HIGHWAY BOONDOGGLES 4
Big Projects.
Bigger Price Tags.
Limited Benefits.

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# Table of Contents

**Executive Summary** ................................................................. 4

**Introduction** ........................................................................... 8

**The Problem with Highway Boondoggles** .................................... 9

- Highway Expansion Takes Money from Other Transportation Priorities ........................................... 9
- Highway Expansion Saddles States with Costly Debt ........................................................................ 10
- Highway Expansion Doesn’t Solve Congestion .................................................................................. 11
- Highway Expansion Damages the Environment and Our Communities .............................................. 12

**Highway Boondoggles 2018** ......................................................... 13

- “Traffic Relief Plan,” Maryland ........................................................................................................... 14
- I-49 Inner City Connection, Shreveport, Louisiana ............................................................................. 16
- U.S. Highway 101 Expansion, San Mateo, California ........................................................................... 17
- Interstate 35 Expansion, Austin, Texas ................................................................................................. 19
- LBJ East Expansion, Dallas, Texas ........................................................................................................ 20
- Pennsylvania Turnpike Expansion ...................................................................................................... 21
- I-94 North South Expansion, Wisconsin ............................................................................................... 22
- I-285 & SR 400 Interchange Rebuilding, Atlanta, Georgia ..................................................................... 23
- North Spokane Corridor, Spokane, Washington .................................................................................... 24

**Catching up on Old Boondoggles** .................................................. 25

- 2017 Projects ................................................................................. 25
- 2016 Projects ................................................................................ 27
- 2014 Projects ................................................................................ 30

**Conclusion and Recommendations** ............................................... 34

**Notes** ........................................................................................ 35
Executive Summary

America’s infrastructure is in rough shape. Many of our roads, bridges and transit systems are aging and in need of repair.

Yet, year after year, state and local governments propose billions of dollars’ worth of new and expanded highways that often do little to reduce congestion or address real transportation challenges, while diverting scarce funding from infrastructure repairs and 21st century transportation priorities.

Nine proposed highway expansion projects across the country – slated to cost $30 billion – exemplify the need for a fresh approach to transportation planning and spending. As America considers how to meet its infrastructure needs in a fiscally responsible way, the nation cannot afford expensive “boondoggle” projects that don’t meet our most important transportation needs.

Highway expansion costs transportation agencies billions of dollars, driving them further into debt, while failing to address our long-term transportation challenges.

- Highway expansion absorbs money that can be used for more pressing needs.
  - In 2012 (the last year for which data is available), federal, state and local governments spent $27.2 billion on expanding the highway system – consuming more than one out of every four capital dollars spent on the nation’s road network.1

- Continued spending on highway expansion diverts funds that could be used to address the nation’s roughly half trillion-dollar backlog of road and bridge repair needs and its $90 billion backlog of transit repair needs, as well as to expand transportation choices for Americans through investments in public transportation.2

- Highway expansion saddles states with debt.
  - Amid stagnating gas tax revenue, states have increasingly paid for highway expansions with borrowed money.
  - From 2008 to 2015, the highway debt held by state transportation agencies more than doubled, from $111 billion to $217 billion, while state fuel tax revenue increased by only 20 percent.3 As a result, retiring and making payments on old debt – debt service – has become increasingly expensive. In 2014, states spent $28 billion on debt service, representing 29 percent of all state highway spending.4

- Highway expansion doesn’t solve congestion.
  - Expanding highways draws new drivers to the roads, often resulting in a rapid return to the congested conditions the expansion project was originally supposed to solve. The return
to congestion after a road expansion is so predictable it has been called the “Fundamental Law of Road Congestion.”

For example, recent billion-dollar expansions of I-35W in Fort Worth, the Katy Freeway in Texas and Interstate 405 in California failed to significantly improve congestion, with commute times on the Katy Freeway actually increasing following expansion.6

States continue to spend billions of dollars on new or expanded highways that fail to address real problems with our transportation system, while adding new long-term fiscal and maintenance obligations. In some cases, officials are proposing to tack expensive highway expansions onto necessary repair and reconstruction projects, while other projects represent entirely new construction. Many of these projects began or were first proposed years or decades ago, or are based on highly questionable assumptions about economic impacts.

Questionable projects poised to absorb billions of scarce transportation dollars include:

- **“Traffic Relief Plan;” Maryland; $9 billion** – A plan to spend $9 billion on new highways comes as Maryland struggles to fix the Baltimore Metro, which was forced to close for urgent repairs in February 2018.

- **I-49 Inner City Connection; Shreveport, Louisiana; $547 million to $640 million** – A proposed new highway would slice through the heart of a neighborhood.

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**Figures ES-1. The Highway Debt of State Transportation Agencies Has More Than Doubled Since 2008**

![Graph showing the increase in highway debt from 2000 to 2015.](image-url)
• **U.S. Highway 101 Expansion; San Mateo, California; $534 million** – Widening U.S. Highway 101 in the San Mateo area will bring more cars into an already congested area, while directly conflicting with California’s global warming goals.

• **Interstate 35 Expansion; Austin, Texas; $8.1 billion** – Despite enormous state highway debt, and the growing need for transit and complete streets to create more compact and connected neighborhoods, policymakers have proposed spending $8 billion to expand I-35 through the middle of Austin.

• **LBJ East Expansion; Dallas, Texas; $1.6 billion** – The costly expansion of an already enormous highway will create 14 lanes (plus two frontage roads) of roadway.

• **Pennsylvania Turnpike Expansion; $6.9 billion** – Despite a precarious financial situation that threatens transit systems across the state, the Pennsylvania Turnpike Commission is undertaking an expensive highway widening project on 470 miles of highway.

• **I-94 North South Expansion; Wisconsin; $1.7 billion to $1.9 billion** – A highway expansion that would drain resources from other state projects is moving forward as part of an economic incentive package for electronics manufacturing company Foxconn.

• **I-285 & SR 400 Interchange Rebuilding; Atlanta, Georgia; $596 million** – An expensive interchange project is moving forward even as Atlanta residents clamor for more and better transit.

• **North Spokane Corridor; Spokane, Washington; $1.5 billion** – A proposed highway will slice through a historic Spokane neighborhood and take money from other transportation priorities, in order to take just minutes off the drive to low-density suburbs north of the city.

Previous *Highway Boondoggles* reports identified 32 dubious highway expansion projects costing an estimated $47 billion that merited additional scrutiny. Of those projects, nine have been canceled, are on hold, or are under significant revision. Those projects include the following:

• The Florida Department of Transportation cancelled plans to build new lanes along I-275 in Tampa between I-4 and Bearss Avenue, citing community opposition to the plan. Other elements of the Tampa Bay Next project are still moving forward.

• The **Dallas Trinity Parkway** was canceled after community-led opposition to the proposed toll road led to new questions over the project’s funding and its impact on the community.

• The **Illiana Expressway tollway in Indiana and Illinois** was suspended amid budget concerns and has been the subject of court challenges that leave its future in severe doubt.

• Wisconsin abandoned a proposal to **widen I-94 East West in Milwaukee** after the project was denied funding due to the state budget crunch and strong opposition from community groups.

• After receiving feedback that the plan to **widen I-94 through Detroit** would harm the city, transportation officials are considering modifications to the plan that would keep the highway’s existing footprint, create “complete streets” overpasses with improved pedestrian and bicycle infrastructure, and make better use of existing city streets for neighborhood connections.

• An extension to the Tesoro toll road in southern California was put on hold on the grounds that it, and a future additional extension, would threaten local water resources.

Federal, state and local governments should stop or downsize unnecessary or low-priority highway projects to free up resources for pressing transportation priorities.
Specifically, policy-makers should:

- **Invest in transportation solutions that reduce the need for costly and disruptive highway expansion projects.** Investments in public transportation, changes in land-use policy, road pricing measures, and technological measures that help drivers avoid peak-time traffic, for example, can often address congestion more cheaply and effectively than highway expansion.

- **Adopt fix-it-first policies** that reorient transportation funding away from newer and wider highways and toward repair of existing roads, bridges and transit systems.

- **Use the latest transportation data and require full cost-benefit comparisons, including future maintenance needs,** to evaluate all proposed new and expanded highways. This includes projects proposed as public-private partnerships.

- **Give priority funding to transportation projects that reduce growth in vehicle-miles traveled,** to account for the public health, environmental and climate benefits resulting from reduced driving.

- **Invest in research and data collection** to better track and react to ongoing shifts in how people travel.

Expanding highways does little to reduce congestion or address real transportation challenges, and diverts scarce funding from infrastructure repairs and 21st century transportation priorities.
Introduction

Since work began on the Interstate Highway System in 1956, American transportation planners have made a simple promise: New and bigger highways will end congestion and bring relief to frustrated commuters.

You can find such a promise in Road to Prosperity, a 14-minute promotional film released in 1961 that proclaimed:

Soon, traffic will flow smoothly in, around, and between every major city and town in America. There will be no traffic tie-ups where the interstate goes.8

Yet as thousands of miles of new highway stretched across the country in the following years – including all 41,000 miles of the originally conceived Interstate Highway System – the promised improvements in congestion seemed to disappear quickly. No matter how many lanes of highway were built, new cars always seemed ready to fill the new empty space. Once the new freeways filled up, they were expanded even further – and yet more cars materialized to fill the empty lanes.

Expanding highways to relieve congestion has not worked. Decades of study from around the world suggests that it cannot work.9 And the pursuit of smoother travel through ever-wider highways has come with terrible costs – the loss of forests and wetlands, the destruction of urban neighborhoods, vast and rising emissions of pollutants that harm our health and contribute to global warming. And, last but not least, the expenditure of trillions of dollars of public resources that could have been spent elsewhere.

Billions of dollars of spending on new highways – often done without corresponding increases in revenue – has had consequences for state finances and for the rest of our transportation system. State transportation agencies around the country have been plunged into debt, forcing increasingly expensive payments on old debt. And states have put off necessary repairs for existing road and bridge infrastructure, creating safety hazards for users and likely leading to vastly higher costs in the future.10

Despite decades of evidence that the broken policy of highway expansion is ineffective and even harmful, a look at transportation plans across the country reveals that today, officials are planning more of the same. Sixty years ago, transportation planners may not have been able to foresee the failure of highway construction to alleviate congestion or envision the tremendous fiscal burden that highway maintenance would impose on governments. Today, they have no excuse.

The projects highlighted here, as well as more than two dozen projects included in previous Highway Boondoggles reports, are examples of transportation officials’ refusal to move away from the failed approaches of the past. The costs of continuing that failed approach are borne by all of us.
The Problem with Highway Boondoggles

The United States continues to spend tens of billions of dollars each year to expand our highway network, even as existing roads and bridges crumble and other pressing transportation needs go unmet.

Highway Expansion Takes Money from Other Transportation Priorities

Highway expansion costs the United States tens of billions of dollars each year. In 2012, federal, state and local governments spent $27.2 billion expanding the highway system – including new roads, new bridges and widenings of existing highways. Those expansion projects absorbed more than one out of every four capital dollars spent on highways in 2012, a lower share than previous years, but still a massive investment.

At the same time, the traditional sources of funding for highway programs – gas taxes and other so-called “user fees” – are increasingly failing to keep up. The real value of fuel and vehicle tax revenue actually declined between 2000 and 2015, the result of slower growth in driving, more fuel-efficient cars, inflation, and the unwillingness of the federal government and many states to increase gasoline taxes. The result has been increased borrowing for highway expenses and a growing dependence on revenue from general funds supplied by taxpayers, regardless of how much or how little they drive.

Continued highway expansion amid stagnating gas tax revenues mean that limited funding is available for other transportation needs – including needs that are increasingly urgent in the 21st century.

- **Road repairs** – As many of the roads and bridges the nation built in the mid-20th century near the end of their useful lives, local governments are struggling to meet day-to-day infrastructure maintenance needs and often defer action to a later date. This has caused a roughly half trillion-dollar backlog of highway and bridge repair and rehabilitation. As streets, roads and bridges continue to age, the cost and urgency of maintenance and repairs can only be expected to grow.

- **Transit repair and expansion** – Similarly, the nation faces a nearly $90 billion repair and rehabilitation backlog for its public transportation systems. Americans also are increasingly demanding expanded access to public transportation. According to a 2014 ABC News poll, Americans favor transit improvements over road expansion as a solution to congestion by a margin of 54 to 41 percent. In November 2016, voters across the country approved $170 billion in new investment in transit on local ballots.
- **Local needs** – Local governments also clamor for funding to expand bike lanes, improve conditions for pedestrians, fix potholes, and engage in “complete streets” transformations and other improvements to local streetscapes. Often, these improvements cost just a tiny fraction of the cost of a major highway project, but deliver significant improvements in quality of life and expand the mobility options available to local residents.

**Highway Expansion Saddles States with Costly Debt**

High spending for road expansions and other projects combined with stagnant revenue from gas taxes and other sources has led to ballooning state highway debt. From 2008 to 2015, the highway debt of state transportation agencies more than doubled, from $111 billion to $217 billion.17 As a result, the cost to retire and make payments on old debt (debt service) has become increasingly steep. In 2014, states spent $28 billion on debt service, or 29 percent of all state highway spending, compared to just 11 percent in 2000.18

Some states have borrowed for highways more aggressively than others. In Texas, three constitutional amendments allowed the Texas Department of Transportation to borrow approximately $18 billion over the course of a decade for highway building, while also diverting additional state money to transportation.19 By the end of 2015 Texas had $29 billion in total highway debt, 30 times more than at the end of 2000 – and is now paying nearly $5 billion each year to service that debt, 90 times more than in 2000.20 In 2014, Texas voters approved Proposition 1, which diverts more than $1 billion per year from elsewhere in the state budget to spending on roads.21

Highways built using public-private partnerships (PPPs), in which private companies build roads in ex-
change for the right to raise and collect toll revenue, are sometimes presented to the public as a way to build new highways without public costs. Yet while some privatized toll roads do cover their own costs, in some cases toll revenue fails to cover the cost of toll roads and result in more public spending and public debt. For example, in Maryland – which is currently considering major new PPP roads (see page 14) – the Intercounty Connector toll road was subsidized with $445 million in funds from the state Transportation Trust Fund and state general funds. PPP projects can require new spending when they must be propped up or rescued in cases where tolls do not generate enough revenue to pay off investors or cover costs, as has been the case with State Highway 130 and the Camino Colombia toll road in Texas. In deals where the public does not receive fair value for future toll revenues, PPP highways can also result in decreased long-term revenue for the state – resulting in either increased debt, or the need to raise new revenue.

Highway Expansion Doesn’t Solve Congestion

Building a new highway or widening an existing one is often billed as a way to reduce traffic congestion. Nearly a century of highway construction in the United States, however, suggests that it does not work. Since 1980, the nation has added more than 800,000 lane-miles of highway – paving more than 1,500 square miles, an area larger than the state of Rhode Island – and yet congestion today is worse than it was in the early 1980s.

For decades, transportation researchers have understood why building and widening highways does not eliminate congestion. Expanding a highway sets off a chain reaction of societal decisions that ultimately lead the highway to become congested again – often in only a short time. Businesses may choose to move or establish new locations on the outskirts of the city in order to take advantage of the new highway. People may choose to move farther away in pursuit of cheaper housing. Commuters who had left early for work in order to avoid traffic might travel at rush hour once again. People who had taken transit might get back into their cars.

The ability of these changes – collectively termed “induced demand” – to take up additional space on highways, ultimately resulting in the return of congestion, is so predictable that it has been called the “Fundamental Law of Road Congestion.” Examples of recent highway expansion projects that failed to relieve congestion include the following:

I-35W in Fort Worth

Fort Worth commuters are still sitting in heavy traffic, even after a $1.6 billion project to add express lanes and make other road improvements. A Fort Worth Star-Telegram report following the opening of new lanes in April 2018 described lines of traffic up to four miles long, with heavy congestion even at non-peak hours.

Katy Freeway

In Texas, the Katy Freeway was known as far back as 2002 to be a very congested highway. A $2.8 billion highway widening project was promoted as a fix for the congestion. The highway became one of the world’s widest – with 26 lanes in parts. And yet, travel times worsened considerably. By 2014, 85 percent of commutes along that highway took longer than they had in 2011. Morning commutes took more than 30 percent longer, and afternoon commutes took more than 50 percent longer.

I-405 in Los Angeles

The $1.6 billion widening of I-405 that disrupted commutes for five years – including two complete shutdowns of a 10-mile stretch of one of the nation’s busiest highways – had no success in reducing rush hour congestion (though it did shorten the duration of rush hour somewhat).
Just five months after the widened road reopened, the rush-hour trip took longer than it had while construction was still ongoing.\textsuperscript{36}

**Highway Expansion Damages the Environment and Our Communities**

Highway expansion fuels additional driving that contributes to climate change. Americans drive more per-capita – and produce more carbon pollution from transportation per-capita – than residents of any other nation in the world.\textsuperscript{37} In 2016, transportation was the nation’s number one source of global warming pollution.\textsuperscript{38}

By nudging more people to take to the roads, highway expansion makes it more difficult for the nation to meet its national clean air goals and greenhouse gas emission reduction goals. In order to achieve the dramatic reductions in carbon pollution needed to prevent the worst impacts of global warming, the United States and the world must promote low-carbon forms of transportation wherever possible. Highway expansion does just the opposite.

Highway expansion can also cause irreparable harm to communities – forcing the relocation of homes and businesses, widening “dead zones” alongside highways, severing street connections for pedestrians and cars, reducing the city’s base of taxable property, and creating noise, pollution and disruption that degrade quality of life.

According to former U.S. Transportation Secretary Anthony Foxx, roughly 1 million Americans were displaced by highway construction during the first 20 years of the Interstate Highway System.\textsuperscript{39} Many of those who were not displaced found their community life disrupted. A 2006 study found that U.S. cities would have added 8 percent to their population between 1950 and 1990 if urban freeways had not been built, compared to the 17 percent decline that occurred amidst the urban highway boom.\textsuperscript{40}

Such displacement and disruption continues. In Shreveport, the I-49 Connector project threatens to displace churches and dozens of homes.\textsuperscript{41} (See page 16.) In Spokane, a project to build a highway through the east side of the city would cut through the heart of the historic community of Hillyard.\textsuperscript{42} (See page 24.)
America’s continued construction of ever-wider highways costs tens of billions of dollars each year – money that is diverted from more pressing needs such as highway repair, transit repair and expansion, and local street improvements. Those highway expansion projects often fail to do the job they are intended to perform: reducing congestion. And they are often funded with reckless borrowing that creates a debt burden for future generations.

In this report, we identify nine highway “boondoggles” slated to cost $30 billion – projects with large price tags that are unnecessary and/or threaten to damage the communities surrounding them.

Some of these projects were originally proposed decades ago, at a time when concepts such as induced demand and the impact of driving on the global climate were unknown. Others represent more recent trends, such as the use of tolled “express lanes” to expand highway capacity in areas where widening would otherwise be politically or financially impossible.

In this report, we address three types of projects:

- New highways or relocations of existing highways.
- Projects that add new lanes to existing roads.
- Highway expansions that are unnecessarily tacked onto needed highway reconstruction and repair projects. Many highways are currently reaching the end of their useful lives and require major reconstruction. In many cases, however, highway agencies have added expansion onto these reconstruction projects, making them more expensive and disruptive than they should be.

While not every state or region is included in the list of misguided highway projects below, nearly every state has one or more highway expansion projects whose wisdom is questionable. The projects highlighted in this report are not necessarily the worst highway boondoggles in the nation, but they are representative of the costs of proceeding with disruptive projects that do not have a compelling transportation rationale.
“Traffic Relief Plan,” Maryland
Estimated Cost: $9 Billion

A plan to spend $9 billion on new highways comes as Maryland struggles to fix the Baltimore Metro, which was forced to close for urgent repairs in February 2018.

In February 2018, Maryland had a transit emergency. That month, Baltimore’s entire Metro SubwayLink system was shut down for a month after inspections revealed that the subway was becoming dangerous and needed emergency repairs. The closure immediately threw into disarray the commutes of 34,000 daily riders and shined a light on years of neglect of the system. Meanwhile, in the Washington, D.C., area, much of which is in Maryland, the Metrorail system has seen reliability suffer and experienced several high-profile safety incidents following years of deferred maintenance.

Maryland recently agreed to cover its share of a $500 million annual funding plan for Metro with Virginia and the District of Columbia, a first step in restoring the system to health. But the investment in Metro pales in comparison to a massive highway expansion project that would likely put more Marylanders on the road.

The proposed projects would be some of the biggest and most expensive highway expansion projects in the country. In total, the proposed “Traffic Relief Plan” would cost $9 billion: $7.6 billion to add four new lanes to I-495 and I-270, and $1.4 billion to add four lanes to MD-295, the Baltimore-Washington Parkway.

The three highways planned for expansion all cover important transportation routes in the Baltimore-D.C. area: I-495 encircles Washington, D.C., I-270 connects D.C. with Frederick, a major suburb northwest of the city, and MD-295 connects D.C. with Baltimore. Each route suffers from hours of congestion each weekday and is a source of pain for area commuters.

However, expanding Maryland’s already substantial highway capacity would likely bring minimal relief for those commuters. I-270 and I-495 are already eight lanes across, with miles of additional auxiliary lanes; for much of its route, MD-295 runs parallel to Interstate 95, which is also eight lanes across. As described above (“Highway Expansion Doesn’t Solve Congestion,” page 11), highway expansions rarely reduce congestion because they result in more overall driving. Meanwhile, the plan would have large costs for the state of Maryland – for neighborhoods along the route, for Maryland taxpayers, and for Maryland’s transportation future.

Maryland’s “Traffic Relief Plan” would entail adding new lanes along more than 100 miles of highway.
I-270, MD-95, and I-495 (shown above) travel through dense residential and commercial areas, and their widening will likely require relocating homes and businesses.

hoods. The Traffic Relief Plan Request for Information notes that along I-495, “[r]esidential and commercial development is located close to the right-of-way line,” and indicates that the project will require right-of-way property acquisitions.47 One response from an infrastructure investment company notes that “[m]ost of the corridor is built along dense residential, commercial and office areas.”48 I-270 and MD-295 also travel through stretches of dense development in the areas closest to Frederick, Baltimore, and Washington, D.C. Widening MD-295, which is a historic parkway currently maintained by the National Park Service, would also likely require diminishing that road’s scenic value.

The project also would cost Marylanders money – for new tolls, but also likely from state funds. The plan envisions that I-495 and I-270 would be built through a public-private partnership (PPP), under which a private company or companies would build the highways and then collect tolls for access to new express lanes, in a contract lasting a to-be-determined number of years.49 The MD-295 lane additions would be toll roads built by the Maryland Transportation Authority (MDTA).50

Governor Larry Hogan has promoted the potential PPPs as a good deal for taxpayers, saying “[i]t won’t cost us tax dollars.”51 Yet this is misleading. The state’s own documents confirm that federal funds and loans will be sought for the project.52 And similar projects around the country have sometimes not been able to raise enough toll revenue to cover their costs. For example, tolls have not come close to covering the construction costs of additional lanes built for I-95 north of Baltimore.53

One response to the project’s Request for Information notes that “toll revenues may not be sufficient to cover the entire costs of the Project,” and suggests that “MDOT might consider a ‘hybrid’ toll
revenue and availability payment approach, or may choose to supplement toll revenue by contributing some amount of public subsidy as milestone or completion payments during/at the end of construction."54 (For more on how PPP projects can affect state finances, see page 11.)

Governor Hogan has also demonstrated his willingness to reduce tolls, regardless of the cost to the state, as when he reduced tolls at roads and bridges across Maryland in 2016.55 Future politicians may do the same, and the result may be the need for state payments to support the new highways.

Any new debt created by the project would add to Maryland’s already quickly-growing highway debt. At the end of 2015, Maryland owed $5.2 billion in state highway bonds, 5 times more than it did at the end of 2000, not adjusted for inflation. And in 2014, the state spent $492 million servicing highway debt, three times as much as it did in 2000.

New costs to Marylanders for building highways will make it more difficult to pay for other pressing transportation needs, including:

• Fixing and improving the Baltimore Metro.

• Funding the MARC commuter rail, which has had to rely on stopgap funding measures to remain in service.56

• Building more and better urban transit. This includes the proposed Red Line light rail extension, which would have connected Baltimore neighborhoods, improving transportation options in the city while helping Maryland residents live in the city and avoiding sprawl. In 2015, Governor Hogan cancelled the extension.57

• Repairing roads and bridges. More than half of Maryland roads are in poor or mediocre condition, and 27 percent of bridges are structurally deficient or functionally obsolete.58

I-49 Inner City Connection, Shreveport, Louisiana

Estimated Cost: $547 million to $640 million59

A proposed new highway would slice through the heart of a neighborhood.

Louisiana officials are making plans to build an expensive highway that will harm a community, reminiscent of highway projects that devasted urban areas in the middle of the 20th century. The plan is to spend $547 million to $640 million building a new 3.5-mile cut-through section of Interstate 49 that will divide the northern section of Shreveport. A loop interstate already exists around Shreveport and is the “no build option”.

The new section of highway would cut through the middle of the neighborhood of Allendale.61 All of the cut-through routes proposed so far would require demolishing at least one church and at least 50 homes.62 Unsurprisingly, many residents have expressed outrage over the plan, for which state officials were drafting an environmental impact statement as of November 2017.63

The proposed highway could have costs beyond the damage to a community. Research has shown that road-centric development tends to be less valuable from a tax-base standpoint than the older, denser development that gets replaced.64 And a number of studies have found that building highways does not generate new economic growth – it merely redistributes economic activity from city centers to new-build suburbs or from one town to another.65 In fact, some studies on sprawl have found evidence of enormous harm to the economy – a 2015 study by the Victoria Transport Policy Institute estimated that urban sprawl costs the U.S. economy $1 trillion each year as a result of costs including greater spending on infrastructure, public service delivery, and transportation.66
Residents of Allendale have proposed an alternative project: Upgrading Route 71, which is already used by drivers to connect to I-49, into a multiuse “business boulevard.” According to the community group #AllendaleStrong, such a project would cost just a fraction of the cost of the I-49 cut-through, while strengthening existing communities and bolstering local businesses.

Meanwhile, funding is needed for other important transportation projects in both Shreveport and around the state, including:

- Repairing aging roads and bridges. More than 60 percent of Louisiana roads are in poor or mediocre condition. And Louisiana ranks second in the country in structurally deficient bridges, based on square footage of bridge deck.

- Creating a smarter transportation network. In 2016, Shreveport applied for grant funding from the U.S. Department of Transportation’s Smart City Challenge. Among the improvements envisioned for the city are new electric vehicle charging stations, a new “electric taxi circulator station” that would be a hub for electric, shared transportation, and new systems to make the bus system more efficient and more responsive to riders’ needs.

Not only would the I-49 project likely fail to achieve its economic promises, it would also add to Louisiana’s already-growing highway debt. As of the end of 2015, Louisiana had $3.4 billion in highway debt, nearly 11 times more than at the end of 2000, not adjusted for inflation. And in 2014, Louisiana spent $310 million on highway debt service, six times more than in 2000. Further debt could complicate Louisiana’s already-difficult budget situation, as the state is facing the prospect of credit rating downgrades in the face of a nearly $1 billion budget shortfall in the 2019 fiscal year.

**U.S. Highway 101 Expansion, San Mateo, California**

Estimated Cost: $534 million

Widening U.S. Highway 101 in the San Mateo area will bring more cars into an already congested area, while conflicting with California’s global warming goals.

Highway 101 in the San Mateo area has suffered from congestion for decades and has undergone many projects to add road capacity – including seven projects to add auxiliary lanes since 1997. Yet today, congestion is as bad as ever, often slowing to a crawl at rush hour.

Years of widening projects with little impact signal that a new approach is necessary. Once again, however, the California Department of Transportation...
(Caltrans) is planning to address congestion with a highway expansion. The plan is to add an express lane – in which single- and double-occupancy vehicles pay a demand-based toll – on both sides of the existing highway. In total, the project would add more than 22 miles of new lanes, at a total cost of $534 million.75

The project is at direct odds with California’s goal to reduce global warming pollution 80 percent below 1990 levels by 2050.76 Achieving that goal will almost certainly require dramatic reductions in transportation emissions, which account for 39 percent of state global warming emissions, far more than any other sector of the economy.77

Demand pricing can be an effective way to reduce congestion and pollution – yet because the Highway 101 project also increases total vehicle capacity, it will also result in more driving and more emissions. According to Caltrans’ estimates, the expanded highway will see 70 million additional vehicle miles traveled and an additional 40,000 metric tons of global warming emissions per year compared to the “no build” scenario.78

Meanwhile, funding is needed for projects that could actually help California achieve its climate goals by giving commuters options beyond driving. Such projects include much-needed transit improvements in San Mateo county, including an increase in SamTrans bus service, and upgrades to CalTrain’s facilities.79 Such projects would also align with the priorities of local residents: San Mateo residents who responded to a recent survey indicated that they would prefer congestion solutions that take cars off the road, rather than add road capacity.80
The project will also take money away from road and bridge repairs. Nearly 70 percent of California roads are in poor or mediocre condition, seventh-worst in the country. And nearly 30 percent of bridges are structurally deficient or functionally obsolete.

California has many options for building a more sustainable transportation system. But building new lanes on Highway 101 will only further entrench driving as the region’s dominant mode of transportation, bringing more driving and more cars – and likely more proposals for new lanes in the years to come.

**Interstate 35 Expansion, Austin, Texas**

*Estimated cost: $8.1 billion*

Despite enormous state highway debt, and the growing need for transit and complete streets to create more compact and connected neighborhoods, policymakers have proposed spending $8 billion to expand I-35 through the middle of Austin.

Interstate 35 on its route through the heart of Austin is notoriously congested, and its traffic is a constant topic of complaints and news coverage. Commuters are desperate for a fix. But a proposal to add miles of new lanes will likely only exacerbate the problems that led to congestion in the first place.

The proposal being put forth by Texas officials would add four new lanes (two in each direction) along approximately 33 miles of I-35 traveling north-south through Austin. The project is the largest piece of a massive $8.1 billion collection of projects up and down I-35 in the Austin area.

Just as road expansions elsewhere in Texas have failed at reducing congestion – like Houston’s Katy Freeway expansion – any congestion benefits from widening I-35 will likely be short-lived. Austin’s suburbs of Georgetown, north of the city, and San Marcos, south of it, both saw population grow by more than 35 percent from 2010 to 2016. If those cities continue to see population growth as in recent years – which seems likely if encouraged by a wider highway connecting them to Austin – I-35 will quickly fill up with cars once again.

An I-35 expansion would also drain money from other pressing transportation needs. In 2012 Austin adopted a city vision for limiting sprawl, expanding transportation choices, and creating more compact, connected communities. Achieving that vision will require a variety of projects. These include building better bike and pedestrian infrastructure downtown, like the improvements proposed for the Guadalupe Street Corridor that would cost $33.7 million. Various proposals have called for creating new light rail routes through the heart of Austin, at a cost of $400 million to $1.4 billion.

Texas’ enormous appetite for new roads – including the addition of 12,000 new lane-miles from 2000 to 2016 – have already drained money from the budget and forced the state to make difficult financial decisions. Texas has shifted billions of dollars to pay for roads and road debt from elsewhere in its budget, as the result of both Proposition 1 in 2014 and Proposition 7 in 2015. As of 2015, Texas owed $29.1 billion in highway debt, second-most in the country, and 30 times more than it owed in 2000. In 2014, Texas paid $4.8 billion just to service its debt, 90 times more than in 2000.

As of February 2018, the I-35 highway plan is on hold, because the Texas Transportation Commission decided not to support any roads with tolled elements. However, local officials are still pushing to move the project forward.
LBJ East Expansion, Dallas, Texas

Estimated Cost: $1.6 billion

The costly expansion of an already enormous highway will create 14 lanes (plus two frontage roads) of roadway.

Texas officials have proposed a $1.6 billion road expansion of the LBJ East, a highway that partially circles northeast Dallas about 10 miles from the city center. The project would add two lanes to the 10-lane highway, as well as two lanes of frontage road on either side of much of the highway, creating 16 lanes of roadway in total.

The new lanes will result in more driving and more pollution. According to one project document, building the lanes will result in more emissions of toxic air pollutants like benzene, formaldehyde, and diesel particulate matter compared to the “no build” scenario.

Meanwhile, Texas and the Dallas area have other urgent transportation needs, including the improvement of local rail and transit service. Because of limited funds, Dallas Area Rapid Transit, or DART, is being forced to decide between a number of transit improvements, including new rail lines and improved bus service. DART is also looking into building a subway, for which cost estimates range from $950 million to $1.3 billion.

Building the LBJ East expansion would also add to Texas’ already massive debt, described above (see page 19). As of February 2018, the project is in limbo following the Texas Transportation Commission’s decision to not include toll roads in the state’s plans, following extensive political backlash to the proliferation of toll roads in the state. However, officials are still working to move the project forward.
Pennsylvania Turnpike Expansion

Estimated Cost: $6.9 billion

For decades now, the Turnpike has been undergoing a “Total Reconstruction” project with the aim of replacing 470 miles of road – both the 360-mile east-west route across the state, and the Turnpike’s 110-mile northeast extension. The turnpike is America’s oldest superhighway, it requires frequent maintenance, and it has an outdated design. However, the Turnpike reconstruction project is not merely updating road design. Rather, most of the project also entails widening the highway – one new lane in each direction, along with a lane-width shoulder.

Adding new lanes adds cost to the project. Widening the roadway means more asphalt, more right-of-way access, and new infrastructure. For example, overpasses generally need to be replaced to fit over the new highway. One two-mile section of road in
western Pennsylvania requires four new overpasses, including two rail bridges.\footnote{22}

The spending decisions made by the PTC have serious ramifications for Pennsylvanians. In particular, the PTC’s increasing debt threatens a number of transit services in Pennsylvania. After years of struggling to fund transit systems, lawmakers passed Act 44 in 2007, later updated with Act 89 in 2013, which require the PTC to provide $450 million in annual funding for the Pennsylvania Department of Transportation to spend on public transit.\footnote{107}

In the face of increasing debt, some Pennsylvania officials have called to end Act 89 transit payments. Ending those payments, which account for about 12 percent of PennDOT’s financing, could be devastating for transit.\footnote{108} For example, the Port Authority of Allegheny County relies on Act 89 money for half of its annual revenue, and has used the money to expand the number of buses and bus routes that it operates.\footnote{109} Act 89 funds have also been important to help the Southeastern Pennsylvania Transportation Authority (SEPTA) keep its trains in service in the Philadelphia area.\footnote{110}

\section*{I-94 North South Expansion, Wisconsin}

\textbf{Estimated Cost:} $1.7 billion to $1.9 billion

A highway expansion that would drain resources from other state projects is moving forward as part of a costly incentive package for an electronics manufacturer.

In Wisconsin, which is groaning under the weight of billions of dollars of highway debt, a major highway construction project is moving forward largely to serve a single business.

Wisconsin is spending $1.7 billion to $1.9 billion (in 2009 dollars) to widen the I-94 freeway from Milwaukee to near the Illinois state line from six to eight lanes.\footnote{111} The project will involve the replacement of seven interchanges along the route, along with the total rebuilding of many stretches of highway.\footnote{112}

Small amounts of construction have already taken place.\footnote{113} Yet plans to undertake the largest pieces of construction are only moving forward thanks to a $4 billion incentive package to lure Foxconn, a tech manufacturer, to Wisconsin.\footnote{114} Alongside tax breaks and other various incentives, the package includes up to $252 million to help complete the widening project.\footnote{115} Most of the rest of the money will also come from state sources, although Wisconsin is applying for federal grant money.\footnote{116} Wisconsin is also planning to spend another $134 million on other road projects in the area around the new factory site, money that is being drawn from other transportation projects in the state.\footnote{117}

The I-94 expansion will use up already-scarce transportation dollars. After years of borrowing to build expensive highways, as of 2015 Wisconsin had $3.8 billion in highway debt, five times more than in 2000. And in 2014, Wisconsin spent $670 million on debt servicing, eight times more than 2000. With transportation funds depleted, lawmakers have had to turn to general taxpayer funds to cover transportation costs.\footnote{118} And Wisconsin has already abandoned other highway expansion projects, including a separate section of I-94, after failing to come up with funding.\footnote{119}

With so much existing debt, the I-94 expansion will leave little money left for transit needs. One critical need is for the creation of transit service between the new plant site and Milwaukee. Local officials have proposed new bus routes and a new commuter rail route – but they lack the funding support that the I-94 expansion has received.\footnote{120} Officials are also working to improve train service between Milwaukee and Chicago, which is currently served by an Amtrak line that makes only seven trips per day.\footnote{121} Although plans for a $200 million service expansion are developing, the \textit{Milwaukee Journal-Sentinel} reports that the project is moving far more slowly than the I-94 expansion, with no set completion date.\footnote{122}
Wisconsin also needs funding for road repairs. More than 70 percent of Wisconsin’s roads are in poor or mediocre condition, tied for second worst in the country.\textsuperscript{123}

**I-285 & SR 400 Interchange Rebuilding, Atlanta, Georgia**

**Estimated Cost: $596 million\textsuperscript{124}**

An expensive interchange project is moving forward even as Atlanta residents clamor for more and better transit.

Aging interchanges can be dangerous and updating their design can be necessary to keep drivers safe. Yet in Georgia, the need for an interchange design update has led to something far larger.

Georgia has begun preparing for construction on a $596 million project to rebuild and expand the interchange of Interstate 285 and State Route 400, and has begun construction on related projects along stretches of road near the interchange.\textsuperscript{125} According to a report by the *Atlanta Journal-Constitution*, after the project’s conception it “morphed far beyond its original scope” after state leaders “latched on to a truly mammoth version of the concept, one that would add miles of lanes adjacent to both major highways and consume an amount almost equal to the state’s entire annual road construction budget.”\textsuperscript{126} The project is similar in scope to Georgia’s famous “Spaghetti Junction,” the I-85/I-285 interchange that consists of miles of twisting and turning roads and ramps, and multiple levels of flyovers. As the *Journal-Constitution* notes, that project provides a preview of what motorists can expect: temporary relief from traffic jams, followed by a return to “gridlock purgatory.”

Meanwhile, the Atlanta region is working to make urgent transportation improvements to support the city’s revitalization and growth. Nearly twice as many Atlanta residents say they would prefer transit upgrades to new roads.\textsuperscript{127} In 2016, Atlanta voters ap-
proved a half-cent sales tax to support $2.5 billion in transit improvements over the next 40 years. The money will be used to help expand Atlanta transit, which today is simply too scarce to fill the city’s needs. And in 2018, Governor Nathan Deal signed legislation that will unify Atlanta-area transit under a single service, put in place a funding framework for future improvements, and provide $100 million for future projects. But Atlanta has significant work ahead of it to create a system that serves its residents transit needs and will need substantial new funding to approach the level of per capita transit spending made by many other major cities.

North Spokane Corridor, Spokane, Washington

Estimated Cost: $1.5 billion

A proposed highway will slice through a historic Spokane neighborhood and take money from other transportation priorities in order to take just minutes off the drive to low-density suburbs north of the city.

The North Spokane Corridor (NSC) is a proposed highway that will connect Interstate 90, which runs East-West through the center of Spokane, to U.S. Route 395 north of the city. The cost of the project is $1.5 billion, the vast majority of which will come from state funding sources.

The NSC has been in the works for decades – and has been a source of controversy the entire time, because it will slice through neighborhoods, including the historic community of Hillyard, and result in more than 500 homes being displaced. Hillyard business owners worry that the new highway will damage the district that they have worked to improve in recent years.

The project could also bring unwelcome changes to areas outside of Spokane. The Spokesman-Review newspaper estimates that the project will result in "quiet, rural areas in northeastern Washington [becoming] more crowded." If that prediction plays out, and the new highway creates new demand for car travel north of Spokane, the highway would likely only provide a brief respite from congestion.

Even under current conditions, the congestion benefits of the highway are small. The top listed benefit on the project homepage is that it will shave around 10 minutes off the trip from I-90 to Wandermere, a suburban neighborhood in the northern section of Spokane. Critics of the project have suggested that the current amount of traffic could be carried by a much smaller boulevard, which unlike a highway could be walkable and bikeable.

Meanwhile, Washington and Spokane have other important transportation needs, including:

- Repairing roads and bridges. 67 percent of Washington roads are in poor or mediocre condition, eighth most in the country, and 26 percent of bridges are structurally deficient or functionally obsolete.

- Better transit in Spokane, which residents have supported at the ballot box. In November 2016 voters approved Proposition 1, “authorizing an increase in local sales and use tax of up to 0.2% to help maintain, improve and expand public transit in Spokane Transit’s service area.” Despite the new revenue, Spokane’s transit system will need to compete for future grants to complete planned projects.

The NSC also constitutes a major expense that will add to Washington’s already growing and costly debt. In 2015, Washington had $8.5 billion in highway debt, nine times more than in 2000. And in 2014, Washington spent $457 million on debt servicing in 2014, three times more than in 2000. This debt has created difficult questions for state officials. In February 2018, Washington’s treasurer warned lawmakers against putting a $1.3 billion revenue windfall toward a property tax cut, arguing it should instead be used to pay down state debt.
Previous Highway Boondoggles reports in 2014, 2016 and 2017 identified 32 dubious highway expansion projects costing an estimated $47 billion that merited additional scrutiny. Of those projects, as of February 2018, three had been canceled, three were on hold with significant potential for cancellation, three were under revision, 13 were in the midst of further study and review in advance of construction, and 10 were under construction. A review of those projects follows.

2017 Projects

**Interstate 405 Improvement, Orange County CA**

**Status: Under Construction**

The Interstate 405 Expansion is a $1.9 billion project that plans to add express toll lanes to 16 miles of “the 405,” one of the most congested highways in the United States. The project is based on estimates of dramatic traffic increases that are both unrealistic, and that far exceed real use trends. Expanding the highway, however, could very well bring many of those who currently avoid the 405 due to congestion back to the highway – generating new traffic that causes congestion to return.

Construction on the project began in spring 2018.

**Interstate 4 “Beyond the Ultimate,” Florida**

**Status: Study and Review**

The widening of I-4 in Orlando, known as the “I-4 Ultimate,” is a massive, six-year reconstruction and expansion project that will transform 21 miles of highway – adding two tolled “express lanes” in both directions and rebuilding bridges and interchanges along the highway’s length. Yet all the new traffic the “Ultimate” is expected to attract threatens to create new bottlenecks at either end of the project. That fear has lent momentum to the proposed “Beyond the Ultimate” project, which would widen a further 40 miles of highway north and south of the project, costing $2.2 billion.

As of March 2018, sections of the project were still undergoing various stages of planning and funding, but at least one section of the project is tentatively set to begin construction in late 2019.

**Interstate 75 North Truck Lanes, Georgia**

**Status: Study and Review**

The Georgia Department of Transportation (GDOT) is in the early stages of considering a $2 billion plan
to build the nation’s first long-haul, truck-only lanes along a nearly 40-mile stretch of I-75 from just north of Macon until just south of Atlanta. The project would represent a major giveaway to the trucking industry at the expense of Georgia taxpayers, while largely duplicating rail-based solutions for moving freight from the Port of Savannah that are already being implemented in the state.

In August 2017 the plan was incorporated into Governor Nathan Deal’s 10-year mobility plan as an amendment, approved by the Atlanta Regional Commission. This represents a small but meaningful step forward in the process of approving the project. As of February 2018, the project was still in planning stages.

**Interstate 84 Expansion, Connecticut**

**Status: Study and Review**

In December 2016, the state of Connecticut took the first steps toward widening I-84 in Danbury, hiring consultants to begin planning for a project that is estimated to cost more than $700 million, a cost that does not include the potentially substantial costs of acquiring additional right-of-way for the road. Although congestion on I-84 is a problem, Connecticut has more pressing transportation priorities. The State Transportation Fund has fallen to such low levels that local transit agencies have started to plan for painful service reductions. Connecticut also badly needs to invest in road repairs: 73 percent of its roads are in poor or mediocre condition, worst in the nation. Connecticut also has limited transportation resources, with lawmakers struggling to keep the state’s special transportation fund from falling into a deficit in the fiscal year starting July 2018.

This project is part of the Let’s Go CT program, which aims to revitalize Connecticut’s infrastructure. As of March 2018, the project was undergoing design, and the state had committed $640 million to the project. Construction is scheduled to begin in 2022.

**Illinois State Route 53/120**

**Status: Study and Review**

An extension of Route 53 in Lake County has been under consideration since 1993 and has recently been revived. The proposed 25-mile extension is estimated to cost between $2.3 billion and $2.6 billion, and officials have suggested paying for it with a suite of funding options, including tolling, congestion pricing, and a 4-cent county-wide gas tax. However, even with those funding options, a funding gap of $1.3 billion to $1.9 billion has been predicted. Meanwhile, local opponents of the project have argued that the road would accelerate suburban sprawl and result in more traffic on local roads.

Despite widespread opposition to the project, the Illinois State Toll Highway Authority has continued momentum toward building the project. In May 2017, the Illinois Toll Highway Authority Board approved $25 million for an environmental impact study (EIS), which will be completed in the next three to five years.

**Interstate 66 Expansion “Within the Beltway,” Virginia**

**Status: Study and Review**

Virginia officials are planning to widen Interstate 66, which travels from Washington, D.C., to Virginia suburbs. Originally, the road expansion was set to take place only after thorough research of other elements of the project, including addressing traffic through demand management, and providing resources to expand the range of transportation choices available to people along the corridor. Yet that plan was derailed in the state legislature, resulting in a new plan that would widen the road immediately. According to the project’s environmental assessment, the widening will lead to increased driving. Arlington County has also expressed concern about the potential for increased noise, the impact on local streets, and other issues.
As of February 2018, road crews had begun work surveying the construction area, and construction was set to begin within the year. Congestion pricing has already taken effect on I-66's existing lanes. Although high rush hour toll prices have generated controversy, early reports also indicate that the prices have reduced congestion.

**Interstate 30, Arkansas**

**Status: Study and Review**

The Arkansas Highway and Transportation Department has proposed widening Interstate 30 through Little Rock and North Little Rock from six to 10 lanes. By increasing traffic and encouraging auto-oriented development, the project threatens to conflict with the revitalization of downtown Little Rock that has taken place in recent years.

In November 2017, the Arkansas Department of Transportation settled on a 10-lane plan for the project. As of February 2018, transportation officials were in the process of drafting an environmental assessment and were planning to hold a public hearing on the plans in mid-2018.

**Madison Beltline, Wisconsin**

**Status: Study and Review**

State officials are currently investigating a possible $1 billion project to widen the Madison Beltline in Wisconsin. This project would entail both widening and rebuilding the road, and could last years. Meanwhile, the state of Wisconsin is in the midst of a funding crisis, with other major projects and renovations being delayed due to lack of funds. Wisconsin has also underfunded public transportation – an especially attractive alternative in the Madison area, where transit ridership increased by 24 percent between 2005 and 2015.

A study of possible long-term solutions to congestion and traffic issues on the Madison Beltline was commissioned in late 2011, and a Planning and Environmental Linkages study began in 2013 in order to evaluate the impact of the proposed expansion. When this study is completed, a National Environmental Policy Act study will begin, the final step before possible project approval and construction.

**Interstate 73, South Carolina**

**Status: Study and Review**

Interstate 73 is a planned highway originally authorized in 1991, intended to run from Charleston, South Carolina, to Detroit, Michigan. With the exception of 82 miles in North Carolina, grand plans for the highway have so far come to naught. Now, South Carolina is planning to spend more than $1 billion to construct another segment of the new interstate. It would replace a road without heavy traffic, and which has only seen small increases in congestion since 2009. The project would also negatively impact 325 acres of wetlands and divide existing ecosystems, and it represents the most extensive proposal to affect the state's wetlands in recent years.

In June 2017, the Army Corps of Engineers approved a permit for the project, allowing its construction to begin. However, as of February 2018 lawmakers are still seeking funding to begin construction.

**2016 Projects**

**710 Tunnel, California**

**Status: Cancelled**

In May 2017, the Metropolitan Transportation Authority unanimously withdrew its support and funding for the 710 Tunnel. The proposal to drill a highway tunnel to link I-210 and I-710 had been the most expensive, most polluting and least effective option to address the San Gabriel Valley’s transportation issues. Studies showed that the tunnel would add 40,000 cars and trucks to the area, leading South Pasadena to adopt a resolution opposing the tunnel and instead endorsing multi-modal alternatives such
as “Beyond the 710” and “Connecting Pasadena,” which would alleviate congestion without inducing more driving. The project was cancelled in the face of this and other opposition, including a five-city coalition of Glendale, Pasadena, Sierra Madre, South Pasadena and La Cañada Flintridge, which joined together with local organizations to oppose the tunnel.

Widening I-70 in Denver, Colorado

**Status: Study and Review**

In January 2017, the Federal Highway Administration gave its final approval to the Colorado Department of Transportation’s (CDOT) I-70 reconstruction and expansion project. The approval clears the way for CDOT to use federal funds to widen I-70 between Brighton Boulevard and Tower Road, a 12-mile stretch of road estimated to cost $1.2 billion, with one new, tolled express lane in each direction.

Construction of the project is expected to start in 2018 and will require the destruction of 56 homes and 17 businesses in the surrounding neighborhood. But the highway still faces considerable local opposition.

Residents claim the expanded highway will worsen air quality in an area already affected by poor health outcomes closely linked to air pollution from transportation. A recent study showed that the 80216 zip code, which is home to two neighborhoods around the I-70 project area, had elevated levels of pollution compared even to parts of Los Angeles. CDOT argued that moving part of the currently elevated portion of the roadway below street level with a park over it compensates for the negative impacts of the road. However, the park only covers a small portion of the expansion near Swansea Elementary School and concerns remain regarding highway pollution rising on either side of the park.

Widening I-95 Across the State, Connecticut

**Status: Under Revision**

The $11.2 plan to add an additional lane on both sides of I-95 along the length of the entire 110-mile corridor through Connecticut is currently being revised and scaled down – although it remains a multibillion dollar project.

The state appears to backing away from plans for a full-length widening because of its prohibitive expense. In its place, Governor Daniel Malloy is proposing an only somewhat more modest plan to expand select sections of I-95, at a cost of $4.3 billion. Still, state lawmakers question how to pay for even that reduced project and are struggling to keep the state’s special transportation fund from falling into a deficit in the fiscal year starting July 2018.

Tampa Bay Express Lanes, Florida

**Status: Study and Review**

The Tampa Bay Express project, estimated to cost at least $3.3 billion, is a plan to expand I-275, building tolled express lanes on the highway (including on the Howard Frankland Bridge), as well as I-75 and I-4. The highway would have significant negative impacts on urban neighborhoods adjacent to I-275, which already tore a hole through the historic Central Avenue business district, Seminole Heights and West Tampa when it was first built.

When project was rebranded in 2017 as Tampa Bay Next, it still contained most of the same project elements, including new lanes for all three interstate highways. However, in May 2018 the Florida Department of Transportation (FDOT) announced that it would no longer seek to build new lanes along I-275 in Tampa between I-4 and Bearss Avenue. FDOT cited “community feedback” in announcing the change in plans.
Work is still moving forward on the plans for I-4 and I-75. Construction will not begin until a federal study reevaluating the use of toll lanes for the project is completed in early 2020.

**Route 20 Widening, Iowa**  
**Status: Under Construction**

The state of Iowa is currently spending $286 million in scarce transportation funding to widen another 40 miles of U.S. Route 20, with construction expected to be completed in 2018. Based on traffic forecasts, only a small portion of U.S. 20 might have enough traffic in 2039 to justify widening. Construction on the highway is currently underway, expected to be completed in October 2018.

**Paseo del Volcan Extension**  
**Status: On Hold**

Lawmakers in the Rio Rancho area are struggling to locate funding for a $96 million, 30-mile road that would start near the Santa Ana Star Center on Unser Boulevard in Rio Rancho and connect with I-40 beyond the Petroglyph National Monument. One of the central purposes of the new highway would be to connect new sprawling development to Albuquerque. This development, however, would consume precious water resources and was shown to be unpopular during the Albuquerque and Bernalillo Comprehensive Plan meetings. The meetings instead highlighted a general preference for urban revitalization over suburban sprawl. Following difficulties procuring funding for the project, the project has stalled, with no official action since 2014.

**I-77 Express Lanes, North Carolina**  
**Status: Under Construction**

The $650 million, 26-mile I-77 Express Lanes project is moving forward after a lawsuit, a tense gubernatorial race, and organized opposition. The project includes the conversion of existing carpool lanes into tolled express lanes as well as the construction of an additional toll lane in each direction between Charlotte and Cornelius. Opposition to the express lanes has come in multiple forms, including attempts by North Carolina legislators to cancel the contract with I-77 Mobility Partners, the private entity charged with building the express lanes. The I-77 Express Lanes’ design and construction phase is expected to take over three years, with all lanes opening to traffic by late 2018. Project construction has created controversy, as it has led to an increase in crashes on I-77, some caused by construction debris striking vehicles.

**Portsmouth Bypass, Ohio**  
**Status: Under Construction**

The 16-mile, four-lane highway to bypass Portsmouth, Ohio, is currently being built for $429 million in an area where driving has declined and existing roads desperately need funding for repairs. The Portsmouth Bypass, now renamed the Southern Ohio Veterans Memorial Highway, will be Ohio’s first public-private partnership and one of the most expensive road projects undertaken in the state. It is projected that the bypass will be completed by December 2018.

**Mon-Fayette Expressway: Route 51 to I-376, Pennsylvania**  
**Status: Study and Review**

The Mon-Fayette Expressway is a proposed $2 billion highway that would run 14 miles southeast of Pittsburgh. Building the highway will require moving families from their homes, along with “moving millions of cubic yards of earth to flatten hills and fill in valleys to level out the terrain through the Monongahela Valley” according to the Pittsburgh Post-Gazette.
Despite the harm to communities and the environment, a precarious financial situation at the Pennsylvania Turnpike Commission (PTC), and more pressing transportation needs in Pennsylvania, state officials are moving forward with the plan. In November 2017, the PTC authorized $34 million in final design contracts for the new highway. If final designs are approved, construction could begin in 2022.

State Highway 249 Extension, Texas
Status: Under Construction

Following the 2015 opening of the six-mile portion of the 249 Tomball Tollway, the Texas Department of Transportation is still looking to further extend State Highway 249 all the way to College Station, home to Texas A&M University. The expansion would mean a two-phased approach to the approximately $350 million, 30-mile, six-lane highway from Pinehurst in Montgomery County through Todd Mission in Grimes to College Station.

During a June 2016 public hearing, nearby residents expressed opposition to the road and showed preference for the no-build alternative. Construction of the road requires the acquisition of over 600 acres of right-of-way, much of which is currently owned by ranchers and farmers, and would result in divisions of existing grazing areas.

Construction of the highway began in December 2017.

Texas: State Highway 45 Southwest
Status: Under Construction

Construction of the 3.6-mile, $109 million State Highway 45 Southwest project started on November 8, 2016. The Central Texas Regional Mobility Authority contracted with McCarthy Building Companies for the construction portion of the project. Construction is expected to last three years, with the new expressway slated to open in late 2019.

Models suggest the new road will cause increased traffic on Austin’s MoPac Expressway, a road already suffering from heavy congestion. Future plans to further expand State Highway 45 Southwest across Farm-to-Market Route 1626 and connecting directly to I-35 would draw even more traffic to the road and consequently to the MoPac expressway.

Puget Sound Gateway, Washington
Status: Under Revision

The Puget Sound Gateway is a $2.8 billion to $3.1 billion project between Seattle and Tacoma, expanding State Route 167 between Tacoma and Puyallup by two lanes and State Route 509 from Kent to Burien by two lanes as well as converting the existing HOV lane to an express lane on Interstate 5 between the ports of Tacoma and Seattle. Evaluations of toll revenue potential for the project estimate that tolls would only contribute about $330 million toward the total project cost between 2021 and 2060. Even after passage of a $16 billion statewide transportation package in 2015, which included funds for the project, additional funds are still needed to build portions of the project.

As of February 2018, the Washington Department of Transportation was reevaluating the project through its “Practical Solutions Process,” which includes reengaging stakeholders, in order to make sure the resulting design addresses real needs.

2014 Projects

I-11, Arizona and Nevada
Status: Arizona – Study and Review, Nevada – Under Construction

The first phase of the Interstate 11 project between Phoenix and Las Vegas – a 15-mile, $318 million segment in Nevada – has been under construction since April 2015, and sections began opening to the public in early 2018. The second phase will be
built in Arizona, where as of February 2018 the Arizona Department of Transportation was still working to select a project route.\textsuperscript{211} Funding for the Arizona section has still not been identified, although just one piece of the route – the Phoenix bypass – would likely cost more than $1 billion.\textsuperscript{212} In January 2017, the Arizona Department of Transportation opened a 45-day public comment period and collected hundreds of comments from residents, tribal nations and agency representatives in accordance with the National Environmental Policy Act process for Tier 1 of the Environmental Impact Statement.\textsuperscript{213} No funding had been identified as of December 2017 for the Arizona portion of the road.\textsuperscript{214}

**Tesoro Extension, California**  
**Status:** On Hold

In 2016, the Orange County Transportation Corridor Agency (TCA), the California Attorney General and a coalition of national and local environmental groups reached an agreement settling multiple lawsuits to protect the San Onofre State Beach and cancel prior approval of the Tesoro Extension project.\textsuperscript{215} The lawsuits claimed the environmental impact statement was inaccurate and that the project would damage the surrounding environment – specifically, a highly popular park that is home to 11 endangered and threatened species.\textsuperscript{216} Now, however, the TCA is looking at new routes for the highway that would cut through the city of San Clemente – and the city of San Clemente is suing to overturn the previous agreement keeping the highway out of San Onofre State Beach.\textsuperscript{217}

**C-470 Express Lanes, Colorado**  
**Status:** Under construction

Construction on the new C-470 Express toll lanes started in November 2016 and is expected to last until spring 2019. The $230 million project will add new tolled express lanes along 12 miles of the existing highway southwest of Denver.\textsuperscript{218} In 2015, residents filed a lawsuit in which they expressed concerns with CDOT that the additional lanes would increase noise pollution in the area. In December 2016, a federal judge ruled that the residents had failed to show that noise barriers were needed and did not approve the injunction to halt construction of the express lanes.\textsuperscript{219}

**Effingham Parkway, Georgia**  
**Status:** Study and Review

Proposed as a parallel road to the existing Route 1, the 6.36-mile Parkway is intended to connect U.S. Route 30 to Bluejay Road.\textsuperscript{220} In 2016, the state officially pledged $44 million for the Parkway project following a gas tax increase passed by the legislature.\textsuperscript{221} The project had previously been stalled by local opposition to the displacement of homes and because the Chatham County Commission Chairman hadn’t wanted to make the Parkway a priority.\textsuperscript{222} Final plans for the project are in the process of being reviewed by the Georgia DOT, and right of way negotiations have begun. Construction is expected to begin in 2019.\textsuperscript{223}

**Illiana Expressway, Illinois and Indiana**  
**Status:** On Hold

The Illiana Toll Road project – a $1.3 billion highway intended to stretch from I-55 in Illinois to I-65 in Indiana.\textsuperscript{224} The project was put on hold by Illinois governor Bruce Rauner in 2015 after the project faced harsh public criticism, though concerns remained that it could be resurrected. The organizations Openlands, Midewin Heritage Association and Sierra Club Illinois also won a major lawsuit in October 2016 against the project, following an earlier case in which a court ruled the environmental review of one portion of the project violated U.S. environmental law, calling it “arbitrary and capricious.”\textsuperscript{225} Because the environmental review for
another portion of the project relied on that initial review, the judge declared it to be invalid.

**Widening I-94 Through Detroit, Michigan**

**Status: Under Revision**

Original plans for the “I-94 Modernization” project were to spend $2.7 billion to widen a 6.7-mile stretch of highway through the heart of Detroit. The project was reanimated by the Michigan Department of Transportation after it was abandoned in the 1990s and was set to add a lane in each direction, while demolishing buildings along the way in an area struggling to recover from economic recession. Two neighborhoods that had been making significant headway in economic recovery – Midtown and New Center – would have been further separated by the highway, creating large losses in land development potential.

Following public outreach, the Michigan DOT has begun to rethink its plans. Public comments widely objected to widening the highway, and called for better neighborhood connectivity and better pedestrian and bicycle infrastructure. MDOT is currently studying whether additional lanes are actually appropriate for the highway, and is considering alternatives to managing congestion, including an active traffic management system that could open and close auxiliary lanes. Proposed modifications would no longer include widening the highway footprint. Construction is expected to begin in 2019, although as of early 2018 environmental review is ongoing.

**I-26 Connector, North Carolina**

**Status: Study and Review**

The I-26 Connector project is a 7-mile, $750 million proposed freeway that would connect I-26 in southwest Asheville to U.S. 19/23/70 in northwest Asheville. In January 2017, the North Carolina Department of Transportation (NCDOT) proposed changes that would accelerate the project completion date to 2024. The state now plans to use bonds to finance the connector, with anticipated federal highway fund receipts expected to repay the bonds. NCDOT is also changing the project to a “design-build” project, meaning that the construction company that wins the contract will draw up final project designs as well as build the connector. Previous plans to widen I-240 as part of the I-26 Connector project were dropped after better congestion measures and data were used to rank proposed projects, though the potential for widening remains on the table for the future.

North Carolina DOT began final revisions to the project plan in early 2017, and the final environmental impact statement is set to be submitted in 2018. Construction and right of way acquisitions are scheduled to begin in 2020.

**Cleveland Opportunity Corridor, Ohio**

**Status: Under Construction**

The Cleveland Opportunity Corridor is a $331 million, five-lane, three-mile planned boulevard that would connect I-490’s south end to the northeastern University Circle neighborhood. Critics had previously pointed out that the road is unnecessary since there are several routes in the area that connect the two points already. Work on the road is underway, although construction on the largest phase of the project was delayed by a lawsuit.

**Dallas Trinity Parkway, Texas**

**Status: Cancelled**

The proposal for a $1.5 billion, nine-mile toll-road along the Trinity River between I-35 and U.S. 75 was swept into a larger conversation about the future of toll roads in Texas and the future of urban development in Dallas. In August 2015, the Dallas City Council voted unanimously to revise and downscale the road to a four-lane version, instead of the previously
proposed six-lane toll road. And in August 2017, the Dallas City Council voted 13-2 to pull its support for the parkway, likely ending the project for good.

**Alaskan Way Viaduct, Washington**

*Status: Under Construction*

The Alaskan Way Viaduct replacement project includes the construction of a two-mile tunnel to bypass downtown Seattle, a mile-long stretch of new highway to connect to the tunnel, a new overpass to bypass train blockages near Seattle’s busiest port terminal, demolition of the viaduct’s downtown waterfront section, and a new Alaskan Way boulevard along the waterfront. The purpose of this massive project is to replace the existing Alaskan Way Viaduct, an elevated section of State Route 99 that is aging and vulnerable to damage from earthquakes.

The project, a $3.1 billion undertaking, was mired in controversy and delays from the start. “Bertha,” the boring machine being used for the project, was stuck underground for two years after only advancing one-ninth of the way to its final destination, costing the project at least $60 million. Bertha was eventually fixed and completed tunneling for the project in April 2017. The tunnel is set to open to the public in late 2018.

**I-94 East-West Expansion in Milwaukee, Wisconsin**

*Status: Cancelled*

The Wisconsin Department of Transportation proposed the addition of two lanes along a 3.5-mile corridor of I-94 west of downtown Milwaukee. The project was expected to cost between $825 million and $1.15 billion but no funding sources had been identified. Previous estimates of a possible completion date for the project were as late as 2028.

The Wisconsin Department of Transportation withdrew its support from the project in early October 2017, after Governor Scott Walker signed a new state budget that did not include funding for the project. Later that month, the U.S. Federal Highway Administration and U.S. Department of Transportation formally rescinded their record of decision approving the expansion. Reports in February 2018, however, indicated that some Wisconsin lawmakers are hoping to revive the project.
Conclusion and Recommendations

America spends tens of billions of dollars each year on highway expansion projects that do little to address congestion, create other problems for our communities, and absorb scarce resources that could be used to meet other, more pressing transportation needs.

Officials at all levels of government – local, state and federal – should reexamine proposed highway expansion projects in light of changing transportation needs and adopt a series of other policy changes to prioritize real transportation improvements. Specifically, they should:

• **Invest in transportation solutions that reduce the need for costly and disruptive highway expansion projects.** Investments in public transportation, changes in land use policy, road pricing measures, and technological measures that help drivers avoid peak-time traffic, for instance, can often address congestion more cheaply and effectively than highway expansion.

• **Adopt fix-it-first policies** that reorient transportation funding away from highway expansion and toward repair of existing roads and investment in other transportation options.

• **Use the latest transportation data and require full cost-benefit comparisons for all projects, including future maintenance needs.** This includes projects proposed to be completed via public-private partnerships.

• **Give priority funding to transportation projects that reduce growth in vehicle-miles traveled,** to account for the public health, environmental and climate benefits resulting from reduced driving.

• **Invest in research and data collection** to better track and react to ongoing shifts in how people travel.

• **Revise transportation forecasting models** to ensure that all evaluations of proposed projects use up-to-date travel information, reflect a range of potential future trends for housing and transportation, and incorporate the impact of all transportation options, from public transit, biking and walking, to newer options such as carsharing, bikesharing and ridesharing.
Notes


2. Ibid.


5. See note 9.


11. See note 1.


13. See note 1.


27. 1,500 square miles based on expansion of public road lane miles from U.S. Department of Transportation, *Highway Statistics 2015*, Table HM-260, December 2016, and a conservative assumption of 10-foot wide traffic lanes.


29. See note 9.


43. Based on Google search conducted 4 April 2017.


49. See note 47.


52. See note 47.


54. ACS Infrastructure Development, Inc., *Response To Request For Information For The I-495/I-95 (Capital Beltway) Congestion Relief Improvements From The American


56. Colin Campbell, “West Virginia Will Pay Maryland $1.5 Million to Keep MARC Service for a Year. Then What?,” The Baltimore Sun, 28 April 2018.


60. Image screenshot of I49 Inner City Connector taken from https://www.arcgis.com/home/webmap/viewer.html?webmap=cc22e9d8561e4f884b931e919560817&extent=-93.8379,32.4896,-93.7152,32.5467.


63. See note 59.


68. See note 58.


74. Ibid.

75. See note 72.


78. This is even though the “no build” alternative used for comparison assumes no traffic management features that could potentially reduce driving and emissions, features that are included in the “build” option. See note 73 (table 3.2-2, page 269).


81. See note 58.

82. Ibid.

83. Amy Denney, “TxDOT goes big with $8.1 billion I-35 plan; official says reconstruction ‘will be messy’,” *Community Impact Newspaper*, 7 December 2017.


95. Ibid.


97. Ibid.


105. Ibid.


115. See note 113.


122. Ibid.


129. Ibid.


131. See note 128.


136. Based on current google maps directions indicating current route takes 24 minutes from Wandermere Golf Course to I90. Project website says it will make the whole trip take 12 minutes: Washington State Department of Transportation, US 395 - North Spokane Corridor, archived at http://web.archive.org/web/20180106175926/https://www.wsdot.wa.gov/Projects/US395/NorthSpokaneCorridor/.


138. See note 58.


144. Erika Aguilar, “Legal Fight Over the 405 Expansion In Orange County Moves to San Diego,” KPCC, 6 April 2016.

145. Sean Emery, “Construction to begin on a $1.9 billion widening of the I-405 freeway in Orange County,” Orange County Register, 23 January 2018.


153. See note 58.


177. Ibid.

178. Ibid.


182. Ibid.


191. Ibid.


197. Ibid.

198. Ibid.

199. Ibid.


201. Ibid.


204. Ibid.


207. Ibid.


212. Ibid.

214. See note 211.


217. Fred Swegles, “2 San Clemente lawsuits challenge efforts to extend 241 Toll Road,” *The Orange County Register*, 1 August 2017.


225. Ibid.


228. Ibid.


231. See note 229.


235. Ibid.


239. Elizabeth Findall, “Dallas Council Agrees on Trinity Parkway Compromise Limiting Funds to 4-lane Road,” *Dallas Morning Times*, August 2015.


242. Ibid.

243. Mike Lindblom, “Highway 99 tunnel in Seattle will open to traffic this fall, the state and contractors say,” *Seattle Times*, 11 January 2018.

244. Ibid.


