



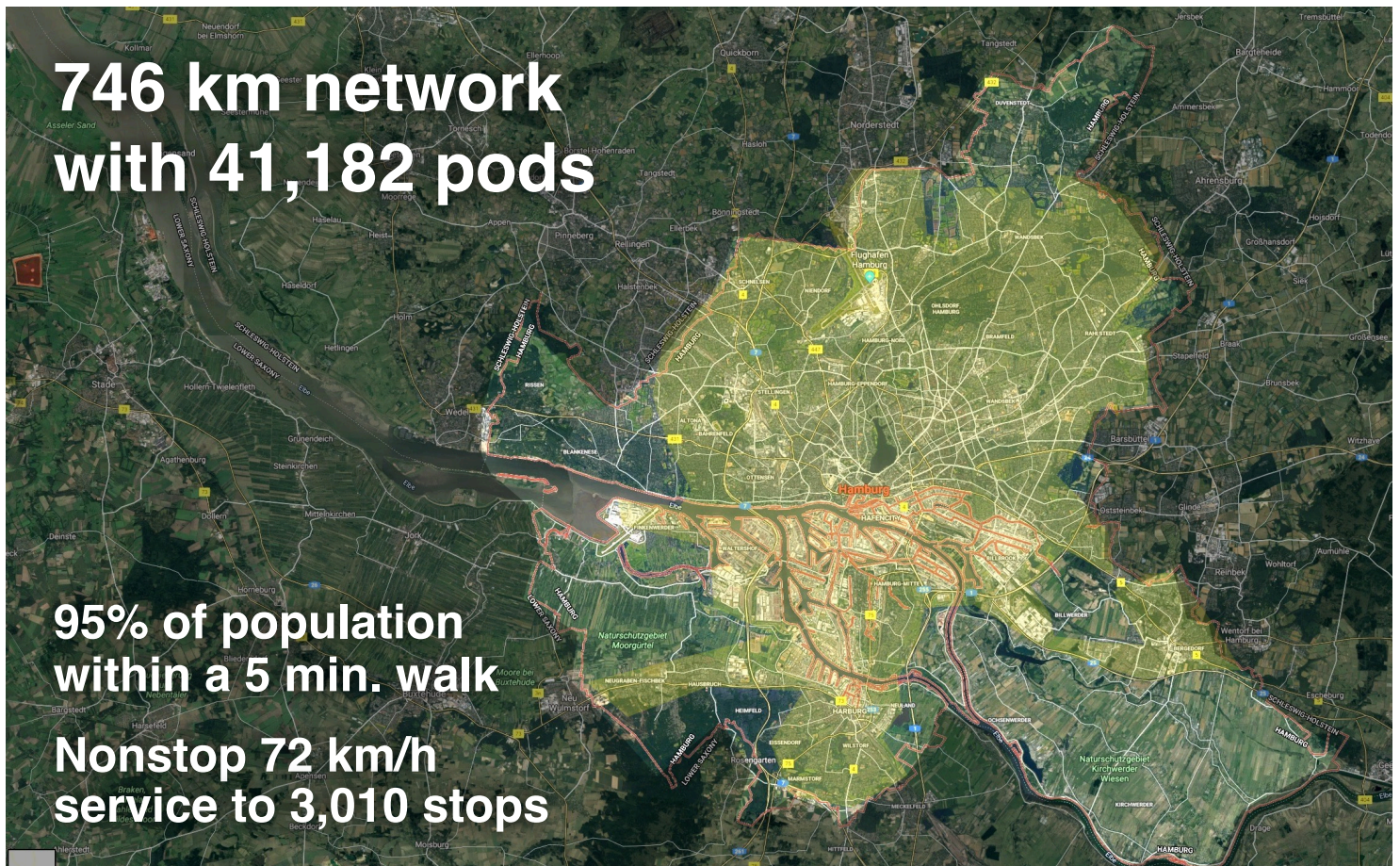
Transit X presents a preliminary proposal for a privately-financed public transit system — a fleet of automated electric vehicles (pods) for passengers and freight on a local and inter-city micro-guideway providing equitable transportation for

Hamburg, Germany

This proposal is downloadable at transitx.com/proposals/Transit_X_for_Hamburg_Germany.pdf

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

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



Transit X proposes to finance, build and operate a sustainable micro-guideway to carry passengers and freight for Hamburg 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, accessibility, sustainability, fares, solar+storage, construction, aesthetics, operations, economic development, quality of service, security, station footprint, equitability, carbon footprint, transit integration, resiliency, reliability, rights-of-way, and open space.



Congestion, parking, pollution, and safety

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

High Capacity & High Speed

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

Zero Footprint and Minimal Disruption

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

Low-cost Infrastructure & equitable fares

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

Proven technology

Our team and partners have built fully automated systems that are now in operation around the world. Transit X may look unique, but the underlying design is very similar to systems that have been operating for 40 years with an exemplary safety record. The rollout and maiden flight occurred on Oct 29, 2018 in Leominster, Massachusetts. The first project groundbreaking will be in 2020.

Service Quality

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

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

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

Sustainable and Efficient

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

More Transit & Fewer Cars

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

De-risking Projects

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

Jobs and Workforce Development

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

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

Revenue Generator for Government

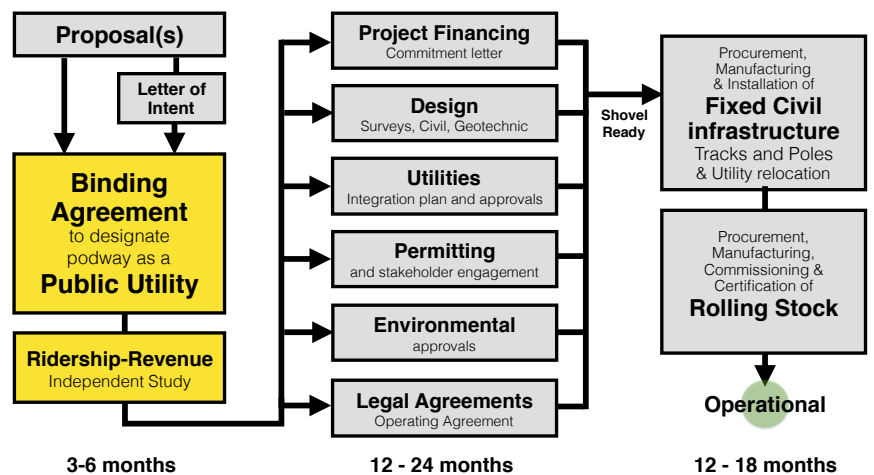
Not only does Transit X not require public financing, but the government and private easement owners receive 4-5% of gross revenue, which would be US\$185 million per year average over the first 10 years.

Short and Long Term Solution

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

Moving Forward

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



Evaluation

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

We expect this proposal to be reviewed by one or more committees or working groups. Familiar transportation options, such as buses, light rail, subways, and 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.

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

We look to a commitment for Transit X to build and operate podways along public rights-of-way, similar to other public utilities.

Other Resources

The links below provide general information about Transit X:

- One minute video overview (transitx.com/video)
- 7 minute video presentation (<https://vimeo.com/366066646/eac953c0cc>)
- Transit X Handbook (transitx.com/transitxhandbook.pdf)
- Company profile (transitx.com/about.pdf)
- Other proposals (transitx.com/proposals)
- The process and templates for agreements (transitx.com/process)

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 Hamburg through better transportation.

Sincerely,



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

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

Website: transitx.com

Twitter: <http://twitter.com/TransitXCorp>

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





1	Transit X network length	746.5 km	
2	People (resident-equivalent) in region	1,822,445	resident-equivalent population
3	Route density ratio (route length to service area)	1.16	
4	Number of stops	3,010	
5	Triple-speed route length	0 km	
6	Water crossing route length	0 km	
7	Cost of fixed infrastructure	\$2,707,648,026	
8	...per person	\$1,486	
9	Mode share of travel on Transit X (27% after first year)	81%	after 10 years
10	Distance traveled by passengers on Transit X, per year	12,508,806,869 km	
11	...per day	34,270,704 km	
12	Daily potential energy generation with standard panels on tracks	5,733.3 MWh	
13	Sustainable energy use per day	175.7 MWh	3.0% of max capacity
14	Energy storage capital cost for 1 day(s) of supply at \$250 per kWh	\$43,927,751	
15	Size (rated power) of solar installation	40,850 KW	
16	Cost to generate sustainable energy (at \$1,000 per kW)	\$40,850,010	
17	Cost of buying sustainable energy at \$0.15 per kWh	\$26,357 per day	6% of OPEX
18	Daily passengers riding Transit X	1,471,624 customers	81% of the pop.
19	Distance per passenger per day	23 km	
20	Average distance per trip (assuming 3 trips per day)	8 km	
21	Single passenger fare for shared 8 km trip	\$1.16	1.04 Euro
22	Passenger distance traveled during peak hour	6,854,141 km	
23	Breakeven	356,246	customers per day (24% of expected and 21% of people convenient to Transit X)
24	Boarding capacity	1,083,600	passengers per hour (74% of customers)
25	Number of pods for peak demand	41,182	pods at 81% mode share
26	Number of customers per pod	35.7	and 44 people per pod
27	Distance per pod per year	168,193 km	
28	Two-layer pod garage area (7% of route with side-parking)	45,300 m ²	0.2% of car parking
29	Cost of pods	\$267,683,000	is \$113 per person
30	Capital cost of energy generation and storage	\$110,211,089	is \$60 per person
31	Project Finances		
32	Total Project Cost	\$3,085,542,114	2,776,987,903 Euro
33	Project cost per km	\$4,133,204	per km
34	Equity financing	\$925,662,634	833,096,371 Euro
35	Debt financing	\$2,159,879,480	1,943,891,532 Euro
36			
37			
38			
39	Debt service (per year)	\$367,179,512	330,461,560 Euro
40	Yearly fees and taxes (US\$128 per capita)	\$232,425,226	209,182,703 Euro
41	OPEX + Debt service + Tax + Fees	\$753,881,843	678,493,659 Euro
42			
43			
44	Project costs — per person	\$1,693	1,524 Euro
45	Number of motor vehicles displaced	1,250,881	motor vehicles
46	Yearly cost of cars displaced — per person	\$6,177	5,560 Euro
47	Operating costs per passenger-km	\$0.01	
47	Full costs per passenger-km	\$0.06	
48	Breakeven revenue distance per day	8,296,139 km	



Impact of proposed network

1	Reduction in GHG emissions (metric tons CO ₂ -eq)	1,235,245 MTCO ₂ -eq annually
2	Estimated cost to maintain public roadways	\$259,319,388 annually
3	Reduced waste products	200,454 metric tons annually
4	Travel time saved (non-stop travel and congestion)	413 hrs/person annually
5	Cost savings from reduced car ownership	\$3,154 per person annually
6	Increase in household income (from time savings and car costs)	20%
7	Reported injuries avoided	7,755 annually
8	Lives saved (from safety)	78 annually
9	Land freed from parking (7,109 acres)	28,770,256 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	0.82	km
18	Fixed cost per km (track & posts)	\$2,790,000	2,511,000 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 in a developed county 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	31,206	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	2.9	passengers
32	Average passengers per pod	1.8	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	4,500 Euro
36	Worldwide Median Income per Household (US\$)	10,000	9,000 Euro
37	Average number of residents per household	2.3	Euro
38	Base fare per km	\$0.25	0.2 Euro
39	(per mile)	\$0.40	0.4 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	7%	
44	kg CO ₂ emissions per liter of gasoline	2.37	
45	Monetary value of 1 hour personal time (USD)	\$8.41	8 Euro
46	Est. roadway maintenance per year per km	\$100,000	90,000 Euro
47	Area of one parking lot space	23	m ²
48	Commercial income of land (annual)	\$0.67	per m ² Euro
49	Distance from roadway that is convenient	0.25	km
50	Stops per km	4.0	
51	Boarding capacity per stop	360	pph
52	Solar panel area per meter of track	2.0	
53	Cost of sustainable energy and storage	\$0.15	per kWh
54	Global Horizontal Irradiance (GHI)	3.8	kWh/m ² /day
55	Cost to generate sustainable energy	\$1,000	per kWh
56	Storage per column	40	kWh
57	Typical span	23	m cols/km: 44
58	Energy storage cost	\$250	per kWh
59	Energy storage capacity	1	days
60	Area of parked pod	2.20	m ²
61	Distance discount at max distance	40%	
62	Max distance discount	500	km
63	Max usage discount at 10,000 km per capita	50%	
64	Shared Pod Discount	20%	
65	Shared Pod Compartment Discount	40%	
66	Mode share starting discount	67%	

Model Inputs (continued)

68	Name of region or project	Hamburg, Germany
69	Currency name	Euro
70	Equal to US\$1	0.9
71	Sustainable energy/electricity generation & storage as	CAPEX
72	Land area of region (sq. km)	755
73	Number of residents in region	1,822,445
74	% travel within region	85%
75	% of land area served by roads	85%
76	Coverage: % of pop. convenient (5 min walk) to Transit X	95%
77	Annual median household income (US\$)	\$33,652
78	Convenient walk time to stop (min)	5
79	Triple-speed route length (km)	0
80	Water crossing route length (km)	0.0
81	Visitors per year	0
82	Average length of visit (days)	2
83	Solar production ratio	1.57
84	Regional Fare Factor	1.0
85	EPC costs & contingency	30%
86	Triple-speed (km/h)	242
87	Daily Passengers Adjustment	100%
88	Number of Stops Adjustment	100%
89	Mode Share Adjustment	100%

Pod & Car

		Pod	Car
90	Service life (years)	20	12
91	Full cost of vehicle per year	\$200	\$9,000
92	Public cost to maintain infrastructure per year per km	\$0	\$100,000
93	Energy consumption (MPGe)	3564	24
94	Energy consumption (liters/100km)	0.07	9.8
95	Energy consumption (Watt-hours/km)	9	1375
96	mass of CO ₂ per vehicle per km (kg)	0	0.09875
97	Vehicle mass (kg)	45	1950
98	Average speed of urban travel (km/h)	72	16
99	Typical travel time (in minutes) for 8 km trip	6	29
100	Fare/cost per km	\$0.25	\$0.62
101	Number of deaths per 100M passenger-km	0.00001	1
102	Number of injuries per 100M passenger-km	0.0006	62
103	Volume to park (cubic meters)	5.7	70.9



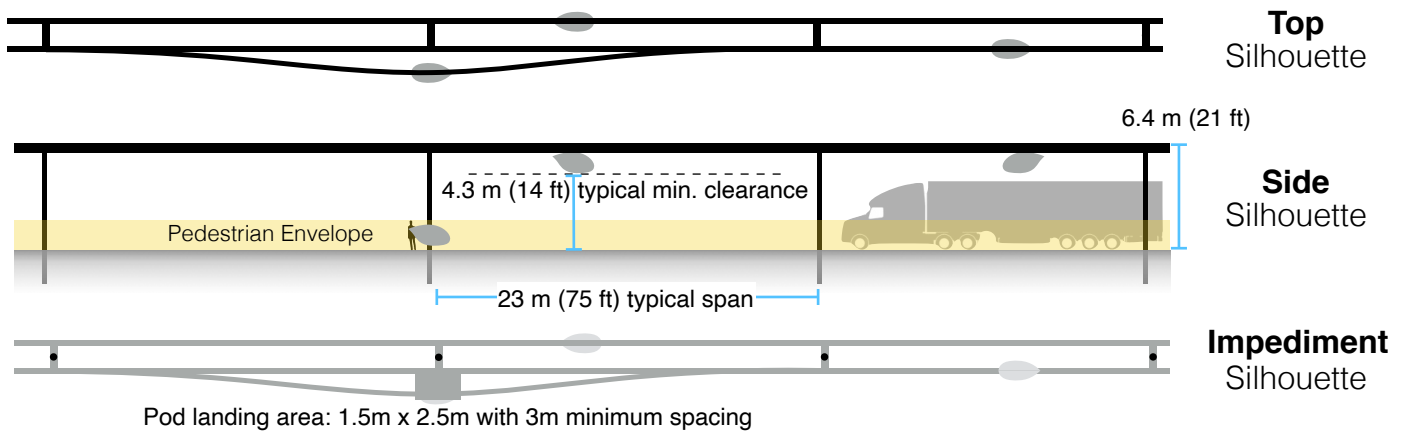
5% of gross revenue is paid for air rights and local taxes.

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

1	Air-rights and Local Taxes	(for calculating minimums)	
2	Total commercial land (estimated)	64,175,000 m ²	acres
3	Total commercial gov't revenue (US\$)	\$43,192,342	38,873,108 Euro
4	TXCR (Transit X Commercial Rate)	\$0.67 per m ² (estimated)	0.6 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	For example	
8	4% of gross revenue	\$62.27 per route-meter	
9	Minimum per year	\$1.00 per route-meter	
10	Transit X payment to Government		
11	% of route on government easements	98% estimated	
12	Total air-rights and local taxes	\$228,706,422 per year	205,835,780 Euro
13	per resident	\$125	113 Euro
14	with a minimum of	\$746,733 per year	672,059 Euro
15			0 Euro
16	Other financial benefits to Government		
17	Less road maintenance from lower VMT		
18	Public land made available from less parking and lanes		
19	Reduced emergency and police services for road-related incidents		
20	Less investment needed in road-based infrastructure (charging stations, signals, BRT, etc)		

Footprint calculations for minimum fee

Yearly fees and taxes



1	Footprint Calculations	Metric	Imperial
2	Track width	0.30 m	
3	Track height	0.60 m	
4	Post diameter	0.3 m	
5	Post cross section	0.07 m ²	
6	Stop landing area	3.75 m ²	
7	...width	1.5 m	
8	...length	2.5 m	
9	Ramp length	21 m	
10	Typical Span	23 m	
11	Number of posts per unit length	43.5 poles per km	
12	Post height	6 m	
13			
14	Single track	1022.1 m ²	
15	...Area of Side Silhouette	678.3 m ²	
16	...Area of Top Silhouette	313.1 m ²	
17	...Impediment Area (adjusted)	30.7 m ²	
18			
19	Dual track	1322.1 m ²	
20	...Area of Side Silhouette	678.3 m ²	
21	...Area of Top Silhouette	613.1 m ²	
22	...Impediment Area (adjusted)	30.7 m ²	
23			
24	Stop	82.1 m ²	
25	...Area of Side Silhouette	25.2 m ²	
26	...Area of Top Silhouette	19.4 m ²	
27	...Impediment Area (adjusted)	37.5 m ²	
28			
29	Stops with dedicated landing areas	2 stops per km	
30	% of dual track	100%	
31			
32	Average area per unit length	1,486 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	<p>Faster travel saves a household 295 hours per year.* At 0.13 Euro per km, a typical commute on Transit X is 17% less than public transit and 74% less than a Taxi.*</p>
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All prices in Euro		Trip Length		
		2 km	10 km	40 km
Transit X		0.27 to 0.45 2 min., 3.6x faster	1.33 to 2.22 8 min., 3.6x faster	5.09 to 8.68 33 min., 3.4x faster
Public transit average		1.50	2.39	3.50
Common public modes	Taxi	2.08 2 to 6 minutes	9.07 8 to 30 minutes	35.29 30 to 120 minutes
	Uber/Lyft	1.59 2 to 6 minutes	6.53 8 to 30 minutes	25.09 30 to 120 minutes
	Public Bus	1.21 3 to 12 minutes	1.21 15 to 60 minutes	1.86 60 to 240 minutes
	Train	1.81 2 to 12 minutes	2.14 8 to 60 minutes	3.35 30 to 240 minutes
Personal car		1.75 2 to 6 minutes	5.54 8 to 30 minutes	19.74 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	1.21	1	0.60	0.5	100	0.54	5%	4%	1%
Uber/Lyft	30	20	80	0.97	1	0.48	0.5	100	0.27	10%	10%	2%
Public Bus	15	10	40	1.21	20	0.03	0.5	50	0	50%	50%	40%
Train	30	10	80	1.81	2	0.04	2	100	0	35%	36%	57%
Transit X	72	72	72	0	0	0.13	0.1	50	0	-	-	-
Personal car	30	20	80	0.81	0	0.40	0.1	400	0.14	-	-	-

* 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 less than the amount of discounted fares. Transit X Fair Fare Formula and Fair Freight Formula is universal and applies to all regions and all times.



Fair Fare Formula

Fare rates are updated annually using this formula

	Name	Value	Units	Description of the value or model input	In USD
1	GlobalIncome	9,000	Euro	Global median household income. Updated annually based on most recent standard published data.	10,000
2	AllTravel	23,000	km	Travel distance per household per year on any mode for trips under 1600 km. A global constant	
3	PercentIncomeForTransport	20%		% of median household income for all transportation under 1600 km trips. A global constant.	
4	GlobalRate	0.08	Euro/km	Global rate: GlobalIncome * PercentIncomeForTransport / AllTravel	0.09
5	IncomeFirst	\$30,287	Euro	Median household income at first stop (per person per day). External input. Based on reliable public data source updated annually.	\$33,652
6	IncomeDest	\$45,430	Euro	Median household income at destination per trip. External input. Based on reliable public data updated annually.	\$50,478
7	RegionalRate	0.26	Euro/km	Regional rate based on median income: MedianIncomeFirst * PercentIncomeForTransport / AllTravel	0.29
8	UnderIncomeRate	0.00	Euro/km	Under global income adjustment: if (RegionalRate < GlobalRate, GlobalRate - RegionalRate, 0)	0.00
9	NominalRate	0.26	Euro/km	Nominal rate: RegionalRate + UnderIncomeRate	0.29
10	RegionalFactor	1.00		Regional Fare Factor. Negotiated upfront to make network financially viable.	
11	AdjustedRate	0.26	Euro/km	Regional adjusted rate: NominalRate * RegionalFactor	0.29
13	Population	1,822,445		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	12,508,806,86€ 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	30%		Percent of Total Travel Per Capita on Transit X: PassengerTravel / (Population x AllTravel)	
16	BaseRate	0.22	Euro/km	Base rate for single-passenger pod (without discounts) (1 - UsageMaxDiscount x min(1, ModeShare)) x AdjustedRate	0.25
17	SpecialRateFactor	2.20		Rate factor for water crossings or high-speed links. Global constant.	
18	SpecialBaseRate	0.49	Euro/km	Base rate for high-speed travel or water crossings: BaseRate * SpecialRateFactor	0.55
19	DistanceDiscount	40%		Distance discount at max distance. Global constant.	
20	MaxDistanceDiscount	500	km	Max distance discount. Global constant.	
21	DistanceDiscountPerKm	0.000179	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	0.18	Euro/km	Discounted base rate: BaseRate x (1 - SeniorDiscount)	0.20
25	SharedPodDiscount	20%		Discount for requesting a shared pod. 15% minimum and 30% maximum.	
26	SharedPodRate	0.18	Euro/km	Rate for a shared pod: BaseRate x (1 - SharedPodDiscount)	0.20
27	SharedCompartmentDiscount	40%		Discount for requesting a shared compartment. 25% minimum and 40% maximum. At least 10 percentage points higher than SharedPodDiscount.	
28	SharedCompartmentRate	0.13	Euro/km	Rate for shared compartment BaseRate x (1 - SharedCompartmentDiscount)	0.15
29	SingleOccupancyMaxDistance	0.15	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)	0.07
31	50PctIncomeAtDest	25%		% Higher fare rate if Destination has 50% higher median income than First (IncomeDest / IncomeFirst - 1) / 2	
32	DistanceBase	9,256,517,083 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	1,623,669,108 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	2,010,145,494 km		Cap on passenger travel distance at market rate: DistanceBase x MarketRateCap	

Project Summary

Project Description A fully-automated, solar-powered, micro-guideway network providing a sustainable transportation utility.

Project type Sustainable Transportation Infrastructure
Design, Build, Finance, Own, Operate, Maintain (DBFOOM)

Project equity US\$926 million (30% of total)

Cost to Gov't \$0

Structure Privately financed equity and debt

Debt term 10 years @ 7%

Equity terms A waterfall profit distribution per year with:

1. 90% until capital payback,
2. then 50% until Target% is reached
3. then 10%

Taxes & Fees \$228,706,422 per year

Benefits to society and environment Extremely high

Estimated return 47% average IRR at 5 yrs
54% average IRR at 10 yrs

Financials

(US\$ in millions)	Year 1	Total Years 1-12
Gross Revenues	1,534	44,489
Taxes and fees	77	2,224
Debt service	\$151	\$1,663

ESG (Environmental, Social, Governance) Benefits

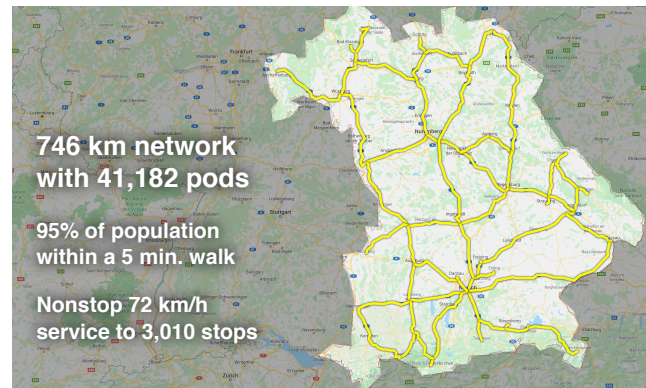
Clean Energy yes	Improve Resiliency yes
Energy security yes	Sustainable yes
Zero Emissions yes	Equitable yes
Zero GHG yes	Recyclable Materials yes
Lowers Pollution yes	Affordable Housing yes
Clean Water yes	Improved Health yes
Improved Safety yes	Economic Development yes
Add Green Space yes	Access to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



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

Hamburg, Germany

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



About Transit X

Transit X finances, designs, builds, and operates solar-electric micro-guideway public transit podways to supplant buses, trains, cars, and trucks. Transit X offers its service to governments and commercial developers. Maiden Flight was on Oct 29, 2018 and pilot projects started in 2019. First pilots will break ground in 2020 and begin operations in 2021. Transit X is a privately held company founded in 2015, based in Boston, Massachusetts.

Status

	Now	Prior to close
Project financing	Available	Yes
Test Track	2018	Yes
Rider-Revenue study	Internal model	Yes
Environmental study	Per region	Yes
Air rights	Per project	Yes
Permitting	Per project	Yes
Safety certification	Per country	Yes
Construction firm	Per project	Yes
Design and major subs	Per project	Yes
Operations & Maint	Partners	Yes
Utility relocation	Per project	Agreements

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



Model Inputs and Assumptions

Route length (km)	746	462	Travel per year per pod (km)	168,193
Starting number of pods	13,590		Revenue per vehicle-km (US\$)	0.67
Projected revenue growth	15%		OPEX as % of project cost	5%
Project Cost (Privately funded)	\$3,085,542,114		Debt Interest rate	7%
% Debt financed	70%		Debt term (yrs)	10
Debt	\$2,159,879,480		Profit share when below capital return	90%
Equity	\$925,662,634		Profit share when below Target IRR	50%
Debt payment (per year)	\$151,191,564		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	1,533,999,719	1,764,099,677	2,028,714,629	2,333,021,823	2,682,975,096	3,085,421,361	3,548,234,565	4,080,469,749	4,692,540,212	5,396,421,244	6,205,884,430	7,136,767,095
5% RoW+tax+fee	0%	76,699,986	88,204,984	101,435,731	116,651,091	134,148,755	154,271,068	177,411,728	204,023,487	234,627,011	269,821,062	310,294,222	356,838,355
Debt service	0	\$151,191,564	\$151,191,564	\$151,191,564	\$151,191,564	\$151,191,564	\$151,191,564	\$151,191,564	\$151,191,564	\$151,191,564	\$151,191,564	\$151,191,564	\$151,191,564
Investor share	0	932,983,162	232,335,117	252,564,544	275,828,384	302,581,800	333,348,229	368,729,622	409,418,224	456,210,116	510,020,792	571,903,070	643,067,689
Investor share (%)		90%	19%	18%	17%	16%	15%	14%	14%	13%	13%	12%	12%
Share / Orig Capital	0%	101%	25%	27%	30%	33%	36%	40%	44%	49%	55%	62%	69%
IRR to date	loss	1%	21%	35%	42%	47%	50%	52%	53%	54%	54%	55%	55%

Important Notices

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

Jobs Report*

This would create 22,000 new jobs in manufacturing, construction, and operations. About 21,900 existing transportation jobs would be impacted — of which 3,500 workers would need significant retraining. Improving the transportation infrastructure will boost the economy overall and lead to 32,200 new jobs. Lowering the cost of transportation and reducing travel times raises household income by 20%.

1	Annual median household income (US\$)	\$33,652	
2	CAPEX		
3	Average gross CAPEX salary (% of median HH)	125%	
4	Average gross CAPEX salary	\$42,065	
5	% of CAPEX as salary	15%	
6	Years of CAPEX	2	
7	# of CAPEX jobs	5,500	
8	% of jobs that are manufacturing vs. construction	75%	
9	Manufacturing jobs	4,130	
10	Construction jobs	1,380	
11	Supply chain jobs factor	3	
12	Jobs in supply chain	16,530	
13	Average gross OPEX salary (% of median HH)	115%	
14	Average gross OPEX salary	\$38,700	
15	% of OPEX as salary	30%	
16	Operations and Maintenance jobs	1,200	
17	Secondary-effect jobs factor	7%	
18	Secondary effect jobs	32,220	
19	<u>Job transitioning and training</u>		
20	Expected mode share at 10 years (from page 6, line 9)	81%	
21	% of population with a full-time job	60%	1,093,467
22	...jobs in transportation	10%	109,347
23	...jobs impacted with this proposed network	20%	21,869
24	...jobs requiring significant retraining	20%	4,374
25	Jobs needing retraining with this proposed network (over 10 years)	0.3%	3,530
26	Training cost per person as % of salary (from line 13)	100%	\$38,700
27	Number of years that training is divided across	10	
28	Ratio (as %) of training costs vs. gov't revenue from Transit X	6%	\$13,661,029

* Numbers are approximations based on a universal model. A regional study could analyze data based on local conditions.