



Transit X presents a preliminary proposal for privately-financed public transportation using a fleet of fully-autonomous shared electric vehicles on a local and regional podway network for

Lyon, France

This proposal is downloadable at transitx.com/proposals/Transit_X_for_Lyon,France.pdf

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

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



**133 km network
with 13,660 pods**

**95% of population
within a 2 min. walk**

**Nonstop 72 km/h
service to 1,330 stops**

Transit X proposes to build and operate a privately-financed pod network to carry passengers and freight for Lyon, France that makes the Transit X service convenient to 95% of the population.

Transit X efficiently services both suburbs and cities and provides for a higher quality of life. See transitx.com 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 (transitx.com/transitxhandbook.pdf) answers many questions about our service, the company, our technology, and the way we address:

congestion, parking, road safety, pedestrian safety, ADA compliance, sustainability, fares, solar+storage, construction, aesthetics, operations, economic development, quality of service, security, station footprint, equitability, carbon footprint, transit integration, resiliency, reliability, rights-of-way, and open space.

Congestion, parking, pollution, and safety

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

No public funding

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

Proven technology

Our team and partners have built fully automated systems that are now in operation around the world. Transit X may look unique, but the underlying design is very similar to systems that have been operating for 40 years with an exemplary safety record. An in-depth (1000+ hours) technical assessment and feasibility analysis has been completed by Altran, a global engineering firm with extensive expertise in automated transit systems. The first pilots of Transit X will be deployed by the end of 2018.

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

Service Quality

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

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

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

Sustainable

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

More Transit & Fewer Cars

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

De-risking Projects

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

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

Jobs and Workforce Development

Many jobs will be created to build a new transportation infrastructure, as well many new types of job will be created as transportation becomes more efficient. Transit X intends to build manufacturing and assembly plants around the world and locate them where Transit X is first deployed in a region. The vast majority of the construction jobs will be locally sourced. Preferential hiring would be given to those workers displaced by the transition to automated podways.

Revenue Generator

Not only does Transit X not require public financing, but the government and private easement owners receive 4-5% of gross revenue, which would be US\$47 million

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

Short and Long Term Solution

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

Moving Forward

The diagram shows our general process for working with a government or commercial entity. We would refine a proposal that meets your needs, then ask for a letter stating you will create a legal framework for Transit X to build and operate a podway in your region. Example documents and a sample project schedule can be viewed at:

transitx.com/process



Evaluation

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

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

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

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

Whatever process you use to evaluate this proposal, Transit X is open to working with you on refining this proposal to meet your needs. We hope you will conclude

that moving forward with Transit X is an excellent opportunity to meet your current and future challenges.

Once we agree to move forward, we need a memorandum of understanding (example at transitx.com/process/mou.html) stating that you intend to pass an ordinance that enables our use of air rights along with an operating agreement.

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

Other Resources

The links below provide general information about Transit X:

- 2 minute video overview (transitx.com/video)
- Transit X Handbook (transitx.com/transitxhandbook.pdf)
- Letters of Project Financing, Due Diligence, Contracts (transitx.com/letters.pdf)
- Memorandum of Understanding template (transitx.com/process/mou.html)
- Example Resolution (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 Lyon 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 Messenger: m.me/MikeStanleyMIT
Twitter: <https://twitter.com/MikeTransitX>
Mail: 1127 Commonwealth Ave #30, Boston, MA 02134 USA



1	Transit X network length	133 km	
2	People (resident-equivalent) in region	506,615	resident-equivalent population
3	Route density ratio (route length to service area)	2.91	
4	Number of stops	1,330	
5	Triple-speed route length	0 km	
6	Water crossing route length	0 km	
7	Cost of fixed infrastructure	\$480,984,612	
8	...per person	\$949	
9	Mode share of travel on Transit X (28% after first year)	84%	after 10 years
10	Distance traveled on Transit X, per year	4,274,675,264 km	
11	...per day	11,711,439 km	
12	Daily potential energy generation with standard panels on tracks	1,018 MWh	
13	Sustainable energy use per day	58 MWh	6% of max capacity
14	Energy storage capital cost for 1 day(s) of supply at \$100 per kWh	\$5,828,109	
15	Size (rated power) of solar installation	13,549 KW	
16	Cost to generate sustainable energy (at \$1,000 per kW)	\$13,549,425	
17	Cost of buying sustainable energy at \$0.15 per kWh	\$8,742 per day	11% of OPEX
18	Daily passengers riding Transit X	427,468 customers	84% of the pop.
19	Distance per passenger per day	27 km	
20	Average distance per trip (assuming 3 trips per day)	9 km	
21	Single passenger fare for shared 9 km trip	\$1.21	0.99 Euro
22	Passenger distance traveled during peak hour	2,342,288 km	
23	Breakeven	73,613	customers per day
24			(15% of people convenient to Transit X)
25	Number of pods for peak demand	13,660	pods at 84% mode share
26	Number of customers per pod	31.3	and 37 people per pod
27	Distance per pod per year	168,187 km	
28	Two-layer pod garage area (11% of route with side-parking)	15,026 m ²	0.2% of car parking
29	Cost of pods	\$88,790,000	is \$135 per person
30	Capital cost of energy generation and storage	\$25,190,794	is \$50 per person
31	Project Finances		
32	Total Project Cost (privately financed)	\$594,965,406	487,871,633 Euro
33	Project cost	\$4,486,504	per km
34	Equity	\$178,489,622	146,361,490 Euro
35	Private debt financing	\$416,475,784	341,510,143 Euro
36			
37			
38			
39	Debt service (per year)	\$62,471,368	51,226,521 Euro
40	Yearly fees and taxes (US\$138 per capita)	\$69,816,484	57,249,517 Euro
41	OPEX + Debt service + Tax + Fees	\$162,036,122	132,869,620 Euro
42			
43			
44	Project costs — per person	\$1,174	963 Euro
45	Number of motor vehicles displaced	427,468	motor vehicles
46	Yearly cost of cars displaced — per person	\$7,594	6,227 Euro
47	Operating costs per passenger-km	\$0.01	
47	Full costs per passenger-km	\$0.04	
48	Breakeven revenue distance per day	2,016,792 km	
49	Number of tracks in one direction needed to satisfy peak demand	0.08	



Impact of proposed network

1	Reduction in GHG emissions (metric tons CO2-eq)	422,124 MTCO2-eq annually
2	Estimated cost to maintain public roadways	\$23,493,306 annually
3	Reduced waste products	68,502 metric tons annually
4	Travel time saved (non-stop travel and congestion)	486 hrs/person annually
5	Cost savings from reduced car ownership	\$3,999 per person annually
6	Increase in household income (from time savings and car costs)	25%
7	Reported injuries avoided	2,650 annually
8	Lives saved (from safety)	27 annually
9	Land freed from parking (2,429 acres)	9,831,753 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	0.33 km	
18	Fixed cost per km. Solar+storage not included.	\$2,790,000	2,287,800 Euro
19	Water crossing: additional cost per km	\$8,370,000	
20	Triple-speed: additional cost per km	\$5,580,000	
21	Rate factor for water crossings or high-speed links.	2.2	
22	Average distance traveled per person per year (for trips under 1600 km)	10,000 km	
23	Average distance per day per person	27 km	
24	Mode share % of people convenient to Transit X	85%	at 5 min walk.
25	Percentage of daily demand during peak hour	20%	
26	Maximum capacity per track	32,152 pph	
27	Average dwell time during peak hour	10 seconds	
28	% of pods traveling on route with highest demand	18%	
29	Average speed of pod	72 km/h	45 mph
30	Average # of trips for a daily customer	3 per day	
31	Average passengers per pod during peak hours	3.0 passengers	
32	Average passengers per pod	1.9 passengers	
	Average discount per passenger	22%	
33	Maximum passengers per pod	5 passengers	
34	Empty pods: Percentage non-revenue	25%	
35	Ex-Factory cost per pod	\$5,000	4,100 Euro
36	Worldwide Median Income per Household (US\$)	10,000	8,200 Euro
37	Average number of residents per household	2.3	Euro
38	Base fare per km	\$0.22	0.2 Euro
39	(per mile)	\$0.35	0.3 Euro
40	O&M as % of project cost	5%	
41	Percentage debt financed	70%	
42	Length of loan/debt	10 years	
43	Interest rate for debt	5%	
44	kg CO2 emissions per liter of gasoline	2.37	
45	Monetary value of 1 hour personal time (USD)	\$7.75	6 Euro
46	Eat. roadway maintenance per year per km	\$51,000	41,820 Euro
47	Area of one parking lot space	23 m ²	
48	Commercial income of land (annual)	\$0.62 per m ²	Euro
49	Distance from roadway that is convenient	0.10 km	
50	Stops per km	10.0	
51	Solar panel area per meter of track	2.0	
52	Cost of sustainable energy and storage	\$0.15 per kWh	
53	Global Horizontal Irradiance (GHI)	3.8 kWh/m ² /day	
54	Cost to generate sustainable energy	\$1,000 per kW	
55	Storage per column	40 kWh	
56	Typical span	23 m	cols/km: 44
57	Energy storage cost	\$100 per kWh	
58	Energy storage capacity	1 days	
59	Area of parked pod	2.20 m ²	
60	Distance discount at max distance	40%	
61	Max distance discount	500 km	
62	Max usage discount at 10,000 km per capita	50%	
63	Shared Pod Discount	20%	
64	Shared Pod Compartment Discount	40%	
65	Mode share starting discount	67%	

Model Inputs (continued)

67	Name of region or project	Lyon, France
68	Currency name	Euro
69	Equal to US\$1	0.82
70	Sustainable energy/electricity generation & storage as	CAPEX
71	Land area of region (sq. km)	48
72	Number of residents in region	506,615
73	% travel within region	100%
74	% of land area served by roads	95%
75	Coverage: % of pop. convenient (2 min walk) to Transit X	95%
76	Annual median household income (US\$)	\$31,000
77	Convenient walk time to stop (min)	2
78	Triple-speed route length (km)	0
79	Water crossing route length (km)	0.0
80	Visitors per year	0
81	Average length of visit (days)	2
82	Solar production ratio	1.57
83	Regional Fare Factor	1.0
84	EPC costs & contingency	30%
85	Triple-speed (km/h)	242

Pod & Car

	Pod	Car
86	Service life (years)	20 12
87	Full cost of vehicle per year	\$200 \$9,000
88	Public cost to maintain infrastructure (per km)	\$0 \$100,000
89	Energy Efficiency in MPGe	3564 24
90	Energy Efficiency in liters/100km	0.07 9.8
91	Energy used (Watt-hours/km)	9 1375
92	mass of CO2 per vehicle per km (kg)	0 0.09875
93	Vehicle mass (kg)	45 1950
94	Average speed of urban travel (km/h)	72 16
95	Typical travel time (in minutes) for 9 km trip	8 34
96	Fare/cost per km	\$0.22 \$0.62
97	Number of deaths per 100M passenger-km	0.00001 1
98	Number of injuries per 100M passenger-km	0.0006 62
99	Volume to park (cubic meters)	5.7 70.9



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

1	Government Fees and Tax rate	(for calculating minimums)	
2	Total commercial land (estimated)	4,560,000 m ²	acres
3	Total commercial gov't revenue (US\$)	\$2,827,200	2,318,304 Euro
4	TXCR (Transit X Commercial Rate)	\$0.62 per m ²	0.5 Euro
5	<i>TXCR is the yearly tax rate per land area. Calculation: total land area of commercial properties in the governmental region, divided by all the governmental income generated by those properties. The TXCR is used to calculate the minimum tax/fee.</i>		
6			
7	Private Easement Fees		
8	4% of gross revenue	\$105.29 per route-meter	
9	Minimum per year	\$1.05 per route-meter	
10	Government Fees and Taxes		
11	% of route on government easements	98%	
12	5% on government easements	\$68,420,155	56,104,527 Euro
13	1% on private easements	\$279,266	
14	Total gov't fees and taxes	\$68,699,421 per year	56,333,525 Euro
16	per resident	\$136	111 Euro
15	with a minimum of	\$138,769 per year	113,791 Euro

Footprint calculations for minimum fee

Yearly fees and taxes



1	Footprint Calculations	Metric	Imperial
2	Track width	0.41 m	
3	Track height	0.61 m	
4	Pole diameter	0.3 m	
5	Pole cross section	0.07 m ²	
6	Stop landing area	2 m ²	
7	...width	2 m	
8	...length	1 m	
9	Ramp length	21 m	
10	Pole span	23 m	
11	Number of poles per unit length	43.5 poles per km	
12	Pole height	6 m	
13			
14	Single track	1142.1 m ²	
15	...Area of Side Silhouette	688.3 m ²	
16	...Area of Top Silhouette	423.1 m ²	
17	...Impediment Area (adjusted)	30.7 m ²	
18			
19	Dual track	1552.1 m ²	
20	...Area of Side Silhouette	688.3 m ²	
21	...Area of Top Silhouette	833.1 m ²	
22	...Impediment Area (adjusted)	30.7 m ²	
23			
24	Stop	67.8 m ²	
25	...Area of Side Silhouette	25.6 m ²	
26	...Area of Top Silhouette	22.2 m ²	
27	...Impediment Area (adjusted)	20.0 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	1,688 m ² 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 0.11 Euro per km, a typical commute on Transit X is 17% less than public transit and 74% less than a Taxi.*

All prices in Euro		Trip Length		
		2 km	10 km	40 km
Transit X	0.22 to 0.36	1.07 to 1.79	4.10 to 6.99	
	2 min., 3.6x faster	8 min., 3.6x faster	33 min., 3.4x faster	
Public transit average		1.21	1.93	2.82
Common public modes	Taxi	1.68 2 to 6 minutes	7.31 8 to 30 minutes	28.43 30 to 120 minutes
	Uber/Lyft	1.28 2 to 6 minutes	5.26 8 to 30 minutes	20.21 30 to 120 minutes
	Public Bus	0.97 3 to 12 minutes	0.97 15 to 60 minutes	1.49 60 to 240 minutes
	Train	1.46 2 to 12 minutes	1.72 8 to 60 minutes	2.70 30 to 240 minutes
Personal car		1.43 2 to 6 minutes	4.54 8 to 30 minutes	16.23 30 to 120 minutes

Travel mode	Avg. Speed	Low Speed	High speed	Base	Includ es km	Over per-km	Min Dist.	Max Dist.	Time cost	Mode share		
	km/h	km/h	km/h				km	km	per min	2	10	40
Taxi	30	20	80	0.97	1	0.49	0.5	100	0.43	5%	4%	1%
Uber/Lyft	30	20	80	0.78	1	0.39	0.5	100	0.22	10%	10%	2%
Public Bus	15	10	40	0.97	20	0.03	0.5	50	0	50%	50%	40%
Train	30	10	80	1.46	2	0.03	2	100	0	35%	36%	57%
Transit X	72	72	72	0	0	0.11	0.1	50	0	-	-	-
Personal car	30	20	80	0.65	0	0.32	0.1	400	0.13	-	-	-

* All numbers on mode shares, speeds, and costs are rough estimates..

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



Fair Fare Formula

Fare rates are updated annually using this formula

	Formula Name	Value	Units	Description of the value or model input
1	GlobalIncome	8,200	Euro	Global median household income. Updated annually based on most recent standard published data.
2	AllTravel	23,000	km	Travel distance per household per year on any mode for trips under 1600 km. A global constant
3	PercentIncomeForTransport	20%		% of median household income for all transportation under 1600 km trips. A global constant.
4	GlobalRate	0.07	Euro/km	Global rate: GlobalIncome * PercentIncomeForTransport / AllTravel
5	IncomeFirst	\$25,420	Euro	Median household income at first stop (per person per day). External input. Based on reliable public data source updated annually.
6	IncomeDest	\$38,130	Euro	Median household income at destination per trip. External input. Based on reliable public data updated annually.
7	RegionalRate	0.22	Euro/km	Regional rate based on median income: MedianIncomeFirst * 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	506,615		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	4,274,675,264	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	37%		Percent of Total Travel Per Capita on Transit X: PassengerTravel / (Population x AllTravel)
16	BaseRate	0.18	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	0.40	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	0.000144	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	DiscountBaseRate	0.14	Euro/km	Discounted base rate: BaseRate x (1 - SeniorDiscount)
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	0.14	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	0.11	Euro/km	Rate for shared compartment BaseRate x (1 - SharedCompartmentDiscount)
29	SingleOccupancyMaxDistance	0.12	Euro/km	Rate for 500 km in single-passenger pod.
30	Senior + SharedCompartmentRate	0.05	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	50PctIncomeAtDest	25%	Euro/km	% Higher fare rate if Destination has 50% higher median income than First (IncomeDest / IncomeFirst - 1) / 2
32	DistanceBase	3,163,259,696	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	444,368,827	Euro	Annual revenue from all travel under base rate. Audited value from operational data.
35	AverageDiscount	22%		Average fare discount from Base Rate: 1 - (BaseRevenue / (DistanceBase x BaseRate))
36	MarketFactor	1.0		Market rate factor. Negotiated value for setting ratio of AverageDiscount
37	MarketRateCap	22%		Cap on passenger travel distance at market rate: AverageDiscount x MarketFactor
38	MarketTravelCap	701,352,034	km	Cap on passenger travel distance at market rate: DistanceBase x MarketRateCap

Project Summary

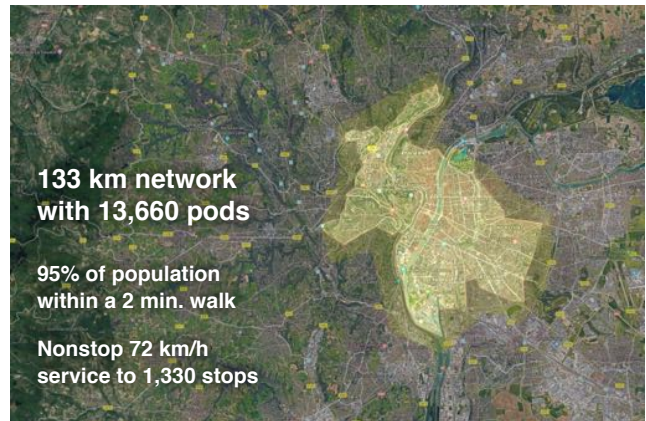
Project Description	A fully-automated, solar-powered, ultra-light, micro railway
Project type	Privately-funded Public Transportation Design, Build, Finance, Own, Operate, Maintain (DBFOOM)
Project cost	US\$595 million
Cost to Gov't	\$0
Structure	Privately financed equity and debt
Debt term	10 years @ 5%
Equity terms	A waterfall profit distribution with: <ol style="list-style-type: none"> 1. 90/10 split until Return of Capital, 2. then 50/50 until Target IRR met 3. then 10/90 onwards
Taxes & Fees	\$68,699,421 per year
Benefits to society and environment	Extremely high



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

Lyon, France

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 transit infrastructure to supplant buses, trains, cars, and trucks. Transit X offers its service to governments and commercial developers. First pilots will begin in 2019. Transit X is a privately held company founded in 2015, based in Boston, Massachusetts, and intends to be certified as a public benefit company.

Financials

(US\$ in millions)

	Year 1	Total Years 1-12
Gross Revenues	461	11,220
Taxes and fees	23	561
Debt service	\$54	\$539

ESG (Environmental, Social, Governance) Benefits

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

Status

	Now	Prior to close
Project financing	Financing letter	Yes
Demonstration system	Ready	Yes
Rider-Revenue study	Preliminary	Yes
Environmental study	Expedited	Yes
Air rights	Letter of Intent	Yes
Permitting	Expedited	Yes
Safety certification	Expedited	Yes
Construction firm	Letter of interest	Contract
Design and major subs	Letter of interest	Contract
Operations & Maint	Letter of interest	Contract
Utility relocation	Identified	Agreements

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



Model Inputs and Assumptions

Route length (km)	133	Travel per year per pod (km)	168,187
Starting number of pods	4,508	Revenue per vehicle-km (US\$)	0.61
Projected revenue growth	15%	OPEX as % of project cost	5%
Project Cost (Privately funded)	\$594,965,406	Debt Interest rate	5%
% Debt financed	70%	Debt term (yrs)	10
Debt	\$416,475,784	Years to return equity capital	5
Equity	\$178,489,622	Profit share when below capital return	90%
Capital return per year	\$35,697,924	Profit share when below Target IRR	50%
Debt payment (per year)	\$53,935,519	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	460,809,242	529,930,628	609,420,222	700,833,255	805,958,244	926,851,980	1,065,879,777	1,225,761,744	1,409,626,005	1,621,069,906	1,864,230,392	2,143,864,951
5% RoW-tax+fee	0%	23,040,462	26,496,531	30,471,011	35,041,663	40,297,912	46,342,599	53,293,989	61,288,087	70,481,300	81,053,495	93,211,520	107,193,248
Debt service	0	\$53,935,519	\$53,935,519	\$53,935,519	\$53,935,519	\$53,935,519	\$53,935,519	\$53,935,519	\$53,935,519	\$53,935,519	\$53,935,519	0	0
Investor balance		-\$101,509,360	-\$18,063,183	\$72,818,795	\$172,251,945	\$281,518,944	\$402,094,867	\$507,117,714	\$627,096,615	\$764,274,977	\$921,232,719	\$1,106,330,301	\$1,317,586,114

Important Notices

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