



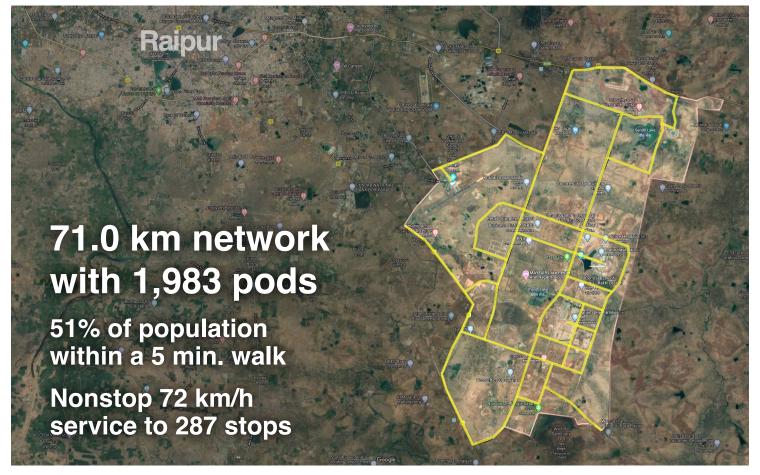
Transit X presents a preliminary proposal for a privately-financed public transit system — a fleet of automated electric vehicles (pods) for passengers and freight on a local and inter-city micro-guideway providing equitable transportation for

Naya Raipur, Chhattisgarh, India

This proposal is downloadable at transitx.com/proposals/Transitx X for Naya Raipur, Chhattisgarh, India.pdf

High capacity • High speed • Nonstop • 24/7 Sustainable • 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 microguideway to carry passengers and freight for Naya Raipur that makes a podway convenient to 51% 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,



renewable energy & 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. The Transit X podway can integrate into the built environment, providing both short term relief and a long term solution.

High Capacity & High Speed

A single guideway 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 projects do not require government funding because revenue from fares, freight, and advertising is much higher 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, podways create walkable and bike-friendly neighborhoods.

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

Transit X podways offer 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 guideway. 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. Renewable energy and storage installed on our guideways and posts provide 100% of the clean energy needed to power the system.

More Transit & Fewer Cars

Podways 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 leads 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 podway. 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

Projects do not require government funding, and owners of the rights-of-way receive a Toll Share that is 5% of gross revenue for rights-of-way, estimated to be US\$2 million per year at the revenue target.

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. Example documents and a sample project schedule can be viewed at:

transitx.com/process

Project Financing Proposal(s) Commitment let Procurement, Manufacturing & Installation Letter of Intent Design Fixed Civil Shove Surveys, Civil, Geotechnic infrastructure Tracks and Poles & Utility relocation Utilities **Binding** Agreement to designate Procurement. Permittina Manufacturing podway as a nd stakeholder engagemen **Public Utility Rolling Stock Environmental** Ridership-Revenue Independent Stud **Legal Agreements** Operational 3-6 months 12 - 24 months 12 - 18 months

Evaluation

Please review our

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

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

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

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

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

We look to a commitment enabling 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:

- Video presentations: <u>transitx.com/video</u> (2 min) <u>transitx.com/v</u> (5 min)
- Transit X Handbook (<u>transitx.com/transitxhandbook.pdf</u>)
- Company profile (<u>transitx.com/about.pdf</u>)
- Other proposals (<u>transitx.com/w</u>)
- The process and templates for agreements (<u>transitx.com/process</u>)

Addendum

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

- Project Overview and Impact pages 6 and 7
- Toll Share pages 8 and 9
- Fares page 10 and 11
- Jobs Report page 12

We look forward to working with you to improve the quality of life for Naya Raipur 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



Project Overview



	TI GITOTO.		
1	Podway network length	71.0	km
2	People (resident-equivalent) in region	200,000	resident-equivalent population
3	Route density ratio (route length to service area)	0.62	
4	Number of stops	287	
5	Triple-speed route length	0	km
6	Water crossing route length	0	km
7	Cost of fixed infrastructure	\$257,669,186	
8	per resident	\$1,288	
9	Target podway mode share	43%	
10	Distance traveled by passengers on podway, per year	823,650,000	km
11	per day	2,256,575	km
12	Daily potential energy generation on podway	818.4	MWh
13	Sustainable energy use per day	8.5	MWh
14	Energy storage capital cost for 1 day(s) of supply at \$200 per kWh	\$1,692,482	
15	Nominal power of solar installation to meet self-demand	1,967	kW
16	Cost to generate sustainable energy (at \$1,000 per kW)	\$1,967,375	
17	Cost to buy sustainable energy at \$0.08 per kWh	\$677	per day
18	Daily podway passengers	86,700	customers 43% of the pop.
19	Distance per passenger per day	26	km
20	Average distance per trip (assuming 3 trips per day)	9	km
21	Single passenger fare for shared 9 km trip	\$0.01	1.00 INR
22	Revenue from Base Fare		/vehicle-km
23 24	Revenue from Market Fare Total Fare Revenue	·	/vehicle-km /vehicle-km
25	Passenger distance traveled during peak hour	451,315	
	r accorder alciance traveled daning peak near		
26	Boarding capacity	,	passengers per hour (119% of customers)
26 27	Boarding capacity Number of pods for peak demand	103,320	
27	Number of pods for peak demand	103,320 1,983	pods at 43% mode share
27 29	Number of pods for peak demand Breakeven (as percentage of target ridership)	103,320 1,983 47%	pods at 43% mode share
27 29 28	Number of pods for peak demand Breakeven (as percentage of target ridership) Number of customers per pod	103,320 1,983 47% 43.7	pods at 43% mode share and 101 residents per pod
27 29 28 29	Number of pods for peak demand Breakeven (as percentage of target ridership) Number of customers per pod Distance per pod per year	103,320 1,983 47% 43.7 168,224	pods at 43% mode share and 101 residents per pod km
27 29 28 29 30	Number of pods for peak demand Breakeven (as percentage of target ridership) Number of customers per pod Distance per pod per year Operating costs (including Toll Share)	103,320 1,983 47% 43.7 168,224 \$0.03	pods at 43% mode share and 101 residents per pod km /vehicle-km
27 29 28 29 30 30	Number of pods for peak demand Breakeven (as percentage of target ridership) Number of customers per pod Distance per pod per year Operating costs (including Toll Share) Pod garage area (4% of route with side–parking)	103,320 1,983 47% 43.7 168,224 \$0.03 2,181	pods at 43% mode share and 101 residents per pod km /vehicle-km m² 0.1% of car parking
27 29 28 29 30 30 31	Number of pods for peak demand Breakeven (as percentage of target ridership) Number of customers per pod Distance per pod per year Operating costs (including Toll Share) Pod garage area (4% of route with side–parking) Cost of pods	103,320 1,983 47% 43.7 168,224 \$0.03 2,181 \$12,889,500	pods at 43% mode share and 101 residents per pod km /vehicle-km m² 0.1% of car parking is \$50 per resident
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27 29 28 29 30 30 31 32 33 P 34 35	Number of pods for peak demand Breakeven (as percentage of target ridership) Number of customers per pod Distance per pod per year Operating costs (including Toll Share) Pod garage area (4% of route with side–parking) Cost of pods Capital cost of energy generation and storage Project Finances Total Project Cost Project cost per km	103,320 1,983 47% 43.7 168,224 \$0.03 2,181 \$12,889,500 \$4,757,814 \$275,316,500 \$3,875,407	pods at 43% mode share and 101 residents per pod km /vehicle-km m² 0.1% of car parking is \$50 per resident is \$24 per resident 19,822,788,008 INR per km
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27 29 28 29 30 31 32 33 P 36 37	Number of pods for peak demand Breakeven (as percentage of target ridership) Number of customers per pod Distance per pod per year Operating costs (including Toll Share) Pod garage area (4% of route with side–parking) Cost of pods Capital cost of energy generation and storage Project Finances Total Project Cost Project cost per km Project costs — per resident Net Revenue	\$275,316,500 \$3,875,407 \$35,316,175 \$35,417,175	pods at 43% mode share and 101 residents per pod km /vehicle-km m² 0.1% of car parking is \$50 per resident is \$24 per resident 19,822,788,008 INR per km 99,114 INR
27 29 28 29 30 31 32 33 P 34 35 36 37 38	Number of pods for peak demand Breakeven (as percentage of target ridership) Number of customers per pod Distance per pod per year Operating costs (including Toll Share) Pod garage area (4% of route with side–parking) Cost of pods Capital cost of energy generation and storage Project Finances Total Project Cost Project cost per km Project costs — per resident Net Revenue Toll Share	103,320 1,983 47% 43.7 168,224 \$0.03 2,181 \$12,889,500 \$4,757,814 \$275,316,500 \$3,875,407 \$1,377 \$35,417,175 \$1,770,859	pods at 43% mode share and 101 residents per pod km /vehicle-km m² 0.1% of car parking is \$50 per resident is \$24 per resident 19,822,788,008 INR per km 99,114 INR
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27 29 28 29 30 31 32 33 P 34 35 36 37 38 39 40	Number of pods for peak demand Breakeven (as percentage of target ridership) Number of customers per pod Distance per pod per year Operating costs (including Toll Share) Pod garage area (4% of route with side–parking) Cost of pods Capital cost of energy generation and storage Project Finances Total Project Cost Project cost per km Project costs — per resident Net Revenue Toll Share Operating Expenses Interest	\$275,316,500 \$3,875,407 \$1,983 47% 43.7 168,224 \$0.03 2,181 \$12,889,500 \$4,757,814 \$275,316,500 \$3,875,407 \$1,377 \$35,417,175 \$1,770,859 \$7,083,435 \$9,636,078	pods at 43% mode share and 101 residents per pod km /vehicle-km m² 0.1% of car parking is \$50 per resident is \$24 per resident 19,822,788,008 INR per km 99,114 INR
27 29 28 29 30 31 32 33 P 34 35 36 37 38 39 40 41	Number of pods for peak demand Breakeven (as percentage of target ridership) Number of customers per pod Distance per pod per year Operating costs (including Toll Share) Pod garage area (4% of route with side–parking) Cost of pods Capital cost of energy generation and storage Project Finances Total Project Cost Project cost per km Project costs — per resident Net Revenue Toll Share Operating Expenses Interest Taxes	\$275,316,500 \$3,875,407 \$1,97 \$168,224 \$0.03 2,181 \$12,889,500 \$4,757,814 \$275,316,500 \$3,875,407 \$1,377 \$35,417,175 \$1,770,859 \$7,083,435 \$9,636,078 \$1,692,680	pods at 43% mode share and 101 residents per pod km /vehicle-km m² 0.1% of car parking is \$50 per resident is \$24 per resident 19,822,788,008 INR per km 99,114 INR
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27 29 28 29 30 31 32 33 P 34 35 36 37 38 39 40 41 42 43	Number of pods for peak demand Breakeven (as percentage of target ridership) Number of customers per pod Distance per pod per year Operating costs (including Toll Share) Pod garage area (4% of route with side–parking) Cost of pods Capital cost of energy generation and storage Project Finances Total Project Cost Project cost per km Project costs — per resident Net Revenue Toll Share Operating Expenses Interest Taxes Net Operating Income (NOI) Cap Rate (NOI / Project Cost)	\$275,316,500 \$3,875,407 \$1,983 47% 43.7 168,224 \$0.03 2,181 \$12,889,500 \$4,757,814 \$275,316,500 \$3,875,407 \$1,377 \$35,417,175 \$1,770,859 \$7,083,435 \$9,636,078 \$1,692,680 \$15,234,123 0.06	pods at 43% mode share and 101 residents per pod km /vehicle-km m² 0.1% of car parking is \$50 per resident is \$24 per resident 19,822,788,008 INR per km 99,114 INR
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Impact of proposed network

Project Overview p. 2

1 Transit	Reduction in GHG emissions (metric tons CO2-eq)	81,335 MTCO2-eq annually
2	Estimated cost to maintain public roadways	\$45,968,327 annually
3	Reduced waste products	13,199 metric tons annually
4	Travel time saved (non-stop travel and congestion)	462 hrs/person annually
5	Cost savings from reduced car ownership	\$4,960 per person annually
6	Increase in household income (from time savings and car costs)	342%
7	Reported injuries avoided	511 annually
8	Lives saved (from safety)	5 annually
9	Land freed from parking (468 acres)	1,894,395 m ²
12	Temperature reduction (from heat island effect & GHG reductions)	0.5 to 2 °C
11	Health care savings (from pollution, injuries)	High

Inputs and Assumptions

			inputs a	and As
15	Ratio of road length to guideway length	4		
16	Walking speed	4.9	km/h	
17	Width of convenient swath along podway	0.82		
18	Fixed cost per km (track & posts)	\$2,790,000	200,880,000	INR
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 a podway		at 5 min walk.	
25	Percentage of daily demand during peak hour	20%		
26	Maximum capacity per guideway	42,665	• •	
27	Average dwell time during peak hour		seconds	
28	% of pods traveling on route with highest demand	18%		
29	Average speed of pod		km/h	45 mph
30	Average # of trips for a daily customer		per day	
31	Average passengers per pod during peak hours		passengers	
32	Average passengers per pod		passengers	
	Average discount per passenger	27%		
33	Maximum passengers per pod		passengers	
34	Empty pods: Percentage non-revenue	25%		
35	Ex-Factory cost per pod	\$5,000	360,000	
36	Worldwide Median Income per Household (US\$)	\$10,000	720,000	
37	Average number of residents per household		people/house	INR
38	Base fare per km	\$0.10		INR
39	(per mile)	\$0.16		INR
40	Market rate revenue factor	2.1		INR
	Percentage of revenue from passenger fares	60%		INR
40	O&M as % of revenue	20%	-1-1-1	
41	Percentage debt financed Interest rate for debt	70%	interest	
42			kg/liter	
43	kg CO2 emissions per liter of gasoline Monetary value of 1 hour personal time (USD)	\$0.38	kg/iitei	INR
	Est. roadway maintenance per year per km	\$100,000	7,200,000	
45 46	Area of one parking lot space		7,200,000 m ²	IINI
40	Commercial income of land (annual)		per m ²	INR
47	Distance from roadway that is convenient	0.25		IIVII
49	Stops per km		stops/km	
50	Boarding capacity per stop	360		
51	Solar panel area per meter of podway		m ²	
52	Cost to buy sustainable energy		per kWh	
57	Cost of sustainable energy storage		per kWh	
54	Capital cost to generate sustainable energy	\$1,000		
53	Global Horizontal Irradiance (GHI)		kWh/m²/day	
55	Storage per column		kWh	
56	Typical span	23		44
58	Energy storage capacity		days	
59	Area of parked pod	2.20		
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	Price on Carbon		/tCO2e	
66	Toll Share (% of revenue for use of rights-of-way)	5%		
	(

1	Name of region or project	Naya Raipur, Chhattis
2	Currency name	INR
3	Equal to US\$1	72
4	Energy in CAPEX or OPEX	CAPEX
5	Land area of region (sq. km)	237
6	Number of residents in region	200,000
7	% travel within region	95%
8	% of land area served by roads	48%
9	Coverage: % of pop. convenient (5 min walk) to a podway	51%
10	Annual median household income (US\$)	\$1,500
11	Convenient walk time to stop (min)	5
12	Triple-speed route length (km)	0
13	Water crossing route length (km)	0.0
14	Visitors per year	0
15	Average length of visit (days)	2
16	Solar production ratio	1.57
17	Regional Fare Factor	1.0
18	Price adjust (EPC costs & contingency)	30%
19	Triple-speed (km/h)	242
20	Daily Passengers Adjustment	100%
21	Number of Stops Adjustment	100%
22	Mode Share Adjustment	100%
23	Corporate Tax Rate	10%
24	Interest Rate on Debt	5.0%

		Pod	Car
25	Service life (years)	20	12
26	Full cost of vehicle per year	\$200	\$9,000
27	Public cost to maintain infrastructure per year per km	\$0	\$100,000
28	Energy consumption (MPGe)	3564	24
29	Energy consumption (liters/100km)	0.07	9.8
30	Energy consumption (Watt-hours/km)	9	1375
31	mass of CO2 per vehicle per km (kg)	0	0.09875
32	Vehicle mass (kg)	45	1950
33	Average speed of urban travel (km/h)	72	16
34	Typical travel time (in minutes) for 9 km trip	7	33
35	Fare/cost per km	\$0.10	\$0.62
36	Number of deaths per 100M passenger-km	0.00001	0.62
37	Number of injuries per 100M passenger-km	0.0006	62
38	Volume to park (cubic meters)	5.7	70.9

Toll Share for Rights-of-Way

Rights-of-Way owners' Toll Share is 5% of gross revenue

with a minimum payment based on the Footprint and the Transit X Commercial Rate (TXCR).

7 Toll Share Payment (inclusive of all fees and taxes)

	Estimated Annual Payment at target revenue	\$1,770,859 annually	\$9 per resident				
	with a minimum of	\$3,979 annually	286,516 INR				
0			0 INR				
1 (Other financial benefits to Owners	of Rights-of-way and/or Lo	ocal Government:				
2	Less road maintenance from lower VMT						
3	Public land made available from less parking and lanes						
4	Reduced emergency and police services for road-related incidents						
5	Less investment needed in road-base						

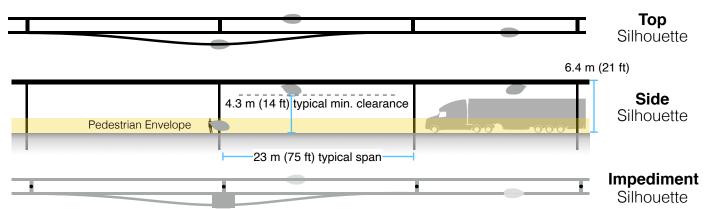
1 Minimum payment calculations

(charging stations, signals, BRT, etc)

2	Total commercial land (estimated)	11,376,000 m ²	acres
3	Total commercial gov't revenue (US\$)	\$341,280	24,572,160 INR
4	TXCR (Transit X Commercial Rate)	\$0.03 per m ² (estimated)	2.2 INR

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.

Toll Share Minimum Calculation



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

1	Footprint Calculations	Metric	Imperial
2	Guideway width	<u>0.35</u> m	
3	Guideway height	<u>0.65</u> m	
4	Post diameter	<u>0.4</u> m	
5	Post cross section	<u>0.13</u> m ²	
6	Stop landing area	<u>3.75</u> m ²	
7	width	<u>1.5</u> m	
8	length	<u>2.5</u> m	
9	Ramp length	<u>21</u> m	
10	Typical Span	<u>23</u> m	
11	Number of posts per unit length	43.5 poles per km	
12	Post height	<u>6</u> m	
13			
14	Single guideway	1172.2 m ²	
15	Area of Side Silhouette	754.3 m ²	
16	Area of Top Silhouette	363.2 m ²	
17	Impediment Area (adjusted)	54.6 m ²	
18			
19	Dual guideway	1522.2 m ²	
20	Area of Side Silhouette	754.3 m ²	
21	Area of Top Silhouette	713.2 m ²	
22	Impediment Area (adjusted)	54.6 m ²	
23			
24	Stop	86.3 m ²	
25	Area of Side Silhouette	27.3 m ²	
26	Area of Top Silhouette	21.5 m ²	
27	Impediment Area (adjusted)	37.5 m ²	
28	. , ,		
29	Stops with dedicated landing areas	4.0 stops per km	
30	% of dual guideway	100%	
31	70 Of dual guideway	10070	
32	Average area per unit length	1,867 m² per route-l	ĸm
33	Lorenza dina anti Espatan	10	
34	Impediment Factor	10	



Fair Fare Formula

Summary

Faster travel saves a household 295 hours per year.*

At 0.06INR per km, a typical commute on Transit X is 17% less than public transit

Trip Echiga	Trip I	Length
-------------	--------	--------

	All prices in INR	2 km	10 km	40 km
	Transit X	0.12 to 0.20 2 min., 3.6x faster	0.58 to 0.97 8 min., 3.6x faster	2.22 to 3.79 33 min., 3.4x faster
	Public transit average	0.66	1.04	1.53
səpou	Taxi	0.91 2 to 6 minutes	3.97 8 to 30 minutes	15.42 30 to 120 minutes
Common public modes	Uber/Lyft	0.69 2 to 6 minutes	2.85 8 to 30 minutes	10.96 30 to 120 minutes
non pı	Public Bus	0.53 3 to 12 minutes	0.53 15 to 60 minutes	0.81 60 to 240 minutes
Com	Train	0.79 2 to 12 minutes	0.93 8 to 60 minutes	1.46 30 to 240 minutes
Personal car		0.71 2 to 6 minutes	2.15 8 to 30 minutes	7.53 30 to 120 minutes

										Mo	ode shar	е
	Avg. Speed	Low Speed	High speed				Min Dist	Max Dist.	Time cost	6%	70%	24%
										Dis	stance (k	m)
Travel mode	km/h	km/h	km/h	Base	Includes km	Over per-km	km	km	per min	2	10	40
Taxi	30	20	80	0.53	1	0.26	0.5	100	0.23	5%	4%	1%
Uber/Lyft	30	20	80	0.42	1	0.21	0.5	100	0.12	10%	10%	2%
Public Bus	15	10	40	0.53	20	0.01	0.5	50	0	50%	50%	40%
Train	30	10	80	0.79	2	0.02	2	100	0	35%	36%	57%
Transit X	72	72	72	0	0	0.06	0.1	50	0	-	-	-
Personal car	30	20	80	0.35	0	0.18	0.1	400	0.01	-	-	-

^{*} All numbers on mode shares, speeds, and costs are estimates based on global averages.

Base fares are set for first 3 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. Market rate fares must account for less than half of all fares.

Fair Fare Formula

Fare rates are updated annually using this formula

	Name	Value	Units	Description of the value or model input	_
1	GlobalIncome	10,000	USD	Global median household income. Updated annually based on most recent standard published data.	
2	AllTravel	20,000	km	Travel distance per household per year on any mode for trips under 1600 km. A global constant	
3	PercentIncomeForTra nsport	25%		% of median household income for all transportation under 1600 km trips. A global constant.	
4	GlobalRate	0.13	USD/km	Global minimum rate: GlobalIncome * PercentIncomeForTransport / AllTravel	
5	IncomeFirst	<u>\$1,500</u>	USD	Median household income at first stop (per person per day). External input. Based on reliable public data source updated annually. Maximum is 8 times GlobalIncome	
6	IncomeDest	\$2,250	USD	Median household income at destination per trip. External input. Based on reliable public data updated annually. Maximum is 8 times GlobalIncome	
7	RegionalRate	0.02	USD/km	Regional rate based on median income: MedianIncomeFirst * PercentIncomeForTransport / AllTravel	
8	UnderIncomeRate	0.11	USD/km	Under global income adjustment: if (RegionalRate < GlobalRate, GlobalRate - RegionalRate, 0)	
9	NominalRate	0.13	USD/km	Nominal rate: RegionalRate + UnderIncomeRate	
10	RegionalFactor	1.00		Regional Fare Factor. Negotiated upfront to make network financially viable.	
11	AdjustedRate	0.13	USD/km	Regional adjusted rate: NominalRate * RegionalFactor	
12	Population	200,000		Population in region. Updated annually based on trusted public data source.	
13	UsageMaxDiscount	50%		Fare Discount when Transit X travel per household equals AllTravel. Global constant.	
14	ModeShare	<u>43%</u>		Percent of Total Travel Per Capita on Transit X podways. Based on target mode share for first 3 years, then adjusted based on actual travel. PassengerTravel / (Population x AllTravel)	<u>In INR</u>
15	BaseRate	0.10	USD/km	Base rate for single-passenger pod (without discounts) (1 - UsageMaxDiscount x min(1,ModeShare)) x AdjustedRate	7.05
16	SpecialRateFactor	2.20		Rate factor for water crossings or high-speed links. Global constant.	
17	SpecialBaseRate	0.22	USD/km	Base rate for high-speed travel or water crossings: BaseRate * SpecialRateFactor	15.51
18	DistanceDiscount	40%		Distance discount at max distance. Global constant.	
19	MaxDistanceDiscount	500	km	Max distance discount. Global constant.	
20	DistanceDiscountPer Km	0.000078	USD/km	Discount amount per km: BaseRate x DistanceDiscount / MaxDistanceDiscount	
21	SeniorDiscount	20%		Senior discount set according to local regulations	
22	StudentDiscount	20%		Student discount set according to local regulations	
23	DisabilityDiscount	20%		Disability discount set according to local regulations	
24	DiscountBaseRate	0.08	USD/km	Discounted base rate: BaseRate x (1 - SeniorDiscount)	5.64
25	SharedPodDiscount	20%		Discount for requesting a shared pod. 15% minimum and 30% maximum.	
	SharedPodRate		USD/km	•	5.64
26		0.08	USD/KIII	Rate for a shared pod: BaseRate x (1 - SharedPodDiscount)	5.04
27	SharedCompartment Discount	40%		Discount for requesting a shared compartment. 25% minimum and 40% maximum. At least 10 percentage points higher than SharedPodDiscount.	
28	SharedCompartment Rate	0.06	USD/km	Rate for shared compartment BaseRate x (1 - SharedCompartmentDiscount)	4.23
29	SingleOccupancyMax Distance	0.07	USD/km	Rate for 500 km in single-passenger pod.	
30	Senior + SharedCompartment Rate	0.03	USD/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%		% Higher fare rate if Destination has 50% higher median income than First (IncomeDest / IncomeFirst - 1) / 2	
32	DistanceBase	-	km	Passenger distance under base fare.	
33	PercentBase	<u>74%</u>		Percent of passenger distance under base fare. Audited value from operational data. DistanceBase / PassengerTravel	
34	AverageDiscount	27%		Average fare discount from Base Rate. Audited value from operational data. 1 - (BaseRevenue / (DistanceDase x BaseRate))	
35	MarketFactor	1.0		Market rate factor. Negotiated value for setting ratio of AverageDiscount	
36	MarketRateCap	27%		Cap on passenger travel distance at market rate: AverageDiscount x MarketFactor	

Jobs Report*

This project would create 44,000 new jobs in manufacturing, construction, and operations. About 2,400 existing transportation jobs would be impacted — of which 200 workers would need significant retraining. Improving the transportation infrastructure will boost the economy overall and lead to 88,700 new jobs. Lowering the cost of transportation and reducing travel times raises household income by 342%.

1	Annual median household income (US\$)	\$1,500	
2	CAPEX	•	
3	Average gross CAPEX salary (% of median HH)	125%	
4	Average gross CAPEX salary	\$1,875	
5	% of CAPEX as salary	15%	
6	Years of CAPEX	2	
7	# of CAPEX jobs	11,010	
8	% of jobs that are manufacturing vs. construction	75%	
9	Manufacturing jobs	8,260	
10	Construction jobs	2,750	
11	Supply chain jobs factor	3	
12	Jobs in supply chain	33,030	
13	Average gross OPEX salary (% of median HH)	115%	
14	Average gross OPEX salary	\$1,725	
15	% of OPEX as salary	30%	
16	Operations and Maintenance jobs	1,230	
17	Secondary-effect jobs factor	7%	
18	Secondary effect jobs	88,670	
19	Job transitioning and training		
20	Expected mode share at 10 years (from page 6, line 9)	43%	
21	% of population with a full-time job	60%	120,000
22	jobs in transportation	10%	12,000
23	jobs impacted with this proposed network	20%	2,400
24	jobs requiring significant retraining	20%	480
25	Jobs needing retraining with this proposed network (over 10 years)	0.2%	210
26	Training cost per person as % of salary (from line 13)	100%	\$1,725
27	Number of years that training is divided across	10	
28	Ratio (as %) of training costs vs. gov't revenue from Transit X project	2%	\$36,225

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