A GENERAL FRAMEWORK FOR DESIGNING DEMAND RESPONSIVE TRANSIT SERVICE

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Abstract

This study intends to develop a general framework for designing the operational model of DRTS. Demand-side and supply-side influence factors were analyzed. The proposed framework defines four service types, consisting of connection, commutation, community and charity services. In addition, various elements of design, such as vehicle (taxi-based and bus-based), stop (fixed and temporary), route (fixed, deviated, flexible and free), and schedule (fixed, flexible and free) are comprehensively discussed. Such a framework could provide a guideline for the service provider and planner.

Keyword：Demand responsive transit; flexibility; operational model