From Traffic Monitoring to the Smart City

Over the years, cities have become denser as available living space diminishes. People are using more resources and infrastructure is forever growing and changing. The importance of efficiency and optimizing traffic in cities has never been more crucial.

Smart mobility is a key factor in improving extreme traffic congestion, poor air quality and lifestyles in general. Existing networked systems that are able to monitor traffic could be re-purposed to positively impact these areas.
Smart Mobility and Traffic Infrastructure

Today’s traffic planning is focused on using the existing densely populated areas more efficiently to create better living conditions. Distributing traffic volume is also beneficial to the environment. VITRONIC’s technical solutions are designed to optimize mobility, ensure greater safety for those on the road, and reduce pollution resulting from vehicles.

The available technical solutions can measure excessive speeds, define vehicle classes, capture red light violations, implement passage prohibitions, and ensure the correct use of lanes. Additionally, they gather supplementary information about the configuration of the traffic flow, which helps to reroute vehicles to avoid traffic jams.

VITRONIC solutions also assist in toll collection on specific roads or stretches of roads, known as urban tolling. Passage prohibition for specific vehicle classes and types are also a part of smart city concepts and can be enforced with modern technology.

Traffic Volume Captured Digitally

Traffic volume data can be captured in real time with VITRONIC solutions and then transferred directly to the control office. Traffic monitoring systems capture the flow of traffic in different lanes and in both driving directions.

One area of application in traffic monitoring in this context is the interfacing with other traffic control systems, which includes communicating traffic congestion and offering alternative routes. The data can then be used to implement measures that support traffic control. These include, for example, reducing speeds, collecting tolls for specific roads, and employing entrance barriers.

Over 30 Years of Experience in Traffic Technology

VITRONIC traffic monitoring technology is distinguished by decades of innovation and vision. It’s therefore logical that – as a perfect solution for the industry – it grows as the requirements of our customers grow. Fixed, semi-fixed, and mobile systems are key components in the digitization of traffic area management in terms of mobility, safety, and environmental protection. Municipalities are not only using their existing infrastructures to monitor traffic. They are also using them to implement smart city concepts. This means that investing in traffic safety pays for itself immediately in two ways.