



Transit X, LLC presents a preliminary proposal for a privately-funded fleet of fully-autonomous shared electric vehicle network for

Bahrain

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

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



Proposal Overview



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

No public funding

Transit X does not require public funding because our business model appeals to investment banks and private equity firms that provide our project financing. Most of our infrastructure is factory-built, so that installation is fast and not disruptive. We have reduced or eliminated many costs of transportation infrastructure including materials, land, construction, fuel, debt service, and driver costs. By significantly reducing our costs, it makes private financing possible.

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, and many new types of job will be created as transportation becomes more efficient. Municipalities that first embrace Transit X will be offered the opportunity to have Transit X manufacturing and assembly jobs in their area. 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 vehicles.

Revenue Generator

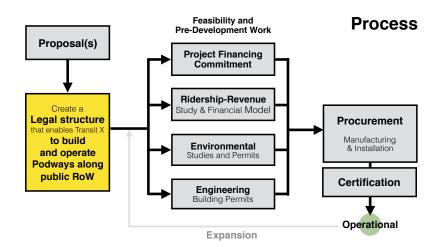
Not only does Transit X not require public financing, but the local municipality and right-of-ways owners receive 5% of gross revenue, which would be US\$33 million per year average over the first 10 years. For specifics, please see the "Taxes and Fees" section of this proposal.

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 municipality or rights-of-way owner. We would refine a proposal to meet your needs, then ask for a letter stating that you would like to move forward with a proposal that includes air rights and and an operating agreement. 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 ride-sharing 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 transitx.com/process/mou.html) 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)
- Example Resolution (transitx.com/process/resolution.html)
- Operating Agreement (<u>transitx.com/process/operating_agreement.html</u>)
- General Q & A (<u>transitx.com/QandA.html</u>)

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 Bahrain through better transportation.

Sincerely,

Mike Stanley CEO, Transit X

Telephone: +1 508-596-7024 (also via WhatsApp)

Email: mike@transitx.com

Zoom eRoom: https://zoom.us/j/8229009123

Website: transitx.com

LinkedIn: http://linkedin.com/in/mikestanleymit/

Skype: mikestanley49 WeChat: MikeTransitX

Facebook Messanger: m.me/MikeStanleyMIT Twitter: https://twitter.com/MikeTransitX

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







	ansita.			
1	Transit X network length	126	km	
2	People (resident-equivalent) in region	1,425,171	resident-equivalent p	oopulation
3	Route density ratio (route length to service area)	0.55		
4	Number of stops	260		
5	Triple-speed route length	0	km	
6	Water crossing route length	0	km	
7	Cost of fixed infrastructure	\$458,667,459		
8	per person	\$322		
9	Mode share of travel on Transit X	71%		
10	Distance traveled on Transit X, per year	9,582,024,274	km	
11	per day	26,252,121	km	
12	Daily potential energy generation with standard panels on tracks	971	MWh	
13	Sustainable energy use per day	298	MWh	31% of max capacity
14	Energy storage capital cost for 1 day(s) of supply at \$800 per kWh	\$238,266,435		
15	Size (rated power) of solar installation	69,241	KW	
16	Cost to generate sustainable energy (at \$2,000 per kWh)	\$138,482,880		
17	Cost of buying sustainable energy at \$0.15 per kWh	\$44,675	per day	30% of OPEX
18	Daily passengers riding Transit X	1,008,634	customers	71% of the pop.
19	Distance per passenger per day	26	km	
20	Average distance per trip (assuming 3 trips per day)	9	km	
21	Single passenger fare for shared 9 km trip	\$0.39	1	BHD
22	Passenger distance traveled during peak hour	5,250,424	km	
23	Breakeven	311,785	customers per day	
24		,	(24% of people conv	enient to Transit X)
25	Number of pods for peak demand	23,268	pods	
26	Number of customers per pod	•	and 61 people per	nod
		40.0		
27				pou
27 28	Distance per pod per year	168,193 25,595	km	0.1% of car parking
		168,193 25,595	km m ²	
28	Distance per pod per year Two-layer pod garage area (19% of route with side-parking)	168,193 25,595 \$151,242,000	$$km$ $$m^2$$ is \$82 per person	0.1% of car parking
28 29 30	Distance per pod per year Two-layer pod garage area (19% of route with side–parking) Cost of pods Capital cost of energy generation and storage	168,193 25,595 \$151,242,000	km m ²	0.1% of car parking
28 29 30	Distance per pod per year Two-layer pod garage area (19% of route with side–parking) Cost of pods Capital cost of energy generation and storage roject Finances	168,193 25,595 \$151,242,000 \$489,774,109	km m² is \$82 per person is \$344 per persor	0.1% of car parking
28 29 30 31 P	Distance per pod per year Two-layer pod garage area (19% of route with side–parking) Cost of pods Capital cost of energy generation and storage roject Finances Total Project Cost (privately financed)	168,193 25,595 \$151,242,000 \$489,774,109 \$1,099,683,568	km m² is \$82 per person is \$344 per persor 2,914,161,455	0.1% of car parking
28 29 30 31 P 32	Distance per pod per year Two-layer pod garage area (19% of route with side–parking) Cost of pods Capital cost of energy generation and storage roject Finances Total Project Cost (privately financed) Project cost	168,193 25,595 \$151,242,000 \$489,774,109 \$1,099,683,568 \$8,695,957	km m² is \$82 per person is \$344 per persor 2,914,161,455 per km	0.1% of car parking
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28 29 30 31 P 32 33 34	Distance per pod per year Two-layer pod garage area (19% of route with side–parking) Cost of pods Capital cost of energy generation and storage roject Finances Total Project Cost (privately financed) Project cost Equity	168,193 25,595 \$151,242,000 \$489,774,109 \$1,099,683,568 \$8,695,957 \$329,905,070	km m ² is \$82 per person is \$344 per persor 2,914,161,455 per km 874,248,437	0.1% of car parking BHD BHD
28 29 30 31 P 32 33 34 35	Distance per pod per year Two-layer pod garage area (19% of route with side–parking) Cost of pods Capital cost of energy generation and storage roject Finances Total Project Cost (privately financed) Project cost Equity	168,193 25,595 \$151,242,000 \$489,774,109 \$1,099,683,568 \$8,695,957 \$329,905,070	km m ² is \$82 per person is \$344 per persor 2,914,161,455 per km 874,248,437	0.1% of car parking BHD BHD
28 29 30 F 31 P 32 33 34 35 36 37 38	Distance per pod per year Two-layer pod garage area (19% of route with side–parking) Cost of pods Capital cost of energy generation and storage roject Finances Total Project Cost (privately financed) Project cost Equity Financed	168,193 25,595 \$151,242,000 \$489,774,109 \$1,099,683,568 \$8,695,957 \$329,905,070 \$769,778,498	km m ² is \$82 per person is \$344 per persor 2,914,161,455 per km 874,248,437 2,039,913,019	0.1% of car parking BHD BHD BHD
28 29 30 31 P 32 33 34 35 36 37 38 39	Distance per pod per year Two-layer pod garage area (19% of route with side–parking) Cost of pods Capital cost of energy generation and storage roject Finances Total Project Cost (privately financed) Project cost Equity Financed Debt service	168,193 25,595 \$151,242,000 \$489,774,109 \$1,099,683,568 \$8,695,957 \$329,905,070 \$769,778,498	km m ² is \$82 per person is \$344 per persor 2,914,161,455 per km 874,248,437 2,039,913,019	0.1% of car parking BHD BHD BHD
28 29 30 31 P 32 33 34 35 36 37 38 39 40	Distance per pod per year Two-layer pod garage area (19% of route with side–parking) Cost of pods Capital cost of energy generation and storage roject Finances Total Project Cost (privately financed) Project cost Equity Financed	168,193 25,595 \$151,242,000 \$489,774,109 \$1,099,683,568 \$8,695,957 \$329,905,070 \$769,778,498	km m ² is \$82 per person is \$344 per persor 2,914,161,455 per km 874,248,437 2,039,913,019	0.1% of car parking BHD BHD BHD
28 29 30 31 32 33 34 35 36 37 38 39 40 41	Distance per pod per year Two-layer pod garage area (19% of route with side–parking) Cost of pods Capital cost of energy generation and storage roject Finances Total Project Cost (privately financed) Project cost Equity Financed Debt service	168,193 25,595 \$151,242,000 \$489,774,109 \$1,099,683,568 \$8,695,957 \$329,905,070 \$769,778,498	km m ² is \$82 per person is \$344 per persor 2,914,161,455 per km 874,248,437 2,039,913,019	0.1% of car parking BHD BHD BHD
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28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	Distance per pod per year Two-layer pod garage area (19% of route with side–parking) Cost of pods Capital cost of energy generation and storage roject Finances Total Project Cost (privately financed) Project cost Equity Financed Debt service Fees and taxes (US\$35 per capita) OPEX + Debt service + Tax + Fees	168,193 25,595 \$151,242,000 \$489,774,109 \$1,099,683,568 \$8,695,957 \$329,905,070 \$769,778,498 \$115,466,775 \$49,465,232	km m ² is \$82 per person is \$344 per persor 2,914,161,455 per km 874,248,437 2,039,913,019	0.1% of car parking BHD BHD BHD BHD BHD
28 29 30 31 P 32 33 34 35 36 37 38 39 40 41 42 43 44	Distance per pod per year Two-layer pod garage area (19% of route with side–parking) Cost of pods Capital cost of energy generation and storage roject Finances Total Project Cost (privately financed) Project cost Equity Financed Debt service Fees and taxes (US\$35 per capita) OPEX + Debt service + Tex + Fees Project costs — per person	168,193 25,595 \$151,242,000 \$489,774,109 \$1,099,683,568 \$8,695,957 \$329,905,070 \$769,778,498 \$115,466,775 \$49,465,232	km m² is \$82 per person is \$344 per persor 2,914,161,455 per km 874,248,437 2,039,913,019 305,986,953 131,082,865	0.1% of car parking BHD BHD BHD BHD BHD BHD
28 29 30 31 P 32 33 34 35 36 37 38 39 40 41 42 43 44 45	Distance per pod per year Two-layer pod garage area (19% of route with side–parking) Cost of pods Capital cost of energy generation and storage roject Finances Total Project Cost (privately financed) Project cost Equity Financed Debt service Fees and taxes (US\$35 per capita) OPEX + Debt service + Tax + Fees Project costs — per person Number of motor vehicles displaced	168,193 25,595 \$151,242,000 \$489,774,109 \$1,099,683,568 \$8,695,957 \$329,905,070 \$769,778,498 \$115,466,775 \$49,465,232 \$772 958,202	km m² is \$82 per person is \$344 per persor 2,914,161,455 per km 874,248,437 2,039,913,019 305,986,953 131,082,865	0.1% of car parking BHD BHD BHD BHD BHD BHD
28 29 30 31 P 32 33 34 35 36 37 38 39 40 41 42 43 44 45	Distance per pod per year Two-layer pod garage area (19% of route with side–parking) Cost of pods Capital cost of energy generation and storage roject Finances Total Project Cost (privately financed) Project cost Equity Financed Debt service Fees and taxes (US\$35 per capita) OPEX + Debt service + Tax + Fees Project costs — per person Number of motor vehicles displaced Yearly cost of cars displaced — per person	168,193 25,595 \$151,242,000 \$489,774,109 \$1,099,683,568 \$8,695,957 \$329,905,070 \$769,778,498 \$115,466,775 \$49,465,232 \$772 958,202 \$6,051	km m² is \$82 per person is \$344 per persor 2,914,161,455 per km 874,248,437 2,039,913,019 305,986,953 131,082,865	0.1% of car parking BHD BHD BHD BHD BHD BHD
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	Distance per pod per year Two-layer pod garage area (19% of route with side-parking) Cost of pods Capital cost of energy generation and storage roject Finances Total Project Cost (privately financed) Project cost Equity Financed Debt service Fees and taxes (US\$35 per capita) OPEX + Debt service + Tex + Fees Project costs — per person Number of motor vehicles displaced Yearly cost of cars displaced — per person Operating costs per passenger-km	168,193 25,595 \$151,242,000 \$489,774,109 \$1,099,683,568 \$8,695,957 \$329,905,070 \$769,778,498 \$115,466,775 \$49,465,232 \$772 958,202 \$6,051 \$0.01	km m² is \$82 per person is \$344 per person 2,914,161,455 per km 874,248,437 2,039,913,019 305,986,953 131,082,865 2,045 motor vehicles 16,035	0.1% of car parking BHD BHD BHD BHD BHD BHD



Impact of proposed network

1	Reduction in GHG emissions (in metric tons of CO2-eq)	946,225 MTCO2-eq
2	Est. cost to maintain 464 km roadway	\$23,647,867
3	Reduced waste products per year	153,552 metric tons
4	Travel time saved per year	462 hrs/person
5	Cost savings per capita per year from reduced car ownership	\$5,185
6	Increase in household income from time saving and car costs	219%
7	Reported injuries avoided per year	5,941
8	Lives saved per year	59
9	Land freed from parking (5,446 acres)	22,038,656 m ²
10	and its commercial value	\$1,101,933 per year
11	Health care savings	High

Model Inputs

	model inpo	410		
15	Ratio of road length to track length	4		
16	Walking speed		km/h	
17	Width of convenient swath along track	1.63	km	
18	Fixed cost per km. Solar+storage not included.	\$2,790,000	7,393,500	BHD
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	
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	42,309	pph	
27	Average dwell time during peak hour		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	3.9	passengers	
32	Average passengers per pod	2.4	passengers	
	Average discount per passenger	27%		
33	Maximum passengers per pod	5	passengers	
34	Empty pods: Percentage non-revenue	25%		
35	Ex-Factory cost per pod	\$5,000	13,250	BHD
36	Worldwide Median Income per Household (US\$)	10,000	26,500	BHD
37	Average number of residents per household	2.3		BHD
38	Base fare per km	\$0.07		BHD
39	(per mile)	\$0.12	0.3	BHD
40	O&M as % of project cost	5%		
41	Percentage debt financed	70%		
42	Length of loan/debt		years	
43	Interest rate for debt	5%		
44	kg CO2 emissions per liter of gasoline	2.37	_	
45	Monetary value of 1 hour personal time (USD)	0.625		BHD
46	Eat. roadway maintenance per year per km	\$51,000	135,150	BHD
47	Area of one parking lot space		m ²	DUD
48	Commercial income of land		per m ²	BHD
49	Distance from roadway that is convenient	0.49	KM	
50	Stops per km	2.0		
51	Solar panel area per meter of track Cost of sustainable energy and storage	2.0	per kWh	
52	Global Horizontal Irradiance (GHI)		kWh/m²/day	
53 54	Cost to generate sustainable energy		per kW	
55	Energy storage cost		per kWh	
56	Energy storage cost		days	
57	Area of parked pod	2.20	•	
58	Distance discount at max distance	40%	111	
			Irma	
59	Max distance discount	500	KIII	
60	Max usage discount at 10,000 km per capita	50%		
61	Shared Pod Discount	20%		
62	Shared Pod Compartment Discount	40%		

Model Inputs (continued)

	Name of series or surject	Debusis
57	Name of region or project	Bahrain
58	Currency name	BHD
59	Equal to US\$1	2.65
60	Sustainable energy/electricity generation & storage as	CAPEX
61	Land area of region (sq. km)	765
62	Number of residents in region	1,425,171
63	% travel within region	95%
64	% of land area served by roads	30%
65	Coverage: % of pop. convenient (10 min walk) to Transit X	90%
66	Median household income (US\$)	2,500
67	Convenient walk time to stop (min)	10
68	Triple-speed route length (km)	0
69	Water crossing route length (km)	0.0
70	Visitors per year	0
71	Average length of visit (days)	2
72	Solar production ratio	1.57
73	Regional Fare Factor	1.0
74	EPC costs & contingency	30%
75	Triple-speed (km/h)	242

Pod & Car

	Pod	Car
Service life (years)	20	12
Full cost of vehicle per year	\$200	\$9,000
Public cost to maintain infrastructure (per km)	\$0	\$100,000
Energy Efficiency in MPGe	1188	24
Energy Efficiency in liters/100km	0.20	9.8
Energy used (Watt-hours/km)	28	1375
mass of CO2 per vehicle per km (kg)	0	0.09875
Vehicle mass (kg)	45	1950
Average speed of urban travel (km/h)	72	16
Typical travel time (in minutes) for 9 km trip	7	33
Fare/cost per km	\$0.07	\$0.62
Number of deaths per 100M passenger-km	0.00001	1
Number of injuries per 100M passenger-km	0.0006	62
Volume to park (cubic meters)	5.7	70.9



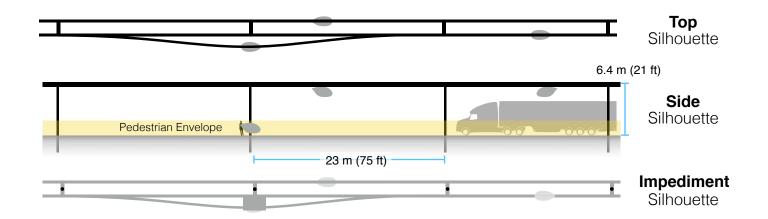
4% of gross revenue proportioned to air rights owners and a municipal fee/tax of 1% of gross revenue. Both air rights and fee/tax have a minimum payment based on the Footprint and the Transit X Commercial Rate (TXCR).

Municipal rates

	•		
2	Total commercial land (estimated)	22,950,000 m ²	
3	Total commercial muni revenue (US\$)	\$1,147,500	3,040,875 BHD
4	TXCR (Transit X Commercial Rate)	\$0.05 per m ²	0.1 BHD
5	TXCR is the yearly tax rate per land area. Calculation: total land area of commercial properties in the municipality, divided by all the municipal income generated by those properties. The TXCR is used to calculate the minimum tax/ fee.		
6	Project Revenue		
7	Length of Transit X route	126 km	
8	Estimated gross revenue per unit length	\$7,823,114 per km	20,731,253 BHD
9			
	_		
10	Government Tax	% of gross revenue with minimum.	
10	Government Tax 1% gross revenue	% of gross revenue with minimum. \$78,231 per route-km	207,313 BHD
			207,313 BHD
11	1% gross revenue	\$78,231 per route-km	
11	1% gross revenue Minimum per year	\$78,231 per route-km \$83 per route-km	
11 12 13	1% gross revenue Minimum per year Air Rights Leasing Fee	\$78,231 per route-km \$83 per route-km % of gross revenue with minimum. P	
11 12 13	1% gross revenue Minimum per year Air Rights Leasing Fee % of route on municipal land	\$78,231 per route-km \$83 per route-km % of gross revenue with minimum. P	roportioned based on length.
11 12 13 14 15	1% gross revenue Minimum per year Air Rights Leasing Fee % of route on municipal land 4% gross revenue	\$78,231 per route-km \$83 per route-km % of gross revenue with minimum. P 90% \$312,925 per route-km	roportioned based on length.
11 12 13 14 15 16	1% gross revenue Minimum per year Air Rights Leasing Fee % of route on municipal land 4% gross revenue Minimum per year	\$78,231 per route-km \$83 per route-km % of gross revenue with minimum. P 90% \$312,925 per route-km \$83 per route-km	roportioned based on length.
11 12 13 14 15 16	1% gross revenue Minimum per year Air Rights Leasing Fee % of route on municipal land 4% gross revenue Minimum per year Taxes, Fees	\$78,231 per route-km \$83 per route-km % of gross revenue with minimum. P 90% \$312,925 per route-km \$83 per route-km	roportioned based on length. 829,250 BHD
11 12 13 14 15 16 17	1% gross revenue Minimum per year Air Rights Leasing Fee % of route on municipal land 4% gross revenue Minimum per year Taxes, Fees Paid to Municipality	\$78,231 per route-km \$83 per route-km % of gross revenue with minimum. P 90% \$312,925 per route-km \$83 per route-km	roportioned based on length. 829,250 BHD 120,596,236 BHD

Footprint calculations for minimum fee

Yearly fees and taxes



1	Footprint Calculations	Metric	Imperial	
2	Track width	<u>0.41</u> m		
3	Track height	<u>0.61</u> m		
4	Pole diameter	<u>0.3</u> m		
5	Pole cross section	<u>0.07</u> m ²		
6	Stop landing area	2 m ²		
7	width	<u>2</u> m		
8	length	<u>1</u> m		
9	Ramp length	<u>21</u> m		
10	Pole span	<u>23</u> m		
11	Number of poles per unit length	<u>43.5</u> pole	es per km	
12	Pole height	<u>6</u> m		
13				
14	Single track	1126.7 m ²		
15	Area of Side Silhouette	688.3 m ²		
16	Area of Top Silhouette	423.1 m ²		
17	Impediment Area (adjusted)	15.4 m ²		
18				
19	Dual track	1536.7 m ²		
20	Area of Side Silhouette	688.3 m ²		
21	Area of Top Silhouette	833.1 m ²		
22	Impediment Area (adjusted)	15.4 m ²		
23	· · · · · · · · · · · · · · · · · · ·			
24	Stop	57.8 m ²		
25	Area of Side Silhouette	25.6 m ²		
26	Area of Top Silhouette	22.2 m ²		
27	Impediment Area (adjusted)	10.0 m ²		
28				
29	Stops	2 stop	os per km	
30	% of dual track	100%		
31				
32	Average area per unit length	1,652 m ²	per route-km	
33				
34	Contract values			
35	% gross revenue for muni tax/fee	1%		
36	% gross revenue for air rights (RoW)	4%		
37	% gross revenue for RoW+tax+fee	5%		
38	Impediment Factor	5		



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

At 0.12 BHD per km, a typical commute on Transit X is 2% more than public transit and 3.1 times less than a Taxi.*

	Trip Length						
All prices in BHD	2 km	10 km	40 km				
Transit X	0.24 to 0.39 2 min., 3.6x faster	1.16 to 1.95 8 min., 3.6x faster	4.47 to 7.62 33 min., 3.4x faster				
Current Modes	0.95 0.76 to 1.37	1.61 0.76 to 6.28	2.86 1.51 to 24.70				
Taxi	1.37 2 to 6 minutes	6.28 8 to 30 minutes	24.70 30 to 120 minutes				
Uber/Lyft/TNC	1.02 2 to 6 minutes	4.39 8 to 30 minutes	16.99 30 to 120 minutes				
Public Bus	0.76 3 to 12 minutes	0.76 15 to 60 minutes	1.51 60 to 240 minutes				
Train	1.13 2 to 6 minutes	1.51 8 to 30 minutes	2.93 30 to 120 minutes				

	Avg. Speed	Low Speed	High speed				Min Dist	Max Dist.	Time cost		de sh 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	0.76	1	0.38	0.5	100	0.47	5%	4%	1%
Uber/Lyft/TNC	30	20	80	0.60	1	0.30	0.5	100	0.24	10%	10%	2%
Public Bus	15	10	40	0.76	20	0.04	0.5	50	0	50%	50%	40%
Train	30	20	80	1.13	2	0.05	2	100	0	35%	36%	57%
Transit X	72	72	72	0	0	0.12	0.1	50	0	-	-	-

^{*} All numbers on mode shares, speeds, and costs are estimates and would need to be checked and verified.

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.



Fair Fare Formula

	Formula Name	Value	Units	Description of the value or model input
1	GlobalIncome	26,500	BHD	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	0.23	BHD/km	Global rate: Globalincome * PercentincomeForTransport / AllTravel
5	MedianIncomeOrigin	6,625	BHD	Median household income at origin. External input. Based on reliable public data source updated annually.
6	MedianIncomeDest	6,625	BHD	Median household income at destination. External input. Based on reliable public data updated annually.
7	RegionalRate	0.06	BHD/km	Regional rate based on median income: MedianIncomeOrigin * PercentIncomeForTransport / AllTravel
8	UnderIncomeRate	0.17	BHD/km	Under global income adjustment: if (RegionalRate < GlobalRate, GlobalRate - RegionalRate, 0)
9	NominalRate	0.23	BHD/km	Nominal rate: RegionalRate + UnderIncomeRate
10	RegionalFactor	1.00	DLID/Israe	Regional Fare Factor. Negotiated upfront to make network financially viable.
11	AdjustedRate	0.23	BHD/km	Regional adjusted rate: NominalRate * RegionalFactor
13	Population	1,425,171		Population in region. Updated annually based on trusted public data source. Fare Discount when Transit X travel per household equals AllTravel. Global
12	UsageMaxDiscount	50%		constant. Total passenger distance traveled previous calendar year. Based on expected
14	PassengerTravel	9,582,024,274	km	mode share for first 3 years. Based on actual passenger trips. Audited. Percent of Total Travel Per Capita on Transit X:
15	ModeShare	29%		PassengerTravel / (Population x AllTravel)
16	BaseRate	0.20	BHD/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	0.43	BHD/km	Base rate for high-speed travel or water crossings: BaseRate * SpecialRateFactor
19	DistanceDiscount MaxDistanceDiscount	40% 500	km	Distance discount at max distance. Global constant. Max distance discount. Global constant.
20	MaxDistanceDiscount	500		Discount amount per km:
21	DistanceDiscountPerKm SeniorDiscount	0.000157 20%	BHD/km	BaseRate x DistanceDiscount / MaxDistanceDiscount Senior discount set according to local regulations
23	StudentDiscount	20%		Student discount set according to local regulations
20	DisabilityDiscount	20%		Disability discount set according to local regulations
24	DiscountBaseRate	0.16	BHD/km	Discounted base rate: BaseRate x (1 - SeniorDiscount)
25	SharedPodDiscount	20%	DIID/KIII	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	0.16	BHD/km	Rate for a shared pod: BaseRate x (1 - SharedPodDiscount)
	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	0.12	BHD/km	Rate for shared compartment BaseRate x (1 - SharedCompartmentDiscount)
29		0.13	BHD/km	Rate for 500 km in single–passenger pod.
30	Senior + SharedCompartmentRate	0.06	BHD/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	DistanceBase	7,090,697,963	km	Passenger distance under base fare. Audited value from operational data.
32	PercentBase	74%		Percent of passenger distance under base fare: DistanceBase / PassengerTravel
33	BaseRevenue	1,017,460,789	BHD	Annual revenue from all travel under base rate. Audited value from operational data.
34	AverageDiscount	27%		Average fare discount from Base Rate: 1 - (BaseRevenue / (DistanceDase x BaseRate))
35	MarketFactor	1.0		Market rate factor. Negotiated value for setting ratio of AverageDiscount
36	MarketRateCap	27%		Cap on passenger travel distance at market rate: AverageDiscount x MarketFactor
37	MarketTravelCap	1,919,468,333	km	Cap on passenger travel distance at market rate: DistanceBase x MarketRateCap

Project Summary

Project Solar-powered automated

Description transportation network infrastructure

Project type Privately-funded Green Infrastructure

Project cost \$1.10 billion

Structure Privately financed equity and debt

Debt term 10 years @ 5%

Equity terms A waterfall profit distribution with:

1. 90/10 split until Return of Capital,

2. then 50/50 until Target IRR met

3. then 10/90 onwards

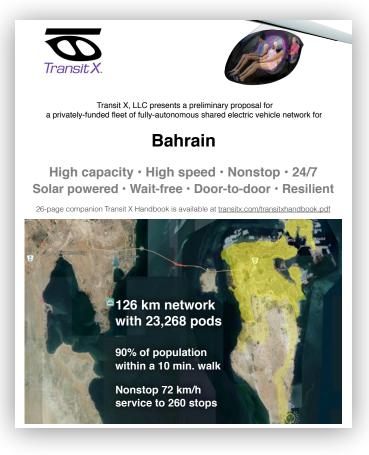
Benefits to society and environment

Extremely high

Financials

(US\$ in millions)

	Year 1	Total Years 1-12
Gross Revenues	330	8,030
Taxes and fees	17	402
Debt service	\$100	\$997



About Transit X

Transit X designs, builds, and operates solar-electric shared mobility infrastructure to supplant buses, trains, cars, and trucks. Transit X offers its service to municipalities and commercial developers. First pilots will begin operations by 2019. Transit X is a privately held company founded in 2015, based in Boston, Mass, and intends to be certified as a public benefit company.

Now

Status

					11011	1 1101 10 01030
				Project financing	Letter of Interest	Yes
ESG (Environmen	tal, S	ocial, Governance) Benefi	ts	Demonstration system	In development	Yes
01		Daailianau		Rider-Revenue study	Proposals	Yes
Clean energy	yes	Resiliency	yes	Environmental study		Yes
Energy security	yes	Sustainable	yes	Air rights	Resolution	Ordinance
Emissions-free	yes	Equitable	yes	Permits	Known process	Yes
GHG-free	yes	Recyclable mat.	yes	Safety certification	Guar. fixed price	Yes
Lowers pollution	yes	Affordable housing	yes	Installation	Letter of intent	Guar. fixed price
Clean water	yes	Improved Health	yes	Operations & Maint	Letter of intent	Guar. fixed price
Improved Safety	yes	Economic Devel.	yes	Project Management	Appointed	Yes
Fixe Infrastructure	yes	Food security	yes	EPC	Appointed	Yes

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

Prior to close



Model Inputs and Assumptions

Route length (km) 126

Starting number of pods 7,756

Projected revenue growth 15%

Project Cost (Privately funded) \$1,099,683,568

% Debt financed 70%

Debt \$769,778,498

Equity \$329,905,070

Capital return per year \$65,981,014

Debt payment (per year) \$99,689,837

Travel per year per pod (km) 168,193

Revenue per vehicle-km (US\$) 0.25

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

	Years	0	1	2	3	4	5	6	7	8	9	10	11	12
Revenue		0	329,768,214	379,233,446	436,118,463	501,536,232	576,766,667	663,281,667	762,773,917	877,190,005	1,008,768,505	1,160,083,781	1,334,096,348	1,534,210,801
5% RoW÷tax÷f	ee	0%	16,488,411	18,961,672	21,805,923	25,076,812	28,838,333	33,164,083	38,138,696	43,859,500	50,438,425	58,004,189	66,704,817	76,710,540
Debt service		0	\$99,689,837	\$99,689,837	\$99,689,837	\$99,689,837	\$99,689,837	\$99,689,837	\$99,689,837	\$99,689,837	\$99,689,837	\$99,689,837	0	0
Investor balance	ce		-\$239,816,535	-\$145,606,239	-\$46,655,919	\$57,745,430	\$168,415,461	\$286,294,478	\$359,679,015	\$442,597,435	\$536,479,821	\$642,970,765	\$773,930,538	\$921,565,130

Important Notices

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