



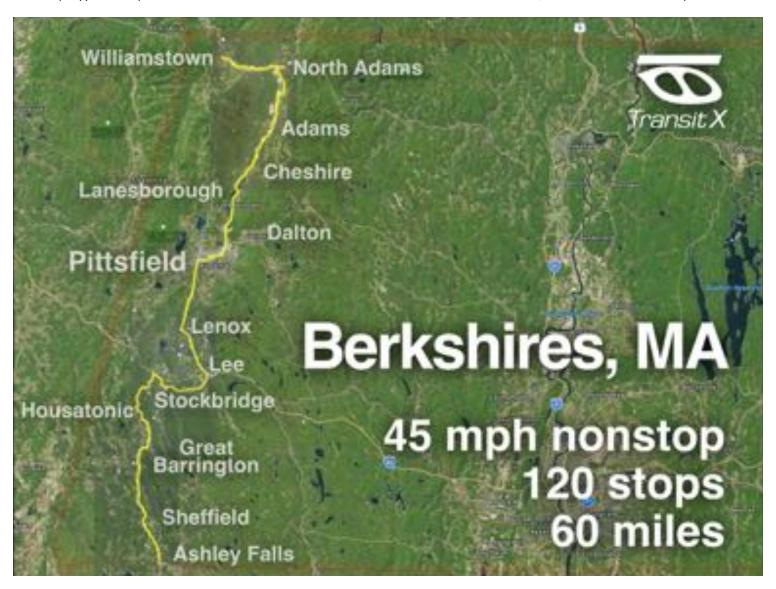
Transit X, LLC offers a preliminary proposal for

Berkshires, MA

For a privately-funded shared mobility service that is

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

26-page companion Transit X Handbook available at transitx.com/transitxhandbook.pdf





Economics for Berkshires, MA

Transit X.	Inputs are underlined		
Size of region Number of people in region (residents + visitors)	2,401 126,715		926.3 sq miles
Travel distance per year by all people (residents and visitors)	1,837,367,500	km	1,141,222,050 mi
Percentage of all travel that occurs within the region	<u>80%</u>		
Road coverage (percent of area conveniently served by paved roads)	400.00	lem?	74.4
Service area size	192.08	KIII-	74.1 sq miles
Coverage (percent of people convenient to Transit X) Estimate #1 for network length based on desired coverage	<u>41%</u> 96	km	59.9 miles
Length of paved roads (non-highway) in region	<u>480</u>		298.3 miles
Estimate #2 for network length based on paved roadways		km	61.1 miles
Transit X network length	98	km	61.1 miles
Total fixed costs for Transit X	\$228,875,325		
per person	\$1,806		
Mode share of travel on Transit X	35%		
Distance traveled on Transit X, per year	512,258,059		318,172,707 mi
per day	1,403,447	km	871,706 mi
Daily number of people riding Transit X	44,160		
Distance per Transit X customer per day	32	km	19.7 mi
Average trip distance	11	km	6.6 miles
Cost for an average trip (at \$0.28 per km)	\$2.98		
Distance traveled during peak hour	140,345	km	87,171 mi
Number of pods needed to meet peak demand	1,218	pods	
Pod shed parking volume	44	standard 53' trailers	
Cost of pods	\$6,090,000		
Cost of pods per person	\$48		
Yearly payment to municipality for RoW	\$7,203,629		
	41,200,020		
System Economics	****		
Total system cost	\$234,965,325		
OPEX (O&M) per year	\$16,447,573		
Equity	\$117,482,663		
Financed	\$117,482,663		
Revenue from fares	\$144,072,579		
EBITA (Profit)	\$127,625,006		
Debt service	\$15,272,746		
OPEX + Debt service	\$31,720,319		
Net income	\$112,352,260		
Operating Margin	89%		
One-time project costs (per person)	\$1,854		
Operating costs (per passenger-mile)	\$0.10		
Equivalent number of cars taken off the road	35 328	motor vehicles	
•	ŕ	motor verildes	
Yearly cost of cars removed (per person)	\$2,509		
Breakeven revenue distance per day	308,995	km	191,923 mi
Breakeven (people riding daily)	9,723	people	
IRR (Internal rate of return)	47%		
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Payback period (profits pays back equity)		months	
Network capacity (number of pods)	2,935	pods	
Peak demand as % of maximum track capacity	42%		
Externalities (estimated)			
Reduction in CO2 emissions	60,702,580	kg CO ₂	
Public cost for maintaining roadways per year	\$24,490,200		
Reduced waste products per year	3,312,013	kg	
Travel time saved (hours per person per year)	564		
Cost savings per household per year over personal car ownership	\$3,930		
Increase in household income from time saving and car costs	27%		
Reported injuries avoided per year	318		
Lives saved per year	3		
Land value from reduced parking	TBD		
Health care cost savings from lower pollution	TBD		
	TBD	°C	
Change in local temperature heat island (degrees C)			