

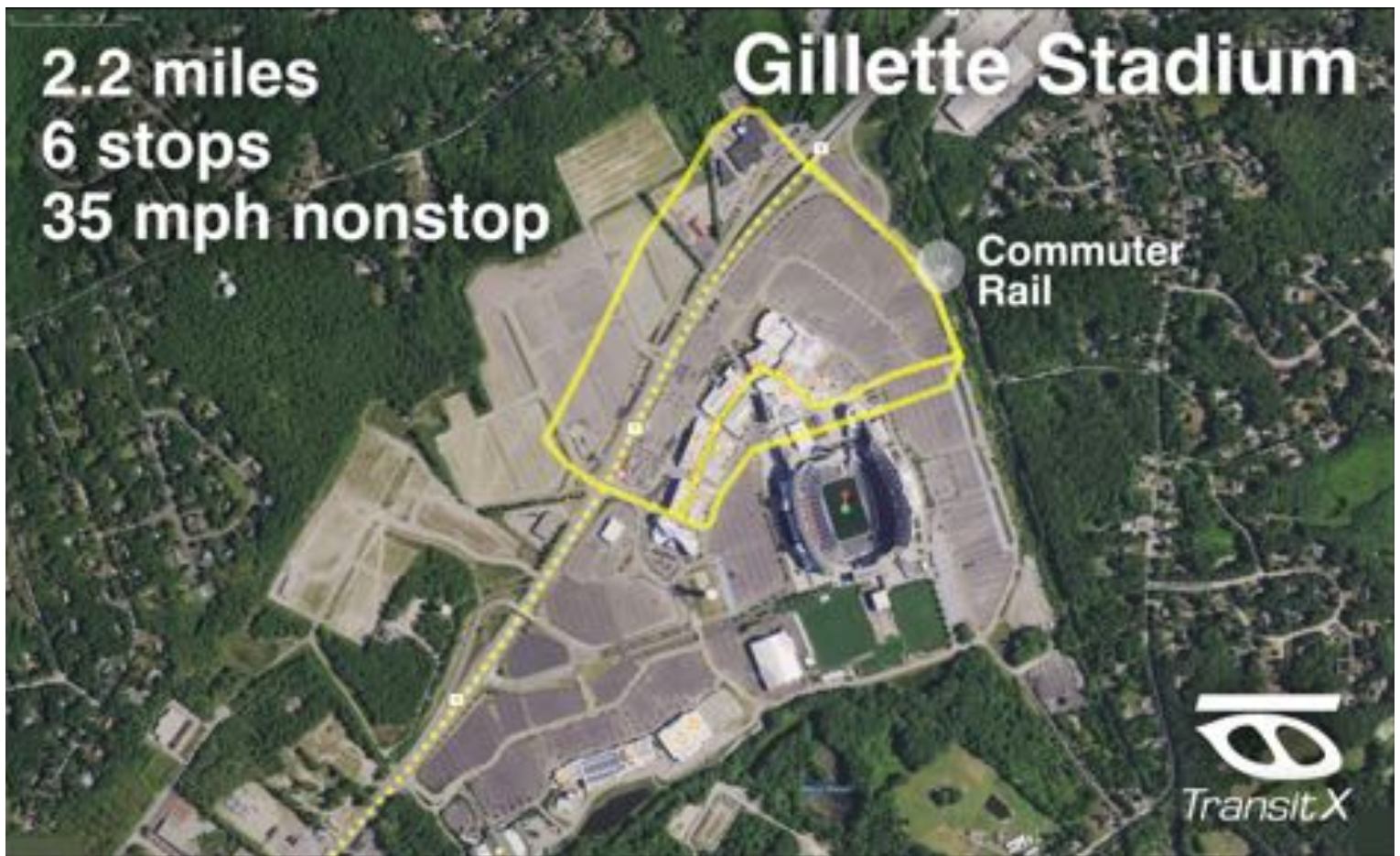


Transit X, LLC offers a preliminary proposal for

Gillette Stadium

For a privately-funded shared mobility service that is

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



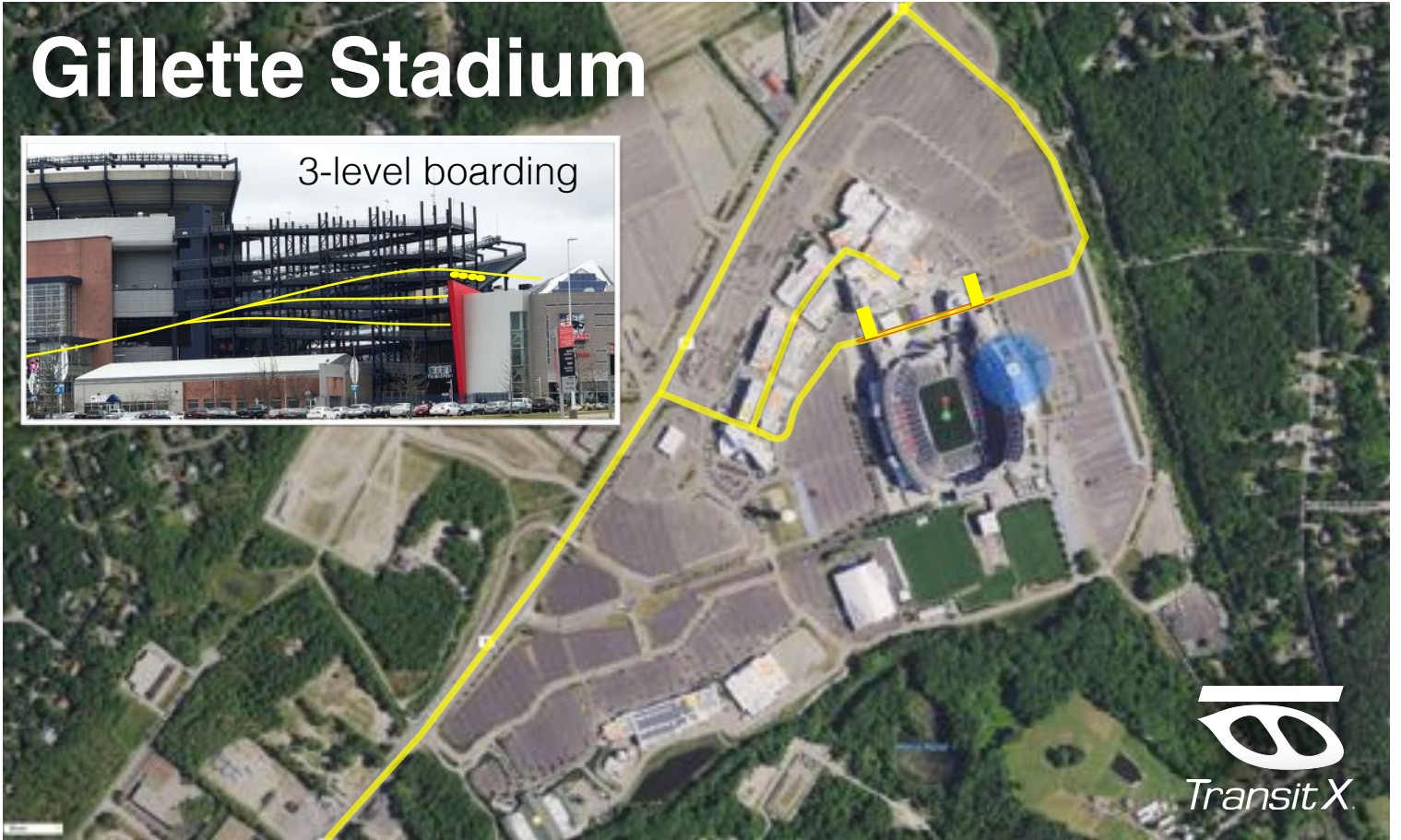
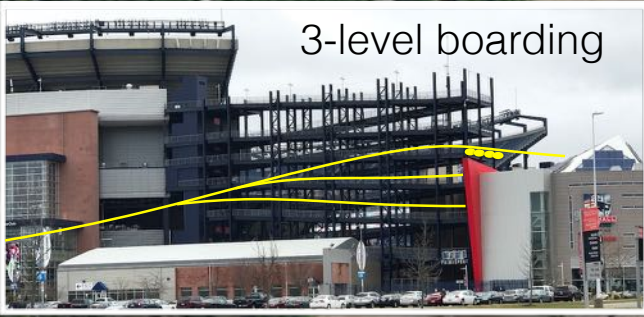


Economics for Kraft loop

Inputs are underlined.

Size of region	<u>3</u> km ²	1.2 sq miles
Number of people in region (residents + visitors)	<u>15,000</u>	
Travel distance per year by all people (residents and visitors)	217,500,000 km	135,093,168 mi
Percentage of all travel that occurs within the region	<u>3%</u>	
Region's area that is conveniently served by paved roads	<u>100%</u>	
Area to serve	3 km ²	1.2 sq miles
Desired coverage (percent of people convenient to Transit X)	<u>100%</u>	
Estimate #1 for network length based on desired coverage	<u>4</u> km	2.3 miles
Length of paved roads (non-highway) in region	<u>8</u> km	4.7 miles
Estimate #2 for network length based on paved roadways	<u>4</u> km	2.3 miles
Transit X network length	4 km	2.3 miles
Total fixed costs for Transit X	\$8,718,750	
...per person	\$581.25	
Mode share of travel on Transit X	85%	
Distance traveled on Transit X, per year	5,546,250 km	3,444,876 mi
...per day	15,195 km	9,438 mi
Daily number of people riding Transit X	12,750	
Distance per Transit X customer per day	<u>1</u> km	0.7 mi
Average trip distance	<u>0</u> km	<u>0.2</u> miles
Cost for an average trip	\$0.11	
Distance traveled during peak hour	1,520 km	944 mi
Number of pods needed to meet peak demand	13 pods	
Pod shed parking volume	0 standard 53' trailers	
Cost of pods	\$65,000	
Cost of pods per person	\$4	
Milage per year per pod	426,635 km	too high
Revenue per pod per year	\$119,991	
Yearly payment to municipality for RoW	\$103,055	
System Economics		
Total system cost	\$8,783,750	
OPEX (O&M Costs)	\$614,863	
Equity	\$4,391,875	
Financed	\$4,391,875	
Revenue from fares	\$1,559,883	
EBITA (Profit)	\$945,020	
Debt service	\$570,944	
OPEX + Debt service	\$1,185,806	
Net income	\$374,077	
Operating Margin	61%	
One-time fixed costs (per person)	\$586	
Operating costs (per passenger-mile)	\$0.34	
Equivalent number of cars taken off the road	383 cars	
Yearly cost of cars removed (per person)	\$230	
Breakeven revenue distance per day	11,551 km	7,175 mi
Breakeven (people riding daily)	9,692 people	
IRR (Internal rate of return)	-9%	
Payback period (profits pays back equity)	56 months	
Network capacity (number of pods)	112 pods	
Peak demand as % of maximum track capacity	12%	
Externalities (estimated)		
Reduction in CO2 emissions	657,231 kg CO ₂	
Public cost for maintaining roadways per year	\$382,500	
Reduced waste products per year	35,859 kg	
Travel time saved (hours per person per year)	21	
Cost savings per household per year over personal car ownership	\$147	
Increase in household income from time saving and car costs	1%	
Reported injuries avoided per year	3	
Lives saved per year	0	
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	\$25,061	

Gillette Stadium



Foxborough & Gillette Stadium

