Summary

The paper presents model assumptions of small aircraft transportation system in Poland based upon research done within a grant of Institute of Aviation along with Warsaw School of Economics and Warsaw Institute of Technology as well as research within the EPATS (European Personal Air Transportation System) programme. The final aim of this system is to provide a fast means of transport to all Polish regions, especially the provision of business trips to/from any region in Poland within one day at the cost comparable to travelling by car.

The paper describes basic assumptions of SATS in Poland, including infrastructure and aircraft requirements. Comparisons to other means of transport are presented and the lack of any close substitute is stressed.

Within the research on SATS there was a series of investigation on intra-regional mobility, passenger flows estimation based on income distribution, travel time value and intra-regional mobility statistical database. By combining the results of the above with the conclusions from the studies on air transport demand elasticities the authors come to a conclusion that there is considerable potential demand for SATS services. A draft concept of SATS functioning in Poland is also provided.

The system is innovative itself not only in terms of technology but also concept-wise. Similarly, organizational aspects should be considered innovative as well. Thus, SATS will be one of the factors contributing to the development of modern and innovative economy.