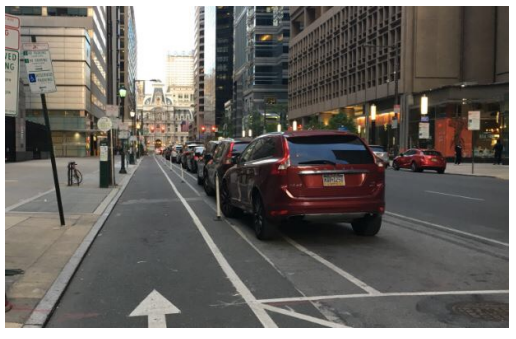
JzTI transportation planning for a sustainable future

Bicycling

Philadelphia Bikeshare Study

JzTI led the initial concept study for Philadelphia's successful bikeshare program for the Philadelphia Bicycle Coalition and William Penn Foundation. This study drew on comparables from throughout the globe to establish the general parameters for the program, including an assessment of operating models, demand patterns, bikeshare station locations, implementation phasing, and complementary infrastructure enhancements.

Market Street & JFK Boulevard Bikeway Concept Design - Philadelphia PA



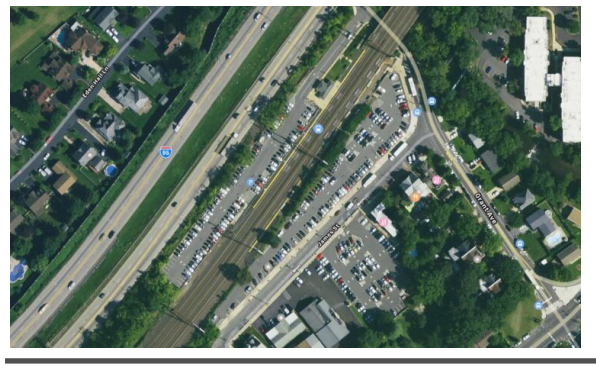
JzTI, in conjunction with Parsons Brickerhoff, developed a concept design for a curb-protected bikeway pair on busy Market Street and John F. Kennedy Boulevard in Center City. This study progressed from the evaluation of cross-sectional alignments and traffic management options to full concept design, with consideration of safety, traffic operations, parking, signaling, and pedestrian crossings. The final proposal included a design that incorporated a number of innovative safety features and traffic calming measures for both bicycles and general traffic.

Bicycle Quality Assessment Framework

In conjunction with AECOM Australia, JzTI has developed an evaluation framework for identifying the strengths and weaknesses of bicycling conditions on city and suburban streets. By isolating each component of the overall bicycling environment on any corridor -- including bike lane width, protective buffers, traffic speeds, traffic volumes, crossings, edge treatments and turning conflicts -- it enables both the comparison of bike routes and the identification of priority improvements.

Key Access Corridors	Cycling facilities			Traffic crossings		Nature of traffic		Cycling environment			
Cycling Quality Assessment	Continuity of paths/lanes	Width of paths/lanes	Buffer from traffic	Safety of crossings	Convenience of crossings	Traffic speed	Turning conflicts	Traffic volumes	Topography	Landscape	Key destinations
Lara											
Walkers Rd											
Mill Rd											
McClelland Ave											
Rennie St											
Station Lake Rd											
North Shore											
Station St											
Abery Rd											
The Esplanade											
Corio Quay Rd											
N Shore Rd											
North Geelong											
Victoria St W											
Princes Hwy N											
Victoria St E											
Princes Hwy S											
Baxter Rd											

North Delaware Riverfront Station Design & Access Study - Philadelphia PA



Effective bicycle circulation is a key component of sustainable transportation planning. As such, JzTI was engaged as transportation planner for the North Delaware Riverfront Rail Stations Urban Design Study, an important element of which was identification of suitable connecting bicycle corridors between four regional rail stations and the burgeoning recreational riverfront. This project entailed the systematic rating of station-area streets for bicycle compatibility, as well as the evaluation of unused rail corridors and other rights-of-way for potential off-street connections.