

# **TRANSURBAN**

#### Smarter ways to get around cities

\$32B

market cap

**TOP 15** 

listed company on ASX





\$19B of key infrastructure delivered with government partners

in financed toll road projects in the last 12 months





in projects – procurement – financing – startup investment – operations – safety



\$1.6B in supply chain spend

20,000+
current indirect jobs

2nd

transportation company globally in the Dow Jones Sustainability Index



8.5M customers

1.5M daily trips

328,000 hours average workday travel time savings

### **CAPABILITIES**

### Designing and managing infrastructure for the long-term

# A TRACK RECORD OF PARTNERING WITH GOVERNMENTS TO DELIVER INFRASTRUCTURE THAT MEETS THE LONG-TERM NEEDS OF GROWING CITIES'



Network planning/ forecasting



Community engagement



Development/ delivery



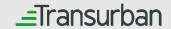
Technology



Operations and Safety

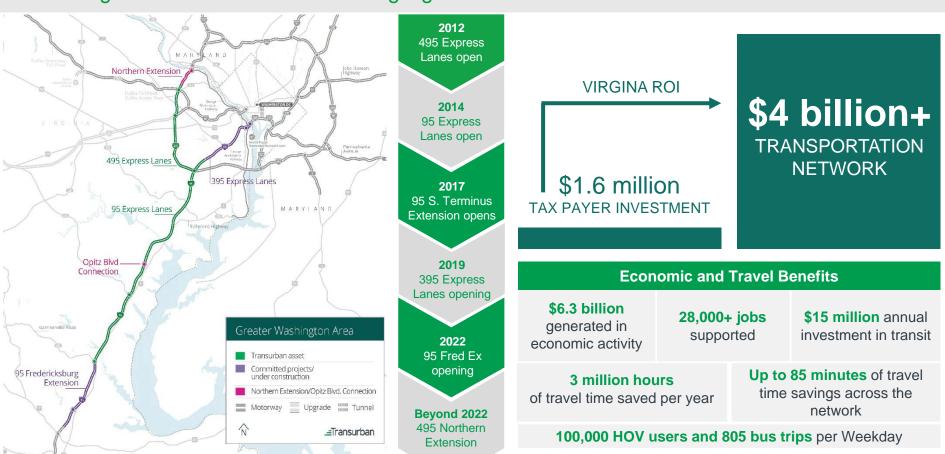


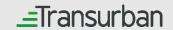
Customer management



### NORTHERN VIRGINIA EXPRESS LANES NETWORK

### Partnering to meet the needs of an evolving region





# **OPERATIONAL EXCELLENCE**

The nation's first real-time, dynamically-priced managed lanes

24/7 traffic control monitoring

Concession management

Lifecycle maintenance

Pricing and congestion management

Customer and worker safety

Monitoring and enhancing technology

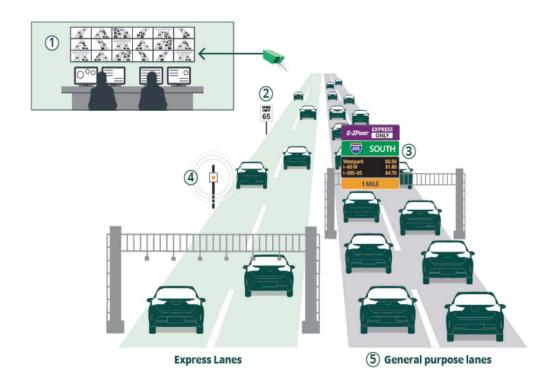
Partner coordination

Customer experience and engagement

Innovating for tomorrow's roads



### How dynamic tolling works



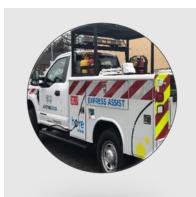
- 1 Express Lanes Operations Center Real-time traffic monitoring 24/7 with incident detection dispatching dedicated response teams
- Managing traffic
  Dynamic tolls manage demand to keep
  the Lanes moving above 45-55mph
- Toll prices
  Toll prices are displayed on variable
  message signs in advance of Express
  Lanes entry points
- 4 On-road technology
  Roadside equipment monitors traffic
  density and toll prices are updated as
  often as every 10 minutes to adjust to
  changes in real-time traffic conditions
- Regular lanes
  Traffic on the regular lanes is also monitored and can affect the toll price



# PRICING AND CONGESTION MANAGEMENT

### Optimizing network performance through real-time data

#### LANES ARE DYNAMICALLY PRICED TO MANAGE USAGE BY BALANCING VALUE OF TIME AND RELIABILITY WITH PRICE



SAFETY



**SERVICE** 



CLIENT



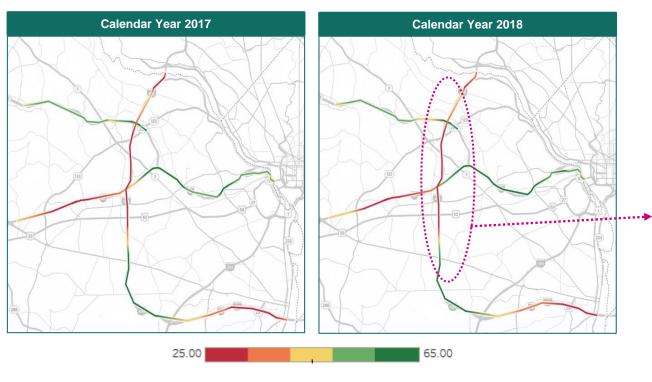
Data and reporting informs minute-to-minute adjustments based on analytic inputs like:

Queues Density Speed Volume Incidents Price

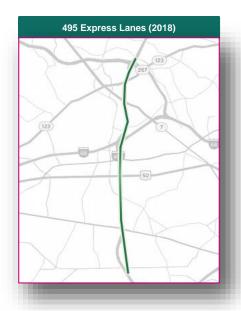
# THE VALUE PROPOSITION



Active traffic management providing trip time reliability



Average PM peak speeds in the General Purpose on weekdays over the past two years highlight the value proposition of the Express Lanes

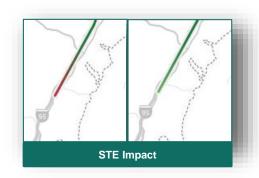


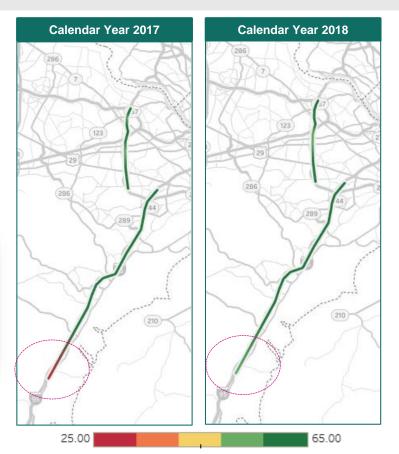
\*Direction of travel shown is SB for 495 and WB for 267 & 66

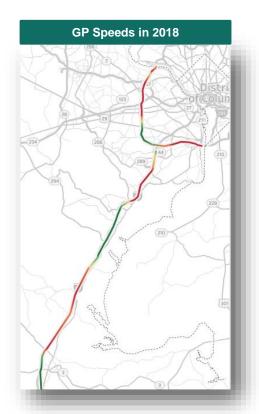
# **NETWORK ENHANCEMENTS**

### Addressing congestion hotspots

Average Southbound speeds in the Express Lanes on Thursdays during the PM peak highlight network improvements (Southern Extension) as well as the value of an Express Lanes trip



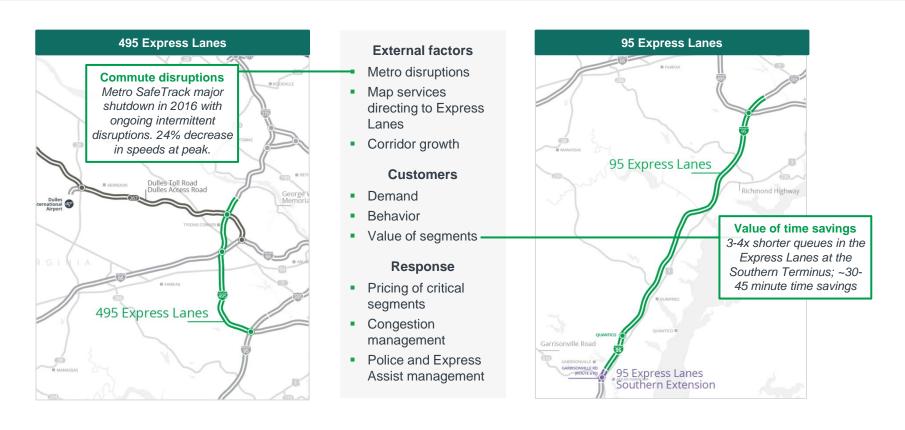






# **OPERATIONAL FLEXIBILITY**

### Monitoring and responding to external factors and customer behaviors



# PARTNERSHIP COORDINATION

Minute-to-minute coordination, spanning a decades-long commitment

















respond to evolving needs

# LIFECYCLE APPROACH

customer needs

A commitment to quality and service for a generation

Upfront investment in infrastructure resiliency

Research and development in emerging trends

WHOLE LIFE
PLANNING APPROACH

Contractual framework to incentivize technology solutions

Network-wide approach to transportation planning

Organizational flexibility to



### UNDERSTANDING OUR CUSTOMER

### Working families with young children

#### **Customers use the Express Lanes for:**







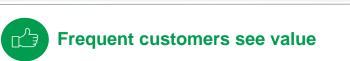
Visiting family and friends



Getting to the airport



Vacation travel



495 Express Lanes		95 Express Lanes
86%	See personal benefit	86%
80%	Positive impression	76%
83%	Satisfied	83%

Frequent customers top 2 reported vehicles







At least **7 in 10** customers check traffic apps when deciding to choose the Lanes



PA

53% have children under the age of 18





73% use convenience services like Amazon at least once a month

### IMPLEMENTING CUSTOMER PROGRAMS

#### Research and data-driven solutions to support customers

#### CUSTOMER SERVICE TEAM



**EDUCATION** PROGRAMS



# CUSTOMER PROGRAMS & TRAVEL GIVEAWAYS



**CUSTOMER RESEARCH** 



# CUSTOMER TOOLS AND PRICE ALERTS



# CUSTOMER WEBSITES AND COMMUNICATIONS



# CUSTOMER AND ROAD SAFETY PROGRAMS



BREAKTHROUGH PUBLIC CAMPAIGNS





# A HISTORY OF INNOVATION

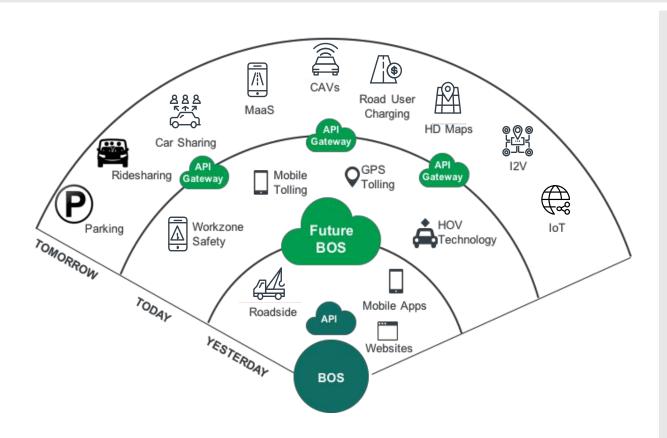
# Driving safer operations and improved customer experience





### TOLLING TECHNOLOGY ECOSYSTEM

Evolving with the technology landscape



- Designing and building to support a rapidly evolving transportation and technology landscape.
- ✓ Foundation for our future:
   Transurban runs its own business through the Platforms we develop
- ✓ Platform 'leverage-able' by Strategic Partners including data sharing, MaaS, and the integration of future transportation trends like CAVs, Road User Charging.



### TRANSURBAN INTERNAL SERVICE OFFERINGS

Back office tolling – one of many service offerings across the value chain











**Asset Management** Road Equipment

**Tolling Back Office** 

Customer

**Channels** 

&

**AMaaS** 

Manage Roads

Construct Roads

Maintain Roads

**ITSaaS** 

Roadside Toll Collection

Capture Toll Data

> Install / Maintain

Tolling as a Service (TaaS)

Create the 'Billable' Trip

**Price Trip** (Billable Unit)

> Human Validation

Identify who should Pay

Reconcile Settlement

Manage Interop Partners

Retail as a Service (RaaS)

Collect Funds

Manage Customer Relationship

Manage Contact Centre

**Enforcement as a Service (ENaaS)** 

**Enforce** 

Pursue Delinquent **Funds** 

Manage Collections Agencies

# READY FOR WHAT THE FUTURE HOLDS

Roads at the center of the mobility revolution



