AUSTRIAN INSTITUTE E
OF TECHNOLOGY

Press release

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AIT PRESENTS INNOVATIVE SOLUTIONS FOR SUSTAINABLE MOBILITY IN BARCELONA

From 04 to 07 June 2023, AIT experts will present their developments and services in the field of sustainable mobility at the largest and international UITP Global Public Transport Summit in Barcelona. The AIT offers solutions for a sustainable design of the mobility system in four areas: the planning of multimodal mobility systems, mobility hubs, planning of energy demand and the optimisation of public transport. The exhibition of the AIT Austrian Institute of Technology will be located at stand 7A184 in hall 7 at the Summit.

Integrated planning of transport systems

On the road to climate neutrality, the transport sector still faces a massive transformation. AIT offers transport operators, for example, solutions for the integrated planning and evaluation of multimodal mobility systems with newly developed traffic simulation tools and IT-based optimisation methods. These enable the analysis and optimisation of transport systems, taking into account all modes of transport, in order to create more efficient and sustainable solutions. https://www.ait.ac.at/themen/integrated-digital-urban-planning

Design of efficient mobility hubs

Another focus is on the planning, evaluation and optimisation of mobility centres and stations. By using AIT modelling and simulation tools, passenger flows, traffic flows and infrastructure layouts are analysed and optimised to design and operate efficient and sustainable transport facilities. Among other things, AIT will present its latest developments in the simulation of passenger flows to increase safety, comfort and efficiency in vehicles, buildings and public spaces. https://www.ait.ac.at/loesungen/analysis-and-optimization-of-pedestrian-flows

Optimisation of public transport

Decarbonisation also means avoiding unnecessary journeys. In this context, AIT presents in-house developed algorithms for the optimisation of public transport systems and the development of "Mobility as a Service" (MaaS) concepts. These algorithms enable precise demand forecasting, route planning, accessibility analysis, impact analysis and location assessment as well as the optimisation of transport networks. https://www.ait.ac.at/themen/integrated-transport-optimisation

Modelling the energy demand

An important lever for efficiency increases is the modelling of energy demand in public transport. In addition, electricity and green hydrogen will in the future be a clean and

efficient alternative to conventional fuels in public transport. The AIT experts will present their expertise in the energy-network-optimised location planning of e-charging infrastructure at the UITP Global Public Transport Summit in Barcelona. https://www.ait.ac.at/imps

AIT Center for Energy

At the AIT Center for Energy, around 270 employees are researching solutions for the sustainable energy supply of tomorrow under the direction of Wolfgang Hribernik. The many years of experience and scientific excellence of the AIT experts as well as the high-quality laboratory infrastructure and global networking offer companies innovative and applied research services and thus a clear competitive advantage in this future market. The Center for Energy's portfolio of topics is oriented towards three central systems: sustainable public energy supply, decarbonisation of industrial processes and plants, and innovative technologies and solutions for urban resilience (buildings, cities).
More information about the centre: https://www.ait.ac.at/energy

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