

KEEPING A VITAL REGION MOVING

Transurban's Northern Virginia Express Lanes



Driving transformative travel solutions through the power of partnerships

We came to Virginia with a simple idea: governments and businesses can work together to save travelers time and help taxpayer dollars go further, all while investing in the community and growing the economy. Public-Private Partnerships (P3s) and a new model for financing, delivering, and operating transportation took hold in the region.

In the early 2000s, the Virginia Department of Transportation (VDOT) considered a proposal for traditional highway expansion to help relieve congestion on the Capital Beltway (I-495) between Springfield and Tysons - one of the most congested corridors in the United States. The plan was unpopular. It would require the taking of hundreds of homes and businesses, deplete public funding, and lacked any multimodal incentive to serve the growing business and residential areas along the corridor.

Opened in 2012, the 495 Express Lanes unlocked this congested corridor, delivering 14-miles of the first truly dynamically tolled Express Lanes in the US. The defense-grade technology allowed travelers to move at reliable speeds for first time on 495 - all while reducing construction costs and impacts to communities. Today, customers using the 495 Express Lanes alone during rush hour are now saving more than 20 minutes on their commutes.

A decade after our work in the region began, Virginia has recognized what works. Our initial 14-mile project has turned into a 63-mile system, which with new expansions underway, will soon turn into a 65-mile seamless system of Express Lanes across 495, 95, and 395. Our Express Lanes are more than just roads - we are delivering transportation solutions that invest back in communities, drive economic opportunity, and fund a more sustainable, connected region.

Impact of the 495, 95, and 395 Express Lanes



IMPROVING MOBILITY

NEARLY 10.5 MILLION
unique customers

37 MILLION HOURS
of time saved

UNDER \$11
average toll paid

105% GROWTH
in both HOV-3 and bus trips

112 MILLION
passenger miles removed annually
via transit trips



STRENGTHENING ECONOMIES

\$4 BILLION
in future-ready infrastructure

\$8 BILLION
in economic impact

53,000+
jobs being generated

OVER \$1 BILLION
in small, women and minority contracts



INVESTING IN COMMUNITIES

\$60 MILLION+
invested in public transit to date

\$2.4 MILLION
invested in 360+ different non-profits



A first of its kind partnership that delivered a first of its kind roadway

Together with Virginia, we broke new ground and today we continue to be recognized for our partnership's ingenuity in delivering transportation solutions that maximize value for all stakeholders.

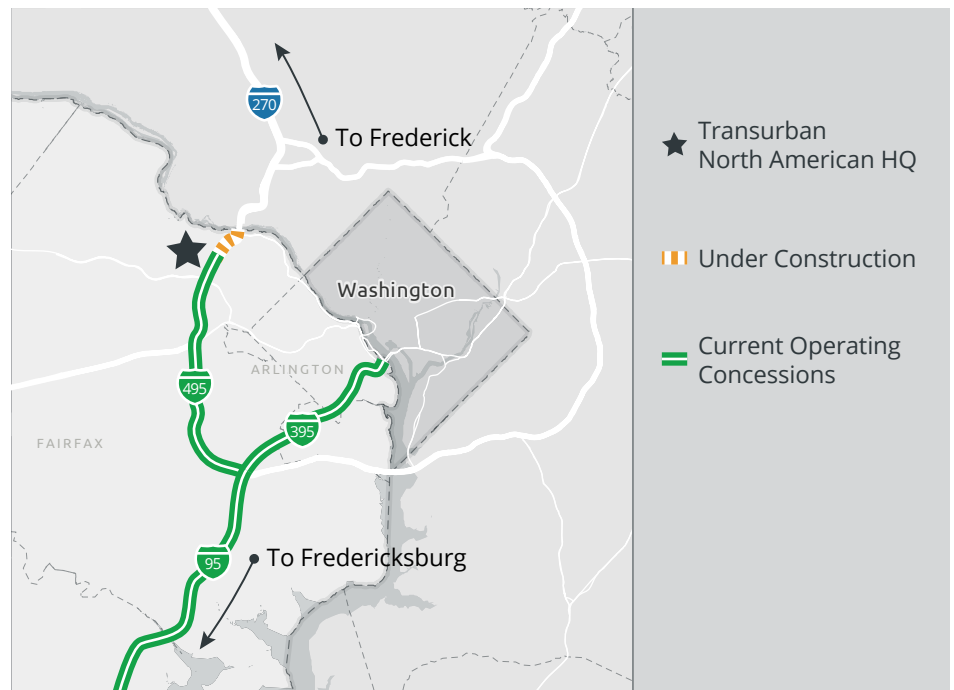
The 495 Express Lanes pioneered the first:

- **truly dynamic toll lanes in the US**, with variable toll prices that can now be adjusted up to every 8 minutes accordance with real-time traffic conditions
- **managed lanes P3 in Virginia**, leveraging the best of the private sector innovation to reimagine traditional highway development
- transportation project to **combine low-interest, flexible federal credit programs** (TIFIA and Private Activity Bonds)
- development of **commuter-friendly E-ZPass "Flex"** alongside VDOT
- incentive for **ridesharing, carpooling, and mass transit** travel on 495
- **package of significant improvements** on 495 in Northern Virginia in a generation
- significant investment by the **private sector in a US P3** greenfield project
- **historic investment in DBE/SWaM** in Virginia upon project delivery

We work in lockstep with the VDOT to operate a complex "highway within a highway" that combines the latest technology with a focus on customer experience to provide a fast, safe and reliable trip.

We achieve this by:

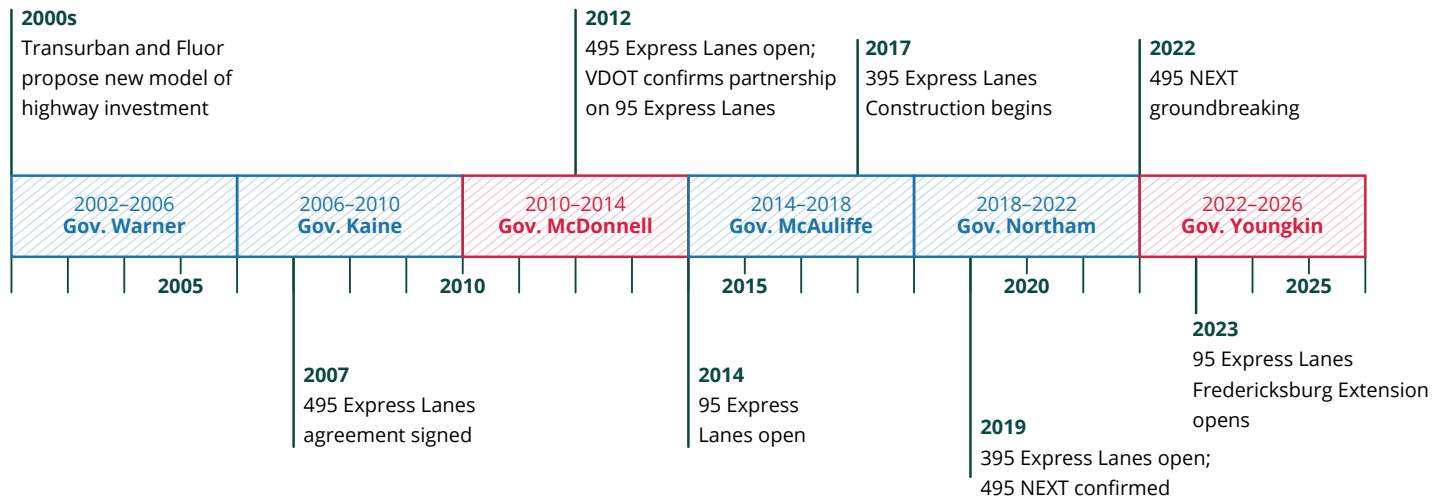
- Incentivizing carpoolers, rideshares and buses to travel for free, with the option for single-occupant travelers to pay for a reliable trip.
- Using sensors, located every 1/3-mile, to calculate about 2,000 data points per mile to price a trip to keep traffic moving reliably around 55 mph more than 99% of the time.
- Keeping our eyes on the road 24/7 with 350 CCTV cameras and dedicated incident management teams responding to on-road issues in under 8 minutes on average.



The partnership that delivered the 495 Express Lanes has become a persuasive blueprint for the Greater Washington Area's transportation future. Those first 14 miles of Express Lanes we delivered with VDOT is now part of a developing 65-mile network of Transurban Express Lanes serving 12 counties and jurisdictions.

Two decades of bipartisan leadership

We understand what matters to our stakeholders and strive to create transportation solutions that make us a partner of choice. That means structuring partnerships, across administrations, to continually innovate and drive mobility solutions forward. We have put our investments to work to strengthen the region’s economy and ensure we are helping build healthier, more sustainable communities along our corridors.



“The Commonwealth’s public-private partnerships with Transurban have transformed how people travel in Northern Virginia, providing a faster, safer, more reliable trip for the millions who choose to use the Express Lanes. This partnership with Transurban has brought advanced transportation systems and innovative project financing to deliver critical infrastructure that has helped create tens of thousands of jobs and billions in economic development. The Commonwealth’s partnership with Transurban is a model for the nation.”

— Aubrey Layne, Former Virginia Secretary of Transportation (2014-2018) and former Virginia Secretary of Finance (2018-2021)

“Transurban has delivered for the Commonwealth time and time again, their Express Lanes move thousands of people faster and safer each day, reducing congestion and helping create a flourishing economic environment in Northern Virginia. Transurban brings so much to these projects because their partnership with the Commonwealth is there for the long-term—they are now a Virginia company that looks out for the best interest of the people in Virginia.”

— Sean Connaughton, Former Virginia Secretary of Transportation (2010-2014)

“Transurban’s Express Lanes have greatly benefited the Northern Virginia region by increasing mobility and reducing congestion, creating jobs, and making our region more economically competitive. The Express Lanes are a key piece to an improved transportation network that has enhanced transit and car-pooling options, helping get my constituents to work and home on time.”

— Senator Dave Marsden, Chairman Virginia Senate Transportation Committee



TRANSFORMING THE REGION

Improving Mobility

Pioneering the use of real-time pricing technology across 63 miles of roadway, we've been able to save nearly 10.5 million customers more than 37 million hours of time while moving at average speeds of 55 miles per hour—all at an average trip cost of under \$11.00.

With smarter roads designed to move more people, the Express Lanes are helping an estimated 50,000 more people travel between Springfield and Tysons each day compared to before the Express Lanes were built. That extra throughput is made possible by providing free travel to carpoolers (HOV-3+), ridesharing vehicles, and bus transit. The result is 105% growth in both HOV-3 and bus trips across the 495, 95, and 395 corridors since 2012.

With this value of time back in a busy day, our customers—often young families with incomes under \$100,000 per year—are highly satisfied (76%) with their experience on the Express Lanes. More than half of Greater Washington Area drivers have used the Express Lanes and 69% believe that the expanded travel choices offered are benefiting the region.

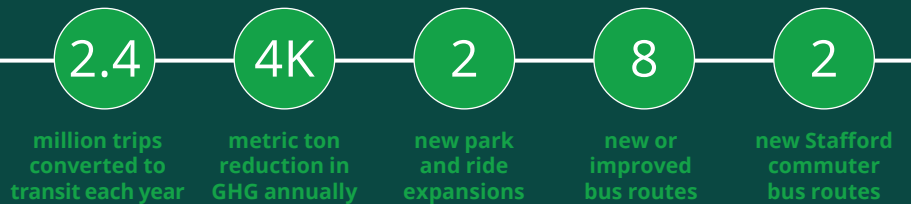
PARTNERSHIP IN ACTION:

Toll revenue provides dedicated transit funding for Northern Virginia

Our mission to strengthen communities through transport means we are also directing toll revenue towards sustainable, equitable transit investments that are providing connections beyond our roads and reducing greenhouse gas (GHG) emissions across the region.

We've committed \$15 million annually of toll revenue to Virginia's Commuter Choice Program to optimize transit investments along the 395 and 95 corridors.

Transurban's contributions to date are supporting:



The Commonwealth of Virginia and Transurban continue to leverage the long-standing Express Lanes P3 to advance mobility solutions. When opened, the 495 Express Lanes Northern Extension (495 NEXT) project will provide \$5.2 million to purchase an initial fleet of buses, while Transurban will fund \$2.2 million annually to operate new, reliable bus service between Tysons, Virginia and Bethesda, Maryland where none exists today.

Our P3s are delivering more than Express Lanes

Together with Virginia, we have been able to bundle and accelerate the delivery of valuable public infrastructure projects that are benefitting millions of people each year—whether they use the Express Lanes or not.

Our flexible partnership is bringing forward hundreds of millions of dollars in future profit sharing to bolster Virginia's funding of a new Long Bridge, a vital rail connection for passengers and commerce across the Potomac River. This flexible use of our concession is also providing funding towards the I-95 northbound Rappahannock River Bridge project in Fredericksburg.

And as part of the 395 Express Lanes, we accelerated the reconstruction of the Pentagon's South Parking Lot to support safer connections for the 1,800 buses and 3,400 carpoolers using this busy regional transit hub every day. We also constructed a new 4th general purpose lane to further optimize capacity along this key corridor between DC and Northern Virginia's suburbs.



MORE EXPRESS LANES



Strengthening Economies

Already one of the most vibrant economies in the world, Transurban’s Express Lanes have served to bolster the region’s connectivity, helping to attract some of the world’s largest employers—all while infusing billions of dollars and thousands of jobs into the local economy.

In the four years following the opening of the 495 and 95 Express Lanes, 55% of job growth in the region took place in Northern Virginia, more than double the job growth in Maryland or DC. With faster, more reliable travel options at their doorstep, major employers like Amazon, Boeing, Raytheon and Capital One have joined or rapidly expanded their presence in Northern Virginia.

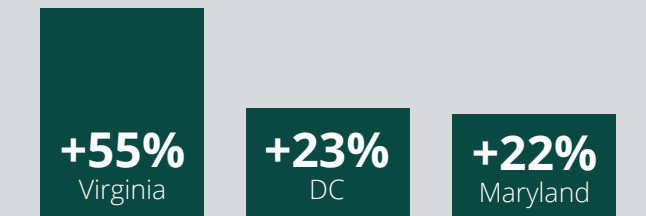
But it’s not just about big business. We’ve invested nearly \$1 billion in small, women, and minority-owned businesses over the last decade and we are proud to have exceeded the state’s collective DBE/SMaM contracting goal upon delivery of the 495 Express Lanes.

We’re helping create generational wealth for small and under-represented businesses, while helping small business owners get where they need to go across the region. Employers also see the Express Lanes as an important travel option for their employees. In fact, across the for-profit, government and non-profit sectors, one in ten Greater Washington Area drivers say their employer pays their tolls.

CUMULATIVE EXPRESS LANES GROWTH AND IMPACT

YEAR	MILES	LANES	IMPACT	JOBS
2012	14	495 Express Lanes	\$3.5B	16,000+
2014	45	95 Express Lanes	\$5B	28,500+
2019	53	395 Express Lanes	\$6B	37,500+
2023	63	Fredericksburg Extension (Fred Ex)	\$7.1B	46,200+
2025	65	495 Northern Extension (495 NEXT)	\$8B	53,200+
TOTAL VIRGINIA ECONOMIC IMPACT			\$8B	53,000+

PERCENT OF REGIONAL JOB GROWTH 2014-2018



“Transurban’s Express Lanes have been essential to the region’s economic growth, creating jobs and billions in economic development. Companies we have recruited to the region want a variety of transportation modes for their employees and customers, and the Express Lanes are a critical part of our everyday transportation infrastructure. With the Express Lanes we are at the forefront of a cutting-edge, multi-modal network that moves people faster and safer.”

—John Holden, Executive Director of Stafford County Economic Development and Tourism



PARTNERSHIP IN ACTION: Expanding access to major employers

In 2017, VDOT and Fairfax County publicly funded construction of new access to Route 123 via Jones Branch Drive over 495. The improvements included new direct access to the Express Lanes - ensuring Capital One’s 11,000 employees working at the banking giant’s growing one million square-foot national headquarters had easy access to the Express Lanes’ expanded travel choices and faster, more reliable service.

Investing in healthier, more sustainable communities

Our initiatives reach beyond the roads we operate—they extend into the communities along our corridors and drive impact even beyond.

A major element of our community support is our Community Grant Programs that, along with other donations, has so far contributed \$2.4 million to over 360 local organizations that provide vital improvements through initiatives such as: food and housing security; sustainable community practices; education; community safety; and healthcare.

We're also investing in the safety of area motorists across the region. From anti-distracted driving campaigns to child passenger seat checks, we are focused on helping all travelers get home safely.

Set outside of the US Capital, our Express Lanes help move the largest population of military, veteran and government employees so it is important for us to direct resources to those who serve and sacrifice for the nation. To celebrate the 10th anniversary of the Express Lanes, we've donated \$25,000 to create a dedicated military and veteran fund within Northern Virginia Community College's (NOVA) Student Success Fund. This fund ensures that NOVA's more than 4,000 military and veteran students have emergency grants and scholarships to help maintain their studies.

Transurban's latest donation to NOVA joins other non-profits supporting our veteran and military communities including the 9/11 Pentagon Memorial Fund, Virginia Star Quilts for Valor, and Workhouse Arts Center arts programs for wounded soldiers.

PARTNERSHIP IN ACTION: **495 Express Lanes Northern Extension**

The power of partnership is exemplified with the 495 NEXT project, a collaboration with the Commonwealth of Virginia and Fairfax County. Working to meet the needs of both the Commonwealth and Fairfax County, the 495 NEXT project will provide a set of multi-modal solutions that will provide a greater connection to the George Washington Memorial Parkway, Dulles Toll Road and in the future across the American Legion Bridge. The project includes \$5.2 million dollars for the purchase of a bus fleet and \$2.2 million annually to run a bus line between Tysons, Virginia and Bethesda, Maryland across the American Legion Bridge, where no bus line exists today. The annual transit investment is anticipated to generate over 172,000 transit trips, removing nearly 4.7 million passenger miles from our roadways while also reducing our greenhouse gas emissions by over 1,650 metric tons each year.

In addition, the project includes a 3-mile bike and pedestrian trail that is included in Fairfax County's comprehensive plan as well as \$1.4 million to support the County's efforts to restore the Scotts Run stream.



DRIVING TOWARD A NET ZERO FUTURE

We're not just looking back. We're pioneering new solutions to manage environmental impacts and help mitigate the impacts of climate change.

We cannot—and have not—been sitting idly by without reducing our use of nonrenewable materials and energy. As the 3rd ranked transport company globally in the Dow Jones Sustainability Index we are always considering ways to design our assets with the goal of reducing our footprint and bringing it closer to net zero by 2050.

While we are striving to reduce our operational carbon emissions, we also need to adapt to more frequent and intense weather events. We are constantly re-evaluating each asset's response to climate events and raising the resilience of its physical components to ensure that we can strengthen communities through our innovative design, delivery and operations.

As a future-focused company, we're serious about sustainability. We've set mandatory Silver (or higher) Envision-rating targets for the design of all applicable new major projects. Both our 495 NEXT and Fred Ex projects are aiming at achieving Silver Envision ratings.

Keeping cities moving faster and safer today—and decades from now

Transportation needs are changing fast so we are looking decades ahead — testing the mobility trends of tomorrow like Connected and Autonomous Vehicles (CAVs), smart infrastructure, and pay-as-you-drive options to ensure we continue to build and operate future-ready roads and help government decision makers drive the best policies.

Already among the most technologically advanced in the US, our Express Lanes are uniquely positioned to provide a test bed environment for the early deployment of the latest mobility trends.

CONNECTED AND AUTONOMOUS VEHICLES (CAVS) AND INFRASTRUCTURE

From partnering with the Federal Highway Administration on CAVs trials to remotely driving a vehicle miles away through Silicon Valley's Phantom Auto technology, we are using the Express Lanes' Intelligent Transportation Systems (ITS) and controlled environment to identify how smarter vehicles behave on the road.

Next up, we are also partnering with Robotic Research—a Maryland-based leader in automated technology to test how larger automated vehicles, like buses, can interact with infrastructure. Using a propriety software and Transurban's data rich roadways, we are looking to provide large automated vehicles expanded range of information beyond their sensors to travel more safely and efficiently. Live on-road trails are set for 2023.

ROAD USER CHARGING

With a multi-trillion dollar backlog in infrastructure investment in the US, identifying sustainable funding sources for the depleted Highway Trust Fund has never been more important. So we're partnering with government and the Eastern Transportation Coalition (ETC) to identify both technology and policy solutions for more sustainable and equitable transportation funding—beyond the fuel tax.

Our 2021–2023 Road User Charging trials include hundreds of real-world participants testing in-vehicle technology to provide operators and policy-makers insights into public perception, as well as on- and off-road technology requirements.

MOBILITY AS A SERVICE (MAAS)

Ride-hailing and ride-sharing services, multi-modal transport platforms and transport-on-demand apps are already giving people greater certainty, choice and convenience in how they travel. Transurban continues to work towards providing our customers with options and information for making informed transport choices. This endeavor has seen us form partnerships with other companies in the MaaS space to develop the capability to give our customers the most useful information about their trip, ultimately saving them time.

THE
ROAD
AHEAD

PARTNERSHIP IN ACTION: MORE SEAMLESS TRAVEL CHOICES

We continue working with our government partners, delivering multiple projects across Northern Virginia.

We're delivering 12.5 miles of new Express Lanes to the north (495 NEXT). At the same time we are also continually delivering road enhancements like the Seminary Road (395) conversion of the HOV ramp and the development of new Express Lanes access at Opitz Boulevard (95) to serve growing Prince William County. These enhancements will improve connectivity and travel reliability.

Transportation doesn't stop at state lines. Creating seamless connectivity across a region's network requires intensive coordination and a clear, shared vision. This is especially so in the Greater Washington Area, one of the nation's busiest, multi-jurisdiction metro regions.



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