# Simulation-based impact assessment of autonomous vehicles at node- and link levels

Autonomous vehicles (AVs) might potentially change the future of our transportation system. These changes include travel behavior, congestion, safety, emissions, fuel consumption and infrastructure, however, their certain impacts are still quantitatively not confirmed. Researchers conduct simulation-based assessment to model driving behavior of AVs and to estimate the potential impacts of AVs on a large-scale. In many studies, the impacts have been reported throughout the network, however, there is a potential to conduct a study to evaluate the impacts of AVs on link and node-levels in a large-scale network. Hence, in this study, we aim to develop a platform to quantify the impacts of different AV penetration scenarios on link and node-levels.