

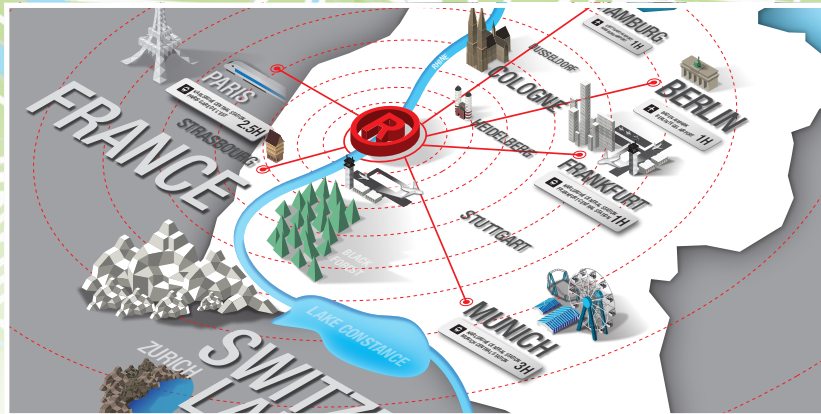


Karlsruhe Mobility Lab

powered by  Technologie
Region
Karlsruhe

Hub for intelligent urban and
regional mobility concepts

TechnologieRegion Karlsruhe GmbH



www.trk.de

Public authorities have joined forces with businesses, chambers of commerce and scientific institutions to form the TechnologieRegion Karlsruhe GmbH.

Together we are shaping the development of the region with the aim of strengthening and promoting it as a hub for business, science and innovation. Our focus is very much on the themes of mobility, energy, bioeconomy and IT. Projects are initiated on a real-lab scale through the strategic networking of partners from business, science and the public sector. The TechnologieRegion Karlsruhe GmbH acts as an innovation platform, takes over the steering of the different actors and contributes to co-financing.

Facts and figures

- Around 1.7 million people living within an area of 6,000 km²
- Working population of 675,000
- Around one-third of the labour force work in technology-intensive industries
- Economic output above the German average for many years¹⁾
- Regional GDP risen to more than € 60 billion in recent years

1) Includes only the figures for the German cities and districts of the Karlsruhe TechnologieRegion



Jochen Ehlgötz
Managing Director
TechnologieRegion
Karlsruhe GmbH

Through its partners, the Karlsruhe Mobility Lab powered by TechnologieRegion Karlsruhe GmbH (TRK) has developed into a globally recognised centre of intelligent concepts in urban and regional mobility. In a unique ecosystem, science, industry, the public sector and innovative transport companies work together on interdisciplinary approaches for sustainable and user-friendly mobility. In this unique climate of innovation, ideas for tomorrow's mobility are being created, put into practice, analysed and tested. The TRK paves the way for lighthouse projects and assists in the search for co-funding.

A major focus of the Karlsruhe Mobility Lab is on continuously developing local public transport and new mobility concepts. As a hub of research, the Karlsruhe region offers a unique density of mobility-related institutions. Together, all actors contribute to the mobility revolution worldwide.

On the following pages we proudly present the solutions for the future of mobility made in Karlsruhe to be experienced at our joint stand.

Yours sincerely
Jochen Ehlgötz


Karlsruhe Mobility Lab

powered by Karlsruhe TechnologyRegion

Hub for intelligent urban and regional mobility concepts




The Karlsruhe Mobility Lab powered by Karlsruhe TechnologyRegion is a globally recognized Centre for the development of intelligent concepts for the urban and regional mobility of the future. A major focus of its innovation efforts is on the further development of local public transport and the development of new mobility concepts - both essential for the mobility transition. The Karlsruhe Mobility Lab is a pioneer in sustainable mobility development.



In the unique ecosystem of the Karlsruhe TechnologyRegion, science, business, the public sector and innovative transport companies work together on interdisciplinary approaches. In the region, public transport and new mobility concepts are developed, put into practice, analyzed and tested with the citizens. This sense of community is a driver of the region's strong innovative power.

Politics and science are also focusing on this unique climate of innovation: the region is home to state institutions such as the Baden-Württemberg Institute for Sustainable Mobility and a location of the German Center for Future Mobility (DZM).



As a university and research location, the Karlsruhe TechnologyRegion offers a unique density of mobility-related research projects and institutions. In addition to science, some internationally leading companies such as INIT or PTV have their headquarters in the region and successfully spread mobility solutions "Made in the Karlsruhe TechnologyRegion" all over the world.

Much has already been achieved in the Karlsruhe Mobility Lab, e.g., a convenient mobility platform that integrates individually usable means of transport such as car and bike sharing as well as intermodal traffic control, via autonomous first/last mile services in on-demand traffic, cross-border mobility solutions, a large-scale network of cycle paths and innovative high-speed cycle routes, and last but not least the Karlsruhe Tram Train Model, which has attracted worldwide attention.

**Karlsruhe
Mobility Lab**

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Region
Karlsruhe**

IT-TRANS & Karlsruhe Mobility Lab



messe
karlsruhe

The IT-TRANS and Karlsruhe Mobility Lab stand for innovation, a strong community and forward-looking projects. Together, we bring successful concepts from the region to exhibitors from over 20 countries and bring innovations from the industry to the world.

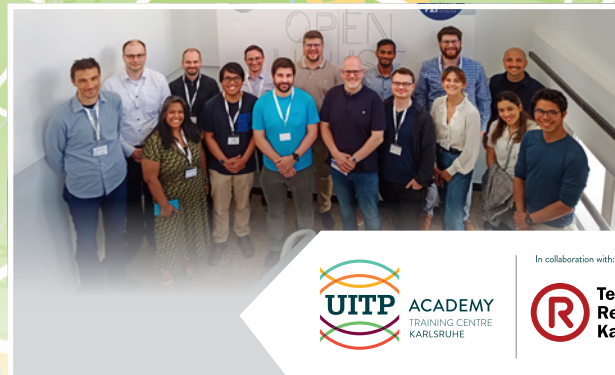
The IT-TRANS Congress also addresses future-oriented and exciting topics from the industry. In addition to AI, ticketing and data, it also covers cyber security, rural mobility and smart cities.

Take advantage of the numerous networking opportunities in addition to our trade fair. At our events, you will meet other experts, get to know key players in your industry and advance your business in a relaxed atmosphere.

Save the date for IT-TRANS 2028: 8 – 9 March 2028

www.it-trans.org/en | www.messe-karlsruhe.de/en

UITP Regional Training Centre Karlsruhe



In collaboration with:

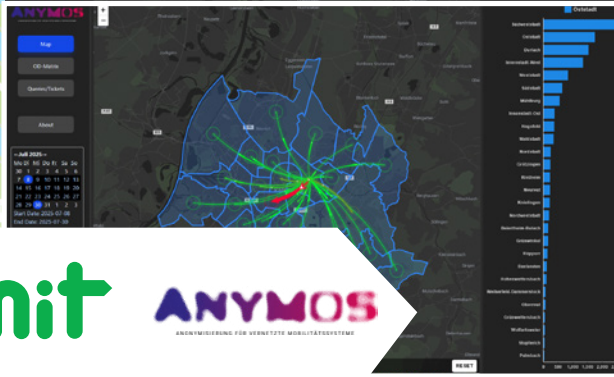


The UITP Regional Training Centre Karlsruhe, which is the result of a partnership between the International Association of Public Transport (UITP) and the Karlsruhe TechnologyRegion, offers training programs for public transport.

In 2026, the Karlsruhe TechnologyRegion will host UITP training programs on the topics of intelligent transport systems (ITS) and IT technologies for public transport operations, bus planning and scheduling as well as artificial intelligence (AI) in public transport.

www.uitp.org/trainings

ANYMOS - Making smart use of mobility data



©INIT



How can PT services be tailored to passenger needs?

In the ANYMOS project, we demonstrate how anonymized mobility data - from connection queries in passenger apps and ticket sales data to automatic passenger counting - can be used to derive precise insights into passenger flows, without compromising data privacy.

Together with KVV and FZI, we developed a solution that closes data gaps by intelligently merging existing data instead of relying on costly surveys. The result is dynamic origin-destination matrices that show where passengers start and end their journeys and provide a reliable basis for efficient, future-oriented public transport planning based on real passenger behavior.

Want to learn more? Visit INIT Group in Hall 1, Booth F5!
www.initse.com/anymos

FZI Research Center for Information Technology



At IT-TRANS, the FZI Research Center for Information Technology presents innovative demonstrators for the mobility of tomorrow. Trade visitors gain insights into current research work on autonomous and data-driven mobility systems. Visitors can experience how automated vehicles work by taking a ride in the autonomous FZI-Shuttle. The ANYMOS 2.0 research cluster shows how mobility data can be used for research while complying with data protection regulations. Using the interactive Digit4TAF demonstrator, visitors can design scenarios by adjusting factors such as weather and traffic, and experience how autonomous mobility is tested realistically in the digital twin of the "Test Area Autonomous Driving BW" real-world laboratory and prepared for real-world use.

www.fzi

KAMO: Karlsruhe Mobility High Performance Center

MobileCity app



The transition in mobility has many facets. Sustainability, individuality and independent travel must be harmonized and implemented with the technical possibilities of mechanical engineering, computer science and electrical engineering. Interdisciplinary solutions are required in order to develop demand-oriented mobility offers.

Since 2016, the institutions for research, education and transfer in Karlsruhe, Germany have been working together on innovative mobility solutions.



www.kamo.one



With the MobileCity app the KAMO: Karlsruhe Mobility High Performance Center network partners KIT and Fraunhofer, together with the game developer takomat, brought less accessible transport models on mobile devices with a handy user interface. The simple development of scenarios and broad impact indicators make MobileCity to a practical tool for urban strategy development and communication for cities and undertakings. A demonstrator for Karlsruhe is ready for testing on site.

The research project was awarded the German Mobility Prize 2023 in the category “Digital Transformation & Data Driven Mobility”.

www.isi.fraunhofer.de/mobilecitygame

KIT – Institute for Transport Studies

Mobility Portal



Discover how future mobility becomes efficient and sustainable. At the Institute for Transport Studies of the Karlsruhe Institute of Technology (KIT), interdisciplinary research meets innovative modeling to shape tomorrow's transportation systems. With a holistic view of the entire mobility sector, we analyze and forecast how new mobility solutions influence travel behavior. Using detailed surveys and advanced simulations, we assess the impacts of on-demand services or urban logistic systems through our agent-based travel demand model mobiTopp. This powerful tool enables realistic scenarios and reliable forecasts of future mobility. Join us to explore data-driven insights that support smarter, more sustainable transport decisions.

www.ifv.kit.edu | www.mobitopp.net



Free information services on multimodal mobility

The Mobility Portal run by the Karlsruhe TechnologyRegion and the City of Karlsruhe offers current information on mobility in the regions of Baden, Southern Palatinate and Northern Alsace. It serves as an essential component in the city's and the region's traffic information service and provides guidance on various questions regarding multimodal mobility, from car and cycle traffic to public transport.

mobil.trk.de



Karlsruher Verkehrsverbund GmbH (KVV)



The KVV is one of the largest public transport networks in southern Germany and the most important mobility provider within the Upper Rhine Valley, consisting of more than 20 transport companies. Albtal-Verkehrs-Gesellschaft (AVG) and Verkehrsbetriebe Karlsruhe (VBK) operate the tram and light rail within the KVV area. AVG is an elementary pillar of the “Karlsruhe Model” which is a tram-train system linking the inner-city tram network of the fan-shaped city with the rail lines in the region.

170 million passengers use this attractive public transport offers of the municipal association yearly, which was founded in 1994.

www.kvv.de

AFK – Automated TramTrain Operation in Karlsruhe



©Schneider

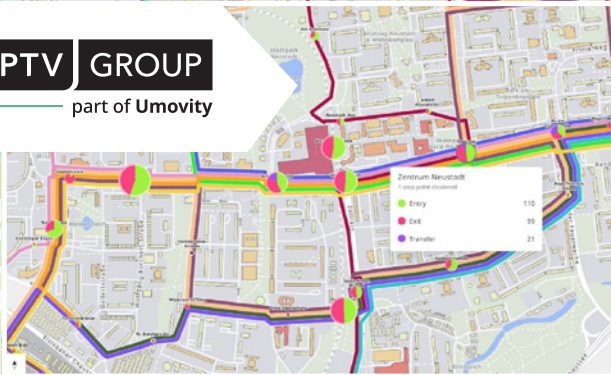


The S1/S11 light rail lines connect northern and southern Karlsruhe directly with the city centre and the main station. The service relies on frequent intervals, but staffing shortages increasingly affect reliability. To counter this, AVG is working on automating operations. The foundation is a modern, communication based train control system (CBTC), used for the first time on a German light rail line under EBO regulations. Step by step, partially to fully automated operation modes will be introduced, starting with suitable EBO sections. This will improve service stability without creating additional staffing needs.

www.avg.info

From Data Silos to Confident Decisions

PTV GROUP
part of Umovity



Whether for long-term strategies or daily operations, you need data to make confident decisions in public transport. With PTV technology, stakeholders gain reliable data, meaningful insights, and powerful demand & capacity forecasts for future-proof planning. All information is fully connected and never locked in silos. At the PTV booth, learn how to develop a long-term strategy for transit systems, even in times of tight budgets. Our cloud-based solutions are ready for immediate use: They have been designed for service planners to adjust routes, timetables and connections in just a few clicks – saving up to 50% of time and resources.

Please visit us at our stand F4 in Hall 1.

www.ptvgroup.com

regioKArgoTramTrain



regioKArgoTramTrain addresses the increasing demand for logistic and mobility services as well as transportation infrastructure while living spaces are becoming more limited, as a result of urbanization and increasing e-commerce.

A concept for dual use of rail infrastructure and vehicles for both, passenger and cargo transport, will be developed. New technological opportunities of automation and digitalization are addressed by automated stopping and starting at platforms based on Artificial Intelligence. A living lab to demonstrate the developed system will be carried out in 2027.



Co-funded by
the European Union



Baden-Württemberg

www.regioKArgoTramTrain.de

regiomove: Anything is possible



regio
move

The goal of regiomove: Connecting the existing public transportation network with new mobility services and the communities in the area. No matter if tram, train, bus, bike, e-scooter, on-demand-shuttle or car sharing. No matter if rural or urban.

The regional cross-linking is carried out using two fundamental components: The ports and the app. At regiomove ports people can easily connect their journey with tram, bus, on-demand-shuttles, shared bikes, e-scooters or cars. Such combined journeys are digitally connected via the regiomove app. With only one single account you can route, book and pay intermodal journeys. Furthermore, the ports may offer new service components, like digital information terminals, charging stations, locker boxes or bicycle service stations.

www.kvv.de/regiomove

URBANE



URBANE

The project URBANE – Upscaling Innovative Green Urban Logistics Solutions Through Multi-Actor Collaboration and Physical Internet – promotes the transition to effective, safe, and sustainable last-mile transport through four Lighthouse Living Labs in Helsinki, Bologna, Valladolid, and Thessaloniki. An Innovation Transferability Platform with digital twinning tools and a data-driven Impact Assessment Radar enables the adaptation and replication of these solutions in the Twinning Living Labs in Barcelona and Karlsruhe. The Follower Cities Aarhus, Antwerp, La Rochelle, Mechelen, Prague and Ravenna will then plan adoption actions by making use of the lessons learned from the URBANE Living Labs.

www.urbane-horizoneurope.eu



Technologie
Region
Karlsruhe

The partners of the Karlsruhe Mobility Lab



In collaboration with:

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