

Autonomous vehicles services impact analysis

Arcadis developed a modelling tool to assess the potential of future automated taxi services and applied it to transport hubs in Greater Paris Region to evaluate their impact on the future Grand Paris metro project.

The development of autonomous driving technology can bring a significant change to the urban mobility market. Several private companies plan to develop autonomous on-demand taxi services that could compete with traditional transportation modes – both private and public.

This project aimed to develop an easy to use travel-time/travel cost model to evaluate the modal competition using only open source widely available data that will be used to identify the areas where such autonomous services are a complement to mass transit and where they are in competition. This will provide decision makers with objective elements to decide which regulation should be applied to these services.

While the model was developed for Paris data, it aims to be applicable to any city dataset. It can also be used for any form of an on-demand mobility service, and as a first approach to evaluate MaaS services potential.