

Do you ever wonder whether to speed up, slow down, increase distance or change lane? In-vehicle driver support systems are available for staying in the lane, following another vehicle and dynamically choosing the best route. However, tactical driving tasks are poorly supported. Dynamic Lane Guidance is an in-vehicle driver support system aimed at filling this gap. It is based on advanced lane level traffic state estimation and prediction as well as location and time specific advice generation. It uses road based data as well as so-called floating car data. Advices can be displayed through a smart phone app and an in-vehicle terminal. The advanced Single Frequency Precise Point Positioning GPS technique provides the required lane level vehicle positioning. The project is conducted with Technolution, NXP and TomTom as part of the Brabant In-Car – III programme. This Transport Thursday presentation will outline the context of in-vehicle systems, describes the Dynamic Lane Guidance advice and the SF-PPP technique. An instrumented vehicle with the Dynamic Lane Guidance implementation will be on display. This Transport Thursday is organized together with the Geoscience and Remote Sensing (GRS) department of CiTG.