

Transforming the conventional
parking system



Future of Hassle Free Parking

Searching for a parking space has become a routine activity as it is calculated that nearly 30% of urban congestion is created by drivers searching for parking spaces, this increase traffic congestion and inconvenience for the drivers thus the need for a Smart Parking systems are inevitable. Smart parking technologies help in optimizing use of parking space, efficient parking operations and simplifies traffic flow.

Smart Parking Systems typically collects the information about available parking spaces in a particular geographic area and processes it in real-time to direct vehicles at available spaces. Using low-cost sensors, real-time data processing, and automated mobile-enabled payment system allows the people to book parking in advance or direct vehicle to available space. When integrated as a system, It permits the cities to carefully manage their parking supply, minimize the traffic problems in urban areas and control illegal parking.

With Infinium's next generation smart parking solution; customers can get real time information to optimize parking space usage, improve the efficiency of parking operations and help traffic flow on the roads. Our solution also encompasses a complete suite of services such as online payments, parking time notifications, Pre Booking and GPS navigation of available parking slot, real time view of fluctuating parking rates based on demand and even car searching functionalities for very large lots. It can greatly benefit both the user and the owner.



Key Solutions

Parking Space Management

- Provides motorists with real-time parking lots availability information with the help of battery operated low power consuming ground sensors installed in the centre of every parking space for detecting parked vehicles.
- The system collects information on parking lot availabilities from the establishments and displays them on the electronic information panels and mobile/web applications.
- LED display mounted at entry point will provide the no. of occupied and vacant slots to the user and facilitate parking guidance.
- With the real-time information of rates and available slots, motorists would be able to make an informed decision on which car park to use.

On Street Parking Management

The On-Street parking areas are open for public to park vehicles along the curb of the streets.

- Battery operated ground sensors give real time alert for parking space occupancy.
- Facilities like parking reservation and direction to parking spot helps reduce congestion and queuing on the street.
- The payment for this parking can be done by kiosk or online through mobile app or website.

Parking Reservation System

Drivers will be able to reserve their slot ahead of time, this could prove convenient for both the customers and the governing authorities.

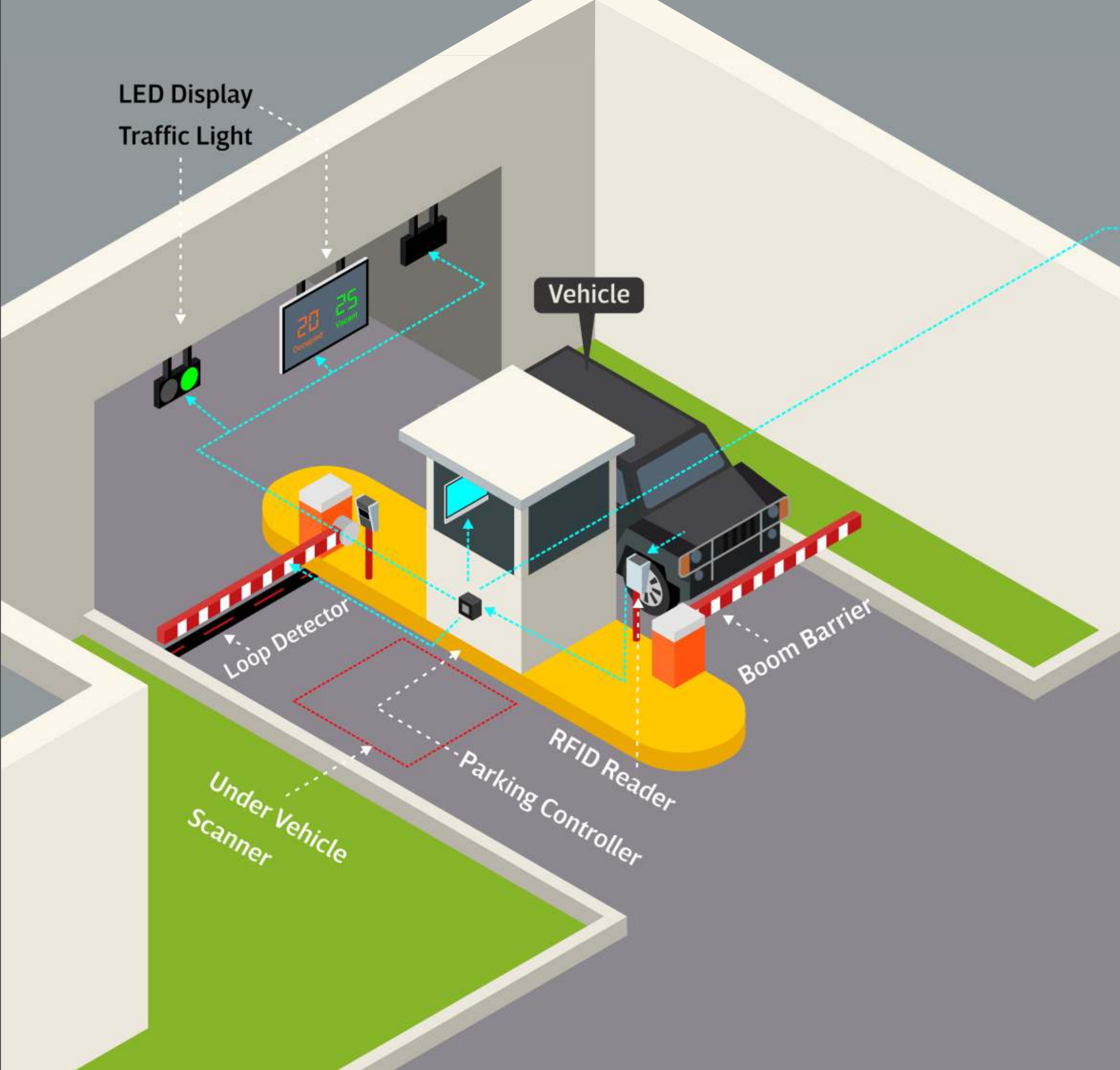
- The system enables drivers to reserve a parking space in a specific time in a slot they desire along with real time dynamic parking rate information.
- Customers can book a parking slot through mobile app or web based application.
- Reservations can be done on currently available as well as on spots expected to be vacant in the future.
- Option to alter or cancel existing reservations to accommodate unexpected changes in travel plans.
- Assign a unique confirmation number to each new reservation to facilitate their tracking.
- Convenient electronic payment option (credit cards, debit cards, smart card account, PayPal account, etc.).
- Benefits for returning customers and advance payment options.

Off Street Parking-Entry/Exit Authentication Management System

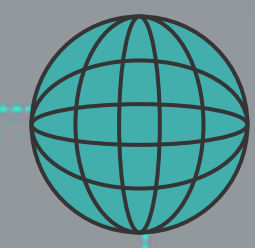
A public/private parking facility provided at a separate place away from the streets can be easily converted to smart parking facility.

- A vehicle scanner consisting set of cameras for video surveillance of the vehicle at entry/exit gate.
- RFID reader will read the RFID tag placed on the windshield (4wheeler) or the RFID card (2wheeler) at a boom barrier and parking controller will authenticate the tag and command boom barrier to grant access (open up).
- RFID reader and boom barrier will be installed at the Exit point of the parking compound and work in similar manner as the components installed at the entry point.

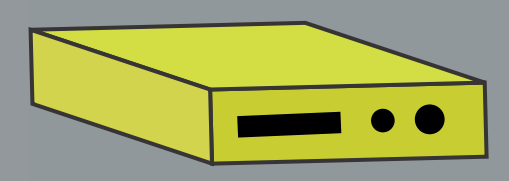




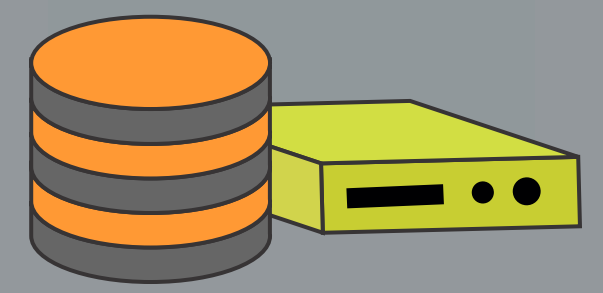
Network



Application Server



Database Server



Parking Enforcement

Surveillance makes parking enforcement and citation easy for enforcement agency.

- Alerts are generated for parking violations.
- Notification for unpaid parking activities.

Dynamic Parking Rates

- Owners and operators can base their parking pricing on demand.
- It enables owners to generate maximum market-rate revenue from their parking assets.
- To help operators better manage their facilities, software can be customized to continuously monitor occupancy levels and automatically modify pricing in real time. If occupancy rises above a certain level, the price rises accordingly. If it falls, the price drops.

Smart Parking Payment System

The smart parking payment system is implemented in the effort to overcome the limitation of the conventional payment methods by revamping the payment method with latest technologies.

• Smart Card Payment/Prepayment code

- Mounter HF reader verifies Card/unique mobile code & opens the boom barrier for parking.
- Calculate total time of vehicle in parking area, deduct money as per business standard and open barrier for exit.

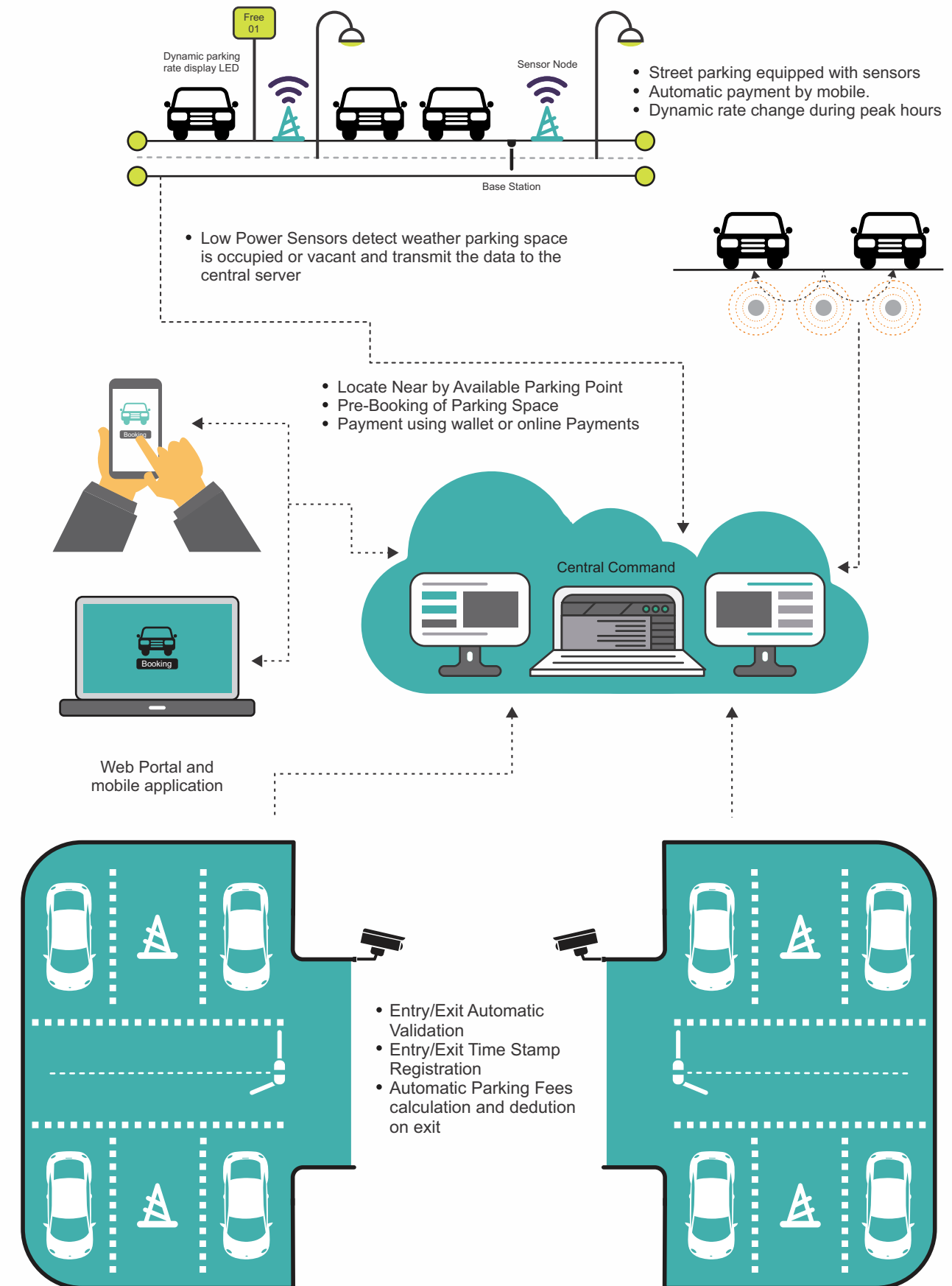
• Handheld Ticketing Machine

Handheld parking ticket machines, which will print the exact fare after calculating the time spent by a car at the parking lot.

- At the entry it records incoming vehicle number time and date of entry, type of vehicle, and name of operator on a ticket.
- At the exit pay and park machine automatically calculates the amount to be paid by calculating total parking duration of vehicle.

Smartphone Application and Software

- This is an application installed in a smart phone allows driver to reserve/book a parking slot based on calendar, view real time rates fluctuating according to date and time, navigates the drivers to the available parking spaces and make online payments.



Benefits:

- Parking management system is an effective method of monitoring and handling parking areas with low manpower.
- Mobile and web application helps customers to reserve parking slot in advance and navigation helps in finding space fast and easily.
- Parking enforcement becomes easy.
- More revenue can be generated with better and more efficient parking management.
- Online payment allows users to make easy payment and queuing at the exit gate can be reduced.
- Online reservation for parking gives users surety for their parking space.
- Parking demand can be managed with dynamic parking rates.
- Application displays clear, simple and easy direction to allocated parking slot, reduces congestion and accidents
- Customer satisfaction level increases by saving their time, effort and cost in parking their vehicles
- Historic data analysis and reports helps in future planning for profitable business

Differentiators

Subject Matter Expertise

The team brings extensive research and application principles to guide clients in proper implementation and execution of the project. Providing the best technological solutions help organizations achieve their business objectives.

Innovation

Constant effort of bringing new technologies by anticipating future consumer behavior and risk factors helps in making future – safe investment and realization time. Experience working at different levels ensures that the solution is well integrated.

Broad Project Experience

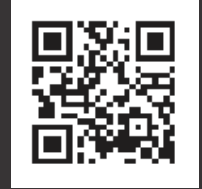
Infinium has completed numerous projects across various geographic areas; the understanding of various business needs along with policy risks and compliance factors help the projects to run on scheduled time and avoid disruptions.

Product Fitment


Infinium offers a clearly differentiated product that is secure, flexible, compliant, robust and scalable. The services offered with the customization options guarantees a strong fit with the business model.


Certifications





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