



Alexandria Bus Network ITS

Intelligent Transportation System Improvements



Project Description

DASH is seeking to upgrade its real-time passenger info capabilities by implementing Real-Time General Transit Feed Specification (GTFS), developing a Real-Time SMS text system, and installing additional real-time signage along several of its busiest transit corridors.

With Real-Time GTFS, DASH would be able to provide real-time trip planning information, based on actual vehicle locations instead of scheduled arrival times. DASH would be able to integrate its real-time data feed with partner agency platforms (i.e. WMATA's BusETA) and third-party applications such as Google Transit. The second item, Real-Time SMS, would allow passengers to get stop-specific real-time bus arrival information via text message. This is particularly helpful for passengers with non-smartphones, or those with tactile-related disabilities. Lastly, the additional real-time signage units would improve passenger information and convenience, particularly along busier routes and at major trip generators. Roughly 20 solar-powered units would be mounted on stop poles along major transit corridors such as King Street (Route 7), Duke Street, Beauregard Street, and Van Dorn Street.

Reference Number: 2018-042-1

TransAction ID: 194

Submitting Jurisdiction/Agency: City of Alexandria

Location: System-wide

Requested NVTA Funds: \$150,000

Total Cost to Complete Project: \$150,000

Project Location

SYSTEM-WIDE

Project Milestones

	Before FY2018	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	After FY2023
Design, Engineering, Environmental Work								
Right of Way Acquisition								
Construction								
Capital Asset Acquisitions			X					
Other*			X					

*Other includes installation/configuration of real-time signage, testing, launching real-time signage, and launching real-time GTFS and SMS systems

Project Funding

	Requested NVTA Funds	Other Funding Sources	Total Cost by Phase
Design, Engineering, Environmental Work			
Right of Way Acquisition			
Construction			
Capital Asset Acquisitions	\$68,500		\$68,500
Other	\$81,500		\$81,500
TOTAL:	\$150,000		\$150,000

Project Analysis Highlights

Congestion Reduction Relative to Cost Ratio (Total Cost in \$1000's):	5144.53
Congestion Reduction Relative to Cost Ratio Rank (Total Cost in \$1000's):	2
TransAction Project Rating:	64.62
TransAction Project Rating Rank:	51

Note: The project analysis above was completed by NVTA staff using data and information from the project application and analyses of the region's transportation network.

Regional Impacts

- Provide real-time information system
- Reduce congestion by making transit more convenient and attractive for existing and potential riders

Note: The regional impacts listed above are a summary of what was submitted in the project application NVTA staff received from the jurisdiction or agency that has applied for funding.