

It all started when Clancy, who has a background in political strategy and community engagement, began working with San Diego County Supervisor Nathan Fletcher and the local nonprofit [Rider Safety Visibility](#) to develop the program. The team secured seed funding from San Diego County, the Left Coast Fund, the San Diego Foundation's COVID-19 Response Fund and SDG&E.

Their goal was to get e-bikes — a mobility option that's [proven to be](#) extremely beneficial for the environment and inexpensive to operate, yet which can easily cost upwards of \$1,000 to purchase — in the hands of people who otherwise couldn't afford them or didn't readily have access to them. San Diego proved to be ideal testing grounds "because the topography is hilly," Clancy says, "with long terrains that are ascending and descending."

They designed an application that prioritized distribution to applicants with an income threshold of \$49,000 or lower. Applicants had to agree to ride at least 1,800 miles per year, which equals 150



miles per month or about five miles a day; to record their mileage on a free app; and to secure bike insurance. Applicants who fulfilled the requirements over two years would then own their bike, those who couldn't meet the requirements would be offered the bike at a prorated cost or Pedal Ahead reallocated the bike to a waitlist participant. (To date there have been over 2,000 applications.)

Outreach began in September of 2020 with a mandate of distributing 400 e-bikes. Each bike would include a "safety and visibility package" that includes a helmet, high visibility vest, front and rear bicycle lights, a bike lock and instructions on how accessories and safety features are operated. Monthly meet and greets happen to expand on rider safety training, do-it-yourself maintenance and bicycle operations.

The team advertised the program with community-based organizations, particularly those serving lower-income neighborhoods, as well as with civic leaders, school, health and wellness departments and business associations.

Hill heard about it at a community food distribution event. "I filled out an application not really expecting to hear anything," she says. "But a couple of weeks went by and I got invited to the distribution of the first e-bikes."

Hill soon found she could replace many car trips with her e-bike. "I go to Walmart, Target, Home Depot, grocery stores, the post office ... usually places within a three to five mile radius of my house," she says. When gas prices skyrocketed this year, she rode the bike more frequently.

The program collects testimony and works with them if challenges come up. When Hill's doctor said she had to take a six-month break from riding due to a surgery, for example, the program offered her an extension. ("An extension proved unnecessary because after my healing I was riding in excess of 200 miles per month to catch up and because it was so fun and rewarding," Hill says.)

Testimony is largely positive: "We've heard about the health benefits, how much it's helped with people's commute, how it saved them a ton of money from not taking a car," Clancy says. "Participants are venturing outside of familiar walking radius with an opportunity to go further for goods and services with healthier results."

The program also tracks progress through specially-designed software that identifies an ability to meet mileage thresholds.

Pedal Ahead hit its goal of distributing 400 bikes this May and will distribute 125 more this year in a partnership with the San Diego Association of Governments, the region's public planning and transit agency. In early 2023, Pedal Ahead will begin implementing California's Electric Bicycle Incentive Project, which will provide \$10 million in subsidies to help people buy e-bikes statewide.

"We're in the process of building a framework for what we learned in San Diego and how that applies to the statewide program," Clancy says. "We're working on a draft of the application questionnaire, the strategic plan for implementation into neighborhoods, and a partnership with an organization like the Climate Action Campaign for environmental education on how this program is impactful." (An [e-bike study](#) found that if only 8% of car trips in California were replaced with e-bikes, the country would save 4,078 metric tons of CO2 every day, enough to power 496 million smartphones.)



Clancy hopes this effort can be part of a larger cultural shift that prioritizes e-bikes as a key tool in reducing car trips, combating climate change and addressing economic inequities. “Education has been a big step in introducing e-bikes as a mobility option,” he says. A portion of the \$10 million will be dedicated to outreach, education and operations, with Pedal Ahead hiring representatives in other parts of the state for operation management, community engagement and more.

Road safety, like protected bike lanes and expanded bike infrastructure, is a big part of that cultural shift. “Safety is a problem that people are having,” Hill says of her experience biking in San Diego. “All bike lanes are not created equal throughout the city.”

But after Hill’s experience with her bicycle, she feels like the program is an easy sell. “I am proud to say I completed the requirements of the program so I officially own my e-bike now,” she says. As far as the bike meaningfully changing her mobility habits, she adds, “It absolutely has.”

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*[Emily Nonko](#) is a social justice and solutions-oriented reporter based in Brooklyn, New York. She covers a range of topics for Next City, including arts and culture, housing, movement building and transit.*



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## RECOMMENDED READS

**Aysha Khan, Senior Editor**

At Next City, we explore biking as a solution to the inequities and inaccessibility we face in cities. But



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## Bikes, Not Self Driving Cars, Are The Technological Gateway To Urban Progress

Op-Ed: Bicycles can be at the core of the technological revolution our cities need. It might just require us to use a different lens.

NICOLAS COLLIGNON SEPTEMBER 9, 2022



A cyclist using the city's bike-share program. (AP Photo/Francois Mori)



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It took [a whole lot of noise](#) from activists and campaigners for bicycles to be taken seriously at last year's COP26 summit in Glasgow, and for active travel to be added to the [declaration on accelerating the decarbonisation of road transport](#).

Beyond the serious lobbying from automotive industries, there seems to be a psychological block that prevents the bicycle from being accepted as a central technology when imagining the future of cities.

Sometimes money speaks the loudest. Since 2010, [over \\$200 billion](#) have been invested in autonomous vehicle (AV) technology. Over a similar period of time, just slightly over [\\$2 billion](#) were spent on bike and pedestrian initiatives in the European Union.

If we are to believe the all-powerful technologists, the dream of self-driving vehicles is just around the corner. Yet, looking at the past two years, the biggest revolution has come from vehicles on two wheels. Sparked by the pandemic, supported by people waking up to the climate crisis and now fuelled by the rising price of oil, we're living through a bicycle renaissance.

From [Bogotá](#) to [Paris](#), [New York](#) to [Milan](#), crucial investments in cities' cycling networks have allowed many people to ditch the car for bikes. An increasing number of businesses are also [switching to e-cargo bikes](#) to boost their efficiency and cut down on costs, with the number of sales [more than doubling between 2019 and 2021](#). To encourage this change of gear, France is now giving up to €4000 to people who [trade in their car for an e-bike](#).

In 2021, there were twice as many e-bikes sold as electric cars across Europe. In 2019, [Elon Musk promised millions fully self-driving cars](#) on the roads within a year. Automakers promising to solve our problems with new car technology and [failing to deliver is nothing new](#).

Today the potential benefits from cycling on health, congestion, pollution and CO2 emissions are crystal clear and [increasingly quantifiable](#), but the benefits of self-driving vehicles remain hazy. When ride-hailing companies like Uber and Lyft promised lower congestion and reduced car ownership, they instead [increased congestion and led to a decline in transit ridership](#). A similar turn of events is more than likely for AVs.

So where does the gap between our imagined future, the promises of techno-kings and the realities of progress come from?

Envisioning and developing collective narratives about the future is the critical first step toward realizing it, yet one we tend to dismiss. As physicist and philosopher [Dr. Ursula Franklin](#) described, technology is the house we've built for ourselves. When we depict a certain vision of the future, we're drawing a first sketch of the house. A decent sketch is an essential first step for a good house.

For a long time now, technologists have succeeded in shaping our narratives of progress around objects, and their specific capabilities. It's difficult not to dream of things plucked from the worlds



of science fiction, like flying cars, drones and delivery robots, when thinking 20 years ahead.

But human progress is not limited to how complex and powerful our technological artifacts are. What's happening in the U.S. with abortion laws and gun violence should make this fairly evident. So should the realities of the climate crisis.

In the context of progress, technology is better understood through the prism of complex systems. We need to consider the ramifications of a technology as it permeates society, how it shapes our organization, our interactions and mindsets.

Like an ecologist reading the relationships that compose an ecosystem, our perception of “car technology” needs to include the dependence on oil, highways, parking in cities, the behavior of drivers on the roads towards others, and the laws that we’ve put in place to sustain it.

The concept of “[jaywalking](#),” for example, is integral to the “car technology” of today. The crime of crossing a street without respecting the dominance of cars was [invented](#) by the car industry in the 1920s, who pushed hard to define streets as a place for cars, not people. Our car technology today is also defined by the restriction of movement it imposes on people.

When we begin to see technology through the lens of systems, it becomes clear that genuine technology-led progress will focus on dealing with the accelerating complexity of today’s world, not increasing the complexity of our tools.

In cities, cyclo-logistics is slowly but surely demonstrating that cargo bikes can [outcompete van deliveries](#) in cities, and have the potential to fundamentally transform cities (the boom in e-commerce deliveries has made vans are [one of the worst actors in cities](#), with disproportionate effects on congestion, pollution, city space and road casualties). While cargo bikes as such are unlikely to change dramatically, their potential remains largely untapped. One reason for this comes from limitations of the incumbent van technology that orchestrates urban deliveries. Our best AI algorithms are currently not able to model nimbleness of cargo bikes as logistics vehicles, and the dynamic operations they permit in complex and uncertain urban environments. Software that can dynamically optimize scenarios where vans “re-feed” cargo-bikes throughout the day is only in its infancy.

Similarly, network scientists have recently been developing [new algorithms to efficiently grow bicycle networks in cities](#) using data. In this case again, the core of the innovation lies not in revolutionizing the bicycle (and why should we, with the fastest, most energy efficient, resilient, and lowest carbon emitting urban vehicle?), but in intelligently organizing urban mobility flows.

While these changes might be harder to perceive than the latest gadgets, their measurable impact on people’s journeys and accessibility are noteworthy and undoubtedly signs of progress.

Despite the reluctance of technologists, bicycles can be at the core of the technological revolution needed in cities. It might just require us to use a different lens.

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*Nicolas Collignon is a co-founder at Kale Collective, a tech company aimed at accelerating the transition to cargo bike logistics in cities. He holds a PhD in computational cognitive science and has worked as a data scientist with a cargo bike logistics start-up as well as a cargo bike manufacturer.*

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# Deaths From Traffic Crashes Finally Show Signs of Slowing Down



An ambulance is stopped at the scene of a car crash on a major highway. TILLSONBURG VIA GETTY IMAGES

By **Daniel C. Vock** | SEPTEMBER 19, 2022

**Fatalities on U.S. roadways fell in early 2022 for the first time in almost two years.**

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Traffic deaths decreased for the first time in nearly two years this spring, federal regulators reported Monday, but the overall number of road fatalities remained stuck at their highest level since 2006.

“Traffic deaths appear to be declining for the first time since 2020, but they are still at high levels that call for urgent and sustained action. These deaths are preventable, not inevitable, and we should act accordingly,” said U.S. Transportation Secretary Pete Buttigieg in a statement.

The estimates from the National Highway Traffic Safety Administration showed that traffic fatalities between April and June dipped by 4.9% compared to the same time last year. That’s the first decrease in seven quarters.

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2021.

“We all hope this is the start of a downward trend in fatalities,” NHTSA Acting Administrator Ann Carlson said at a conference of the Governors Highway Safety Association Monday, [according to The Associated Press](#). But the size of the decline was not enough, she said. “This is not the new normal we want.”



The number of people who have died on U.S. roads rose rapidly after the first few months of the pandemic. NHTSA estimates that [42,915 people were killed](#) on streets during 2021, a yearly death toll more than 10,000 higher than a decade before.

Safety advocates are still trying to determine why the numbers shot up so suddenly in the last two years. Some blame drivers for behaving more recklessly at a time of societal upheaval, while others think changing traffic patterns have encouraged drivers to travel at faster speeds, increasing the likelihood and severity of fatal crashes. 🛑

Daniel C. Vock is a senior reporter for *Route Fifty* based in Washington, D.C.

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REPORT SEP 7, 2022

# North Carolina's Strategic Transportation Investments Law Is a Barrier to Progressive Transportation

North Carolina's transportation project prioritization framework locks in highway investments at the expense of projects that would provide sustainable and affordable alternatives to driving, including public and active transportation such as biking and walking.

AUTHOR



Kevin DeGood

**Building an Economy for All**, Economy, Infrastructure, State and Local Policy



Traffic flows east on Interstate 40 in Raleigh, North Carolina, on July 1, 2005. (Getty/Logan Mock-Bunting)

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## FACT SHEET

**Fact Sheet: North Carolina's Strategic Transportation Investments Law**

Sep 7, 2022  
Kevin DeGood

## Introduction and summary

U.S. surface transportation policy is premised on federal aid to states. Apart from a few discretionary grant programs controlled by the U.S. secretary of transportation, the federal government distributes most surface transportation funding to states each year, leaving system planning and project selection decisions to state departments of transportation. This federal aid structure matters because the Infrastructure Investment and Jobs Act (IIJA)—also known as the bipartisan infrastructure law—will provide states with more than \$300 billion in highway funding over the next five years.<sup>1</sup> The choices that states make with these funds will substantially determine the degree to which the bill advances the Biden administration's climate, equity, and inclusive growth goals.

Unfortunately, many states have constitutional provisions, laws, and rules that either favor or require state and federal transportation funds to be spent on highway construction—including highway expansion—that deepens expensive auto dependence, increases greenhouse gas (GHG) and Clean Air Act criteria pollution emissions, and creates barriers to economic opportunity.<sup>2</sup> State constitutional provisions, laws, and rules that lock in highway spending can hamper progressive governors from implementing their vision for inclusive growth. They can also effectively penalize metropolitan regions that try to advance progressive infrastructure programs focused on robust transit, active transportation—including biking and walking—and sustainable land use.

This report uses the recently adopted long-range transportation plan for the Durham-Chapel Hill-Carrboro (DCHC) and Capital Area (CAMPO) metropolitan areas—known as Connect 2050—and the state of North Carolina's Strategic Transportation Investments (STI) law as a case study to demonstrate how state laws and rules can constrain local attempts at progressive reform. In addition to the DCHC/CAMPO long-range plan, the report looks at the North Carolina Department of Transportation's (NCDOT's) long-range plan and Executive Order 246: North Carolina's Transformation to a Clean, Equitable Economy, which was recently signed by Gov. Roy Cooper (D), to show how the STI law impedes progressive executive action as well.<sup>3</sup>

The STI law controls how the NCDOT spends most state and federal surface transportation funds. The STI law and its implementing rules determine how candidate projects are scored and prioritized throughout the state, channeling roughly 94 percent of all transportation funds to highway projects with a heavy focus on construction and expansion—especially of larger highway facilities.<sup>4</sup>

### **State mandates for highway and roadway expenditures**

According to the American Association of State Highways and Transportation Officials, 27 states have either a constitutional provision or a law that



restricts the use of fuel tax revenues to road and highway projects.<sup>5</sup> For instance, Article 9 of Arizona's constitution prohibits spending license, registration, or fuel taxes on anything "other than highway and street purposes."<sup>6</sup> Similarly, Article 11 of South Dakota's constitution states that all license, vehicle registration, and motor fuel taxes "shall be used exclusively for the maintenance, construction and supervision of highways and bridges of this state."<sup>7</sup> Amendment 91 to Arkansas' constitution requires a dedicated portion of state sales taxes go toward "state's four-lane highway system, county roads, and city streets."<sup>8</sup>

The STI law and its implementation rules act as a strong disincentive for metropolitan areas within North Carolina to adopt progressive transportation plans. The reason is simple: Adopting a metropolitan transportation plan that focuses on projects that provide a safe, affordable, and convenient alternatives to driving means likely losing out on state and federal transportation dollars. Because the STI law is not mode-neutral, when a metropolitan planning organization (MPO) chooses to prioritize nonhighway projects, it means that dollars exclusively reserved for highways are sent to other metropolitan areas. This is especially problematic because most of the federal transportation funding from the IIJA will be subject to the STI law, locking North Carolina into a business-as-usual investment pattern.



## The state should amend the STI law to prioritize transportation projects that provide the greatest social, economic, and environmental return on investment regardless of mode.

The state should amend the STI law to prioritize transportation projects that provide the greatest social, economic, and environmental return on investment regardless of mode. This means that North Carolina should adopt a new project scoring process that evaluates projects based on criteria that flow from statewide goals, including climate mitigation and adaptation, safety, affordability, equity, and improved access to employment and essential services. The report concludes by offering alternative project selection criteria that align with these goals. Under a reformed STI system, projects would be evaluated based on their ability to reduce household transportation costs; reduce GHG emissions, Clean Air Act criteria pollutants, and vehicle miles traveled; increase the share of trips on transit or by biking and walking; and increase access to employment, education, and essential services for historically underserved communities, among others.

In the absence of STI reform, metropolitan regions such as Durham as well as future North Carolina governors will be significantly constrained in their ability to advance a more sustainable and inclusive transportation system. Continuing with STI in its current form will lock in decades of more auto dependence, climate emissions, and an imbalanced transportation system overly focused on moving more and more cars and trucks.

## History of federal support for surface transportation



The roots of the federal aid structure date back to the Post Office Department Appropriations Act of 1913.<sup>9</sup> The act appropriated a modest \$500,000 to improve “the conditions of roads to be selected by [the U.S. secretary of agriculture and postmaster general] over which rural delivery is or may hereafter be established.”<sup>10</sup> The attempt at roadway construction administration in Washington, D.C., did not go well. According to the Federal Highway Administration, the appropriation resulted in only “17 post road projects totaling 457 miles in 13 States.”<sup>11</sup> Congress learned from the experience, and the Rural Post Road Act of 1916 stated that “the Secretary of Agriculture is authorized to cooperate with the States, through their respective State highway departments, in the construction of rural post roads.”<sup>12</sup>

Federal support for highway construction and maintenance remained modest for the next several decades. The Federal-Aid Highway Act of 1944 required states to plan for a 40,000-mile national network of interstate highways:

**There shall be designated within the continental United States a National System of Interstate Highways not exceeding forty thousand miles in total extent so located as to connect ... the principal metropolitan areas, cities, and industrial centers, to serve the national defense.**<sup>13</sup>

As with earlier legislation, Congress reaffirmed that states should take the lead in choosing the location, size, and other essential highway design elements. With system plans in place, the Federal-Aid Highway Act of 1956 kicked off the interstate construction era, delivering billions of dollars to states.<sup>14</sup>

The more than \$300 billion in highway funding that IIJA will deliver to state departments of transportation follows this basic federal aid structure. Federal highway funds come with few limitations or requirements, leaving states with nearly unlimited discretion over what to build. In fact, Section 145 of Title 23 of the U.S. Code clearly lays out state sovereignty in making project selections:

**The authorization of the appropriation of Federal funds or their availability for expenditure under this chapter shall in no way infringe on the sovereign rights of the States to determine which projects shall be federally financed. The provisions of this chapter provide for a federally assisted State program.**<sup>15</sup>

To understand how North Carolina will spend both state funds and the IIJA windfall, it is important to look at NCDOT's long-range plan in combination with the STI law.

## North Carolina Strategic Transportation Investments law

In 2013, North Carolina enacted General Statute 136.189.10 and .11—a Strategic Prioritization Funding Plan for Transportation Investments, the STI law.<sup>16</sup> The purpose of the STI law was to establish a data-driven, transparent, and uniform process for assessing and prioritizing competing transportation projects from around the state.<sup>17</sup> It is the foundation for a process of assessing and scoring potential transportation projects that is known by the acronym SPOT. The state is preparing for its sixth project submission and scoring cycle. MPOs anticipate submitting projects for scoring in late summer of 2023. The projects that score highly in this SPOT round will form the state's 2024–2033 Statewide Transportation Improvement Program, which is the NCDOT's official transportation project list and workplan.



The STI scoring system suffers from two substantial design flaws. First, STI and its implementing rules set minimum funding allocations for each transportation mode. According to NCDOT:

**The non-highway minimum floor has remained 4% and highway 90% over multiple prioritization cycles. The remaining 6% is a direct competition between both highway and non-highway modes.<sup>18</sup>**

And while nonhighway projects have done well compared with highway projects, the end result is that NCDOT overwhelmingly funds highway projects. Since 2018, 94 percent of all funding subject to STI has flowed to highway projects with an emphasis on construction and expansion.<sup>19</sup> For fiscal year 2021–2022, maintenance projects accounted for only 28 percent of NCDOT's budget.<sup>20</sup> The STI law will ensure that NCDOT continues to build a transportation system focused on moving more and more cars and trucks for decades to come with only a handful of funds set aside for alternatives to auto mobility.

The STI law groups projects into three categories: statewide strategic mobility (40 percent of funds), regional impact (30 percent of funds), and division needs (30 percent of funds).<sup>21</sup> Statewide mobility project funds may only support highway projects, freight rail projects for Class I railroads, and small amount for airports with more than 375,000 annual enplanements. Public transportation, passenger rail, ferry, and bike and pedestrian projects are ineligible. The problem with this approach to major mobility projects is that the STI law has already determined the mode before scoring candidate projects. It could be that a major passenger or commuter rail project would provide better mobility and economic growth than a highway alternative, but transit is simply ineligible within this category.

**Table 1**





# Strategic Transportation Investments law funding categories

By mode and eligible project type

Mode	Statewide strategic mobility (40%)*	Regional impact (30%)	Division needs (30%)
Aviation	Commercial service airports with international passenger service or with 375,000 or more annual enplanements	Commercial service airports not eligible under <i>statewide strategic mobility</i>	All general aviation airports
Highways	Interstates (existing and future); National Highway System routes; the U.S. Department of Defense Strategic Highway Network; the Appalachian Development Highway System routes; uncompleted intrastate projects; and designated toll facilities	Other U.S. and North Carolina routes	All secondary roads and federal aid eligible local roads
Rail	Freight capacity and safety improvement	Projects on rail lines that span two or more ..	All other projects or rail lines ar ..

Second, the STI scoring process double and triple counts certain project benefits, pushing highway funding toward highway expansion—especially of larger highway facilities. STI scores projects within the statewide mobility category based on nine



project criteria. These include: benefit cost; congestion; safety; economic competitiveness; freight; multimodal; pavement condition; lane width; and shoulder width.

For mobility projects—which include a broad range of project types such as highway widenings, new roadway construction, and intersection improvements, among others—the STI scoring process looks at five of the nine criteria. The subset of five criteria include: congestion (30 percent); benefit-cost (25 percent); freight (25 percent); economic competitiveness (10 percent); and safety (10 percent). Each criteria score for a candidate project is based on one or more analytical measures. Importantly, expected congestion reduction shows up in the analytical measures for three of the categories: congestion, benefit-cost, and economic competitiveness. In addition, facility size is double counted.

## **Congestion**

According to a NCDOT guidance document, a project's congestion score is based on two measures: a volume-to-capacity (V/C) ratio—which measures the number of vehicles on a roadway segment as a ratio of roadway capacity—and overall vehicle volume (V). As a highway becomes more congested, the volume of vehicles approaches or even exceeds the design capacity of the roadway (i.e., the ratio can exceed 1.0). According to STI, the higher the V/C ratio, the higher the score. This measure is intended to direct dollars to those highways with high levels of congestion. The larger the highway expansion, the more the V/C ratio is expected to fall (i.e., congestion improves).

The V measure is intended to direct dollars to larger highway facilities as opposed to smaller ones. Including a measure for volume may seem redundant because V/C already contains volume in the numerator, but the V measure ensures that the STI scoring framework effectively captures facility size. After all, a small two-lane rural highway could have a high V/C ratio—meaning it is congested—but overall carry fewer vehicles than an eight-lane interstate segment, which might have a slightly lower V/C ratio but carry many thousands more vehicles each day. Thus, NCDOT designed the congestion category measures to efficiently direct statewide mobility funds to highways that are both large and congested.

## **Benefit-cost**

The next project category is benefit-cost (B/C). Highway projects vary dramatically in terms of their total cost. A B/C measure allows NCDOT to compare projects of different sizes based on their relative benefits rather than total cost. This category consists of two measures: a B/C ratio that looks at project benefits relative to the cost to NCDOT and a second ratio that looks at the local funding contribution as a ratio to the total project cost.

The first B/C measure adds together the monetized value of anticipated travel time savings (TTS) for drivers during the first 10 years of operation and reduced injuries and fatalities over the same period. Total monetized benefits are expressed as a ratio to the cost to NCDOT for the project. The larger the ratio, the larger the benefit of the project relative to its cost. The second ratio looks at the local financial contribution relative to the total project cost. The higher the ratio, the higher the score. This is intended to reward project submissions that include a substantial local funding commitment, which lowers the state's financial obligation and improves the B/C ratio from the state's perspective.

In the short run, additional highway capacity reduces vehicle delay and generates TTS. The problem is that the monetized value of TTS is already effectively captured by the V/C ratio within the congestion measure. This makes the monetized travel time savings



redundant. However, that is not the only shortcoming of the B/C measure. Congestion benefits tend to be short-lived. Over the medium term, the combination of induced demand and population growth pushes up vehicle volumes, reducing vehicle speeds and causing delays. But the measure avoids dealing with this complexity by only looking at the first 10 years of operations following project completion.

## **Economic competitiveness**

The economic competitiveness category attempts to capture the economic benefits of highway projects. The category includes two measures: the change/increase in statewide economic production and the change/increase in total long-term employment. The data for this category come from an economic production estimating software known as TREDIS. The full set of calculations that generate TREDIS outputs are proprietary. However, according to the firm, the model “translates changes in traffic volumes, vehicle occupancy, speed, distance, reliability, and safety into travel efficiency changes and direct cost savings for household and business travel.”<sup>22</sup>

Depending on the project, a highway investment can increase travel times (TTS), reduce travel distance (TTS), and reduce vehicle operating costs while improving system reliability (TTS). The theory behind the model is that lowering transportation costs by reducing maintenance and increasing TTS encourages firms to relocate or expand their production, boosting statewide economic output and long-term employment. Given these factors, the TREDIS model—like V/C and B/C—captures the short-term congestion benefits from highway expansion projects.

## **Freight**

The STI scoring process effectively double counts facility size by including multiple measures that are strongly correlated with facility size. This has the effect of pushing transportation funds to larger facilities, including interstates and other principal arterial highways. The freight criteria have two measures: freight truck volume and freight truck percentage. Projects with a higher volume and share of freight trucks receive more points. Additionally, the freight criteria award points if the project involves the completion of a future interstate segment.

According to data from the Federal Highway Administration, both single-unit trucks (i.e., those with only two axles) and combination trucks (i.e., those with at least one trailer, also referred to as semitrucks) travel a high percentage of their journey on arterial highways, including interstate highways.<sup>23</sup> Yet, the congestion criteria already include the V measure, which is strongly correlated with facility size. Larger highways have a high volume of vehicles overall as well as a high volume and percentage of trucks. By double counting facility size, STI prioritizes larger highway construction and expansion projects.

## **Safety**

Finally, the STI scoring process double counts safety benefits. For highway projects, STI has two different sets of measures—one for safety improvements to a highway segment and another for safety improvements at an intersection. For highway segments, STI looks at crash density (reported crashes per mile), crash severity, critical crash rate (a complex formula “to identify locations where crash rates are higher than should be expected for a given facility”), and monetized safety benefits over the first 10 years of operations following project completion.<sup>24</sup> For intersections, STI looks at crash frequency and severity as well as the first 10 years of safety benefits.

The safety measures for both highway segments and intersections include the monetized safety benefits from the first 10 years of facility operations following project



completion. Yet, this monetized benefit is already captured within the first B/C ratio in the benefit-cost criteria, resulting in double counting.

Triple counting congestion benefits and double counting facility size matter because these measures skew the types of projects that will score highly under the STI framework. For instance, imagine that two separate MPOs each submit a project for scoring. The first project is an expansion of a congested state highway from four lanes to six. In the short run, the additional highway capacity will improve the V/C ratio, generate TTS, and improve economic competitiveness through time savings and better system reliability. Under STI, these congestion benefits count within three separate criteria: congestion, benefit-cost, and economic competitiveness. Additionally, the expanded facility would have a substantial overall V measure under the congestion criteria as well as a strong freight volume and freight percentage under the freight criteria.

The second project is a redesign of an urban, signalized arterial to improve affordable and safe multimodal access. The project involves converting the curb lane to a bus-only lane, building new dedicated bike lanes and sidewalk improvements, and installing intersection signal prioritization for transit buses. The project is located within an urban area with dense commercial and residential uses, precluding the possibility of roadway expansion. As a result, the MPO has designed a project to boost the productivity of the roadway by increasing the person throughput. Instead of trying to move more vehicles, the project is designed to move more people with safe and affordable public transportation, biking, and walking.

Under STI, a highway project defined as multimodal can earn points for its proximity to other modes. Of the 13 possible multimodal points, nine of them are about proximity. For instance, a multimodal highway project can earn one point for being located within 1 mile of an Amtrak station. It can earn a point for being located within 1 mile of a park-and-ride lot or a ferry terminal, among other locations. A multimodal project can also earn one point for each of the following: the presence of bike and pedestrian facilities, transit signal prioritization, rail-highway grade separation, and running a bus on a highway shoulder. Assuming the candidate project is not located within 1 mile of anything that would generate points, the urban corridor project can only earn two multimodal points—one for transit signal prioritization and another for bike and pedestrian facilities. Compared with the triple counting of congestion benefits and double counting of facility size, it is easy to see why it can be difficult for multimodal projects to outcompete traditional highway projects.

## Durham long-range plan

A metropolitan planning organization is a public agency that is responsible for developing a long-range transportation plan for the entire metropolitan region as well as short-term project implementation lists known as transportation improvement programs in every urbanized area with 50,000 or more residents.<sup>25</sup> According to the U.S. Department of Transportation, there are 420 MPOs in the United States.<sup>26</sup>

The Raleigh-Durham area is served by two MPOs: the Capital Area Metropolitan Planning Organization and the Durham-Chapel Hill-Carrboro Metropolitan Planning Organization. These two MPOs jointly publish a unified long-range plan. The most recent version of the long-range plan is known as Connect 2050. This report will focus on the planning choices made by DCHC.

According to Connect 2050, the DCHC region is expected to add an additional 200,000 residents by 2050, which represents an increase of 42 percent or a compound annual growth rate of 1.2 percent.<sup>27</sup> The plan notes that “[t]he Triangle Region is expected to accommodate substantial future growth ... we need to plan for the region we will become, not just the region we are today.”<sup>28</sup> This line touches on an essential concept



in transportation planning: The future is not fixed, and the investment choices that regions—and states—make will determine the future of land use, growth, and mobility for decades.

In the plan, DCHC lays out a series of progressive mobility, land use, and public health goals. These include building a transportation system that meets the needs of “all populations, especially the aging and youth, economically disadvantaged, mobility impaired, and minorities.” Additionally, the plan calls for expanding affordable and multimodal transportation choice; reducing mobile GHG emissions and energy consumption from transportation; increasing safety; and promoting “public health through transport choices” such as safe and accessible bike and pedestrian facilities.

These are excellent and worthwhile goals for DCHC to pursue. The challenge is aligning actual project investments with high-level progressive goals: “A key challenge for our transportation plans is to match our vision for how our communities should grow with the transportation investments to support this growth.”<sup>29</sup>

For decades, the Raleigh-Durham area has grown rapidly by mostly expanding outward: “[T]he Triangle is a sprawling region and projections are for continued outward growth.”<sup>30</sup> In the past 30 years, NCDOT and local governments have collectively spent more than \$2.8 billion on major highway projects.<sup>31</sup> This has resulted in significant greenfield land consumption for commercial and residential development, increasing congestion. Since the early 1980s, annual hours of delay for auto commuters have increased by 500 percent from roughly eight hours per year to 40 in 2019.<sup>32</sup> The report notes that the Triangle area—like other regions with rapid population and job growth—cannot build its way out of congestion with mega highway projects.

DCHC has taken the bold step to better align its project list with its stated goals by eliminating a number of highway-widening projects. Specifically, DCHC deleted 19 highway projects from its long-range plan, totaling more than \$500 million that would have added 51 lane miles of new or expanded roadways.<sup>33</sup> Even if DCHC had decided to keep these projects in the long-range plan, there is no guarantee that they would all score highly enough to receive state funding. However, the exact prioritization rank of these candidate projects is less important than the structure of the STI law and the disincentive it creates for other regions within the state to emulate DCHC's choice.

The STI law sets expenditure minimums by mode, ensuring that roughly 95 percent of all funds subject to STI flow to highway projects. In short, STI does not allow metropolitan regions attempting to build a more balanced and multimodal transportation system to swap out highway dollars for transit dollars on a one-to-one basis. By removing candidate highway projects from its plan, DCHC risks that dollars that would have flowed to the region for highway construction and expansion will instead be directed to another region within the state.

## North Carolina's long-range plan

In February of 2021, the NCDOT released a new long-range transportation plan called NC Moves 2050.<sup>34</sup> A careful read of the plan reveals a significant mismatch between the vision for the future of mobility in North Carolina and the projects that will receive funding as a result of the STI scoring and prioritization process.

According to the plan, the top objective of transportation investments over the next 30 years is to provide transportation access for all residents and to “[i]mprove quality of life and multimodal access to regional jobs and services.”<sup>35</sup> The key word in the objective is “multimodal,” yet the STI process ensures that approximately 94 percent of transportation expenditures will flow to highway projects.<sup>36</sup> In 2017, the most recent budget year profiled in the plan, just 28.3 percent of transportation expenditures went to maintenance projects, while 48.5 percent went to construction, which covers building



or expanding highways and major roadways. The remaining 23.2 percent went to debt service with much of the debt originally issued to support highway construction projects.<sup>37</sup> The budgetary data show a system heavily skewed toward building new over repairing old facilities and to favoring highways over other modes.

Predictably, residents of North Carolina drive a lot and will soon surpass the national average. According to NCDOT, “[v]ehicles miles traveled (VMT) in North Carolina is projected to surpass the U.S. average and reach 130 billion by 2025 and 183 billion by 2050.”<sup>38</sup> This stark projection runs counter to the expressed desires of state residents. NCDOT conducted extensive public outreach during the planning process and found that “[t]oday most people travel by car, but in the future, there is a desire for more multimodal travel, with a greater number of people selecting modes other than car.”<sup>39</sup> After asking residents about their preferences for the future, the state found that “[t]he importance of traveling by car in the future decreases by 51%” compared with the present.<sup>40</sup>

NCDOT conducted an analysis of more than 300 comments from residents and found that when thinking about the big picture of mobility—as opposed to specific projects or corridors—they overwhelmingly focused on options other than driving. Specifically, 60 percent of comments were about a desire for more public transit, passenger rail, biking and walking, and improvements to the environment, while only 11 percent were about roadway congestion.<sup>41</sup>

The long-range plan states clearly the importance of transit: “For many citizens, transit services mean the difference between being stuck in one place and getting to education, jobs, medical appointments and other needs.”<sup>42</sup> This is especially the case for the 6.3 percent of households—about 254,000—without an automobile.<sup>43</sup> Moreover, large portions of the state are aging rapidly. According to the state, in 76 of the 100 counties, the number of residents older than the age of 60 is greater than the number of residents younger than 18.<sup>44</sup> This creates mobility and transportation affordability challenges that are not well addressed by a transportation system geared to support driving and private vehicle ownership.

The effective cap on multimodal project spending created by STI presents a significant barrier to building the balanced, safe, and affordable transportation system that residents clearly want. Again, the long-range plan states the challenges clearly when it comes to nonmotorized alternatives to driving. “Retrofitting North Carolina communities and roadways to include biking and walking facilities can be challenging and costly.”<sup>45</sup> Moreover, “Many North Carolina communities built between the 1940s and the 1990s, especially suburbs, were built without bicycle and pedestrian infrastructure, leaving large gaps in bicycle and pedestrian networks.”<sup>46</sup> Unfortunately, “Relative to the full NCDOT budget, bicycle and pedestrian transportation receives very little dedicated funding.”<sup>47</sup> This is especially problematic for nonmetropolitan areas, which also tend to have older residents. “Rural communities lack the resources and funding to improve their communities for walking and bicycling on their own.”<sup>48</sup>

Finally, while NC Moves 2050 does not include reducing GHG emissions as an explicit goal, it does note the major challenges facing the state unleashed by climate change. “Sea level is projected to rise over the next 100 years. A moderate global sea level rise scenario suggests sea level along the North Carolina coast could increase by 4 to 5 feet.”<sup>49</sup> Climate change will also bring about more acute and dangerous storms, causing damage and destruction to state transportation facilities. “It is likely there will be an increase in major hurricanes with higher amounts of rainfall.”<sup>50</sup>

NCDOT engaged in years of careful planning and community outreach to develop NC Moves 2050. The resulting product is a serious attempt to address the needs of residents in a sustainable and equitable way while supporting robust economic growth. However, the STI law effectively binds the hands of state officials due to its scoring and



prioritization process, ensuring a gulf between those investments desired by citizens and what will be built over the next three decades.

## Gov. Roy Cooper's executive order on climate change

The current STI also hampers the policy goals of the governor. On January 7, 2022, Gov. Cooper signed Executive Order 246: North Carolina's Transformation to a Clean, Equitable Economy.<sup>51</sup> The order sets out multiple aggressive climate and equity goals, including requiring state agencies to undertake actions to “[r]educe statewide GHG emissions to at least 50 percent below 2005 levels by 2030 and achieve net-zero emissions as soon as possible, no later than 2050.”<sup>52</sup> Additionally, Executive Order 246 requires North Carolina state agencies to “incorporate environmental justice and equity considerations and benefits in the implementation of this Executive Order.”<sup>53</sup>

Yet, the state's STI law and its prioritization of highway projects—especially expansion—will substantially inhibit the accomplishment of these urgent, progressive goals. The principal reason is that the STI scoring process does not award points for many of the outcomes listed by Executive Order 246. The order states that cabinet agencies must invest federal and state transportation funds “consistent with applicable law” to “reduce GHG emissions and air pollution, promote resiliency, invest in historically underserved communities, increase affordability for low- and moderate-income households, advance health equity, and create jobs and economic growth through a clean North Carolina economy.”<sup>54</sup>

The “applicable law” for surface transportation is the STI law and its implementing rules, which direct 94 percent of funds to highway projects. These investments are intended to increase vehicle throughput by constructing and expanding signalized and controlled-access arterial highways. Depending on the project type, STI awards points to candidate highway projects based on factors such as lane width, congestion severity, travel time savings, commercial truck volumes, and crash rates, among others.<sup>55</sup> Excluded from the scoring system are considerations for climate emissions, Clean Air Act criteria pollutants, resiliency, redressing underinvestment in historically disadvantaged areas, and reducing household transportation costs. In fact, the highway-centric approach to transportation locks residents into expensive vehicle ownership.

Additionally, Executive Order 246 directs the NCDOT to develop a clean transportation plan. The plan must include actionable strategies to reduce driving; expand equitable access to clean mobility options such as electric scooters and bicycles; and increase access to nonvehicle transportation modes, including transit, passenger rail, biking, and walking. Again, the limited pool of dollars set aside for nonhighway projects makes it difficult to provide safe and affordable mobility alternatives to driving. In fact, NCDOT is prohibited from using state transportation funds on independent bicycle and pedestrian projects.<sup>56</sup> Only certain federal funds may be used for these projects, and they are scored within the division needs category.<sup>57</sup>

The STI law and its prioritization of highway projects undermines another aspect of Executive Order 246: carbon sequestration. Achieving the goal of statewide net-zero GHG emissions by 2050 will rely on preserving and even expanding the carbon sequestration provided by natural carbon sinks such as undeveloped forest lands, which the state calls “above ground biomass.”<sup>58</sup> According to the most recent carbon emissions inventory by the North Carolina Department of Environmental Quality, “In 2018, net carbon sinks offset North Carolina's GHG emissions by an estimated 42.1 [million metric tons of carbon dioxide equivalents], which is about 26% of the State's gross emissions in that year.”<sup>59</sup>

The loss of pristine land serving as carbon sinks to exurban development in North Carolina is not a theoretical challenge. For instance, according to federal government



data on land use, from 2001 to 2019, the total developed area of the Raleigh-Durham metropolitan area increased by 35.2 percent.<sup>60</sup> This translates to an average annual growth rate of 2 percent.<sup>61</sup> If this rate of growth were to continue, developed land within the metro area would increase by an additional 50 percent from 2022 to 2050.<sup>62</sup>

Raleigh-Durham-Cary, NC CSA developed land, 2001–2009. Source: Map produced with data from the Multi-Resolution Land Characteristics Consortium, "National Land Cover Database" (2001 and 2019).

North Carolina needs the carbon sequestration provided by nature to offset emissions that will be difficult, if not impossible, to mitigate by midcentury. This will require the state to slow the outward expansion of low-density development on the fringes of its urban areas by supporting economic growth within its existing metropolitan footprint. Growing in and up instead of out will require a fundamentally different project mix focused on moving people instead of cars. And that will require a significant reform of STI.

Gov. Cooper has laid out an ambitious vision for a future in which North Carolina has a truly sustainable and equitable transportation system. The roadblock to achieving that vision is STI.

## Alternative project scoring

The STI scoring systems should eliminate the redundant congestion measures and replace them with measures that strongly correlate with improved sustainability, equity, and access. Additionally, the legislature should remove spending mandates tied to specific transportation modes. The purpose of transportation investments is to build a system that delivers the greatest economic, environmental, and social return on investments regardless of mode.

Importantly, this does not mean that transportation plans and project scoring systems should attempt to be neutral about mode but rather that the process of project selection should focus on outcomes as opposed to modal expenditure minimums or maximums.

For instance, North Carolina should adopt reducing vehicle miles of travel as a performance goal, rewarding projects that reduce both the frequency and distance of auto trips. Achieving this goal will require a mix of transit, highway, and system management projects. These could include better pedestrian and cycling infrastructure, automated speed enforcement, intersection signal prioritization for transit vehicles, dedicated bus lanes, and congestion pricing, among other system improvements. The essential characteristic that these projects all share is that they help to shift travel demand away from driving and toward transit and nonmotorized trips. The exact proportion of highway, transit, and system management expenditures is irrelevant.

The following list represents a sample of alternative system performance measures that would advance a more sustainable, equitable, and productive transportation system in North Carolina. Some of these measures are binary while others exist on a measurable continuum. For instance, a section of roadway may lack pedestrian and bicycle facilities and features. Under a reformed STI scoring system, a project to add those elements would receive a certain fixed allotment of points. By comparison, GHG emissions would exist on a continuum. A project to deploy automated speed enforcement cameras would have a different emissions profile than a project to convert a general-purpose travel lane into a dedicated bus lane. Under a reformed STI, those projects that would achieve greater GHG reductions would receive a higher environmental score. Alternative performance measures could include:



- **Equity/historical disinvestment:** A measure of historic patterns of discrimination, disinvestment, and geographic isolation with a goal of redressing historical inequity and barriers to opportunity.
- **Household transportation cost:** A measure of the cost burden of transportation, which is the second-largest expense after housing for most Americans. Its goal is to reduce household expenditures on transportation principally by reducing dependence on driving and the need for private vehicle ownership.
- **Greenhouse gas emissions:** A measure of total and per capita GHG emissions, with a goal of eliminating GHG emissions from surface transportation.
- **Vehicle miles traveled:** A measure of both the total and per capital amount of driving each year with a goal of reducing vehicle miles traveled on both a per capita and total basis.
- **Grid connectivity:** A measure of the extent to which the surface transportation system provides alternative routes or funnels users onto a limited number of arterial roadway corridors. Greater grid connectivity typically reduces trip distances and congestion. The goal of this measure is to increase grid connectivity.
- **Efficiency/person throughput:** A measure of the number of people who move through a corridor a particular interval of time. Transit and nonmotorized facilities move more people through a corridor than facilities designed to principally serve automobiles. The measure's goal is to increase the person throughput of transportation corridors.
- **Nonmotorized mode share:** A measure of the percentage of trips taken other than by driving or public transportation, with a goal of increasing the share of trips taken by biking and walking.
- **Transit mode share:** A measure of the percentage of trips taken on public transportation with a goal of increasing the share of trips taken by transit.
- **Transit accessibility:** A measure of the share of jobs, housing, and essential services that may be reached by transit within a given travel time, such as 45 minutes. Greater transit accessibility increases ridership. The goal is to increase the share of jobs, housing, and essential services accessible by transit within a reasonable travel time.
- **Average distance to transit:** A measure that looks at the average distance from transit lines to commercial and residential parcels. Greater transit service proximity increases ridership. This measure's goal is to reduce the average distance to high-frequency transit service.
- **Transit headways:** A measure of the peak period and off-peak period wait times between transit vehicles. Frequent transit service is useful transit service. The measure's goal is to reduce transit headways.
- **Nonmotorized facilities:** A measure of the presence of infrastructure dedicated to nonmotorized users, with a goal of increasing the share of roadways with dedicated, robust nonmotorized infrastructure and traffic control systems.
- **Safety:** A measure of the extent to which a project would reduce major injuries and fatalities with additional weight given to those projects that would reduce injuries and fatalities for vulnerable roadway users. The goal is to reduce major injuries and fatalities from transportation accidents—especially those involving vulnerable users.



**Asset conditions:** A measure of the state of disrepair of surface transportation

- facilities, including roadways, bridges, transit vehicles, and associated facilities, with a goal of increasing the share of transportation facilities in a state of good repair.

Finally, the availability and uniformity of certain data mean that easy-to-assess project elements have an outsize influence on project selection. There is an old saying that comes from the world of management science: Not everything that can be measured matters, and not everything that matters can be measured.

For instance, the STI process includes points for lane width when scoring candidate highway modernization projects. Lane width is a basic piece of information that NCDOT and local governments have about the entire highway network. The uniformity and availability of this data make it easy to include in the composite score of a proposed highway project. However, the role of lane width in transportation safety is at best contested.

A major study released by the Federal Highway Administration in 2021 summarized the overall findings on lane width as follows: “In the literature, there is consensus that narrower lane widths lead to reduced average travel speeds.”<sup>63</sup> This is not a minor point. In recent years, roadway fatalities have risen dramatically. According to the National Highway Traffic Safety Administration, “the main behaviors that drove this increase include: impaired driving, speeding and failure to wear a seat belt.”<sup>64</sup> Wider lanes encourage one of the major causes of roadway crashes that lead to major injuries and fatalities: speeding.

What if the best way to improve transportation safety is to narrow lanes? This would slow traffic and likely reduce crashes and crash severity. The state could use the savings from laying down less pavement to fund better enforcement of existing laws to combat impairment, speeding, and failure to wear a seatbelt.

The ubiquity and uniformity of certain project characteristics such as lane width can end up having an outsize—and even counterproductive—role in project selection. Conversely, NCDOT may not be able to predict with fine-grained specificity exactly how many more nonmotorized trips residents will take or how many lives will be saved by building sidewalks, protected bike lanes, and raised crosswalks, but this should not preclude a comprehensive build-out of these facilities.

The iron law of transportation is this: Building infrastructure for cars leads to more driving, while building infrastructure that supports safe and affordable transit, biking, and walking leads to more ridership and less driving. Data should supplement but not supplant this understanding. Focusing on data availability and uniformity can lose the forest for the trees.

## Conclusion

The time for North Carolina to revise STI is now. The flow of IIJA money makes it essential that the state legislature make fundamental changes to how projects are reviewed and selected for state and federal funding. Without reform, STI will continue to funnel roughly 94 percent of surface transportation spending to highway projects with an emphasis on expansion. This will lock in driving and auto dependence for decades to come. The state legislature should adopt evaluation criteria that elevate transportation projects that move people safely and efficiently as opposed to projects focused on vehicle throughput. In short, STI should reward regions and projects that provide safe, affordable, sustainable, and equitable mobility.



## Endnotes

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- 1 U.S. Department of Transportation, “Bipartisan Infrastructure Law,” available at <https://www.fhwa.dot.gov/bipartisan-infrastructure-law/> (last accessed March 2022).
- 2 American Association of State Highways and Transportation Officials, “Transportation Governance and Finance: A 50-State Review of State Legislatures and Departments of Transportation” (Washington: 2016), available at [http://www.financingtransportation.org/pdf/50\\_state\\_review\\_nov16.pdf](http://www.financingtransportation.org/pdf/50_state_review_nov16.pdf).
- 3 State of North Carolina, “Executive Order 246: North Carolina’s Transformation to a Clean, Equitable Economy,” January 7, 2022, available at <https://governor.nc.gov/media/2907/open>.
- 4 The results of STI are a combination of explicit mandates in the law and the implementation rules set out by a working group. In general, any references to STI are intended to cover both the law and its implementing regulations. See North Carolina Department of Transportation, “Prioritization 6.0 Submittal Guidance and Resources” (Raleigh: 2019), available at <https://connect.ncdot.gov/projects/planning/Prioritization%20Data/Prioritization%206.0/Submittal%20Guidance/Prioritization%206.0%20Submittal%20Guidance%20and%20Resources%20-%2010-14-19.pdf>.
- 5 American Association of State Highways and Transportation Officials, “Transportation Governance and Finance.”
- 6 Arizona State Legislature, “Constitution,” available at [https://www.azleg.gov/const/arizona\\_constitution.pdf](https://www.azleg.gov/const/arizona_constitution.pdf) (last accessed March 2022).
- 7 South Dakota Secretary of State, “South Dakota Constitution,” available at <https://sdsos.gov/general-information/about-state-south-dakota/docs/2019SouthDakotaConstitution20190107.pdf> (last accessed March 2022).
- 8 Ballotpedia, “Amendments, Arkansas Constitution,” available at [https://ballotpedia.org/Amendments,\\_Arkansas\\_Constitution](https://ballotpedia.org/Amendments,_Arkansas_Constitution) (last accessed March 2022).
- 9 The first federally funded road in U.S. history dates back to the Cumberland Road Act of 1806. The act called for the building of “a road from the head of navigation on the Potomac River at Cumberland, MD, to a point on the Ohio River.” The road came to be known as the National Road, and construction lasted from 1811 to 1837. The facility predates the funding appropriated for post roads, but it is an outlier and did not substantially inform the federal aid program structure in place today. U.S. Department of Transportation, “Back in Time: The National Road,” available at <https://www.fhwa.dot.gov/infrastructure/backo103.cfm> (last accessed March 2022).
- 10 Post Office Department Appropriations Act of 1913, H.R. 21279, 62nd Cong., 2nd sess. (August 24, 1912), available at <https://govtrackus.s3.amazonaws.com/legislink/pdf/stat/37/STATUTE-37-Pg539.pdf>.
- 11 U.S. Department of Transportation, “FHWA By Day: August 24,” available at <https://www.fhwa.dot.gov/byday/fhbdo824.htm> (last accessed March 2022).
- 12 Rural Post Roads Act of 1916, S. 3346, 64th Cong., 1st sess. (July 11, 1916), available at <https://govtrackus.s3.amazonaws.com/legislink/pdf/stat/39/STATUTE-39-Pg355a.pdf>.
- 13 Federal-Aid Highway Act of 1944, Public Law 521, 78th Cong., 2nd sess. (December 20, 1944), available at <https://govtrackus.s3.amazonaws.com/legislink/pdf/stat/58/STATUTE-58-Pg838a.pdf>.
- 14 Federal-Aid Highway Act of 1956, Public Law 27, 84th Cong., 2nd sess. (June 29, 1956), available at <https://www.govinfo.gov/content/pkg/STATUTE-70/pdf/STATUTE-70-Pg374.pdf>.
- 15 Cornell University, “23 U.S. Code § 145 – Federal-State Relationship,” available at <https://www.law.cornell.edu/uscode/text/23/145> (last accessed March 2022).
- 16 North Carolina General Assembly, “Article 14B Strategic Prioritization Funding Plan for Transportation Investments,” available at



[https://www.ncleg.gov/EnactedLegislation/Statutes/PDF/ByArticle/Chapter\\_136/Article\\_14B.pdf](https://www.ncleg.gov/EnactedLegislation/Statutes/PDF/ByArticle/Chapter_136/Article_14B.pdf)  
(last accessed March 2022).

- 17 North Carolina Department of Transportation, "Strategic Transportation Investments," available at <https://www.ncdot.gov/initiatives-policies/Transportation/stip/Pages/strategic-transportation-investments.aspx> (last accessed March 2022).
- 18 North Carolina Department of Transportation, "Prioritization 6.o Submittal Guidance and Resources."
- 19 Ibid.
- 20 North Carolina Department of Transportation, "Uses of 2020-21 NCDOT Appropriations," available at <https://www.ncdot.gov/about-us/how-we-operate/finance-budget/Documents/2020-ncdot-funding-distribution.pdf> (last accessed June 2022).
- 21 North Carolina Department of Transportation, "Prioritization 6.o Submittal Guidance and Resources."
- 22 TREDIS, "Inside TREDIS," available at <https://www.tredis.com/products/product-overview/inside-tredis> (last accessed March 2022).
- 23 Congressional Budget Office, "Issues and Options for a Tax on Vehicle Miles Traveled by Commercial Trucks" (Washington: 2019), available at <https://www.cbo.gov/system/files/2019-10/55688-CBO-VMT-Tax.pdf>.
- 24 North Carolina Department of Transportation, "Prioritization 6.o Submittal Guidance and Resources."
- 25 Cornell University, "23 U.S. Code 134 —Metropolitan Transportation Planning," available at <https://www.law.cornell.edu/uscode/text/23/134> (last accessed March 2022).
- 26 U.S. Department of Transportation, "Metropolitan Planning Organization (MPO) Database," available at <https://www.planning.dot.gov/mpo/default.aspx> (last accessed March 2022).
- 27 Results based on author's calculation from Capital Area Metropolitan Planning Organization and the Durham-Chapel Hill-Carrboro Metropolitan Planning Organization, "Connect 2050: The Research Triangle Region's Metropolitan Transportation Plan" (2022), available at <https://www.dchcmppo.org/home/showpublisheddocument/3842/637781272428930000>.
- 28 Ibid.
- 29 Ibid.
- 30 Ibid.
- 31 Ibid.
- 32 Ibid. Author's calculation.
- 33 Results based on author's calculation from data provided by the Durham-Chapel Hill-Carrboro Metropolitan Planning Organization via email, March 8, 2022, on file with author.
- 34 North Carolina Department of Transportation, "NC Moves 2050 Plan" (Raleigh: 2021), available at <https://www.ncdot.gov/initiatives-policies/Transportation/nc-2050-plan/Documents/nc-moves-final-plan.pdf>.
- 35 Ibid.
- 36 North Carolina Department of Transportation, "Prioritization 6.o Submittal Guidance and Resources."
- 37 North Carolina Department of Transportation, "NC Moves 2050 Plan."
- 38 Ibid.
- 39 Ibid.
- 40 Ibid.
- 41 Ibid.

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<sup>12</sup> Ibid.

<sup>13</sup> Result based on author's calculation of U.S. Census Bureau, "Quick Facts: North Carolina," available at <https://www.census.gov/quickfacts/NC> (last accessed June 2022); North Carolina Department of Transportation, "NC Moves 2050 Plan."

<sup>14</sup> North Carolina Department of Transportation, "NC Moves 2050 Plan."

<sup>15</sup> Ibid.

<sup>16</sup> Ibid.

<sup>17</sup> Ibid.

<sup>18</sup> Ibid.

<sup>19</sup> Ibid.

<sup>20</sup> Ibid.

<sup>51</sup> State of North Carolina, "Executive Order 246: North Carolina's Transformation to a Clean, Equitable Economy."

<sup>52</sup> Ibid.

<sup>53</sup> Ibid.

<sup>54</sup> Ibid.

<sup>55</sup> North Carolina Department of Transportation, "Prioritization 6.0 Submittal Guidance and Resources."

<sup>56</sup> Ibid.

<sup>57</sup> Cornell University Legal Information Institute, "23 U.S. Code § 133 – Surface transportation block grant program," available at <https://www.law.cornell.edu/uscode/text/23/133> (last accessed June 2022).

<sup>58</sup> North Carolina Department of Environmental Quality, "North Carolina Greenhouse Gas Inventory (1990-2030)" (Raleigh: 2022), available at <https://deq.nc.gov/media/27070/download?attachment>.

<sup>59</sup> Ibid.

<sup>60</sup> Result based on author's calculation from Multi-Resolution Land Characteristics Consortium, "National Land Cover Database (NLCD): 2001 and 2019," available at <https://www.mrlc.gov/data> (last accessed July 2022).

<sup>61</sup> Ibid.

<sup>62</sup> Ibid.

<sup>63</sup> Federal Highway Administration, "Narrowing Freeway Lanes and Shoulders to Create Additional Travel Lanes" (Washington: 2021), available at <https://www.fhwa.dot.gov/publications/research/operations/21005/21005.pdf>.

<sup>64</sup> National Highway Traffic Safety Administration, "2020 Fatality Data Show Increased Traffic Fatalities During Pandemic: Risky Driving Behaviors Including Failure to Wear a Seatbelt, Speeding, and Drinking While Driving Identified as Contributing Factors," Press release, June 3, 2021, available at <https://www.nhtsa.gov/press-releases/2020-fatality-data-show-increased-traffic-fatalities-during-pandemic>.



## TRANSIT TIME

# When the drive-thru is deadly

Cars are striking buildings at a rising pace, figures show

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*You're reading Transit Time, a weekly newsletter for Charlotte people who leave the house. Cars, buses, light rail, bikes, scooters ... if you use it to get around the city, we write about it. Transit Time is produced in partnership among [The Charlotte Ledger](#), [WFAE](#) and the [UNC Charlotte Urban Institute](#).*

***Editor's note:** This article was published earlier this week by [The Food Section](#), a twice-weekly newsletter covering food and drink across the American South. It is republished with permission. The Food Section is an independent, journalist-run publication that reports on stories not pitched by publicists. You can [find out more about The Food Section here](#), and [Ledger readers can subscribe at a 25% discount](#).*

**Vehicles slam into restaurants, causing 18 deaths across the South since 2016; experts debate how to guard against 'pedal error'**





**Four people were hospitalized after a car smashed into a Chipotle in Woodbridge, Va. (Photo by Prince William County Department of Fire and Rescue)**

*by Hanna Raskin*

Cecil Patterson, the third speaker at the Aug. 20 joint funeral of Christopher and Clay Ruffin, seemed like an unlikely person to eulogize the brothers.

Patterson didn't drive buses with Chris, 58, at Fike High School, or dote on the 62-year-old Clay's little granddaughter the way that her proud Papa did. As a white man in a short-sleeved salmon button-down shirt, Patterson stood out at L.N. Forbes Original Free Will Baptist Tabernacle, a predominantly Black church in the town of Wilson, east of Raleigh.

But as he haltingly explained to the assembled mourners, "Sunday morning, I was at Hardee's when it happened. ... Everybody in there crying and carrying on. I guess I was probably the last person..."

The Ruffins were having breakfast at Hardee's on Aug. 14 when a 78-year-old man leaving a nearby car wash lost control of his Lincoln Aviator, smashing into the plate glass window alongside the Ruffins' table with so much force that glass shards showered the front counter. The scene was horrific, with a 7-year-old boy trapped beneath the SUV and limbs severed by the impact.

"We need help and help bad," a 911 caller from the restaurant told a dispatcher.



Deadly car crashes inside buildings represent a tiny fraction of traffic fatalities. According to the National Highway Traffic Safety Administration, 13 people were killed by cars while in or on a building in 2020, just above the annual average for such incidents. By contrast, the agency recorded 38,824 total traffic fatalities that year.

Yet safety advocates are concerned about how frequently cars have been striking buildings, particularly as the population of elderly drivers edges upward and the overall number of fatal crashes has surged nationwide. Data from the Storefront Safety Council shows commercial buildings are hit by cars 100 times a day, on average, with restaurants accounting for roughly one-quarter of those incidents.

Many of those collisions are soft taps that amount to nothing more than insurance headaches. But at fast-service restaurants, where parking spots are conveniently located close to the building and patrons tend to cluster by the windows, serious injuries can result when a driver plows into the dining room at high speed.

Just a day after the Ruffins were killed, a 70-year-old man in Raleigh mistook his Toyota's gas pedal for his brake, wrecking the outdoor deck of Rudino's Sports Corner.

The next day, a woman who thought she was backing out of This Is It! Southern Kitchen & Bar-B-Q in Riverdale, Ga., instead drove through the front door, sending one person to the hospital.

"It's one thing if you're in warfare and bombs are going off," says Rob Reiter, co-founder of the Storefront Safety Council. "But if you're sitting in a restaurant, the PTSD is usually because it's so violent and unforeseen: You have your back to the street and the next thing you know, you're 30 feet down with a table on top of you."

## **A focus on crashes into buildings**

Reiter chanced into the field of car crashes involving retail buildings after a career in high security, which involved mostly stateside assignments in the wake of 9/11.

"We started putting barriers in front of courthouses and NFL stadiums and all the places we thought Osama was going to drive a truck bomb into," Reiter says, adding that he considered the efforts successful since "the only people driving into the barriers were drunks."

Once Reiter started thinking about vehicles creating havoc in places where they don't belong, he noticed the topic popping up in the news. After an 86-year-old man in 2003 confused his Buick's accelerator with its brake, boring through a Santa Monica, California farmers market and killing 10 people, Reiter created a national incident database.





**Two people were hospitalized after a car crashed into Sylvan Park Restaurant in Murfreesboro, Tenn. (Photo by Murfreesboro Police Department)**

Between 2014 and 2022, his consulting firm documented more than 25,000 media reports of storefront crashes. The Storefront Safety Council defines a storefront crash broadly: For example, if a car nicked an Arby's sign in the parking lot, or a truck spun into a former Ruby Tuesday, those incidents would merit entries in the neatly categorized spreadsheet.

A review of 523 incidents associated with restaurants in Southern states shows that there were 182 injurious car crashes inside Southern restaurants between Jan. 1, 2016, and the day of the Wilson, North Carolina, tragedy.

In more than half of those crashes, at least one of the injuries requiring medical attention was sustained by an employee or patron. Fifteen of the crashes caused one or more fatalities.

As Reiter likes to point out, restaurant workers and customers aren't protected by airbags and thousands of pounds of steel. Some of the wrecks with injuries include:

- Drink machines toppling on patrons, as happened to a woman at a Panda Express in Wilmington in 2020. A 78-year-old SUV driver dislodged the soda fountain when he slammed into the side of the restaurant, having mistaken the gas for the brake.
- Gas lines rupturing. After a man in 2018 lost consciousness and drove his van into an Outback Steakhouse in Savannah, Ga., part of the ceiling collapsed and gas filled the kitchen, igniting flames that lashed six employees and the restaurant's owner.



- Broken bones, such as those experienced after a car rammed the table shared by 12 members of the Phipps family at La Bamba Mexican Restaurant in Greensboro last year.

### **‘Pedal error’ a recurring factor**

Because Reiter’s database is based on preliminary reports, it’s impossible to draw conclusions about the leading cause of car crashes in restaurants across the region. In close to half of the injurious incidents, authorities were still trying to determine how a car ended up in the building.

In rare instances, that’s where the driver meant to put it.

For example, after an 80-year-old man in 2019 fought with another patron of 20’s Pub & Sub in Macon, Ga., he left the restaurant and then came back inside. Except this time, he was behind the wheel of a Chevy Colorado.

Other restaurant crashes are attributed to distracted driving. “The driver told investigators she was overwhelmed because her boyfriend broke up with her over the phone as she was driving,” an Atlanta TV station reported following an April crash into Brockett Pub House and Grill that destroyed an adjoining liquor store.

Alcohol and medical conditions also figure into injurious restaurant crashes, but the phrase that predominates the coverage is “pedal error.”

Douglas Young, a kinesiologist, has been studying pedal error since the 1980s.

“Drivers started to make claims about their vehicles running away and believing there was something that caused their car to accelerate even though they were pressing the brake,” Young says.

Young and a colleague reviewed North Carolina police reports from 1979 to 1995, looking for any evidence that vehicle defects were responsible for cars speeding up instead of stopping. The title of their study, published in 2010, is a total spoiler: “Cars Gone Wild: The Major Contributor to Unintended Acceleration in Automobiles is Pedal Error.”

In other words, drivers choose wrongly.





Inside Sylvan Park Restaurant/ Murfreesboro Police Department

## Changing designs of cars or parking lots?

According to Young, that makes the problem difficult to fix. He flatly rejects suggestions that pedal errors would decline if cars were designed differently. After all, “there is no design that can stop a driver if he or she puts a foot on the accelerator,” regardless of its shape, size or placement.

Reiter agrees that it makes little sense to try changing cars or the people controlling them.

“People have been trying to change driver behavior since they invented drivers, with very little success,” he says. “Look at seatbelts or cell phones.”

That’s why Reiter maintains the way to reduce restaurant crashes is to reconfigure parking lots.

First, Reiter would relocate accessible parking spaces. Never mind that putting disabled drivers at a greater distance from the restaurant door would violate federal law, or that the opinion is so frankly ableist that even Reiter admits he’s had trouble finding a sympathetic audience for it.

“If you go to your state’s DMV and you read what you need for an ADA tag, you’ll think people like that shouldn’t even be driving,” he says. “Congestive heart failure or neurological problems? Why would you aim that at a building? And why would you be surprised that if you aim something at a building, that something goes through the building?”



Second, and less controversially, Reiter would do away with nose-in parking. He reasons that if drivers pump the accelerator instead of the brake when they're pointed toward the street, they stand to do less damage.

Finally, Reiter is a big fan of bollards. Harking back to the days when he set up barriers around potential terrorist targets, he wants restaurants to erect heavy-duty steel posts around their perimeters.

"It's a cheap and easy solution," he says. "If you just spend \$600 to put in a bollard, you can save a life."

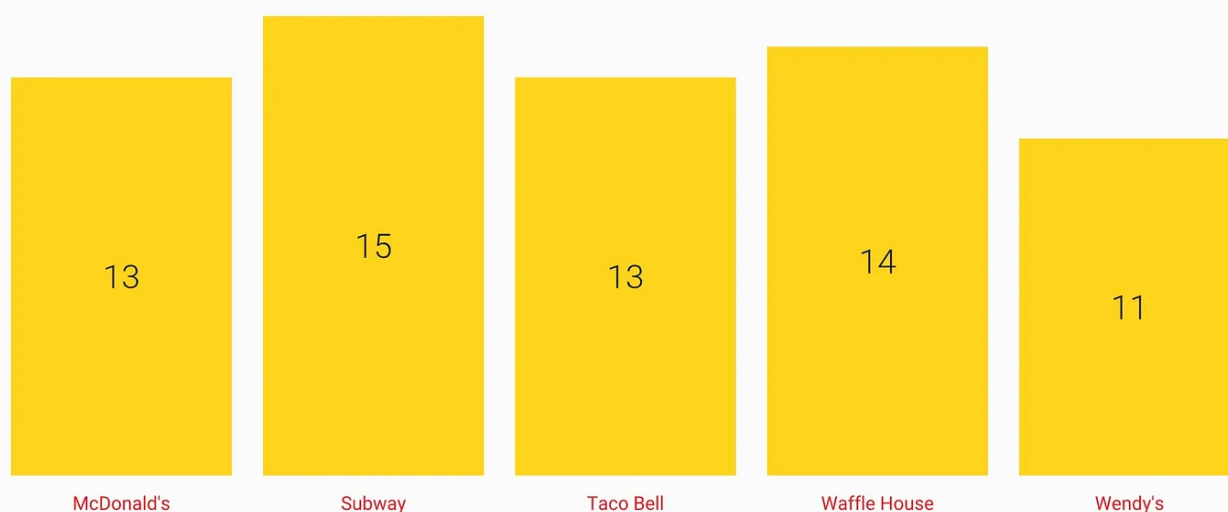
Not everyone is so smitten with bollards.

"You can try, but you would have a world full of bollards and different accidents emerging with bicyclists or whatever," Young says. "You can't really design the environment to prevent these kinds of accidents."

Nor does it appear that chain restaurants anxious to maximize profitability are in any rush to do so. Reiter is astounded that restaurants such as Applebee's have introduced to-go parking spots, encouraging customers to idle their cars close to the kitchen and compose text messages announcing their arrival.

### Restaurants with more than 10 crashes at Southern locations

2016-2022





Representatives of McDonald's, Subway, Taco Bell, Wendy's, and Waffle House, which led the list of injurious crash sites in the South, did not return messages seeking comment.

"I can't blame Hardee's," says Carolyn Etheridge, who was eating at the Wilson restaurant at the time of the fatal crash. Her car was totaled after one of the victims was ejected from the restaurant and went through it. "It wasn't their fault. I think [the driver] tried to go across those five lanes of traffic and then when he did that, sure enough, he didn't have enough time to brake."

## **Traumatic memories**

While the layout and ubiquity of fast-food restaurants means they're more likely to be associated with multiple crashes, independent restaurants get hit by cars, too.

Johnson's Drive-In in Siler City, south of Greensboro, was struck on Oct. 8, 2021. The driver of an SUV lost control of his vehicle, injuring three people and killing a 64-year-old pastor.

"You never think something is going to happen like this on your property to people who depend on you and trust you to feed them," owner Carolyn Johnson Routh was quoted as saying at the time.

I was photographing one of Johnson's famous cheeseburgers when Routh came outside to greet me. I explained that I was a reporter and wondered if she'd be willing to talk about her business being closed for months.

"It's not PTSD or anything, but it's very hard to talk about," she said. "This sounds bad, but I try to put it out of my mind."

When the SUV tore through the east wall of the brick building, Routh was sitting in that part of the restaurant.

She hasn't gone back to that section since.

*Hanna Raskin is a James Beard award-winning food writer in Charleston who founded The Food Section in September 2021. Her publication is currently a finalist in the Best Newsletter division of the International Association of Culinary Professionals and Online News Association's awards contests.*

## **In brief...**



- **CATS plans on-demand service:** The Charlotte Area Transit System plans to offer an Uber-like ride service in five areas of Charlotte starting next year: the University area, Hidden Valley, Camp North End, Pine Valley and Carolina Place area and the airport vicinity. A CATS planner said: “It’s a more flexible service that is appropriate for areas that can’t support ... [a] 40-foot bus [with] 30-some-odd seats on it, whereas [with] microtransit, it’s a smaller vehicle. It’s more about right-sizing services to the ridership.” ([Axios Charlotte](#))
- **City delays Saturday parking meter charges.** The city of Charlotte is delaying a plan to start charging for weekend parking at metered spaces, which was supposed to go into effect last weekend. Charlotte had planned to start charging \$1.50 an hour on Saturdays for metered spaces in uptown and South End. Instead, the spaces will remain free to use on Saturdays until “later next year.” The city is conducting “an overall review and action plan for on-street parking and curb space management.” ([City of Charlotte](#))
- **Driggs to head transportation committee:** Charlotte Mayor Vi Lyles named Republican Ed Driggs as the chairman of the City Council’s transportation, planning and development committee. Council-watchers saw the appointment of Driggs, who has been skeptical of some of the city’s transit ambitions, as a sign that the proposed \$13.5 billion transit plan would likely be scaled back.
- **Charlotte transportation summit:** South Charlotte Partners is holding a regional transportation summit on Monday from 8:30 a.m. - 3 p.m. at the Ballantyne hotel called “Transportation in the 21st Century.” It will include a variety of speakers discussing transportation and mobility in the south Charlotte region and beyond. [Details here.](#)

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