University Bike-Share Systems: A Systems Engineering Techno-socio-economic Approach
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1.0 Abstract

Bike sharing systems have become very popular in recent years due to its proven success in providing cities with alternative and cleaner form of transportation. Current Bike-Share Systems represent the 4th generation of bike sharing system technologies. With the ongoing transformation at The University of Texas at El Paso (UTEP) and its pursuit of Tier one status, sustainability and green initiatives have become a major driver for the University’s future development initiatives. This white paper discusses UTEP’s systematic techno-socio-economic approach to University Bike-Share Systems. By developing an infrastructure with applied innovative technologies (4th generation) to be economically driven, social behavioral change can be accomplished. The University Bike-Share System uses Lean Thinking and Lean Principles to achieve the delivery of an efficient Bike-Share system that satisfies the stakeholders’ needs.

Keywords: Environment, Transportation, Bike sharing, University, Systems Engineering Process, Lean Thinking

Biography:

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