



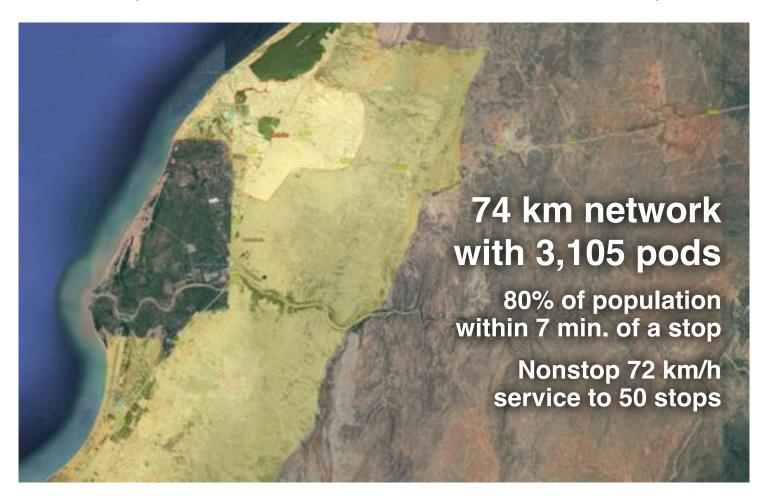
Transit X presents a preliminary proposal for a sustainable micro-rail network — a fleet of automated electric vehicles (pods) for passengers and freight on a local and regional podway providing equitable public transportation for

Lobito, Angola

This proposal is downloadable at transitx.com/proposals/Transitx X for Lobito, Angola.pd

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

A companion Transit X Handbook is available at transitxhandbook.pdf



Proposal Overview



Transit X proposes to finance, build and operate a sustainable microrail podway to carry passengers and freight for Lobito that makes the Transit X service convenient to 80% of the population.

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

Major benefits

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

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



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

Congestion, parking, pollution, and safety

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

High Capacity & High Speed

A single track carries 12,000 pods per hour (20,000 to 50,000 passengers per hour). Two boarding areas fit in a single car space and provide 2,000 boardings per hour. For urban commutes, pods trips are 3 times faster than car trips and the high-speed podway provides faster door-to-door trips than air travel for distances of 1,000 miles or less.

Zero Footprint and Minimal Disruption

Transit X features stops that don't interfere with pedestrians or other forms of transportation. We use easements alongside highway and roads and integrate utility lines and poles Non-stop interchanges fit above existing intersections. Factory-built tracks and posts enable fast installation with minimal disruption. There are options for long crossings using bridges or underground tunnels. Posts are typically spaced at 23 m (25 yds).

Low-cost Infrastructure & equitable fares

Transit X does not require government funding because our revenue from fares, freight, and advertising is greater than our costs. We have reduced or eliminated many costs of transportation including the cost of materials, land, construction, fuel, debt service, and labor. Our projects are typically financed by investment banks, private equity firms, banks, and governments.

Proven technology

Our team and partners have built fully automated systems that are now in operation around the world. Transit X may look unique, but the underlying design is very similar to systems that have been operating for 40 years with an exemplary safety record. The rollout and maiden flight occurred on Oct 29, 2018 in Leominster, Massachusetts. The first Transit X system will be demonstrated by the end of 2019.

Service Quality

Transit X provides on-demand, last-mile service that is superior to cars or buses. An operating agreement will guarantee high levels of availability and reliability. Our use of small vehicles (pods) makes this possible. By reducing car use, Transit X creates walkable and bike-friendly neighborhoods.

Less pollution: Air, Sound, Light, Visual, Water

Transit X offers a much higher quality of life by eliminating many forms of pollution. Pods are quiet, efficient and have zero emissions. Pods offer less visual impact than the existing roads and vehicles, and utility lines can be hidden within the track. At night, there is no light pollution from headlights or taillights. Water pollution from road runoff is significantly reduced. Parking lots and roadways can be converted into green space and community paths as they become unnecessary.

Sustainable and Efficient

Pods weigh only 55 kg (121 lbs) and achieve over 20 times the efficiency of electric cars. Solar, wind, and storage installed on our tracks and posts can provide 100% of the clean energy needed to power the system.

More Transit & Fewer Cars

Transit X provides the convenience and privacy that people value in cars, yet without the negative impacts of personal cars. Transit X combines the best of mass transit and personal transportation modes which will lead to greater use of public transit and fewer cars.

De-risking Projects

Transit X partners with large, established firms to provide fixed-price contracts for the engineering, certification, construction, and operations of a Transit X system. Theses partnerships enable Transit X to de-risk all of the major elements of the project, and provide performance guarantees. We work with local construction firms.

Jobs and Workforce Development

Many regional jobs will be created to build a new transportation infrastructure, as well many new types of jobs will be created from economic growth. The majority of

the construction jobs will be locally sourced and preferential hiring is given to those displaced by the transition.

Revenue Generator for Government

Not only does Transit X not require public financing, but the government and private easement owners receive 4-5% of gross revenue, which would be US\$6 million per year average over the first 10 years.

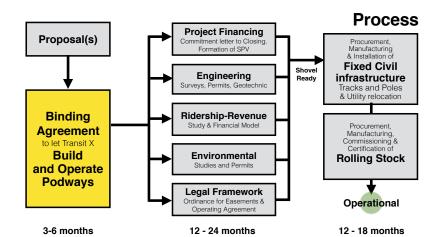
Short and Long Term Solution

A project could be operational within 24 months from the start of a project. Transit X offers a rapidly-deployable solution that provides long term benefits. We would form a local company to build, operate, and maintain the network. At least 75% of the profits would be invested back into the region.

Moving Forward

The diagram shows our process for a project. We submit a project proposal, then ask for a commitment for Transit X to build and operate a podway along rights-of-way easements. Example documents and a sample project schedule can be viewed at:

transitx.com/process



Evaluation

Please review our

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

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

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

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

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

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

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

Other Resources

The links below provide general information about Transit X:

- One minute video overview (transitx.com/video)
- Transit X Handbook (transitx.com/transitxhandbook.pdf)
- · Letters of Project Financing, Due Diligence, Contracts (transitx.com/letters.pdf)
- Memorandum of Understanding template (transitx.com/process/mou.html)
- · Example Right-of-Way agreement (transitx.com/process/resolution.html)
- Operating Agreement (transitx.com/process/operating_agreement.html)
- General Q & A (transitx.com/QandA.html)
- Other proposals (transitx.com/proposals)

Addendum

The remaining pages of this proposal provide project-specific details:

- Project Overview and Impact pages 6 and 7
- Taxes and Fees pages 8 and 9
- Fares page 10 and 11
- Financial Project Summary with Pro Forma pages 12 and 13

We look forward to working with you to improve the quality of life for Lobito through better transportation.

Sincerely,



Email: hello@transitx.com

Telephone: +1 508-596-7024 (WhatsApp connected)

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

Website: transitx.com

Twitter: http://twitter.com/TransitXCorp

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







	I di ISIUA.			
1	Transit X network length	74	km	
2	People (resident-equivalent) in region	324,050	resident-equivalent p	opulation
3	Route density ratio (route length to service area)	0.16		
4	Number of stops	50		
5	Triple-speed route length	0	km	
6	Water crossing route length	0	km	
7	Cost of fixed infrastructure	\$270,026,449		
8	per person	\$833		
9	Mode share of travel on Transit X (14% after first year)		after 10 years	
10	Distance traveled by passengers on Transit X, per year	1,240,832,817	km	
11	per day	3,399,542		
12	Daily potential energy generation with standard panels on tracks	571.8		
13	Sustainable energy use per day		MWh	2.0% of max capacity
14	Energy storage capital cost for 1 day(s) of supply at \$250 per kWh	\$3,311,651		
15	Size (rated power) of solar installation	3,080	KW	
16	Cost to generate sustainable energy (at \$1,000 per kW)	\$3,079,624		F0/ (055)/
17	Cost of buying sustainable energy at \$0.15 per kWh	\$1,987		5% of OPEX
18	Daily passengers riding Transit X		customers	43% of the pop.
19	Distance per passenger per day		km	
20	Average distance per trip (assuming 3 trips per day)		km	
21	Single passenger fare for shared 8 km trip	\$0.39	84.00	AOA
22	Passenger distance traveled during peak hour	679,908		200/ 1
23	Breakeven	79,982	of people convenient	58% of expected and 31% to Transit X)
24	Boarding capacity	18,000	passengers per hour	(13% of customers)
25	Number of pods for peak demand	3,105	pods at 43% mo	ode share
2526	Number of pods for peak demand Number of customers per pod		pods at 43% mo	
			and 104 people pe	
26	Number of customers per pod	44.4	and 104 people pe	
26 27	Number of customers per pod Distance per pod per year	44.4 168,174 3,416	and 104 people pe km m ²	er pod
26 27 28	Number of customers per pod Distance per pod per year Two-layer pod garage area (5% of route with side-parking)	44.4 168,174 3,416 \$20,182,500	and 104 people pe	er pod
26 27 28 29 30	Number of customers per pod Distance per pod per year Two-layer pod garage area (5% of route with side–parking) Cost of pods	44.4 168,174 3,416 \$20,182,500	and 104 people pe km m ² is \$48 per person	er pod
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26 27 28 29 30	Number of customers per pod Distance per pod per year Two-layer pod garage area (5% of route with side–parking) Cost of pods Capital cost of energy generation and storage Project Finances	44.4 168,174 3,416 \$20,182,500 \$8,308,658	and 104 people pe km m ² is \$48 per person is \$26 per person 63,584,250,186	er pod 0.1% of car parking
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26 27 28 29 30 31 P 32 33 34 35 36 37	Number of customers per pod Distance per pod per year Two-layer pod garage area (5% of route with side–parking) Cost of pods Capital cost of energy generation and storage Project Finances Total Project Cost Project cost per km Equity financing	44.4 168,174 3,416 \$20,182,500 \$8,308,658 \$298,517,607 \$4,009,694 \$89,555,282	and 104 people per km m² is \$48 per person is \$26 per person 63,584,250,186 per km 19,075,275,056	or pod 0.1% of car parking AOA
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26 27 28 29 30 31 P 32 33 34 35 36 37 38 39 40 41 42	Number of customers per pod Distance per pod per year Two-layer pod garage area (5% of route with side–parking) Cost of pods Capital cost of energy generation and storage Project Finances Total Project Cost Project cost per km Equity financing Debt financing Debt service (per year) Yearly fees and taxes (US\$21 per capita) OPEX + Debt service + Tex + Fees	44.4 168,174 3,416 \$20,182,500 \$8,308,658 \$298,517,607 \$4,009,694 \$89,555,282 \$208,962,325 \$35,523,595 \$6,934,297	and 104 people per km m ² is \$48 per person is \$26 per person 63,584,250,186 per km 19,075,275,056 44,508,975,130 7,566,525,772 1,477,005,247	AOA AOA AOA AOA AOA
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Impact of proposed network

1	Reduction in GHG emissions (metric tons CO2-eq)	122,532 MTCO2-eq annually
2	Estimated cost to maintain public roadways	\$15,662,204 annually
3	Reduced waste products	19,884 metric tons annually
4	Travel time saved (non-stop travel and congestion)	437 hrs/person annually
5	Cost savings from reduced car ownership	\$4,863 per person annually
6	Increase in household income (from time savings and car costs)	92%
7	Reported injuries avoided	769 annually
8	Lives saved (from safety)	8 annually
9	Land freed from parking (705 acres)	2,853,915 m ²
12	Temperature reduction (from heat island effect & GHG reductions)	0.5 to 2 °C
11	Health care savings (from pollution, injuries)	High

Model Inputs

15	Ratio of road length to track length	4	
16	Walking speed	4.9	km/h
17	Width of convenient swath along track	4.90	km
18	Fixed cost per km (track & posts)	\$2,790,000	594
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 n
25	Percentage of daily demand during peak hour	20%	
26	Maximum capacity per track	41,062	pph

24	widde share % of people convenient to Transit A
25	Percentage of daily demand during peak hour
26	Maximum capacity per track
27	Average dwell time during peak hour
28	% of pods traveling on route with highest demand
29	Average speed of pod
30	Average # of trips for a daily customer
31	Average passengers per pod during peak hours
32	Average passengers per pod
	Average discount per passenger
33	Maximum passengers per pod
34	Empty pods: Percentage non-revenue
35	Ex-Factory cost per pod
36	Worldwide Median Income per Household (US\$)
37	Average number of residents per household
38	Base fare per km
39	(per mile)
40	O&M as % of project cost
41	Percentage debt financed
42	Length of loan/debt

42 43 44

45 47

49 50 51

52

53 54

60

61

62

63

64

65

Lengin or loan/debi	
Interest rate for debt	
kg CO2 emissions per liter of gasoline	
ary value of 1 hour personal time (USD)	Mc
. roadway maintenance per year per km	
Area of one parking lot space	
Commercial income of land (annual)	
istance from roadway that is convenient	
Stops per km	
Boarding capacity per stop	
Solar panel area per meter of track	
Cost of sustainable energy and storage	
Global Horizontal Irradiance (GHI)	
Cost to generate sustainable energy	
Storage per column	
Typical span	
Energy storage cost	
Energy storage capacity	

4		
4.9	km/h	
4.90	km	
\$2,790,000	594,270,000 AOA	
\$8,370,000		
\$5,580,000		
2.2		
10,000	km	
27	km	
QE0/.	at 5 min walk	

10 seconds

18% 72 km/h

\$0.08

\$0.13

5%

3	per day		
3.8	passengers		
2.4	passengers		
26%			
5	passengers		
25%			
\$5,000	1,065,000	AOA	
10,000	2,130,000	AOA	
2.3		AOA	

45 mph

17.0 AOA

27.3 AOA

70%		
10	years	
7%		
2.37		
\$1.50	320	AOA
\$51,000	10,863,000	AOA
23	m ²	
\$0.12	per m ²	AOA
1.48	km	
0.7		

		m²/day		
\$1,000	per k\	N		
40	kWh			
23	m	cols/km:	44	
\$250	per k\	Wh		
1	days			
2.20	m ²			
400/				

500 km 50% 20% 40% 67%

360 pph 2.0

\$0.15 per kWh

Model Inputs (continued)

68	Name of region or project	Lobito, Angola
69	Currency name	AOA
70	Equal to US\$1	213
71	Sustainable energy/electricity generation & storage as	CAPEX
72	Land area of region (sq. km)	608
73	Number of residents in region	324,050
74	% travel within region	90%
75	% of land area served by roads	75%
76	Coverage: % of pop. convenient (30 min walk) to Transit X	80%
77	Annual median household income (US\$)	\$6,000
78	Convenient walk time to stop (min)	30
79	Triple-speed route length (km)	0
30	Water crossing route length (km)	0.0
81	Visitors per year	0
82	Average length of visit (days)	2
83	Solar production ratio	1.57
84	Regional Fare Factor	1.0
85	EPC costs & contingency	30%
86	Triple-speed (km/h)	242
87	Daily Passengers Adjustment	100%
88	Number of Stops Adjustment	100%
89	Mode Share Adjustment	100%

Pod & Car

		Pod	Car
87	Service life (years)	20	12
88	Full cost of vehicle per year	\$200	\$9,000
89	Public cost to maintain infrastructure (per km)	\$0	\$100,000
90	Energy consumption (MPGe)	3564	24
91	Energy consumption (liters/100km)	0.07	9.8
92	Energy consumption (Watt-hours/km)	9	1375
93	mass of CO2 per vehicle per km (kg)	0	0.09875
94	Vehicle mass (kg)	45	1950
95	Average speed of urban travel (km/h)	72	16
96	Typical travel time (in minutes) for 8 km trip	7	31
97	Fare/cost per km	\$0.08	\$0.62
98	Number of deaths per 100M passenger-km	0.00001	1
99	Number of injuries per 100M passenger-km	0.0006	62
100	Volume to park (cubic meters)	5.7	70.9

Mode share starting discount

Distance discount at max distance

Shared Pod Compartment Discount

Max usage discount at 10,000 km per capita

Area of parked pod

Max distance discount

Shared Pod Discount



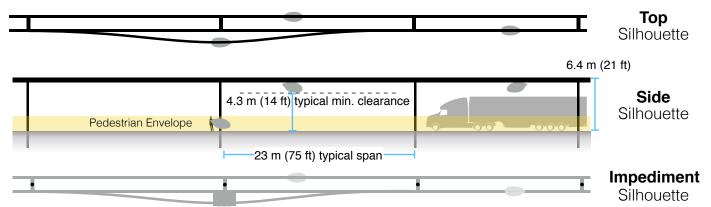
5% of gross revenue is paid for air rights and local taxes.

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

1	Air-rights and Local Taxes		(for calculating m	inimums)	
2	Total commercial land (estimated)	45,600,000	m ²		acres
3	Total commercial gov't revenue (US\$)	\$5,472,000		1,165,536,000	AOA
4	TXCR (Transit X Commercial Rate)	\$0.12	per m ² (estimated)	25.6	AOA
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.				
7	Private Easement Fees	For exam	ple		
8	4% of gross revenue	\$18.63	per route-meter		
9	Minimum per year	\$0.18	per route-meter		
10	Transit X payment to Gover	nment			
10	Transit X payment to Gover % of route on government easements		estimated		
	• •			1,453,373,163	AOA
11	% of route on government easements	98%		1,453,373,163 4,485	
11	% of route on government easements Total air-rights and local taxes	98% \$6,823,348	per year		AOA
11 12 13	% of route on government easements Total air-rights and local taxes per resident	98% \$6,823,348 \$21	per year	4,485 2,828,129	AOA
11 12 13 14	% of route on government easements Total air-rights and local taxes per resident	\$6,823,348 \$21 \$13,278	per year	4,485 2,828,129 0	AOA AOA
11 12 13 14 15	% of route on government easements Total air-rights and local taxes per resident with a minimum of	\$6,823,348 \$21 \$13,278	per year	4,485 2,828,129 0	AOA AOA
11 12 13 14 15	% of route on government easements Total air-rights and local taxes per resident with a minimum of Other financial benefits to C	98% \$6,823,348 \$13,278 Government	per year	4,485 2,828,129 0	AOA AOA AOA
11 12 13 14 15 16	% of route on government easements Total air-rights and local taxes per resident with a minimum of Other financial benefits to C Less road maintenance from lower VMT	98% \$6,823,348 \$21 \$13,278 Government g and lanes	per year	4,485 2,828,129 0	AOA AOA AOA AOA
11 12 13 14 15 16 17	% of route on government easements Total air-rights and local taxes per resident with a minimum of Other financial benefits to C Less road maintenance from lower VMT Public land made available from less parking	\$6,823,348 \$21 \$13,278 Government g and lanes road-related incide	per year per year ents	4,485 2,828,129 0	AOA AOA AOA AOA AOA

Footprint calculations for minimum fee

Yearly fees and taxes



Pod landing area: 1.5m x 2.5m with 3m minimum spacing

1	Footprint Calculations	Metric		Imperial
2	Track width	0.30	m	
3	Track height	0.60	m	
4	Post diameter	0.3	m	
5	Post cross section	0.07	m ²	
6	Stop landing area	<u>3.75</u>	m ²	
7	width	<u>1.5</u>	m	
8	length	<u>2.5</u>		
9	Ramp length	<u>21</u>		
10	Typical Span	<u>23</u>		
11	Number of posts per unit length	<u>43.5</u>	poles per km	
12	Post height	<u>6</u>	m	
13				
14	Single track	1022.1	m ²	
15	Area of Side Silhouette	678.3	m ²	
16	Area of Top Silhouette	313.1	m ²	
17	Impediment Area (adjusted)	30.7	m ²	
18				
19	Dual track	1322.1	m ²	
20	Area of Side Silhouette	678.3		
21	Area of Top Silhouette	613.1		
22	Impediment Area (adjusted)	30.7	m ²	
23	, ,			
24	Stop	82.1	m ²	
25	Area of Side Silhouette	25.2	m ²	
26	Area of Top Silhouette	19.4	m ²	
27	Impediment Area (adjusted)	37.5	m^2	
28				
29	Stops with dedicated landing areas	2	stops per km	
30	% of dual track	100%		
31				
32	Average area per unit length	1,486	m² per route-km	
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		



Fair Fare Formula

Summary

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

At 10.19 AOA per km, a typical commute on Transit X is 17% less than public transit and 74% less than a Taxi.*

			Trip Length				
Al	l prices in AOA	2 km	10 km	40 km			
	Transit X	20.32 to 33.91 2 min., 3.6x faster	100.52 to 168.44 8 min., 3.6x faster	385.78 to 657.46 33 min., 3.4x faster			
Р	ublic transit average	113.90	181.18	265.60			
sepou	Taxi	157.91 2 to 6 minutes	687.69 8 to 30 minutes	2674.34 30 to 120 minutes			
ublic n	Uber/Lyft	120.22 2 to 6 minutes	495.14 8 to 30 minutes	1901.08 30 to 120 minutes			
Common public modes	Public Bus	91.69 3 to 12 minutes	91.69 15 to 60 minutes	140.59 60 to 240 minutes			
Comr	Train	137.54 2 to 12 minutes	161.99 8 to 60 minutes	253.68 30 to 240 minutes			
P	Personal car	122.28 2 to 6 minutes	366.89 8 to 30 minutes	1284.18 30 to 120 minutes			
Avg. Low High Min Max Time Mode share * All numbers on mod Speed Speed speed Dist Dist. cost 6% 70% 24% shares, speeds, and compared to the speed share shares.							

	Avg. Speed	Low Speed	High speed				Min Dist	Max Dist.	Time cost	Mode 6%	shar 70%	
Travel mode	km/h	km/h	km/h	Base	Includ es km	Over per-km	km	km	per min	2	10	40
Taxi	30	20	80	91.69	1	45.85	0.5	100	40.75	5%	4%	1%
Uber/Lyft	30	20	80	73.35	1	36.68	0.5	100	20.38	10%	10%	2%
Public Bus	15	10	40	91.69	20	2.45	0.5	50	0	50%	50%	40%
Train	30	10	80	37.54	2	3.06	2	100	0	35%	36%	57%
Transit X	72	72	72	0	0	10.19	0.1	50	0	-	-	-
Personal car	30	20	80	61.13	0	30.56	0.1	400	0.03	-	-	-

sts are rough estimates..

Base fares are set for first 5 years, then adjusted by formula. A 20% discount on a shared pod and a 40% discount on a shared compartment. Trips are discounted proportional to their length reaching a maximum of a 40% discount on a 500 km trip. No congestion-based pricing. Fares are proportional to the median income of the area and inversely proportional to per capita use, so the more use of Transit X, the lower the base fare up a to 50% discount. The amount of market-rate fares must be less than the amount of discounted fares. Transit X Fair Fare Formula and Fair Freight Formula is universal and applies to all regions and all times.



Fair Fare Formula

Fare rates are updated annually using this formula

	Name	Value	Units	Description of the value or model input	In USD
1	GlobalIncome	2,130,000	AOA	Global median household income. Updated annually based on most recent standard published data.	10,000
2	AllTravel	23,000	km	Travel distance per household per year on any mode for trips under 1600 km. A global constant	
3	PercentIncomeForTr ansport	20%		% of median household income for all transportation under 1600 km trips. A global constant.	
4	GlobalRate	18.52	AOA/km	Global rate: GlobalIncome * PercentIncomeForTransport / AllTravel	0.09
5	IncomeFirst	\$1,278,000	AOA	Median household income at first stop (per person per day). External input. Based on reliable public data source updated annually.	\$6,000
6	IncomeDest	\$1,917,000	AOA	Median household income at destination per trip. External input. Based on reliable public data updated annually.	\$9,000
7	RegionalRate	11.11	AOA/km	Regional rate based on median income: MedianIncomeFirst * PercentIncomeForTransport / AllTravel	0.05
8	UnderIncomeRate	7.41	AOA/km	Under global income adjustment: if (RegionalRate < GlobalRate, GlobalRate - RegionalRate, 0)	0.03
9	NominalRate	18.52	AOA/km	Nominal rate: RegionalRate + UnderIncomeRate	0.09
0	RegionalFactor	1.00		Regional Fare Factor. Negotiated upfront to make network financially viable.	
11	AdjustedRate	18.52	AOA/km	Regional adjusted rate: NominalRate * RegionalFactor	0.09
13	Population UsageMaxDiscount	324,050		Population in region. Updated annually based on trusted public data source.	
2	UsageMaxDiscount	50%		Fare Discount when Transit X travel per household equals AllTravel. Global constant.	
14	PassengerTravel	1,240,832,817	7 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	17%		Percent of Total Travel Per Capita on Transit X: PassengerTravel / (Population x AllTravel)	
16	BaseRate	16.98	AOA/km	Base rate for single-passenger pod (without discounts) (1 - UsageMaxDiscount x min(1,ModeShare)) x AdjustedRate	0.08
17	SpecialRateFactor	2.20		Rate factor for water crossings or high-speed links. Global constant.	
18	SpecialBaseRate	37.36	AOA/km	Base rate for high-speed travel or water crossings: BaseRate * SpecialRateFactor	0.18
19	DistanceDiscount	40%		Distance discount at max distance. Global constant.	
20	MaxDistanceDiscou nt	500	km	Max distance discount. Global constant.	
21	DistanceDiscountPe rKm	0.013584	AOA/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	
	DisabilityDiscount	20%		Disability discount set according to local regulations	
24	DiscountBaseRate	13.58	AOA/km		0.06
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	13.58	AOA/km	Rate for a shared pod: BaseRate x (1 - SharedPodDiscount)	0.06
27	SharedCompartment Discount	40%		Discount for shared compartment. Set by Transit X per year. 25% minimum and 40% maximum. Maximum yearly change is one percentage point.	
28	SharedCompartment Rate	10.19	AOA/km	Pata for chared compartment	0.05
29	SingleOccupancyMa xDistance	11.55	AOA/km	Rate for 500 km in single–passenger pod.	
30	Senior + SharedCompartment Rate	4.89	AOA/km	Rate for a Senior taking a 500 km trip in a shared compartment. BaseRate x (1 - SeniorDiscountAmount) x (1 - SharedCompartmentDiscount) x (1 - MaxDistanceDiscount)	0.02
31	50PctIncomeAtDest	25%		% Higher fare rate if Destination has 50% higher median income than First (IncomeDest / IncomeFirst - 1) / 2	
32	DistanceBase	918,216,285	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	11,464,465,04	AOA 8	Annual revenue from all travel under base rate. Audited value from operational data.	
35	AverageDiscount	26%		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	26%		Cap on passenger travel distance at market rate: AverageDiscount x MarketFactor	
38	MarketTravelCap	243,039,649	km	Cap on passenger travel distance at market rate: DistanceBase x MarketRateCap	
				•	

Project Summary

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

Project type Sustainable Transportation Infrastructure

Design, Build, Finance, Own, Operate, Maintain

(DBFOOM)

Project equity US\$90 million (30% of total)

Cost to Gov't \$0

Structure Privately financed equity and debt

Debt term 10 years @ 7%

Equity terms A waterfall profit distribution per year with:

1. 90% until capital payback,

2. then 50% until Target% is reached

3. then 10%

Taxes & Fees \$6,823,348 per year

Benefits to

society and Extremely high environment

environment

Estimated return 2% average IRR at 5 yrs 15% average IRR at 10 yrs

Financials (US\$ in millions)	Year 1	Total Years 1-12
Gross Revenues	46	1,328
Taxes and fees	2	66
Debt service	\$15	\$161

ESG (Environmental, Social, Governance) Benefits

Clean Energy	yes	Improve Resiliency	yes
Energy security	yes	Sustainable	yes
Zero Emissions	yes	Equitable	yes
Zero GHG	yes	Recyclable Materials	yes
Lowers Pollution	yes	Affordable Housing	yes
Clean Water	yes	Improved Health	yes
Improved Safety	yes	Economic Development	yes
Add Green Space	yes	Access to Food	yes
Accessible	yes	Add Quality Jobs	yes

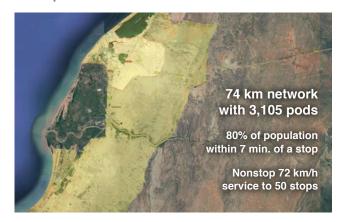




Transit X presents a preliminary proposal for a sustainable micro-rail network — a fleet of automated electric vehicles (pods) for passengers and freight on a local and regional podway providing equitable public transportation for

Lobito, Angola

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



About Transit X

Transit X finances, designs, builds, and operates solar-electric micro-rail public transit podways to supplant buses, trains, cars, and trucks. Transit X offers its service to governments and commercial developers. Maiden Flight was on Oct 29, 2018 and pilot projects started in 2018. First pilots will break ground in 2019 and begin operations in 2020. Transit X is a privately held company founded in 2015, based in Boston, Massachusetts.

Status

	Now	Prior to close
Project financing	Available	Yes
Outdoor Test Track	Nov 2019	Yes
Rider-Revenue study	Preliminary	Yes
Environmental study	Per region	Yes
Air rights	Per project	Yes
Permitting	Per project	Yes
Safety certification	Per country	Yes
Construction firm	Per project	Yes
Design and major subs	Per project	Yes
Operations & Maint	Partners	Yes
Utility relocation	Per project	Agreements

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



Model Inputs and Assumptions

Route length (km) 74

Starting number of pods 1,025

Projected revenue growth 15%

Project Cost (Privately funded) \$298,517,607

% Debt financed 70%

Debt \$208,962,325

Equity \$89,555,282

Debt payment (per year) \$14,627,363

Travel per year per pod (km) 168,174

Revenue per vehicle-km (US\$) 0.27

OPEX as % of project cost 5%

Debt Interest rate 7%

Debt term (yrs) 10

Profit share when below capital return 90%

Profit share when below Target IRR 50%

Profit share when above Target IRR 10%

Pro Forma

	Years	0	1	2	3	4	5	6	7	8	9	10	11	12
Revenue		0	45,781,993	52,649,292	60,546,685	69,628,688	80,072,991	92,083,940	105,896,531	121,781,011	140,048,162	161,055,387	185,213,694	212,995,749
5% RoW÷tax÷fee	e	0%	2,289,100	2,632,465	3,027,334	3,481,434	4,003,650	4,604,197	5,294,827	6,089,051	7,002,408	8,052,769	9,260,685	10,649,787
Debt service		0	\$14,627,363	\$14,627,363	\$14,627,363	\$14,627,363	\$14,627,363	\$14,627,363	\$14,627,363	\$14,627,363	\$14,627,363	\$14,627,363	\$14,627,363	\$14,627,363
Investor share		0	11,291,116	14,762,009	18,753,534	23,343,789	28,622,582	14,601,433	15,377,122	16,269,165	17,295,014	18,474,741	19,831,426	21,391,614
Investor share (%))		90%	90%	90%	90%	90%	38%	33%	29%	26%	24%	22%	20%
Share / Orig Capita	tal	0%	13%	16%	21%	26%	32%	16%	17%	18%	19%	21%	22%	24%
IRR to date		loss	loss	(53%)	(26%)	(9%)	2%	6%	9%	11%	13%	15%	16%	17%

Important Notices

The information contained in this document is not an offer to sell or a solicitation to buy any security. These materials and documents and information from which they are derived or which are referred to by or accessible from them may contain forward looking statements within the meaning of Section 27A of the Securities Act of 1933, Section 2E of the Securities Exchange Act of 1934 and the Private Securities Litigation Reform Act of 1995. All statements other than statements of historical fact are forward looking statements and are subject to risks and uncertainties. Forward looking statements generally can be identified by the use of forward looking terminology such as "may," "will," "expect," "intend," "estimate," "project," "anticipate," "believe" or "plan" or the negative thereof or variations thereon or similar terminology. Although Transit X believes that the expectations reflected in such forward looking statements are reasonable, it can give no assurance that such expectations will prove to be correct. All forward looking statements speak only as of the date made. Except as required by law, Transit X undertakes no obligation to update any forward looking statement to reflect events or circumstances after the date on which it is made or to reflect the occurrence of anticipated or unanticipated events or circumstances. These materials and documents and information from which they are derived or which are referred to by or accessible from them represent Transit X's best estimate as to the allocation of the funding proceeds based upon its present business plan and financial condition. The costs and expenses to be incurred in pursuing the Company's business plan cannot be predicted with certainty. There can be no assurance that unforeseen events will not occur or that the Company's business plan will be achieved or that it will not be changed, and it is possible that the funding proceeds may be applied in a manner other than that described herein.

Jobs Report

1	Annual median household income (US\$)	\$6,000
2	CAPEX	
3	Average gross CAPEX salary (% of median HH)	125%
4	Average gross CAPEX salary	\$7,500
5	% of CAPEX as salary	15%
6	Years of CAPEX	2
7	# of CAPEX jobs	2,985
8	% of jobs that are manufacturing vs. construction	75%
9	Manufacturing jobs	2,239
10	Construction jobs	746
11	OPEX	
12	Average gross OPEX salary (% of median HH)	115%
13	Average gross OPEX salary	\$6,900
14	% of OPEX as salary	30%
15	Operations and Maintenance jobs	649