29 April 2019

2019 INVESTOR DAY PRESENTATION

Please find attached the investor presentation that will be provided at the Transurban Investor Day today.

The presentation will be webcast live from 9:30 am AEST on the Transurban website: www.transurban.com/investor-centre

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asic

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TRANSURBAN INVESTOR DAY

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EXECUTIVE COMMITTEE





Scott Charlton CEO



Adam Watson CFO



Sue JohnsonGroup Executive,
Queensland



Jennifer AumentPresident, North
America



Kristine Cooney Group Executive, Customer



Tony AdamsGroup Executive,
Project Delivery



Andrew Head CEO, WestConnex



Michele Huey Group Executive, New South Wales



Henry ByrneGroup Executive,
Corporate Affairs



Lisa TobinGroup Executive,
Technology



Wes Ballantine Group Executive, Victoria and Group Strategy



Suzette Corr Group Executive, People and Culture



Vin VassalloGroup Executive,
Development

WORK ZONE SAFETY DISPLAY

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- Transurban and Telstra developed a connected technology platform proof-of-concept to improve safety for workers
- Detects approaching vehicles and alerts workers on site
- Sensor enabled devices detect errant vehicles and warn workers, as well as track if workers move outside designated safe areas
- Robotic self-wheeling traffic cones reduce exposure to live traffic through remote deployment from a safe location







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STRATEGY AND FUTURE OUTLOOK

SCOTT CHARLTON - CEO

SUSTAINED PERIOD OF VALUE CREATION

*=*Transurban



Transurban portfolio milestones

- M5 West widening
- 95 Express Lanes
- · Cross City Tunnel
- · Queensland market entry
- · CityLink-Tulla Widening

- framework
- · Asset recycling program and infrastructure ramp up in NSW and VIC
- AirportlinkM7, ICB, LEP
- NorthConnex
- 95 Express Lanes extension
- 395 Express Lanes
- · West Gate Tunnel Project

- investment class
- · Emerging sector dynamics: smart mobility, RUC, CAVs and ZEVs
- · 95 Express Lanes Fredericksburg Extension
- A25 acquisition
- WestConnex
- 495 Express Lanes Northern Extension

NEAR-TERM PRIORITIES





DELIVER COMMITTED PROJECTS¹

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Timelines illustrative and not to scale.





See appendix for footnotes.

MAXIMISE PERFORMANCE OF OPERATIONS

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Continued optimisation

- New Express Lane access points in GWA
- Optimise use of dynamic speed management on CityLink
- Implement low-cost congestion solutions in NSW
- Progress ramp-metering trials in QLD
- Continued focus on incident response and clearance times

Technology-driven process improvements

- Trial of new video-tolling technologies to optimise revenue collection and improve incident management on assets
- Optimise traffic forecasting processes and explore predictive maintenance with artificial intelligence

Operational efficiencies

Scalability of systems across tolling operations and finance

Asset enhancement opportunities





Operational improvements



ENHANCE CUSTOMER AND COMMUNITY OFFERINGS

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Ongoing stakeholder engagement

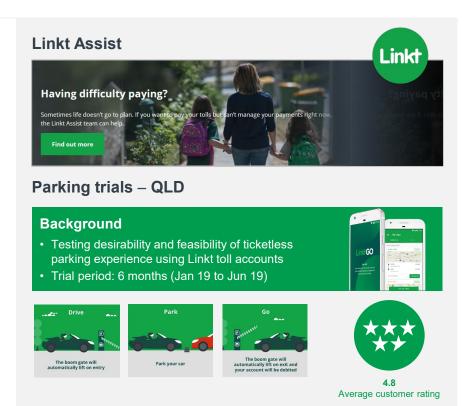
- WestConnex
- West Gate Tunnel Project
- Community partnerships and best practice engagement principles

Improved customer experience

- Linkt Assist dedicated hardship team
- Trip Compare
- Decision point signage

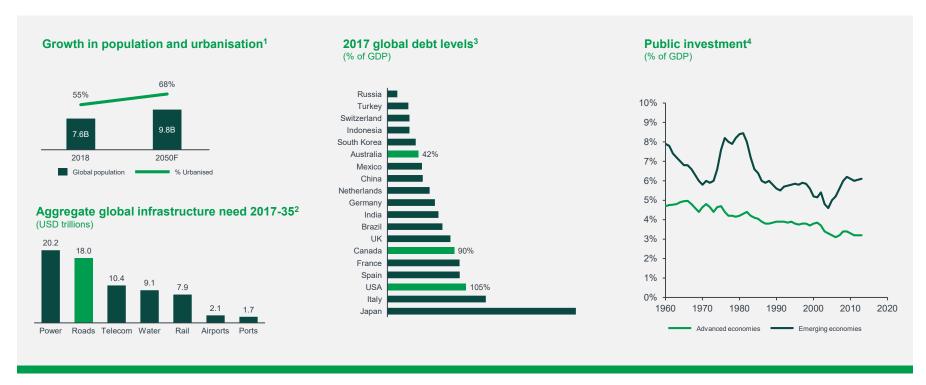
Innovative offerings for customers

- Parking trials with LinktGO
- Fuel partnerships



_Transurban

ROBUST OUTLOOK WITH CONTINUED NEED FOR PRIVATE SECTOR INVESTMENT



See appendix for footnotes.

OPPORTUNITY PIPELINE PROMISING



Existing asset base

- Government-owned 49% WestConnex stake (Sydney)
- M7 widening (Sydney)
- Gateway Motorway widening (Brisbane)
- Logan Motorway widening (Brisbane)

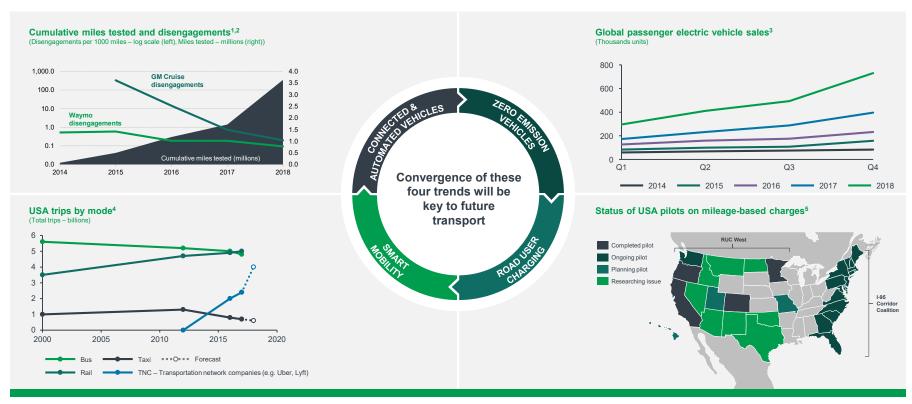
Additional development opportunities

- Western Harbour Tunnel and Beaches Link (Sydney)
- Broader GWA opportunities
- Engagement in Montreal with new Quebec government
- USA asset privatisation agenda



DISRUPTIVE MARKET DYNAMICS CONTINUE TO TAKE SHAPE

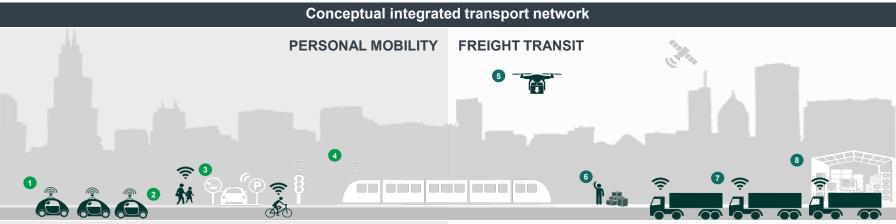




See appendix for footnotes.

THE FUTURE OF TRANSPORT IS INTEGRATED





Changing social attitudes coupled with favourable economics will result in increased usage of new mobility options offering greater convenience and personalised choices

CONNECTED AND AUTOMATED VEHICLES (CAVs)
 Self-driving vehicles will shuttle people in and out of the city and private vehicle ownership will decline

2 ROAD USER CHARGING (RUC)

Use of roads will be charged based on distance with dynamic pricing to manage time-of-day congestion

3 ZERO EMISSION VEHICLES (ZEVs)

ZEVs will dominate new car sales with infrastructure and services updated to support a substantial vehicle fleet

4 SMART MOBILITY

New services will integrate multiple transport modes, payments and routing options to provide a seamless customer mobility experience

A highly automated and integrated freight sector will rely increasingly on dedicated freight hubs, corridors and active management of the road DRONES AND AUTONOMOUS GROUND VEHICLES

Drones and autonomous ground vehicles will enable and drive down the cost of last mile deliveries in dense urban areas

6 LOAD POOLING AND LOGISTICS SERVICE PROVIDERS

New offers will shift businesses from dedicated fleets to service providers whilst third parties will capitalize on pooling spare capacity

PLATOONING AND INTEGRATED NETWORK MANAGEMENT

V2X communications will enable automated platooning and integrated network management services

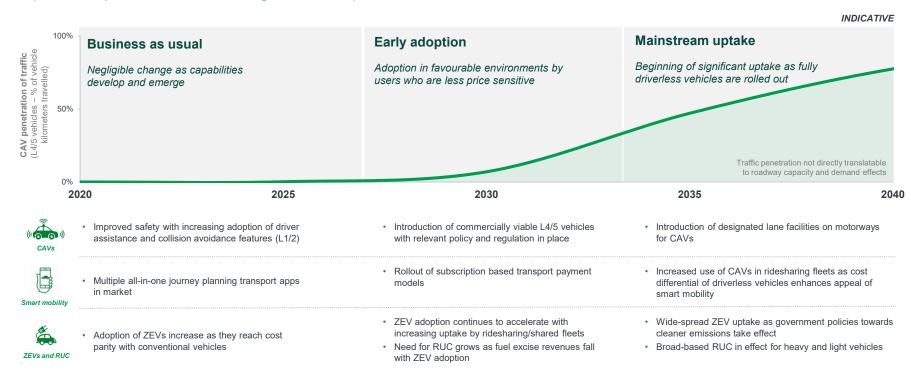
URBAN CONSOLIDATION CENTRES AND FREIGHT HUBS

Increased last-mile freight demand will drive new dedicated freight consolidation areas and restrictions on large vehicles in inner cities

REINFORCING EFFECTS OF MULTIPLE TRENDS WILL ACCELERATE THE TRANSITION

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A potential path towards an integrated transport future



FUTURE CHANGES POSITIVE FOR TRANSURBAN'S CUSTOMERS AND COMMUNITIES

Transurban



Improved safety

Increasing interconnection and automation removes human error, reducing accidents and congestion



New mobility options

CAVs have the potential to stimulate longer trips and can provide new mobility solutions for freight/delivery and for those otherwise unable to drive



Favourable economics

Use of ZEVs and rise in smart mobility could lead to lower travel costs



Improved infrastructure use

The introduction of platooning allows smaller headways and higher speeds for more efficient use of road space. Motorways set to benefit earlier with CAVdesignated lane operations

EXPLORATION OF NEW VALUE CREATION OPPORTUNITIES

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Investigate strategic growth options

- RUC trials (USA)
 - Awarded grant to run Virginia component of I-95 RUC phase 3 trials
 - Twelve month program, set to recruit 400 light vehicle participants
 - Part of USDOT's five year, USD95 million program¹
- Next-gen tolling back-office development



Develop internal capability

- Machine learning for traffic forecasting and dynamic pricing
- Video for traffic analytics and management
- LinktGO development



Build response to disruption

- CAV trials
 - Partially automated vehicle trials complete
 - Connected motorway applications in exploration
- · GPS tolling trials



Contribute to policy development

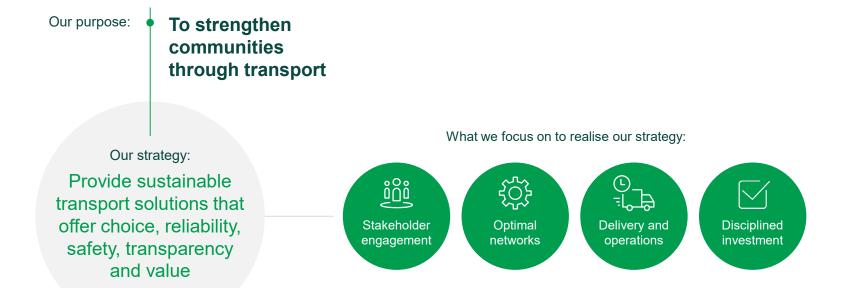
- Road Usage Study
- Partnership with Telstra on work zone safety systems
 - Remotely controlled cones
 - Connected PPE



See appendix for footnotes.

REFRESHED STRATEGY FOR AN INTEGRATED FUTURE







Deliver near-term priorities



Deliver committed projects



Maximise performance of operations



Enhance customer and community offerings

Positioning for future transport opportunities



Future evolution will make transport safer, more convenient and efficient



Future changes positive for Transurban's customers and communities



Monitor future developments and remain proactive in capturing new opportunities





WHO WE ARE AND WHAT WE DO



30-year infrastructure strategy



Research



Independent advice to government (automated and zero emissions vehicles)

OUR VALUES

Independence Influence Partnership Openness Innovation People

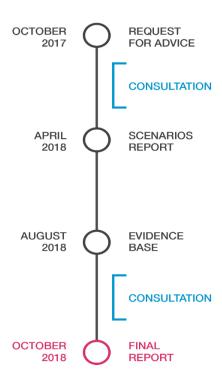
context of the study

The Victorian Government asked Infrastructure Victoria to provide advice on what infrastructure might be required:

- to enable operation of highly automated vehicles (AVs)
- in response to the ownership and market models that may emerge from the availability of highly automated vehicles
- for zero emission vehicles (ZEVs) as a high proportion of the Victorian fleet.

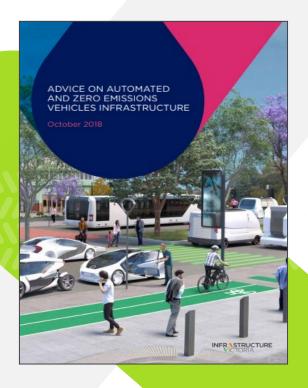


timeline









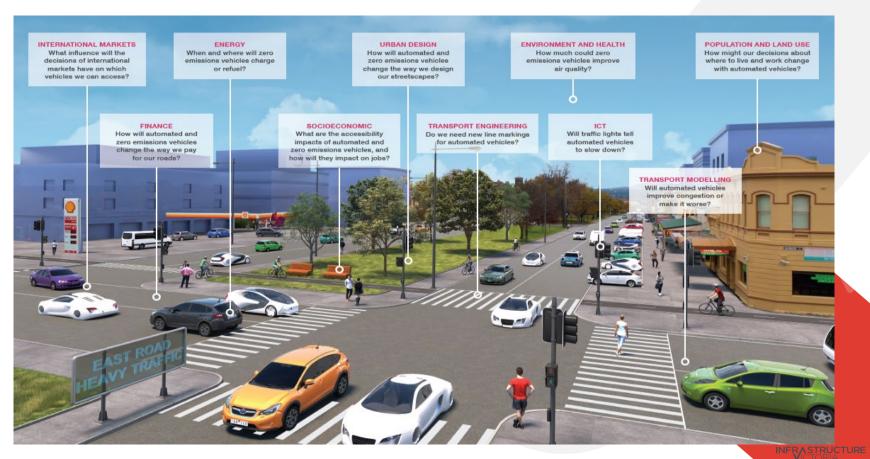


scenarios

Scenario	Year	Driving mode	Power source	Ownership/ market model
1. Electric Avenue	2046	Š	5	
2. Private Drive	2046	L	5	
3. Fleet Street	2046		5	•
4. Hydrogen Highway	2046	L	H	
5. Slow Lane	2046	LŠ	5 P	
6. High Speed	2031		5	·
7. Dead End	2046	Ľ		



evidence base



key themes

Convergence of the transport and energy sectors.

Convergence of the transport and ICT sectors.

Blurring of the distinction between 'public' and 'private' transport.



Advice:

17 RECOMMENDATIONS



Infrastructure Victoria has called on the Victorian Government to clear the way for the roll out of driverless and zero emissions vehicles to reap unprecedented benefits for the economy, community and environment.

Recommendations cover:

- Transport
- ICT infrastructure and data
- Energy
- Planning
- Waste
- Monitoring and coordination

'do now' transport recommendations

- Update Victoria's roads, including an audit of suitability for automated vehicles and evaluation of the impact of changing road network features (for example sign consistency, machine readability and placement; line quality, consistency and reflectivity).
- Rethink road space, including proactively increasing pick-up and drop-off areas in and around public transport stations, activity centers and destinations.
- Future-proof projects by incorporating real options to defer, stage, modify or cancel projects due to technology or demand change, review planned projects and seek low marginal cost opportunities that allow for future flexibility.

'do now' ICT recommendations

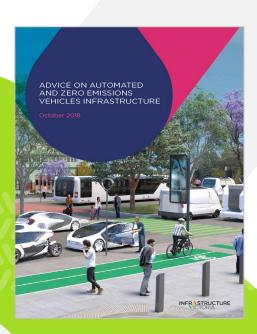
- Integrate on-demand and mobility as a service (including booking and payment systems) into the transport mix in preparation for automated vehicles.
- on need and demand, and monitor the market's delivery of coverage in these areas as automated vehicles are adopted.
- Expand the availability of open, real-time information on governmentowned transport system data and establish principles for data sharing between government and commercial transport service providers.

'do now' energy recommendations

- Ensure regulatory frameworks governing energy network investment are flexible enough to facilitate investment in the transmission and distribution networks at the right times and places to support the uptake of zero emission vehicles.
- Allow for incentives or other mechanisms (such as controlled charging services) to shift energy demand from peak periods.
- Develop design standards for public EV charging infrastructure and principles for interoperability between charging providers.

more information

- Advice on automated and zero emissions vehicles infrastructure contains all 17 recommendations, decision pathways, triggers and the evidence base
- A short animated video explaining our scenarios and advice is available on our website.
- A suite of before/after images that reimagine Victorian streets and neighbourhoods with automated and zero emissions vehicles is also online.
- View and download: www.infrastructurevictoria.com.au/AVadvice



website

infrastructurevictoria.com.au/AVadvice



email enquiries@infrastructurevictoria.com.au



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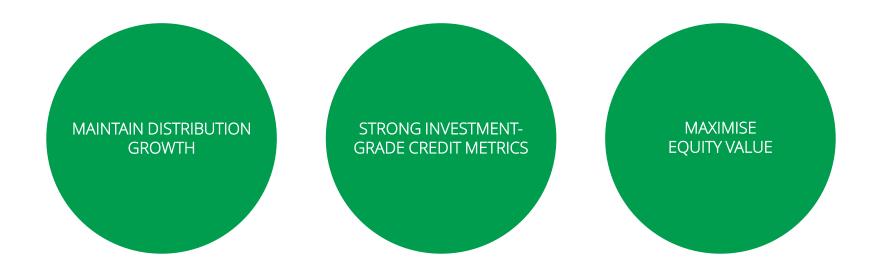


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CAPITAL STRATEGY

ADAM WATSON - CFO

CAPITAL STRATEGY – BALANCING DISTRIBUTION GROWTH WITH LONG-TERM VALUE CREATION



FUNDING STRATEGY



Maintain strong investment-grade credit metrics



- Maximise access to a broad range of debt capital markets
- Ratings agencies consulted throughout transactions to ensure outcomes are known prior to financial close
- · Corporate credit ratings:
 - S&P BBB+, Moody's Baa1, Fitch A-

Manage Group debt to balance cost and tenor



- Continue to target the largest long-term debt capital markets
- Shorter-term bank debt used to support delivery of development pipeline
- Funding decisions co-ordinated at Group level to minimise refinancing risks
- Weighted average maturity of 9.1 years¹ and average cost of 4.7%²

Maintain diversity of funding sources, manage risk



- Maximise funding optionality, thereby reducing reliance risk
- Allows the Group to source the most attractive terms at any given time
- 98% interest rate and currency hedged³

December 2018 Group debt

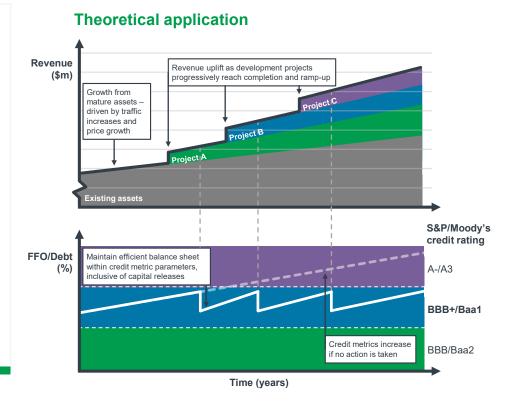




CAPITAL RELEASES

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- Transurban's business model provides scope for balance sheet optimisation as assets mature, given upfront equity funding of major developments
- As traffic ramps up, credit metrics improve due to increasing cash flow against a fixed debt balance
- Capital releases pre-agreed with governments and undertaken within credit metric parameters
- In the near term, capital releases allow for ongoing consistent distribution growth despite additional equity issued to support the development pipeline
- In the longer term, capital releases provide funding flexibility, with proceeds able to be used to:
 - Further enhance distributions
 - Fund development pipeline
 - Manage credit metrics



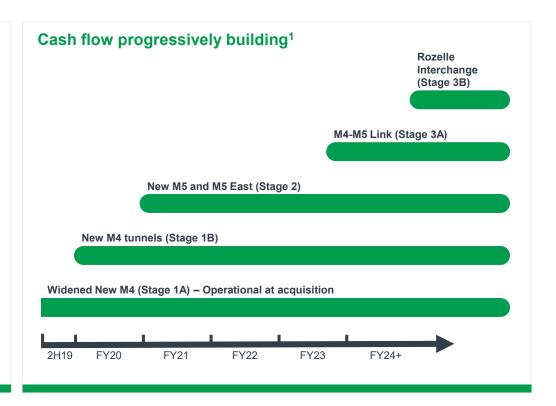
WESTCONNEX



Total acquisition price: \$9.3 billion (51% of WCX)

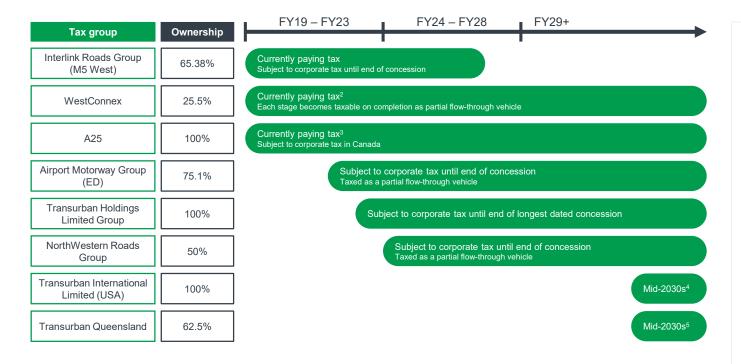
Transurban equity contribution: \$4.1 billion

- Acquisition funded with equity upfront given assets are in construction phase
- As construction completes and traffic ramps up, additional debt can be raised and distributed to WestConnex shareholders in the form of capital releases, which can be passed on to Transurban investors in the form of distributions
- Parameters enabling ability to release capital pre-agreed with NSW Government
- Refinancing strategy underpinned by target to maintain investment-grade credit metrics



FORECAST TAX PROFILE¹

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- Stapled structure results in Transurban's Australian corporate entities being subject to Australian corporate tax, and investors being subject to tax on trust distributions
- Capital intensity of Transurban's business leads to significant upfront and ongoing capital investment, resulting in large accounting and tax losses in early years of investment
- Refer to Tax Insight Session for further information

OPERATIONAL EFFICIENCY MAINTAINED DURING PERIOD OF PORTFOLIO GROWTH



Maximise performance of operations

- Scalable operating platform
 - Consolidation of maintenance providers
 - Tolling and back-office systems
 - Customer operations

Deliver committed projects

- · Operating costs for new assets
- · Maintenance provision for developments e.g. CityLink

Enhance customer and community offerings

- Customer product development in North America
- Linkt Assist
- Trip Compare and decision point signage

_=Transurban

PROJECT DELIVERY

TONY ADAMS – GROUP EXECUTIVE, PROJECT DELIVERY

DELIVERY STRATEGY FOCUSED ON PRUDENT RISK MANAGEMENT AND MINIMISING DISRUPTION



Stakeholder engagement

- Build community relationships with engagement from inception through to operation
- Ensure interest groups are engaged during all project phases

Active contract management

- Experienced Transurban teams working in partnership with major contractors
- Actively manage whole-of-project HSE, leveraging opportunity for continuous improvement

Minimal disruption

- Focus on minimising construction impact to community, operational assets and broader road networks
- Maintain access and amenity for impacted stakeholders throughout construction

TRANSURBAN APPROACH TO DELIVER DEVELOPMENT PIPELINE

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Experience in safely delivering complex projects

- Demonstrated capability in delivering development projects as infrastructure owner/operators
- Highly experienced project management teams with backgrounds spanning government, construction and consulting
- Safety-first culture embedded across Transurban and delivery partners

Effective risk management

- · Fixed-time, fixed-price contracts
- Commercial protections, including bank guarantees and liquidated damages to contain the impact of project completion date variability

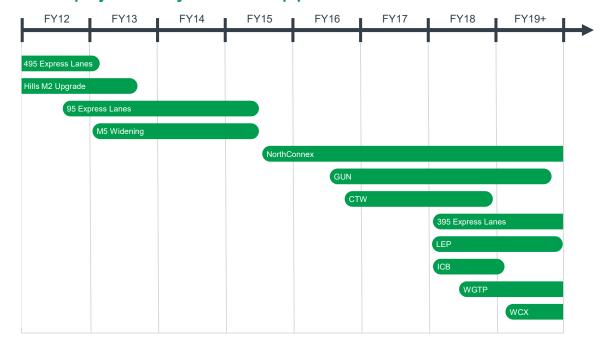
Project Delivery workforce¹

2013 69 **2019** 225





Recent project history and current pipeline¹

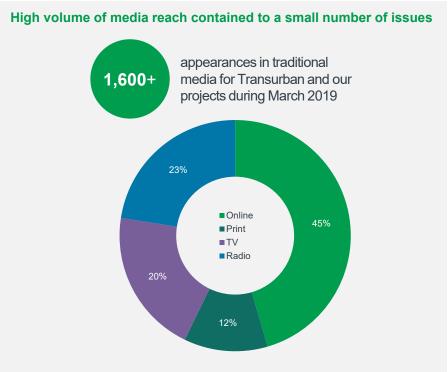


EXTERNAL ENVIRONMENT

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- Transport infrastructure is politically significant due to its broad economic and social impact
- This significance creates considerable public attention, amplified by traditional and social media
- High volume of media reach contained to a small number of issues





STAKEHOLDER MANAGEMENT APPROACH

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Experience in stakeholder engagement

- Appropriate resources in place to engage stakeholders and enhance outcomes where possible
- Focused on agenda of delivering projects to meet agreed objectives on time, budget, safety and quality with government partners and D&C contractors

Design involvement and influence

 Understanding the needs and ambitions of stakeholders allows Transurban to influence project design, creating support prior to construction

Construction methodology involvement, influence

 Transurban challenges methodologies to reduce impacts on the community and build long-term relationships

West Gate Tunnel Project



engagements with stakeholders in the last 12 months; greater than 50% proactive



Logan Enhancement Project

Community feedback shaped the design – changes include significant fauna connection improvements, and duplicating the Wembley Road bridge over the Logan Motorway



NorthConnex

Regular community meetings throughout construction specific to areas of impact, providing opportunities for two-way communication



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WESTCONNEX

ANDREW HEAD – CEO, WESTCONNEX

WESTCONNEX OVERVIEW¹

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New M4 (Stage 1)

- Widened New M4 (M4 West), existing M4 West motorway widened to four lanes in each direction from Parramatta to Homebush (7.5km)
- New M4 tunnels (M4 East), new 6.5km motorway section of three lanes in each direction. This includes 5.5km of new twin tunnels and associated surface works

M5 (Stage 2)

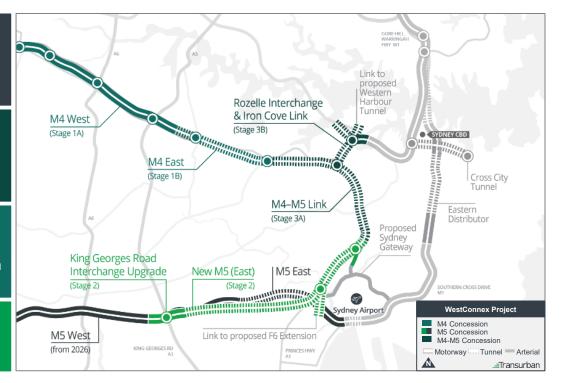
- New M5 motorway, 11km motorway with 9km twin tunnels, provision for connection with future F6 Extension
- Transfer existing M5 East motorway between King Georges Road and General Holmes Drive, after opening of New M5

M4-M5 (Stage 3)

- M4-M5 Link, new 7.5km twin tunnels of four lanes connecting to the New M5 (East), and stub connections for future Rozelle Interchange and Iron Cove Link
- Rozelle Interchange, new interchange connecting M4-M5 Link to the surface and the Anzac Bridge, provision for future connectivity to proposed Western Harbour Tunnel

M5 West

Existing motorway of three lanes in each direction stretching between the M5
East and Westlink M7 to form part of the WestConnex M5 concession from
December 2026, once the existing concession expires



WELL-POSITIONED TO FACILITATE SYDNEY'S GROWTH



Vehicle trips expected to use WestConnex¹



Population growth²



Sydney population expected to live within 5km of WestConnex

Freight task³



Freight task in Greater Sydney area projected to grow from 194 million tonnes in 2016, to 288 million tonnes in 2036

Business districts and employment

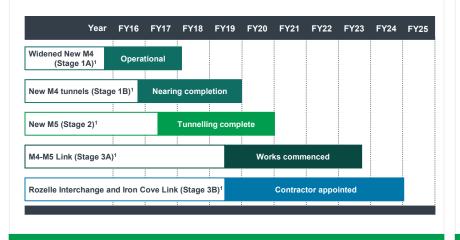
Key industrial areas adjacent to or near the WestConnex corridor, including Botany/ Banksmeadow, Silverwater, Lidcombe, Homebush and Eastern Creek

DELIVERY AND INTEGRATION EFFORTS IN PROGRESS

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Construction progress

- New M4 tunnels commissioning underway
- New M5 progressing mechanical and electrical fit-out
- M4-M5 Link tunneling works commenced, five road headers
- Delivery of Rozelle Interchange underway, managed by RMS



Integration efforts First 6 PHASE 1 - CORPORATE months Business review completed, with five year business plan and financial budgets approved by WestConnex Board Systems alignment and restructure of WestConnex business completed Co-location with NSW business at 1 Chifley Square Streamlined processes and corporate systems We are PHASE 2 - TECHNOLGY AND CUSTOMERS here · Implementation of GLIDe progressing, on track to replace existing tolling systems Transurban's Linkt to become the preferred retailer for 6-12 months WestConnex PHASE 3 - O&M Insource road operations and asset management

Establish Program Control Group to drive optimum delivery processes



Panel of internal experts established to ensure learnings across Transurban's delivery portfolio are shared with WestConnex and other delivery projects

Panel is chaired by Tony Adams, Group Executive Project Delivery and comprises an experienced group of internal experts

Consolidate and insource operations to realise synergies



Multiple opportunities to realise operation synergies by leveraging existing Transurban resources

- More efficient operations through insourcing O&M and asset management
- Transition to Transurban back-office systems to enhance revenue capture and reduce costs

Investigate future tolling technologies to reduce lifecycle costs

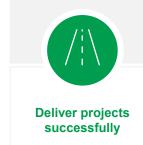


Tag-based tolling superseded by next-generation video tolling technologies.

Presents an opportunity for WestConnex to migrate, driving savings by reducing major maintenance costs

PRIORITIES GOING FORWARD







Build strong partnerships



Ensure operational excellence



Enhance customer experience



Drive sustainability outcomes



Maximise value for investors

<u>___</u>Transurban

NORTH AMERICA DEVELOPMENT

JENNIFER AUMENT – PRESIDENT NORTH AMERICA

FOCUSED EXECUTION AND SUSTAINABLE GROWTH

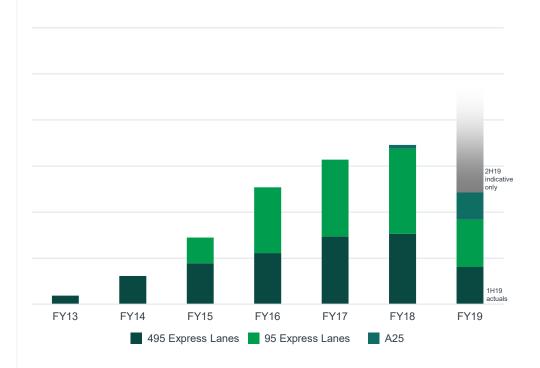


North America is considered an emerging market for global infrastructure investors

Transurban is focused on growing incrementally:

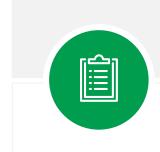
- Sustainable business model
- Strong and growing customer base
- Value for clients, communities and securityholders
- Transurban has achieved 24% market share of greenfield road, rail and airport P3 projects closed since 2016¹

North America revenue^{2,3}



DRIVING LONG-TERM GROWTH THROUGH DISCIPLINE





Disciplined evaluation of development opportunities



Engagement with clients, community and industry



Proactive approach to opportunities



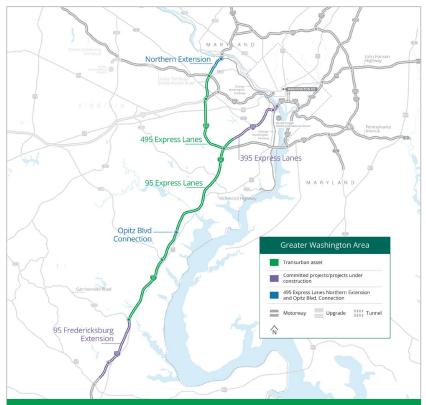
Local expertise and experience



Customer focus

EXPANDING GWA NETWORK

_Transurban





495 EXPRESS LANES **2012 | 22 km**



95 EXPRESS LANES **2014 | 50 km**



395 EXPRESS LANES **2019 | 13 km**



FREDERICKSBURG EXTENSION 2022 | 16km



OPITZ BOULEVARD
FUTURE NEW CONNECTION



495 NORTHERN EXTENSION **FUTURE | 3.2 km**

DEMONSTRATING OPERATIONAL EXPERTISE



Dynamic operational responses



495 oil tanker shutdown

- Fuel tanker spill in general purpose lanes resulting in widespread congestion
- Transurban-led lane diversions and real-time customer communications

Customer-focused solutions



First-time forgiveness

Multiple ways to pay

· Program includes self-

· Model for new Virginia

legislation governing

unpaid toll enforcement

imposed court-fee cap

missed tolls

Working with government and community



Occoquan capacity

- Listening to client and community needs to find mutually aligned solutions
- USD1 billion investment to reduce congestion and improve connectivity on 95 and 495

Environmental outcomes informing operations



A25 – sustainable snow removal

- Snow clearing of bridge without disposal in river
- Abrasive spreading natural beet juice compound reducing reliance on salt

Customer product development



Mobile tolling

- Mobile tolling app development underway in GWA and Montreal
- Provides infrequent users additional payment options

ENGAGEMENT ENABLES OPPORTUNITY





Amazon HQ2

Amazon to develop a second headquarter in 395 corridor

Transurban brought forward payments to VDOT which enabled infrastructure improvements in the 395 corridor, helping to secure Amazon's selection of Crystal City as location for second headquarters



495 Northern Extension

Addressing one of the region's worst multistate bottlenecks

3.2km extension to Maryland border with new connections to major commuter routes. Demonstrates incremental network growth, supporting long-term transportation needs of the region



Electric Vehicles

Helping grow Quebec's leadership in sustainable transportation

The Quebec Ministry of Transport, in partnership with the A25 team, is testing a program that allows free travel for electric vehicles on toll roads, including A25 – supporting the shift from conventional vehicles to ZEVs¹



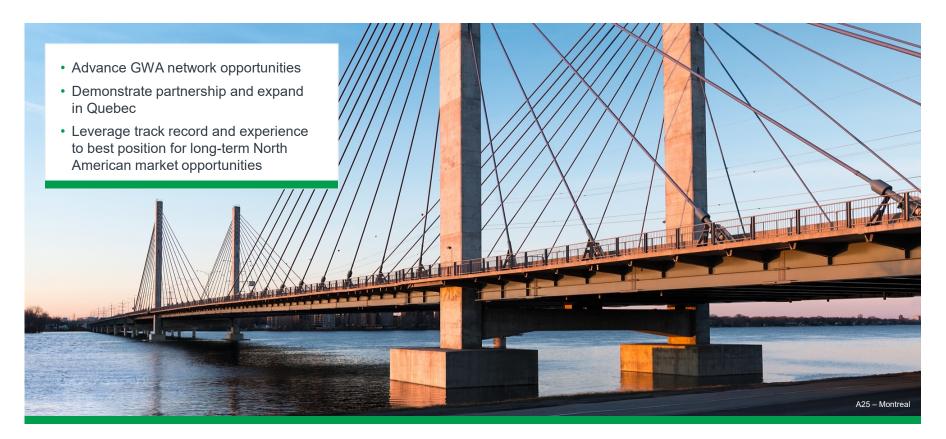
Marine Base Quantico

Access to major military and federal campus in highgrowth Prince William County

Fredericksburg Extension will improve access to 12,000 residents of the marine base, FBI Academy and Drug Enforcement Agency – allowing Transurban to deliver valuable public improvements on behalf of the Virginian Government

NORTH AMERICAN OUTLOOK

_Transurban





SUPPLEMENTARY INFORMATION

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TAX INSIGHT SESSION

SHASHI SIVAYOGANATHAN – PRINCIPAL TAX ADVISOR

Purpose of staple

- Stapled structures are commonly used in capital intensive businesses like infrastructure and property
- Large initial and ongoing capital investment and debt funding, leads to accounting losses during the early years of the project due to amortisation.
 These accounting losses prevent the payment of dividends to shareholders. Stapled structures allow the payment of distributions to securityholders during this time.
- Stapled structures ensure the Australian Taxation Office (ATO) collects tax, at the investor level, despite tax losses being generated in the early years of a project
- The majority of Transurban's Australian operating assets are structured as a stapled Company/Trading Trust (which operates the road and collects tolls Operating Entity) and an Asset Trust (which operates as a passive investment vehicle Asset Trust)
- Each Asset Trust is classified as a flow-through trust, the distributions from which are taxable in the hands of investors

Transurban Group staple

- Transurban Group comprises of three separate legal entities THL, THT and TIL
- Each triple stapled security comprises one share in THL, one unit in THT and one share in TIL, none of which can be traded separately to the other

TRANSURBAN GROUP SECURITYHOLDERS

TRADED TOGETHER AS A TRIPLE STAPLED SECURITY

TRANSURBAN HOLDINGS LIMITED (THL)

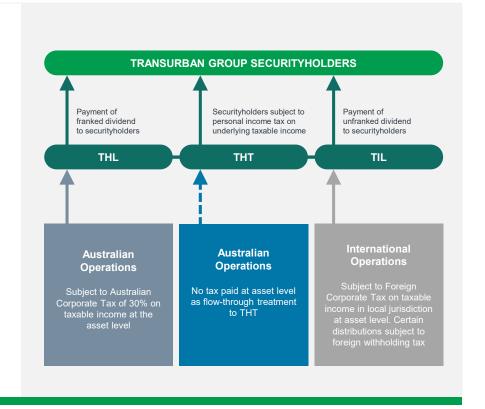
TRANSURBAN HOLDING TRUST (THT)

TRANSURBAN INTERNATIONAL LIMITED (TIL)



Corporate structure

- THL is an Australian resident company that operates as the parent company of the Transurban Group for financial reporting purposes.
 THL is subject to Australian income tax at 30 percent on its taxable income
- THT is an Australian resident unit trust that qualifies as a managed investment trust. THT operates as a flow-through trust for tax purposes resulting in THT's income being subject to tax at the investor level at their respective tax rates
- TIL is an Australian resident company that acts as the holding company for Transurban's operations in North America. Assets held under TIL are subject to foreign income tax in their respective jurisdictions and withholding tax on certain distributions
- In addition to corporate taxes paid by THL and TIL, Transurban estimates that approximately \$1.3 billion in taxes have been paid by investors since 2002 on distributions paid to date

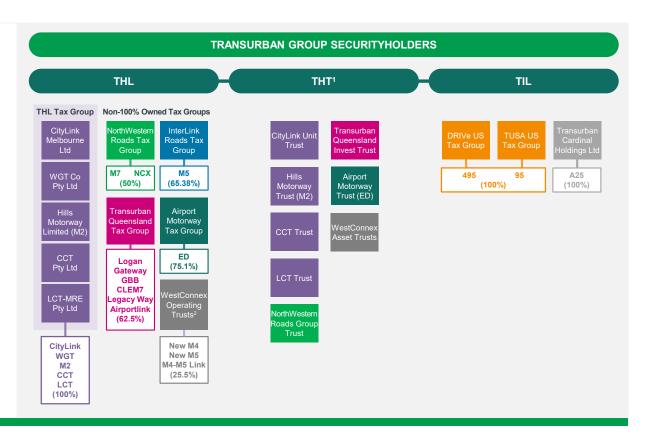


TAX TREATMENT OF STAPLE

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Asset structure

- Each asset within the Transurban Group has its own individual structure
- Some of the assets are structured as corporate entities – M5, GBB, Clem7, Legacy Way and foreign assets. Other assets are structured as stapled entities
- The portion of taxable income flowing through the Operating Entity or Asset Trust (where applicable) varies between assets and can change based on intragroup transactions, traffic volume, interest rates and structure
- Different holding structures causes tax being paid at different levels of the structure, by different tax groups and at different times



TAX PROFILES – 100% OWNED

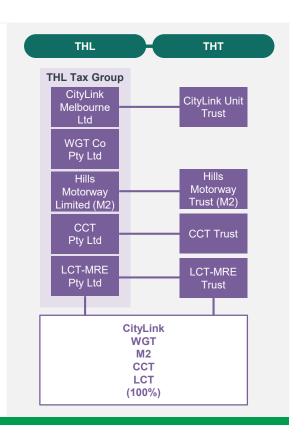
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THL tax consolidated group

- The THL tax consolidated group comprises Transurban Group's 100% owned Australian assets
- THL is the head company of the tax consolidated group comprising its wholly-owned Australian entities
- · Each asset owned by the THL tax consolidated group operates through a stapled structure
- Taxable income derived by each Operating Entity is subject to the 30% corporate tax rate consolidated at THL; and
- Tax paid by THL gives rise to franking credits which are then passed to securityholders as franked dividends

THT tax treatment

- · Taxable income derived by each Asset Trust flows through to THT
- THT, as a flow-through trust for tax purposes, does not pay income tax itself
- Investors pay tax on trust distributions received based on their respective tax rates
- Transurban publishes an annual Tax Statement Guide advising investors on how distributions should be disclosed in their tax return



Non-100% owned tax groups

- Australian assets that are not wholly-owned by Transurban Group have their own respective tax groups and a different tax profile to Transurban Group
- The head company of each non-100% owned tax group is subject to tax at the 30% corporate tax rate on its Australian taxable income
- Distributions made by these tax groups to THL by the Operating Entity are generally fully franked, or treated as flow-through distributions if paid to THT by the relevant Asset Trust
- If fully franked distributions are received by THL they are generally not subject to further tax, and franking credits can be distributed to securityholders

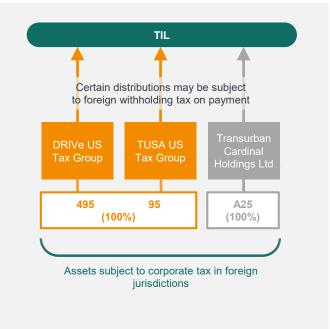


TAX PROFILES – TIL



North America tax groups

- The TIL tax consolidated group comprises Transurban Group's 100% owned North American assets
- Each asset owned by TIL is subject to tax in its foreign jurisdiction at the local corporate tax rate:
 - A25 is subject to Canadian tax from acquisition; and
 - 495/95 are forecast to pay US tax in mid-2030s
- Withholding tax may be levied on certain distributions paid to TIL from its whollyowned subsidiary entities
- All distributions received by TIL from its wholly-owned North American entities are not subject to further tax in Australia

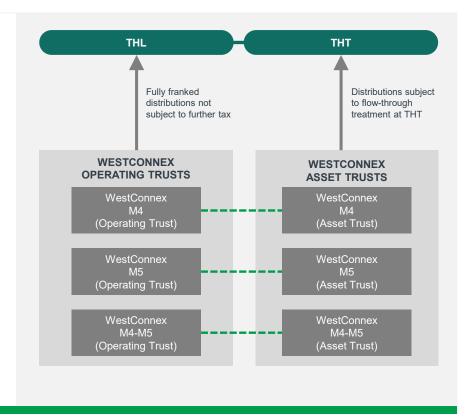


TAX PROFILES – WESTCONNEX

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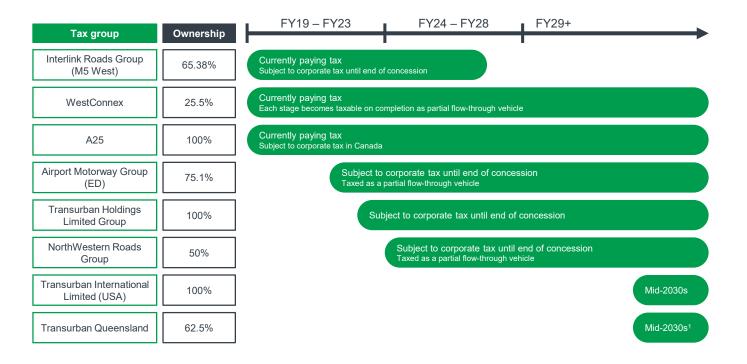
WestConnex tax treatment

- As a legacy holding structure of Sydney Motorway Corporation, each asset of WestConnex is held through a staple arrangement between an Operating Trust and an Asset Trust
- The WestConnex operating trusts are not consolidated for Australian income tax purposes and are therefore subject to tax at the 30% corporate tax rate on an individual basis for as long as the NSW Government retains a 20% or greater ownership in WestConnex. These trading trusts will revert to being flow-through if the Government owns less than a 20% interest
- Each stage is forecast to pay tax on the commencement of tolling activities, with Stage 1 already subject to corporate tax in FY19



FORECAST TAX PROFILE

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FACTORS – TAX FORECASTING



Tax paid by each tax group is subject to a number of variables

- New development projects new projects generate additional tax deductible costs, including tax depreciation, costs of transferring assets and borrowing costs
- Timing differences between accounting and tax treatment of depreciation and amortisation tax depreciation on capital works based on a statutory effective life of 40 years whereas the effective life of concession assets may be shorter
- Intragroup charges and arrangements charges paid by the Operating Entity to the Asset Trust for the use of assets and funds (i.e. rent and interest) reduces tax paid. These charges form the basis of the taxable distributions from THT
- Traffic volume changes in traffic volume will either increase or reduce taxable income
- Interest rates and gearing levels as interest is a tax deductible expense, higher borrowing costs reduce taxable income

Factors affecting near term taxable distributions

- Taxes paid by each tax group will be used to frank dividends from THL
- All other taxable income is expected to be paid out of THT as a trust distribution
- THL and TIL are not expected to pay unfranked dividends
- The split of taxable income between Operating Entity and Asset Trust is dependent on factors specific to the structure but is guided by ATO accepted principles. These principles and examples are provided by the ATO in LCR 2015/15

TAX GOVERNANCE AND POLICY¹



Transurban Group's approach to tax

- Transurban Group adopts tax positions that comply with tax laws, allow for efficient business activities and utilise structures that maximise value for investors
- Transurban Group continues to foster its longstanding and co-operative relationship with the ATO and other Revenue Authorities in Australia and abroad, by undertaking self-assessment activities with a view to be well positioned to meet the ATO or other Revenue Authorities expectations
- Transurban Group recognises the inherent value for investors resulting from compliance with all tax laws by maximizing operational efficiencies, reducing the risk of penalties and maintaining a reputation as a compliant and transparent corporate taxpayer. A Tax Transparency Report is published annually by Transurban

Recent tax policy changes

- Transurban Group continuously monitors all developments in tax policy which may affect Transurban Group's tax positions
- Recent integrity measures introduced for stapled structures in Treasury Laws Amendment (Making Sure Investors Pay Their Fair Share of Tax in Australian and Other Measures) Act 2019 will have application to Transurban. However, Transurban believes its structures are compliant with the new law
- The introduction of these integrity measures will not impact Transurban's distributions or its tax paid. Transurban is currently assessing the impact of the new rules on the rate of withholding for certain distributions paid to non-resident investor for distributions after 1 July 2019

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TRAFFIC INSIGHT SESSION

DARRYN PATERSON – GENERAL MANAGER NETWORK STRATEGY AND TRAFFIC ANALYSIS

INTERNAL EXPERTISE IN TRAFFIC FORECASTING



Team experience and strengths

- In-house multi-disciplinary team of 35+ specialists, covering:
 - Strategic modelling
 - Land use and macroeconomics
 - Econometrics and analytics
 - Traffic and operational modelling
 - Freight
- External support from specialist consultants
- · Independent inputs and auditors

Forecasting approach

Methodology selection driven by time horizon and purpose of assessment:

- Transurban's strategic models used to develop independent valuations from long term forecasts
- Trend, econometrics and artificial intelligence models used for near term forecasts of assets
- Operational models use detailed daily and time-period data to assess and manage current asset performance

Forecasting data

- Key forms of traffic data collected and used by Transurban encompasses:
 - Region wide and asset specific traffic and vehicle class data
 - TomTom information providing travel time, speed and reliability data for all facilities
 - Independent land use and macroeconomic data for national and regional impacts
- Level of aggregation aligns with the form of the tools

DATA RELEVANCE AND LEVEL OF AGGREGATION KEY TO ACCURACY

as seasonality

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"noise" associated with disaggregations

operational planning

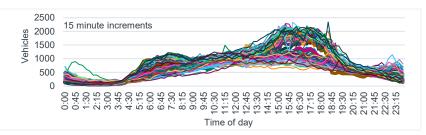
NETWORK PERFORMANCE MANAGED USING DETAILED DATA

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Detailed traffic count data

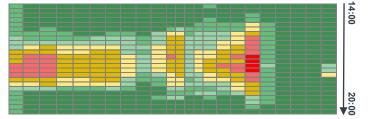
Detailed traffic count data can be obtained from a range of sources, and segmented in various ways; such as by time period and vehicle class

Granular traffic data provides one perspective of traffic performance that can be used to guide operational planning



Travel speeds, delay, and queuing

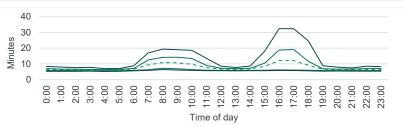
When used in conjunction with other available sources of data (e.g. travel time, and speeds) patterns and impacts can be more readily identified, and options developed to mitigate customer impacts



Travel time variability

The inherent/natural variability of both the traffic and travel time related data reflects the natural variations in traffic conditions, customer timing, accidents, weather, etc.

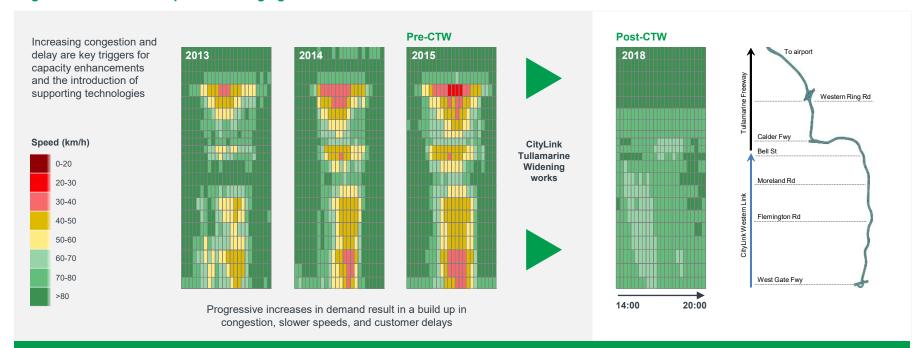
Variability highlights the limitations associated with using detailed data for long term forecasts and the importance of context in establishing meaningful conclusions



TIME BASED ASSESSMENTS HIGHLIGHT TRENDS AND SUPPORT PLANNING

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Data analytics provides the basis for identifying localised issues and monitoring evolution over time, allowing for targeted interventions to prevent emerging issues



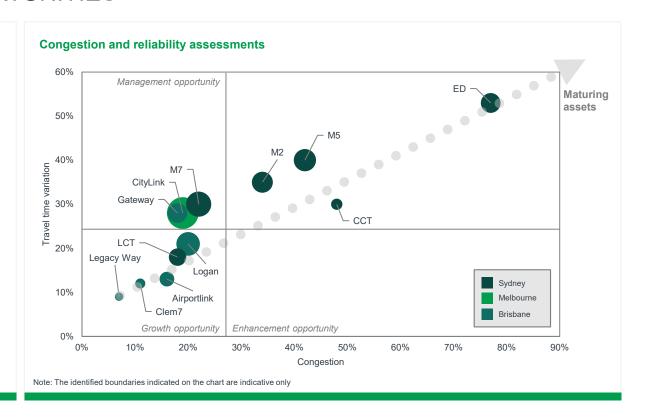
COMPARATIVE ASSESSMENTS HIGHLIGHT THE EVOLUTION OF ASSETS AND OPPORTUNITIES

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Using aggregate annual data to assess, and understand relative asset performance provides opportunity to compare across the portfolio

- Opportunities and focus areas regarding demand and supply
- · Potential learnings across the portfolio
- Natural evolution of assets as they move from growth to maturity

Collectively these guide intervention strategies and a proactive approach to the management and enhancement of the facilities to continually improve performance



LONG TERM FORECASTING USING STRATEGIC TRAFFIC MODELS

Strategic traffic models

- Approach founded on proven methodologies developed over 40+ years
- Include roadway and transit networks, population and employment, and economic data to estimate expected demand
- Mathematical equations used to represent travelers decision making process of: "why", "when", "where", and "how" to make the trip, and "what" route to follow to complete the trip
- Results for choices combined so that aggregate impacts of roadway vehicle volumes on average travel times can be determined
- Capture fundamental relationships between traffic demand and the key drivers (population, employment, households, wealth, etc.)
- Explain the interaction between residential areas, employment centres, and other trip generators
- Simulate dynamics of the future land use and network development and any potential shifts from existing conditions
- Only forecasting tool to consider roadway capacity explicitly
- Provide information on traffic patterns and congestion levels for project and wider network (competing facilities, feeder roads, capture area, patterns, etc.)
- Segments driver population based on socio-economic background, explains decision making and measures sensitivities

KEY FACTORS INFLUENCING LONG TERM FORECASTS



Transurban strategic models are based on a conventional four step model, which is used to capture both demand and supply, reflecting the relationship between traffic demand and the key drivers of population, employment, households, and wealth

Land use and demographics

Land use and demographics represent fundamental aspects of forecasting, which define the overall level of demand in the network and the relative patterns of usage across the city

Base land use and socio-demographic information has been sourced from Deloitte Access Economics (DAE) in order to ensure the independence and robustness of the information

Information has been validated by the in-house Land Use team, and then supplemented with a range of alternative scenarios

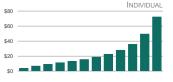


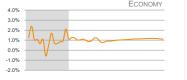


Wealth and macroeconomics

Economic information has been developed for both Individuals and the broader economy to establish key characteristics associated with wealth (influencing individuals ability to pay tolls), and the broader economy (dictating employment and freight related activity)

This has been sourced from DAE and integrated into the calibration of the models





Networks

Major network changes can have significant impacts on traffic. These are sourced from available information (such as government planning documents) and examined to establish the timing and materiality of any impacts due to changing congestion levels and drivers of route choice decisions

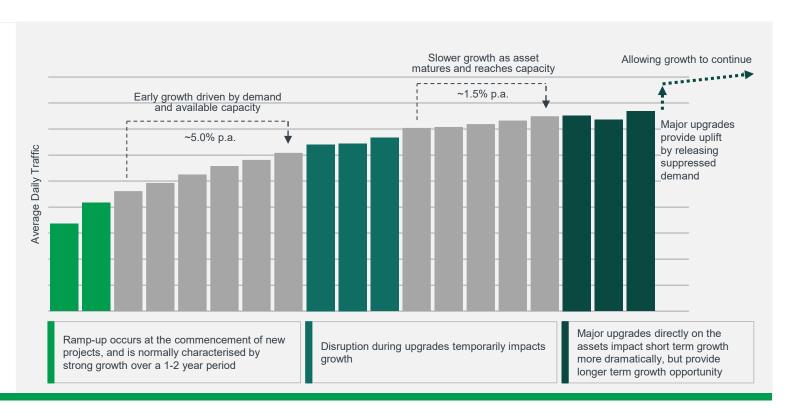
ID	Project	Description
1	Western Harbour Tunnel	Tunnel from the end of WestConnex to Gore Hill Fay
2	Beaches Link-Long	Tunnel bypassing Military Rd and connecting Ernest St with Condamine St
3	F6 Short	4 Lanes from MS to Rockdale
4	F6 Long	4 Lanes from Rockdale to Loftus
5	Prospect Hwy	New Link
7	Moorebank Av.	6 Israes from Newbridge Rd to MS (Moorebank Intermodal Preight Terminal)
ā	Moorebank Av/Heathcole Rd Newbridge Rd	Intersection upgrade (Moorebank Intermodal Freight Terminal)
9	King Georges Rd	Completion of 6 lanex for remaining sections including grade separation at Hillcrest Av.
10	King Georges Rd	Canterbury Rd and Punchbowl Rd grade separations
11	Proposed WestMetro	Additional metro line running between Sydney CBD and Parramatta CBD.



FORECASTING ASSET LIFECYCLE

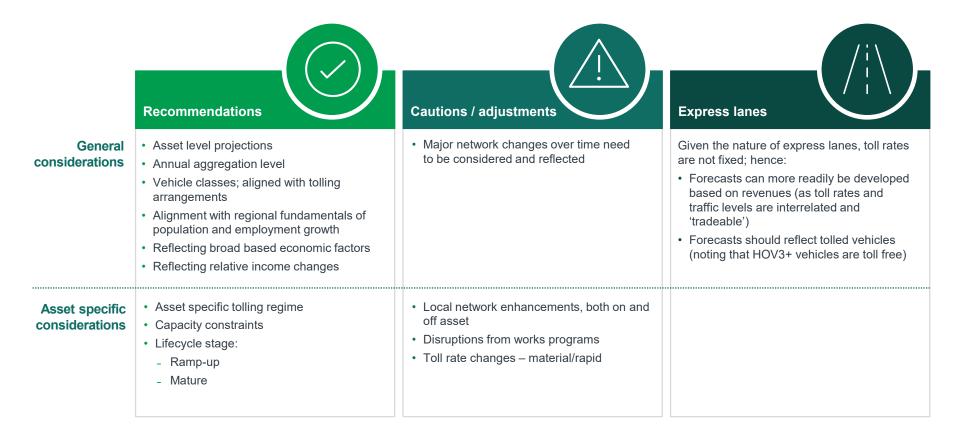
Assets evolve over time as external factors change

Lifecycle is influenced by drivers familiarity with the asset, corridor and city fundamentals, changing conditions (such as tolls and enhancements), and localised constraints (such as capacity)



KEY CONSIDERATIONS IN FORECASTS





FOOTNOTES

STRATEGY AND FUTURE OUTLOOK



Slide 9

- 1. Project completion dates shown are approximations and are subject to final schedules. The government completion estimate in any given jurisdiction is still the most appropriate estimate for media reporting and commentary. Estimated spend reflects Transurban's proportion of the total project cost, net of government contribution at time of announcement.
- 2. Represents Transurban's projected proportional capex contribution, net of State Works Contribution, to completion of WestConnex.
- 3. WGTP cost to Transurban of \$4.0 billion of the total \$5.5 billion WGTP D&C and associated costs (inclusive of Webb Dock Access and Monash Freeway Upgrade).
- 4. Transurban's offer also includes an additional payment to VDOT of USD45 million at financial close and USD232 million at service commencement in lieu of forecasted toll revenue sharing commitments under the current concession agreement.
- 5. Development framework agreed with VDOT.

Slide 12

- 1. United Nations, World Urbanization Prospects: The 2018 Revision, custom data acquired via website.
- 2. McKinsey Global Institute 2017 Bridging infrastructure gaps has the world made progress?
- 3. Trading Economics 2019 "Country List Government Debt to GDP G20" (Accessed April 2019).
- 4. International Monetary Fund 2014 Trends in public investment.

Slide 14

- 1. BloombergNEF 2019 BNEF Summit New York Innovation Forum.
- 2. Disengagements are deactivation of autonomous mode when a failure of the autonomous technology is detected or when the safe operation of the vehicle requires the human test driver to disengage and take manual control of the vehicle.
- 3. BloombergNEF 2019 Global Electrified Transport Market Outlook 1Q 2019.
- 4. University of California (2018) Daniel Sperling and Austin Brown; transit data from APTA, taxi data from US Census, projections from Schaller Consulting, 2018.
- 5. BloombergNEF 2019 Governments brace for imminent drop in fuel tax revenue.

Slide 18

1. Five year, USD95 million Surface Transportation Funding Alternative grant program.

CAPITAL STRATEGY



Slide 38

- 1. Calculated using proportional drawn debt at 31 December 2018.
- 2. AUD debt only, calculated using proportional drawn debt exclusive of issued letters of credit.
- 3. At 31 December 2018. A total of USD967 million and CAD650 million of corporate debt is not swapped to AUD, this debt forms part of the Group's net investment hedge relating to the US and Canadian entities respectively.
- 4. CAD, CHF, EUR, NOK and USD debt converted at the hedged rate where cross currency swaps are in place. USD debt is converted at the spot exchange rate (0.7060 at 31 December 2018) where no cross currency swaps are in place. CAD debt is converted at the spot exchange rate (0.9623 at 31 December 2018) where no cross currency swaps are in place. Proportional drawn debt inclusive of issued letters of credit.

Slide 40

1. Project completion dates shown are approximations and are subject to final schedules. The NSW Government completion estimate is still the most appropriate estimate for media reporting and commentary.

Slide 41

- 1. Effective tax rates may differ to the corporate tax rate due to a number of items, including timing differences in accounting vs. tax depreciation and amortisation, intragroup funding arrangements and asset holding structure.
- 2. WestConnex to convert to flow-through taxation entity in the event of a NSW Government sell-down.
- 3. Certain distributions made by the A25 are subject to withholding tax on payment.
- 4. Certain distributions made by US assets are subject to withholding tax on payment. US assets subject to tax in United States of America.
- 5. Taxed as a partial flow-through vehicle.

PROJECT DELIVERY

Slide 45

1. As at 30 June 2013 and 31 March 2019. Includes employees and contingent workers.

Slide 46

1. Approximate project construction timeframes. WestConnex shown from acquisition date.

WESTCONNEX



Slide 50

1. Map is for illustrative purposes only and is not indicative of distance, proximity or scale.

Slide 51

- 1. Map is for illustrative purposes only and is not indicative of distance, proximity or scale.
- 2. In 2031, based on Deloitte Access Economics estimates and Transurban's own internal estimates and assessments. Expectations relating to population and employment growth are based on a number of assumptions including fertility and mortality rates, overseas and interstate migration, land use, the form and timing of government planning and infrastructure policies, demographic trends and macroeconomic factors and there can be no assurance that these projections are accurate and actual outcomes may differ materially from such projections because events and actual circumstances frequently do not occur as projected.
- 3. TfNSW Freight and Ports Plan 2018 2023, September 2018.

Slide 52

1. Project completion dates shown are approximations and are subject to final schedules. The government completion estimate in any given jurisdiction is still the most appropriate estimate for media reporting and commentary.

NORTH AMERICA DEVELOPMENT

Slide 56

- 1. Inframation data: https://inframationnews.com/deals.
- 2. FY19 bar represents 1H19 North America revenue only. 2H19 revenue is shown for indicative purposes only and should not be considered as a Transurban forecast.
- 3. Transurban reached financial close on acquiring A25 on 5 June 2018.

Slide 60

1. Program allowing free travel for electric vehicles on A25 commenced prior to Transurban acquiring A25.

TAX INSIGHT SESSION



Slide 66

- 1. There are no tax groups under THT. Each sub-trust is treated as a flow-through trust.
- 2. WestConnex operating entities are operating trusts and are not part of a tax consolidated group.

Slide 68

1. InterLink Roads is a stand-alone entity.

Slide 71

1. Taxed as a partial flow-through vehicle.

Slide 73

1. For more information on Transurban Group's approach to tax, see Transurban Group's FY17 Tax Transparency Report: https://www.transurban.com/investor-centre/distributions-and-tax/tax-profile.

GLOSSARY

GLOSSARY

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TERM	DEFINITION	
1H/2H	First or second half of a financial year	
95	95 Express Lanes	
495	495 Express Lanes	
A25	A25 toll road	
ADT	Average Daily Traffic. ADT is calculated by dividing the total number of trips on each asset (transactions on CityLink) by the number of days in the period	
ABN	Australian Business Number	
ACN	Australian Company Number	
AFSL	Australian Financial Services Licence	
Airportlink	AirportlinkM7	
AMTN	Australian Medium Term Note	
ARSN	Australian Registered Scheme Number	
ATO	Australian Taxation Office	
AUD	Australian Dollars	
CAD	Canadian Dollars	
CAV	Connected and Automated Vehicles	
ССТ	Cross City Tunnel	
CHF	Swiss Franc	
CTW	CityLink Tulla Widening	
DAE	Deloitte Access Economics	
D&C	Design and Construct	
DOT	Department of Transport	
DRIVe	Direct Road Investment Vehicle. Transurban entity that holds an interest in the 495 and 95 Express Lanes	
ED	Eastern Distributor	
EUR	Euros	
FFO	Funds From Operation	
FY	Financial year 1 July to 30 June	

TERM	DEFINITION
Gateway	Gateway Motorway
GBB	Go Between Bridge
GDP	Gross Domestic Product
GFC	Global Financial Crisis
GLIDe	Transurban's tolling back-office system
GUN	Gateway Upgrade North
GWA	Greater Washington Area meaning northern Virginia, Washington D.C., areas of Maryland and the surrounding metropolitan area
GPS	Global Positioning System
HCV	Heavy Commercial Vehicle
нот	High Occupancy Toll
HSE	Health, Safety and Environment
ICB	Inner City Bypass
L1/2 CAV	Driver Assisted or Partial Automation Connected and Automated Vehicles
L4/5 CAV	High Automation or Full Automation Connected and Automated Vehicles
LCR	Law Companion Ruling
LCT	Lane Cove Tunnel
LCV	Light Commercial Vehicle
LEP	Logan Enhancement Project
LGW	Legacy Way
Linkt	Transurban's retail tolling brand
Linkt Assist	Specialist team dedicated to helping customers in social and financial difficulty
LinktGO	LinktGO is a mobile phone application which uses GPS to track a customer's trip. The app is perfect for occasional toll road users as the customer does not require a tag
Logan	Logan Motorway
M2	Hills M2
M5	M5 West motorway

GLOSSARY <u>=</u>Transurban

TERM	DEFINITION	
M7	Westlink M7	
MRE	Military Road E-Ramp	
NCX	NorthConnex	
NOK	Norwegian Krone	
NSW	New South Wales	
NWRG	NorthWestern Roads Group	
O&M	Operations and Maintenance	
P3	Public Private Partnership	
PPE	Personal Protective Equipment	
QLD	Queensland	
RMS	Roads and Maritime Services is the New South Wales government agency responsible for transport infrastructure	
RUC	Road User Charging	
S&P	Standard and Poor's	
State Works Contribution	The capital contribution for WestConnex M4-M5 Link to be provided by RMS. This is separate to the NSW Government's 49% share of the equity funding commitment for M4-M5.	
THL	Transurban Holdings Limited	
THT	Transurban Holding Trust	
TIL	Transurban International Limited	
TQ	Transurban Queensland. Name change post acquisition of Queensland Motorways (QM). Transurban has a 62.5% interest in TQ	
TfNSW	Transport for New South Wales	
USD	US Dollars	
USDOT	United States Department of Transportation	
V2X	Vehicle to Everything	
VDOT	Virginia Department of Transportation	
VIC	Victoria	
WCX	WestConnex	
WGTP	West Gate Tunnel Project	
ZEV	Zero Emission Vehicles (includes EVs and Hydrogen vehicles)	

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