

DEVELOPMENT AND IMPLEMENTATION OF STRATEGIC PLANNING SUPPORT SYSTEMS IN THE URBAN ENVIRONMENT AND HEALTH SECTOR BY APPLYING A GEOGRAPHIC INFORMATION SYSTEM IN THE REPUBLIC OF MACEDONIA

Sasko Martinovski^{1*}, Vera Simovska¹, Valentina Pavlova¹, Daniela Nikolovska Nedelkovska¹, Djorgji Manceski²

¹Faculty of Technological and Technical Sciences - Veles, "St. Kliment Ohridski" University - Bitola Petre Prlicko 14, 1400 Veles, Republic of Macedonia

²Faculty of Economics - Prilep, "St. Kliment Ohridski" University - Bitola, Djorce Petrov bb, 7500 Prilep, Republic of Macedonia

*e-mail: sasko.martinovski@uklo.edu.mk

Abstract

Nowadays we use a great number of various planning systems, the most known of which are the PSS - Planning Support Systems. With the advancement of the Geographic Information System - GIS, the PSS became an important component, while the GIS is becoming a more common and strategic part within these systems. It is applicable in all areas related to spatial planning and strategic planning in the health sector in the Republic of Macedonia

The scope of this research is the development and implementation of PSS by using GIS for constructing business models. Computers and GIS play a significant role in achieving this task through the collection and storage of required data, providing system models that can describe the current situation, to project the future and to assist in determining the best plan of the range of available alternatives.

The purpose of this research is to show the development and implementation of PSS, their greater use in other sectors besides urban planning, and the development of scientific concepts for their construction. In this context, we commented on the model for the impact of socio-economic factors on healthy eating, regarding the economic and social benefit (M_ISEFHE_ESB) to the Republic of Macedonia. This paper provides a brief overview of PSS which can be found in today's literature and practice.

Conclusion and proposed measures: Based on the proposed guidelines for the development of PSS and by using software support, we can build a good PSS, which will improve the manner of planning and state institutions in the Republic of Macedonia will have economic and social benefits, particularly in the health sector.

Key words: GIS, modelling, Business model, PSS, M_ISEFHE_ESB, Health care sector.