



Transit X presents a preliminary proposal for a sustainable micro-rail network a fleet of automated electric vehicles (pods) for passengers and freight on a local and regional podway providing equitable public transportation for

Darwin, Australia

This proposal is downloadable at transitx.com/proposals/Transit X for Darwin,Australia.pdf

High capacity · High speed · Nonstop · 24/7 Solar powered · Zero Wait · Door-to-door · Resilient

A companion Transit X Handbook is available at transitx.com/transitxhandbook.pdf

184 km network with 3,971 pods

95% of population within a 10 min. walk

Nonstop 72 km/h service to 370 stops



Transit X proposes to finance, build and operate a sustainable microrail podway to carry passengers and freight for Darwin that makes the Transit X service convenient to 95% of the population.

Transit X efficiently services both suburbs and cities and provides for a higher quality of life. See transitx.com for more details. This 3-minute video (transitx.com/ video) describes our innovative solution.

Major benefits

- · Reduce congestion
- · Provide parking relief
- Reduce pollution
- · Improve safety

The Transit X Handbook (<u>transitx.com/</u> <u>transitxhandbook.pdf</u>) answers many questions about our service, the company, our technology, and the way we address: congestion, parking, road safety, pedestrian safety, ADA compliance, sustainability, fares,



solar+storage, construction, aesthetics, operations, economic development, quality of service, security, station footprint, equitability, carbon footprint, transit integration, resiliency, reliability, rights-of-way, and open space.

Congestion, parking, pollution, and safety

Most regions suffer from traffic congestion, limited parking, air pollution, and unsafe roads. Potential solutions are costly, but Transit X can solve these challenges without public funding. Transit X can integrate into the built environment, providing both short term relief and a long term solution.

High Capacity & High Speed

A single track carries 12,000 pods per hour (20,000 to 50,000 passengers per hour). Two boarding areas fit in a single car space and provide 2,000 boardings per hour. For urban commutes, pods trips are 3 times faster than car trips and the high-speed podway provides faster door-to-door trips than air travel for distances of 1,000 miles or less.

Zero Footprint and Minimal Disruption

Transit X features stops that don't interfere with pedestrians or other forms of transportation. We use easements alongside highway and roads and integrate utility lines and poles Non-stop interchanges fit above existing intersections. Factory-built tracks and posts enable fast installation with minimal disruption. There are options for long crossings using bridges or underground tunnels. Posts are typically spaced at 23 m (25 yds).

Low-cost Infrastructure & equitable fares

Transit X does not require government funding because our revenue from fares, freight, and advertising is greater than our costs. We have reduced or eliminated many costs of transportation including the cost of materials, land, construction, fuel, debt service, and labor. Our projects are typically financed by investment banks, private equity firms, banks, and governments.

Proven technology

Our team and partners have built fully automated systems that are now in operation around the world. Transit X may look unique, but the underlying design is very similar to systems that have been operating for 40 years with an exemplary safety record. The rollout and maiden flight occurred on Oct 29, 2018 in Leominster, Massachusetts. The first Transit X system will be demonstrated by the end of 2019.

Service Quality

Transit X provides on-demand, last-mile service that is superior to cars or buses. An operating agreement will guarantee high levels of availability and reliability. Our use of small vehicles (pods) makes this possible. By reducing car use, Transit X creates walkable and bike-friendly neighborhoods.

Less pollution: Air, Sound, Light, Visual, Water

Transit X offers a much higher quality of life by eliminating many forms of pollution. Pods are quiet, efficient and have zero emissions. Pods offer less visual impact than the existing roads and vehicles, and utility lines can be hidden within the track. At night, there is no light pollution from headlights or taillights. Water pollution from road runoff is significantly reduced. Parking lots and roadways can be converted into green space and community paths as they become unnecessary.

Sustainable and Efficient

Pods weigh only 55 kg (121 lbs) and achieve over 20 times the efficiency of electric cars. Solar, wind, and storage installed on our tracks and posts can provide 100% of the clean energy needed to power the system.

More Transit & Fewer Cars

Transit X provides the convenience and privacy that people value in cars, yet without the negative impacts of personal cars. Transit X combines the best of mass transit and personal transportation modes which will lead to greater use of public transit and fewer cars.

De-risking Projects

Transit X partners with large, established firms to provide fixed-price contracts for the engineering, certification, construction, and operations of a Transit X system. Theses partnerships enable Transit X to de-risk all of the major elements of the project, and provide performance guarantees. We work with local construction firms.

Jobs and Workforce Development

Many regional jobs will be created to build a new transportation infrastructure, as well many new types of jobs will be created from economic growth. The majority of

the construction jobs will be locally sourced and preferential hiring is given to those displaced by the transition.

Revenue Generator for Government

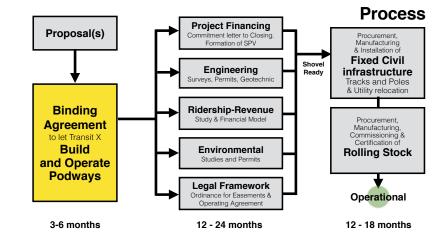
Not only does Transit X not require public financing, but the government and private easement owners receive 4-5% of gross revenue, which would be US\$22 million per year average over the first 10 years.

Short and Long Term Solution

A project could be operational within 24 months from the start of a project. Transit X offers a rapidly-deployable solution that provides long term benefits. We would form a local company to build, operate, and maintain the network. At least 75% of the profits would be invested back into the region.

Moving Forward

The diagram shows our process for a project. We submit a project proposal, then ask for a commitment for Transit X to build and operate a podway along rights-of-way easements. Example documents and a sample project schedule can be viewed at: transitx.com/process



Evaluation

Please review our

preliminary proposal, and then ask us any questions. We would be happy to provide further information, address specific concerns, or meet with specific people or groups. Any routes or coverage areas shown on the map are only preliminary suggestions and actual routes would be determined based on needs, rights-of-ways, utility corridors, location of trees, and many other factors.

We expect this proposal to be reviewed by one or more committees or working groups. Familiar transportation options, such as buses, light rail, subways, and ridesharing services (including autonomous vehicles) may have already been considered. Very few options offer the convenience of cars with at least the capacity of buses, and most, if not all, require public funding and subsidies.

Private cars have a dominant mode share because people like the privacy and convenience of a car — despite the significant risks and negative impact associated with them. People won't give up their cars unless the alternative is both better and cheaper. That is what Transit X can provide.

We hope you agree that this proposal offers a way to address your challenges in both the short and long term, providing an option that is better and lower risk than any alternative — including continuing with the status quo.

We hope you will conclude that moving forward with Transit X is an excellent opportunity to meet your current and future challenges.

Once we agree to move forward, we look to receive a commitment for Transit X to build and operate a podway along rights-of-way easements.

A podway network is rolled out in phases that each take less than 24 months.

Other Resources

The links below provide general information about Transit X:

- · One minute video overview (transitx.com/video)
- <u>Transit X Handbook</u> (transitx.com/transitxhandbook.pdf)
- · Letters of Project Financing, Due Diligence, Contracts (transitx.com/letters.pdf)
- Memorandum of Understanding template (transitx.com/process/mou.html)
- Example Right-of-Way agreement (<u>transitx.com/process/resolution.html</u>)
- · Operating Agreement (transitx.com/process/operating_agreement.html)
- · General Q & A (transitx.com/QandA.html)
- Other proposals (transitx.com/proposals)

Addendum

The remaining pages of this proposal provide project-specific details:

- Project Overview and Impact pages 6 and 7
- Taxes and Fees pages 8 and 9
- Fares page 10 and 11
- Financial Project Summary with Pro Forma pages 12 and 13

We look forward to working with you to improve the quality of life for Darwin through better transportation.

Sincerely,



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Telephone: +1 508-596-7024 (WhatsApp connected)

Zoom e-room: https://zoom.us/j/8229009123

Website: transitx.com

Twitter: http://twitter.com/TransitXCorp

Mail: 1127 Commonwealth Ave #30, Boston, MA 02134 USA



Project Overview



1	Transit X network length	184	km	
2	People (resident-equivalent) in region	145,916	resident-equivalent p	opulation
3	Route density ratio (route length to service area)	0.58		
4	Number of stops	370		
5	Triple-speed route length	0	km	
6	Water crossing route length	0	km	
7	Cost of fixed infrastructure	\$667,471,629		
8	per person	\$4,574		
9	Mode share of travel on Transit X (25% after first year)	75%	after 10 years	
10	Distance traveled by passengers on Transit X, per year	981,054,662	km	
11	per day	2,687,821	km	
12	Daily potential energy generation with standard panels on tracks	1,413.3	MWh	
13	Sustainable energy use per day	16.9	MWh	1.0% of max capacity
14	Energy storage capital cost for 1 day(s) of supply at \$250 per kWh	\$4,236,124		
15	Size (rated power) of solar installation	3,939	KW	
16	Cost to generate sustainable energy (at \$1,000 per kW)	\$3,939,326		
17	Cost of buying sustainable energy at \$0.15 per kWh	\$2,542	per day	3% of OPEX
18	Daily passengers riding Transit X			75% of the pop.
19	Distance per passenger per day		km	
20	Average distance per trip (assuming 3 trips per day)		km	
21	Single passenger fare for shared 8 km trip	\$1.83	2.69	
22	Passenger distance traveled during peak hour	537,564		NOD
				0% of expected and 32% to Transit X)
23	Breakeven			
24	Boarding capacity		passengers per hour	(122% of customers)
25	Number of pods for peak demand	3,971	pods at 75% mo	ode share
26	Number of pods for peak demand Number of customers per pod	27.5	and 37 people per	
26 27	Number of customers per pod Distance per pod per year	27.5 168,208	and 37 people per km	pod
26 27 28	Number of customers per pod	27.5 168,208 4,368	and 37 people per km m ²	pod 0.2% of car parking
26 27 28	Number of customers per pod Distance per pod per year Two-layer pod garage area (3% of route with side–parking) Cost of pods	27.5 168,208 4,368 \$25,811,500	and 37 people per km m ² is \$136 per person	pod 0.2% of car parking
26 27 28 29	Number of customers per pod Distance per pod per year Two-layer pod garage area (3% of route with side-parking)	27.5 168,208 4,368 \$25,811,500	and 37 people per km m ²	pod 0.2% of car parking
26 27 28 29 30	Number of customers per pod Distance per pod per year Two-layer pod garage area (3% of route with side–parking) Cost of pods	27.5 168,208 4,368 \$25,811,500	and 37 people per km m ² is \$136 per person	pod 0.2% of car parking
26 27 28 29 30	Number of customers per pod Distance per pod per year Two-layer pod garage area (3% of route with side–parking) Cost of pods Capital cost of energy generation and storage	27.5 168,208 4,368 \$25,811,500 \$10,628,086	and 37 people per km m ² is \$136 per person is \$73 per person	pod 0.2% of car parking
26 27 28 29 30	Number of customers per pod Distance per pod per year Two-layer pod garage area (3% of route with side–parking) Cost of pods Capital cost of energy generation and storage	27.5 168,208 4,368 \$25,811,500 \$10,628,086 \$703,911,214	and 37 people per km m ² is \$136 per person is \$73 per person 1,034,749,485	pod 0.2% of car parking
26 27 28 29 30 31 Pr 32 33	Number of customers per pod Distance per pod per year Two-layer pod garage area (3% of route with side–parking) Cost of pods Capital cost of energy generation and storage Oject Finances Total Project Cost	27.5 168,208 4,368 \$25,811,500 \$10,628,086	and 37 people per km m ² is \$136 per person is \$73 per person 1,034,749,485 per km	pod 0.2% of car parking AUD
26 27 28 29 30 31 Pr 33 33 34	Number of customers per pod Distance per pod per year Two-layer pod garage area (3% of route with side–parking) Cost of pods Capital cost of energy generation and storage Oject Finances Total Project Cost Project cost per km	27.5 168,208 4,368 \$25,811,500 \$10,628,086 \$703,911,214 \$3,825,010	and 37 people per km m ² is \$136 per person is \$73 per person 1,034,749,485 per km	0.2% of car parking AUD
26 27 28 29 30 31 Pr 32 33 34 35	Number of customers per pod Distance per pod per year Two-layer pod garage area (3% of route with side–parking) Cost of pods Capital cost of energy generation and storage Oject Finances Total Project Cost Project cost per km Equity financing	27.5 168,208 4,368 \$25,811,500 \$10,628,086 \$703,911,214 \$3,825,010 \$211,173,364	and 37 people per km m ² is \$136 per person is \$73 per person 1,034,749,485 per km 310,424,845	0.2% of car parking AUD
26 27 28 29 30 31 Pr 32 33 34 35 36	Number of customers per pod Distance per pod per year Two-layer pod garage area (3% of route with side–parking) Cost of pods Capital cost of energy generation and storage Oject Finances Total Project Cost Project cost per km Equity financing	27.5 168,208 4,368 \$25,811,500 \$10,628,086 \$703,911,214 \$3,825,010 \$211,173,364	and 37 people per km m ² is \$136 per person is \$73 per person 1,034,749,485 per km 310,424,845	0.2% of car parking AUD
26 27 28 29 30 31 Pr 32 33 34 35 36 37 38	Number of customers per pod Distance per pod per year Two-layer pod garage area (3% of route with side–parking) Cost of pods Capital cost of energy generation and storage Oject Finances Total Project Cost Project cost per km Equity financing Debt financing	27.5 168,208 4,368 \$25,811,500 \$10,628,086 \$703,911,214 \$3,825,010 \$211,173,364 \$492,737,850	and 37 people per km m ² is \$136 per person is \$73 per person 1,034,749,485 per km 310,424,845 724,324,639	pod 0.2% of car parking AUD AUD AUD
26 27 28 29 30 31 Pr 33 34 35 36 37 38 39	Number of customers per pod Distance per pod per year Two-layer pod garage area (3% of route with side–parking) Cost of pods Capital cost of energy generation and storage Oject Finances Total Project Cost Project cost per km Equity financing Debt financing	27.5 168,208 4,368 \$25,811,500 \$10,628,086 \$703,911,214 \$3,825,010 \$211,173,364 \$492,737,850 \$83,765,434	and 37 people per km m ² is \$136 per person is \$73 per person 1,034,749,485 per km 310,424,845 724,324,639 123,135,189	pod 0.2% of car parking AUD AUD AUD AUD
26 27 28 29 30 31 Pr 33 34 35 36 37 38 39 40	Number of customers per pod Distance per pod per year Two-layer pod garage area (3% of route with side–parking) Cost of pods Capital cost of energy generation and storage Oject Finances Total Project Cost Project cost per km Equity financing Debt financing	27.5 168,208 4,368 \$25,811,500 \$10,628,086 \$703,911,214 \$3,825,010 \$211,173,364 \$492,737,850	and 37 people per km m ² is \$136 per person is \$73 per person 1,034,749,485 per km 310,424,845 724,324,639 123,135,189	pod 0.2% of car parking AUD AUD AUD AUD
26 27 28 29 30 31 Pr 33 34 35 36 37 38 39 40 41	Number of customers per pod Distance per pod per year Two-layer pod garage area (3% of route with side–parking) Cost of pods Capital cost of energy generation and storage Oject Finances Total Project Cost Project cost per km Equity financing Debt financing	27.5 168,208 4,368 \$25,811,500 \$10,628,086 \$703,911,214 \$3,825,010 \$211,173,364 \$492,737,850 \$83,765,434	and 37 people per km m ² is \$136 per person is \$73 per person 1,034,749,485 per km 310,424,845 724,324,639 123,135,189	pod 0.2% of car parking AUD AUD AUD AUD
26 27 28 29 30 31 Pr 33 34 35 36 37 38 39 40 41 42	Number of customers per pod Distance per pod per year Two-layer pod garage area (3% of route with side–parking) Cost of pods Capital cost of energy generation and storage Oject Finances Total Project Cost Project cost per km Equity financing Debt financing	27.5 168,208 4,368 \$25,811,500 \$10,628,086 \$703,911,214 \$3,825,010 \$211,173,364 \$492,737,850 \$83,765,434	and 37 people per km m ² is \$136 per person is \$73 per person 1,034,749,485 per km 310,424,845 724,324,639 123,135,189	pod 0.2% of car parking AUD AUD AUD AUD
26 27 28 29 30 31 Pr 32 33 34 35 36 37 38 39 40 41 42 43	Number of customers per pod Distance per pod per year Two-layer pod garage area (3% of route with side–parking) Cost of pods Capital cost of energy generation and storage Oject Finances Total Project Cost Project cost per km Equity financing Debt financing Debt financing	27.5 168,208 4,368 \$25,811,500 \$10,628,086 \$703,911,214 \$3,825,010 \$211,173,364 \$492,737,850 \$83,765,434 \$28,157,157	and 37 people per km m ² is \$136 per person is \$73 per person 1,034,749,485 per km 310,424,845 724,324,639 123,135,189 41,391,021 216,203,034	pod 0.2% of car parking AUD AUD AUD AUD AUD AUD
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 26 27 28 29 30 31 Pr 32 33 34 35 36 37 38 39 40 41 42 43 44 45 	Number of customers per pod Distance per pod per year Two-layer pod garage area (3% of route with side–parking) Cost of pods Capital cost of energy generation and storage Oject Finances Total Project Cost Project cost per km Equity financing Debt financing Debt financing Net service (per year) Yearly fees and taxes (US\$193 per capita) OPEX + Debt service + Tax + Fees OPEX + Debt service + Tax + Fees	27.5 168,208 4,368 \$25,811,500 \$10,628,086 \$703,911,214 \$3,825,010 \$211,173,364 \$492,737,850 \$83,765,434 \$492,737,850 \$83,765,434 \$492,737,850	and 37 people per km m ² is \$136 per person is \$73 per person 1,034,749,485 per km 310,424,845 724,324,639 123,135,189 41,391,021 a10,000 7,091 motor vehicles	pod 0.2% of car parking AUD AUD AUD AUD AUD AUD AUD AUD AUD
 26 27 28 29 30 31 Pr 33 34 35 36 37 38 39 40 41 42 43 44 	Number of customers per pod Distance per pod per year Two-layer pod garage area (3% of route with side-parking) Cost of pods Capital cost of energy generation and storage Distance per pod per year Cost of pods Capital cost of energy generation and storage Distance per pod per year Cost of pods Cost of pods Capital cost of energy generation and storage Distance per pod per year Total Project Cost Project cost per km Equity financing Debt financing Debt financing Debt service (per year) Yearly fees and taxes (US\$193 per capita) Project costs — per person Number of motor vehicles displaced Yearly cost of cars displaced — per person	27.5 168,208 4,368 \$25,811,500 \$10,628,086 \$703,911,214 \$3,825,010 \$211,173,364 \$492,737,850 \$83,765,434 \$492,737,850 \$83,765,434 \$492,737,850 \$83,765,434 \$492,737,850 \$83,765,434 \$492,737,850 \$83,765,434 \$492,737,850 \$83,765,434 \$492,737,850 \$83,765,434 \$492,737,850 \$83,765,434 \$492,737,850 \$83,765,434 \$492,737,850 \$83,765,434 \$492,737,850 \$83,765,434 \$492,737,850 \$83,765,434	and 37 people per km m ² is \$136 per person is \$73 per person 1,034,749,485 per km 310,424,845 724,324,639 123,135,189 41,391,021 216,263,684 7,091	pod 0.2% of car parking AUD AUD AUD AUD AUD AUD AUD AUD AUD
 26 27 28 29 30 31 Pr 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 	Number of customers per pod Distance per pod per year Two-layer pod garage area (3% of route with side–parking) Cost of pods Capital cost of energy generation and storage Oject Finances Total Project Cost Project cost per km Equity financing Debt financing Debt financing	27.5 168,208 4,368 \$25,811,500 \$10,628,086 \$703,911,214 \$3,825,010 \$211,173,364 \$492,737,850 \$83,765,434 \$492,737,850	and 37 people per km m ² is \$136 per person is \$73 per person 1,034,749,485 per km 310,424,845 724,324,639 41,391,021 123,135,189 41,391,021 123,135,189 41,391,021 123,135,189 41,391,021 123,135,189 41,391,021 123,135,189 123,189 123,185	pod 0.2% of car parking AUD AUD AUD AUD AUD AUD AUD AUD AUD
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Project Overview p. 2



Impact of proposed network

1	Reduction in GHG emissions (metric tons CO2-eq)
2	Estimated cost to maintain public roadways
3	Reduced waste products
4	Travel time saved (non-stop travel and congestion)
5	Cost savings from reduced car ownership
6	Increase in household income (from time savings and car costs)
7	Reported injuries avoided
8	Lives saved (from safety)
9	Land freed from parking (558 acres)
12	Temperature reduction (from heat island effect & GHG reductions)
11	Health care savings (from pollution, injuries)

Model Inputs

	•	
15	Ratio of road length to track length	
16	Walking speed	
17	Width of convenient swath along track	
18	Fixed cost per km (track & posts)	\$2,
19	Water crossing: additional cost per km	\$8,
20	Triple-speed: additional cost per km	\$5,
21	Rate factor for water crossings or high-speed links.	
22	Average distance traveled per person per year (for trips under 1600 km)	
23	Average distance per day per person	
24	Mode share % of people convenient to Transit X	
25	Percentage of daily demand during peak hour	
26	Maximum capacity per track	
27	Average dwell time during peak hour	
28	% of pods traveling on route with highest demand	
29	Average speed of pod	
30	Average # of trips for a daily customer	
31	Average passengers per pod during peak hours	
32	Average passengers per pod	
00	Average discount per passenger	
33	Maximum passengers per pod Empty pods: Percentage non-revenue	
34 35	Empty pous. Percentage non-revenue Ex-Factory cost per pod	
35	Worldwide Median Income per Household (US\$)	
37	Average number of residents per household	
38	Base fare per km	
39	(per mile)	
40	O&M as % of project cost	
41	Percentage debt financed	
42	Length of loan/debt	
43	Interest rate for debt	
44	kg CO2 emissions per liter of gasoline	
45	Monetary value of 1 hour personal time (USD)	
46	Eat. roadway maintenance per year per km	
47	Area of one parking lot space	
48	Commercial income of land (annual)	
49	Distance from roadway that is convenient	
50	Stops per km	
51	Boarding capacity per stop	
52	Solar panel area per meter of track	
53	Cost of sustainable energy and storage	
54	Global Horizontal Irradiance (GHI)	
55	Cost to generate sustainable energy	
56	Storage per column Typical span	
57	Energy storage cost	
58	Energy storage capacity	
59 60	Area of parked pod	
61	Distance discount at max distance	
62	Max distance discount	
63	Max usage discount at 10,000 km per capita	
64	Shared Pod Discount	
65	Shared Pod Compartment Discount	
66	Mode share starting discount	
	•	

•		
4		
-	km/h	
1.63	km	
2,790,000	4,101,300	
3,370,000	4,101,000	AUD
5,580,000		
2.2		
10,000	km	
27	km	
	at 5 min walk.	
20%		
25,380		
	seconds	
18%		
	km/h	45 mph
3	per day	
2.4	passengers	
1.5	passengers	
19%		
5	passengers	
25%		
\$5,000	7,350	AUD
10,000	14,700	AUD
2.3		AUD
\$0.37	0.5	AUD
\$0.60	0.9	AUD
5%		
70%		
10	years	
7%	youro	
2.37		
\$12.50	18	AUD
\$51,000	74,970	
	m ²	AUD
\$1.00	per m ²	AUD
0.49		AUD
2.0	NIII	
	nnh	
360	ррп	
2.0	an an LAA/In	
\$0.15	1 · ·	
3.8	kWh/m²/day	
	per kW	
40	kWh	
23	m cols/km:	44
\$250	per kWh	
1	days	
2.20	m ²	
40%		
500	km	
50%		
20%		
40%		
67%		

96,879	MTCO2-eq annually
\$32,602,114	annually
15,721	metric tons annually
438	hrs/person annually
\$2,239	per person annually
15%	
608	annually
6	annually
2,256,426	m ²
0.5 to 2	С°
High	

Model Inputs (continued)

68	Name of region or project	Darwin, Australia
69	Currency name	AUD
70	Equal to US\$1	1.47
71	Sustainable energy/electricity generation & storage as	CAPEX
72	Land area of region (sq. km)	3,164
73	Number of residents in region	145,916
74	% travel within region	90%
75	% of land area served by roads	10%
76	Coverage: % of pop. convenient (10 min walk) to Transit X	95%
77	Annual median household income (US\$)	\$50,000
78	Convenient walk time to stop (min)	10
79	Triple-speed route length (km)	0
80	Water crossing route length (km)	0.0
81	Visitors per year	0
82	Average length of visit (days)	2
83	Solar production ratio	1.57
84	Regional Fare Factor	1.0
85	EPC costs & contingency	30%
86	Triple-speed (km/h)	242
87	Daily Passengers Adjustment	100%
88	Number of Stops Adjustment	100%
89	Mode Share Adjustment	100%

Pod & Car

		Pod	Car
87	Service life (years)	20	12
88	Full cost of vehicle per year	\$200	\$9,000
89	Public cost to maintain infrastructure (per km)	\$0	\$100,000
90	Energy consumption (MPGe)	3564	24
91	Energy consumption (liters/100km)	0.07	9.8
92	Energy consumption (Watt-hours/km)	9	1375
93	mass of CO2 per vehicle per km (kg)	0	0.09875
94	Vehicle mass (kg)	45	1950
95	Average speed of urban travel (km/h)	72	16
96	Typical travel time (in minutes) for 8 km trip	7	31
97	Fare/cost per km	\$0.37	\$0.62
98	Number of deaths per 100M passenger-km	0.00001	1
99	Number of injuries per 100M passenger-km	0.0006	62
100	Volume to park (cubic meters)	5.7	70.9



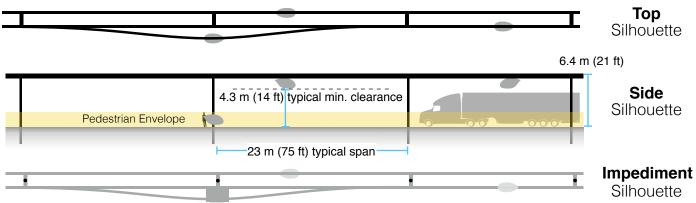
Taxes and Fees

5% of gross revenue is paid for air rights and local taxes.

A minimum payment is based on the Footprint and the Transit X Commercial Rate (TXCR).

1	Air-rights and Local Taxes		(for calculating min	nimums)	
2	Total commercial land (estimated)	31,640,000	m ²	;	acres
3	Total commercial gov't revenue (US\$)	\$31,640,000		46,510,800	AUD
4	TXCR (Transit X Commercial Rate)	\$1.00	per m ² (estimated)	1.5	AUD
5	TXCR is the yearly tax rate per land area. Calculation: total land area of commercial properties in the governmental region, divided by all the governmental income generated by those properties. The TXCR is used to calculate the minimum tax/fee.		、 <i>,</i>		
7	Private Easement Fees	For examp	ble		
8	4% of gross revenue	\$30.60	per route-meter		
	Minimum net veet	\$1 49	per route-meter		
9	Minimum per year	φ1.10	per route meter		
9 10	Transit X payment to Gover				
		rnment	estimated		
10	Transit X payment to Gover	rnment	estimated	40,728,764	AUD
10 11	Transit X payment to Gover % of route on government easements	rnment 98%	estimated	40,728,764 279	
10 11 12	Transit X payment to Govern % of route on government easements Total air-rights and local taxes	rnment 98% \$27,706,642	estimated per year		AUD
10 11 12 13	Transit X payment to Gover % of route on government easements Total air-rights and local taxes per resident	rnment 98% \$27,706,642 \$190	estimated per year	279 402,052	AUD
10 11 12 13 14	Transit X payment to Gover % of route on government easements Total air-rights and local taxes per resident	rnment 98% \$27,706,642 \$190 \$273,505	estimated per year per year	279 / 402,052 / 0 /	AUD AUD
 10 11 12 13 14 15 	Transit X payment to Gover % of route on government easements Total air-rights and local taxes per resident with a minimum of	rnment 98% \$27,706,642 \$190 \$273,505	estimated per year per year	279 402,052 402,052 0	AUD AUD AUD
10 11 12 13 14 15 16	Transit X payment to Gover % of route on government easements Total air-rights and local taxes per resident with a minimum of	rnment 98% \$27,706,642 \$190 \$273,505 Government	estimated per year per year	279 402,052 4002,052 4002,052 4002,052 4002,052 4002,052 4002,052 4002,052 4002,052 4002,052 4002,052 4002,052 4002,052 4002,052 4002,052 4002,052 4002,052 4002,052 4002,052 400000000000000000000000000000000000	AUD AUD AUD AUD
10 11 12 13 14 15 16 17	Transit X payment to Gover % of route on government easements Total air-rights and local taxes per resident with a minimum of Other financial benefits to C Less road maintenance from lower VMT	rnment 98% \$27,706,642 \$190 \$273,505 Government	estimated per year per year	279 402,052 400,052 400,050 400,000 400,000 400,00000000000	AUD AUD AUD AUD AUD

Footprint calculations for minimum fee



Pod landing area: 1.5m x 2.5m with 3m minimum spacing

1	Footprint Calculations	Metric	: Imperial
2	Track width	0.30	<u>)</u> m
3	Track height	<u>0.60</u>) m
4	Post diameter	<u>0.3</u>	<u>k</u> m
5	Post cross section	<u>0.07</u>	2 m ²
6	Stop landing area	<u>3.75</u>	2 m ²
7	width	<u>1.5</u>	
8	length	<u>2.5</u>	i m
9	Ramp length		_ m
10	Typical Span	<u>23</u>	
11	Number of posts per unit length	<u>43.5</u>	poles per km
12	Post height	<u>6</u>	<u>i</u> m
13			
14	Single track	1022.1	m ²
15	Area of Side Silhouette	678.3	8 m ²
16	Area of Top Silhouette	313.1	m ²
17	Impediment Area (adjusted)	30.7	' m ²
18			
19	Dual track	1322.1	m ²
20	Area of Side Silhouette	678.3	8 m ²
21	Area of Top Silhouette	613.1	
22	Impediment Area (adjusted)	30.7	' m ²
23			
24	Stop	82.1	m ²
25	Area of Side Silhouette	25.2	2 m ²
26	Area of Top Silhouette	19.4	
07	•	07.5	
27	Impediment Area (adjusted)	37.5	o m²
28			
29	Stops with dedicated landing areas	2	stops per km
30	% of dual track	100%	
31			
32	Average area per unit length	1,486	m² per route-km
33			
34	Contract values		
35	% gross revenue for government on private prop.	1%	
36	% gross revenue for private easement	4%	
37	% gross revenue for government easement	5%	
38	Impediment Factor	10	



Summary

The average commute would be 3.5 times faster saving each commuter 295 hours per year.*

At 0.33 AUD per km, a typical commute on Transit X is 17% less than public transit and 74% less than a Taxi.*

			_						Trip	o Le	eng	th	
All pri	,	2 km					1	0	(m)	40 km		
Transit X				0.65 to 1.09 2 min., 3.6x faster					3.23 to 5.41 8 min., 3.6x faster				12.40 to 21.13 33 min., 3.4x faster
Public transit average				3.66				5.82				8.54	
lodes	Тах	1		5.08 2 to 6 minutes				22.10 8 to 30 minutes			es	85.95 30 to 120 minutes	
Common public modes	Uber/Lyft Public Bus			3.86 2 to 6 minutes 2.95 3 to 12 minutes				15.91 8 to 30 minutes 2.95 15 to 60 minutes			es	61.10 30 to 120 minutes 4.52 60 to 240 minutes	
d uou											tes		
Com	Trai	n		4.42 2 to 12 minutes				5.21 8 to 60 minutes			es	8.15 30 to 240 minutes	
Personal car				2 t	4 . o 6 r	14	es		1 8 to 3	2. 30 n			45.42 30 to 120 minutes
Travel mode	Avg. Speed km/h	Low Speed km/h	High speed km/h	Base	Includ es km	Over per-km		Max Dist. km	Time cost per min	6%	shar 70%	-	* All numbers on mode shares, speeds, and cos are rough estimates
Тахі	30	20	80	2.95	1		0.5	100	1.31	5%	4%	1%	
Uber/Lyft	30	20	80	2.36	1	1.18	0.5	100	0.65	10%	10%	2%	
Public Bus	15	10	40	2.95	20	0.08	0.5	50	0	50%	50%	40%	
Train	30	10	80	4.42	2	0.10	2	100	0	35%	36%	57%	
Transit X	72	72	72	0	0	0.33	0.1	50	0	-	-	-	

Base fares are set for first 5 years, then adjusted by formula. A 20% discount on a shared pod and a 40% discount on a shared compartment. Trips are discounted proportional to their length reaching a maximum of a 40% discount on a 500 km trip. No congestion–based pricing. Fares are proportional to the median income of the area and inversely proportional to per capita use, so the more use of Transit X, the lower the base fare up a to 50% discount. The amount of market–rate fares must be less than the amount of discounted fares. Transit X Fair Fare Formula and Fair Freight Formula is universal and applies to all regions and all times.

0.21

0.98 0.1 400

30

20

Personal car

1.96

0

80



Fair Fare Formula

Fare rates are updated annually using this formula

					:
	Name	Value	Units	Description of the value or model input	In USD
1	GlobalIncome	14,700	AUD	Global median household income. Updated annually based on most recent standard published data.	10,000
2	AllTravel	23,000	km	Travel distance per household per year on any mode for trips under 1600 km. A global constant	
3	PercentIncomeForTr ansport	20%		% of median household income for all transportation under 1600 km trips. A global constant.	
4	GlobalRate	0.13	AUD/km	Global rate: Globalincome * PercentincomeForTransport / AllTravel	0.09
5	IncomeFirst	\$73,500	AUD	Median household income at first stop (per person per day). External input. Based on reliable public data source updated annually.	\$50,00
6	IncomeDest	\$110,250	AUD	Median household income at destination per trip. External input. Based on reliable public data updated annually.	\$75,00
7	RegionalRate	0.64	AUD/km	Regional rate based on median income: MedianIncomeFirst * PercentIncomeForTransport / AllTravel	0.43
3	UnderIncomeRate	0.00	AUD/km	Under global income adjustment: if (RegionalRate < GlobalRate, GlobalRate - RegionalRate, 0)	0.00
)	NominalRate	0.64	AUD/km	Nominal rate: RegionalRate + UnderIncomeRate	0.43
)	RegionalFactor	1.00		Regional Fare Factor. Negotiated upfront to make network financially viable.	
2	AdjustedRate Population	0.64	AUD/km	Regional adjusted rate: NominalRate * RegionalFactor	0.43
3	UsageMaxDiscount	145,916 50%		Population in region. Updated annually based on trusted public data source. Fare Discount when Transit X travel per household equals AllTravel. Global constant.	
	-			Total passenger distance traveled previous calendar year. Based on expected mode share for	
1	PassengerTravel	981,054,662	km	first 3 years. Based on actual passenger trips. Audited.	
5	ModeShare	29%		Percent of Total Travel Per Capita on Transit X: PassengerTravel / (Population x AllTravel)	
5	BaseRate	0.55	AUD/km	Base rate for single-passenger pod (without discounts) (1 - UsageMaxDiscount x min(1,ModeShare)) x AdjustedRate	0.37
7	SpecialRateFactor	2.20		Rate factor for water crossings or high-speed links. Global constant.	
3	SpecialBaseRate	1.20	AUD/km	Base rate for high-speed travel or water crossings: BaseRate * SpecialRateFactor	0.82
)	DistanceDiscount MaxDistanceDiscou	40%		Distance discount at max distance. Global constant.	
)	nt	500	km	Max distance discount. Global constant.	
	DistanceDiscountPe rKm	0.000437	AUD/km	Discount amount per km: BaseRate x DistanceDiscount / MaxDistanceDiscount	
-	SeniorDiscount	20%		Senior discount set according to local regulations	
5	StudentDiscount	20%		Student discount set according to local regulations	
	DisabilityDiscount	20%		Disability discount set according to local regulations	
ŀ	DiscountBaseRate	0.44	AUD/km		0.30
5	SharedPodDiscount	20%		Discount for a shared pod. Set by Transit X per year. 15% minimum and 30% maximum. Maximum yearly change is one percentage point.	
;	SharedPodRate	0.44	AUD/km	· · · · · · · · · · · · · · · · · · ·	0.30
,	SharedCompartment Discount	40%		Discount for shared compartment. Set by Transit X per year. 25% minimum and 40% maximum. Maximum yearly change is one percentage point.	
3	SharedCompartment Rate	0.33	AUD/km	Rate for shared compartment BaseRate x (1 - SharedCompartmentDiscount)	0.22
9	SingleOccupancyMa xDistance	0.37	AUD/km	Rate for 500 km in single-passenger pod.	
)	Senior + SharedCompartment Rate	0.16	AUD/km	Rate for a Senior taking a 500 km trip in a shared compartment. BaseRate x (1 - SeniorDiscountAmount) x (1 - SharedCompartmentDiscount) x (1 - MaxDistanceDiscount)	0.11
	50PctIncomeAtDest	25%		% Higher fare rate if Destination has 50% higher median income than First (IncomeDest / IncomeFirst - 1) / 2	
	DistanceBase	725,980,450	km	Passenger distance under base fare. Audited value from operational data.	
}	PercentBase	74%		Percent of passenger distance under base fare: DistanceBase / PassengerTravel	
ŀ	BaseRevenue	321,275,711	AUD	Annual revenue from all travel under base rate. Audited value from operational data.	
	AverageDiscount	19%		Average fare discount from Base Rate: 1 - (BaseRevenue / (DIstanceDase x BaseRate))	
	0			Market rate factor. Negotiated value for setting ratio of AverageDiscount	
5	MarketFactor	1.0			
5	-	1.0 19%		Cap on passenger travel distance at market rate: AverageDiscount x MarketFactor	

Project Summary

Project A fully-automated, solar-powered, micro-rail **Description** network. A transportation utility.

Project type Sustainable Transportation Infrastructure Design, Build, Finance, Own, Operate, Maintain (DBFOOM)

Project equity US\$211 million (30% of total)

Cost to Gov't \$0

Structure Privately financed equity and debt

Debt term 10 years @ 7%

- Equity terms A waterfall profit distribution per year with:
 - 1. 90% until capital payback,
 - 2. then 50% until Target% is reached
 - 3. then 10%

Taxes & Fees \$27,706,642 per year

Benefits to society and Extremely high environment

Estimated return 21% average IRR at 5 yrs 31% average IRR at 10 yrs

Financials (US\$ in millions)	Year 1	Total Years 1-12
Gross Revenues	186	5,388
Taxes and fees	9	269
Debt service	\$34	\$379

ESG (Environmental, Social, Governance) Benefits

Clean Energy	yes	Improve Resiliency	yes
Energy security	yes	Sustainable	yes
Zero Emissions	yes	Equitable	yes
Zero GHG	yes	Recyclable Materials	yes
Lowers Pollution	yes	Affordable Housing	yes
Clean Water	yes	Improved Health	yes
Improved Safety	yes	Economic Development	yes
Add Green Space	yes	Access to Food	yes
Accessible	yes	Add Quality Jobs	yes





Transit X presents a preliminary proposal for a sustainable micro-rail network – a fleet of automated electric vehicles (pods) for passengers and freight on a local and regional podway providing equitable public transportation for

Darwin, Australia

High capacity • High speed • Nonstop • 24/7 Solar powered • Zero Wait • Door-to-door • Resilient



About Transit X

Transit X finances, designs, builds, and operates solar-electric micro-rail public transit podways to supplant buses, trains, cars, and trucks. Transit X offers its service to governments and commercial developers. Maiden Flight was on Oct 29, 2018 and pilot projects started in 2018. First pilots will break ground in 2019 and begin operations in 2020. Transit X is a privately held company founded in 2015, based in Boston, Massachusetts.

Status

	Now	Prior to close
Project financing	Available	Yes
Outdoor Test Track	Nov 2019	Yes
Rider-Revenue study	Preliminary	Yes
Environmental study	Per region	Yes
Air rights	Per project	Yes
Permitting	Per project	Yes
Safety certification	Per country	Yes
Construction firm	Per project	Yes
Design and major subs	Per project	Yes
Operations & Maint	Partners	Yes
Utility relocation	Per project	Agreements

General information available at <u>transitx.com</u>. Detailed information and references can be provided under appropriate nondisclosure/non-compete/non-circumvent agreements. Contact: Mike Stanley, CEO, Transit X, <u>mike@transitx.com</u>, 508-596-7024

12-year Pro Forma



Model Inputs and Assumptions

Route length (km)	184
Starting number of pods	1,310
Projected revenue growth	15%
Project Cost (Privately funded)	\$703,911,214
% Debt financed	70%
Debt	\$492,737,850
Equity	\$211,173,364
Debt payment (per year)	\$34,491,649

- Travel per year per pod (km) 168,208
- Revenue per vehicle-km (US\$) 0.84
 - OPEX as % of project cost 5%
 - Debt Interest rate 7%
 - Debt term (yrs) 10
- Profit share when below capital return 90%
 - Profit share when below Target IRR 50%
 - Profit share when above Target IRR 10%

Pro Forma

Y	/ears 0	1	2	3	4	5	6	7	8	9	10	11	12
Revenue	0	185,776,256	213,642,695	245,689,099	282,542,464	324,923,833	373,662,408	429,711,769	494,168,535	568,293,815	653,537,887	751,568,570	864,303,856
5% RoW÷tax÷fee	0%	9,288,813	10,682,135	12,284,455	14,127,123	16,246,192	18,683,120	21,485,588	24,708,427	28,414,691	32,676,894	37,578,429	43,215,193
Debt service	0	\$34,491,649	\$34,491,649	\$34,491,649	\$34,491,649	\$34,491,649	\$34,491,649	\$34,491,649	\$34,491,649	\$34,491,649	\$34,491,649	\$34,491,649	\$34,491,649

Investor share	0	86,508,189	103,675,153	60,043,844	41,576,412	44,477,390	47,813,515	51,650,059	56,062,085	61,135,914	66,970,818	73,680,957	81,397,618
Investor share (%)		90%	90%	44%	26%	23%	21%	20%	18%	17%	16%	15%	15%
Share / Orig Capital	0%	41%	49%	28%	20%	21%	23%	24%	27%	29%	32%	35%	39%
IRR to date	loss	(59%)	(7%)	10%	17%	21%	25%	27%	29%	30%	31%	32%	33%

Important Notices

The information contained in this document is not an offer to sell or a solicitation to buy any security. These materials and documents and information from which they are derived or which are referred to by or accessible from them may contain forward looking statements within the meaning of Section 27A of the Securities Act of 1933, Section 2E of the Securities Exchange Act of 1934 and the Private Securities Litigation Reform Act of 1995. All statements other than statements of historical fact are forward looking statements and are subject to risks and uncertainties. Forward looking statements generally can be identified by the use of forward looking terminology such as "may," "will," "expect," "intend," "estimate," "project," "anticipate," "believe" or "plan" or the negative thereof or variations thereon or similar terminology. Although Transit X believes that the expectations reflected in such forward looking statements are reasonable, it can give no assurance that such expectations will prove to be correct. All forward looking statements or circumstances after the date made. Except as required by law, Transit X undertakes no obligation to update any forward looking statements and information from which they are derived or which are referred to by or accessible from them represent Transit X's best estimate as to the allocation of the funding proceeds based upon its present business plan and financial condition. The costs and expenses to be incurred in pursuing the Company's business plan cannot be predicted with certainty. There can be no assurance that unforeseen events will not occur or that the Company's business plan will be achieved or that it will not be changed, and it is possible that the funding proceeds may be applied in a manner other than that described herein.

Jobs Report

1	Annual median household income (US\$)	\$50,000
2	CAPEX	
3	Average gross CAPEX salary (% of median HH)	125%
4	Average gross CAPEX salary	\$62,500
5	% of CAPEX as salary	15%
6	Years of CAPEX	2
7	# of CAPEX jobs	845
8	% of jobs that are manufacturing vs. construction	75%
9	Manufacturing jobs	634
10	Construction jobs	211
11	OPEX	
12	Average gross OPEX salary (% of median HH)	115%
13	Average gross OPEX salary	\$57,500
14	% of OPEX as salary	30%
15	Operations and Maintenance jobs	184