MNTRC
MINETA NATIONAL TRANSIT RESEARCH CONSORTIUM

UTC Project Information	
Project Title	Passenger Flows in Underground Railway Stations and Platforms (Former title: Passenger Flows in Railway Stations and Platforms)
University	San José State University Mineta National Transit Research Consortium
Principal Investigator	Anastasia Loukaitou-Sideris, Ph.D.
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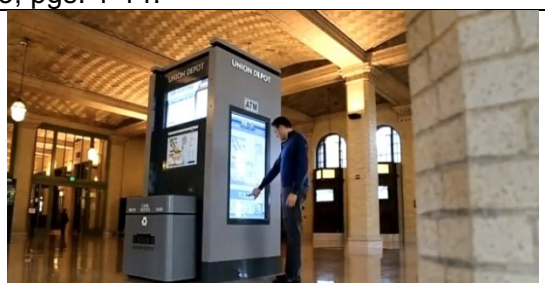
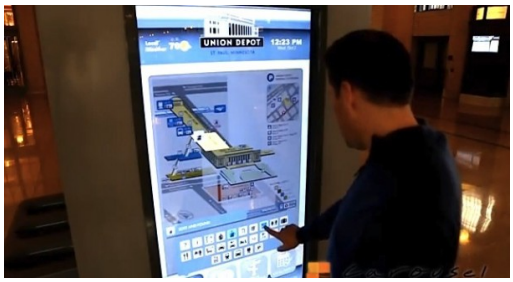
Funding Source(s) and Amounts Provided (by each agency or organization)	Research and Innovative Technology Administration University Transportation Centers Program ($32,500) California Department of Transportation Office of Research—MS42 ($32, 500)
Total Project Cost	$65,000
Agency ID or Contract Number	DTRT12-G-UTC21
Start and End Dates	August 2013 – May 2015
Brief Description of Research Project	Urban rail systems are designed to carry large volumes of people into and out of major activity centers. As a result, the stations at these major activity centers are often crowded with boarding and alighting passengers, resulting in passenger inconvenience, delays, and at times danger. This study examines the planning and analysis of station passenger queuing and flows to offer rail transit station designers and transit system operators guidance on how to best accommodate and manage their rail passengers. The objectives of the study are to: 1) Understand the particular infrastructural, operational, behavioral, and spatial factors that affect and may constrain passenger queuing and flows in different types of rail transit stations; 2) Identify, compare, and evaluate practices for efficient, expedient, and safe passenger flows in different types of station environments and during typical (rush hour) and atypical (evacuations, station maintenance/ refurbishment) situations; and 3) Compile short-, medium-, and long-term recommendations for optimizing passenger flows in different station environments.

Describe Implementation of Research Outcomes (or why not implemented)	Sideris, Anastasia. "Planning for Pedestrian Flows at Rail Transit Stations: A State-of-practice Survey." Presentation at the 94th Annual Meeting of the Transportation Research Board, Washington, DC, January 12, 2015. Voulgaris, C. T., Loukaitou-Sideris, A., and Taylor, B. (2015). "Planning for Pedestrian Flows in Rail Rapid Transit Stations: Lessons from the State of Current Knowledge and Practice." *Journal of Public Transportation*, Vol. 18, No. 3, pgs. 1-14.
Place Any Photos Here	  Dynamic, Interactive Digital Signage at St. Paul's Union Depot
Impacts/Benefits of Implementation (actual, not anticipated)	
Web Links • Reports • Project Website	Final report (MNTRC Website): http://transweb.sjsu.edu/project/1230.html