



Transit X presents a preliminary proposal for privately-financed public transport using green microtransit — a fleet of fully-autonomous shared electric vehicles on a local and regional podway network

Berkeley, CA

This proposal is downloadable at transitx.com/proposals/Transit X for Berkeley,CA.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

44 mile network with 3,146 pods

95% of population within a 2 min. walk

Nonstop 45 mph service to 710 stops



Transit X proposes to build and operate a privately-financed pod network to carry passengers and freight for Berkeley, CA 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.

No public funding

We have reduced or eliminated many costs of transportation including the cost of materials, land, construction, fuel, debt service, and labor. Transit X does not require public funding because revenue from fares more than covers our costs. Our business model appeals to investment banks and private equity firms that finance green infrastructure projects.

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. An in-depth (1000+ hours) technical assessment and feasibility analysis has been completed by Altran, a global engineering firm with extensive expertise in automated transit systems. The first pilots of Transit X will be deployed by the end of 2018.

Before any groundbreaking, the system will be safety-certified and fully insured.

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 and have no 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.

Sustainable

Transit X runs on 100% sustainable energy. The energy generated from solar panels on the track and stored within the poles is sufficient in most cases, but sustainable power contracts may used to buy and sell power to the grid. Transit X makes it possible to reduce the amount of impervious surfaces and increase green space by reducing the need for parking and roads. By replacing cars, Transit X has a negative carbon footprint.

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 higher use of mass transit and less use of personal vehicles.

De-risking Projects

Transit X is working 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 would work with regional urban planning and construction firms who are familiar with permitting and applicable codes.

Jobs and Workforce Development

Many jobs will be created to build a new transportation infrastructure, as well many new types of job will be created as transportation becomes more efficient. Transit X intends to build manufacturing and assembly plants around the world and locate them where Transit X is first deployed in a region. The vast majority of the construction jobs will be locally sourced. Preferential hiring would be given to those workers displaced by the transition to automated podways.

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\$16 million

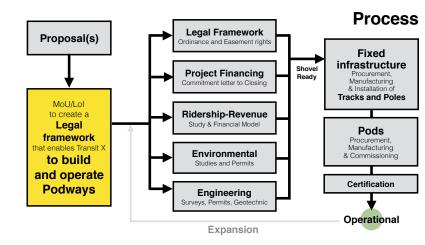
per year average over the first 10 years. For specifics, please see the "Taxes and Fees" section of this proposal. These fees and taxes paid by Transit X enables lower taxes or more spending on public services.

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 general process for working with a government or commercial entity. We would refine a proposal that meets your needs, then ask for a letter stating you will create a legal framework for Transit X to build and operate a podway in your region. 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.

Whatever process you use to evaluate this proposal, Transit X is open to working with you on refining this proposal to meet your needs. 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 need a memorandum of understanding (example at <u>transitx.com/process/mou.html</u>) stating that you intend to pass an ordinance that enables our use of air rights along with an operating agreement.

The buildout of the network would be rolled out in phases, where a first phase could be a 15 to 30 km pilot.

Other Resources

The links below provide general information about Transit X:

- 2 minute video overview (transitx.com/video)
- Transit X Handbook (transitx.com/transitxhandbook.pdf)
- · Letters of Project Financing, Due Diligence, Contracts (transitx.com/letters.pdf)
- · Memorandum of Understanding template (transitx.com/process/mou.html)
- Example Resolution (transitx.com/process/resolution.html)
- Operating Agreement (transitx.com/process/operating_agreement.html)
- General Q & A (<u>transitx.com/QandA.html</u>)
- 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 Berkeley through better transportation.

Sincerely,

Mike Stanley CEO, Transit X

Telephone: +1 508-596-7024 (also via WhatsApp) Email: <u>mike@transitx.com</u> Zoom eRoom: <u>https://zoom.us/j/8229009123</u> Website: <u>transitx.com</u> LinkedIn: http://linkedin.com/in/mikestanleymit/ Skype: mikestanley49 WeChat: MikeTransitX Facebook Messanger: m.me/MikeStanleyMIT Twitter: <u>https://twitter.com/MikeTransitX</u> Mail: 1127 Commonwealth Ave #30, Boston, MA 02134 USA



Project Overview



	5 X .			
	Transit X network length	71	km	43.9 miles
	People (resident-equivalent) in region	122,324	resident-equivalent p	opulation
	Route density ratio (route length to service area)	2.91		
	Number of stops	710		
	Triple-speed route length	0	km	
	Water crossing route length	0	km	
	Cost of fixed infrastructure	\$256,314,168		
	per person	\$2,095		
	Mode share of travel on Transit X (28% after first year)	84%	after 10 years	
	Distance traveled on Transit X, per year	722,494,920	km	448,754,609 miles
	per day	1,979,438	km	1,229,465 miles
D	aily potential energy generation with standard panels on tracks	543	MWh	
	Sustainable energy use per day	13	MWh	2% of max capacit
Ene	rgy storage capital cost for 1 day(s) of supply at \$100 per kWh	\$1,342,106		
	Size (rated power) of solar installation	3,120	KW	
	Cost to generate sustainable energy (at \$1,000 per kW)	\$3,120,182		
	Cost of buying sustainable energy at \$0.15 per kWh	\$2,013		5% of OPEX
	Daily passengers riding Transit X		customers	84% of the pop.
	Distance per passenger per day		km	11.9 miles
	Average distance per trip (assuming 3 trips per day)	6	km	4.0 miles
	Single passenger fare for shared 6 km trip	\$1.60		
	Passenger distance traveled during peak hour	395,888	km	245,893 miles
	Breakeven		customers per day	
	Dieakeven	23,074	(20% of people conv	opiont to Transit V)
		0.440		
	Number of pods for peak demand		pods at 84% m	
	Number of customers per pod	32.8	and 39 people per	
	Number of customers per pod Distance per pod per year	32.8 168,168	and 39 people per km	pod
	Number of customers per pod Distance per pod per year Two-layer pod garage area (5% of route with side–parking)	32.8 168,168 3,461	and 39 people per km m ²	pod 0.2% of car parkin
	Number of customers per pod Distance per pod per year Two-layer pod garage area (5% of route with side–parking) Cost of pods	32.8 168,168 3,461 \$20,449,000	and 39 people per km m ² is \$129 per persor	pod 0.2% of car parkin
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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 (411 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 Walking speed	4.
16	Waking speed Width of convenient swath along track	4.
17 18	Fixed cost per km. Solar+storage not included.	\$2,790,00
19	Water crossing: additional cost per km	\$8,370,00
20	Triple-speed: additional cost per km	\$5,580,00
20	Rate factor for water crossings or high-speed links.	¢0,000,00 2.
21	Average distance traveled per person per year	<u> </u> .
22	(for trips under 1600 km)	10,00
23	Average distance per day per person	2
24	Mode share % of people convenient to Transit X	85%
25	Percentage of daily demand during peak hour	20%
26	Maximum capacity per track	23,59
27	Average dwell time during peak hour	1
28	% of pods traveling on route with highest demand	189
29	Average speed of pod	7
30	Average # of trips for a daily customer	
31	Average passengers per pod during peak hours	2.
32	Average passengers per pod	1.
	Average discount per passenger	189
33	Maximum passengers per pod	
34	Empty pods: Percentage non-revenue	25%
35	Ex-Factory cost per pod	\$5,00
36	Worldwide Median Income per Household (US\$)	10,00
37	Average number of residents per household	2.
38	Base fare per km	\$0.4
39	(per mile)	\$0.6
40	O&M as % of project cost	5%
41	Percentage debt financed	709
42	Length of loan/debt	1
43	Interest rate for debt	
44	kg CO2 emissions per liter of gasoline	2.3 \$13.7
45	Monetary value of 1 hour personal time (USD) Eat. roadway maintenance per year per km	\$13.7
46	Area of one parking lot space	φ51,00 2
47	Commercial income of land (annual)	ے \$1.1
48	Distance from roadway that is convenient	0.1
49 50	Stops per km	10.
50	Solar panel area per meter of track	2.
52	Cost of sustainable energy and storage	\$0.1
53	Global Horizontal Irradiance (GHI)	3.
54	Cost to generate sustainable energy	\$1,00
55	Storage per column	4
56	Typical span	2
57	Energy storage cost	\$10
58	Energy storage capacity	
59	Area of parked pod	2.2
60	Distance discount at max distance	40%
61	Max distance discount	50
62	Max usage discount at 10,000 km per capita	50%
63	Shared Pod Discount	209
64	Shared Pod Compartment Discount	40%
65	Mode share starting discount	679

and freed from parking (411 acr							
	heat island effect & GHG reductio						
are s	avings (fron	n pollution,	inj	uri			
4							
	km/h	3 mph					
0.33	km	0 miles					
90,000				67			
70,000				68			
80,000							
2.2				69			
10,000	km	6,211 miles		70			
27	km			70			
85%	at 5 min walk.			71			
20%				70			
23,598	pph			72			
10				73			
18%				74			
72	km/h	45 mph					
3	per day			75			
	passengers						
	passengers			76			
18%				77			
5	passengers			78			
25%				10			
\$5,000 10,000				79			
2.3				80			
\$0.42				81			
\$0.67				01			
5%				82			
70%				83			
10	years			84			
5%	·			04			
2.37				85			
\$13.75							
51,000							
	m ²	247 sf					
	per m ²						
0.10	km			8			
10.0				8			
2.0	m a v la) A (la						
	per kWh kWh/m²/day			8			
3.0 \$1,000				8			
. ,	kWh			9			
	m cols/km:	44		9			
	per kWh			9			
	days			9			
2.20	m ²			9			
40%				9			
500	km			9			
50%				9			
20%				9			
40%							
67%				9			

71,346	MTCO2-eq annually
\$12,519,459	annually
11,578	metric tons annually
340	hrs/person annually
\$1,422	per person annually
11%	
448	annually
4	annually
1,661,738	m ²
0.5 to 2	°C
High	

Model Inputs (continued)

Name of region or project	Berkeley, CA
Currency name	
Equal to US\$1	1
Sustainable energy/electricity generation & storage as	CAPEX
Land area of region (sq. km)	27
Number of residents in region	122,324
% travel within region	70%
% of land area served by roads	90%
Coverage: % of pop. convenient (2 min walk) to Transit X	95%
Annual median household income (US\$)	\$55,000
Convenient walk time to stop (min)	2
Triple-speed route length (km)	0
Water crossing route length (km)	0.0
Visitors per year	0
Average length of visit (days)	2
Solar production ratio	1.57
Regional Fare Factor	1.0
EPC costs & contingency	30%
Triple-speed (km/h)	242
	Currency name Equal to US\$1 Sustainable energy/electricity generation & storage as Land area of region (sq. km) Number of residents in region % travel within region % of land area served by roads Coverage: % of pop. convenient (2 min walk) to Transit X Annual median household income (US\$) Convenient walk time to stop (min) Convenient walk time to stop (min) Friple-speed route length (km) Water crossing route length (km) Visitors per year Average length of visit (days) Solar production ratio Regional Fare Factor EPC costs & contingency

Pod & Car

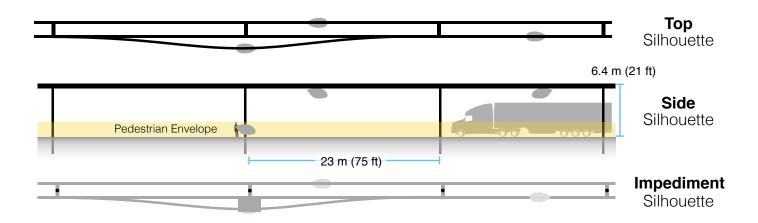
		Pod	Car
86	Service life (years)	20	12
87	Full cost of vehicle per year	\$200	\$9,000
88	Public cost to maintain infrastructure (per km)	\$0	\$100,000
89	Energy Efficiency in MPGe	3564	24
90	Energy Efficiency in liters/100km	0.07	9.8
91	Energy used (Watt-hours/km)	9	1375
92	mass of CO2 per vehicle per km (kg)	0	0.09875
93	Vehicle mass (kg)	45	1950
94	Average speed of urban travel (km/h)	72	16
95	Typical travel time (in minutes) for 6 km trip	5	24
96	Fare/cost per km	\$0.42	\$0.62
97	Number of deaths per 100M passenger-km	0.00001	1
98	Number of injuries per 100M passenger-km	0.0006	62
99	Volume to park (cubic meters)	5.7	70.9



5% of gross revenue is paid to government easement owners for all fees and taxes. When on a private easement, 4% is paid to the private owner and 1% to the government. A minimum payment is based on the Footprint and the Transit X Commercial Rate (TXCR).

1	Government Fees and Ta	ax rate	(for calculating minimu	ms)
2	Total commercial land (estimated)	2,430,000	m ²	601 acres
3	Total commercial gov't revenue (US\$)	\$2,673,000		
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			
8	4% of gross revenue	\$66.60	per route- meter	\$20.31 per route-foot
9	Minimum per year	\$1.86	per route- meter	\$0.57 per route-foot
10	Government Fees a	and Taxes		
11	% of route on government easements	98%		
12	5% on government easements	\$23,060,495		
13	1% on private easements	\$94,124		
14	Total gov't fees and taxes	\$23,154,620	per year	
16	per resident	\$189		
15	with a minimum of	\$131,201	per year	

Footprint calculations for minimum fee



1	Footprint Calculations	Metric	Imperial	
2	Track width	<u>0.41</u> m	16.1	inches
3	Track height	<u>0.61</u> m	24.0	inches
4	Pole diameter	<u>0.3</u> m	11.8	inches
5	Pole cross section	<u>0.07</u> m ²	0.8	sf
6	Stop landing area	2 m ²	21.5	sf
7	width	<u>2</u> m	78.7	inches
8	length	1 m	39.4	inches
9	Ramp length	<u>21</u> m	68.9	feet
10	Pole span	<u>23</u> m	75.5	feet
11	Number of poles per unit length	<u>43.5</u> poles pe	er km 70.0	poles per mile
12	Pole height	<u>6</u> m	19.7	feet
13	-			
14	Single track	1142.1 m ²	12289	sf
15	Area of Side Silhouette	688.3 m ²	7406	
16	Area of Top Silhouette	423.1 m ²	4553	
17	Impediment Area (adjusted)	30.7 m ²	331	-
18				
19	Dual track	1552.1 m ²	16701	٩f
20	Area of Side Silhouette	688.3 m ²	7406	
21	Area of Top Silhouette	833.1 m ²	8964	
22	Impediment Area (adjusted)	30.7 m ²	331	
23		00.7 111	001	51
24	Stop	67.8 m ²	730	ef
25	Area of Side Silhouette	25.6 m ²	276	
26	Area of Top Silhouette	22.2 m ²	239	
	·			
27	Impediment Area (adjusted)	20.0 m ²	215	sf
28				
29	Stops with dedicated landing areas	2 stops pe	er km 3.2	stops per mile
30	% of dual track	100%		
31				
32	Average area per unit length	1,688 m² per r	route-km 29,291	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		10		



Summary

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

At 0.40 USD per mile, a typical commute on Transit X is 17% less than public transit and 74% less than a Taxi.*

Trip Length												
All prices ir	USD			1 m	ile			6	m	ile)	25 mile
Transit X			0.50 to 0.83 2 min., 3.6x faster				2.47 to 4.14 8 min., 3.6x faster			ster	9.47 to 16.14 33 min., 3.4x faster	
Public tra averag				2.8	80			4	4.4	15		6.52
Tax	ci		2	3.8 to 6 n	38 ninute:	s			16.8 30 m		es	65.65 30 to 120 minutes
Uber/	Lyft		2.95 2 to 6 minutes				12.16 8 to 30 minutes		es	46.67 30 to 120 minutes		
Common Uber/ Uber/ Public Tra	Bus		3 t	2.2 to 12 r	25 ninute	es		15 to	2.2	-	tes	3.45 60 to 240 minutes
Tra	in		3.38 2 to 12 minutes			3.98 8 to 60 minutes		es	6.23 30 to 240 minutes			
Personal	car		2 t	3.2	23 ninute	es		1 8 to 3	0. 30 n	_		36.10 30 to 120 minutes
Avg. Speed Travel mode km/h		High speed km/h	Base	Includ	Over	Min Dist km	Max Dist. km	Time cost per min	6%	e shar 70% 10	-	* All numbers on mode shares, speeds, and cos are rough estimates
Taxi 30	20	80	2.25	es km 1	per-km	0.5		1.00	5%	4%	1%	-
Uber/Lyft 30	20	80	1.80	1		0.5		0.50		10%		
Public Bus15Train30	10 10	40 80	2.25 3.38	20 2	0.06 0.08		50 100	0		50% 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 equal or less than the amount of discounted fares. Transit X Fair Fare is a universal passenger fare formula that applies to all regions and all times.

0

0.23

0.25 0.1 50

0.75 0.1 400

72

30

72

20

72

80

0

1.50

0

0

Transit X

Personal car



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
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 12	Population UsageMaxDiscount	122,324 50%		Population in region. Updated annually based on trusted public data source. Fare Discount when Transit X travel per household equals AllTravel. Global
14	PassengerTravel	722,494,920	km	constant. Total passenger distance traveled previous calendar year. Based on expected
15	ModeShare		NIII	mode share for first 3 years. Based on actual passenger trips. Audited. Percent of Total Travel Per Capita on Transit X:
15	Modeonale	26%		PassengerTravel / (Population x AllTravel)
16	BaseRate	0.42	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	0.92	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	0.000333	USD/km	Discount amount per 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	20%		Disability discount set according to local regulations
24	DiscountBaseRate	0.33	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	0.33	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	0.25	USD/km	Rate for shared compartment BaseRate x (1 - SharedCompartmentDiscount)
29	SingleOccupancyMaxDistance	0.28	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%	USD/km	% Higher fare rate if Destination has 50% higher median income than First (IncomeDest / IncomeFirst - 1) / 2
32	DistanceBase	534,646,241	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	182,647,742	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	96,486,697	km	Cap on passenger travel distance at market rate: DistanceBase x MarketRateCap

Project Summary

Project Description	Transportation utility: a fully-automated, solar-powered, microtransit network						
Project type	Privately-funded Public Transport Design, Build, Finance, Own, Operate, Maintain (DBFOOM)						
Project cost	US\$283 million						
Cost to Gov't	\$0						
Structure	Privately financed equity and debt						
Debt term	10 years @ 5%						
Equity terms	A waterfall profit distribution with:90/10 split until Return of Capital,then 50/50 until Target IRR metthen 10/90 onwards						
Taxes & Fees	\$23,154,620 per year						
Benefits to society and environment	Extremely high						

Financials

(US\$ in millions)

	Year 1	Total Years 1-12
Gross Revenues	155	3,781
Taxes and fees	8	189
Debt service	\$26	\$256

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

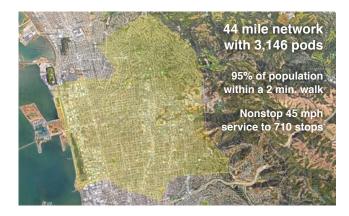




Transit X, LLC presents a preliminary proposal for a privately-funded fleet of fully-autonomous shared electric vehicles on local and regional podway network for

Berkeley, CA

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 transit infrastructure to supplant buses, trains, cars, and trucks. Transit X offers its service to governments and commercial developers. First pilots will begin in 2019. Transit X is a privately held company founded in 2015, based in Boston, Massachusetts, and intends to be certified as a public benefit company.

Status

	Now	Prior to close
Project financing	Financing letter	Yes
Demonstration system	Ready	Yes
Rider-Revenue study	Preliminary	Yes
Environmental study	Expedited	Yes
Air rights	Letter of Intent	Yes
Permitting	Expedited	Yes
Safety certification	Expedited	Yes
Construction firm	Letter of interest	Contract
Design and major subs	Letter of interest	Contract
Operations & Maint	Letter of interest	Contract
Utility relocation	Identified	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)	71		
Starting number of pods	1,038		
Projected revenue growth	15%		
Project Cost (Privately funded)	\$282,564,142		
% Debt financed	70%		
Debt	\$197,794,900		
Equity	\$84,769,243		
Capital return per year	\$16,953,849		
Debt payment (per year)	\$25,615,344		

Travel per year per pod (km) 168,168

- Revenue per vehicle-km (US\$) 0.89
 - OPEX as % of project cost 5%
 - Debt Interest rate 5%
 - Debt term (yrs) 10
- Years to return equity capital 5
- Profit share when below capital return 90%
 - Profit share when below Target IRR 50%
 - Profit share when above Target IRR 10%

Pro Forma

Ye	ars O		1	2	3	4	5	6	7	8	9	10	11	12
Revenue	0	155	5,278,448	178,570,215	205,355,747	236,159,109	271,582,976	312,320,422	359,168,485	413,043,758	475,000,322	546,250,370	628,187,926	722,416,115
5% RoW+tax+fee	0%		7,763,922	8,928,511	10,267,787	11,807,955	13,579,149	15,616,021	17,958,424	20,652,188	23,750,016	27,312,519	31,409,396	36,120,806
Debt service	0	\$2	5,615,344	\$25,615,344	\$25,615,344	\$25,615,344	\$25,615,344	\$25,615,344	\$25,615,344	\$25,615,344	\$25,615,344	\$25,615,344	0	0
Investor balance		-\$5	4,566,520	-\$22,246,543	\$12,508,275	\$50,063,161	\$90,838,126	\$135,316,180	\$170,489,708	\$210,560,573	\$256,263,375	\$308,442,903	\$370,632,203	\$441,386,974

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 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.