MANAGEMENT CONCEPT OF THE KHARKIV TRANSPORTATION INFRASTRUCTURE Kovalenko V., Parkhomenko O., Alieksieiev V. National Technical University «Kharkiv Polytechnic Institute», Kharkiv

Kharkiv is the huge European metropolitan city with developing multiple transportation system. Nowadays the latest amenities are represented for inhabitants and directed first of all to create comfortable, safe and accessible opportunities for travelling by public transport.

There is no doubt, that this is really difficult challenge to accomplish, despite of availability of modern information technologies and successful practices of realized solutions in large metropolitans in Europe.

The purpose of this work is to develop a concept for managing the passenger transportation flows that yields to reduce the ecosystem load of the city essentially, to optimize the public transportation system with providing a high level of passengers' convenience and safety, unified tariff system and universal ticket, which can be used in all kinds of public transport.

E-ticket, which has been currently implemented in Kharkiv, is a tool for payment and can be used for monitoring the passengers' flow in the suggested concept.

The suggested concept is based on principles, which were founded and realized by Verkehrsverbund Rhein-Ruhr (VRR, Germany), the biggest driver, which unites all kinds of public transport and high-speed downtown-urban electrical trains S-Bahn in the single group, and also by the BKV-company in Budapest.

The ground of this concept should be the unified public utilities, which will drive all transportation infrastructures, including passengers' terminals and bus stations. Information about the real load of routes, passengers' flow, contingent, distance of trip, depending on time of the day, days of week and even on weather conditions by dint of modern registration, storage and information processing technology with latter-day GPS makes it possible to drive the passengers' flows in real-time mode even under the conditions of emergency field.