



## Re-designing and introducing effective infrastructural measures to increase drivers' compliance with speed limit cut on urban roads from 50 to 30 km/h

### Problem description

More than 25% of the fatal crashes in the Netherlands have occurred on roads with a speed limit of 50 km/h in the past few years. As a result, many cities in the Netherlands are considering cutting the speed limit on their urban roads from 50 km/h to 30km/h to improve safety and as well reduce noise. However, merely putting up 30km/h signs will not suffice, since a 30km/h limit also needs to be credible. Therefore, the question that arises is how these roads can be re-designed, and which cost-effective measures can be introduced to have the new speed limit be credible and increase drivers' compliance.

### Assignment

- Review of the state-of-the-art with respect to speed limits on different urban road designs and their impact on drivers' speed behavior and traffic safety;
- Develop different re-design options and suggest cost-effective measures for these roads;
- Develop a selected number of scenarios in the driving simulator;
- Recruit participants and conduct the driving simulator study;
- Collect and analysis the data from the driving simulator to examine the impact of these different design alternatives/ suggested measures on drivers' behavior;
- Write a thesis report (possibly also a conference/ journal paper).

### Research group

Transport & Planning department

Thesis supervisor: Dr. ir Haneen Farah

Daily supervisor: Dr. ir Maria Salomons

### External support

Suitable internship possibilities can be investigated.

### Information

For more information contact: Haneen Farah ([H.Farah@tudelft.nl](mailto:H.Farah@tudelft.nl))