

# Working Group 2: Calculation or Measurement?

## Work Group Report

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*Calculation or Measurement?*

## Introduction

- Hungary Michael Berndt experience 10 years in Ministry of Environment
- Croatia - Alen Stimercen 7 years experience in Ministry of Environment
- Germany Mr. Beckert– Protection Against Noise and electromagnetic fields
- Romania - Ionut Ionescu – 4 years experience
- Spain - Barcelona – implementation department 10 years of experience
- Hungary - Mr. Dombi - 10 years experience in acoustic measurement and vibration measurement
- Czech – Rudolf Cholava - Transport Research Centre – 10 years experience Report department – road traffic noise
- Luxemburg – Claude Bellot - 6 year experience
- Belgium – 4 years roads noise pollution tasks
- Hungary – Dr. Katalin Nagy – Budapest Urban Planning

## Presentation

- Mr. Berndt has presented information about main purposes of strategic noise mapping, and present a definition (data about noise existing situation, or predicting information). Also was presented main information about dates that has to be send to EC.
- Noise mapping should contains maps for each kind of noise source, persons affected and so on and of course that everything has to be finished with the action plans.
- Conclusions was that measurement is not possible in complete sense of word, is possible only in part.

## Experience

- Measurements are impossible form Mr. Berndt experience because a very large number of measurements are needed and the prediction can't be made.
- Belgium - calculation and after this measurement for verify the results.
- Croatia – establishing the right model and apply it in calculation. It can't be measure the noise because of the 3 mounts of winter. If the results of the control measurement is not in some limits had to be establish the cause of the errors and after this all the calculation are correlating.
- Germany – the models are known and they are just applied to different situation. Only calculation has been made. Measurement is very expensive so this costs are not justified. It's consider that the road surface is correct and differences are in limits of 3 dB.
- Spain – measurement is very important, calculation is use for traffic noise but all the rest of noise products but pedestrian traffic and other participant of traffic are not establishes.
- Hungary – only calculation, measurement only for basic data as industry and government establish some basic information that each company has to send to
- Hungary - propagation model but also some reference points for measurements difference between them around 1 dB ("calibration" points method).
- Check Republic – estimation information, calculation will be made with some measurements for "calibration". It's not a final decision.
- Luxemburg – not established yet but probably calculation.
- Croatia has presented a model of calculation with flat model or 3D model. Differences are very important for very exposed façade that are on a distance from source and also for numbers of inhabitants.

## Questions

- Have your country official method adopted?
  - Only Check republic, Germany and Hungary have own methods for calculation, but only Hungary has adopted official.
- Will transposition of END finished in time?
  - Hungary said that in Budapest will be finished the transposition in time because it starts 3 years ago, in Croatia will not be finish in time because there are necessary some administrative decisions.
  - Check republic has some delay but is expecting to respect the limit time.
  - Luxemburg – also delay but is expected to respect the dead line.
  - Belgium – some delays and unfortunately the limit time is expected to be overflow.
- Common methods or not ?
  - Belgium – why is necessary, we need only the results of reducing noise pollution.
  - Luxemburg – is necessary a common method.
  - Hungary – is not necessary.
  - Spain – is not possible because of folk custom. For example in Spain night life is very active.

## Conclusions

- Strategic maps can be made only by computing (calculation) is the conclusion of working group but some of participants think that this results (the method) must be verify with measurement.