

TEACHING MATERIAL GUIDANCE

1. Title of the material

Monitoring Centre for Road Safety and Accident Prevention in Krakow

<https://civitas.eu/content/measure-result-monitoring-centre-road-safety-and-accident-prevention-krakow>

2. Which section of the SUMP it is relevant to?

The material presents a method of evaluating the implementation of a road safety center and accident prevention. Material characteristics are in accordance with section 11.1.

3. Problem approached and content overview

The accidents data have been collected in Krakow for last 30 years. Although the data were obtained from Police Department by people analysing the data for Road Management Department, the deeper cooperation didn't exist. There was no interest in common actions and initiatives developing both obtaining and analysing accident data among interested key actors before Civitas measure. It was one of the main problems, to show the stakeholders, that joint action can result in success of different parties. Till the measure was discussed in public, every actor was concentrated on its own problems, not thinking about wider cooperation.

Until the project is implemented there was a system collecting road incidents and accidents data, which helped to define potential risks, but cooperation among stakeholders was not formalized. Analyzing of the data didn't include a spatial approach, because positioning of the accidents was not precise. Data were obtained from Police, public transport company and a few insurance companies. Advantage of the system was that data have been analyzed for more than 30 years using the same methodology.

The material presents a method of evaluating the implementation of a road safety center and accident prevention. The objective of this evaluated project is to set up a monitoring Centre for Road Safety and Accident Prevention. The functioning of the Centre is strongly connected to innovative methods of data collection, i.e. by using mobile equipment when registering road accidents. The development of methods for data collection enable a deeper and better analysis for the definition of potential "dangerous places".

New sources of data were integrated in the system and new stakeholders were involved in the data collecting process. Insurance companies are a very important source of data given the fact that the information collected by the Police refers only to very serious accidents, while that provided by insurance companies refers to a wider range of accidents. The real road safety conditions in Krakow can be obtained by analysing the whole situation, including different data from several sources.



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By combining enhanced accident data with using vector maps and GPS system, much deeper and fruitful spatial analysing is possible. That kind of post-processed information should improve road safety in Krakow.

This material does not provide detailed information about the center itself. It is only a report on the implementation of the project - a report evaluating the performance of the project. From the student's point of view, the most important part of the material concerns the project evaluation method. In particular, the selection of evaluation indicators and their importance.

The first key result is that correlation of number of accidents and number of injured clearly has decreasing tendency since 1977 which can be result of new safety equipments of the cars and more awareness from the drivers. It should be noticed that the different causes of any kind of decreasing in tendency of accidents after implementation cannot be separated from each other and decreasing in amount of accidents or injuries can be because of many cause. The second key result is proving that indicators "number of accidents" and "transport safety" are conceptually very similar; we can see this similarity in their description and available data as well. It seems that we can merge together the results.

4. Who could be interested in this material?

Students who are looking for:

- general information on activities related to the improvement of road safety
- the importance of road safety in the development of the SUMP
- methods of assessing the effectiveness of the implemented activities related to the improvement of safety.

5. What is worth mentioning as an innovative factor for the reader?

The innovative aspects of the project are:

- Use of new technology/ITS – Using mobile terminals (PDA), based on vector maps in collecting field data as well as its spatial analysis is an innovative approach in Road Safety activiteies in Krakow
- New organisational arrangements or relationships – a new system of data collection and analysis in Krakow will be enhanced and new stakeholders (especially those, who deal with "incidents data", like insurance companies) will be involved. The cooperation between stakeholders will be formalised by signing special agreements.

6. Limitations

This material does not provide detailed information about the center itself. It is only a report on the implementation of the project - a report evaluating the performance of the project. The material describes the concept and implementation process of the security management center to a very limited extent. A student looking for more material in this area should analyze the main report on the implementation of the project.

