

PMS : Parking Management System  
VPGS : Outdoor Guidance display / Hybrid Lane  
Auto Payment Station with touchless screen  
E-Wallet integration

# NEXPA SYSTEM SM IKEA Philippines CASE STUDY

# Project background



## <Introduction of SM IKEA, Philippines>

IKEA was founded in 1953 and was originally a mail-order catalog business in Älmhult, Sweden in Europe. Today, IKEA is a global home furnishing brand that brings affordability, design, and comfort to people all over the world. And IKEA Philippines Mall is one of the biggest furniture malls in Pasay area. SM IKEA wanted to deploy a high-end parking solution using state-of-the-art technology and selected NEXPA's smart parking solution.

## <Challenges>

The main purpose of this project is;

- ① PMS: Parking Management System
- ② VPGS: Outdoor Guidance Display, Hybrid Lane
- ③ Auto Pay Station with touchless screen: Advance and Exit payment
- ④ E-Wallet integration (Various type of e-wallet)

# Project Solutions

Operate based on ticket dispenser (generate QR Code into ticket) solution. And also able to manage Gate Side Synchronization/Controlling System or generate revenue related report through our Web-PMS software.

PMS

KIOSK

Various payment method integration with G-cash, RFID Card and BPI. (G-cash, BPI - Using QR code)

<Requirement>  
Smart  
Parking System

Integrate various type of e-wallet such as Wechat pay, Ali pay, Grab pay and etc.

E-Wallet  
integration

Hybrid Lane

Use both exit/entry lanes as Hybrid lane, to prevent traffic congestion at specific time.

# NEXPA Proposed Solution Features

SMART

01

NEXPA's solution guides drivers through the entire parking process, from entry to exit.

State-of-the-art  
TECHINOLGY

02

NEXPA's solution uses state-of-the-art devices developed with our proprietary technology.

AUTOMATIC

03

By using Boom gate and Auto payment station, all process will be automatic.

EXPANDABILITY

04

Based on various PMS/ PGS such as cashless and non-stop system, we can show the excellence of our products to the rest of the world.

Customer  
Satisfaction

05

NEXPA's solution is easy to run for the parking lot operator and is convenient for the parking lot visitors.

# E-Wallet integration

*Various type of E-wallet*



- The E-wallet is the definitive untapped technology in the parking industry today. The E-wallet is powerful, first and foremost, because it directly contributes to a healthier bottom line by creating significant and measurable merchant processing savings for parking operators. These savings can be in the millions for some larger parking operations.
- Customers who visited in the SM KIEA can experience a various type of e-wallet such as WeChat pay, Ali pay, Grab pay and etc.

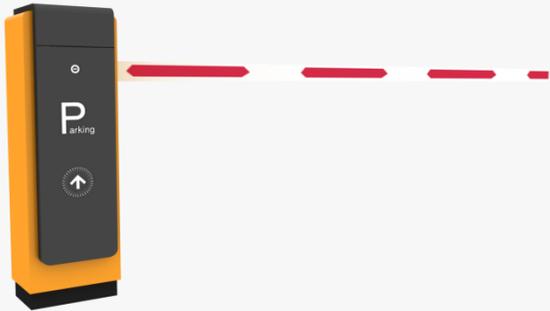
# Touchless Screen Solution



- Touch-less solution for COVID era
- Compatible with all existing touch screens
- High accuracy with patented technology



# NEXPA Proposed Solution Major Components ①



Boom gate

- Open/Close gate
- Auto re-bounce
- High-brightness LED Bar
- RS232/RS485/Dry-contact



15 inches Auto Pay Station

- Various payment types: Cash/Card/e-wallet
- Air-touch solution embedded
- Commercials and advertisements can be displayed on the main screen



Ticket Dispenser/Reader

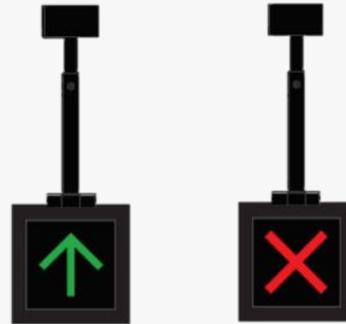
- Standalone type, VoIP included
- Dispensing speed : 1.0 Sec
- Compact size design to save the installation space

# NEXPA Proposed Solution Major Components ②



### Fee Calculator

- PC type, Cash box included
- Prompt payment calculation
- Vehicle number can be printed on the receipt
- Various discount options
- Daily, Monthly, Yearly vehicle access date can be provided.



### In/Out Display For Hybrid Lane

- Ceiling type
- Provides optimal parking route
- Dynamic LED display
- Customizable design



### Outdoor Guidance Display

- Standing type
- Three colors for different status (Green-available, Red-congested or full)
- Bright LED module
- Customizable size

# Site Pictures

Auto Pay Station with touchless screen



The parking lot users can pay their parking fees using the auto pay station before leaving the building and heading to the parking lot. It reduces the congestion at the exit gate.



Screen of fee calculator

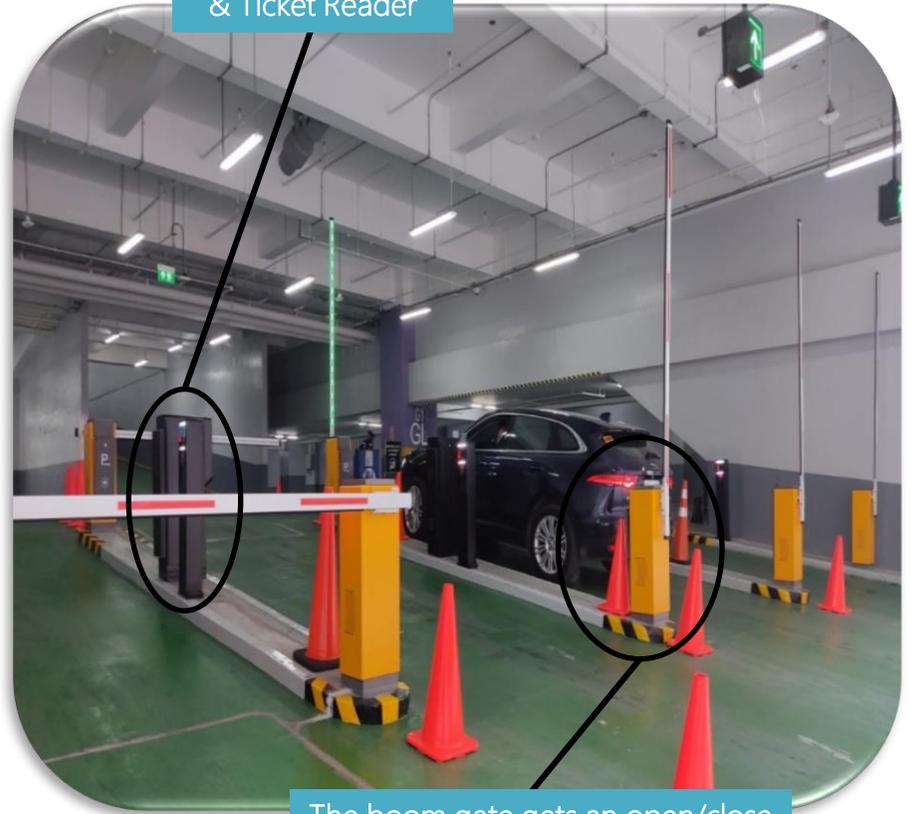
# Site Pictures - Entry

In/Out Display for Hybrid Lane



Boom gate with LED bar

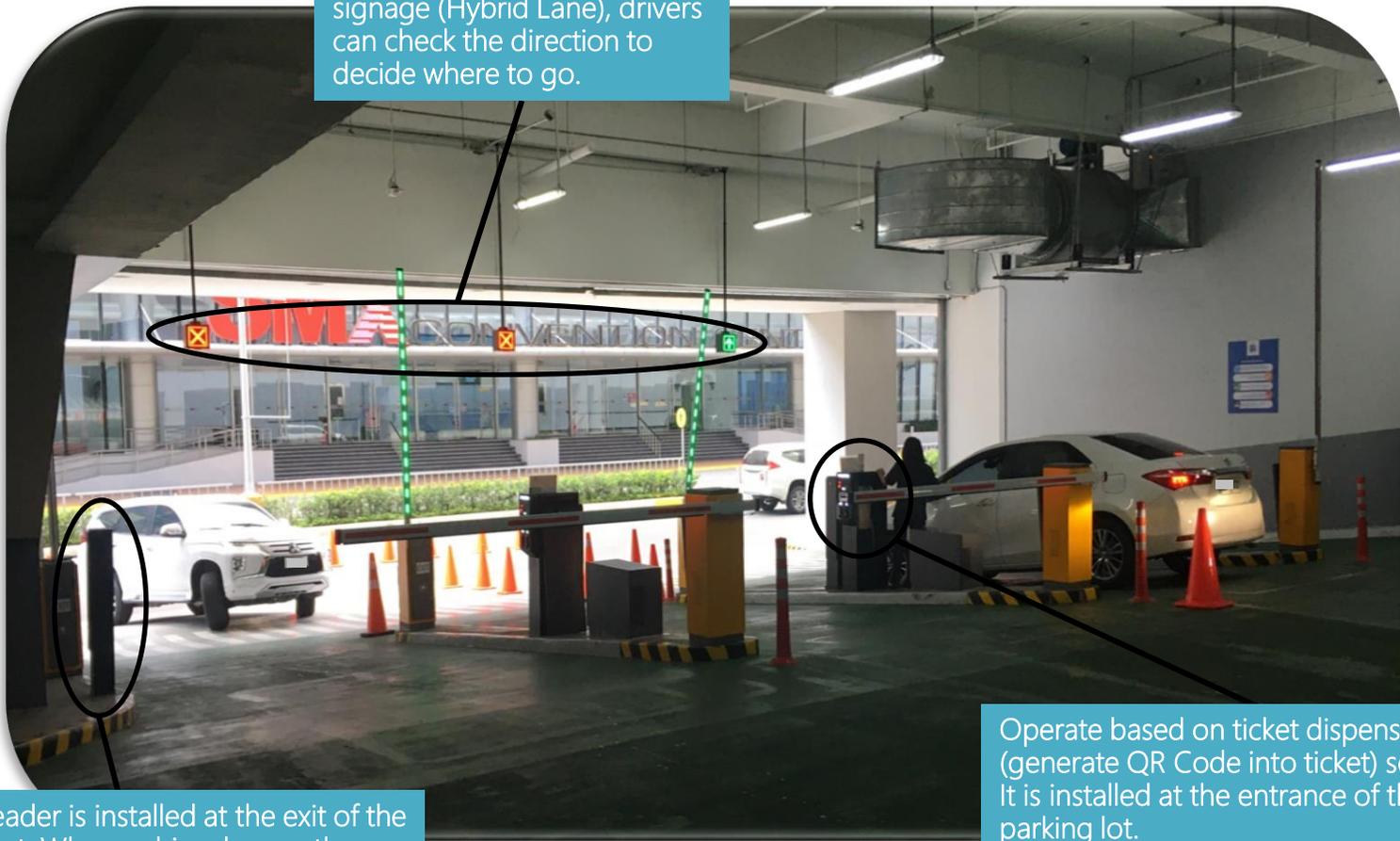
Ticket Dispenser & Ticket Reader



The boom gate gets an open/close signal from ticket dispenser/ticket reader, but can also be controlled using manual switch from the managing center if required.

# Site Pictures - Exit

Through parking guidance signage (Hybrid Lane), drivers can check the direction to decide where to go.



Ticket Reader is installed at the exit of the parking lot. When a driver leaves, the machine collects the ticket.

Operate based on ticket dispenser (generate QR Code into ticket) solution. It is installed at the entrance of the parking lot.

# Results

- SM IKEA opened its biggest store in the world in the Philippines, with the new 730,000 square foot facility in Manila a cornerstone of the home-furnishings giant's expansion plans in Asia.
- This study case has been prepared to introduce a project case NEXPA has successfully completed for a furniture store called SM IKEA in Pasay area, Philippines. SM IKEA selected NEXPA's smart parking solution for the efficient operation of their parking lots, aimed to improve its brand image and loyalty of their customers.
- NEXPA installed parking management & guidance system into SM IKEA in Philippines, especially, it is operated by using both exit/entry lanes as Hybrid lane, to prevent traffic congestion at specific time.
- Based on the SM IKEA case, the NEXPA smart parking solution is being expanded to the parking management markets in the Philippines.