



Transit X, LLC presents a preliminary proposal for

# Allentown, PA

For a privately-funded shared mobility service that is

# High capacity • High speed • 24/7 • Nonstop Solar powered • Last mile • Wait-free • Resilient

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







Transit X proposes to build and operate a privately-financed automated pod network in Allentown, PA 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. Our approach to significantly reducing costs makes private financing possible.

#### Proven technology

Our team and partners have built fully automated transit systems that are now in operation — Morgantown, WV, BART, and several others in Europe. 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. Altran is 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.

#### **Quality Service**

Transit X provides on-demand, last-mile service that is superior to cars or buses. A service level 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 and has a zero carbon footprint. The energy generated from solar panels on the track and stored within the poles is sufficient in most cases, but sustainable power contracts would provide backup power. Transit X makes it possible to reduce the amount of impervious surfaces and increase green space by reducing the need for parking and roads.

#### More transit & less cars

Transit X provides the convenience and privacy that people value in cars, yet without the negative impacts from personal car use. 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 will work with regional urban planning and construction firms who are familiar with local codes and requirements.

#### Jobs and workforce development

Many jobs are created to build a new transportation infrastructure and transition away from roads. 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 potentially displaced by the transition to automated vehicles.

#### Revenue generator

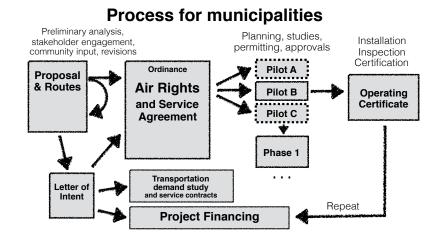
Not only does Transit X not require public financing, but the local municipality receives 5% of gross revenue. For specifics, please see the "Taxes and Fees" section of this proposal.

#### Short and long term

A project could be operational within 24 months from the start of a project. Transit X offers a short term 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. 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 a service 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.

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 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 on how to move forward, we would ask for a letter (example at <u>transitx.com/process/loi.html</u>) stating that you intend to pass an ordinance for use of air rights along with a service 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 resources below provide more general information:

- Transit X Handbook (transitx.com/transitxhandbook.pdf)
- Video overview (transitx.com/video)
- Letters of Project Financing, Due Diligence, Contracts (transitx.com/letters.pdf)
- Sample Ordinance (transitx.com/process/ordinance.html)
- · Service Agreement (transitx.com/process/service\_agreement.html)

#### **Addendum**

The remaining pages of this proposal provide more details specific to this project:

- Financial Project Summary with Pro Forma, pages 6-7
- Project Overview, Impact, and Assumptions, pages 8-9
- Taxes and Fees with Footprint, pages 10-11
- Fair Fare Policy, page 12

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

Sincerely,

Mike Stanley CEO, Transit X

Direct: +1 508-596-7024 Email: mike@transitx.com Website: transitx.com

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

Skype: mikestanley49 WeChat: MikeTransitX WhatsApp: +1 508-596-7024

Twitter: https://twitter.com/MikeTransitX

Facebook: https://www.facebook.com/mike.stanley.526875

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

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

Happy Mass Transit!





Project Description	Solar-powered automated transportation network infrastructure
Project type	Project financing of Green Infrastructure
Project cost	\$646 million
Projected IRR	85%
Cap rate	165%
Structure	Equity and Debt
Debt term	10 years @ 5%
Equity terms	15 years with 15% Target IRR With a waterfall profit distribution of: 1. 90/10 split until Return of Capital, 2. then 50/50 until Target IRR met 3. then 10/90
Benefits to society and environment	Extremely high

#### **Financials**

(US Dollars in millions)	Year 1	Total Years 1-10
Gross Revenues*	1,159	19,452
Operating Expenses	90	1,263
Debt service	\$59	\$586
Net Operating Income	\$1,010	\$17,603

#### ESG (Environmental, Social, Governance) Benefits

Clean energy	yes	Resiliency	yes
Energy security	yes	Sustainable	yes
Emissions-free	yes	Equitable	yes
GHG-free	yes	Recyclable mat.	yes
Lowers pollution	yes	Affordable housing	yes
Clean water	yes	Improved Health	yes
Improved Safety	yes	Economic Devel.	yes
Fix Infrastructure	yes	Food security	yes



#### **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. A demonstration system will be ready in early 2018, and pilots will begin 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.

#### Status

	Now	Prior to close
Project financing	Letter of Interest	Yes
Proven concept	Yes	Yes
Demonstration system	In development	Yes
Ridership study		Yes
Environmental study		Yes
Air rights	Letter of Intent	Ordinance
Permits	Known process	Yes
Safety certification	Guar. fixed price	Yes
Construction (BOP):	Letter of intent	Guar. fixed price
Operations & Maint:	Letter of intent	Guar. fixed price
Project Engineering	TBD	25% design

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



### **Model Inputs and Assumptions**

218	Route length (km)
9,233	Starting Pods
<u>15%</u>	Projected revenue growth
stops, subsidies, and party services,	Revenues to include passenger fare developer fees, private leasing, private branmuni contracts, carbon credits, conduit leasing para-transit, private shuttle
\$645,892,133	Project Cost
<u>70%</u>	% Debt financed
\$452,124,493	Debt
\$193,767,640	Equity
\$38,753,528	Capital return per year
15%	Target IRR
\$29,065,146	Target return per year
\$58,552,190	Debt payment (per year)

Travel per year per pod (km)	210,237
Revenue per vehicle-km (US\$)	0.60
Cost per pod	\$5,000
OPEX as % of project cost	5%
OPEX as % of revenue	5%
Debt Interest rate	5%
Debt term (yrs)	10
Equity term (yrs)	15
Years to return equity capital	<u>5</u>
Profit share when below capital return	90%
Profit share when below Target IRR	50%
Profit share when above Target IRR	10%

#### **Pro Forma**

Yea	rs 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Revenue	0	1,158,847,100	1,332,674,165	1,532,575,290	1,762,461,584	2,026,830,821	2,330,855,445	2,680,483,761	3,082,556,325	3,544,939,774	4,076,680,740	4,688,182,851	5,391,410,279	6,200,121,821	7,130,140,094
OPEX	0	90,236,962	98,928,315	108,923,371	120,417,686	133,636,148	148,837,379	166,318,795	186,422,423	209,541,595	236,128,644	266,703,749	301,865,121	342,300,698	388,801,611
Debt service	0	\$58,552,190	\$58,552,190	\$58,552,190	\$58,552,190	\$58,552,190	\$58,552,190	\$58,552,190	\$58,552,190	\$58,552,190	\$58,552,190	0	0	0	0
Free cash flow	0	1,010,057,948	1,175,193,660	1,365,099,729	1,583,491,708	1,834,642,483	2,123,465,875	2,455,612,776	2,837,581,712	3,276,845,988	3,781,999,906	4,421,479,102	5,089,545,158	5,857,821,123	6,741,338,483
Waterfall distribution	n														
1. Capital return	0	\$38,753,528	\$38,753,528	\$38,753,528	\$38,753,528	\$38,753,528	0	0	0	0	0	0	0	0	0
2. Expected return	0	\$29,065,146	\$29,065,146	\$29,065,146	\$29,065,146	\$29,065,146	\$29,065,146	\$29,065,146	\$29,065,146	\$29,065,146	\$29,065,146	\$29,065,146	\$29,065,146	\$29,065,146	\$29,065,146
3. Over Exp return	0	942,239,274	1,107,374,986	1,297,281,055	1,515,673,034	1,766,823,809	2,094,400,729	2,426,547,630	2,808,516,566	3,247,780,843	3,752,934,760	4,392,413,956	5,060,480,012	5,828,755,977	6,712,273,337
Investor share	0	143,634,676	160,148,247	179,138,854	200,978,052	226,093,129	223,972,646	257,187,336	295,384,230	339,310,657	389,826,049	453,773,969	520,580,574	597,408,171	685,759,907
Investor share %		14%	14%	13%	13%	12%	11%	10%	10%	10%	10%	10%	10%	10%	10%
Investor IRR	0%	54%	63%	72%	84%	97%	116%	133%	152%	175%	201%	234%	269%	308%	354%
Investor balance	\$(193,76	5.\$ (50,132,964)	\$ 110,015,282	\$289,154,136	\$490,132,188	\$716,225,317	\$ 940,197,963	\$1,197,385,299	\$1,492,769,528	\$1,832,080,186	\$2,221,906,235	\$2,675,680,203	\$3,196,260,777	\$3,793,668,948	\$4,479,428,855
Investor IRR to date	loss	-26%	35%	61%	73%	79%	82%	83%	84%	85%	85%	85%	85%	85%	85%

#### **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.



## **Project Overview**

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Size of region  Number of people in region (residents + visitors)	300 750,000	km <sup>2</sup>	115.7 sq miles
Travel distance per year by all people (residents and visitors)	10,875,000,000	lem	6,754,658,385 miles
Percentage of all travel that occurs within the region	70%	KIII 	, , ,
Road coverage (percent of area conveniently served by paved roads)	66%		
Service area size	198.0	km²	76.4 sq miles
Coverage: percent of people convenient (5 min walk) to Transit X	90%		
Estimate #1 for network length based on desired coverage	218		135.5 miles
Length of paved roads (non-highway) in region	<u>792</u>		491.9 miles
Estimate #2 for network length based on length of public roadways	178	km	110.7 miles
Transit X network length	218	km	135.5 miles
Route density ratio (route length to service area)	1.10		
Tunnel length	0.0	km	
High-speed X Way length	0.0	km	
Total costs for project not including pods	\$507,392,133		
per person	\$677		
Mode share of travel on Transit X	77%		
Distance traveled on Transit X, per year	5,823,562,500	km	3,617,119,565 miles
per day	15,954,966	km	9,909,917 miles
Daily number of people riding Transit X		customers	
Distance per Transit X customer per day		km	17.3 miles
Average trip distance	9	km	5.8 miles
Passenger fare for 9 km trip (at \$0.30 per km)	\$2.77		
Distance traveled during peak hour	3,190,993	km	1,981,983 miles
Breakeven	90,418	customers per day	
	•	(13% of people conven	ient to Transit X)
Number of pods needed to meet peak demand	27,700	node	
Distance per pod per year	210,237	•	
Pod shed parking volume [in cubic 40' shipping containers (sc)]  Cost of pods	\$138,500,000	SC <sup>3</sup>	
Cost of pod per person	\$185		
	Ψ100		
Project finances			
Total project cost (privately financed)	\$645,892,133		
OPEX (O&M) per year	\$119,211,277		
Private equity	\$193,767,640		
Financed Gross Revenue from fares	\$452,124,493 \$1,738,333,406		
EBITA (Profit)	\$1,619,122,129		
Debt service	\$67,818,674		
Fees and taxes	\$86,916,670		
OPEX + Debt service + Tax + Fees	\$273,946,621		
Net income	\$1,464,386,785		
Operating Margin	93%		
Project costs — per person	\$861		
Number of cars displaced	401,625	motor vehicles	
Yearly cost of cars displaced — per person	\$4,820		
Operating costs per passenger-mile	\$0.08		
Breakeven revenue distance per day	2,514,367	km	1,561,719 miles
Network capacity (number of pods)	6,546		
% of max network capacity at peak	212%		



#### Impact of proposed network

575,077 metric tons CO <sub>2</sub>	Reduction in CO2 emissions
\$40,392,000	Est. cost to maintain 792 km roadway
64,360 metric tons	Reduced waste products per year
493 hrs/person	Travel time saved per year
\$3,263	Cost savings per capita per year from reduced car ownership
23%	Increase in household income from time saving and car costs
3,611	Reported injuries avoided per year
36	Lives saved per year
9,237,375 m <sup>2</sup>	Land freed from parking (2,283 acres)
\$9,237,375 per year	and its commercial value
High	Health care savings
1 to 3 °C	Heat island mitigation from replacing asphalt with green space
TBD °C	Change in global temperature
TBD mm	Decrease in sea level

## **Model Inputs**

•			
Ratio of road length to track length	4	_	
Convenient walk time to Transit X route	5	min.	
Walking speed	4.9	km/h	3 mph
Width of convenient swath along track	0.82	km	1 miles
Fixed cost for main route per km	<u>\$3,100,000</u>		
Fixed cost per km for branch	\$1,550,000		
Percentage of Dual Track	50%		
Project cost per km for track	\$2,325,310		
Water tunnel: additional cost per km	\$13,000,000		
High-speed X Way: additional project cost per km	\$10,000,000		
Median distance traveled per person per year (for trips under 1600 km)	14,500	km	9,006 miles
Mode share % of people convenient to Transit X	<u>85%</u>		
Percentage of daily travel during peak hour	20%		
Max capacity: number of pods per km of track	150	pods	
Max track capacity during peak hour as % of capacity	<u>20%</u>		
Average speed of pod	72	km/h	45 mph
Average # of trips for people riding Transit X	3	per day	
Average occupancy per pod during peak hours		people	
Average occupancy per pod	1.25	people	
Maximum occupancy per pod	5	people	
Empty pods: Percentage non-revenue vehicle travel	25%		
Cost per pod	\$5,000		
Median income per capita (US\$)	30,000		
Base fare per km	\$0.30		
(per mile)	\$0.48		
O&M as % of project cost	<u>5%</u>		
O&M as % of gross revenue	<u>5%</u>		
Percentage debt financed	<u>70%</u>		
Length of loan/debt	<u>10</u>	years	
Interest rate for debt	<u>5%</u>		
kg CO2 emissions per liter of gasoline	<u>2.37</u>		
Monetary value of 1 hour personal time	7.5		
Eat. roadway maintenance per year per km	\$51,000	•	0
Area of one parking lot space		m <sup>2</sup>	247 sf
Commercial income of land	\$1	per m <sup>2</sup>	
Distance from roadway that is convenient	0.25	km I	
Stops per km	2.0		

#### Pod & Car

Car	Pod	
12	20	Service life (years)
\$9,000	\$200	Full cost of vehicle per year
\$100,000	\$0	Public cost to maintain infrastructure (per km)
24	1000	Energy Efficiency in MPGe
9.8	0.24	Energy Efficiency in liters/100km
0.09875	0	mass of CO2 per vehicle per km (kg)
1950	45	Vehicle mass (kg)
16	72	Average speed of travel (km/h)
35	8	Typical travel time (in minutes) for 9 km trip
\$0.62	\$0.30	Fare/cost per km
1	0.00001	Number of deaths per 100M passenger-km
62	0.0006	Number of injuries per 100M passenger-km
70.9	5.7	Volume to park (cubic meters)

#### **Currency conversion**

Currency name
Equal to US\$1 1



## **Taxes and Fees**



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).

	Note: Inputs have box outline		
Municipal rates			
Total commercial land area	3,000,000 m <sup>2</sup>	32,289,000	sq ft. (741.3 acres)
Total commercial income to muni	\$3,000,000		
TXCR (Transit X Commercial Rate)	\$1.00 per	$m^2$	
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.			
Project Revenue			
Length of Transit X route	218 km	135	miles
Estimated gross revenue per unit length	\$7,966,549 per	km	
Local Municipal Tax	% of gross revenue with mi	inimum.	
1% gross revenue	\$79,665 per r		
Minimum per year	\$1,309 per r	route-km <b>\$2,111</b>	per route-mile
Air Rights Leasing Fee	% of gross revenue with mi	inimum. Proportioned based of	on length.
% of route on municipal land	90%		
4% gross revenue	\$318,662 per r	route-km	
Minimum per year	\$1,309 per r	route-km <b>\$2,111</b>	per route-mile
Taxes and Fees			
Local municipal income	<b>\$79,963,337</b> per	year	
with minimum	\$542,599		
Non-municipal income	\$6,953,334		
with minimum	\$28,558		

## Footprint calculations for minimum fee

Pod Stop

23 m (75 ft)

## Yearly fees and taxes

Top Silhouette

**Impediment**Silhouette

Note: Diagrams for illustrative purposes.

Pedestrian Envelope

Pole

Footprint Calculations	Metric	Imperial
Track width	<u>0.33</u> m	13.0 inches
Track height	<u>0.61</u> m	24.0 inches
Pole diameter	<u>0.3</u> m	11.8 inches
Pole cross section	<u>0.07</u> m <sup>2</sup>	0.8 sf
Stop landing area	<u>1</u> m²	10.8 sf
width	<u>1</u> m	39.4 inches
length	<u>1</u> m	39.4 inches
Ramp length	<u>21</u> m	68.9 feet
Pole span	<u>23</u> m	75.5 feet
Number of poles per unit length	43.5 poles per km	70.0 poles per mile
Pole height	<u>6</u> m	19.7 feet
Single track	1046.7 m <sup>2</sup>	11263 sf
Area of Side Silhouette	688.3 m <sup>2</sup>	7406 sf
Area of Top Silhouette	343.1 m <sup>2</sup>	3692 sf
Impediment Area (adjusted)	15.4 m <sup>2</sup>	165 sf
Dual track	1376.7 m <sup>2</sup>	14814 sf
Area of Side Silhouette	688.3 m <sup>2</sup>	7406 sf
Area of Top Silhouette	673.1 m <sup>2</sup>	7243 sf
Impediment Area (adjusted)	15.4 m <sup>2</sup>	165 sf
Stop	48.5 m <sup>2</sup>	522 sf
Area of Side Silhouette	25.6 m <sup>2</sup>	276 sf
Area of Top Silhouette	17.9 m <sup>2</sup>	192 sf
Impediment Area (adjusted)	5.0 m <sup>2</sup>	54 sf
Stops	2 stops per km	3.2 stops per mile
% of dual track	50%	0.2 Stops per fille
70 OI Guai track	3070	
Average area per unit length	1,309 m² per route-k	22,713 sf per route-mile
Contract values		
% gross revenue for muni tax/fee	1%	
% gross revenue for air rights	4%	
Impediment Factor	5	



# **Fair Fare Policy**

Fares will be similar to existing mass transit, and several times less than taxis or ride-sharing services. Transit X Fair Fare is a universal passenger fare model that applies to all regions and all times. Fares are proportional to the median income of the area and inversely proportional to per capita use, so the more people that use Transit X, the lower the base fare. Market-rate fares are offset by Half-price fares. There are no pre-set escalations.

		Initial	50% share	+50% Income	90% Usage
Median income per capita	US\$	30,000	\$30,000	\$45,000	\$30,000
Nominal fare	US\$	0.3	\$0.30	\$0.45	\$0.30
Per Capita Usage %		1%	50%	50%	90%
Discount for usage	US\$	0.0015	\$0.08	\$0.11	\$0.14
Base Fare (US\$)	per km	0.30	\$0.23	\$0.34	\$0.17
per pass	enger-mile	0.48	\$0.36	\$0.54	\$0.27
% Fares at Market rate		<u>20%</u>	<u>30%</u>	<u>40%</u>	<u>50%</u>
% Fares at Base rate		80%	60%	40%	20%
% Fares at Half Base rate		0%	10%	20%	30%
Estimated average fare	per km	0.48	\$0.42	\$0.71	\$0.39

#### Price comparison with common travel modes (in Boston, USA)

	Mode »	Bus	Commuter Rail	Subway	Personal Car	Taxi / TNC's
Average distance (km)		5	18	8	8	5
Price per trip	US\$	\$1.85	\$8.00	\$2.50	\$6.00	\$12.00
Typical price per km	US\$	\$0.37	\$0.44	\$0.31	\$0.75	\$2.40

#### **Base Inputs**

Median travel distance per capita per year (under 1000 mile trips)	20,000	km
% of per capita median income for 20,000 km transportation	<u>20%</u>	
Fare Discount when Transit X travel per capita is 20,000 km per year	50%	