SECURING THE FLOW OF VEHICLES

MOBILITY SOLUTIONS

VEHICLE DETECTION

VEHICLE ACCESS CONTROL
SECURING THE FLOW

MILLIONS OF PEOPLE AND MILLIONS OF CARS

Cities are growing rapidly. In two decades, three quarters of the world’s population will be living in a city. Most of these people will drive a car. In some countries there are already more vehicles than humans. Cities, airports, universities, industrial estates: most urban environments are expected to be smart about mobility. How can you keep residents, visitors, employees and their cars moving without the need to rebuild the entire infrastructure?

SECURING THE FLOW, TODAY

Technology may provide a part of the answer. That is, only if there is sufficient focus on the most popular mode of transport: the car. Although self-driving vehicles are becoming reality, it is likely that it will take a few decades before this technology will help to solve the traffic flow challenges we face today.

Nedap Mobility Solutions specializes in technological solutions to optimize the flow of vehicles in urban environments. It is our ambition to deliver effective solutions based on modern technology that help to solve the mobility problems of today.
Residents and visitors that drive around looking for a parking bay are a common phenomenon in any city, campus or airport. Supply and demand of parking bays often do not seem to be aligned. Although most of the time there is sufficient parking capacity, motorists have difficulties finding the available spaces. Especially on-street parking capacity is often difficult to locate.

Nedap’s SENSIT system consists of wireless operating parking sensors that detect the presence of a car in real-time. SENSIT provides reliable, real-time data for parking guidance, to limit traffic congestion, alerting, to prevent abuse of parking spaces and reporting, to optimize parking utilization.

**PARKING GUIDANCE**
Reducing search traffic by guiding drivers to empty bays with signs, mobile apps or in-car services.

**ENFORCEMENT**
Improve parking enforcement efficiency by monitoring your parking occupancy in real-time. Through software and smartphone applications, the SENSIT platform notifies parking enforcers with all details of the cars in overstay.

**RETAIL PARKING**
Improve the shopping experience without the need to invest capital in an unnecessary increase of parking capacity. Offer customers highly convenient parking by eliminating the hassle of finding an available parking space.
DUAL TECHNOLOGY SENSORS

Nedap offers a variety of wireless SENSIT sensors for a variety of situations. Sensors are drilled into the floor or glued to the surface. Nedap’s SENSIT sensors use both magnetic as well as infrared sensing technologies for optimum accuracy. SENSIT runs on batteries that can last up to ten years.
RELAY NODES AND DATA COLLECTOR

SENSIT consists of some peripherals to optimize performance of the wireless SENSIT network. Where wireless Relay Nodes speed up the network and make it more resilient, Nedap’s Data Collector acts as the gateway between the wireless SENSIT network and the cloud based server.

SENSIT SOFTWARE

Our cloud based SENSIT server collects all parking information. The server software ensures the integrity of the network traffic and the collected data. Through SOAP, REST and REST hooks, it enables easy integration with any 3rd party system using well documented, comprehensive interfaces.

E- PARKING LICENSE

SENSIT does not only detect presence of a car. It can also identify the vehicle. Parking bays for designated users (handicapped people, VIP’s, licensed residents, etc.) can be protected against abuse. The electronic license is available as smartphone application and as a physical device.
YOU ARE IN CONTROL

Many urban environments suffer from lack of vehicle access control: too much traffic in the already overpopulated city center, pedestrians that feel unsafe in shopping zones, business estates that have difficulties managing their parking capacity. MOOV is the most advanced system for vehicle access control in the traffic and parking industry. It was designed with three applications in mind:

CITY ACCESS CONTROL

Most modern cities suffer from increasing amounts of traffic in city centers and shopping zones. We enable cities to get back in control of their traffic flow by equipping the entrances to a specified city zone with MOOV vehicle access control equipment and physical barriers. Provide access only to authorized vehicles and only at the times they really need access. While suppliers are granted access only within certain timeframes using their license plates, emergency vehicles always have swift access using heavy duty RFID tags. Optimize the traffic flow and create a safer city center for residents and visitors.

MULTI-TENANT BUSINESS ESTATES

Business parks are an integral part of many cities and often have their own parking capacity shared by multiple tenants. MOOV makes sure that only the authorized employees and visitors get access and guarantees that every tenant can utilize their fair share of the parking capacity.

ADVANCE PARKING BOOKING

MOOV helps parking operators to maximize the utilization of their car parks by seamlessly linking their parking access control system to (3rd party) pre-booking systems. While people that have booked a parking space will get easy access, the operator remains in full control of the parking.
MOOV VMC

The MOOV VMC (Vehicle Management Controller) is a device that connects all local equipment. Barriers, RFID readers, ANPR cameras, traffic lights, intercom; everything that is needed locally to build a smart gate for vehicles. It also connects to the MOOV Cloud Server to get updated on new authorizations and to store events. The controller is able to run standalone, even when the connection is lost, the vehicle entrance will remain operational.

IDENTIFICATION SYSTEMS

MOOV easily connects to all our identification systems. Nedap is a long-term market leading manufacturer of long-range RFID readers (TRANSIT, uPASS), has great ANPR readers and also has a promising new identification platform (MACE) that uses mobile phones as a security credential container. Your clients, residents or visitors easily get access with Bluetooth, NFC or QR-codes.

MOOV SOFTWARE

The cloud based MOOV Software manages the MOOV VMC (Lite) for vehicle access. It is available at any time and from anywhere by authorized users. The user-friendly interface makes it very easy to announce exemptions, create time schedules and manage access rights.

DEDICATED VEHICLE ACCESS CONTROL
ABOUT NEDAP IDENTIFICATION SYSTEMS

Nedap Identification Systems specializes in technology that helps identify vehicles and people in a user friendly and convenient way. Our systems are used in security, parking and traffic installations. Nedap Mobility Solutions is part of Nedap Identification Systems and specializes in traffic flow optimization in Smart Cities, campuses and airports. Our systems are used to manage vehicle access points and optimize the use of the on street parking capacity.

Nedap Identification Systems has offices in the Netherlands, Dubai, Italy, Spain, Singapore and the USA. Our global partner network is spread across all continents.

TECHNOLOGY THAT MATTERS

Nedap Identification Systems is part of Nedap N.V. A stock listed multinational, founded in 1929. City accessibility in a time of continuous population growth. Quality healthcare in the face of shrinking budgets. Security requirements in a world with increasing risks. These are just a few of the issues that Nedap people work on each day. We believe that technology can provide an important contribution to resolve major issues.

Read more at www.nedap.com