Challenges for Urban Cities

Parking remains a challenge for urban cities. Motorists face increasing frustration in search of limited parking space which contributes to traffic congestion and higher carbon emission. Majority of the world’s car park operators and building owners rely on conventional car park systems such as RFID, ticketing or manual fee collection, which are intrusive, less efficient and more expensive to operate and maintain.

Proven Track Record

ST Engineering has the extensive experience and domain knowledge to successfully manage more than 250,000 car park lots across 250 cities. In addition, we are providing car park infrastructure maintenance services for more than 2000 parking devices involving 100,000 parking lots, for a major emirate in the United Arab Emirates. We are also deploying smart and providing car park management services for operators and building owners.

Parking remains a challenge for urban cities. Motorists face increasing frustration in search of limited parking space which contributes to traffic congestion and higher carbon emission.
S'Park Smart Car Park Solutions provide cloud-based car park management that centralises all car park operations and maintenance on a single platform. It offers operators an overview of their portfolio’s revenue collection and occupancy records, and manages multiple operators’ car park systems and apps.

S’Park leverages Automatic Number Plate Recognition (ANPR) and mobile payment apps to provide non-intrusive, efficient and seamless parking services to motorists while offering optimised cost savings and enhanced operating efficiency for car park operators and building owners.

Key Benefits

- **Reduce Operational and Maintenance Costs**
  - Reduce reliance on manpower
  - Cashless payment to replace ticketing and parking meters

- **Increase Revenue**
  - Dynamic or premium pricing
  - Data analytics for effective and targeted enforcement

- **Provide Actionable Insights**
  - Optimise car park lot allocation based on drivers’ parking behaviour (seasonal, handicap accessible, limited time and Electric Vehicle parking)
  - Leverage occupancy trends and profiling to enhance city planning, advertisement and tenant mix

- **Enhance Parking Experience**
  - Seamless payment
  - Easy search for parking lot availability and rates
  - Secure parking space with advance booking function

Applications

- Property Developers, Building Owners, Parking Operators and Municipals
  - Business Platform
    - Dashboard overview
    - Data analysis tools
    - Real-time information of car park status
    - Report generation
    - Approval of season parking application
    - Reporting of maintenance fault
    - Unifies operations of multiple car parks

- Mobile Application
  - iOS and Android compatible
  - Real-time location of parking space
  - Travel route to destination
  - Promotion code for redemption
  - Season parking application
  - Cashless payment
  - Overview of billing history
  - Motorist feedback

- Visitor Management System
  - Manages resident and visitor records
  - Manages taxis'/logistics vehicles' entry and exit records
  - Car park management as-a-service

Optional Features

- Report generation
- Occupancy trend
- Business intelligence

For Car Park Owners and Operators

- **Smart Car Park Management Platform**
  - Unified management system
  - Operations dashboard for preventive and predictive maintenance
  - Simplified parking tariff management

- **Access Control Solutions**
  - Integrated barrier system
  - ANPR system (98% accuracy)
  - Visitor management system

- **Parking Guidance System**
  - Ground based magnetic sensor
  - Ultrasonic sensor
  - Video based sensor

For Motorists

- **Mobile Application**
  - Available parking search and guidance
  - Season parking application
  - Digital payment and billing history
Smart Car Park Solution

S'Park Smart Car Park Solution offers cloud-based car park management that centralises all car park operations and maintenance on a single platform. It offers operators an overview of their portfolio’s revenue collection and occupancy records, and manages multiple operators’ car park systems and apps.

S’Park leverages Automatic Number Plate Recognition (ANPR) and mobile payment apps to provide non-intrusive, efficient and seamless parking services to motorists while offering optimised cost savings and enhanced operating efficiency for car park operators and building owners.

Key Benefits

- **Reduce Operational and Maintenance Costs**
  - Reduce reliance on manpower
  - Cashless payment to replace ticketing and parking meters

- **Increase Revenue**
  - Dynamic or premium pricing
  - Data analytics for effective and targeted enforcement

- **Provide Actionable Insights**
  - Optimise car park lot allocation based on drivers’ parking behaviour (seasonal, handicapped accessible, limited time and Electric Vehicle parking)
  - Leverage occupancy trends and profiling to enhance city planning, advertisement and tenant mix

- **Enhance Parking Experience**
  - Seamless payment
  - Easy search for parking lot availability and rates
  - Secure parking space with advance booking function

Key Features:

- Barcode-less (Barrier-less) Car Park
- Car Park Computer and Automatic Number Plate Recognition (ANPR) System
- Visitor Management System
- Ground based magnetic sensor
- Ultrasonic sensor
- Video based sensor

Solutions

For Car Park Owners and Operators

- **Smart Car Park Management Platform**
  - Unified management system
  - Operations dashboard for preventive and predictive maintenance
  - Simplified parking tariff management

- **Access Control Solutions**
  - Integrated barrier system
  - ANPR system (98% accuracy)
  - Visitor management system

- **Parking Guidance System**
  - Ground based magnetic sensor
  - Ultrasonic sensor
  - Video based sensor

For Motorists

- **Mobile Application**
  - Available parking search and guidance
  - Season parking application
  - Digital payment and billing history

Applications

- **Property Developers, Building Owners, Parking Operators and Municipals**
  - BUSINESS PLATFORM
    - Dashboard overview
    - Data analysis tools
    - Real-time information of car park status
    - Report generation
    - Approval of season parking application
    - Reporting of maintenance fault
    - Unifies operations of multiple car parks

- **MOBILE APPLICATION**
  - iOS and Android compatible
  - Real-time location of parking space
  - Travel route to destination
  - Promotion code for redemption
  - Season parking application
  - Cashless payment
  - Overview of billing history
  - Motorist feedback

- **VISITOR MANAGEMENT SYSTEM**
  - Dashboard overview
  - Data analysis tools
  - Real-time information of car park status
  - Report generation
  - Approval of season parking application
  - Reporting of maintenance fault
  - Unifies operations of multiple car parks

Optional Features

- Report generation
- Occupancy trend
- Business intelligence

*Subject to environmental conditions.*
Parking remains a challenge for urban cities. Motorists face increasing frustration in search of limited parking space which contributes to traffic congestion and higher carbon emissions. Majority of the world’s car park operators and building owners rely on conventional car park systems such as RFID, ticketing or manual fee collection, which are intrusive, less efficient and more expensive to operate and maintain.

Proven Track Record
ST Engineering has the extensive experience and domain knowledge to successfully manage more than 200,000 car parks across 250 car parks. In addition, we are providing car park infrastructure maintenance services to more than 3,000 parking lots including 100,000 parking lots, for a major emirate in the United Arab Emirates. We are also deploying trials and providing car park management services for operators and building owners.
Parking remains a challenge for urban cities. Motorists face increasing frustration in search of limited parking space which contributes to traffic congestion and higher carbon emission. Majority of the world’s car park operators and building owners rely on conventional car park systems such as RFID, ticketing or manual fee collection, which are intrusive, less efficient and more expensive to operate and maintain.

Proven Track Record

ST Engineering has the extensive experience and domain knowledge to successfully manage more than 200,000 car park lots across 250 car parks. In addition, we are providing car park infrastructure maintenance services to more than 2000 parking devices involving 100,000 parking lots, for a major emirate in the United Arab Emirates. We are also deploying trials and providing car park management services for operators and building owners.

Challenges for Urban Cities