

# Urban planning, road types and noise pollution

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Urban planning is a powerful way for mitigating noise levels in cities around the world. The location of centers of interest and the management of road traffic are two of the main variables. Since both are close related, improvement actions taken in one of these methods sometimes can lead to a worsening in the other. A greater knowledge of the urban characteristics of cities and their relationship with the main sound sources could bring benefits to the sound environment in future urban planning actions. In this work, an urbanistic and acoustic study of the city of Talca (Chile) was carried out with the purpose of determining the relations between both groups of variables. The results showed that a set of 6 urban variables, some similar to those selected in a previous study in European cities, explained a variability percentage of 63% in the noise level. © INTER-NOISE 2019 MADRID - 48th International Congress and Exhibition on Noise Control Engineering. All Rights Reserved.

Road traffic

Talca

Urban features