

# SWARCO MYCITY

The Smart City Solution for  
Urban Mobility Management

## *The Platform*



## Platform Overview

MyCity is an modular platform designed to deliver solutions to the most pressing challenges in multimodal mobility by tightly integrating common transportation services via an ultra-modern cloud computing infrastructure. This continuously growing platform allows you to work from a single sign-on system and add new features at any time. An agency can start small with select services and add functionalities when needed. Existing Intelligent Transportation Solutions (ITS), external data sources and other systems can be easily integrated.

This Smart City eco-system utilizes data from different sources and various modes of transportation is key to maintaining the big picture of transportation demands in order to create a safer, more reliable and environmentally sustainable transportation network.

## Benefits

- Reduce overall costs by combining existing infrastructure and with modern planning tools and cloud-based solutions
- Improve congestion and air quality, meeting your city's environmental goals and prioritizing public transportation and/or cyclists
- Plan, evaluate traffic trends, and make informed decisions based on data from all modes of transportation
- Proactively identify and manage safety issues

## Platform Description

MyCity is a cloud-based ITS Platform that enables connectivity between Smart City applications and promotes efficiency and balance across all modes of transportation.

MyCity can be deployed in the cloud or on-premise per agency preference. As a cloud solution, MyCity enables McCain to automatically update software, eliminating disruptions to user access and reducing the burden of agency staff and IT Departments. MyCity requires less investment to deploy and maintain equipment, servers, and software.

Accessible from any internet device, including mobile technology, this platform transforms user experience with interactive push notifications and reporting. In compliance with industry standards and protocols, the micro-service architecture and APIs of MyCity reduce the effort involved in system integration.

As cybersecurity threats are prevalent, agency security is our top priority. MyCity follows strict IT security protocols and standards (ISO 27001) to ensure secure authorization and authentication.



# MyCity - Platform

## Features

### 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, zero-downtime and continuous deployment. Developed to take advantage of the accessibility and scalability of cloud networks, MyCity can also be deployed on agency owned, on-premise infrastructure.

### Traffic Engineering Tools

MyCity includes integration of 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 operations for a single intersection or roadway network.

### Single Sign-On

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

### Responsive & Customizable User Interface

The MyCity user interface 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 user interface runs as a light-weight solution in the browser, leaving most of the heavy lifting to the back-end services. This allows flexible customization and continuous agile improvements of the user experience. The improvement of the usability of the systems is a top priority for our team. This allows individual users to personalize their experience through customized dashboards and configurations that can be tailored to their specific needs.

### Traffic Management & Control

MyCity includes solutions for simple and complex traffic management ranging from management of essential signal timing parameters to full model based forecasts which can activate autonomous and/or user defined operational strategies. The user can configure the system to automatically improve operations based on new data sources such as floating car data or environmental data.

### Integration Platform

MyCity acts as an integration platform for a broad range of devices and systems including traffic light controllers, variable message signs, parking garages, CCTVs, counting stations, detectors, air quality sensors, and more. Integration of external central systems can be realized over standard interfaces such as NTICP or custom communication protocols.

### Connected Vehicle & Infrastructure Ready

MyCity includes functions that connect existing infrastructure to vehicles and road users, such as the prioritization of public transportation, bicycles or emergency vehicles. C-ITS is needed for growing cities to create a good traffic flow and using MyCity data features within V2X/V2I, this is possible.

### Data Management & Analytics

MyCity is built for the management of small and large amounts of data that can be collected from a variety of detectors sensors and external systems. By evaluating data from various sources, transportation agencies receive a great overview of system performance and can base their decisions on facts. The platform manages back-ups, exports, privacy, and security of data. Increased reporting and analytics functionalities are available based on customer needs.



#### Future Ready

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



#### Open Architecture

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



#### Scalable

A growing platform built in a modern and scalable way, lets you add new features at any time meeting the specific needs of projects and customers.