

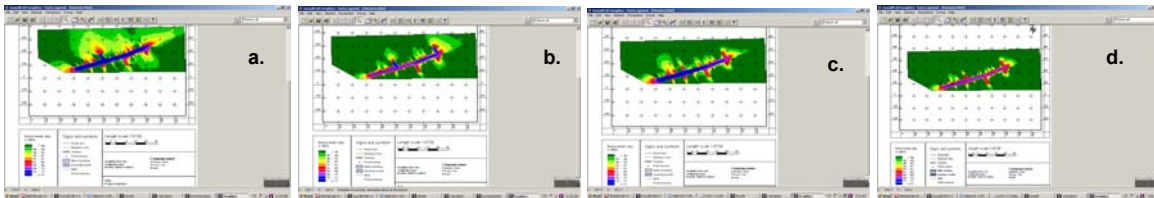
COMPARATIVE STUDY OF THE NOISE INDICATIVES IN PILOT ZONE “CENTRE” OF CLUJ-NAPOCA MUNICIPALITY

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Key Words: sound pollution, urban agglomeration, “noise map”, noise indicatives

The traffic of autovehicles in pilot zone of great city of Cluj-Napoca is presented in the work. The “Sound PLAN” programme pack is used to fulfill the sound map of the great city of Cluj-Napoca, its graphic representation is compared to the real measurement results. Present paper represents a part of research activity of T.U.C.N. researchers in studying for fulfilling of E.U. tasks of environment protection. A team formed with researchers of our Technical University with a mobile sonometer realized the noise measurements in the points along the three avenues in different time in the day or in the night.

Romanian Legislation (HG 321 / 2005) in concordance with European Directive 49 / 2002 gives the noise limits in urban agglomeration, and it need to be 65 in the day and 55 during the night. Looking in the graphical representations all the values are greater the limited values. This is the reason that in Cluj-Napoca Municipality was strongly necessity to make the “noise map”. They are made in 4 different situation having (a; c) or not (b; d) the hard traffic.



The made analyze of the five different situations presented in the last four figures, can be writing the followings: 1. The main noise sources that produce the greater then 80 dB are: motor-cycles, motor-bicycles, ATV-s, heavy autovehicles, buses, siren of emergency cars, horns of autovehicles; 2. The deviation of the hard traffic on the outside of the town made diminution of the noise traffic with about 8 dB; 3. The traffic acceleration zone can induce a plus about with 4 – 5 dB; 4. The great buildings situated near the road traffic induce the growth of the noise level.

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