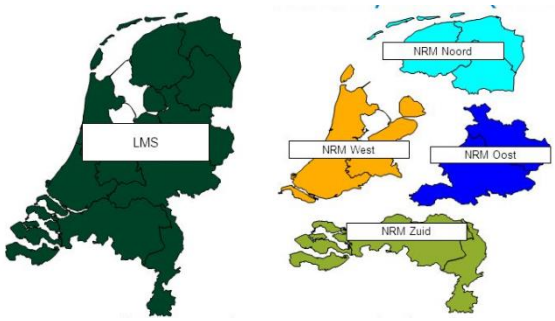
Matrix calibration in LMS/NRM

A unique opportunity to improve these national models



Introduction

In The Netherlands the "Nederlands Regionaal Model" (NRM) and "Landelijk Model Systeem" (LMS) are the most important models for the Dutch ministry for Infrastructure & Environment (I&M). The transport forecasts from these models form the basis for many policy decisions (e.g. building a new highway).
One of the components of both models is the "matrix calibration". In this step the matrix is adapted to observations, such as traffic counts.
During the calibration process several choices are made, such as: which counts are included, which screen lines are used, which weights (reliability) are given to counts, etc. Furthermore the calibration process consist of different steps: scaling of the start matrix, and an iterative process where in each step more counts are introduced.

Assignment

Your task will be to setup a structured research project to gain insight in the effect**s** of the above mentioned choices resulting in a report for Rijkswaterstaat about how matrix calibration is affected by these choices and an advice of best practice.

Internship

This research will take place at the office of Significance in The Haque. Daily supervisor will be dr.ir. H. van Grol (vanGrol@significance.nl).
Rijkswaterstaat is the main stakeholder in this project. Support will be given by dr.ir. D. Krstic-Joksimovic (dusica.krstic@rws.nl) who will provide the project description, all required background information, data and the neccessary software tools. Please note that a lot of the background information is in Dutch.

Supervision

For more information about this master project please contact either dr. ir. R. van Nes (R.vanNes@tudelft.nl) and/or prof.dr.ir. E. de Romph (E.deRomph@tudelft.nl)