



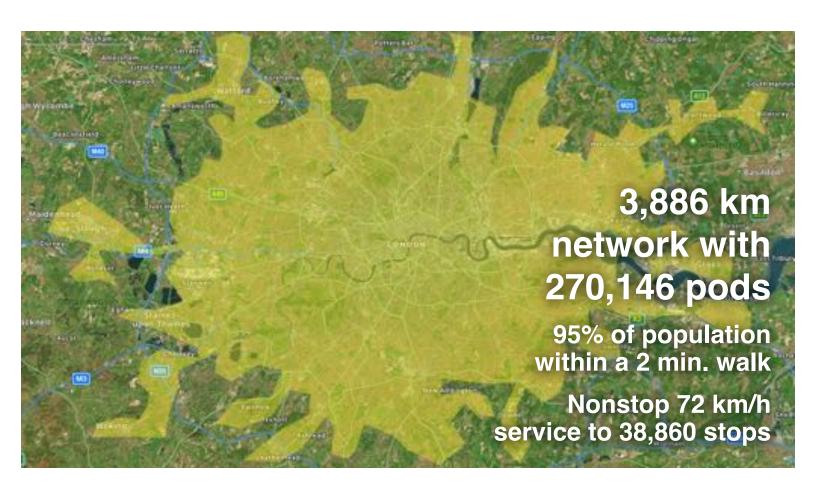
Transit X presents a preliminary proposal for privately-financed, solar-powered public transit micro-rail network — a fleet of fully-autonomous, shared, electric, vehicles (pods) for passengers and freight on a local and regional podway

# London, UK

This proposal is downloadable at <a href="mailto:transitx.com/proposals/Transitx">transitx.com/proposals/Transitx</a> for London, UK.pdf

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

A 24-page companion Transit X Handbook is available at transitx.com/transitxhandbook.pdf



## **Proposal Overview**



Transit X proposes to build and operate a green, privately-financed microtransit podway to carry passengers and freight for London, UK 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 (<u>transitx.com/</u> <u>transitxhandbook.pdf</u>) answers many questions about our service, the company, our technology, and the way we address:



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

## Congestion, parking, pollution, and safety

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

#### No public funding

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

#### Proven technology

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

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

## **Service Quality**

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

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

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

#### Sustainable

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

#### **More Transit & Fewer Cars**

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

### **De-risking Projects**

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

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

### **Jobs and Workforce Development**

Many jobs will be created to build a new transportation infrastructure, 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\$1,254 million

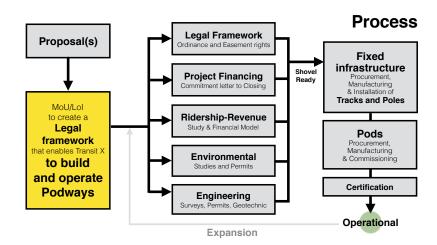
per year average over the first 10 years. For specifics, please see the "Taxes and Fees" section of this proposal. These fees and taxes paid by Transit X enables lower taxes or more spending on public services.

## **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 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.

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 <a href="transitx.com/process/mou.html">transitx.com/process/mou.html</a>) 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 (<u>transitx.com/process/mou.html</u>)
- 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 London through better transportation.

Sincerely,

Mike Stanley CEO, Transit X

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



	TI di BioX.			
1	Transit X network length	3,886	km	
2	People (resident-equivalent) in region	8,787,892	resident-equivalent p	opulation
3	Route density ratio (route length to service area)	2.91		
4	Number of stops	38,860		
5	Triple-speed route length	0	km	
6	Water crossing route length	0	km	
7	Cost of fixed infrastructure	\$14,094,114,888		
8	per person	\$1,604		
9	Mode share of travel on Transit X (28% after first year)	84%	after 10 years	
10	Distance traveled on Transit X, per year	66,734,790,923	km	
11	per day	182,835,044	km	
12	Daily potential energy generation with standard panels on tracks	29,844	MWh	
13	Sustainable energy use per day	1,153	MWh	4% of max capacity
14	Energy storage capital cost for 1 day(s) of supply at \$100 per kWh	\$115,262,439		
15	Size (rated power) of solar installation	267,967	KW	
16	Cost to generate sustainable energy (at \$1,000 per kW)	\$267,966,816		
17	Cost of buying sustainable energy at \$0.15 per kWh	\$172,894		8% of OPEX
18	Daily passengers riding Transit X	7,414,977	customers	84% of the pop.
19	Distance per passenger per day	25	km	
20	Average distance per trip (assuming 3 trips per day)	8	km	
21	Single passenger fare for shared 8 km trip	\$1.79	1.41	GBP
22	Passenger distance traveled during peak hour	36,567,009	km	
23	Breakeven		customers per day	
24	Dioanoron	1,010,001	(16% of people conv	enient to Transit X)
			( FF	,
25	Number of pade for peak demand	270 146		
25	Number of pods for peak demand		pods at 84% me	
26	Number of customers per pod	27.4	and 33 people per	
26 27	Number of customers per pod Distance per pod per year	27.4 168,192	and 33 people per km	pod
26 27 28	Number of customers per pod Distance per pod per year Two-layer pod garage area (8% of route with side–parking)	27.4 168,192 297,161	and 33 people per km m <sup>2</sup>	pod 0.2% of car parking
26 27 28 29	Number of customers per pod  Distance per pod per year  Two-layer pod garage area (8% of route with side–parking)  Cost of pods	27.4 168,192 297,161 \$1,755,949,000	and 33 people per km m <sup>2</sup> is \$154 per persor	pod 0.2% of car parking
26 27 28 29 30	Number of customers per pod  Distance per pod per year  Two-layer pod garage area (8% of route with side–parking)  Cost of pods  Capital cost of energy generation and storage	27.4 168,192 297,161 \$1,755,949,000	and 33 people per km m <sup>2</sup>	pod 0.2% of car parking
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26 27 28 29 30	Number of customers per pod Distance per pod per year Two-layer pod garage area (8% of route with side–parking) Cost of pods Capital cost of energy generation and storage  Project Finances	27.4 168,192 297,161 \$1,755,949,000 \$498,198,032	and 33 people per km m <sup>2</sup> is \$154 per person is \$57 per person	pod 0.2% of car parking
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26 27 28 29 30 31 32 33 34	Number of customers per pod Distance per pod per year Two-layer pod garage area (8% of route with side–parking) Cost of pods Capital cost of energy generation and storage  Project Finances  Total Project Cost (privately financed) Project cost Equity	27.4 168,192 297,161 \$1,755,949,000 \$498,198,032 \$16,348,261,920 \$4,207,085 \$4,904,478,576	and 33 people per km m² is \$154 per persor is \$57 per person 12,915,126,917 per km 3,874,538,075	pod 0.2% of car parking  GBP
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26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	Number of customers per pod Distance per pod per year Two-layer pod garage area (8% of route with side–parking) Cost of pods Capital cost of energy generation and storage  Project Finances  Total Project Cost (privately financed) Project cost Equity Private debt financing	27.4 168,192 297,161 \$1,755,949,000 \$498,198,032 \$16,348,261,920 \$4,207,085 \$4,904,478,576 \$11,443,783,344	and 33 people per km m <sup>2</sup> is \$154 per person is \$57 per person 12,915,126,917 per km 3,874,538,075 9,040,588,842 1,356,088,326	o.2% of car parking GBP GBP GBP
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26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	Number of customers per pod Distance per pod per year Two-layer pod garage area (8% of route with side–parking) Cost of pods Capital cost of energy generation and storage  Project Finances  Total Project Cost (privately financed) Project cost Equity Private debt financing  Debt service (per year)  Yearly fees and taxes (US\$213 per capita)	27.4 168,192 297,161 \$1,755,949,000 \$498,198,032 \$16,348,261,920 \$4,207,085 \$4,904,478,576 \$11,443,783,344 \$1,716,567,502	and 33 people per km m² is \$154 per persor is \$57 per person 12,915,126,917 per km 3,874,538,075 9,040,588,842 1,356,088,326 1,479,588,701	O.2% of car parking  GBP  GBP  GBP  GBP  GBP  GBP
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	Number of customers per pod Distance per pod per year Two-layer pod garage area (8% of route with side–parking) Cost of pods Capital cost of energy generation and storage  Project Finances  Total Project Cost (privately financed) Project cost Equity Private debt financing  Debt service (per year) Yearly fees and taxes (US\$213 per capita)  OPEX + Debt service = Tex + Fees	27.4 168,192 297,161 \$1,755,949,000 \$498,198,032 \$16,348,261,920 \$4,207,085 \$4,904,478,576 \$11,443,783,344 \$1,716,567,502 \$1,872,897,089	and 33 people per km m² is \$154 per person is \$57 per person 12,915,126,917 per km 3,874,538,075 9,040,588,842 1,356,088,326 1,479,588,701	O.2% of car parking  GBP  GBP  GBP  GBP  GBP  GBP
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26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	Number of customers per pod Distance per pod per year Two-layer pod garage area (8% of route with side–parking) Cost of pods Capital cost of energy generation and storage  Project Finances  Total Project Cost (privately financed) Project cost Equity Private debt financing  Debt service (per year) Yearly fees and taxes (US\$213 per capita)  Project costs — per person Number of motor vehicles displaced Yearly cost of cars displaced — per person Operating costs per passenger-km Full costs per passenger-km	27.4 168,192 297,161 \$1,755,949,000 \$498,198,032 \$16,348,261,920 \$4,207,085 \$4,904,478,576 \$11,443,783,344 \$1,716,567,502 \$1,872,897,089 \$1,860 6,673,479 \$6,835 \$0.01 \$0.07	and 33 people per km m² is \$154 per person is \$57 per person 12,915,126,917 per km 3,874,538,075 9,040,588,842 1,356,088,326 1,479,588,701 1,470 motor vehicles 5,399 km	general pod  0.2% of car parking  GBP  GBP  GBP  GBP  GBP  GBP



## Impact of proposed network

1	Reduction in GHG emissions (metric tons CO2-eq)	6,590,061 MTCO2-eq annually
2	Estimated cost to maintain public roadways	\$688,415,694 annually
3	Reduced waste products	1,069,425 metric tons annually
4	Travel time saved (non-stop travel and congestion)	438 hrs/person annually
5	Cost savings from reduced car ownership	\$2,313 per person annually
6	Increase in household income (from time savings and car costs)	16%
7	Reported injuries avoided	41,376 annually
8	Lives saved (from safety)	414 annually
9	Land freed from parking (37,927 acres)	153,490,019 m <sup>2</sup>
12	Temperature reduction (from heat island effect & GHG reductions)	0.5 to 2 °C
11	Health care savings (from pollution, injuries)	High

## **Model Inputs**

Ratio of road length to track length   Walking speed   4.9 km/h		Model Inputs										
Walking speed	15	Ratio of road length to track length	4									
Fixed cost per km. Solar+storage not included.   \$2,790,000   \$2,204,100   \$C   \$2,700,000   \$3,700,000   \$				km/h								
Fixed cost per km. Solar+storage not included.   Water crossings: additional cost per km   Triple-speed: additional cost per km   Si,370,000   Si,5580,000												
Water crossing: additional cost per km   Sp,580,000   S		<del>_</del>			GBP							
20				2,20 .,	GD.							
Rate factor for water crossings or high-speed links.  Average distance traveled per person per year per control of the control												
Average distance traveled per person per year (for trips under 1600 km  Average distance per day per person  Mode share % of people convenient to Transit X  Percentage of daily demand during peak hour  Maximum capacity per track  Average dwell time during peak hour  % of pods travelling on route with highest demand  Average speed of pod  Average passengers per pod during peak hours  Average passengers per pod during peak hours  Average passengers per pod during peak hours  Average giscount per passenger  Average discount per passenger  Maximum passengers per pod  Empty pods: Percentage non-revenue  Ex-Factory cost per pod  Worldwide Median Income per Household (US\$)  Average number of residents per household  Base fare per km  (per mile)  O&M as % of project cost  Percentage debt financed  Length of loan/debt Interest rate for debt  kg CO2 emissions per liter of gasoline  Area of one parking lot space  Commercial income of land (annual)  Distance from roadway that is convenient  Slops per km  Area of one parking lot space  Cost of sustainable energy and storage  Global Horizontal Irradiance (GHI)  Cost to generate sustainable energy  Storage per column  Typical span  Energy storage capacity  Area of parked pod  Distance discount at max distance  Max usage discount at 10,000 km  10,000  27 km  855,380 pph  10 seconds  118  856,380 pph  10 seconds  18  856,380 pph  10,00  3 per day  10,00  3 per day  10,00  3 per day  10,00  3 per day  10,00  7,900 GBP  55,000  3,950 GBP  50,000  3,950 GBP			. , ,									
Mode share % of people convenient to Transit X Percentage of daily demand during peak hour Maximum capacity per track Average dwell time during peak hour % of pods traveling on route with highest demand Average speed of pod Average passengers per pod during peak hour Average passengers per pod during peak hours Average passengers per pod during peak hours Average passengers per pod during peak hours Average discount per passenger Average discount per passenger Bernty pods: Percentage non-revenue Empty pods: Percentage non-revenue Ex-Factory cost per pod Worldwide Median Income per Household (IUS\$) Average number of residents per household Base fare per km (per mile) Day ars Average number of residents per household Day ars Average number of residents per pod Average number of residents per pod Bay assengers  Day passengers  Day passengers Day km/h 45 mph Day passengers Day apassengers Day apassenger		Average distance traveled per person per year		km								
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Percentage of daily demand during peak hour Maximum capacity per track		• • • • • • • • • • • • • • • • • • • •										
Maximum capacity per track   Average dwell time during peak hour   10 seconds		·		at o mini main.								
27         Average dwell time during peak hour         10         seconds           28         % of pods traveling on route with highest demand         18%           30         Average # of trips for a daily customer         3         per day           31         Average passengers per pod during peak hours         2.4         passengers           32         Average passengers per pod         1.5         passengers           34         Empty pods: Percentage non-revenue         25%         Ex-Factory cost per pod         5           35         Empty pods: Percentage non-revenue         25%         Ex-Factory cost per pod         5           36         Worldwide Median Income per Household (US\$)         10,000         7,900         GBP           36         Worldwide Median Income per Household (US\$)         10,000         7,900         GBP           37         Average number of residents per household (Per mile)         2.3         GBP           40         O&M as % of project cost         5%         0.5         GBP           41         Percentage debt financed         70%         10         years         10         years         10         years         10         years         10         years         10         GBP         10         year		· , , , , , , , , , , , , , , , , , , ,		pph								
% of pods traveling on route with highest demand Average speed of pod Average # of trips for a daily customer Average passengers per pod during peak hours Average passengers per pod Average discount per passenger Maximum passengers per pod Empty pods: Percentage non-revenue Ex-Factory cost per pod Worldwide Median Income per Household (US\$) Average number of residents per household Base fare per km (per mile) Co&M as % of project cost Percentage debt financed Percentage debt financed Length of loan/debt Interest rate for debt kg CO2 emissions per liter of gasoline Area of one parking lot space Commercial income of land (annual) Distance from roadway that is convenient Stops per km Cost to generate sustainable energy Storage per column Typical span Energy storage cost Energy storage cost Shared Pod Compartment Discount Average non-revenue Ex-Factory cost per pod 5 passengers 19% bassengers 2.4 passengers 3 per day 2.4 passengers 3 per day 4.5 km/h 45 mph 46 mph 46 massengers per pod 1.5 passengers 25% Ex-Factory cost per pod 25% Essengers 26BP 2.37  40 years 41 Percentage debt financed 40 years 41 Percentage debt fi												
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Average # of trips for a daily customer Average passengers per pod during peak hours Average passengers per pod during peak hours Average discount per passenger Average discount per passenger Bempty pods: Percentage non-revenue Ex-Factory cost per pod Worldwide Median Income per Household (USS) Average number of residents per household Base fare per km (per mile) Co&M as % of project cost Percentage debt financed Length of loan/debt Interest rate for debt Kg CO2 emissions per liter of gasoline Area of one parking lot space Commercial income of land (annual) Distance from roadway that is convenient Solar panel area per meter of track Cost to generate sustainable energy Global Horizontal Irradiance (GHI) Cost to generate sustainable energy Area of parked pod Distance discount at max distance Max usage discount at 10,000 km per capita Shared Pod Compartment Discount  Average passengers 2.4 passengers 2.4 passengers 2.4 passengers 1.5 passengers 1.5 passengers 199%  passengers 2.4 passengers 2.4 passengers 2.5 passengers 199%  passengers 199%  passengers 2.5 passengers 25%  passengers 25%  passengers 25%  passengers 25%  passengers 25%  passengers 26,000 3,950 GBP 30,000 7,900 GBP 2.3 GBP 30,000 3,950 3,950 3,950 3,950 3,950 3,950 3,950 3,950 3,950 3,950 3,950 3,950 3,950 3,950 3,9		, ,		km/h	45 mnh							
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Average passengers per pod Average discount per passenger  Average discount per passenger  Maximum passengers per pod  Empty pods: Percentage non-revenue  Ex-Factory cost per pod  Ex-Factory cost per pod  Worldwide Median Income per Household (US\$)  Average number of residents per household  Base fare per km  passengers  Average number of residents per household  Base fare per km  passengers  Average number of residents per household  Base fare per km  passengers  Base fare per km  passengers  5,000  3,950 GBP  10,000  7,900 GBP  2.3 GBP  RPP  Average number of residents per household  2.3 GBP  RPP  Percentage debt financed  Length of loan/debt  Length of loan/debt  Interest rate for debt  kg CO2 emissions per liter of gasoline  Length of loan/debt  Interest rate for debt  kg CO2 emissions per liter of gasoline  Read on parking lot space  Area of one parking lot space  Commercial income of land (annual)  Distance from roadway that is convenient  Stops per km  Distance from roadway that is convenient  Stops per km  Cost of sustainable energy and storage  Global Horizontal Irradiance (GHI)  Cost to generate sustainable energy  Storage per column  Typical span  Energy storage coast  Energy storage coast  Energy storage capacity  Area of parked pod  Distance discount at max distance  Max distance discount  Max usage discount at 10,000 km per capita  Shared Pod Discount  Apace  10,00  1,900  3,950  BBP  10,000  7,900  3,950  GBP  10,000  7,900  3,950  GBP  10,000  7,900  GBP  10,000  1,900  3,950  GBP  10,000  1,900  3,950  3,950  GBP  10,000  1												
Average discount per passenger Maximum passengers per pod Empty pods: Percentage non-revenue Ex-Factory cost per pod Ex-Factory cost per pod Spassengers Spassengers Ex-Factory cost per pod Spassengers Spasson Spassongers S		• • • • • • • • • • • • • • • • • • • •										
Sample   S	02	0, 0,		passengers								
Empty pods: Percentage non-revenue   25%	22			naccondore								
Ex-Factory cost per pod   \$5,000   3,950 GBP		, , ,		passerigers								
Worldwide Median Income per Household (US\$) Average number of residents per household Base fare per km (per mile) O&M as % of project cost Percentage debt financed Length of loan/debt Interest rate for debt Kg CO2 emissions per liter of gasoline Monetary value of 1 hour personal time (USD) Eat. roadway maintenance per year per km Commercial income of land (annual) Distance from roadway that is convenient Stops per km Cost of sustainable energy and storage Global Horizontal Irradiance (GHI) Cost to generate sustainable energy Area of parked pod Distance discount at max distance Max usage discount at 10,000 km per capita Shared Pod Discount Wood AgBP  10,000 7,900 GBP 2.3 GBP 0.36 0.3 GBP 0.58 0.5 GBP 0.59 0.5 GBP 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50				2.050	CPP							
Average number of residents per household Base fare per km (per mile) (per mi												
38         Base fare per km (per mile)         \$0.36         0.3 GBP           39         (per mile)         \$0.58         0.5 GBP           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)         \$12.50         10 GBP           46         Eat. roadway maintenance per year per km         \$51,000         40,290 GBP           47         Area of one parking lot space         23 m²           48         Commercial income of land (annual)         \$1.00 per m² GBP           49         Distance from roadway that is convenient         0.10 km           50         Solar panel area per meter of track         2.0           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/m²/day           54         Cost to generate sustainable energy         \$1,000 per kW           58				7,900								
Okm as % of project cost   S%				0.2								
40 O&M as % of project cost 41 Percentage debt financed 42 Length of loan/debt 43 Interest rate for debt 44 kg CO2 emissions per liter of gasoline 45 Monetary value of 1 hour personal time (USD) 46 Eat. roadway maintenance per year per km 47 Area of one parking lot space 48 Commercial income of land (annual) 49 Distance from roadway that is convenient 50 Solar panel area per meter of track 51 Solar panel area per meter of track 52 Cost of sustainable energy and storage 53 Global Horizontal Irradiance (GHI) 54 Cost to generate sustainable energy 55 Storage per column 56 Typical span 57 Energy storage cost 58 Energy storage cost 59 Area of parked pod 60 Distance discount at max distance 61 Max usage discount at 10,000 km per capita 62 Max usage discount at 10,000 km per capita 63 Shared Pod Discount 64 Shared Pod Compartment Discount 65 Toge Interest Shared Pod Compartment Discount 66 Shared Pod Compartment Discount 67 Shared Pod Compartment Discount 68 Shared Pod Compartment Discount 69 Cost to Genesate Sustain the project Cost Cost Cost Cost Cost Cost Cost Cos		•										
Percentage debt financed   10   years		" ,		0.5	СБР							
Length of loan/debt Interest rate for debt kg CO2 emissions per liter of gasoline Kg CO2 emissions per liter of gasoline Monetary value of 1 hour personal time (USD) Eat. roadway maintenance per year per km Area of one parking lot space Commercial income of land (annual) Distance from roadway that is convenient Stops per km Cost of sustainable energy and storage Global Horizontal Irradiance (GHI) Gost of generate sustainable energy Storage per column Typical span Finergy storage cost Energy storage capacity Finergy storage capacity Max distance discount Max distance discount Max usage discount at 10,000 km per capita Shared Pod Discount Monetary value 5% Storage per liter of gasoline 2.37  10 GBP  11.00 per m² GBP  10.0 ber m² COSP  Wh  10.0  Stops per km 10.0  Stops per kW  10.0  Stops per kW  10.0  Stops per kWh  3.8 kWh/m²/day  \$1,000 per kW  40 kWh  10 days  10 days  11 days  11 days  12 days  12 days  13 days  14 days  15 days  15 days  15 days  16 Max usage discount at 10,000 km per capita 16 Shared Pod Discount 17 Shared Pod Discount 18 Shared Pod Compartment Discount 19 Shared Pod Compartment Discount 10 Shared Pod Compartment Discount 10 Shared Pod Compartment Discount 10 Shared Pod Discount 10 Shared Pod Discount 10 Spans 10												
Interest rate for debt   5%		•		vooro								
44         kg CO2 emissions per liter of gasoline         2.37           45         Monetary value of 1 hour personal time (USD)         \$12.50         10 GBP           46         Eat. roadway maintenance per year per km         \$51,000         40,290 GBP           47         Area of one parking lot space         23 m²           48         Commercial income of land (annual)         \$1.00 per m²         GBP           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/m²/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 m²           60         Distance discount at max distance         40%           61         Max usage disco		· ·		years								
Monetary value of 1 hour personal time (USD) \$12.50 10 GBP  Eat. roadway maintenance per year per km Area of one parking lot space Commercial income of land (annual) \$1.00 per m² GBP  Distance from roadway that is convenient Stops per km Stops per km 10.0  Cost of sustainable energy and storage Global Horizontal Irradiance (GHI) Gost to generate sustainable energy Storage per column Typical span Finergy storage cost Energy storage cost Energy storage capacity Area of parked pod Distance discount at max distance Max usage discount at 10,000 km per capita Shared Pod Discount Max distance doscount Stops per km 10.0  2.0  2.0  3.8 kWh/m²/day  \$1,000 per kW 40 kWh 23 m cols/km: 44  44  44  45  46  Max usage discount at max distance Max distance discount Max usage discount at 10,000 km per capita Shared Pod Discount More d												
46 Eat. roadway maintenance per year per km 47 Area of one parking lot space 48 Commercial income of land (annual) 49 Distance from roadway that is convenient 50 Solar panel area per meter of track 51 Solar panel area per meter of track 52 Cost of sustainable energy and storage 53 Global Horizontal Irradiance (GHI) 54 Cost to generate sustainable energy 55 Storage per column 56 Typical span 57 Energy storage cost 58 Energy storage cost 59 Area of parked pod 60 Distance discount at max distance 61 Max usage discount at 10,000 km per capita 63 Shared Pod Discount 64 Shared Pod Compartment Discount 65 Omer m² GBP 66 Distance discount at 0.10 km 67 Distance discount at 0.10 km 68 Max usage discount at 10,000 km per capita 69 Shared Pod Compartment Discount 60 Shared Pod Compartment Discount 60 Shared Pod Compartment Discount 61 Area of parked pod 62 Shared Pod Compartment Discount 63 Shared Pod Compartment Discount 64 Omer m² GBP 65 Distance discount disco				10	CPP							
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48 Commercial income of land (annual) \$1.00 per m² GBP  49 Distance from roadway that is convenient 50 Stops per km 51 Solar panel area per meter of track 52 Cost of sustainable energy and storage 53 Global Horizontal Irradiance (GHI) 54 Cost to generate sustainable energy 55 Storage per column 56 Typical span 57 Energy storage cost 58 Energy storage cost 59 Area of parked pod 60 Distance discount at max distance 61 Max usage discount at 10,000 km per capita 63 Shared Pod Discount 64 Shared Pod Compartment Discount 65 Distance discount 66 Shared Pod Compartment Discount 67 Commercial income of land (annual) 58 1.00 per m² 68 Wm 69 N.15 per kWh 69 Storage per column 69 AWh (kWh 69 Wh 69 W		, , , ,			СБР							
Distance from roadway that is convenient Stops per km Stops per km 10.0  Sloar panel area per meter of track Cost of sustainable energy and storage Global Horizontal Irradiance (GHI) Storage per column Storage per column Fig. 2					CPD							
Stops per km  Solar panel area per meter of track Cost of sustainable energy and storage Global Horizontal Irradiance (GHI) Cost to generate sustainable energy Storage per column Cost wWh Cost to generate sustainable energy Storage per column Cost wWh Cost to generate sustainable energy Cost to generate sustainable energy Storage per column Cost wWh Cost wWh Cost Renergy storage cost Cost of sustainable energy Storage per column Cost wWh Cost WWh Cost Renergy storage cost Cost of sustainable energy		* *			GDF							
Solar panel area per meter of track Cost of sustainable energy and storage Global Horizontal Irradiance (GHI) Cost to generate sustainable energy Storage per column Typical span Fig. Energy storage cost Energy storage capacity Area of parked pod Distance discount at max distance Max usage discount at 10,000 km per capita Max usage discount at 10,000 km per capita Shared Pod Discount Solar per kWh Area of parked pod Cost m² Cost to generate sustainable energy Storage per column 40 kWh Cost/km: 44 Shared Pod Compartment Discount Cost/km: 44  Solar per kWh Cost/km: 44  Solor per kWh C				KIII								
Cost of sustainable energy and storage Global Horizontal Irradiance (GHI) Cost to generate sustainable energy Storage per column Typical span Fig. Energy storage cost Energy storage capacity Area of parked pod Distance discount at max distance Max usage discount at 10,000 km per capita Max usage discount at 10,000 km per capita Shared Pod Discount Storage span with the storage capacity Area of parked pod Cost m²  Max usage discount at 10,000 km per capita Shared Pod Discount Storage span with the storage capacity Area of parked pod Cost m²  Max usage discount at 10,000 km per capita Shared Pod Discount Storage per kWh Wh Cost/km: 44  Storage per column At Wh  Area of parked pod Cost m²  Max usage discount at 10,000 km per capita Shared Pod Discount Cost my Cost who C		• •										
Global Horizontal Irradiance (GHI)  Cost to generate sustainable energy Storage per column Storage per column Typical span		·		nor kMh								
Cost to generate sustainable energy Storage per column Typical span Ty				•								
Storage per column Typical span Storage cost Storage capacity St		· · · · · · · · · · · · · · · · · · ·		•								
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 m²  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%		•										
Energy storage cost \$100 per kWh Energy storage capacity 1 days  Area of parked pod 2.20 m²  Distance discount at max distance 40%  Max distance discount 500 km  Max usage discount at 10,000 km per capita 50% Shared Pod Discount 20%  Shared Pod Compartment Discount 40%		_ ·			44							
Energy storage capacity  Area of parked pod  Distance discount at max distance  Max distance discount  Max distance discount  Max usage discount at 10,000 km per capita  Max usage discount at 10,000 km per capita  Shared Pod Discount  Shared Pod Compartment Discount  Shared Pod Compartment Discount		* * * * * * * * * * * * * * * * * * * *			44							
Area of parked pod 2.20 m²  Distance discount at max distance 40%  Max distance discount 500 km  Max usage discount at 10,000 km per capita 50%  Shared Pod Discount 20%  Shared Pod Compartment Discount 40%		· · · · · · · · · · · · · · · · · · ·										
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%				•								
Max distance discount 500 km Max usage discount at 10,000 km per capita 50% Shared Pod Discount 20% Shared Pod Compartment Discount 40%				1115								
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Shared Pod Discount 20% Shared Pod Compartment Discount 40%				NIII								
Shared Pod Compartment Discount 40%		• • • • •										
Marile also are the floor of the control of the con	63											
Mode share starting discount 67%		•										
	65	Mode snare starting discount	6/%									

## **Model Inputs (continued)**

67	Name of region or project	London, UK
68	Currency name	GBP
69	Equal to US\$1	0.79
70	Sustainable energy/electricity generation & storage as	CAPEX
71	Land area of region (sq. km)	1,572
72	Number of residents in region	8,787,892
73	% travel within region	90%
74	% of land area served by roads	85%
75	Coverage: % of pop. convenient (2 min walk) to Transit X	95%
76	Annual median household income (US\$)	\$50,000
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 8 km trip	7	31
96	Fare/cost per km	\$0.36	\$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).

## **Government Fees and Tax rate**

(for calculating minimums)

2	Total commercial land (estimated)	133,620,000 m <sup>2</sup>	acres
3	Total commercial gov't revenue (US\$)	\$133,620,000	105,559,800 GBP
4	TXCR (Transit X Commercial Rate)	\$1.00 per m <sup>2</sup>	0.8 GBP
5	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.		

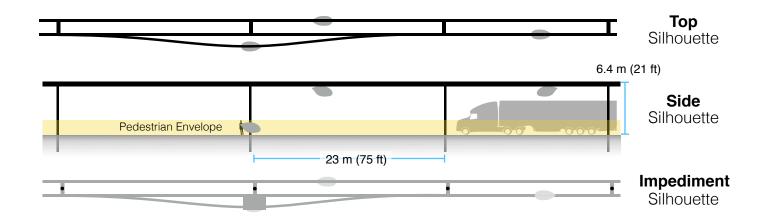
6

## Private Easement Fees

8	4% of gross revenue	<b>450.05</b>	per route- neter	
9	Minimum per year	01.03	per route- neter	
10	Government Fees a	nd Taxes		
11	% of route on government easements	98%		
12	5% on government easements	\$1,835,439,148	1,449,996,927 GBP	
13	1% on private easements	\$7,491,588		
14	Total gov't fees and taxes	<b>\$1,842,930,736</b> p	per year 1,455,915,281 GBP	
16	per resident	\$210	166 GBP	
15	with a minimum of	<b>\$6,558,555</b> p	per year 5,181,258 GBP	

## 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 <sup>2</sup>	
6	Stop landing area	2	m <sup>2</sup>	
7	width	<u>2</u>	m	
8	length	1	m	
9	Ramp length	21		
10	Pole span	<u>23</u>		
11	Number of poles per unit length	<u>43.5</u>	poles per km	
12	Pole height	<u>6</u>	m	
13				
14	Single track	1142.1	m <sup>2</sup>	
15	Area of Side Silhouette	688.3	$m^2$	
16	Area of Top Silhouette	423.1	m <sup>2</sup>	
17	Impediment Area (adjusted)	30.7	m <sup>2</sup>	
18				
19	Dual track	1552.1	m <sup>2</sup>	
20	Area of Side Silhouette	688.3		
21	Area of Top Silhouette	833.1		
22	Impediment Area (adjusted)	30.7	m <sup>2</sup>	
23	, , ,			
24	Stop	67.8	m <sup>2</sup>	
25	Area of Side Silhouette	25.6		
26	Area of Top Silhouette	22.2		
27	Impediment Area (adjusted)	20.0	m²	
28				
29	Stops with dedicated landing areas	2	stops per km	
30	% of dual track	100%	ctopo por tun	
31		.00,		
32	Average area per unit length	1,688	m² 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		
	1	. •		



## **Fair Fare Formula**

## Summary

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

At 0.17 GBP per km, a typical commute on Transit X is 17% less than public transit and 74% less than a Taxi.\*

								_	Trip	) Le	ng	th	
All	prices	in GBI	•		2 k	m			1	0 ŀ	(m		40 km
Transit X				<b>0.34</b> to 0.57 2 min., 3.6x faster			<b>1.70 to 2.84</b> 8 min., 3.6x faster				ster	6.52 to 11.10 33 min., 3.4x faster	
Pı	ublic to avera		ì		1.9	92			3	<b>3.</b> C	)6		4.49
səpou	Ta	axi		2	<b>2.6</b> to 6 m	<b>57</b> ninutes	3			<b>11.6</b> 30 m		es	<b>45.17</b> 30 to 120 minutes
Common public modes	Uber/Lyft			<b>2.03</b> 2 to 6 minutes			<b>8.36</b> 8 to 30 minutes				es	<b>32.11</b> 30 to 120 minutes	
mon p	Publi	c Bus	;	3 t	<b>1.5</b> to 12 r	55 minute:	S		15 to	<b>1.5</b> 60 r		tes	<b>2.37</b> 60 to 240 minutes
Com	Tr	ain ———		2 t	<b>2.3</b> to 12 r	32 minute:	S		8 to	<b>2.7</b> 60 m	_	es	<b>4.28</b> 30 to 240 minutes
Р	ersona	al car		2 t	<b>2.2</b> o 6 m	<b>27</b> ninute	es	{	3 to 3	<b>7.2</b> 30 m		tes	<b>25.85</b> 30 to 120 minutes
Travel mo	·	eed Speed	High speed km/h	Base	Includ es km	Over	Dist E	Max Dist. km	Time cost per min		share 70%	-	* All numbers on mode shares, speeds, and cost are rough estimates
Taxi	3	0 20	80	1.55	1		0.5 1		0.69	5%		1%	
Uber/Lyf	t 3	0 20	80	1.24	1	0.62	0.5 1	00	0.34	10%	10%	2%	

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.

0.04 0.5 50

0.05 2 100

0.52 0.1 400

0.17 0.1

0

0

0.21

50% 50% 40%

35% 36% 57%

15

30

72

30

10

10

72

20

40

80

72

80

1.55

2.32

1.03

0

Public Bus

Transit X

Personal car

Train



## **Fair Fare Formula**

## Fare rates are updated annually using this formula

	Formula Name	Value	Units	Description of the value or model input
1	GlobalIncome	7,900	GBP	Global median household income. Updated annually based on most recent
2	AllTravel	23,000	km	standard published data.  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	GBP/km	Global rate: GlobalIncome * PercentIncomeForTransport / AllTravel
5	IncomeFirst	\$39,500	GBP	Median household income at first stop (per person per day). External input. Based on reliable public data source updated annually.
6	IncomeDest	\$59,250	GBP	Median household income at destination per trip. External input. Based on reliable public data updated annually.
7	RegionalRate	0.34	GBP/km	Regional rate based on median income:  MedianIncomeFirst * PercentIncomeForTransport / AllTravel
8	UnderIncomeRate	0.00	GBP/km	Under global income adjustment: if (RegionalRate < GlobalRate, GlobalRate - RegionalRate, 0)
9	NominalRate	0.34	GBP/km	Nominal rate: RegionalRate + UnderIncomeRate
10	RegionalFactor	1.00	CDD/lem	Regional Fare Factor. Negotiated upfront to make network financially viable.
11	AdjustedRate Population	0.34	GBP/km	Regional adjusted rate: NominalRate * RegionalFactor
13	Population	8,787,892		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	66,734,790,923	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	33%		Percent of Total Travel Per Capita on Transit X:  PassengerTravel / (Population x AllTravel)  PassengerTravel for single passenger and (without discounts)
16	BaseRate	0.29	GBP/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	0.63	GBP/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	0.000229	GBP/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	0.23	GBP/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	0.23	GBP/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	0.17	GBP/km	Rate for shared compartment  BaseRate x (1 - SharedCompartmentDiscount)
29	SingleOccupancyMaxDistance	0.20	GBP/km	Rate for 500 km in single–passenger pod.
30	Senior + SharedCompartmentRate	0.08	GBP/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	49,383,745,283	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	11,484,517,727	GBP	Annual revenue from all travel under base rate. Audited value from operational data.
35	AverageDiscount	19%		Average fare discount from Base Rate: 1 - (BaseRevenue / (DistanceDase x BaseRate))
36	MarketFactor	1.0		Market rate factor. Negotiated value for setting ratio of AverageDiscount
37	MarketRateCap	19%		Cap on passenger travel distance at market rate:  AverageDiscount x MarketFactor
38	MarketTravelCap	9,336,590,330	km	Cap on passenger travel distance at market rate:  DistanceBase x MarketRateCap

## **Project Summary**

Project A fully-automated, solar-powered, micro-**Description** rail network. A transportation utility.

**Project type Privately-funded Public Transit** 

Design, Build, Finance, Own, Operate,

Maintain (DBFOOM)

Project cost US\$16.35 billion

Cost to Gov't \$0

Structure Privately financed equity and debt

Debt term 10 years @ 5%

**Equity terms** A waterfall profit distribution with:

1. 90/10 split until Return of Capital,

2. then 50/50 until Target IRR met

3. then 10/90 onwards

Taxes & Fees \$1,842,930,736 per year

Benefits to

society and Extremely high environment

## **Financials**

(US\$ in millions)

	Year 1	Total Years 1-12
Gross Revenues	12,361	300,984
Taxes and fees	618	15,049
Debt service	\$1,482	\$14,820

## 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

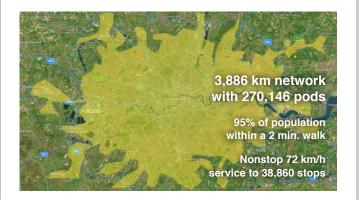




Transit X presents a preliminary proposal for privately-financed, solar-powered public transit network — a fleet of fully-autonomous, shared, electric, 4-passenger vehicles (pods) on a local and regional podway

## London, UK

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-rail 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 2018. First pilots will break ground in 2019 and begin operations in 2020. Transit X is a privately held company founded in 2015, based in Boston, Massachusetts.

## 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 nondisclosure/non-compete/non-circumvent agreements. Contact: Mike Stanley, CEO, Transit X, mike@transitx.com, 508-596-7024



## **Model Inputs and Assumptions**

Route length (km) 3,886

Starting number of pods 89,148

Projected revenue growth 15%

Project Cost (Privately funded) \$16,348,261,920

% Debt financed 70%

Debt \$11,443,783,344

**Equity** \$4,904,478,576

Capital return per year \$980,895,715

**Debt payment (per year)** \$1,482,022,298

Travel per year per pod (km) 168,192

Revenue per vehicle-km (US\$) 0.82

OPEX as % of project cost 5%

Debt Interest rate 5%

Debt term (yrs) 10

Years to return equity capital 5

Profit share when below capital return 90%

Profit share when below Target IRR 50%

Profit share when above Target IRR 10%

#### **Pro Forma**

Y	ears (	0	1	2	3	4	5	6	7	8	9	10	11	12
Revenue		0	12,361,095,831	14,215,260,205	16,347,549,236	18,799,681,622	21,619,633,865	24,862,578,945	28,591,965,786	32,880,760,654	37,812,874,753	43,484,805,965	50,007,526,860	57,508,655,889
5% RoW÷tax÷fee	<b>e</b> (	)%	618,054,792	710,763,010	817,377,462	939,984,081	1,080,981,693	1,243,128,947	1,429,598,289	1,644,038,033	1,890,643,738	2,174,240,298	2,500,376,343	2,875,432,794
Debt service		0	\$1,482,022,298	\$1,482,022,298	\$1,482,022,298	\$1,482,022,298	\$1,482,022,298	\$1,482,022,298	\$1,482,022,298	\$1,482,022,298	\$1,482,022,298	\$1,482,022,298	0	0
Investor balance	,		-\$2.819.327.245	-\$561.020.674	\$1.896.414.425	\$4.582.847.329	\$7.532.627.711	\$10.785.257.692	\$13.601.448.139	\$16.818.157.181	\$20,495,462,606	\$24.702.453.872	\$29.666.786.086	\$35.331.627.824

#### **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.