



Transit X, LLC offers a concept proposal for

Branson, Missouri

For a privately-funded mobility service that is

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





Economics for Branson, Missouri

Transit X.	Inputs are underlined		
Size of region		km²	20.4 sq miles
Number of people in region (residents + visitors) Travel distance per year by all people (residents and visitors)	32,980 478,207,219.178082	km	297,023,118 mi
Percentage of all travel that occurs within the region	60%	Turi	
Region's area that is conveniently served by paved roads	40%		
Area to serve	21.2	km ²	8.2 sq miles
Desired coverage (percent of people convenient to Transit X) Estimate #1 for network length based on desired coverage	<u>70%</u> 18	km	11.3 miles
Length of paved roads (non-highway) in region		km	32.9 miles
Estimate #2 for network length based on paved roadways		km	11.5 miles
Transit X network length	19	km	11.5 miles
Total fixed costs for Transit X	\$43,128,750		
per person	\$1,307.73		
Mode share of travel on Transit X	60%	lem	100 007 050
Distance traveled on Transit X, per year	170,719,977		106,037,253 mi 290,513 mi
per day Daily number of people riding Transit X	467,726 19,623	КП	290,5131111
Distance per Transit X customer per day		km	14.8 mi
Average trip distance		km	4.9 miles
Cost for an average trip	\$2.23	NIII	כשוווו כ.ד
Distance traveled during peak hour	46,773	km	29,051 mi
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Number of pods needed to meet peak demand	406		
Pod shed parking volume Cost of pods	\$2,030,000	standard 53' trailers	
Cost of pods per person	\$62		
Milage per year per pod	420,493	km	too high
Revenue per pod per year	\$118,264		
Yearly payment to municipality for RoW	\$2,524,717		
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System Economics	445 450 750		
Total system cost	\$45,158,750		
OPEX (O&M Costs)	\$3,161,113		
Equity Financed	\$22,579,375 \$22,579,375		
Revenue from fares	\$48,014,994		
EBITA (Profit)	\$44,853,881		
Debt service	\$2,935,319		
OPEX + Debt service	\$6,096,431		
Net income	\$41,918,562		
Operating Margin	93%		
One-time fixed costs (per person)	\$1,369		
	\$0.06		
Operating costs (per passenger-mile)	·		
Equivalent number of cars taken off the road	11,774	cars	
Yearly cost of cars removed (per person)	\$3,213		
Breakeven revenue distance per day	59,387	km	36,886 mi
Breakeven (people riding daily)	2,492	people	
IRR (Internal rate of return)	93%		
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Payback period (profits pays back equity)		months	
Network capacity (number of pods)		pods	
Peak demand as % of maximum track capacity	73%		
Externalities (estimated)			
Reduction in CO2 emissions	20,230,317	kg CO ₂	
Public cost for maintaining roadways per year	\$2,703,000		
Reduced waste products per year	1,103,793	kg	
Travel time saved (hours per person per year)	423		
Cost savings per household per year over personal car ownership	\$2,947		
Increase in household income from time saving and car costs	20%		
Reported injuries avoided per year	106		
Lives saved per year	1		
Land freed from less street parking and parking lots	TBD		
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Health care cost savings from lower pollution Municipal revenue from leasing rights-of-way	TBD \$123,967		