

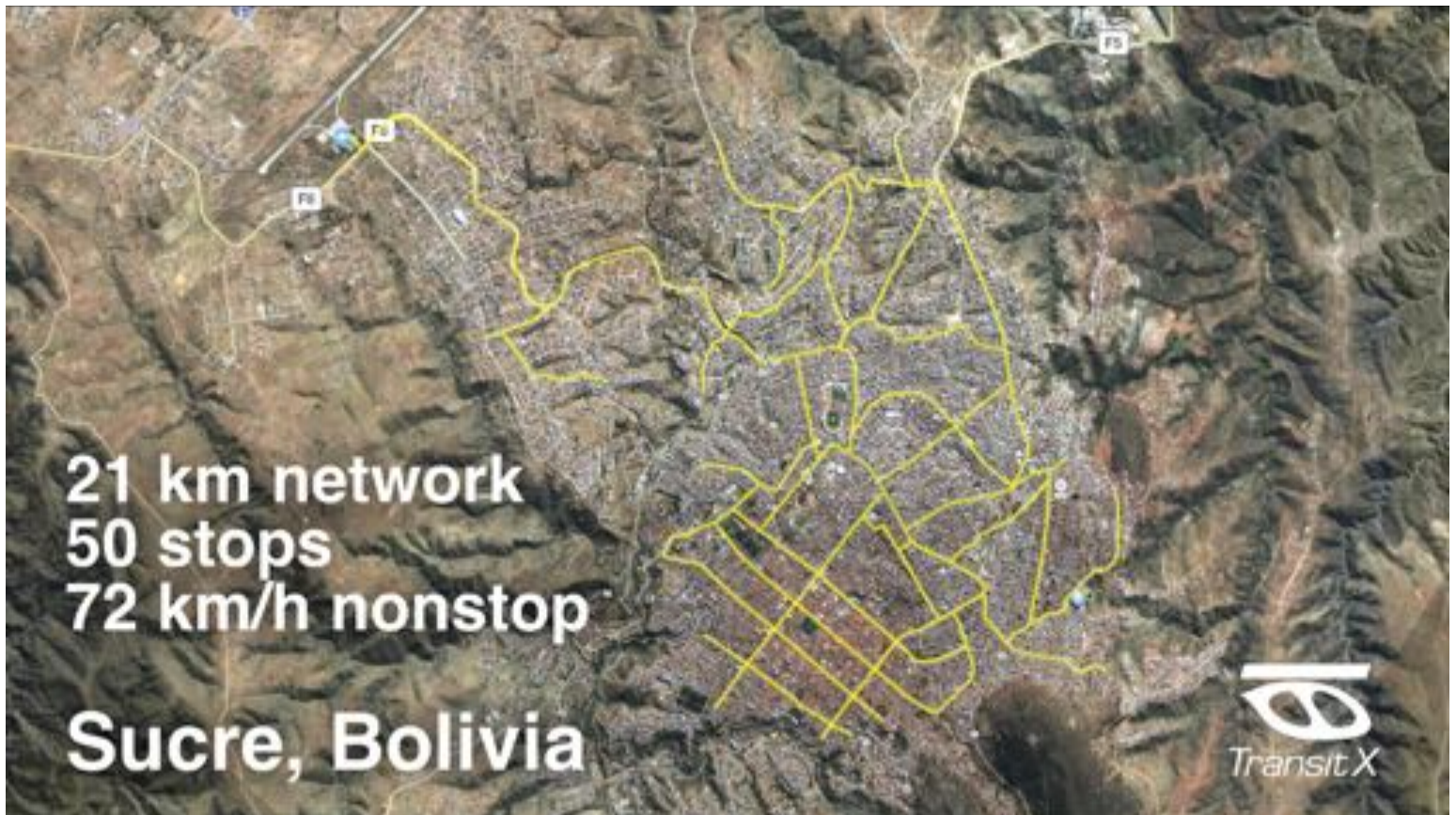


Transit X, LLC offers a preliminary proposal for

## **Sucre, Bolivia**

For a privately-funded mobility service that is

**High capacity • Automated • Wait-free**  
**Solar powered • Final destination • Resilient**





# Economics for Sucre, Bolivia

Inputs are underlined.

Size of region	<u>23.3</u>	km <sup>2</sup>	
Number of people in region (residents + visitors)	<u>300,000</u>		
<b>Travel distance per year by all people (residents and visitors)</b>	<b>4,350,000,000</b>	km	2,701,863,354 mi
Percentage of all travel that occurs within the region	<u>80%</u>		
Region's area that is conveniently served by paved roads	<u>80%</u>		
<b>Area to serve</b>	<b>18.64</b>	km <sup>2</sup>	
Desired coverage (percent of people convenient to Transit X)	<u>90%</u>		
Estimate #1 for network length based on desired coverage	<u>21</u>	km	
Length of paved roads (non-highway) in region	<u>47</u>	km	
Estimate #2 for network length based on paved roadways	<u>21</u>	km	
<b>Transit X network length</b>	<b>21</b>	km	
Total fixed costs for Transit X	\$48,755,250		
...per person	\$163		
Mode share of travel on Transit X	77%		
Distance traveled on Transit X, per year	2,662,200,000	km	1,653,540,373 mi
...per day	7,293,699	km	4,530,248 mi
Daily number of people riding Transit X	229,500		
Distance per Transit X customer per day	32	km	19.7 mi
Average trip distance	11	km	
Cost for an average trip	\$0.50		3.43 Boliviano
Distance traveled during peak hour	729,370	km	453,025 mi
<b>Number of pods needed to meet peak demand</b>	<b>6,331</b>	pods	
Pod shed parking volume	226	standard 53' trailers	
Cost of pods	\$31,655,000		
Cost of pods per person	\$106		
Milage per year per pod	420,502	km	too high
Revenue per pod per year	\$19,711		Boliviano
<b>Yearly payment to municipality for RoW</b>	<b>\$6,379,671</b>		<b>44,083,524</b> Boliviano
<b>System Economics</b>			
Total system cost	\$80,410,250	555,634,828	Boliviano
OPEX (O&M Costs)	\$5,628,718	38,894,438	Boliviano
Equity	\$40,205,125	277,817,414	Boliviano
Financed	\$40,205,125	277,817,414	Boliviano
Revenue from fares	\$124,790,625	862,303,219	Boliviano
EBITA (Profit)	\$119,161,908	823,408,781	Boliviano
Debt service	\$5,226,666	36,116,264	Boliviano
OPEX + Debt service	\$10,855,384	75,010,702	Boliviano
Net income	\$113,935,241	787,292,517	Boliviano
Operating Margin	95%		
One-time fixed costs (per person)	<b>\$268</b>		<b>1,852</b> Boliviano
Operating costs (per passenger-km)	<b>\$0.00</b>		<b>0.03</b> Boliviano
Equivalent number of cars taken off the road	<b>183,600</b>	cars	
Yearly cost of cars removed (per person)	<b>\$5,508</b>		<b>38,060</b> Boliviano
Breakeven revenue distance per day	634,470	km	394,081 mi
Breakeven (people riding daily)	<b>19,964</b>	people	
<b>IRR (Internal rate of return)</b>	<b>142%</b>		
Payback period (profits pays back equity)	<b>4</b>	months	
Network capacity (number of pods)	625	pods	
Peak demand as % of maximum track capacity	1,013%		
<b>Externalities (estimated)</b>			
Reduction in CO2 emissions	<b>315,470,700</b>	kg CO <sub>2</sub>	
Public cost for maintaining roadways per year	<b>\$2,376,600</b>		<b>16,422,306</b> Boliviano
Reduced waste products per year	<b>17,212,500</b>	kg	
Travel time saved (hours per person per year)	564		
Cost savings per household per year over personal car ownership	\$6,648		
Increase in household income from time saving and car costs	<b>147%</b>		
Reported injuries avoided per year	<b>1,651</b>		
Lives saved per year	<b>17</b>		
Land freed from less street parking and parking lots	TBD		
Health care cost savings from lower pollution	TBD		
Municipal revenue from leasing rights-of-way	\$140,139		