



Abstract

Connections and Transfer Systems for Trams

- Passenger-carrying capacity of a tram is a bit higher than a bus. However due to the operation characteristics of trams, crossing the crossroads like other means of transportation by the direction of traffic lights, passenger-carrying capacity of trams is not particularly higher than buses. When trams use exclusive routes on the roads, at least two lanes of existing roads should be given up for trams only. This may cause traffic conditions worse than before.
- Thus in the perspective of cost and benefit, construction and operation of trams could not be much persuasive. Thus it is essential to set up a distinct and adamant purpose to adopt trams in a city with a thorough scrutiny of its feasibility. The most generally known types of purpose are as follows. First, city can introduce trams in order to provide higher and better public transportation service in terms of safety and convenience especially for the transportation vulnerable. Second, trams can be used to restore urban vibe in an old or deteriorated urban environment. Third, tram zones can transfigure urban center to be environment and human friendly space by banning private vehicles. For these purposes to be retained, it is somewhat inevitable to embrace higher construction and operation costs comparing to the exiting bus services.
- When trams enter the existing public transportation systems, a large scale adjustment of public systems should be made for better performance with resolving discord. Foremost task is to organize and assign functions and roles between trunk lines and branch lines as placing tram lines on the major public transportation axis. Because all the bus lines are operated by private

companies in Korea, it is hard and also particularly important to tune the bus lines with the introduction of trams. One resolution to ease the opposition from private bus companies is to allow them an opportunity to participate as shareholders of tram operation

Keyword Tram operation, Tram transfer, Tram system