

estboroud



Transit X presents a preliminary proposal for a privately-financed, solar-powered micro-rail network — a fleet of automated electric vehicles (pods) for passengers and freight on a local and regional podway providing public transportation for

Hopkington, MA

This proposal is downloadable at transitx.com/proposals/Transit X for Hopkington,MA.pdf

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

A 24-page companion Transit X Handbook is available at transitx.com/transitxhandbook.pdf

10 mile network with 286 pods

90% of population within a 8 min. walk

Nonstop 45 mph service to 40 stops



Transit X proposes to build and operate a green, privately-financed micro-rail podway to carry passengers and freight for Hopkington 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

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.

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).

No public funding

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 financed by investment banks and private equity firms.

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 45 kg (100 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

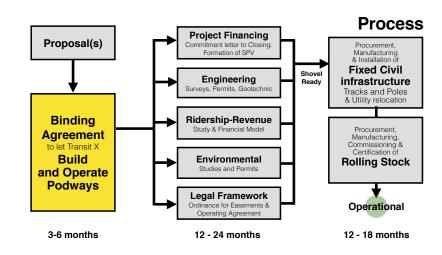
Not only does Transit X not require public financing, but the government and private easement owners receive 4-5% of gross revenue, which would be US\$2 million per year average over the first 10 years.

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.

In parallel, we could refine the routes and meet with project stakeholders.

Other Resources

The links below provide general information about Transit X:

- One minute video overview (transitx.com/video)
- <u>Transit X Handbook (transitx.com/transitxhandbook.pdf</u>)
- · 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 (transitx.com/process/resolution.html)
- · 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 Hopkington through better transportation.

Sincerely,



Email: rodneydixon@transitx.com or hello@transitx.com Telephone: +1 818-855-4106 (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	17	km	10.3 miles
2	People (resident-equivalent) in region	15,000	resident-equivalent	population
3	Route density ratio (route length to service area)	0.69		
4	Number of stops	40		
5	Triple-speed route length	-	km	
6	Water crossing route length		km	
7	Cost of fixed infrastructure	\$60,156,386		
8	per person	\$4,010		
9	Mode share of travel on Transit X (24% after first year)		after 10 years	40 042 060 miles
10	Distance traveled by passengers on Transit X, per year	65,757,339		40,843,068 miles
11	per day	180,157		111,899 miles
12	Daily potential energy generation with standard panels on tracks	127.4		1.0% of max capacity
13 14	Sustainable energy use per day		MWh	1.0 % Of max capacity
14	Energy storage capital cost for 1 day(s) of supply at \$250 per kWh	\$305,377 284	KM	
16	Size (rated power) of solar installation Cost to generate sustainable energy (at \$1,000 per kW)	284 \$283,981		
17	Cost of buying sustainable energy at \$0.15 per kWh		per day	2% of OPEX
18	Daily passengers riding Transit X		customers	73% of the pop.
19	Distance per passenger per day		km	10.2 miles
20	Average distance per trip (assuming 3 trips per day)	-	km	3.4 miles
21	Single passenger fare for shared 5 km trip	\$1.42	KIII	
22	Passenger distance traveled during peak hour	36,031	km	22,380 miles
23				(45% of expected and 37% ht to Transit X)
	Breakeven			
24	Boarding capacity			r (131% of customers)
25	Number of pods for peak demand		pods at 73% m	
26	Number of customers per pod	38.3	and 52 people pe	er pod
27	Distance per ped per veer			
22	Distance per pod per year	168,363		0.00/ /
28	Two-layer pod garage area (3% of route with side-parking)	315	m²	0.2% of car parking
29	Two-layer pod garage area (3% of route with side-parking) Cost of pods	315 \$1,859,000	m ² is \$95 per persor	1
29 30	Two-layer pod garage area (3% of route with side-parking) Cost of pods Capital cost of energy generation and storage	315 \$1,859,000	m²	1
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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 (37 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	1.31	km	1 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		
	Average distance traveled per person per year			
22	(for trips under 1600 km)	10,000	km	6,211 miles
23	Average distance per day per person	27	km	
24	Mode share % of people convenient to Transit X	85%	at 5 min walk.	
25	Percentage of daily demand during peak hour	20%		
26	Maximum capacity per track	23,598	pph	
27	Average dwell time during peak hour	10	seconds	
28	% of pods traveling on route with highest demand	18%		
29	Average speed of pod	72	km/h	45 mph
30	Average # of trips for a daily customer	3	per day	
31	Average passengers per pod during peak hours	2.2	passengers	
32	Average passengers per pod	1.4	passengers	
	Average discount per passenger	18%		
33	Maximum passengers per pod	5	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	\$0.43		
39	(per mile)	\$0.70		
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		a / = /
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	0.40	кт	
50	Stops per km	2.5	un un la	
51	Boarding capacity per stop	2.0	pph	
52	Solar panel area per meter of track		nor kMh	
53	Cost of sustainable energy and storage Global Horizontal Irradiance (GHI)		per kWh kWh/m²/dav	
54	Cost to generate sustainable energy		per kW	
55	Storage per column		kWh	
56 57	Typical span	23		44
57	Energy storage cost		per kWh	
59	Energy storage capacity		days	
59 60	Area of parked pod	2.20	-	
61	Distance discount at max distance	40%		
62	Max distance discount	500	km	
63	Max usage discount at 10,000 km per capita	50%		
64	Shared Pod Discount	20%		
65	Shared Pod Compartment Discount	40%		
66	Mode share starting discount	67%		
00				

6,494	MTCO2-eq annually
\$3,101,529	annually
1,054	metric tons annually
292	hrs/person annually
\$1,124	per person annually
9%	
41	annually
0	annually
151,242	m ²
0.5 to 2	С°
High	

Model Inputs (continued)

68	Name of region or project	Hopkington, MA
69	Currency name	
70	Equal to US\$1	1
71	Sustainable energy/electricity generation & storage as	CAPEX
72	Land area of region (sq. km)	68.8
73	Number of residents in region	15,000
74	% travel within region	60%
75	% of land area served by roads	35%
76	Coverage: % of pop. convenient (8 min walk) to Transit X	90%
77	Annual median household income (US\$)	\$55,000
78	Convenient walk time to stop (min)	8
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	1.0
85	EPC costs & contingency	30%
36	Triple-speed (km/h)	242
87	Daily Passengers Adjustment	100%
88	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 5 km trip	5	21
97	Fare/cost per km	\$0.43	\$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 Taxe	es	(for calculating min	nimums)
2	Total commercial land (estimated)	2,408,000	m ²	595 acres
3	Total commercial gov't revenue (US\$)	\$2,648,800		
4	TXCR (Transit X Commercial Rate)	\$1.10	per m²	
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	
6				
7	Private Easement Fees	For example		
8	4% of gross revenue	\$26.81	per route- meter	\$8.18 per route-foot
9	Minimum per year	\$1.63	per route- meter	\$0.50 per route-foot
10	Transit X payment to G	overnment		
11	% of route on government easements	98%		
12	5% on government easements	\$2,178,538		
13	1% on private easements	\$8,892		
14	Total air-rights and local taxes	\$2,187,430	per year	
15	per resident	\$146		
16	with a minimum of	\$27,115	per year	
17				

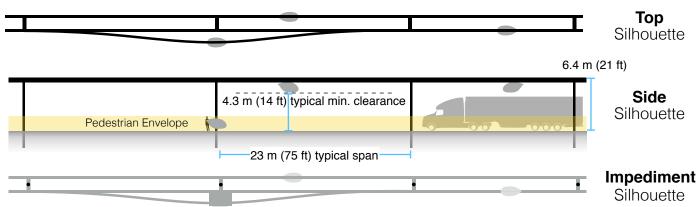
¹⁸ Other financial benefits to Government

19 Less road maintenance from lower VMT

20 Public land made available from less parking and lanes

- 21 Reduced emergency and police services for road-related incidents
- 22 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

1	Footprint Calculations	Metric		Imperial	
2	Track width	<u>0.30</u> m		11.8	inches
3	Track height	<u>0.60</u> m		23.6	inches
4	Post diameter	<u>0.3</u> m		11.8	inches
5	Post cross section	<u>0.07</u> m ²		0.8	sf
6	Stop landing area	<u>3.75</u> m ²		40.4	sf
7	width	<u>1.5</u> m			inches
8	length	<u>2.5</u> m		98.4	inches
9	Ramp length	<u>21</u> m		68.9	
10	Typical Span	<u>23</u> m		75.5	
11	Number of posts per unit length	<u>43.5</u> pole	es per km		poles per mile
12	Post height	<u>6</u> m		19.7	feet
13					
14	Single track	1022.1 m ²		10998	sf
15	Area of Side Silhouette	678.3 m ²		7298	sf
16	Area of Top Silhouette	313.1 m ²		3369	sf
17	Impediment Area (adjusted)	30.7 m ²		331	sf
18					
19	Dual track	1322.1 m ²		14226	sf
20	Area of Side Silhouette	678.3 m ²		7298	sf
21	Area of Top Silhouette	613.1 m ²		6597	
22	Impediment Area (adjusted)	30.7 m ²		331	sf
23					
24	Stop	82.1 m ²		883	sf
25	Area of Side Silhouette	25.2 m ²		271	
26	Area of Top Silhouette	19.4 m ²		208	
27	Impediment Area (adjusted)	37.5 m²		404	sf
28		or to m		101	01
29	Stops with dedicated landing areas	2 stor	ps per km	3.0	stops per mile
30	% of dual track	100%		0.2	stops per mile
31		10070			
32	Average area per unit length	1.486 m ²	per route-km	25.793	sf per route-mile
33		.,		_0,100	
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			
		10			



Summary

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

At 0.42 USD per mile, a typical commute on Transit X is 17% less than public transit and 74% less than a Taxi.*

	Trip Length												
All prie	ces in	USD		1 mile					6 mile				25 mile
Transit X				0.52 to 0.86 2 min., 3.6x faster					2.56 to 4.29 8 min., 3.6x faster				9.83 to 16.75 33 min., 3.4x faster
Public transit average				2.90				4.62				6.77	
Common public modes	Тах	i		2	4.(to 6 m		s			17. 30 m	-	es	68.15 30 to 120 minutes
	Jber/L	.yft		3.06 2 to 6 minutes			12.62 8 to 30 minutes		es	48.44 30 to 120 minutes			
Id uou	ublic	Bus		31	2.3 to 12 r		es		15 to	2.3		tes	3.58 60 to 240 minutes
Comr	Trai	n		3.50 2 to 12 minutes				4.13 8 to 60 minutes			es	6.46 30 to 240 minutes	
Personal car				2 t	3.3	-	es		1 8 to 3	0 . 30 n			37.29 30 to 120 minutes
	Avg. Speed	Low Speed	High speed				Dist	Max Dist.	Time cost	Mode 6%	shar 70%	-	* All numbers on mode shares, speeds, and cos
Travel mode	km/h	km/h	km/h	Base	Includ es km	Over per-km	km	km	per min	2	10	40	are rough estimates
Taxi	30	20	80	2.34	1		0.5		1.04	5%	4%	1%	
Uber/Lyft Public Bus	30 15	20 10	80 40	1.87 2.34	1 20	0.93	0.5	100 50	0.52 0	10%	10% 50%		
Train	30	10	80	3.50	20	0.08		100	0		36%		

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

0.23

0.26 0.1 50

0.78 0.1 400

72

30

72

20

72

80

0

1.56

0

0

Transit X

Personal car



Fair Fare Formula

Fare rates are updated annually using this formula

	TT GHOIN.			
	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
2	AllTravel	23,000	km	standard published data. Travel distance per household per year on any mode for trips under 1600 km. A
3	PercentIncomeForTransport	20%		global constant % of median household income for all transportation under 1600 km trips. A
4	GlobalRate	0.09	USD/km	global constant. Global rate: GlobalIncome * PercentincomeForTransport / AllTravel
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	1.00		Regional Fare Factor. Negotiated upfront to make network financially viable.
11	AdjustedRate	0.48	USD/km	Regional adjusted rate: NominalRate * RegionalFactor
13	Population	15,000		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	65,757,339	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	19%		Percent of Total Travel Per Capita on Transit X: PassengerTravel / (Population x AllTravel)
16	BaseRate	0.43	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	0.95	USD/km	Base rate for high-speed travel or water crossings: BaseRate * SpecialRateFactor
19	DistanceDiscount	40%		Distance discount at max distance. Global constant.
20	MaxDistanceDiscount	500	km	Max distance discount. Global constant.
21	DistanceDiscountPerKm	0.000346	USD/km	Discount amount per km: BaseRate x DistanceDiscount / MaxDistanceDiscount
22 23	SeniorDiscount StudentDiscount	20%		Senior discount set according to local regulations
23	DisabilityDiscount	20% 20%		Student discount set according to local regulations
04	DiscountBaseRate	0.35		Disability discount set according to local regulations
24	DiscountBaseRate	0.35	USD/km	Discounted base rate: BaseRate x (1 - SeniorDiscount)
25	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.
26	SharedPodRate	0.35	USD/km	Rate for a shared pod: BaseRate x (1 - SharedPodDiscount)
27	SharedCompartmentDiscount	40%		Discount for shared compartment. Set by Transit X per year. 25% minimum and 40% maximum. Maximum yearly change is one percentage point.
28	SharedCompartmentRate	0.26	USD/km	Rate for shared compartment BaseRate x (1 - SharedCompartmentDiscount)
29	SingleOccupancyMaxDistance	0.29	USD/km	Rate for 500 km in single-passenger pod. Rate for a Senior taking a 500 km trip in a shared compartment.
30	Senior + SharedCompartmentRate	0.12	USD/km	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	48,660,431	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	17,254,839	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	8,781,665	km	Cap on passenger travel distance at market rate: DistanceBase x MarketRateCap

Project Summary

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

Project type Privately-funded Public Transit

Design, Build, Finance, Own, Operate, Maintain (DBFOOM)

Project equity US\$19 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 \$2,187,430 per year

Benefits to society and Extremely high environment

Estimated return 19% average IRR at 5 yrs 28% average IRR at 10 yrs

Financials (US\$ in millions)	Year 1	Total Years 1-12
Gross Revenues	15	424
Taxes and fees	1	21
Debt service	\$3	\$34

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

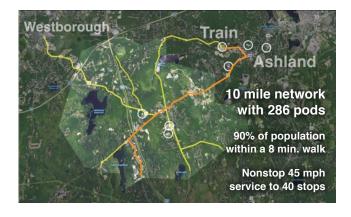




Transit X presents a preliminary proposal for a privately-financed, solarpowered public transit network — a fleet of fully-autonomous, shared, electric, 4-passenger vehicles (pods) on a local and regional podway

Hopkington, 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-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)17Starting number of pods94Projected revenue growth15%Project Cost (Privately funded)\$62,781,551% Debt financed70%Debt\$43,947,086Equity\$18,834,465Debt payment (per year)\$3,076,296

- Travel per year per pod (km) 168,363
- Revenue per vehicle-km (US\$) 0.92
 - 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	14,612,717	16,804,624	19,325,318	22,224,116	25,557,733	29,391,393	33,800,102	38,870,118	44,700,635	51,405,730	59,116,590	67,984,078
5% RoW÷tax÷fee		0%	730,636	840,231	966,266	1,111,206	1,277,887	1,469,570	1,690,005	1,943,506	2,235,032	2,570,287	2,955,829	3,399,204
Debt service		0	\$3,076,296	\$3,076,296	\$3,076,296	\$3,076,296	\$3,076,296	\$3,076,296	\$3,076,296	\$3,076,296	\$3,076,296	\$3,076,296	\$3,076,296	\$3,076,296

Investor share	0	6,210,033	7,515,308	8,371,079	3,453,758	3,674,331	3,927,991	4,219,699	4,555,163	4,940,948	5,384,599	5,894,799	6,481,528
Investor share (%)		90%	90%	84%	29%	26%	24%	22%	20%	18%	17%	16%	15%
Share / Orig Capital	0%	33%	40%	44%	18%	20%	21%	22%	24%	26%	29%	31%	34%
IRR to date	loss	(67%)	(18%)	8%	14%	19%	22%	24%	26%	27%	28%	29%	30%

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.