



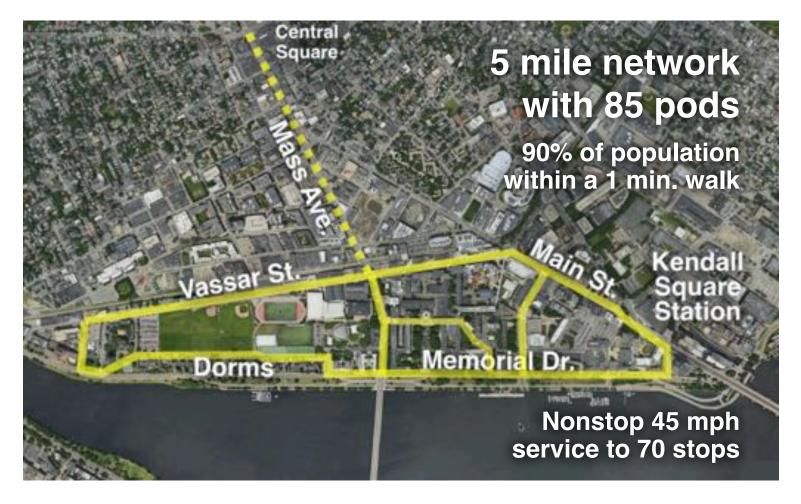
Transit X presents a preliminary proposal for a sustainable micro-road network a fleet of automated electric vehicles (pods) for passengers and freight on a local and regional podway providing equitable public transportation for

MIT Campus, Cambridge, MA

This proposal is downloadable at transitx.com/proposals/Transit X for MIT Campus,Cambridge,MA.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





Transit X proposes to finance, build and operate a sustainable microroad podway to carry passengers and freight for MIT Campus that makes the Transit X service convenient to 90% 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

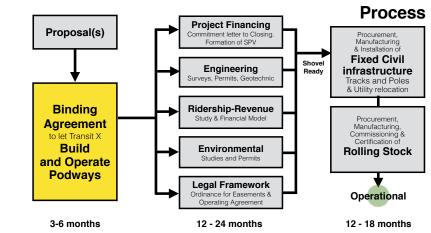
Not only does Transit X not require public financing, but the government and private easement owners receive 4-5% of gross revenue, which would be US\$1 million per year average over the first 10 years.

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.

Other Resources

The links below provide general information about Transit X:

- One minute video overview (transitx.com/video)
- 7 minute video presentation (https://vimeo.com/366066646/eac953c0cc)
- · Transit X Handbook (transitx.com/transitxhandbook.pdf)
- Company profile (transitx.com/about.pdf)
- Other proposals (transitx.com/proposals)
- The process and templates for agreements (transitx.com/process)

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 MIT Campus through better transportation.

Sincerely,



Email: hello@transitx.com 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	7	km	4.5 miles
2	People (resident-equivalent) in region	24,000	resident-equivalen	t population
3	Route density ratio (route length to service area)	5.51		
4	Number of stops	70		
5	Triple-speed route length	-	km	
6	Water crossing route length		km	
7	Cost of fixed infrastructure	\$26,380,873		
8	per person	\$1,099		
9	Mode share of travel on Transit X (27% after first year)		after 10 years	
10	Distance traveled by passengers on Transit X, per year	19,459,613		12,086,716 miles
11	per day	53,314	km	33,114 miles
12	Daily potential energy generation with standard panels on tracks		MWh	
13	Sustainable energy use per day	0.4	MWh	1.0% of max capacity
14	Energy storage capital cost for 1 day(s) of supply at \$250 per kWh	\$90,370		
15	Size (rated power) of solar installation	84	KW	
16	Cost to generate sustainable energy (at \$1,000 per kW)	\$84,039		
17	Cost of buying sustainable energy at \$0.15 per kWh		per day	1% of OPEX
18	Daily passengers riding Transit X	19,460	customers	81% of the pop.
19	Distance per passenger per day	3	km	1.7 miles
20	Average distance per trip (assuming 3 trips per day)	1	km	0.6 miles
21	Single passenger fare for shared 1 km trip	\$0.51		
22	Passenger distance traveled during peak hour	10,663		6,623 miles
23	Breakeven	6.405	customers per day	(33% of expected and 30% ent to Transit X)
24	Boarding capacity			ur (129% of customers)
		;		1 /
25	Number of pode for peak demand	85	nada at 010/ .	nada ahara
25	Number of pods for peak demand		pods at 81% r	
26	Number of customers per pod	228.9	and 282 people	
26 27	Number of customers per pod Distance per pod per year	228.9 167,642	and 282 people km	per pod
26 27 28	Number of customers per pod Distance per pod per year Two-layer pod garage area (2% of route with side-parking)	228.9 167,642 94	and 282 people km m ²	per 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 (2% of route with side–parking) Cost of pods	228.9 167,642 94 \$552,500	and 282 people km m ² is \$18 per perso	per pod 0.2% of car parking n
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 26 27 28 29 30 31 Pr 33 34 35 	Number of customers per pod Distance per pod per year Two-layer pod garage area (2% of route with side–parking) Cost of pods Capital cost of energy generation and storage Coject Finances Total Project Cost Project cost per km	228.9 167,642 94 \$552,500 \$226,732 \$27,160,105 \$3,734,133	and 282 people km m ² is \$18 per perso is \$9 per person	per pod 0.2% of car parking n
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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 46 46 46 47 	Number of customers per pod Distance per pod per year Two-layer pod garage area (2% of route with side-parking) Cost of pods Cost of pods Capital cost of energy generation and storage roject Finances Total Project Cost per km Project cost per km Equity financing Debt financing Debt service (per year) Yearly fees and taxes (US\$60 per capita) OPEX Dobt service 1 per person Number of motor vehicles displaced Number of cars displaced – per person Operating costs per passenger-km	228.9 167,642 94 \$552,500 \$226,732 \$27,160,105 \$3,734,133 \$8,148,032 \$19,012,074 \$3,232,053 \$1,428,668 \$3,232,053 \$1,428,668 \$1,132 \$1,132 \$1,946 \$730 \$0.07	and 282 people km m ² is \$18 per person is \$9 per person per km motor vehicles km	per pod 0.2% of car parking n

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 (11 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	4		
16	Walking speed	4.9	km/h	3 mph
17	Width of convenient swath along track	0.16	km	0 mile
18	Fixed cost per km (track & posts)	\$2,790,000		
19	Water crossing: additional cost per km	\$8,370,000		
20	Triple-speed: additional cost per km	\$5,580,000		
21	Rate factor for water crossings or high-speed links.	2.2		
22	Average distance traveled per person per year	10,000	km	6.211 miles
~~~	(for trips under 1600 km)	,		0,211111165
23	Average distance per day per person		km	
24	Mode share % of people convenient to Transit X		at 5 min walk.	
25	Percentage of daily demand during peak hour	20%		
26	Maximum capacity per track	23,598		
27	Average dwell time during peak hour		seconds	
28	% of pods traveling on route with highest demand	18%		
29	Average speed of pod		km/h	45 mph
30	Average # of trips for a daily customer		per day	
31	Average passengers per pod during peak hours		passengers	
32	Average passengers per pod	1.4	passengers	
	Average discount per passenger	18%		
33	Maximum passengers per pod		passengers	
34	Empty pods: Percentage non-revenue	25%		
35	Ex-Factory cost per pod	\$5,000		
36	Worldwide Median Income per Household (US\$)	10,000		
37	Average number of residents per household	2.3		
38	Base fare per km	\$0.94		
39	(per mile)	\$1.51		
40	O&M as % of project cost	5%		
41	Percentage debt financed	70%		
42	Length of loan/debt		years	
43	Interest rate for debt	7%		
44	kg CO2 emissions per liter of gasoline	2.37		
45	Monetary value of 1 hour personal time (USD)	\$13.75		
46	Eat. roadway maintenance per year per km	\$51,000	-	
47	Area of one parking lot space		m ²	247 sf
48	Commercial income of land (annual)		per m ²	
49	Distance from roadway that is convenient	0.05	km	
50	Stops per km	10.0		
51	Boarding capacity per stop	360	pph	
52	Solar panel area per meter of track	2.0	1.5.4/1	
53	Cost of sustainable energy and storage		per kWh	
54	Global Horizontal Irradiance (GHI)		kWh/m²/day	
55	Cost to generate sustainable energy		per kW kWh	
56	Storage per column	40 23		44
57	Typical span Energy storage cost	==	per kWh	. 4
58	Energy storage capacity		days	
59	Area of parked pod	2.20	•	
60	Distance discount at max distance	40%		
61	Max distance discount	40 % 500	km	
62	Max usage discount at 10,000 km per capita	50%		
63 64	Shared Pod Discount	20%		
65	Shared Pod Compartment Discount	40%		
66	Mode share starting discount	67%		
00	mode share starting discount	07/0		

1,922	MTCO2-eq annually
\$1,360,139	annually
312	metric tons annually
49	hrs/person annually
-\$320	per person annually
1%	
12	annually
0	annually
44,757	m ²
0.5 to 2	С°
High	

#### Model Inputs (continued)

68	Name of region or project	MIT Campus, Cambri
69	Currency name	init campue, campi
70	Equal to US\$1	1
71	Sustainable energy/electricity generation & storage as	CAPEX
72	Land area of region (sq. km)	2
73	Number of residents in region	24,000
74	% travel within region	10%
75	% of land area served by roads	66%
76	Coverage: % of pop. convenient (1 min walk) to Transit X	90%
77	Annual median household income (US\$)	\$55,000
78	Convenient walk time to stop (min)	1
79	Triple-speed route length (km)	0
30	Water crossing route length (km)	0.0
31	Visitors per year	0
32	Average length of visit (days)	2
33	Solar production ratio	1.57
34	Regional Fare Factor	2
85	EPC costs & contingency	30%
86	Triple-speed (km/h)	242
87	Daily Passengers Adjustment	100%
38	Number of Stops Adjustment	100%
39	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 1 km trip	1	3
97	Fare/cost per km	\$0.94	\$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	minimums)
2	Total commercial land (estimated)	132,000 m ²	33 acres
3	Total commercial gov't revenue (US\$)	\$145,200	
4	TXCR (Transit X Commercial Rate)	\$1.10 per m ² (estimated)	
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.	\$11.84 per sf (estimated)	
6			
7	Private Easement Fees	For example	
8	4% of gross revenue	\$39.28 per route-meter	<b>\$11.98</b> per route-foot
9	Minimum per year	\$1.63 per route-meter	\$0.50 per route-foot
10	Transit X payment to Gove	rnment	
11	% of route on government easements	98% estimated	_
12	Total air-rights and local taxes	<b>\$1,405,810</b> per year	
	per resident	\$59	

\$11,891 per year

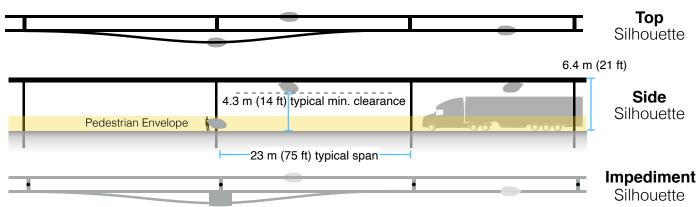
14 15

### ¹⁶ Other financial benefits to Government

with a minimum of

- 17 Less road maintenance from lower VMT
- ¹⁸ Public land made available from less parking and lanes
- 19 Reduced emergency and police services for road-related incidents
- ²⁰ Less investment needed in road-based infrastructure (charging stations, signals, BRT, etc)

## Footprint calculations for minimum fee



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

2       Track width       0.30 m       11.8 inches         3       Track height       0.60 m       23.6 inches         4       Post diameter       0.3 m       11.8 inches         6       Post oross section       0.07 m²       0.8 sf         6       Stop landing area       3.75 m²       40.4 sf         7      width       1.5 m       99.4 inches         8      length       2.5 m       98.4 inches         9       Ramp length       21 m       68.9 feet         10       Typical Span       23 m       75.5 feet         11< Number of posts per unit length       43.5 poles per km       70.0 poles per mile         12       Post height       6 m       19.7 feet         13       Single track       1022.1 m²       10998 sf        Area of Side Silhouette       678.3 m²       7298 sf        Area of Top Silhouette       30.7 m²       331 sf         14       Dual track       1322.1 m²       14226 sf        Area of Top Silhouette       613.1 m²       6597 sf        Area of Top Silhouette       25.2 m²       271 sf        Area of Top Silhouette       25.2 m²       271 sf        Area of	1	Footprint Calculations	Metric	Imperial	
Post diameter         0.3 m         11.8 inches           Post cross section         0.07 m²         0.8 sf           Stop landing area         3.75 m²         40.4 sf          width         1.5 m         59.1 inches          length         2.5 m         98.4 inches           Ramp length         21 m         68.9 feet           Typical Span         23 m         75.5 feet           Number of posts per unit length         43.5 poles per km         70.0 poles per mile           Post rack         1022.1 m²         10998 sf          Area of Side Silhouette         678.3 m²         7298 sf          Area of Top Silhouette         313.1 m²         3369 sf          Area of Side Silhouette         678.3 m²         7298 sf          Area of Top Silhouette         678.3 m²         7298 sf          Area of Side Silhouette         678.3 m²         7298 sf          Area of Side Silhouette         132.1 m²	2	Track width	<u>0.30</u> m	11.8 inches	
5       Post cross section       0.07 m²       0.8 sf         6       Stop landing area       3.75 m²       40.4 sf         6       Stop landing area       3.75 m²       40.4 sf         7      width       1.5 m       59.1 inches         8      length       2.5 m       98.4 inches         9       Ramp length       21 m       68.9 feet         10       Typical Span       23 m       75.5 feet         11       Number of posts per unit length       43.5 poles per km       70.0 poles per mile         12       Post height       6 m       7298 sf      Area of Side Silhouette       678.3 m²       7298 sf         13      Area of Side Silhouette       678.3 m²       7298 sf      Area of Top Silhouette       613.1 m²       6597 sf         14      Area of Side Silhouette       678.3 m²       7298 sf      Area of Top Silhouette       613.1 m²       6597 sf         12      Area of Side Silhouette       678.3 m²       298 sf      Area of Top Silhouette       30.7 m²       331 sf         14      Area of Top Silhouette       19.4 m²       208 sf      Area of Top Silhouette       19.4 m²       208 sf         15      Area of Side Silhou	3	Track height	<u>0.60</u> m	23.6 inches	
6       Stop landing area       3.75 m²       40.4 sf         7      width       1.5 m       59.1 inches         9       Ramp length       2.5 m       98.4 inches         9       Ramp length       21 m       68.9 feet         10       Typical Span       23 m       75.5 feet         11       Number of posts per unit length       43.5 poles per km       70.0 poles per mile         12       Post height       6 m       19.7 feet         13       1022.1 m²       10998 sf       10998 sf         15      Area of Side Silhouette       678.3 m²       7298 sf         16      Area of Top Silhouette       30.7 m²       331 sf         17      Impediment Area (adjusted)       30.7 m²       328 sf         18       Dual track       1322.1 m²       14226 sf        Area of Top Silhouette       678.3 m²       7298 sf        Impediment Area (adjusted)       30.7 m²       331 sf         19       Dual track       1322.1 m²       883 sf        Area of Side Silhouette       678.3 m²       7298 sf        Impediment Area (adjusted)       30.7 m²       201 sf        Area of Side Silhouette       25.2 m²       <	4	Post diameter	<u>0.3</u> m	11.8 inches	
1kingth1.5 m59.1 incheslength2.5 m98.4 inchesRamplength21 m68.9 feet10Typical Span23 m75.5 feet11Number of posts per unit length43.5 poles per km70.0 poles per mile12Post height6 m19.7 feet13Single track1022.1 m²10998 sf14Single track1022.1 m²10998 sf15Area of Side Silhouette678.3 m²7298 sf16Area of Top Silhouette313.1 m²3369 sf17Impediment Area (adjusted)30.7 m²331 sf1820Larck1322.1 m²14226 sf21Area of Side Silhouette678.3 m²7298 sf22Area of Side Silhouette678.3 m²7298 sf23Area of Top Silhouette613.1 m²6597 sf24Stop82.1 m²883 sf25Area of Top Silhouette25.2 m²271 sf24Area of Top Silhouette19.4 m²208 sf25Area of Top Silhouette37.5 m²404 sf26Impediment Area (adjusted)37.5 m²404 sf28Average area per unit length1,486 m² per route-km25,793 sf per route-mile36% gross revenue for government on private prop.1%%%37% gross revenue for government on private prop.1%%38%4%% <td>5</td> <td>Post cross section</td> <td><u>0.07</u> m²</td> <td>0.8 sf</td> <td></td>	5	Post cross section	<u>0.07</u> m ²	0.8 sf	
alength       2.5 m       98.4 inches         Bamp length       21 m       68.9 feet         Typical Span       23 m       75.5 feet         Number of posts per unit length       43.5 poles per km       70.0 poles per mile         Post height       6 m       19.7 feet         Single track       1022.1 m²       10998 sf        Area of Side Silhouette       678.3 m²       7298 sf        Area of Top Silhouette       313.1 m²       3369 sf        Area of Side Silhouette       678.3 m²       7298 sf        Area of Side Silhouette       678.3 m²       7298 sf        Area of Side Silhouette       613.1 m²       3369 sf        Area of Side Silhouette       613.1 m²       6597 sf        Area of Top Silhouette       613.1 m²       883 sf        Area of Top Silhouette       25.2 m²       271 sf        Area of Top Silhouette       19.4 m²       208 sf        Area of Top Silhouette	6	Stop landing area	<u>3.75</u> m ²	40.4 sf	
9       Ramp length       21 m       68.9 feet         10       Typical Span       23 m       75.5 feet         11       Number of posts per unit length       43.5 poles per km       70.0 poles per mile         12       Post height       6 m       19.7 feet         13       6 m       19.7 feet       10998 sf         14       Single track       1022.1 m²       10998 sf         15      Area of Side Silhouette       678.3 m²       7298 sf         16      Area of Top Silhouette       313.1 m²       3369 sf         17      Impediment Area (adjusted)       30.7 m²       331 sf         19       Dual track       1322.1 m²       14226 sf        Area of Side Silhouette       678.3 m²       7298 sf        Area of Top Silhouette       613.1 m²       6597 sf        Area of Side Silhouette       25.2 m²       271 sf        Area of Side Silhouette       25.2 m²       271 sf        Area of Top Silhouette       19.4 m²       208 sf        Area of Top Silhouette       19.4 m²       208 sf        Area of Top Silhouette       100 %       37.5 m²       404 sf         28       Stops with dedicated landing areas       <	7	width	<u>1.5</u> m	59.1 inches	
10       Typical Span       23 m       75.5 feet         11       Number of posts per unit length       43.5 poles per km       70.0 poles per mile         12       Post height       6 m       19.7 feet         14       Single track       1022.1 m²       10998 sf         15      Area of Side Silhouette       678.3 m²       7298 sf         16      Area of Side Silhouette       678.3 m²       7298 sf         17      Impediment Area (adjusted)       30.7 m²       331 sf         19       Dual track       1322.1 m²       14226 sf        Area of Side Silhouette       678.3 m²       7298 sf        Area of Top Silhouette       613.1 m²       6597 sf        Impediment Area (adjusted)       30.7 m²       331 sf         24       Stop       82.1 m²       883 sf         25      Area of Top Silhouette       25.2 m²       271 sf        Area of Top Silhouette       19.4 m²       208 sf        Impediment Area (adjusted)       37.5 m²       404 sf         26      Area of Top Silhouette       19.4 m²       25.793 sf per route-mile         36       Yop sos revenue for government on private prop.       1%       9%	8	length	<u>2.5</u> m	98.4 inches	
Number of posts per unit length         43.5 poles per km         70.0 poles per mile           Post height         6 m         19.7 feet           Single track         1022.1 m²         10998 sf          Area of Side Silhouette         678.3 m²         7298 sf          Area of Top Silhouette         313.1 m²         3369 sf          Area of Side Silhouette         678.3 m²         7298 sf          Area of Side Silhouette         30.7 m²         331 sf           Impediment Area (adjusted)         30.7 m²         404 sf           Impediment Area (adjusted)         37.5 m²         404 sf           Impediment Area (adjusted)         32.5 stops per km         3.2 stops per mile           More of Top Silhouette         100%         32.5 stops per mile           More of dual track         100%         32.5 stops per mile	9	Ramp length		68.9 feet	
12       Post height       6 m       19.7 feet         13       1022.1 m²       10998 sf         14       Single track       1022.1 m²       10998 sf         15      Area of Side Silhouette       678.3 m²       7298 sf         16      Area of Top Silhouette       313.1 m²       3369 sf         17      Impediment Area (adjusted)       30.7 m²       331 sf         18       1322.1 m²       14226 sf         20      Area of Side Silhouette       678.3 m²       7298 sf         21      Area of Top Silhouette       678.3 m²       7298 sf         22      Area of Top Silhouette       613.1 m²       6597 sf         23      Impediment Area (adjusted)       30.7 m²       331 sf         24       Stop       82.1 m²       883 sf         25      Area of Side Silhouette       19.4 m²       208 sf         26      Area of Top Silhouette       19.4 m²       208 sf         27      Impediment Area (adjusted)       37.5 m²       404 sf         28       Stops with dedicated landing areas       2 stops per km       3.2 stops per mile         % of dual track       100%       37.5 m² per route-km       25,793 sf per route-mile </td <td>10</td> <td></td> <td></td> <td></td> <td></td>	10				
13       Single track       1022.1 m²       10998 sf         14       Single track       1022.1 m²       10998 sf         15      Area of Side Silhouette       678.3 m²       7298 sf         16      Area of Top Silhouette       313.1 m²       3369 sf         17      Impediment Area (adjusted)       30.7 m²       331 sf         19       Dual track       1322.1 m²       14226 sf         10      Area of Side Silhouette       678.3 m²       7298 sf         11      Area of Top Silhouette       613.1 m²       6597 sf         11      Area of Side Silhouette       613.1 m²       6597 sf         11      Impediment Area (adjusted)       30.7 m²       331 sf         12      Impediment Area (adjusted)       30.7 m²       331 sf         13      Area of Side Silhouette       25.2 m²       271 sf         11      Area of Top Silhouette       19.4 m²       208 sf         12      Impediment Area (adjusted)       37.5 m²       404 sf         13      Impediment Area (adjusted)       37.5 m²       404 sf         14      Impediment Area (adjusted)       37.5 m²       404 sf         15       Moerage area per uni	11	Number of posts per unit length	<u>43.5</u> poles p	er km 70.0 poles per mile	
14       Single track       1022.1 m²       10998 sf         15      Area of Side Silhouette       678.3 m²       7298 sf         16      Area of Top Silhouette       313.1 m²       3369 sf         17      Impediment Area (adjusted)       30.7 m²       331 sf         18       1022.1 m²       14226 sf         19       Dual track       1322.1 m²       14226 sf         20      Area of Side Silhouette       678.3 m²       7298 sf         21      Area of Top Silhouette       613.1 m²       6597 sf         22      Impediment Area (adjusted)       30.7 m²       31 sf         23      Impediment Area (adjusted)       30.7 m²       33 sf         24       Stop       82.1 m²       883 sf         25      Area of Top Silhouette       25.2 m²       271 sf         26      Area of Top Silhouette       19.4 m²       208 sf         27      Impediment Area (adjusted)       37.5 m²       404 sf         28       Stops with dedicated landing areas       2 stops per km       3.2 stops per mile         9       % of dual track       100%       37.5 m²       404 sf         39       Yof dual track       100%	12	Post height	<u>6</u> m	19.7 feet	
15      Area of Side Silhouette       678.3 m²       7298 sf         16      Area of Top Silhouette       313.1 m²       3369 sf         17      Impediment Area (adjusted)       30.7 m²       331 sf         19       Dual track       1322.1 m²       14226 sf         20      Area of Side Silhouette       678.3 m²       7298 sf         21      Area of Top Silhouette       678.3 m²       7298 sf         22      Area of Top Silhouette       613.1 m²       6597 sf         23      Impediment Area (adjusted)       30.7 m²       331 sf         24       Stop       82.1 m²       883 sf         25      Area of Side Silhouette       25.2 m²       271 sf         26      Area of Top Silhouette       19.4 m²       208 sf         27      Impediment Area (adjusted)       37.5 m²       404 sf         28       Stops with dedicated landing areas       2 stops per km       3.2 stops per mile         30       % of dual track       100%       37.5 m²       404 sf         29       Stops with dedicated landing areas       2 stops per route-km       25,793 sf per route-mile         30       % of dual track       100%       37.5 m²       404 sf<	13				
15      Area of Side Silhouette       678.3 m²       7298 sf         16      Area of Top Silhouette       313.1 m²       3369 sf         17      Impediment Area (adjusted)       30.7 m²       331 sf         19       Dual track       1322.1 m²       14226 sf         20      Area of Side Silhouette       678.3 m²       7298 sf         21      Area of Top Silhouette       678.3 m²       7298 sf         22      Area of Top Silhouette       613.1 m²       6597 sf         23      Impediment Area (adjusted)       30.7 m²       331 sf         24       Stop       82.1 m²       883 sf         25      Area of Side Silhouette       25.2 m²       271 sf         26      Area of Top Silhouette       19.4 m²       208 sf         27      Impediment Area (adjusted)       37.5 m²       404 sf         28       Stops with dedicated landing areas       2 stops per km       3.2 stops per mile         30       % of dual track       100%       37.5 m²       404 sf         29       Stops with dedicated landing areas       2 stops per route-km       25,793 sf per route-mile         30       % of dual track       100%       37.5 m²       404 sf<	14	Single track	1022.1 m ²	10998 sf	
17      Impediment Area (adjusted)       30.7 m²       331 sf         18       1322.1 m²       14226 sf         19       Dual track       1322.1 m²       14226 sf         20      Area of Side Silhouette       678.3 m²       7298 sf         21      Area of Top Silhouette       613.1 m²       6597 sf         22      Impediment Area (adjusted)       30.7 m²       331 sf         23      Area of Side Silhouette       25.2 m²       271 sf         24       Stop       82.1 m²       883 sf         25      Area of Top Silhouette       19.4 m²       208 sf         26      Impediment Area (adjusted)       37.5 m²       404 sf         28       Stops with dedicated landing areas       2 stops per km       3.2 stops per mile         36       of dual track       100%       3       3.2 stops per mile         37       4Verage area per unit length       1,486 m² per route-km       25,793 sf per route-mile         38       5        3       3       5         38       % gross revenue for government on private prop.       1%       3%       3%	15		678.3 m ²	7298 sf	
17      Impediment Area (adjusted)       30.7 m²       331 sf         18       1322.1 m²       14226 sf         19       Dual track       1322.1 m²       14226 sf         20      Area of Side Silhouette       678.3 m²       7298 sf         21      Area of Top Silhouette       613.1 m²       6597 sf         22      Impediment Area (adjusted)       30.7 m²       331 sf         23      Area of Side Silhouette       25.2 m²       271 sf         24       Stop       82.1 m²       883 sf         25      Area of Top Silhouette       19.4 m²       208 sf         26      Impediment Area (adjusted)       37.5 m²       404 sf         28       Stops with dedicated landing areas       2 stops per km       3.2 stops per mile         36       of dual track       100%       3       3.2 stops per mile         37       4Verage area per unit length       1,486 m² per route-km       25,793 sf per route-mile         38       5        3       3       5         38       % gross revenue for government on private prop.       1%       3%       3%	16	Area of Top Silhouette	313.1 m ²	3369 sf	
18         19       Dual track       1322.1 m²       14226 sf         20      Area of Side Silhouette       678.3 m²       7298 sf         21      Area of Top Silhouette       613.1 m²       6597 sf         22      Impediment Area (adjusted)       30.7 m²       331 sf         23       3007 m²       883 sf       351         24       Stop       82.1 m²       883 sf         25      Area of Side Silhouette       25.2 m²       271 sf         26      Area of Top Silhouette       19.4 m²       208 sf         27      Impediment Area (adjusted)       37.5 m²       404 sf         28       Stops with dedicated landing areas       2 stops per km       3.2 stops per mile         30      Impediment Area (adjusted)       37.5 m²       404 sf         29       Stops with dedicated landing areas       2 stops per km       3.2 stops per mile         30      Impediment Area       100%       37.5 m²       404 sf         31      Impediment Area       100%       37.5 m²       57.93 sf per route-mile         32       Average area per unit length       1,486 m² per route-km       25,793 sf per route-mile         33       Marcia area area	17				
20Area of Side Silhouette678.3 m²7298 sf21Area of Top Silhouette613.1 m²6597 sf22Impediment Area (adjusted)30.7 m²331 sf23Impediment Area (adjusted)30.7 m²331 sf24 <b>Stop</b> 82.1 m²883 sf25Area of Side Silhouette25.2 m²271 sf26Area of Top Silhouette19.4 m²208 sf27Impediment Area (adjusted)37.5 m²404 sf2829Stops with dedicated landing areas2 stops per km3.2 stops per mile30% of dual track100%37.5 m²404 sf31Impediment Area (adjusted)37.5 m²404 sf32Average area per unit length1,486 m² per route-km25,793 sf per route-mile33Impediment on private prop.1%5%5%	18				
20Area of Side Silhouette678.3 m²7298 sf21Area of Top Silhouette613.1 m²6597 sf22Impediment Area (adjusted)30.7 m²331 sf23Impediment Area (adjusted)30.7 m²331 sf24 <b>Stop</b> 82.1 m²883 sf25Area of Side Silhouette25.2 m²271 sf26Area of Top Silhouette19.4 m²208 sf27Impediment Area (adjusted)37.5 m²404 sf2829Stops with dedicated landing areas2 stops per km3.2 stops per mile30% of dual track100%37.5 m²404 sf31Impediment Area (adjusted)37.5 m²404 sf32Average area per unit length1,486 m² per route-km25,793 sf per route-mile33Impediment on private prop.1%5%5%	19	Dual track	1322.1 m ²	14226 sf	
21      Area of Top Silhouette       613.1 m²       6597 sf         22      Impediment Area (adjusted)       30.7 m²       331 sf         23      Impediment Area (adjusted)       30.7 m²       331 sf         24       Stop       82.1 m²       883 sf         25      Area of Side Silhouette       25.2 m²       271 sf         26      Area of Top Silhouette       19.4 m²       208 sf         27      Impediment Area (adjusted)       37.5 m²       404 sf         28      Impediment Area (adjusted)       37.5 m²       404 sf         29       Stops with dedicated landing areas       2 stops per km       3.2 stops per mile         30       % of dual track       100%       37.5 m²       25,793 sf per route-mile         31      Impediment Area per unit length       1,486 m² per route-km       25,793 sf per route-mile         32       Average area per unit length       1,486 m² per route-km       25,793 sf per route-mile         33             34       Contract values           35       % gross revenue for government on private prop.       1%         36       % gross revenue for government easement <td>20</td> <td></td> <td></td> <td></td> <td></td>	20				
22      Impediment Area (adjusted)       30.7 m²       331 sf         24       Stop       82.1 m²       883 sf         25      Area of Side Silhouette       25.2 m²       271 sf         26      Area of Top Silhouette       19.4 m²       208 sf         27      Impediment Area (adjusted)       37.5 m²       404 sf         28       Stops with dedicated landing areas       2 stops per km       3.2 stops per mile         9       Stops dual track       100%       37.5 m²       404 sf         29       Stops with dedicated landing areas       2 stops per km       3.2 stops per mile         9       % of dual track       100%       37.5 m²       404 sf         31       32       Average area per unit length       1,486 m² per route-km       25,793 sf per route-mile         33       34       Contract values       34       34       34         34       Contract values       1%       36       36       37.5 m²         35       % gross revenue for government on private prop.       1%       36       36         36       % gross revenue for government easement       4%       37       36	21			-	
23       Stop       82.1 m²       883 sf         25      Area of Side Silhouette       25.2 m²       271 sf         26      Area of Top Silhouette       19.4 m²       208 sf         27      Impediment Area (adjusted)       37.5 m²       404 sf         28       29       Stops with dedicated landing areas       2 stops per km       3.2 stops per mile         30       % of dual track       100%       37.5 m²       404 sf         31					
25Area of Side Silhouette25.2 m²271 sf26Area of Top Silhouette19.4 m²208 sf27Impediment Area (adjusted)37.5 m²404 sf282Stops with dedicated landing areas2 stops per km3.2 stops per mile30% of dual track100%37.5 m²3.2 stops per mile3132Average area per unit length1,486 m² per route-km25,793 sf per route-mile3334Contract values3535% gross revenue for government on private prop.1%36% gross revenue for government easement4%37% gross revenue for government easement5%					
25Area of Side Silhouette25.2 m²271 sf26Area of Top Silhouette19.4 m²208 sf27Impediment Area (adjusted)37.5 m²404 sf282Stops with dedicated landing areas2 stops per km3.2 stops per mile30% of dual track100%37.5 m²3.2 stops per mile3132Average area per unit length1,486 m² per route-km25,793 sf per route-mile3334Contract values3535% gross revenue for government on private prop.1%36% gross revenue for government easement4%37% gross revenue for government easement5%	24	Stop	82.1 m ²	883 sf	
26      Area of Top Silhouette       19.4 m²       208 sf         27      Impediment Area (adjusted)       37.5 m²       404 sf         28       2       Stops with dedicated landing areas       2 stops per km       3.2 stops per mile         30       % of dual track       100%       31         31       32       Average area per unit length       1,486 m² per route-km       25,793 sf per route-mile         32       Average area per unit length       1,486 m² per route-km       25,793 sf per route-mile         33       34       Contract values       35         34       Contract values       1%         35       % gross revenue for government on private prop.       1%         36       % gross revenue for private easement       4%         37       % gross revenue for government easement       5%	25				
27      Impediment Area (adjusted)       37.5 m²       404 sf         28      Impediment Area (adjusted)       37.5 m²       404 sf         29       Stops with dedicated landing areas       2 stops per km       3.2 stops per mile         30       % of dual track       100%       37.5 m²       404 sf         31       100%       32 stops per km       3.2 stops per mile         32       Average area per unit length       1,486 m² per route-km       25,793 sf per route-mile         33       33       33       34       Contract values         34       Contract values       1%       36       36 gross revenue for government on private prop.         36       % gross revenue for private easement       4%       37       4%         37       % gross revenue for government easement       5%       5%	26				
<ul> <li>28</li> <li>29 Stops with dedicated landing areas</li> <li>2 stops per km</li> <li>3.2 stops per mile</li> <li>30 % of dual track</li> <li>100%</li> <li>31</li> <li>32 Average area per unit length</li> <li>1,486 m² per route-km</li> <li>25,793 sf per route-mile</li> <li>33</li> <li>34 Contract values</li> <li>35 % gross revenue for government on private prop.</li> <li>1%</li> <li>6% gross revenue for government easement</li> <li>4%</li> <li>37 % gross revenue for government easement</li> </ul>	27		$37.5 m^{2}$	404 of	
29       Stops with dedicated landing areas       2       stops per km       3.2       stops per mile         30       % of dual track       100%       100%         31		impediment Area (adjusted)	57.5 m-	404 51	
30       % of dual track       100%         31       31         32       Average area per unit length       1,486 m² per route-km       25,793 sf per route-mile         33       33         34       Contract values         35       % gross revenue for government on private prop.       1%         36       % gross revenue for government easement       4%         37       % gross revenue for government easement       5%					
31       1,486 m² per route-km       25,793 sf per route-mile         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%				er km 3.2 stops per mile	
32       Average area per unit length       1,486 m² per route-km       25,793 sf per route-mile         33       34       Contract values       35       % gross revenue for government on private prop.       1%         36       % gross revenue for private easement       4%       37       5%		% of dual track	100%		
33         34         Contract values         35       % gross revenue for government on private prop.         36       % gross revenue for private easement         37       % gross revenue for government easement         5%	31				
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%	32	Average area per unit length	1,486 m² per	route-km 25,793 sf per route-mile	•
35% gross revenue for government on private prop.1%36% gross revenue for private easement4%37% gross revenue for government easement5%	33				
36% gross revenue for private easement4%37% gross revenue for government easement5%	34	Contract values			
36% gross revenue for private easement4%37% gross revenue for government easement5%	35	% gross revenue for government on private prop.	1%		
37 % gross revenue for government easement 5%	36		4%		
	37				
	38				



Summary

## **Fair Fare Formula**

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

At 0.91 USD per mile, a typical commute on Transit X is 17% less than public transit and 74% less than a Taxi.*

	Trip Length														
All I	prices in	USD	)	1 mile					6 mile				25	mile	
Transit X				2 m	<b>1</b> _ [•] to 1 nin., 3.		ter			<b>5.5</b> to 9.	32	ster	te	<b>1.35</b> <b>36.38</b> ., 3.4x faste	٢
	blic tra averag				6.3	30			1	0.	03	3	1	4.70	
odes	Тахі			<b>8.74</b> 2 to 6 minutes				<b>38.06</b> 8 to 30 minutes				<b>48.00</b> 120 minutes	\$		
Common public modes	Uber/Lyft			<b>6.65</b> 2 to 6 minutes				<b>27.40</b> 8 to 30 minutes				<b>05.20</b> 120 minutes	6		
non pi	Public Bus			<b>5.07</b> 3 to 12 minutes				<b>5.07</b> 15 to 60 minutes				<b>7.78</b> 240 minutes	\$		
Com	Train			21	<b>7.6</b> to 12 r	<b>51</b> ninute	S		8 to	<b>8.9</b> 60 m	-	es		<b>14.04</b> 240 minutes	5
Personal car			2 t	<b>6.9</b>	<b>99</b> ninute	es		<b>2</b> 8 to 3	<b>1</b> . 30 m				<b>5.62</b>	es	
Travel mode	·	Low Speed km/h	High speed km/h	Base	Includ es km	Over per-km		Max Dist. km	Time cost per min		sharo 70%	-	shares, s	bers on mo speeds, and h estimates	cos
Taxi	30	20	80	5.07	1		0.5		2.26	5%	4%	1%			
Uber/Lyft Public Bus	30 s 15	20 10	80 40	4.06 5.07	1 20	2.03 0.14	0.5	100 50	1.13 0	10%	10% 50%				
	5 13	10	40	5.07	20	0.14	0.5	50	U	00%	50%	40%			

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.

50

0.17 2 100

1.69 0.1 400

0.56 0.1

0

0

0.23

35% 36% 57%

30

72

30

10

72

20

7.61

3.38

0

2

0

0

80

72

80

Train

Transit X

Personal car



## **Fair Fare Formula**

## Fare rates are updated annually using this formula

	Name	Value	Units	Description of the value or model input	
1	GlobalIncome	10,000	USD	Global median household income. Updated annually based on most recent standard published data.	
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	0.09	USD/km	Global rate: Globalincome * PercentincomeForTransport / AliTravel	
5	IncomeFirst	\$55,000	USD	Median household income at first stop (per person per day). External input. Based on reliable public data source updated annually.	
6	IncomeDest	\$82,500	USD	Median household income at destination per trip. External input. Based on reliable public data updated annually.	
7	RegionalRate	0.48	USD/km	Regional rate based on median income: MedianIncomeFirst * PercentIncomeForTransport / AllTravel	
8	UnderIncomeRate	0.00	USD/km	Under global income adjustment: if (RegionalRate < GlobalRate, GlobalRate - RegionalRate, 0)	
9	NominalRate	0.48	USD/km	Nominal rate: RegionalRate + UnderIncomeRate	
10	RegionalFactor	2.00		Regional Fare Factor. Negotiated upfront to make network financially viable.	
11	AdjustedRate	0.96	USD/km	Regional adjusted rate: NominalRate * RegionalFactor	
13	Population	24,000		Population in region. Updated annually based on trusted public data source.	
12	UsageMaxDiscount	50%		Fare Discount when Transit X travel per household equals AllTravel. Global constant.	
14	PassengerTravel	19,459,613	km	Total passenger distance traveled previous calendar year. Based on expected mode share for first 3 years. Based on actual passenger trips. Audited.	
15	ModeShare	4%		Percent of Total Travel Per Capita on Transit X: PassengerTravel / (Population x AllTravel)	
16	BaseRate	0.94	USD/km	Base rate for single-passenger pod (without discounts) (1 - UsageMaxDiscount x min(1,ModeShare)) x AdjustedRate	
17	SpecialRateFactor	2.20		Rate factor for water crossings or high-speed links. Global constant.	
18	SpecialBaseRate	2.07	USD/km	Base rate for high-speed travel or water crossings: BaseRate * SpecialRateFactor	
19	DistanceDiscount	40%		Distance discount at max distance. Global constant.	
20	MaxDistanceDiscou	500	km	Max distance discount. Global constant.	
	nt DistanceDiscountPe			Discount amount per km:	
21	rKm	0.000752	USD/km	BaseRate x DistanceDiscount / MaxDistanceDiscount	
22	SeniorDiscount	20%		Senior discount set according to local regulations	
23	StudentDiscount	20%		Student discount set according to local regulations	
0.4	DisabilityDiscount DiscountBaseRate	20% <b>0.75</b>		Disability discount set according to local regulations	
24 25	SharedPodDiscount	20%	USD/km	Discounted base rate: BaseRate x (1 - SeniorDiscount) Discount for requesting a shared pod. 15% minimum and 30% maximum.	
26	SharedPodRate	<b>0.75</b>	USD/km	Rate for a shared pod: BaseRate x (1 - SharedPodDiscount)	
	SharedCompartment		USD/KIII	Discount for requesting a shared compartment. 25% minimum and 40% maximum. At least 10	
<1	Discount	40%		percentage points higher than SharedPodDiscount.	
28	SharedCompartment Rate	0.56	USD/km	Rate for shared compartment BaseRate x (1 - SharedCompartmentDiscount)	
29	SingleOccupancyMa xDistance	0.64	USD/km	Rate for 500 km in single-passenger pod.	
30	Senior + SharedCompartment Rate	0.27	USD/km	Rate for a Senior taking a 500 km trip in a shared compartment. BaseRate x (1 - SeniorDiscountAmount) x (1 - SharedCompartmentDiscount) x (1 - MaxDistanceDiscount)	
31	50PctIncomeAtDest	25%		% Higher fare rate if Destination has 50% higher median income than First (IncomeDest / IncomeFirst - 1) / 2	
32	DistanceBase	14,400,113	km	Passenger distance under base fare. Audited value from operational data.	
33	PercentBase	74%		Percent of passenger distance under base fare: DistanceBase / PassengerTravel	
34	BaseRevenue	11,089,275	USD	Annual revenue from all travel under base rate. Audited value from operational data.	
35	AverageDiscount	18%		Average fare discount from Base Rate: 1 - (BaseRevenue / (DistanceDase x BaseRate))	
36	MarketFactor	1.0		Market rate factor. Negotiated value for setting ratio of AverageDiscount	
37	MarketRateCap	18%		Cap on passenger travel distance at market rate: AverageDiscount x MarketFactor	
38	MarketTravelCap	2,598,764	km	Cap on passenger travel distance at market rate: DistanceBase x MarketRateCap	

### **Project Summary**

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

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

Project equity US\$8 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 \$1,405,810 per year

Benefits to society and Extremely high environment

Estimated return 34% average IRR at 5 yrs 42% average IRR at 10 yrs

Financials (US\$ in millions)	Year 1	Total Years 1-12
Gross Revenues	9	273
Taxes and fees	0	14
Debt service	\$1	\$15

#### ESG (Environmental, Social, Governance) Benefits

Clean Energy	yes	Improve Resiliency	yes
Energy security	yes	Sustainable	yes
Zero Emissions	yes	Equitable	yes
Zero GHG	yes	<b>Recyclable Materials</b>	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

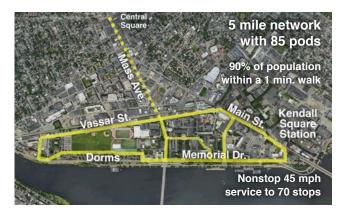




Transit X presents a preliminary proposal for a sustainable micro-road network — a fleet of automated electric vehicles (pods) for passengers and freight on a local and regional podway providing equitable public transportation for

#### MIT Campus, Cambridge, MA

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-road 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
<b>Operations &amp; Maint</b>	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)	7		
Starting number of pods	28		
Projected revenue growth	15%		
Project Cost (Privately funded)	\$27,160,105		
% Debt financed	70%		
Debt	\$19,012,074		
Equity	\$8,148,032		
Debt payment (per year)	\$1,330,845		

#### Travel per year per pod (km) 167,642

- Revenue per vehicle-km (US\$) 2.01
  - 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

	Years 0	1	2	3	4	5	6	7	8	9	10	11	12
Revenue	0	9,412,403	10,824,264	12,447,903	14,315,089	16,462,352	18,931,705	21,771,460	25,037,179	28,792,756	33,111,670	38,078,420	43,790,183
5% RoW÷tax÷fee	0%	470,620	541,213	622,395	715,754	823,118	946,585	1,088,573	1,251,859	1,439,638	1,655,583	1,903,921	2,189,509
Debt service	0	\$1,330,845	\$1,330,845	\$1,330,845	\$1,330,845	\$1,330,845	\$1,330,845	\$1,330,845	\$1,330,845	\$1,330,845	\$1,330,845	\$1,330,845	\$1,330,845

Investor share	0	5,064,875	4,726,065	1,760,647	1,896,046	2,051,754	2,230,819	2,436,744	2,673,558	2,945,893	3,259,079	3,619,243	4,033,431
Investor share (%)		90%	71%	22%	21%	19%	18%	17%	16%	15%	14%	14%	13%
Share / Orig Capital	0%	62%	58%	22%	23%	25%	27%	30%	33%	36%	40%	44%	50%
IRR to date	loss	(38%)	13%	23%	30%	34%	37%	39%	41%	42%	42%	43%	43%

#### **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 speak only as of the date made. Except as required by law, Transit X undertakes no obligation to update any forward looking statement to reflect events or circumstances after the date on which it is made or to reflect the occurrence of anticipated or unanticipated events or circumstances. These materials and documents 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\$)	\$55,000
2	CAPEX	
3	Average gross CAPEX salary (% of median HH)	125%
4	Average gross CAPEX salary	\$68,750
5	% of CAPEX as salary	15%
6	Years of CAPEX	2
7	# of CAPEX jobs	30
8	% of jobs that are manufacturing vs. construction	75%
9	Manufacturing jobs	22
10	Construction jobs	7
11	OPEX	
12	Average gross OPEX salary (% of median HH)	115%
13	Average gross OPEX salary	\$63,250
14	% of OPEX as salary	30%
15	<b>Operations and Maintenance jobs</b>	6
16	Indirect job creation factor	^{5%}