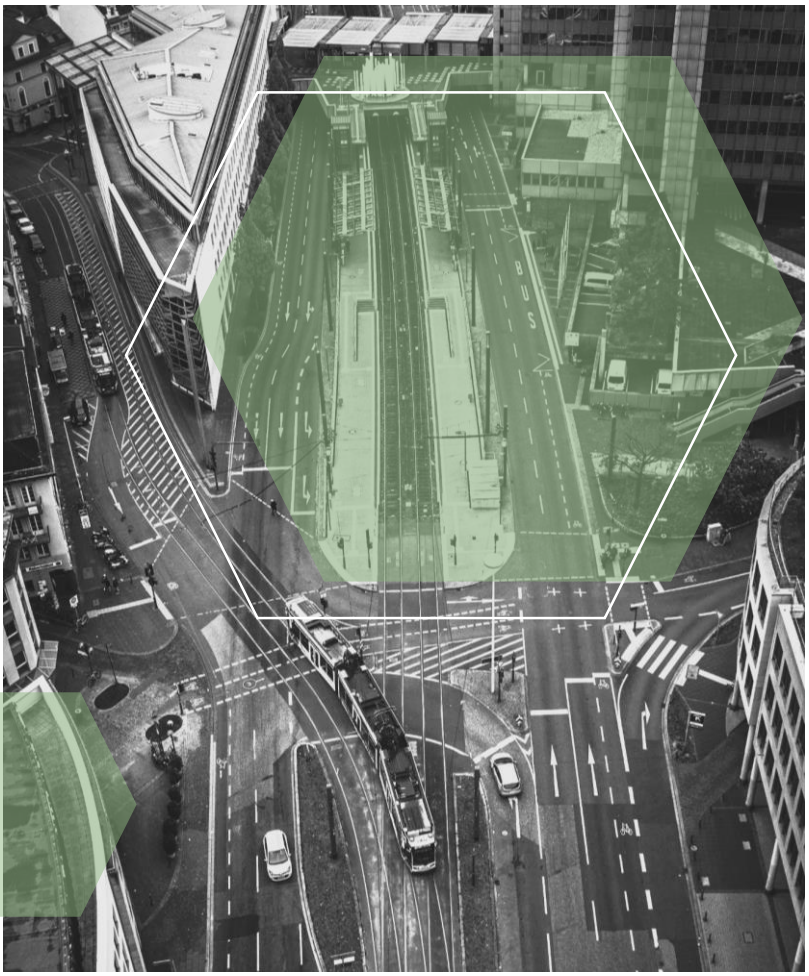
AIAMO
FOCUS

MOBILITY IN TRANSITION. AIAMO – THE ORIGINS AND THE OPPORTUNITIES



OVERVIEW

AIAMO – ARTIFICIAL INTELLIGENCE AND MOBILITY

MORE QUALITY OF LIFE THROUGH AI-CONTROLLED MOBILITY

Welcome to the first issue of AIAMOfocus! In this and the following episodes, we provide insight into the AIAMO research project.

We are facing major challenges in the use of mobility. Companies, cities and local authorities have new challenges to solve, especially when it comes to climate protection. But as we strive to make mobility more efficient and sustainable, we are coming up against obstacles. AIAMO was created to find answers to these challenges. It aims to bring together and further develop various mobility projects and services. AIAMO will collect and combine existing data, improve its accessibility and process it with the help of artificial intelligence (AI). This will enable processes and promote new services for mobility users in companies, cities and regions.

1. AIAMO: NEW WAYS FOR SUSTAINABLE MOBILITY

AIAMO was created to meet one of the most important challenges facing society: the compatibility of reliable mobility and sustainable environmental protection. Digital networking between transport companies and users of mobility services must meet new requirements. The flow of information about disruptions in local public transport and the use of vehicle data for traffic control can be facilitated by new specifications and solutions. For innovation drivers, especially small and medium-sized companies, the hurdles to accessing mobility data and using it for new solution concepts are high. There is a lack of adequate solutions for small municipalities and districts to integrate themselves cost-effectively and efficiently into the necessary network.

The AIAMO project partners are conducting research to develop AI-supported solutions for these current challenges in the mobility sector.

2. AIAMO BRINGS THE REGIONAL DATA TREASURE WITH AI-POWER IN MOBILITY SOLUTIONS

In AIAMO, the project partners are using pilot regions of various sizes to develop templates that can be widely used in cities and municipalities in the future. The aim is to leverage the existing wealth of data from the various stakeholders, make additional data available, process it using AI and make it available via a single point of data, the integration zone. AIAMO's integration zone is not a data room, but a system that uses artificial intelligence to make mobile data available for further processing. Thus, AIAMO integrates data from various data sources, such as data rooms. Algorithms, AI solutions and digital twins are used to for data processing in order to provide high-quality information.

The aim is to facilitate data exchange and cooperation between companies, cities and regions to promote synergy effects. This exchange lowers the barriers to the use and sharing of data and supports an open data culture.

The solutions envisioned in AIAMO address an urgent need in the ITS sector for the further development of mobility services. The results of this project can be decisive and form the basis for software applications for mobility services on a new scale and with better quality – for the benefit of all stakeholders, the users of mobility services and for the reduction of emissions and thus for more climate protection.

3. UPDATES ON THE PROJECT: PILOT REGIONS LEIPZIG AND LANDAU I. D. PFALZ

Several pilot regions of different sizes were selected in order to test AIAMO's technical innovations. These had been researched in theory and under real-life conditions to use the new test results to drive the project forward. The cities of Leipzig and Landau i. d. Pfalz are among these first pioneers. We are currently in talks with other cities and municipalities.

Bosch measuring location

Planned T-Systems measuring location

Here is a first look into the Leipzig pilot region. The two pictures show the planned and existing trade fair locations of our consortium partners Bosch (Grimmaischer Steinweg) and T-Systems (Theresienstraße). This technology and infrastructure will be used to collect environmentally relevant data in Leipzig in order to further improve mobility using AI.

With this real data from the test regions, weak points can be specifically identified and the systems continuously optimized. The results from Leipzig and the other pilot regions will make a significant contribution to the development of forward-looking, sustainable mobility solutions that can soon be implemented in other cities.

4. OUTLOOK: THE FUTURE OF MOBILITY THROUGH INSIGHTS FROM AIAMO

In the future of mobility, the findings from AIAMO will enable a new way of using mobility. AIAMO will transform mobility by developing AI-powered applications that promote changing business models with a focus on sustainability, safety and efficiency. The solutions developed in the project will help to create an open culture of data usage. The supporting use of AI will accelerate the transformation of mobility services in Germany by enabling changed and innovative solutions for mobility use. AIAMO aims to show cities and regions customized development paths for their evolving mobility services.

The next edition of AIAMOfocus will provide information about the AIAMO integration zone. For the first time, this forms a superordinate, scalable and neutral system for AI-based finding, exchanging and using data in the field of mobility.

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