

SWARCO MYCITY

YOUR MODULAR URBAN TRAFFIC MANAGEMENT SYSTEM

TRAFFIC MANAGEMENT PLATFORM

MyCity is SWARCO's new modular Traffic Management Platform for whole cities, no matter the size.

This continuously growing platform allows you to work from a single sign-on system, with various user rights and lets you add new features at any time. Start small and add required functionalities when needed to improve your city traffic flow and safety. Reduce service costs and manage your city in the better way.

MyCity is a new modular Traffic Management Platform that allows cities to improve mobility for their citizens throughout the entire journey.

Mobility does not stop at the city boundary or when changing mode of transportation. A commuter's everyday journey goes on from the moment he leaves the door at home until arriving at his destination. As cities are fighting pollution and congestions the ability to support multimodality is rapidly becoming an ever increasing and important part of a sustainable transport system.

Today it is not unusual that a journey often includes several modes of transport, and the experiences that comes along, including driving their private car to a station, finding a good place to park, switching to public transport and finally jumping on a e-scooter to reach their final goal.

Maintaining the big picture of traffic demand and supply, based on data from different sources and various modes of transport is key for making the travel experience safer, quicker and more environmentally sound.



MYCITY - A FLEXIBLE AND INTEGRATED SOLUTION

Traditionally SWARCO has delivered domain-specific solutions within the field of urban traffic, highways, parking and public transport. MyCity is now bringing this domain specific know-how together in a holistic platform approach.

MyCity is an open platform that can be extended to the individual customer's needs. A city can start small with an "as a Service" business model and add required functionalities when needed. Various legacy systems, data sources and information systems can be easily integrated. For the larger cities we offer full blown tailored on-prem solutions where various sources of data are integrated to determine meaningful information on the current and future traffic situation and determine an optimization strategy.



Available on-premise or as a Cloud-Based solution operated by SWARCO 24/7.

BENEFITS FOR THE CITIES

MAKE BEST USE OF EXISTING INFRASTRUCTURE

Modern planning tools and cloud-based solutions create the possibility to improve existing infrastructure instead of building more roads. This helps reduce your costs.

REDUCE CONGESTION & POLLUTION

Meet your city's environmental goals by reducing traffic congestion and prioritizing public transport and/or cyclists!

IMPROVE TRAFFIC INFORMATION & CREATE A SMOOTHER TRAFFIC FLOW

Plan and evaluate your traffic and make decisions based on facts rather than theories!

IMPROVE TRAFFIC SAFETY

Improve traffic safety by using surveillance, well-functioning equipment and modern tools such as emergency vehicle priority!

■ MODERN ARCHITECTURE

MyCity is built on a state of the art software architecture utilizing a micro-service approach and enabling platform functionalities such as dynamic scaling, 0-downtime deployment, high availability and continuous deployment. All of the above for cloud and on-premise systems depending on what setup is needed.

■ MYCITY AS INTEGRATION PLATFORM

MyCity acts as an integration platform for a broad range of devices and systems. Ranging from various traffic light controller standards like NTCIP, OCIT or STCIP to variable message signs, parking houses, CCTVs, counting stations, detectors, air quality sensors and more. Integration of external central systems can be realized over standard interfaces such as Datex2 or OCIT-C as well as through dedicated interfaces leveraging technologies such as REST or MQTT.

■ RESPONSIVE & CUSTOMIZABLE DESIGN

The MyCity front-end is designed with a very open and extendable approach in mind. It allows easy addition of new functions and features as well as a fluid experience switching between device types such as desktop computers, smart phones and tablets. The front-end runs fully as a light weight solution in the browser, leaving the heavy lifting to the back-end services for the most part. This allows a flexible customization and continuous agile improvements of the user experience. The improvement of the usability of the systems for our users is an absolute focal point for us. This also includes the rationalization concept that allows individual users to personalize their experience through personal dashboards and configurations that can be tailored fully towards their specific needs.

■ DATA MANAGEMENT AND ANALYTICS

MyCity is built for the management of small and large amounts of data that can be collected from a variety of detectors and sensors. By evaluating data from various sources our customers

gets great overview of their city and can base their decisions on facts. The platform take care of managing these assets including back-ups, exports, privacy and security. We also add increasing reporting and analytics functionalities based on our customer needs.

■ ADAPTIVE TRAFFIC CONTROL & NETWORK ADAPTIVE TRAFFIC CONTROL

MyCity includes solutions for simple and complex strategy management ranging up to full model based forecast calculation of expected traffic volume and adaptive value adjustment and program changes based on the existing and proven solutions available in the SWARCO portfolio. The user can make complex program switching, e.g. based on new data sources such as floating car data or environmental data to meet their city goals.

■ C-ITS READY

MyCity includes functions that connect existing infrastructure to vehicles and road users, such as prioritization of public transport, bikes or emergency vehicles. The existing road infrastructure need to be used in the most efficient way possible due to high construction costs and time consumption. C-ITS is needed for growing cities to create a good traffic flow and using MyCity data features within V2X/V2I this can be made.

■ TRAFFIC ENGINEERING TOOLS

MyCity include integration of Schlothauer & Wauer engineering tools for planning and evaluating intersections, testing traffic-actuated controls and simulating traffic flow. It can be used to plan, evaluate and optimize traffic controls for a single intersection, for progressive signal system and for roadwork.

■ SINGLE SIGN-ON

MyCity acts as a single sign-on provider for all SWARCO solutions going forward. These capabilities can be extended to integrate also with locally available Active Directory or LDAP services or even replace them.

MAIN PLATFORM BENEFITS

FUTURE-READY

Micro-service based technology built on a brand-new platform allowing an on-premise hosting or a cloud-based solution operated by SWARCO 24/7.

OPEN

An open platform allowing the integration of infrastructure components such as traffic signals, parking devices, VMS and more, from SWARCO or other partners.

SCALABLE

A growing platform built in a modern and scalable way, lets you add new features at any time. Project and customer-specific requirements can be implemented.