

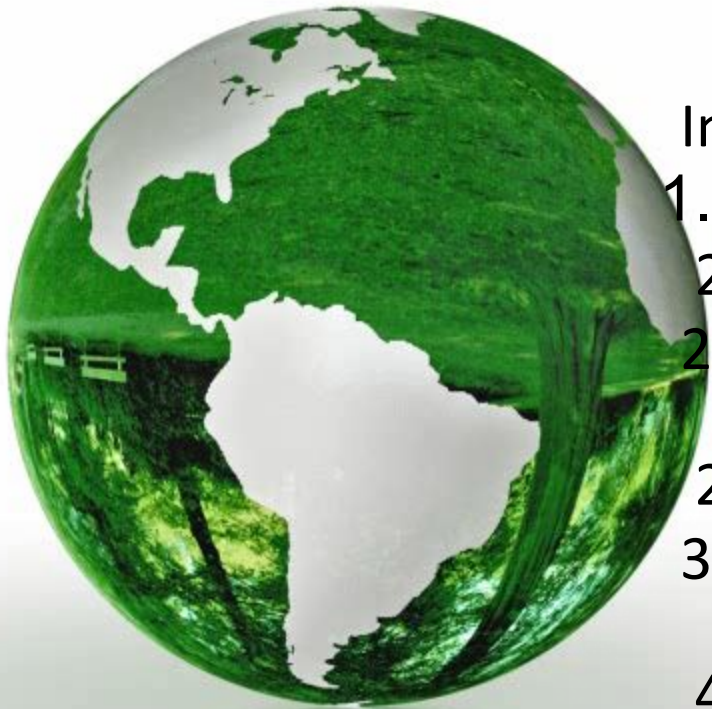
# Noise pollution by road



Completed:  
student group PO-24  
Shevchuk Dana

Ivano-Frankivsk -2017

# Plan



## Introduction

1. Ecology of sound Sound level meter
2. Experimental study
  - 2.1. Practical work "Study noise pollution" 2.2 Social survey
  - 2.3. Classification of noise Chapter
3. State of the problem reduce traffic noise Chapter
4. To limit the impact of road traffic noise Conclusion

# Introduction



Noise pollution constantly grows. Noise is sound waves perceived by people as unpleasant, disturbing or even causing soreness factor.



# Sound Environment



Environmental noise is one of the forms zagryazneniya environment. The increase in noise levels above natural negative effect per person: increased fatigue, reduced mental activity, there are neuroses.

# Sound Level Meter



To measure noise using sound level meter: the simplest case, it consists of an amplifier to the input of which is connected a measuring microphone, and to the output of the voltmeter widget in decibels.

# Sound Level Meter



However, our ear is quite complicated system, and at the entrance to the ear sound spectrum is quite different from what comes to the eardrum: the sounds of certain frequencies are amplified, and some, on the contrary, weakened. To take this into account, in the sound level meter, introduced the so-called A - Sound pressure level correction approximating characteristic sensitivity to the human ear.



# Variety of sound meter



# State the problem of reducing traffic noise



In the General case, methods to reduce traffic noise can be classified into the following three areas: reduction of noise at source of its origin, including the withdrawal from service of vehicles and changing the routes of traffic; noise reduction in the way of its dissemination; the use of noise perception of sound.



# State the problem of reducing traffic noise



Any attempt to regulate noise should begin with the establishment of the sources of this noise. Cars are the dominant source of intense and prolonged noise, which is any comparison do not go to any other. The noise generated by moving vehicles, is part of the noise of the traffic. In the General case, most noise is generated by heavy vehicles.

# Limiting the impact of road transport noise



Therefore, it is possible to achieve a substantial noise reduction for a significant number of people through the creation of feeder roads, specially designed for heavy traffic and ease tension of the transport network that permeates living quarters. The noise reduction of road transport also aims limiting the number of heavy goods vehicles in the transport stream.



# Conclusion



Noise must be fought. Therefore, the problem of effective noise isolation – very important. The ability to be quiet – an indicator of human culture and his good attitude towards others. Based on knowledge, it is possible to take measures for their own safety.



# Conclusion



- Recommendations: external walls must have sound insulation;
- double glazing significantly reduce the noise;
- plant trees between the house and the road;
- replace thin doors are more thorough; lay thick carpet with good padding.