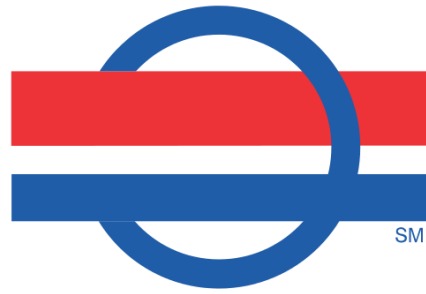


Service Planning

- a. UVX Before and After Study



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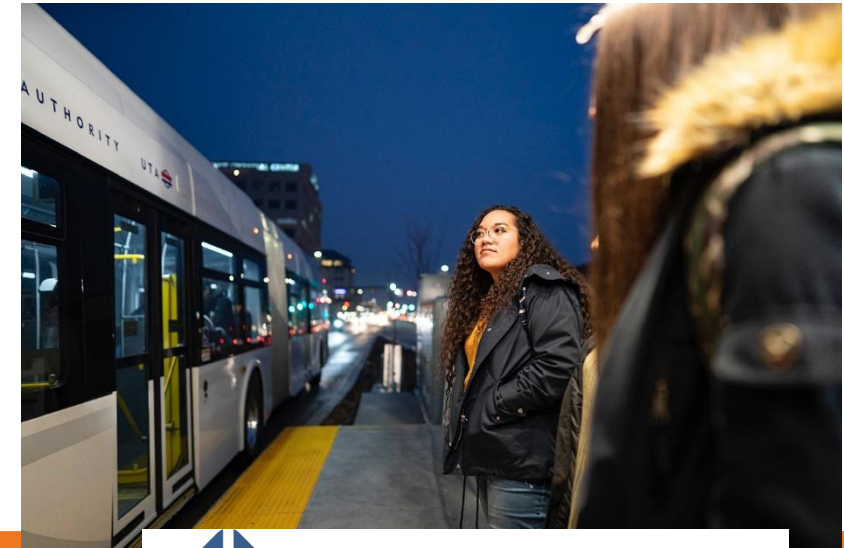
 *Keeping Utah Moving*

Utah Valley Express – Before/After
Experience

Utah Valley Express Before and After

Project Overview:

MAG, UTA and UDOT partnership to evaluate the before and after benefits of UVX. 10.5 mile long bus rapid transit project with 18 station connecting Orem Intermodal Center, Utah Valley University, Brigham Young University, Downtown Provo and the Provo Intermodal Center.



Utah Valley Express Before and After

Category	Subcategory	Change
Traffic Volume	Average Reduction along the UVX line	-2,500 vehicles/day
Land Use	Vacant Land	-18%
Travel Time	Change along UVX line (general public)	-0.1%
Crash Rate	Change along UVX line	Total: -40% Injury: -45%

Utah Valley Express Before and After

Category	Subcategory	Change
Transit Ridership	<p>Average Boardings/Weekday Ridership</p> <p>UVU @ 40-60% of in-person (2 days/week), BYU in-person UVX @ 10 min vs 6 min headways</p>	<p>Old 830 Bus: 1,800-2,050 UVX (Pre-pandemic): 12,000-14,000 UVX (Pandemic, Summer 2020): 2,500 UVX (Pandemic, Spring 2021): 4,100</p> <p>UVX (Post-Pandemic, Sept 2021): 7,000</p>
Population	Change in Provo/Orem (2017-2019)	3%
Student Enrollment	Change at BYU/UVU (2017-2019)	6%
Parking Supply	BYU and UVU increase (stalls) (2017-2019)	1,461
	General (stalls) (2017-2019)	3,126

Utah Valley Express Before and After

Pollutant/Fuel	Daily Reduction	Annual Weekday Reduction
VOC	37 lb	9,250 lb
CO	340 lb	85,000 lb
NOX	25 lb	6,250 lb
CO2	13340 lb	3,335,000 lb
Gasoline	680 gal	170,000 gal

Discussion

