



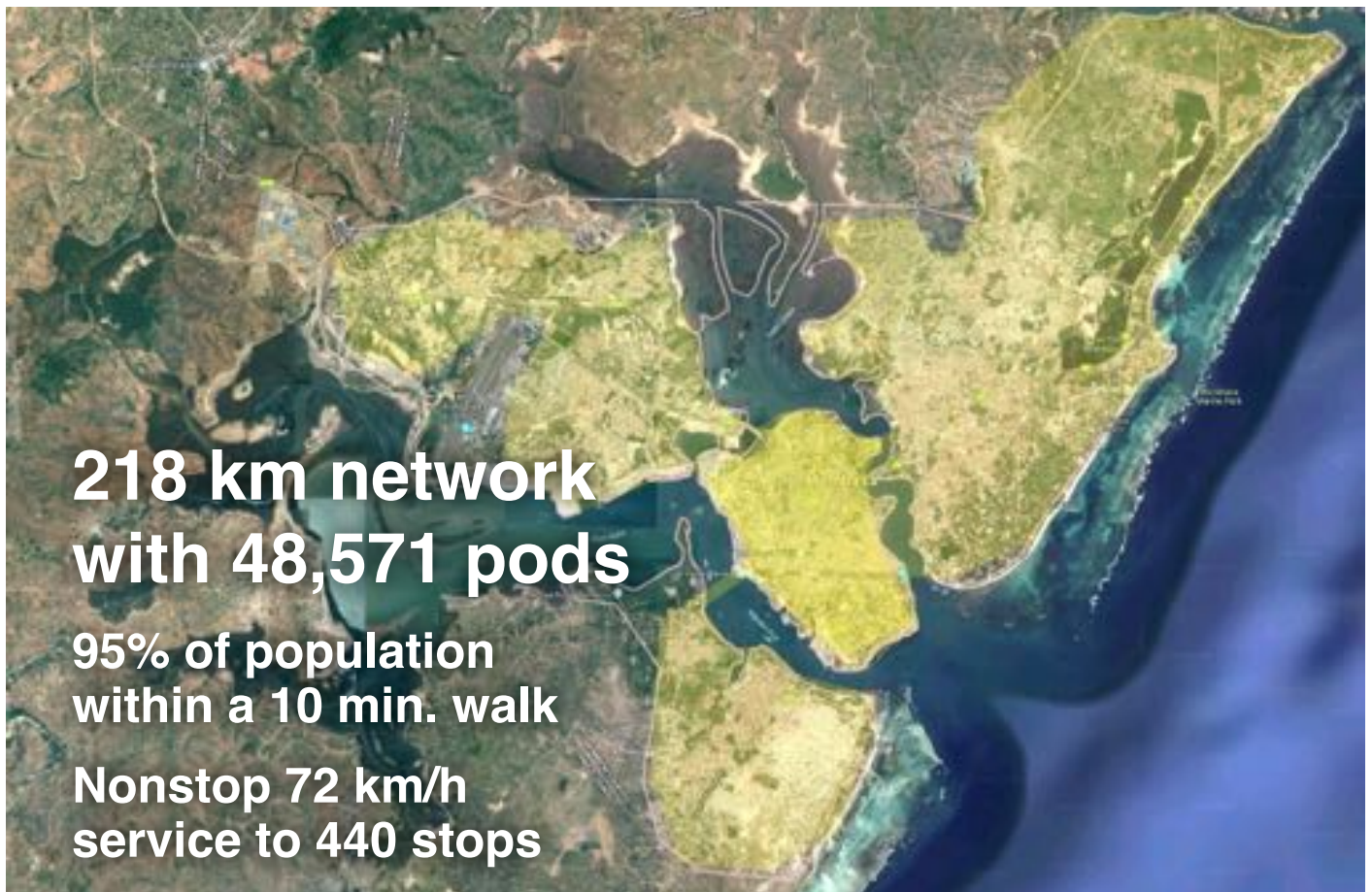
Transit X, LLC presents a preliminary proposal for a privately-funded fleet of fully-autonomous shared electric vehicles on local and regional podway network for

# Mombasa, Kenya

This proposal is downloadable at [transitx.com/proposals/Transit\\_X\\_for\\_Mombasa,Kenya.pdf](https://transitx.com/proposals/Transit_X_for_Mombasa,Kenya.pdf)

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

A 26-page companion Transit X Handbook is available at [transitx.com/transitxhandbook.pdf](https://transitx.com/transitxhandbook.pdf)



**218 km network  
with 48,571 pods**

**95% of population  
within a 10 min. walk**

**Nonstop 72 km/h  
service to 440 stops**

**Transit X proposes to build and operate a privately-financed pod network to carry passengers and freight for Mombasa, Kenya 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](http://transitx.com) for more details. This 3-minute video ([transitx.com/video](http://transitx.com/video)) describes our innovative solution.

**Major benefits**

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



The Transit X Handbook ([transitx.com/transitxhandbook.pdf](http://transitx.com/transitxhandbook.pdf)) 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 be 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. These 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\$70 million

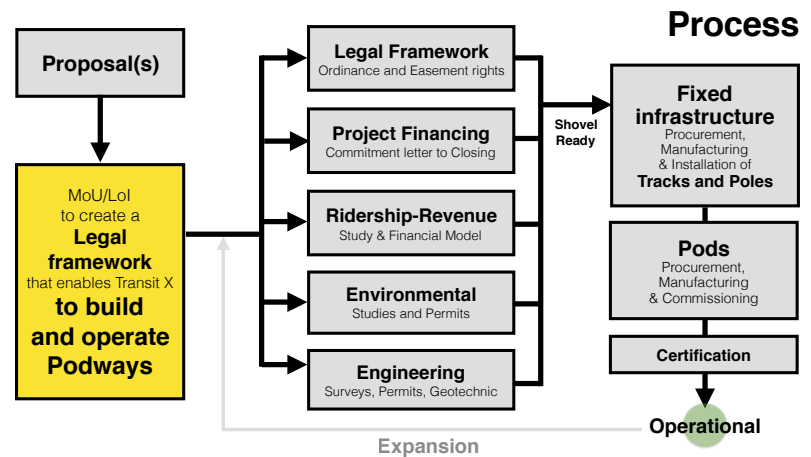
per year average over the first 10 years. For specifics, please see the "Taxes and Fees" section of this proposal. These fees and taxes paid by Transit X enables lower taxes or more spending on public services.

## 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](http://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](http://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](http://transitx.com/video))
- Transit X Handbook ([transitx.com/transitxhandbook.pdf](http://transitx.com/transitxhandbook.pdf))
- Letters of Project Financing, Due Diligence, Contracts ([transitx.com/letters.pdf](http://transitx.com/letters.pdf))
- Example Resolution ([transitx.com/process/resolution.html](http://transitx.com/process/resolution.html))
- Operating Agreement ([transitx.com/process/operating\\_agreement.html](http://transitx.com/process/operating_agreement.html))
- General Q & A ([transitx.com/QandA.html](http://transitx.com/QandA.html))

### **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 Mombasa through better transportation.

Sincerely,



Mike Stanley  
CEO, Transit X

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1	<b>Transit X network length</b>	<b>218 km</b>	
2	People (resident-equivalent) in region	3,000,000	resident-equivalent population
3	Route density ratio (route length to service area)	0.58	
4	Number of stops	440	
5	Triple-speed route length	0 km	
6	Water crossing route length	0 km	
7	<b>Cost of fixed infrastructure</b>	<b>\$791,093,112</b>	
8	...per person	\$264	
9	Mode share of travel on Transit X (25% after first year)	75% after 10 years	
10	Distance traveled on Transit X, per year	20,170,262,250 km	
11	...per day	55,260,992 km	
12	Daily potential energy generation with standard panels on tracks	1,675 MWh	
13	Sustainable energy use per day	207 MWh	12% of max capacity
14	Energy storage capital cost for 1 day(s) of supply at \$100 per kWh	\$20,723,487	
15	Size (rated power) of solar installation	48,179 KW	
16	Cost to generate sustainable energy (at \$1,000 per kW)	\$48,178,808	
17	Cost of buying sustainable energy at \$0.15 per kWh	\$31,085 per day	19% of OPEX
18	Daily passengers riding Transit X	2,241,140 customers	75% of the pop.
19	Distance per passenger per day	25 km	
20	Average distance per trip (assuming 3 trips per day)	8 km	
21	<b>Single passenger fare for shared 8 km trip</b>	<b>\$0.37</b>	38 Shilling
22	Passenger distance traveled during peak hour	11,052,198 km	
23	<b>Breakeven</b>	<b>432,967</b>	customers per day
24			(15% of people convenient to Transit X)
25	<b>Number of pods for peak demand</b>	<b>48,571</b>	pods at 75% mode share
26	Number of customers per pod	46.1	and 62 people per pod
27	Distance per pod per year	168,191 km	
28	Two-layer pod garage area (23% of route with side-parking)	53,428 m <sup>2</sup>	0.1% of car parking
29	Cost of pods	\$315,711,500	is \$81 per person
30	Capital cost of energy generation and storage	\$89,572,984	is \$30 per person
31	<b>Project Finances</b>		
32	Total Project Cost (privately financed)	\$1,196,377,597	123,226,892,455 Shilling
33	Project cost	\$5,485,146	per km
34	Equity	\$358,913,279	36,968,067,737 Shilling
35	Private debt financing	\$837,464,318	86,258,824,719 Shilling
36			
37			
38			
39	Debt service (per year)	\$125,619,648	12,938,823,708 Shilling
40	<b>Yearly fees and taxes (US\$35 per capita)</b>	<b>\$103,879,444</b>	10,699,582,697 Shilling
41	OPEX + Debt service + Tax + Fees	\$289,317,971	29,799,751,026 Shilling
42			
43			
44	Project costs — per person	\$399	41,076 Shilling
45	Number of motor vehicles displaced	2,017,026	motor vehicles
46	Yearly cost of cars displaced — per person	\$6,051	623,261 Shilling
47	Operating costs per passenger-km	\$0.00	
47	Full costs per passenger-km	\$0.01	
48	Breakeven revenue distance per day	10,675,902 km	
49	Number of tracks in one direction needed to satisfy peak demand	<b>0.20</b>	



### Impact of proposed network

1	<b>Reduction in GHG emissions (metric tons CO2-eq)</b>	1,991,813 MTCO2-eq annually
2	<b>Estimated cost to maintain public roadways</b>	\$38,640,306 annually
3	<b>Reduced waste products</b>	323,228 metric tons annually
4	<b>Travel time saved</b>	438 hrs/person annually
5	<b>Cost savings from reduced car ownership</b>	\$4,912 per person annually
6	<b>Increase in household income from time savings and car costs</b>	338%
7	<b>Reported injuries avoided</b>	12,506 annually
8	<b>Lives saved</b>	125 annually
9	<b>Land freed from parking (11,463 acres)</b>	46,391,603 m <sup>2</sup>
11	<b>Health care savings</b>	High

### Model Inputs

15	Ratio of road length to track length	4	
16	Walking speed	4.9 km/h	
17	Width of convenient swath along track	1.63 km	
18	Fixed cost per km. Solar+storage not included.	\$2,790,000	287,370,000 Shilling
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	42,665 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	4.0 passengers	
32	Average passengers per pod	2.5 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	515,000 Shilling
36	Worldwide Median Income per Household (US\$)	10,000	1,030,000 Shilling
37	Average number of residents per household	2.3	Shilling
38	Base fare per km	\$0.07	7.6 Shilling
39	(per mile)	\$0.12	12.3 Shilling
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	5%	
44	kg CO2 emissions per liter of gasoline	2.37	
45	Monetary value of 1 hour personal time (USD)	\$0	39 Shilling
46	Eat. roadway maintenance per year per km	\$51,000	5,253,000 Shilling
47	Area of one parking lot space	23 m <sup>2</sup>	
48	Commercial income of land (annual)	\$0 per m <sup>2</sup>	Shilling
49	Distance from roadway that is convenient	0.49 km	
50	Stops per km	2.0	
51	Solar panel area per meter of track	2.0	
52	Cost of sustainable energy and storage	\$0.15 per kWh	
53	Global Horizontal Irradiance (GHI)	3.8 kWh/m <sup>2</sup> /day	
54	Cost to generate sustainable energy	\$1,000 per kW	
55	Storage per column	40 kWh	
56	Typical span	23 m	cols/km: 44
57	Energy storage cost	\$100 per kWh	
58	Energy storage capacity	1 days	
59	Area of parked pod	2.20 m <sup>2</sup>	
60	Distance discount at max distance	40%	
61	Max distance discount	500 km	
62	Max usage discount at 10,000 km per capita	50%	
63	Shared Pod Discount	20%	
64	Shared Pod Compartment Discount	40%	
65	Mode share starting discount	67%	

URL sa, Kenya.pdf

### Model Inputs (continued)

66	Name of region or project	Mombasa, Kenya
67	Currency name	Shilling
68	Equal to US\$1	103
69	Sustainable energy/electricity generation & storage as	CAPEX
70	Land area of region (sq. km)	500
71	Number of residents in region	3,000,000
72	% travel within region	90%
73	% of land area served by roads	75%
74	Coverage: % of pop. convenient (10 min walk) to Transit X	95%
75	Median household income (US\$)	\$1,500
76	Convenient walk time to stop (min)	10
77	Triple-speed route length (km)	0
78	Water crossing route length (km)	0.0
79	Visitors per year	0
80	Average length of visit (days)	2
81	Solar production ratio	1.57
82	Regional Fare Factor	1.0
83	EPC costs & contingency	30%
84	Triple-speed (km/h)	242

### Pod & Car

		Pod	Car
85	Service life (years)	20	12
86	Full cost of vehicle per year	\$200	\$9,000
87	Public cost to maintain infrastructure (per km)	\$0	\$100,000
88	Energy Efficiency in MPGe	3564	24
89	Energy Efficiency in liters/100km	0.07	9.8
90	Energy used (Watt-hours/km)	9	1375
91	mass of CO2 per vehicle per km (kg)	0	0.09875
92	Vehicle mass (kg)	45	1950
93	Average speed of urban travel (km/h)	72	16
94	Typical travel time (in minutes) for 8 km trip	7	31
95	Fare/cost per km	\$0.07	\$0.62
96	Number of deaths per 100M passenger-km	0.00001	1
97	Number of injuries per 100M passenger-km	0.0006	62
98	Volume to park (cubic meters)	5.7	70.9



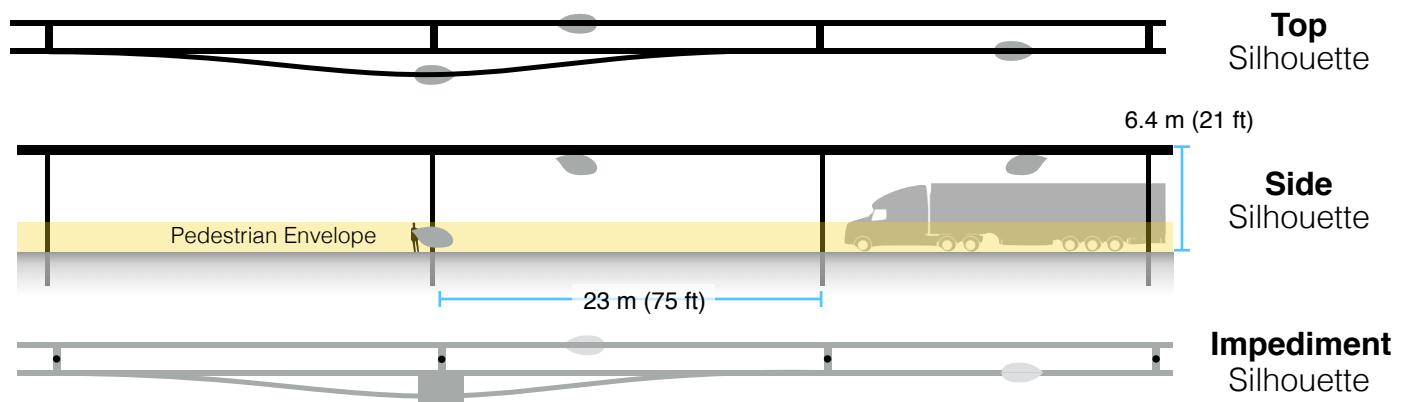
**5% of gross revenue is paid to government easement owners for all fees and taxes. When on a private easement, 4% is paid to the private owner and 1% to the government.** A minimum payment is based on the Footprint and the Transit X Commercial Rate (TXCR).

1	<b>Government Fees and Tax rate</b>	(for calculating minimums)	
2	Total commercial land (estimated)	37,500,000 m <sup>2</sup>	acres
3	Total commercial gov't revenue (US\$)	\$1,125,000	115,875,000 Shilling
4	<b>TXCR (Transit X Commercial Rate)</b>	\$0.03 per m <sup>2</sup>	3.1 Shilling
5	<i>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.</i>		
6			
7	<b>Private Easement Fees</b>		
8	<b>4% of gross revenue</b>	\$95.25 per route-meter	
9	<b>Minimum per year</b>	\$0.05 per route-meter	
10	<b>Government Fees and Taxes</b>		
11	% of route on government easements	98%	
12	<b>5% on government easements</b>	\$101,801,855	10,485,591,043 Shilling
13	<b>1% on private easements</b>	\$415,518	
14	<b>Total gov't fees and taxes</b>	<b>\$102,217,373</b> per year	10,528,389,374 Shilling
16	per resident	\$34	3,509 Shilling
15	<b>with a minimum of</b>	<b>\$11,044</b> per year	1,137,513 Shilling



# Footprint calculations for minimum fee

# Yearly fees and taxes



1	<b>Footprint Calculations</b>	Metric	Imperial
2	Track width	0.41 m	
3	Track height	0.61 m	
4	Pole diameter	0.3 m	
5	Pole cross section	0.07 m <sup>2</sup>	
6	Stop landing area	2 m <sup>2</sup>	
7	...width	2 m	
8	...length	1 m	
9	Ramp length	21 m	
10	Pole span	23 m	
11	Number of poles per unit length	43.5 poles per km	
12	Pole height	6 m	
13			
14	<b>Single track</b>	1142.1 m <sup>2</sup>	
15	...Area of Side Silhouette	688.3 m <sup>2</sup>	
16	...Area of Top Silhouette	423.1 m <sup>2</sup>	
17	...Impediment Area (adjusted)	30.7 m <sup>2</sup>	
18			
19	<b>Dual track</b>	1552.1 m <sup>2</sup>	
20	...Area of Side Silhouette	688.3 m <sup>2</sup>	
21	...Area of Top Silhouette	833.1 m <sup>2</sup>	
22	...Impediment Area (adjusted)	30.7 m <sup>2</sup>	
23			
24	<b>Stop</b>	67.8 m <sup>2</sup>	
25	...Area of Side Silhouette	25.6 m <sup>2</sup>	
26	...Area of Top Silhouette	22.2 m <sup>2</sup>	
27	...Impediment Area (adjusted)	20.0 m <sup>2</sup>	
28			
29	Stops with dedicated landing areas	2 stops per km	
30	% of dual track	100%	
31			
32	<b>Average area per unit length</b>	1,688 m <sup>2</sup> per route-km	
33			
34	<b>Contract values</b>		
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	



# Fair Fare Formula

**Summary**

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

**At 4.59 Shilling per km, a typical commute on Transit X is 17% less than public transit and 74% less than a Taxi.\***

All prices in Shilling		Trip Length		
		2 km	10 km	40 km
<b>Transit X</b>	<b>9.15</b>	<b>45.27</b>	<b>173.75</b>	
	to 15.27 2 min., 3.6x faster	to 75.86 8 min., 3.6x faster	to 296.11 33 min., 3.4x faster	
<b>Public transit average</b>	<b>51.30</b>	<b>81.60</b>	<b>119.62</b>	
Common public modes	<b>Taxi</b>	<b>71.12</b>	<b>309.72</b>	<b>1204.47</b>
		2 to 6 minutes	8 to 30 minutes	30 to 120 minutes
	<b>Uber/Lyft</b>	<b>54.14</b>	<b>223.00</b>	<b>856.21</b>
		2 to 6 minutes	8 to 30 minutes	30 to 120 minutes
<b>Public Bus</b>	<b>41.30</b>	<b>41.30</b>	<b>63.32</b>	
	3 to 12 minutes	15 to 60 minutes	60 to 240 minutes	
<b>Train</b>	<b>61.94</b>	<b>72.96</b>	<b>114.25</b>	
	2 to 12 minutes	8 to 60 minutes	30 to 240 minutes	
<b>Personal car</b>	<b>55.07</b>	<b>165.22</b>	<b>578.27</b>	
	2 to 6 minutes	8 to 30 minutes	30 to 120 minutes	

Travel mode	Avg. Speed	Low Speed	High speed	Base	Includ es km	Over per-km	Min Dist km	Max Dist. km	Time cost per min	Mode share		
	km/h	km/h	km/h							6%	70%	24%
Taxi	30	20	80	41.30	1	20.65	0.5	100	18.35	5%	4%	1%
Uber/Lyft	30	20	80	33.04	1	16.52	0.5	100	9.18	10%	10%	2%
Public Bus	15	10	40	41.30	20	1.10	0.5	50	0	50%	50%	40%
Train	30	10	80	61.94	2	1.38	2	100	0	35%	36%	57%
Transit X	72	72	72	0	0	4.59	0.1	50	0	-	-	-
Personal car	30	20	80	27.53	0	13.77	0.1	400	0.01	-	-	-

\* 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 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

Fare rates are updated annually using this formula

	Formula Name	Value	Units	Description of the value or model input
1	GlobalIncome	1,030,000	Shilling	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	8.96	Shilling/km	Global rate: <b>GlobalIncome * PercentIncomeForTransport / AllTravel</b>
5	MedianIncomeOrigin	\$154,500	Shilling	Median household income at origin. External input. Based on reliable public data source updated annually.
6	MedianIncomeDest	\$154,500	Shilling	Median household income at destination. External input. Based on reliable public data updated annually.
7	RegionalRate	1.34	Shilling/km	Regional rate based on median income: <b>MedianIncomeOrigin * PercentIncomeForTransport / AllTravel</b>
8	UnderIncomeRate	7.61	Shilling/km	Under global income adjustment: <b>if (RegionalRate &lt; GlobalRate, GlobalRate - RegionalRate, 0)</b>
9	NominalRate	8.96	Shilling/km	Nominal rate: <b>RegionalRate + UnderIncomeRate</b>
10	RegionalFactor	1.00		Regional Fare Factor. Negotiated upfront to make network financially viable.
11	AdjustedRate	8.96	Shilling/km	Regional adjusted rate: <b>NominalRate * RegionalFactor</b>
13	Population	3,000,000		Population in region. Updated annually based on trusted public data source.
12	UsageMaxDiscount	50%		Fare Discount when Transit X travel per household equals AllTravel. Global constant.
14	PassengerTravel	20,170,262,250	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	29%		Percent of Total Travel Per Capita on Transit X: <b>PassengerTravel / (Population x AllTravel)</b>
16	BaseRate	<b>7.65</b>	Shilling/km	<b>Base rate for single-passenger pod (without discounts)</b> <b>(1 - UsageMaxDiscount x min(1,ModeShare)) x AdjustedRate</b>
17	SpecialRateFactor	2.20		Rate factor for water crossings or high-speed links. Global constant.
18	SpecialBaseRate	16.82	Shilling/km	Base rate for high-speed travel or water crossings: <b>BaseRate * SpecialRateFactor</b>
19	DistanceDiscount	40%		Distance discount at max distance. Global constant.
20	MaxDistanceDiscount	500	km	Max distance discount. Global constant.
21	DistanceDiscountPerKm	0.006118	Shilling/km	Discount amount per km: <b>BaseRate x DistanceDiscount / MaxDistanceDiscount</b>
22	SeniorDiscount	20%		Senior discount set according to local regulations
23	StudentDiscount	20%		Student discount set according to local regulations
	DisabilityDiscount	20%		Disability discount set according to local regulations
24	DiscountBaseRate	<b>6.12</b>	Shilling/km	<b>Discounted base rate: BaseRate x (1 - SeniorDiscount)</b>
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	<b>6.12</b>	Shilling/km	<b>Rate for a shared pod: BaseRate x (1 - SharedPodDiscount)</b>
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	<b>4.59</b>	Shilling/km	<b>Rate for shared compartment</b> <b>BaseRate x (1 - SharedCompartmentDiscount)</b>
29		5.20	Shilling/km	Rate for 500 km in single-passenger pod.
30	Senior + SharedCompartmentRate	<b>2.20</b>	Shilling/km	<b>Rate for a Senior taking a 500 km trip in a shared compartment.</b> <b>BaseRate x (1 - SeniorDiscountAmount) x (1 - SharedCompartmentDiscount) x (1 - MaxDistanceDiscount)</b>
31	DistanceBase	14,925,994,065	km	Passenger distance under base fare. Audited value from operational data.
32	PercentBase	74%		Percent of passenger distance under base fare: <b>DistanceBase / PassengerTravel</b>
33	BaseRevenue	83,049,801,012	Shilling	Annual revenue from all travel under base rate. Audited value from operational data.
34	AverageDiscount	27%		Average fare discount from Base Rate: <b>1 - (BaseRevenue / (DistanceBase x BaseRate))</b>
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: <b>AverageDiscount x MarketFactor</b>
37	MarketTravelCap	4,066,155,055	km	Cap on passenger travel distance at market rate: <b>DistanceBase x MarketRateCap</b>

# Project Summary

<b>Project Description</b>	Solar-powered automated transportation network infrastructure
<b>Project type</b>	Privately-funded Green Infrastructure
<b>Project cost</b>	\$1.20 billion
<b>Cost to Gov't</b>	\$0
<b>Structure</b>	Privately financed equity and debt
<b>Debt term</b>	10 years @ 5%
<b>Equity terms</b>	A waterfall profit distribution with: <ol style="list-style-type: none"> <li>1. 90/10 split until Return of Capital,</li> <li>2. then 50/50 until Target IRR met</li> <li>3. then 10/90 onwards</li> </ol>
<b>Yearly fees &amp; taxes</b>	\$102,217,373
<b>Benefits to society and environment</b>	Extremely high




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

## Mombasa, Kenya

**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](http://transitx.com/transitxhandbook.pdf)



**218 km network with 48,571 pods**

95% of population within a 10 min. walk

Nonstop 72 km/h service to 440 stops

## Financials

(US\$ in millions)

	Year 1	Total Years 1-12
<b>Gross Revenues</b>	<b>686</b>	<b>16,694</b>
<b>Taxes and fees</b>	<b>34</b>	<b>835</b>
<b>Debt service</b>	<b>\$108</b>	<b>\$1085</b>

## 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 governments 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.

## ESG (Environmental, Social, Governance) Benefits

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

## Status

	Now	Prior to close
<b>Project financing</b>	Letter of Interest	Yes
<b>Demonstration system</b>	In development	Yes
<b>Rider-Revenue study</b>	Proposals	Yes
<b>Environmental study</b>	Expedited request	Yes
<b>Air rights</b>	Proposal	Ordinance
<b>Permits</b>	Known process	Yes
<b>Safety certification</b>	Expedited request	Yes
<b>Installation</b>	High interest	Contracted
<b>Operations &amp; Maint</b>	High interest	Contracted
<b>Utility relocation</b>	Identified	Agreements
<b>EPC</b>	Identified	Contracted

General information available at [transitx.com](http://transitx.com). 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](mailto:mike@transitx.com), 508-596-7024



## Model Inputs and Assumptions

<b>Route length (km)</b>	218	<b>Travel per year per pod (km)</b>	168,191
<b>Starting number of pods</b>	16,028	<b>Revenue per vehicle-km (US\$)</b>	0.25
<b>Projected revenue growth</b>	15%	<b>OPEX as % of project cost</b>	5%
<b>Project Cost (Privately funded)</b>	\$1,196,377,597	<b>Debt Interest rate</b>	5%
<b>% Debt financed</b>	70%	<b>Debt term (yrs)</b>	10
<b>Debt</b>	\$837,464,318	<b>Years to return equity capital</b>	5
<b>Equity</b>	\$358,913,279	<b>Profit share when below capital return</b>	90%
<b>Capital return per year</b>	\$71,782,656	<b>Profit share when below Target IRR</b>	50%
<b>Debt payment (per year)</b>	\$108,455,461	<b>Profit share when above Target IRR</b>	10%

## Pro Forma

Years	0	1	2	3	4	5	6	7	8	9	10	11	12
<b>Revenue</b>	0	<b>685,585,935</b>	788,423,826	906,687,399	1,042,690,509	1,199,094,086	1,378,958,198	1,585,801,928	1,823,672,217	2,097,223,050	2,411,806,508	2,773,577,484	3,189,614,106
<b>5% RoW-tax+fee</b>	0%	34,279,297	39,421,191	45,334,370	52,134,525	59,954,704	68,947,910	79,290,096	91,183,611	104,861,153	120,590,325	138,678,874	159,480,705
<b>Debt service</b>	0	\$108,455,461	\$108,455,461	\$108,455,461	\$108,455,461	\$108,455,461	\$108,455,461	\$108,455,461	\$108,455,461	\$108,455,461	\$108,455,461	0	0
<b>Investor balance</b>		-\$228,221,198	-\$88,142,611	\$62,730,457	\$226,017,179	\$403,579,604	\$597,559,086	\$752,992,059	\$930,136,590	\$1,132,249,414	\$1,363,075,773	\$1,637,768,245	\$1,950,434,368

### Important Notices

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