



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

Greater Boston, MA

This proposal is downloadable at transitx.com/proposals/Transit X for Greater Boston,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



Proposal Overview



Transit X proposes to build and operate a green, privately-financed micro-rail podway to carry passengers and freight for Greater Boston that makes the Transit X service convenient to 95% of the population.

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

Major benefits

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

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



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

Congestion, parking, pollution, and safety

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

High Capacity

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. Use of underground tunnels is an option. 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

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\$811 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

Process Legal Framework Proposal(s) Ordinance and Fasement right **Fixed** infrastructure Shov **Project Financing** Procurement, Manufacturing & Installation of Tracks and Poles MoU/Lot to create a Ridership-Revenue Legal **Pods** framework Procurement, Manufacturing & Commissioning Environmental to build Studies and Permit and operate Certification **Podways** Engineering Operational Expansion

Evaluation

Please review our preliminary proposal, and

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

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

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

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

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

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

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

Other Resources

The links below provide general information about Transit X:

- One minute video overview (transitx.com/video)
- Transit X Handbook (transitx.com/transitxhandbook.pdf)
- Letters of Project Financing, Due Diligence, Contracts (<u>transitx.com/letters.pdf</u>)
- Memorandum of Understanding template (<u>transitx.com/process/mou.html</u>)
- Example Right-of-Way agreement (<u>transitx.com/process/resolution.html</u>)
- Operating Agreement (<u>transitx.com/process/operating_agreement.html</u>)
- 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 Greater Boston through better transportation.

Sincerely,



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

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1	Transit X network length	4,921	km	3,056.3 miles
2	People (resident-equivalent) in region	4,732,161	resident-equivalent	population
3	Route density ratio (route length to service area)	1.16		
4	Number of stops	19,880		
5	Triple-speed route length	738	km	458 miles
6	Water crossing route length	0	km	
7	Cost of fixed infrastructure	\$23,201,178,796		
8	per person	\$4,903		
9	Mode share of travel on Transit X (27% after first year)	81%	after 10 years	
10	Distance traveled by passengers on Transit X, per year	36,301,590,071	km	22,547,571,473 miles
11	per day	99,456,411	km	61,774,168 miles
12	Daily potential energy generation with standard panels on tracks	37,790	MWh	
13	Sustainable energy use per day	627	MWh	2% of max capacity
14	Energy storage capital cost for 1 day(s) of supply at \$100 per kWh	\$62,699,077		
15	Size (rated power) of solar installation	145,765	KW	
16	Cost to generate sustainable energy (at \$1,000 per kW)	\$145,765,370		
17	Cost of buying sustainable energy at \$0.15 per kWh	\$94,049	per day	3% of OPEX
18	Daily passengers riding Transit X	3,821,220	customers	81% of the pop.
19	Distance per passenger per day	26	km	16.2 miles
20	Average distance per trip (assuming 3 trips per day)	9	km	5.4 miles
21	Single passenger fare for shared 9 km trip	\$1.89		
22	Passenger distance traveled during peak hour	19,891,282	km	12,354,834 miles
23	Breakeven	1,494,928	customers per day (of people convenien	39% of expected and 33% to Transit X)
24	Boarding capacity			r (187% of customers)
25	Number of pods for peak demand	146 951	node at 81% m	ode chare
25 26	Number of pods for peak demand		pods at 81% m	
26	Number of customers per pod	26.0	and 32 people pe	
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Impact of proposed network

1	Reduction in GHG emissions (metric tons CO2-eq)	3,584,782 MTCO2-eq annually
2	Estimated cost to maintain public roadways	\$871,725,306 annually
3	Reduced waste products	581,733 metric tons annually
4	Travel time saved (non-stop travel and congestion)	462 hrs/person annually
5	Cost savings from reduced car ownership	\$2,448 per person annually
6	Increase in household income (from time savings and car costs)	16%
7	Reported injuries avoided	22,507 annually
8	Lives saved (from safety)	225 annually
9	Land freed from parking (20,631 acres)	83,493,657 m ²
12	Temperature reduction (from heat island effect & GHG reductions)	0.5 to 2 °C
11	Health care savings (from pollution, injuries)	High

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	0.82	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		
22	Average distance traveled per person per year (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	25,380	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		passengers	
32	Average passengers per pod	1.5	passengers	
	Average discount per passenger	19%	-	
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	\$0.36		
39	(per mile)	\$0.58		
40	O&M as % of project cost	5%		
41	Percentage debt financed	70%		
42	Length of loan/debt	10	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)	\$12.50		
46	Eat. roadway maintenance per year per km	\$51,000		
47	Area of one parking lot space	23	m ²	247 sf
48	Commercial income of land (annual)	\$1.00	per m ²	
49	Distance from roadway that is convenient	0.25	km	
50	Stops per km	4.0		
51	Boarding capacity per stop	360	pph	
52	Solar panel area per meter of track	2.0		
53	Cost of sustainable energy and storage	\$0.15	per kWh	
54	Global Horizontal Irradiance (GHI)		kWh/m2/day	
55	Cost to generate sustainable energy		per kW	
56	Storage per column		kWh	
57	Typical span	23		44
58	Energy storage cost		per kWh	
59	Energy storage capacity		days	
60	Area of parked pod	2.20	m ²	
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%		

Model Inputs (continued)

	• •	•
68	Name of region or project	Greater Boston, 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)	4,700
73	Number of residents in region	4,732,161
74	% travel within region	95%
75	% of land area served by roads	90%
76	Coverage: % of pop. convenient (5 min walk) to Transit X	95%
77	Annual median household income (US\$)	\$50,000
78	Convenient walk time to stop (min)	5
'9	Triple-speed route length (km)	738
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
84	Regional Fare Factor	1.0
85	EPC costs & contingency	30%
86	Triple-speed (km/h)	242
87	Trip Distance Factor	1
88	Number of Stops Factor	1

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 9 km trip	7	33
97	Fare/cost per km	\$0.36	\$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



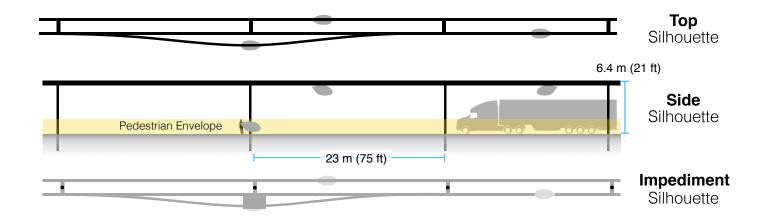
5% of gross revenue is paid for air rights and local taxes.

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

1	Air-rights and Local Taxes	s	(for calculating minimum:	s)
2	Total commercial land (estimated)	423,000,000	m^2	104,526 acres
3	Total commercial gov't revenue (US\$)	\$423,000,000		
4	TXCR (Transit X Commercial Rate)	\$1.00	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.	\$10.76	per sf	
6				
7	Private Easement Fees	For example		
8	4% of gross revenue	\$41.33	per route- meter	\$12.60 per route-foot
9	Minimum per year	\$1.49	per route- meter	\$0.45 per route-foot
10	Government Fees a	nd Taxes		
11	% of route on government easements	98%		
12	5% on government easements	\$996,410,556		
13	1% on private easements	\$4,066,982		
14	Total air-rights and local taxes	\$1,000,477,538	per year	
16	per resident	\$211		
15	with a minimum of	\$7,313,053	per year	

Footprint calculations for minimum fee

Yearly fees and taxes



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	59.1 inches
8	length	<u>2.5</u> m	98.4 inches
9	Ramp length	<u>21</u> m	68.9 feet
10	Typical Span	<u>23</u> m	75.5 feet
11	Number of posts per unit length	43.5 poles per ki	m 70.0 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 sf
22	Impediment Area (adjusted)	30.7 m ²	331 sf
23	podiment / trod (dajdotod)	0011 111	331 31
24	Stop	82.1 m ²	883 sf
25	Area of Side Silhouette	25.2 m ²	271 sf
26	Area of Top Silhouette	19.4 m ²	208 sf
	·	-	
27	Impediment Area (adjusted)	37.5 m^2	404 sf
28			
29	Stops with dedicated landing areas	2 stops per k	m 3.2 stops per mile
30	% of dual track	100%	0.2 Stope per mile
31	70 of dual traon	10070	
32	Average area per unit length	1,486 m² per rout	e-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%	
38	Impediment Factor	10	
00	impediment ractor	10	



Fair Fare Formula

Summary

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

At 0.35 USD per mile, a typical commute on Transit X is 17% less than public transit and 74% less than a Taxi.*

			Trip Length	
A	II prices in USD	1 mile 6 mile		25 mile
	Transit X	0.43 to 0.72 2 min., 3.6x faster	2.14 to 3.59 8 min., 3.6x faster	8.23 to 14.03 33 min., 3.4x faster
F	Public transit average	2.43	3.87	5.67
səpou	Taxi	3.37 2 to 6 minutes	14.67 8 to 30 minutes	57.06 30 to 120 minutes
Common public modes	Uber/Lyft	2.56 2 to 6 minutes	10.56 8 to 30 minutes	40.56 30 to 120 minutes
nou pı	Public Bus	1.96 3 to 12 minutes	1.96 15 to 60 minutes	3.00 60 to 240 minutes
Comr	Train	2.93 2 to 12 minutes	3.46 8 to 60 minutes	5.41 30 to 240 minutes
Personal car		2.82 2 to 6 minutes	8.87 8 to 30 minutes	31.55 30 to 120 minutes

	Avg. Speed	Low Speed	High speed				Min Dist	Max Dist.	Time cost	Mode 6%	shar 70%	
Travel mode	km/h	km/h	km/h	Base	Includ es km	Over per-km	km	km	per min	2	10	40
Taxi	30	20	80	1.96	1	0.98	0.5	100	0.87	5%	4%	1%
Uber/Lyft	30	20	80	1.57	1	0.78	0.5	100	0.43	10%	10%	2%
Public Bus	15	10	40	1.96	20	0.05	0.5	50	0	50%	50%	40%
Train	30	10	80	2.93	2	0.07	2	100	0	35%	36%	57%
Transit X	72	72	72	0	0	0.22	0.1	50	0	-	-	-
Personal car	30	20	80	1.30	0	0.65	0.1	400	0.21	-	-	-

^{*} All numbers on mode shares, speeds, and costs are rough estimates..

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.



Fair Fare Formula

Fare rates are updated annually using this formula

	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	PercentIncomeForTransport	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 / AllTravel
5	IncomeFirst	\$50,000	USD	Median household income at first stop (per person per day). External input. Based on reliable public data source updated annually.
6	IncomeDest	\$75,000	USD	Median household income at destination per trip. External input. Based on reliable public data updated annually.
7	RegionalRate	0.43	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	0.43	USD/km	Nominal rate: RegionalRate + UnderIncomeRate
10	RegionalFactor	1.00	LIOD //	Regional Fare Factor. Negotiated upfront to make network financially viable.
11	AdjustedRate	0.43	USD/km	Regional adjusted rate: NominalRate * RegionalFactor
13	Population	4,732,161		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	36,301,590,071	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	33%		Percent of Total Travel Per Capita on Transit X: PassengerTravel / (Population x AllTravel) PassengerTravel for single passenger and (without discounts)
16	BaseRate	0.36	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	0.80	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	0.000290	USD/km	Discount amount per km: BaseRate x DistanceDiscount / MaxDistanceDiscount
22	SeniorDiscount StudentDiscount	20%		Senior discount set according to local regulations
23		20%		Student discount set according to local regulations
0.4	DisabilityDiscount	20%		Disability discount set according to local regulations
24	DiscountBaseRate	0.29	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	0.29	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	0.22	USD/km	Rate for shared compartment BaseRate x (1 - SharedCompartmentDiscount)
29	SingleOccupancyMaxDistance	0.25	USD/km	Rate for 500 km in single-passenger pod.
30	Senior + SharedCompartmentRate	0.10	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	26,863,176,653	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	7,891,944,104	USD	Annual revenue from all travel under base rate. Audited value from operational data.
35	AverageDiscount	19%		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	19%		Cap on passenger travel distance at market rate: AverageDiscount x MarketFactor
38	MarketTravelCap	5,078,806,274	km	Cap on passenger travel distance at market rate: DistanceBase x MarketRateCap

Project Summary

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

Project type Privately-funded Public Transit

Design, Build, Finance, Own, Operate,

Maintain (DBFOOM)

Project cost US\$24.43 billion

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 \$1,000,477,538 per year

Benefits to society and environment

Extremely high

34% average IRR over 12 yrs

Financials

(US\$ in millions)

	Year 1	Total Years 1-12
Gross Revenues	6,711	194,617
Taxes and fees	336	9,731
Debt service	\$1,197	\$13,166

ESG (Environmental, Social, Governance) Benefits

Clean energy	yes	Resiliency	yes
Energy security	yes	Sustainable	yes
Emissions-free	yes	Equitable	yes
GHG-free	yes	Recyclable materials	yes
Lowers pollution	yes	Affordable housing	yes
Clean water	yes	Improved Health	yes
Improved Safety	yes	Econ. Development	yes
New infrastructure	yes	Access to Food	yes
Equitable transport	yes	New job creation	yes

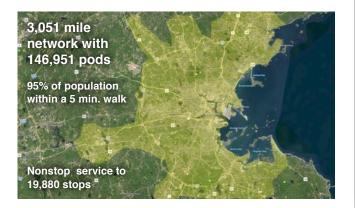




Transit X presents a preliminary proposal for a privately-financed, solar-powered public transit network — a fleet of fully-autonomous, shared, electric, 4-passenger vehicles (pods) on a local and regional podway

Greater Boston, 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	Letter of intent	Yes
Outdoor test system	Dec, 2019	Yes
Rider-Revenue study	Preliminary	Yes
Environmental study	Per region	Yes
Air rights	Per project	Yes
Permitting	Per project	Yes
Safety certification	In process	Yes
Construction firm	Per project	Yes
Design and major subs	Per project	Yes
Operations & Maint	Yes	Yes
Utility relocation	Per project	Agreements

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



Model Inputs and Assumptions

Route length (km) 4,921

Starting number of pods 48,494

Projected revenue growth 15%

Project Cost (Privately funded) \$24,427,364,078

% Debt financed 70%

Debt \$17,099,154,855

Equity \$7,328,209,223

Debt payment (per year) \$1,196,940,840

Travel per year per pod (km) 168,192

Revenue per vehicle-km (US\$) 0.82

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

Revenue	0	6,710,543,596	7,717,125,135	8,874,693,905	10,205,897,991	11,736,782,690	13,497,300,093	15,521,895,107	17,850,179,373	20,527,706,279	23,606,862,221	27,147,891,555	31,220,075,288
5% RoW+tax+fee	0%	335,527,180	385,856,257	443,734,695	510,294,900	586,839,134	674,865,005	776,094,755	892,508,969	1,026,385,314	1,180,343,111	1,357,394,578	1,561,003,764
Debt service	0	\$1,196,940,840	\$1,196,940,840	\$1,196,940,840	\$1,196,940,840	\$1,196,940,840	\$1,196,940,840	\$1,196,940,840	\$1,196,940,840	\$1,196,940,840	\$1,196,940,840	\$1,196,940,840	\$1,196,940,840
Investor share	0	3,204,932,972	3,831,101,229	1,677,248,432	1,477,085,356	1,582,899,095	1,704,584,895	1,844,523,564	2,005,453,034	2,190,521,925	2,403,351,149	2,648,104,756	2,929,571,405
Investor share (%)		90%	90%	33%	25%	22%	21%	19%	18%	17%	16%	15%	14%
Share / Orig Capital	0%	44%	52%	23%	20%	22%	23%	25%	27%	30%	33%	36%	40%

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.