



Multi-criteria traffic management (The Hague, Netherlands)

The Project:

The city authority of The Hague required an increase in the capacity of roads within an area of the city, which led to the development and application of a multi-criteria traffic management solution for an area of the municipality. The solution, which took 18 months to plan and 6 months to fully implement, is based on a dynamic traffic model that allows the optimisation of traffic throughput and pollutant/noise emissions. A well-tuned and designed function would allow implement such a solution and improve traffic management with multi-criteria objectives. Given that the scheme deals with multiple aspects (traffic and environment), the relevant departments of the city authority were greatly involved in the discussion and implementation of the scheme.



Current successes/problems

The results of the project thus far have been positive, showing reductions in both traffic and pollutant/noise emissions. Network travel time savings have been as high as 15%, with a CO₂ emissions reduction of 10%.

However, collecting synchronised data on traffic and environmental factors, and the calibration of the multi-criteria model took more time than previously anticipated. Nevertheless, the positive outcomes have convinced the authorities to upscale the solution to the entire municipality.