

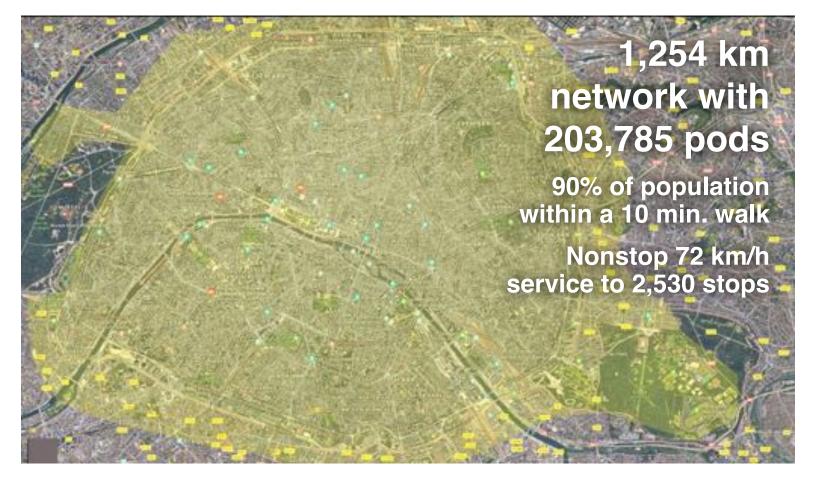


Transit X, LLC presents a preliminary proposal for a privately-funded fleet of fully-autonomous shared electric vehicles on local and regional podway network for

# agglomération Parisienne, France

## 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





## Transit X proposes to build and operate a privately-financed pod network to carry passengers and freight for agglomération Parisienne, France 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

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

## Proven technology

Our team and partners have built fully automated systems that are now in operation around the world. Transit X may look unique, but the underlying design is very similar to systems that have been operating for 40 years with an exemplary safety record. An in-depth (1000+ hours) technical assessment and feasibility analysis has been completed by Altran, a global engineering firm with

extensive expertise in automated transit systems. The first pilots of Transit X will be deployed by the end of 2018.

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

## Service Quality

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

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

Transit X offers a much higher quality of life by eliminating many forms of pollution. Pods are quiet and have no emissions. Pods offer less visual impact than the existing roads and vehicles, and utility lines can be hidden within the track. At night, there is no light pollution from headlights or taillights. Water pollution from road runoff is significantly reduced.

## Sustainable

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

## More Transit & Fewer Cars

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

## **De-risking Projects**

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

We would work with regional urban planning and construction firms who are familiar with permitting and applicable codes.

## Jobs and Workforce Development

Many jobs will be created to build a new transportation infrastructure, and many new types of job will be created as transportation becomes more efficient. Municipalities that first embrace Transit X will be offered the opportunity to have Transit X manufacturing and assembly jobs in their area. The vast majority of the construction jobs will be locally sourced. Preferential hiring would be given to those workers displaced by the transition to automated vehicles.

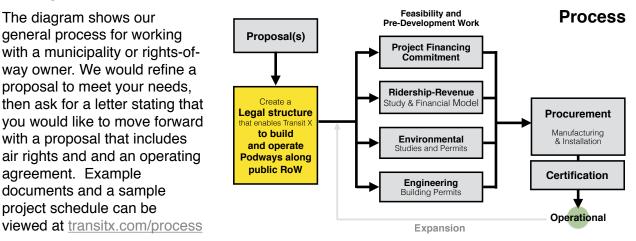
## **Revenue Generator**

Not only does Transit X not require public financing, but the local municipality and right-of-ways owners receive 5% of gross revenue, which would be US\$750 million per year average over the first 10 years. For specifics, please see the "Taxes and Fees" section of this proposal.

## Short and Long Term Solution

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

## **Moving Forward**



## 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 <u>transitx.com/process/mou.html</u>) stating that you intend to pass an ordinance that enables our use of air rights along with an operating agreement.

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

#### Other Resources

The links below provide general information about Transit X:

- · 2 minute video overview (transitx.com/video)
- Transit X Handbook (<u>transitx.com/transitxhandbook.pdf</u>)
- Letters of Project Financing, Due Diligence, Contracts (transitx.com/letters.pdf)
- Example Resolution (transitx.com/process/resolution.html)
- · Operating Agreement (transitx.com/process/operating\_agreement.html)
- General Q & A (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 agglomération Parisienne through better transportation.

Sincerely,

Mike Stanley CEO, Transit X

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



## **Project Overview**



	II di Sil A.			
1	Transit X network length	1,254	km	
2	People (resident-equivalent) in region	10,601,122	resident-equivalent p	opulation
3	Route density ratio (route length to service area)	0.55		
4	Number of stops	2,530		
5	Triple-speed route length	0	km	
6	Water crossing route length	0	km	
7	Cost of fixed infrastructure	\$4,548,702,122		
8	per person	\$429		
9	Mode share of travel on Transit X	71%		
10	Distance traveled on Transit X, per year	63,773,087,457	km	
11	per day	174,720,788	km	
12	Daily potential energy generation with standard panels on tracks	9,632	MWh	
13	Sustainable energy use per day	2,608	MWh	27% of max capacity
14	Energy storage capital cost for 1 day(s) of supply at \$800 per kWh	\$2,086,763,409		
15	Size (rated power) of solar installation	606,424	KW	
16	Cost to generate sustainable energy (at \$2,000 per kWh)	\$1,212,848,160		
17	Cost of buying sustainable energy at \$0.15 per kWh	\$391,268	per day	28% of OPEX
18	Daily passengers riding Transit X	7,502,716		71% 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	\$1.09		Euro
22	Passenger distance traveled during peak hour	34,944,158		Luio
23	Breakeven			
	Diedkeven	1,347,009	customers per day	
24			(14% of people conve	enient to Transit X)
25	Number of pods for peak demand	203,785	pods	
26		,		
20	Number of customers per pod	36.8	and 52 people per	pod
27	Number of customers per pod Distance per pod per year		and 52 people per	pod
		36.8 168,192 224,164	and 52 people per km m <sup>2</sup>	pod 0.2% of car parking
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27 28 29 30	Distance per pod per year Two-layer pod garage area (17% of route with side-parking) Cost of pods Capital cost of energy generation and storage	36.8 168,192 224,164 \$1,324,602,500	and 52 people per km m <sup>2</sup> is \$96 per person is \$405 per persor	0.2% of car parking
27 28 29 30 31	Distance per pod per year Two-layer pod garage area (17% of route with side–parking) Cost of pods Capital cost of energy generation and storage Project Finances	36.8 168,192 224,164 \$1,324,602,500 \$4,289,495,039	and 52 people per km m <sup>2</sup> is \$96 per person is \$405 per person 8,333,495,723	0.2% of car parking
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<ul> <li>27</li> <li>28</li> <li>29</li> <li>30</li> <li>31</li> <li>32</li> <li>33</li> <li>34</li> </ul>	Distance per pod per year Two-layer pod garage area (17% of route with side–parking) Cost of pods Capital cost of energy generation and storage Project Finances Total Project Cost (privately financed) Project cost Equity	36.8 168,192 224,164 \$1,324,602,500 \$4,289,495,039 \$10,162,799,662 \$8,103,515 \$3,048,839,899	and 52 people per km m <sup>2</sup> is \$96 per person is \$405 per person s \$405 per person per km 2,500,048,717	0.2% of car parking
27 28 29 30 31 32 33 34 35 36 37	Distance per pod per year Two-layer pod garage area (17% of route with side–parking) Cost of pods Capital cost of energy generation and storage Project Finances Total Project Cost (privately financed) Project cost Equity	36.8 168,192 224,164 \$1,324,602,500 \$4,289,495,039 \$10,162,799,662 \$8,103,515 \$3,048,839,899	and 52 people per km m <sup>2</sup> is \$96 per person is \$405 per person s \$405 per person per km 2,500,048,717	0.2% of car parking
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27 28 29 30 31 32 33 33 34 35 36 37 38 38 39	Distance per pod per year Two-layer pod garage area (17% of route with side-parking) Cost of pods Capital cost of energy generation and storage <b>Project Finances</b> Total Project Cost (privately financed) Project cost Equity Private debt financing	36.8 168,192 224,164 \$1,324,602,500 \$4,289,495,039 \$10,162,799,662 \$8,103,515 \$3,048,839,899 \$7,113,959,763 \$1,067,093,964	and 52 people per km m <sup>2</sup> is \$96 per person is \$405 per person 8,333,495,723 per km 2,500,048,717 5,833,447,006 875,017,051	0.2% of car parking
27 28 29 30 31 32 33 34 35 36 37 38 39 40	Distance per pod per year Two-layer pod garage area (17% of route with side–parking) Cost of pods Capital cost of energy generation and storage <b>Project Finances</b> Total Project Cost (privately financed) Project cost Equity Private debt financing	36.8 168,192 224,164 \$1,324,602,500 \$4,289,495,039 \$10,162,799,662 \$8,103,515 \$3,048,839,899 \$7,113,959,763	and 52 people per km m <sup>2</sup> is \$96 per person is \$405 per person 8,333,495,723 per km 2,500,048,717 5,833,447,006 875,017,051	0.2% of car parking
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27 28 29 30 31 32 33 34 35 36 37 38 37 38 39 40 41 42 43 44	Distance per pod per year Two-layer pod garage area (17% of route with side–parking) Cost of pods Capital cost of energy generation and storage Project Finances Total Project Cost (privately financed) Project cost Equity Private debt financing Debt service (per year) Yearly fees and taxes (US\$105 per capita) OPEX + Debt service + Tex + Fees Project costs – per person	36.8 168,192 224,164 \$1,324,602,500 \$4,289,495,039 \$10,162,799,662 \$8,103,515 \$3,048,839,899 \$7,113,959,763 \$1,067,093,964 \$1,067,093,964 \$1,108,740,525 \$2,003,974,073 \$959	and 52 people per m <sup>2</sup> is \$96 per person is \$405 per person 8,333,495,723 per km 2,500,048,717 5,833,447,006 875,017,051 909,167,231 2,200,859,068 786	0.2% of car parking
27 28 29 30 31 32 33 34 35 36 37 38 37 38 39 40 41 42 43	Distance per pod per year Two-layer pod garage area (17% of route with side–parking) Cost of pods Capital cost of energy generation and storage <b>Project Finances</b> Total Project Cost (privately financed) Project cost Equity Private debt financing Debt service (per year) Yearly fees and taxes (US\$105 per capita) OPEX + Dobt service + Tax + Fees Project costs – per person Number of motor vehicles displaced	36.8 168,192 224,164 \$1,324,602,500 \$4,289,495,039 \$10,162,799,662 \$8,103,515 \$3,048,839,899 \$7,113,959,763 \$1,067,093,964 <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b> <b>\$1,067,093,964</b>	and 52 people per m <sup>2</sup> is \$96 per person is \$405 per person 8,333,495,723 per km 2,500,048,717 5,833,447,006 875,017,051 909,167,231 2000,000,000 786 motor vehicles	0.2% of car parking
27 28 29 30 31 32 33 34 35 36 37 38 37 38 39 40 41 42 43 44 45	Distance per pod per year Two-layer pod garage area (17% of route with side–parking) Cost of pods Capital cost of energy generation and storage <b>Project Finances</b> Total Project Cost (privately financed) Project cost Equity Private debt financing Debt service (per year) Yearly fees and taxes (US\$105 per capita) OPEX + Dobt service + Tex + Fees Project costs – per person Number of motor vehicles displaced	36.8 168,192 224,164 \$1,324,602,500 \$4,289,495,039 \$10,162,799,662 \$8,103,515 \$3,048,839,899 \$7,113,959,763 \$1,067,093,964 <b>\$1,067,093,964</b> <b>\$1,108,740,525</b> 52,000,000,000 \$959 6,377,309 \$5,414	and 52 people per m <sup>2</sup> is \$96 per person is \$405 per person 8,333,495,723 per km 2,500,048,717 5,833,447,006 875,017,051 909,167,231 2000,000,000 786 motor vehicles	0.2% of car parking
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	Distance per pod per year Two-layer pod garage area (17% of route with side–parking) Cost of pods Capital cost of energy generation and storage <b>Project Finances</b> Total Project Cost (privately financed) Project cost Equity Private debt financing Debt service (per year) Yearly fees and taxes (US\$105 per capita) OPEX = Debt service 1 for a Food OPEX = Debt service 1 for a Food OPEX = Debt service 1 for a Food OPEX = Debt service 1 for a Food	36.8 168,192 224,164 \$1,324,602,500 \$4,289,495,039 \$10,162,799,662 \$8,103,515 \$3,048,839,899 \$7,113,959,763 \$1,067,093,964 \$1,067,093,964 \$1,108,740,525 \$959 6,377,309 \$5,414 \$0.01	and 52 people per m <sup>2</sup> is \$96 per person is \$405 per person 8,333,495,723 per km 2,500,048,717 5,833,447,006 875,017,051 909,167,231 786 motor vehicles 4,440	0.2% of car parking
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## Project Overview p. 2



## Impact of proposed network

1	Reduction in GHG emissions (in metric tons of CO2-eq)	6,297,592 MTCO2-eq
2	Est. cost to maintain 4,598 km roadway	\$234,520,898
3	Reduced waste products per year	1,021,964 metric tons
4	Travel time saved per year	413 hrs/person
5	Cost savings per capita per year from reduced car ownership	\$3,278
6	Increase in household income from time saving and car costs	21%
7	Reported injuries avoided per year	39,539
8	Lives saved per year	395
9	Land freed from parking (36,244 acres)	146,678,101 m <sup>2</sup>
10	and its commercial value	\$90,940,423 per year
11	Health care savings	High

## **Model Inputs**

	4	Ratio of road length to track length	15
km/h		Walking speed	16
km	1.63	Width of convenient swath along track	17
2	\$2,790,000	Fixed cost per km. Solar+storage not included.	18
	\$8,370,000	Water crossing: additional cost per km	19
	\$5,580,000	Triple-speed: additional cost per km	20
	2.2	Rate factor for water crossings or high-speed links.	21
km	10,000	Average distance traveled per person per year (for trips under 1600 km)	22
km		Average distance per day per person	23
at 5 n	85%	Mode share % of people convenient to Transit X	24
	20%	Percentage of daily demand during peak hour	25
pph	32,152	Maximum capacity per track	26
secor	10	Average dwell time during peak hour	27
	18%	% of pods traveling on route with highest demand	28
km/h		Average speed of pod	29
per d		Average # of trips for a daily customer	30
passe	3.0	Average passengers per pod during peak hours	31
passe	1.9	Average passengers per pod	32
	22%	Average discount per passenger	
passe	5	Maximum passengers per pod	33
	25%	Empty pods: Percentage non-revenue	34
	\$5,000	Ex-Factory cost per pod	35
	10,000	Worldwide Median Income per Household (US\$)	36
	2.3	Average number of residents per household	37
	\$0.23	Base fare per km	38
	\$0.38	(per mile)	39
	5%	O&M as % of project cost	40
	70%	Percentage debt financed	41
years	10	Length of loan/debt Interest rate for debt	42
	5%		43
	2.37	kg CO2 emissions per liter of gasoline	44
	7.75 \$51,000	Monetary value of 1 hour personal time (USD) Eat. roadway maintenance per year per km	45
m <sup>2</sup>	. ,	Area of one parking lot space	46
per m	23 \$1	Commercial income of land	47
km	0.49	Distance from roadway that is convenient	48
NIII	2.0	Stops per km	49
	2.0	Solar panel area per meter of track	50 51
ner k	\$0.15	Cost of sustainable energy and storage	52
kWh/		Global Horizontal Irradiance (GHI)	53
	\$2,000	Cost to generate sustainable energy	54
per k		Energy storage cost	55
days	φ000 1	Energy storage capacity	56
	2.20	Area of parked pod	57
	40%	Distance discount at max distance	58
km	40 %		59
NIII		Max distance discount	
	50%	Max usage discount at 10,000 km per capita	60
	20%	Shared Pod Discount	61
	40%	Shared Pod Compartment Discount	62

4		
4.9	km/h	
1.63	km	
790,000	2,287,800	Furo
370,000	2,207,000	Luio
580,000		
2.2		
2.2		
10,000	km	
27	km	
85%	at 5 min walk.	
20%		
32,152	pph	
10	seconds	
18%		
72	km/h	45 mph
3	per day	
3.0	passengers	
1.9	passengers	
22%		
5	passengers	
25%		
\$5,000	4,100	Euro
10,000	8,200	Euro
2.3		Euro
\$0.23	0.2	Euro
\$0.38	0.3	Euro
5%		
70%		
10	years	
5%		
2.37		
7.75	6	Euro
\$51,000	41,820	Euro
23	m <sup>2</sup>	
\$1	per m <sup>2</sup>	Euro
0.49	km	
2.0		
2.0		
\$0.15	per kWh	
3.8	kWh/m²/day	
\$2,000	per kW	
\$800	per kWh	
1	days	
2.20	m <sup>2</sup>	
40%		
500	km	
50%		
20%		
40%		

## Model Inputs (continued)

57	Name of region or project	agglomération Paris
58	Currency name	Euro
59	Equal to US\$1	0.82
60	Sustainable energy/electricity generation & storage as	CAPEX
61	Land area of region (sq. km)	2,845
62	Number of residents in region	10,601,122
63	% travel within region	85%
64	% of land area served by roads	80%
65	Coverage: % of pop. convenient (10 min walk) to Transit X	90%
66	Median household income (US\$)	31,000
67	Convenient walk time to stop (min)	10
68	Triple-speed route length (km)	0
69	Water crossing route length (km)	0.0
70	Visitors per year	0
71	Average length of visit (days)	2
72	Solar production ratio	1.57
73	Regional Fare Factor	1.0
74	EPC costs & contingency	30%
75	Triple-speed (km/h)	242

## Pod & Car

	Pod	Car
Service life (years)	20	12
Full cost of vehicle per year	\$200	\$9,000
Public cost to maintain infrastructure (per km)	\$0	\$100,000
Energy Efficiency in MPGe	1188	24
Energy Efficiency in liters/100km	0.20	9.8
Energy used (Watt-hours/km)	28	1375
mass of CO2 per vehicle per km (kg)	0	0.09875
Vehicle mass (kg)	45	1950
Average speed of urban travel (km/h)	72	16
Typical travel time (in minutes) for 8 km trip	6	29
Fare/cost per km	\$0.23	\$0.62
Number of deaths per 100M passenger-km	0.00001	1
Number of injuries per 100M passenger-km	0.0006	62
Volume to park (cubic meters)	5.7	70.9

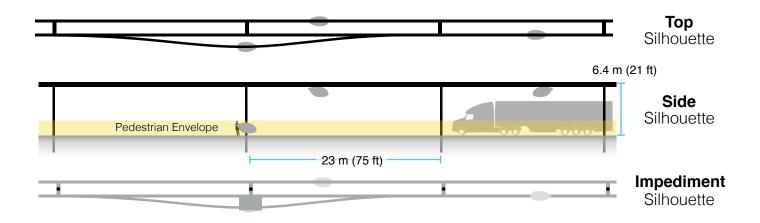


4% of gross revenue proportioned to air rights owners and a municipal fee/tax of 1% of gross revenue. Both air rights and fee/tax have a minimum payment based on the Footprint and the Transit X Commercial Rate (TXCR).

## 1 Municipal rates

	•			
2	Total commercial land (estimated)	227,600,000	m²	
3	Total commercial muni revenue (US\$)	\$141,112,000		115,711,840 Euro
4	TXCR (Transit X Commercial Rate)	\$0.62	per m <sup>2</sup>	0.5 Euro
5	TXCR is the yearly tax rate per land area. Calculation: total land area of commercial properties in the municipality, divided by all the municipal income generated by those properties. The TXCR is used to calculate the minimum tax/ fee.			
6	Project Revenue			
7	Length of Transit X route	1,254	km	
8	Estimated gross revenue per unit length	\$17,681,535	per km	14,498,859 Euro
9				
10	Government Tax	% of gross revenue w	ith minimum.	
11	1% gross revenue	\$176,815	per route-km	144,989 Euro
12	Minimum per year	\$1,025	per route-km	
13	Air Rights Leasing Fee	% of gross revenue w	ith minimum. P	roportioned based on length.
14	% of route on municipal land	90%		
15	4% gross revenue	\$707,261	per route-km	579,954 Euro
16	Minimum per year	\$1,025	per route-km	
17	Taxes, Fees			
18	Paid to Municipality	\$1,020,041,283	per year	836,433,852 Euro
19	with minimum	\$2,441,215		-
19 20	Paid to Private land owners		if 10% of RoW is	s over private property

## Footprint calculations for minimum fee



1	Footprint Calculations	Metric		Imperial	
2	Track width	<u>0.41</u>	m		
3	Track height	<u>0.61</u>	m		
4	Pole diameter	<u>0.3</u>			
5	Pole cross section	<u>0.07</u>			
6	Stop landing area		m <sup>2</sup>		
7	width		m		
8	length		m		
9	Ramp length	21			
10	Pole span	<u>23</u>			
11	Number of poles per unit length		poles per km		
12	Pole height	<u>6</u>	m		
13					
14	Single track	1126.7			
15	Area of Side Silhouette	688.3			
16	Area of Top Silhouette	423.1			
17	Impediment Area (adjusted)	15.4	m <sup>2</sup>		
18					
19	Dual track	1536.7			
20	Area of Side Silhouette	688.3			
21	Area of Top Silhouette	833.1			
22	Impediment Area (adjusted)	15.4	m <sup>2</sup>		
23					
24	Stop	57.8	m <sup>2</sup>		
25	Area of Side Silhouette	25.6			
26	Area of Top Silhouette	22.2	m <sup>2</sup>		
27	Impediment Area (adjusted)	10.0	m <sup>2</sup>		
28					
	Otomo	0			
29 30	Stops % of dual track		stops per km		
30 31	% Of dual track	100%			
	A	1 050	• • • •		
32	Average area per unit length	1,652	m² per route-km		
33					
34	Contract values				
35	% gross revenue for muni tax/fee	1%			
36	% gross revenue for air rights (RoW)	4%			
37	% gross revenue for RoW+tax+fee	5%			
38	Impediment Factor	5			





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

At 0.12 Euro per km, a typical commute on Transit X is 17% less than public transit and 74% less than a Taxi.\*

	Trip Length					
All prices in Euro	2 km	10 km	40 km			
Transit X	<b>0.23</b>	<b>1.14</b>	<b>4.37</b>			
	to 0.38	to 1.91	to 7.44			
	2 min., 3.6x faster	8 min., 3.6x faster	33 min., 3.4x faster			
Current Modes	<b>1.29</b> 1.04 to 1.79	<b>2.05</b> 1.04 to 7.78	<b>3.01</b> 1.59 to 30.26			
Taxi	<b>1.79</b>	<b>7.78</b>	<b>30.26</b>			
	2 to 6 minutes	8 to 30 minutes	30 to 120 minutes			
Uber/Lyft/TNC	<b>1.36</b>	<b>5.60</b>	<b>21.51</b>			
	2 to 6 minutes	8 to 30 minutes	30 to 120 minutes			
Public Bus	<b>1.04</b>	<b>1.04</b>	<b>1.59</b>			
	3 to 12 minutes	15 to 60 minutes	60 to 240 minutes			
Train	<b>1.56</b>	<b>1.83</b>	<b>2.87</b>			
	2 to 6 minutes	8 to 30 minutes	30 to 120 minutes			

	Avg.	Low	High				Min	Max	Time	Mo	de sh	are
	Speed	Speed	speed				Dist	Dist.	cost	6%	70%	24%
Travel mode	km/h	km/h	km/h	Base	Includ es km	Over per-km	km	km	per min	2	10	40
Тахі	30	20	80	1.04	1	0.52	0.5	100	0.46	5%	4%	1%
Uber/Lyft/TNC	30	20	80	0.83	1	0.42	0.5	100	0.23	10%	10%	2%
Public Bus	15	10	40	1.04	20	0.03	0.5	50	0	50%	50%	40%
Train	30	20	80	1.56	2	0.03	2	100	0	35%	36%	57%
Transit X	72	72	72	0	0	0.12	0.1	50	0	-	-	-

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

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



## **Fair Fare Formula**

	Formula Name	Value	Units	Description of the value or model input
1	GlobalIncome	8,200	Euro	Global median household income. Updated annually based on most recent
1	Giobalincome	0,200	Luio	standard published data.
2	AllTravel	23,000	km	Travel distance per household per year on any mode for trips under 1600 km. A global constant
3	PercentIncomeForTransport	20%		% of median household income for all transportation under 1600 km trips. A global constant.
4	GlobalRate	0.07	Euro/km	Global rate: GlobalIncome * PercentIncomeForTransport / AllTravel
5	MedianIncomeOrigin	25,420	Euro	Median household income at origin. External input. Based on reliable public data source updated annually.
6	MedianIncomeDest	25,420	Euro	Median household income at destination. External input. Based on reliable public data updated annually.
7	RegionalRate	0.22	Euro/km	Regional rate based on median income: MedianIncomeOrigin * PercentIncomeForTransport / AllTravel
8	UnderIncomeRate	0.00	Euro/km	Under global income adjustment: if (RegionalRate < GlobalRate, GlobalRate - RegionalRate, 0)
9	NominalRate	0.22	Euro/km	Nominal rate: RegionalRate + UnderIncomeRate
10	RegionalFactor	1.00		Regional Fare Factor. Negotiated upfront to make network financially viable.
11	AdjustedRate	0.22	Euro/km	Regional adjusted rate: NominalRate * RegionalFactor
13	Population	10,601,122		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	63,773,087,457	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	26%		Percent of Total Travel Per Capita on Transit X: PassengerTravel / (Population x AllTravel)
16	BaseRate	0.19	Euro/km	Base rate for single-passenger pod (without discounts) (1 - UsageMaxDiscount x min(1,ModeShare)) x AdjustedRate
17	SpecialRateFactor	2.20		Rate factor for water crossings or high-speed links. Global constant.
18	SpecialBaseRate	0.42	Euro/km	Base rate for high-speed travel or water crossings: BaseRate * SpecialRateFactor
19	DistanceDiscount	40%		Distance discount at max distance. Global constant.
20	MaxDistanceDiscount	500	km	Max distance discount. Global constant.
21	DistanceDiscountPerKm	0.000154	Euro/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 25	DiscountBaseRate SharedPodDiscount	<b>0.15</b>	Euro/km	<b>Discounted base rate:</b> BaseRate x (1 - SeniorDiscount) Discount for a shared pod. Set by Transit X per year. 15% minimum and 30%
20	Sharedi babiscount			maximum. Maximum yearly change is one percentage point.
26	SharedPodRate	0.15	Euro/km	Rate for a shared pod: BaseRate x (1 - SharedPodDiscount)
27	SharedCompartmentDiscount	40%		Discount for shared compartment. Set by Transit X per year. 25% minimum and 40% maximum. Maximum yearly change is one percentage point.
28	SharedCompartmentRate	0.12	Euro/km	Rate for shared compartment BaseRate x (1 - SharedCompartmentDiscount)
29		0.13	Euro/km	Rate for 500 km in single-passenger pod.
30	Senior + SharedCompartmentRate	0.06	Euro/km	Rate for a Senior taking a 500 km trip in a shared compartment. BaseRate x (1 - SeniorDiscountAmount) x (1 - SharedCompartmentDiscount) x (1 - MaxDistanceDiscount)
31	DistanceBase	47,192,084,718	km	Passenger distance under base fare. Audited value from operational data.
32	PercentBase	74%		Percent of passenger distance under base fare: DistanceBase / PassengerTravel
33	BaseRevenue	7,056,925,464	Euro	Annual revenue from all travel under base rate. Audited value from operational data.
34	AverageDiscount	22%		Average fare discount from Base Rate: 1 - (BaseRevenue / (DIstanceDase x BaseRate))
35	MarketFactor	1.0		Market rate factor. Negotiated value for setting ratio of AverageDiscount
36	MarketRateCap	22%		Cap on passenger travel distance at market rate: AverageDiscount x MarketFactor
37	MarketTravelCap	10,463,340,922	km	Cap on passenger travel distance at market rate: DistanceBase x MarketRateCap

## **Project Summary**

Project Description	Solar-powered automated transportation network infrastructure		
Project type	Privately-funded Green Infrastructure		
Project cost	\$10.16 billion		
Cost to Gov't	\$0		
Structure	Privately financed equity and debt		
Debt term	10 years @ 5%		
Equity terms	A waterfall profit distribution with: 1. 90/10 split until Return of Capital, 2. then 50/50 until Target IRR met 3. then 10/90 onwards		
Yearly fees & taxes	\$1,020,041,283		
Benefits to society and environment	Extremely high		

## **Financials**

(US\$ in millions)

	Year 1	Total Years 1-12
Gross Revenues	7,392	179,979
Taxes and fees	370	8,999
Debt service	\$921	\$9213

#### 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
Fixe Infrastructure	yes	Food security	yes



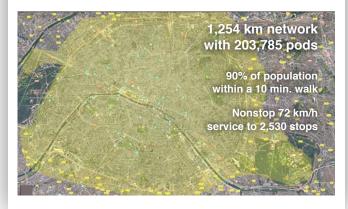


Transit X, LLC presents a preliminary proposal for a privately-funded fleet of fully-autonomous shared electric vehicles on local and regional podway network for

## agglomération Parisienne, France

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



#### About Transit X

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

## Status

	Now	Prior to close			
Project financing	Letter of Interest	Yes			
Demonstration system	In development	Yes			
Rider-Revenue study	Proposals	Yes			
Environmental study		Yes			
Air rights	Resolution	Ordinance			
Permits	Known process	Yes			
Safety certification	Guar. fixed price	Yes			
Installation	Letter of intent	Guar. fixed price			
<b>Operations &amp; Maint</b>	Letter of intent	Guar. fixed price			
Project Management	Appointed	Yes			
EPC	Appointed	Yes			

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

## 12-year Pro Forma



## **Model Inputs and Assumptions**

Route length (km)	1,254
Starting number of pods	67,928
Projected revenue growth	15%
Project Cost (Privately funded)	\$10,162,799,662
% Debt financed	70%
Debt	\$7,113,959,763
Equity	\$3,048,839,899
Capital return per year	\$609,767,980
Debt payment (per year)	\$921,290,335

#### Travel per year per pod (km) 168,192

- Revenue per vehicle-km (US\$) 0.65
  - OPEX as % of project cost 5%
    - Debt Interest rate 5%
      - Debt term (yrs) 10
- Years to return equity capital 5
- Profit share when below capital return 90%
  - Profit share when below Target IRR 50%
  - Profit share when above Target IRR 10%

#### Pro Forma

Yea	rs O	1	2	3	4	5	6	7	8	9	10	11	12
Revenue	0	7,391,567,230	8,500,302,314	9,775,347,661	11,241,649,810	12,927,897,282	14,867,081,874	17,097,144,155	19,661,715,779	22,610,973,146	26,002,619,117	29,903,011,985	34,388,463,783
5% RoW+tax+fee	0%	369,578,361	425,015,116	488,767,383	562,082,491	646,394,864	743,354,094	854,857,208	983,085,789	1,130,548,657	1,300,130,956	1,495,150,599	1,719,423,189
Debt service	0	\$921,290,335	\$921,290,335	\$921,290,335	\$921,290,335	\$921,290,335	\$921,290,335	\$921,290,335	\$921,290,335	\$921,290,335	\$921,290,335	0	0
Investor balance		-\$1,781,881,430	-\$411,671,552	\$1,077,277,445	\$2,702,776,431	\$4,485,307,902	\$6,448,426,733	\$8,131,406,643	\$10,053,213,336	\$12,249,670,828	\$14,761,976,740	\$17,729,637,369	\$21,115,007,533

#### **Important Notices**

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