Intelligent City
Parking Solutions
Advanced traffic management for your smart city

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Transform your city from the street up

Big cities face big traffic concerns. Population increases and a rise in commuters lead to serious traffic chaos, misuse of parking resources, the inability to properly detect parking violators and enforce parking restrictions, and emissions issues.

The solution: by taking a strategic approach to traffic management, you can minimize the influx of cars that are in the city when parking spaces are at a low by guiding drivers to parking vacancies in real-time.

Designed with your city’s needs in mind, each Intelligent City Parking Solution is unique. We’ll analyze your streets, your parking possibilities, and your daily traffic situation to come up with an innovative plan to reduce traffic on your streets and increase your city’s profitability. Our modular parking solutions are based on one-of-a-kind overhead radars, complemented by ground sensors and cameras as necessary.

The real-time data accumulated by these devices is paired with statistical parking data to create the most accurate traffic predictions possible, transforming your city through innovation. Tap into statistical and real-time information on parking vacancies to reduce road traffic and improve the overall travel experience within the city, on demand.
Redefine smart parking with future-driven features

The future has arrived. Imagine having the ability to make necessary traffic improvements immediately, eradicating potential hazards proactively, before commuters even sense a problem. Intelligent City Parking has made this a reality.

Know your city like never before
Future-proof your city with a system that redirects travelers simply and effectively. Instant access to real-time traffic conditions enables the automatic redirecting of commuters, whether it be to alternative means of transport, less demanded parking areas, or to the closest available parking spot.

Higher efficiency for all stakeholders
Parking infrastructures, city authorities, and parking operators benefit from optimum profitability as all spaces are adequately used and enforcement becomes efficient. Operators can utilize real-time “smart city” data, improving calculation and prediction capabilities for various time periods. If no parking is available, commuters are conveniently rerouted to public transport, clean mobility concepts, and/or improved traffic control. The more detailed the travel data, the more accurate the prediction capabilities.

Manage your city intelligently
Enforcement has never been this simple. Track violations as they occur using historic and real-time parking analytics. Receive data-based recommendations on how to optimize regulation and prices. And keep tabs on historic parameters, including day of the week, price, and additional regulations, flexibly making changes as needed for a given target.

Move through the city effortlessly
Intelligent City Parking Solutions redefine the way drivers experience the city. Intelligent, user-friendly apps reduce both search time for parking spaces and stress, and result in a significant savings in money and time spent. The platform provides navigation that’s clear and concise, allowing commuters to focus on the traffic situation. The result: increased safety and transparency. And of course, a significant reduction in driving distance, by up to 4.5 km each day.
Reap benefits both on the street and off

Intelligent City Parking Solutions reduce congestion and emissions and improve traffic safety, while promoting a higher quality of life for residents and increasing city attractiveness.

**Intermodal travel management**
Intelligent City Parking Solutions allow cities to know and communicate the occupancy/availability of parking spaces in often crowded inner cities, and possibly also at Park & Ride Stations, enabling the relay of intermodal travel information.

**Data-based business models**
Intelligent City Parking allows retailers to design retail-sponsored parking programs, increasing their ability to offer value-added services based on parking data. Ultimately, that results in previously unseen chances and opportunities.

**Location-based services**
The front-end of Intelligent City Parking, or the actual app, serves as a platform for location-based information and can provide value-added services and advertisements from city authorities, retailers, media, and more.

**Environmental pricing models**
Intelligent City Parking enables cities to implement dynamic pricing strategies supporting environmental and traffic goals, thus improving the quality of life in cities.

**City Planning**
Intelligent City Parking provides a data basis for city planning and development of future traffic strategies for certain districts.

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**Intermodal travel management made simple**
Imagine, the parking spots in your inner city have reached 95% occupancy. Intelligent City Parking Solutions allow you to communicate this occupancy rate to commuters, then direct them to the closest available Park & Ride Station, where they can book tickets and make use of the automatic pay function in one simple tool.
Intelligent City Parking Solutions set the benchmark for smart parking

The open, scalable system currently stands alone in its ability to offer 100% coverage of any given area. And the ability to pair this software with additional smart city apps makes it the perfect modular solution for the increasingly smart demands facing today’s cities. Furthermore, the unique detection technology supports additional use cases, meaning that parking, traffic management, and safety are just the beginning of what can be done with Intelligent City Parking Solutions.

The Intelligent City Parking Advantage

**Municipal Benefits**

**Simplified Parking Analysis and Regulation**

- More efficient guidance of traffic (maximizing profits and use of resources)
- Comply with emissions requirements
- Improve the attractiveness and safeness of the city
- Establish a seamless smart city with various municipal traffic applications based on real-time data

**Operator Benefits**

**Real-time statistics for improved revenues**

- Reduce overhead costs / increase profits
- Provide value-adding services
- Improve utilization
- Enhance calculation and prediction capabilities with real-time data

**Driver Benefits**

**Easy trip planning and routing**

- Save time and costs for parking and commutes
- Make commuting more comfortable
- Simplify parking for both residents and e-cars
- Convenient apps available for portable devices
Custom-configure your smart city with innovative technology

Every city faces challenges. For many, it’s weather and privacy concerns. Camera-free radar detection can be a highly effective alternative, especially when installed as an overhead solution.

Radar is robust, safe, and effective
Our technology has proven to be the ideal detection solution for changing light and weather conditions, in any climate. And the high availability of the hardware has been demonstrated in various traffic management applications. Vehicle size and dimensions can be easily identified without cameras, avoiding any infringement on the privacy rights of your citizens.

Other types of sensor and sensor technologies can also be integrated, enabling it to be optimally adjusted to suit the individual requirements of a particular setting (e.g. by incorporating other detection technologies where the view is restricted by trees or shade).

Fool-proof data network
Link your traffic solution with various municipal applications to simplify access to real-time data and improve the accuracy of calculations and predictions, city-wide.

Overhead solutions form the backbone
Enforce parking violations in illegal parking zones and prevent violations which might otherwise worsen traffic flow on streets and in bike or bus lanes, rerouting drivers to suitable spaces. Overhead radar solutions can be configured to do it all and extended reach enables the monitoring of several spots and the adjacent area, making it a highly cost-efficient method of keeping abreast of what’s going on in your city.

Keep initial investment costs to a minimum through integration into existing street lights, streamlining installation and power costs. And since they are less visible to passersby, they are rarely subject to incidental damage or vandalism, minimizing the need for excessive maintenance.
Future-proof your city with Intelligent City Parking

A well-thought-out sensor network forms a solid foundation for smart city applications. Our team of experts will help you to get your city ready for the future, with technology that detects not only vehicles but also other stationary and moving objects.

**Designed to adapt to your growing city**
Adjust traffic management based on real-time reports from the surrounding environment, altering everything from street or public transport lighting to urban planning as conditions change. And simple software updates can significantly expand the capabilities of your existing hardware, allowing it to measure the speed, size, and direction of pedestrians and cyclists within the sensor range.

Gateways and local computing capacities form the basis for an extensive communication network via which sensors send data to the control center, enabling other smart city applications.

**An investment that practically pays for itself**
Cross-finance your smart city via more efficient enforcement and improved payment morale. And optimize the usage of your infrastructure, resulting in additional cost improvements through related smart city applications.
The information in this document contains general descriptions of the technical options available. The required features should therefore be specified in each individual case at the time of closing the contract. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action and integrate each component into a holistic, state-of-the-art security concept. Third-party products that may be in use should also be considered.