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PHONIC POLLUTION AND STRATEGIC ACOUSTIC MAPPING WITH GEOGRAPHIC INFORMATION SYSTEMS

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Abstract

The phonic pollution has become a more serious problem in the recent years, especially because of traffic increase. This kind of pollution is generated by all kinds of means of transport. One of its peculiarities is the repercussion it has on people, unlike the other types of pollution, i.e.: water pollution, air pollution, soil pollution, which can affect, to a certain extent, the entire environment. The phonic pollution is considered to be the most widely spread type. The numerous surveys made on different samples in urban areas place phonic pollution, or generically called “noise”, at the top of the list of annoyances or disturbances. The main polluter is the road transport. Even since 2006, Romania has started to monitor phonic pollution as a result of road transport. The measure was taken in order to comply with the European Union regulations. The present paper presents acoustic strategic mapping using a Geographic Information System and GIS type database. There is a need to map noise to minimize the negative impact on the environment of the small vehicles, as well as of the heavy traffic.

Key words: Geographic Information System, noise, pollution

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