



About the project

Recent leaps in technological development - artificial intelligence (AI), machine learning and data analytics - are driving the development of digital solutions for innovative mobility concepts and promise a wide range of possible applications, such as in the field of adaptive traffic flow control, multimodal traffic services, highly automated or autonomous driving. Based on these developments, the project “bergisch.smart: KI als Enabler der Mobilität von Morgen” was developed within the framework of the Digital Model Region Bergisches Städtedreieck. The main goals include developing sustainable solutions as opportunities for the region, proving prototypical feasibility and defining standards that can also serve as a blueprint for supra-regional application.

In addition to the new possibilities for mobility, the disruptive changes brought about by AI, machine learning and data analytics also create a need for action by the public administration of cities and regions in areas such as securing economic competitiveness, locational attractiveness for companies, as well as participation and public welfare for the population. bergisch.smart.mobility addresses these issues and develops tangible solutions in the Digital Model Region Bergisches Städtedreieck.

The project is executed by members of automotiveland.nrw e. V.. The tech company APTIV Services Deutschland GmbH, the University of Wuppertal, WSW mobil GmbH, Neue Effizienz GmbH, the Bergische Struktur- und Wirtschaftsförderungsgesellschaft mbH, and the cities of Wuppertal, Solingen and Remscheid have joined forces in this cluster initiative. Their goal is to create new products and services in light of the profound change in the automotive and mobility industry through this project to sustainably secure North Rhine-Westphalia as a location in the global competition.

bergisch.smart_mobility consists of four fields of action: 1) Smart Vehicle Architecture and On-demand Services, 2) Smart Driving in the Neighborhood, 3) Traffic Management through Artificial Intelligence, and 4) Rethinking Mobility. The focus is on the development of a new architecture for on-board electronics and electric in vehicles and new software solutions by APTIV Services Deutschland GmbH, as well as the introduction of an on-demand driving service by WSW mobil GmbH. This is supplemented by the testing of sensors for automated driving by the University of Wuppertal, including the development of artificial intelligence to control automated driving. Furthermore, new mobility solutions for urban neighborhoods are being developed by Bergische Struktur- und Wirtschaftsförderungsgesellschaft mbH. The Bergische Universität Wuppertal, with the support of Neue Effizienz GmbH, will also address overarching issues of social acceptance of new mobility solutions. In the project, the cities of Remscheid, Solingen and Wuppertal will work with the other project partners to further develop their existing solutions for managing mobility based on municipal geodata.

The project has a total volume of 24 million euros. Of this, the Ministry for Economic Affairs, Innovation, Digitalization and Energy is funding 13 million euros from the Digital Model Regions North Rhine-Westphalia program. The city triangle of Wuppertal, Remscheid and Solingen is one of five digital model regions in NRW.

Furthermore bergisch.smart_mobility is a flagship project of KI.NRW. With the umbrella brand "Flagships powered by KI.NRW", the competence platform Artificial Intelligence North Rhine-Westphalia supports projects funded by the state as AI lighthouse projects in order to support efficient technology transfer and close cooperation between SMEs, start-ups, universities, colleges and research institutions in NRW. Under the strategic patronage of KI.NRW, the competence platform provides communication support for the projects and positions NRW as an AI location by marketing the results at European level. The focus is on the sustainable transfer and further utilisation of the project results.