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## **APPROACHES BY EUROPEAN BIG CITIES ON URBAN TRANSPORT IMPROVEMENT**

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### **ABSTRACT**

In this article the experiences of European countries in developing sustainable public transport is learnt and matched to different Asian developing countries such as Uzbekistan. The most initial steps to develop preliable and attractive public transport are inspected and steps of approach regarding how we should develop our public transport are mentioned with details in this paper.

### **KEYWORDS**

Urban passengers, public transport, interchanges, terminal, GPS navigators, time based ticket, monitor, information desk, integration.

### **INTRODUCTION**

By the 21st century, the development of urban public transport system is guaranteeing one of the most

important sectors for economy of every nation and the improvement of the quality of services for city

passengers in this area is recognized as one the most urgent principles. The reason is that every lost minute of workers or students in cities while they are travelling among the daily destinations totally sums up billions of dollar every day. In recent years, the growing population of cities in both European and Asian countries has led to a spontaneous increase in demand for public transport.

Further development of this sector will improve the living standards of the urban population, prevent congestion in urban areas, as well as reduce the amount of environmentally harmful gases emitted into the environment from vehicles. In order to make the people to prefer public transport for their daily trips rather than their own vehicles, the public transport should be attractive in all aspects, in terms of time, economy, safety and convenience. We can identify the most basic and fundamental principles from the European countries' experience in the development of urban transport.

Main body. If we look at the development of public transport around the world, the most important stage is the use of electronic devices that provide information about the movement of urban transport to urban passengers. The first experience in the application of such information technologies in public transport mainly belongs to European experts.

Therefore, we will analyze the steps that have already been taken by European countries and are considered fundamental in improving urban transport, but not fully implemented in Asia and some developing countries.

An Intelligent Transportation System is the key stage in developing urban transport system. In general, ITS is an application which will make the passenger better informed, safer, more coordinated and smarter while using public transportation networks. Basically it is a system in which information and communication technologies are applied in the field of road transport. To quote certain examples, Speed guns checking the speed of automobile automatically, Automatic number plate recognition, feedback information display from the GPS installed on buses, which will enable passenger to know when the bus will reach that place etc.

There are big differences about the development of urban public transport between European and Central Asian countries. Having a close glance, in the area of information technologies in urban transport, three main differences are distinguished which have not been well organized in poor countries. These three main differences are categorized below in terms of possibilities, advantages and difficulties in their implementation (Table 1).

Category name	Description about what development it is	Advantages for urban transport and its passengers	Difficulties in implementation
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1. Easy to  
understand



Subways are decorated with the map with schemes and numbered with block numbers from 1 to 4.

All public transport modes are provided with tables including the map of integrated transportation.

It makes travelers' trip easier to move on urban transport.

Passengers can be aware of which transport modes are available to change. For example, people know where they can interchange from subway to tram or bus.

In general, it does not require much implementation cost to organize it on public transport such as bus, subway, tram and light train etc. Such tables must be attached at the each door of public transport.






3. Well organized			
	All urban transport modes should be usually united and integrated each other in one terminal.	This provides city travelers to pass among different modes and get their destinations safely, cost effectively, quickly and environmentally friendly.	To run all public transport modes in this way might need much effort by government. And the method of transport fare also should be changed from single trip based to time based.

Table 1. The main steps in development of public transport

## CONCLUSIONS

Providing a convenient, safe, fast and reliable public transport service for passengers is one of the most pressing issues in all megacities. And interestingly, the quality of urban transport provides the better potential of city dwellers by saving their precious time and ensuring their safety. Providing an equality of between accessibility and mobility is a critical aspect in creating a sound and sustainable public transportation.

It is clear that, everyone wants to have right choices for their trip but these steps based on three principles mentioned above for development of urban public transport are not easy to achieve in short time. The obvious reason is the financial problem in governmental organizations as no one is willing to pay extra for improvements in such the transport planning, transport structure or roads and others around them in their neighborhood. That is why, expertizes in this area from poor countries should learn how to develop urban public transport by making long term projects

based on implementing mentioned principles in congested cities step by step. At the end, these all approaches in urban areas will make public transport more attractive and reliable then surely lead to the safer, quicker, more cost effective and more environmentally friendly trip for passengers throughout the city.

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