Nedap's MOOV ensures safe regulation of traffic flows and seamless vehicle access experience in Arnhem

How do you keep the historic city center accessible and livable while the number of vehicles increases? The city of Arnhem faced this challenge and chose Nedap to regulate vehicle flows and provide a seamless vehicle access experience in its city center. Nedap's MOOV City Access software was used to ensure that vehicle access in the city center can be regulated easily. The combination with Nedap's vehicle identification solutions ensures authorized vehicles and drivers can access the city in a safe and seamless way. The project was carried out in collaboration with experienced MOOV partner ST&D Apeldoorn.

Historical city of Arnhem

The regional capital Arnhem is home to some 150,000 inhabitants and is located in the southeast of the Netherlands. Arnhem is an old city with a lot of history and various parts of the city are a protected cityscape. Because of the historical center, the cultural sights and a wide range of stores and entertainment facilities, it is also an attractive city for tourists.

Limited accessibility for a livable city center

Due to urbanization, more and more people are moving to the city. Not only the population is growing, but the number of vehicles in the city center is also increasing. This is also the case in the historical city of Arnhem. To keep their city center traffic and pedestrian friendly, the municipality of Arnhem was looking for a solution to regulate vehicle access to the city center and ensure only authorized vehicles can enter the city center. By limiting traffic flows, the narrow streets in the historic center of Arnhem turned into an attractive and safe public place for pedestrians and cyclists, creating a more livable city.

Seamless vehicle access experience

The municipality of Arnhem has chosen Nedap for its MOOV City Access platform combined with its advanced solutions for automatic vehicle identification based on long-range RFID (Radiofrequency Identification) and ANPR (Automatic Number Plate Recognition) technology.

With the implementation of RFID readers and ANPR cameras, vehicles can be identified from a long distance, ensuring automated and safe vehicle throughput. Nedap's long-range RFID solution TRANSIT is used to ensure that local residents, emergency vehicles, licensed taxis and municipal services have easy access to the city center without compromising safety. Authorized vehicles are equipped with a RFID tag will have fast access at vehicle entrances without the need to stop.

The all-in-one license plate camera ANPR Lumo grants access to vehicles based on their license plate number. License plate recognition is a perfect solution for specific user groups or situations in which vehicles require access temporarily or incidentally to the city center. For example, retail delivery trucks can be given access at predefined locations, assigned days and time zones, regulating vehicle access to the city by reason.

Easy regulation of vehicle flows

The mentioned access control systems are based on Nedap's MOOV City Access platform. MOOV City Access is a cloud based platform, specifically developed for the management of vehicle access in urban environments. MOOV makes it possible to remotely monitor and manage video and intercom systems, vehicle identification solutions and traffic elements such as ground loops, traffic lights and dynamic vehicle barriers. This cloud platform is used in the city center of Arnhem to control vehicle access in specific zones. With this, Arnhem ensures that only authorized vehicles can enter these zones if they have permission to do so.

"By choosing and implementing Nedap's MOOV City Access platform in combination with Nedap's license plate recognition solution, we have taken a major step in the further digitization of our city access in Arnhem".
Hans ten Barge – Chain Director at Municipality of Arnhem

Certified MOOV partner

The solution is supplied and installed by Nedap's partner ST&D Apeldoorn B.V.. Being a certified MOOV partner for many years, ST&D brings a wealth of experience in combination with high quality products. The company has designed, delivered and installed the bollards that are used in Arnhem and integrated the peripherals such as ground loops, traffic lights and Nedap's readers. Next to the hardware installation ST&D helped the municipality setup the MOOV software and provides ongoing support to make sure the system is always up and running.

"ST&D has had good experiences with the Nedap MOOV platform for many years now. The system is scalable and therefore ready for the management of an emission-free center. And also practical; the various bollard installations can be managed from one central location. In addition, it was simply pleasant to work with a municipal team that is very future-oriented, but does not lose the practical point of view!".
Eric Evers, Sales Engineer at ST&D Apeldoorn

Safe and attractive city center

With the implementation of the MOOV City Access solution, people and vehicles keep moving, while safety levels are optimized. This means that the historic city center of Arnhem is preserved. The city is becoming more attractive and accessible and unsafe situations have been minimized.

"It was very inspiring to learn how the forward thinking officials at the Arnhem municipality see the future of their city, and we are thrilled that our solution helps them take a big step in realizing that vision."
Daniël Nijkamp, Proposition Manager MOOV at Nedap