

# Lane control system Dürener Street / B 264 in Cologne

## **Project**

Macro-economic evaluation of the Lane control system Dürener Street / B 264 in the municipal area of Cologne

## **Time for processing**

from October 2005  
until April 2006

## **Customer**

City of Cologne - Lord Mayor  
Department for Roads and  
Traffic Engineering



## **Project description**

The Dürener Street in the course of the federal road B 264 in the municipal area of Cologne was extended to a three-lane road from Marsdorfer Street until the urban forest residential area in the first half of the year 2006. A lane control system shall be set up for the optimal utilisation of the three-lane section due to the considerable variations in traffic volume over the day and the changing main volume per direction as well as for an efficient and secure access and departure of events traffic of the sports park Müngersdorf with the Rhine Energy Stadium. Depending on the main volume per direction the lane control system is supposed to provide an improved accessibility of the Rhine Energy Stadium and to increase the capacity within the section for commuter traffic during peak hour traffic.

On the basis of the outline and implementation planning the traffic-related effects of the lane control system were analysed for two types of operation and the economic efficiency of the system was evaluated. The evaluation was carried out according to the standardised procedure of the Federal Transport Investment Plan 2003 (FTIP 2003), which was adapted to this specific question with regard to the traffic flow, type of day, time-variation curves and the considered benefit components.

## **Executed services**

- Determination of total traffic and freight traffic volumes
- Analysis of traffic flow and specific time-variation curves
- Adjustment of the evaluation procedure
- Comparative analysis of the results of different kinds of operation