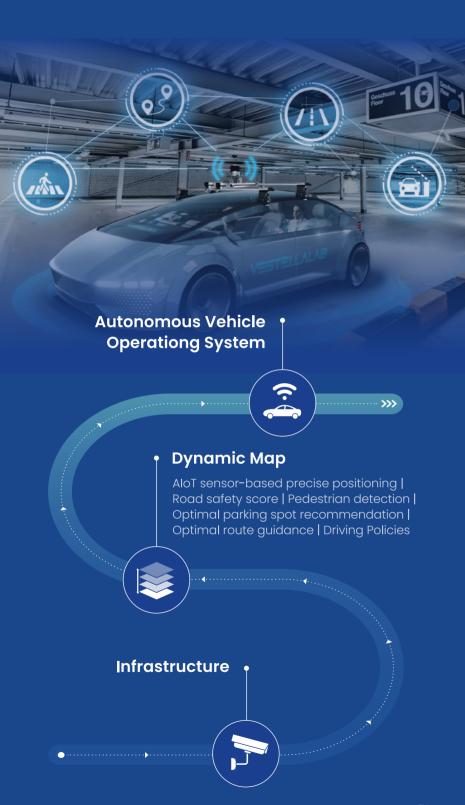
Automatic Valet Parking Service based on V2I Communications



ZeroCruising"

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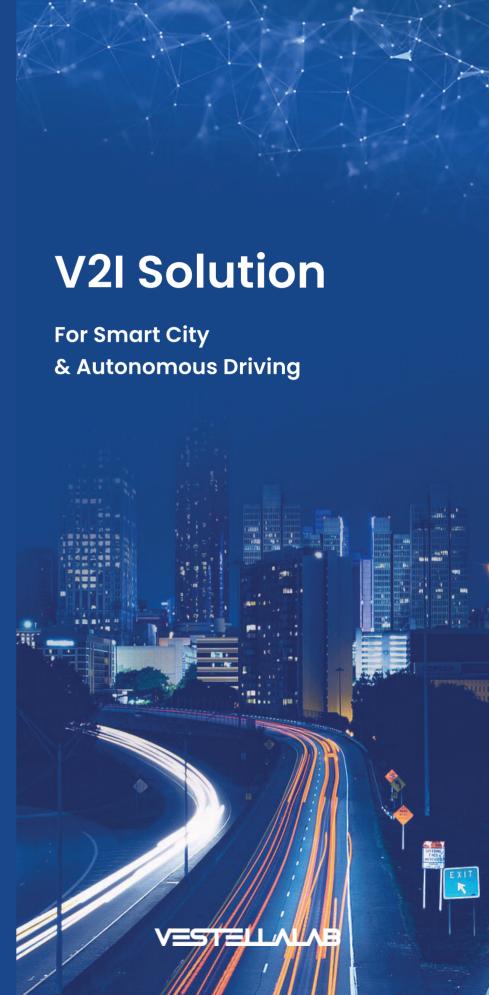


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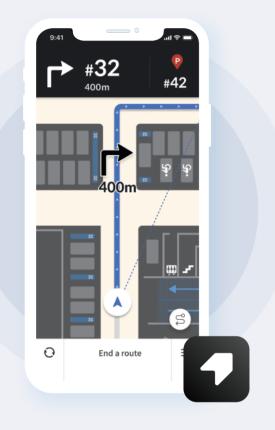






Non-GPS Indoor parking navigation

The minimal operation, indoor precise positioning, accurate information providing indoor parking route guidance service



4 watchmile

Indoor-outdoor Parking Navigation

Applying non-GPS precision positioning technology, a key technology of VEStellaLab

Parking Space Unit-based Digital Map

Providing intuitive parking status and empty parking space location

Smart Parking Vision Al

Taking into account driver's preferences to recommend the optimal & nearest parking space

Service Flow

Destination guidance using commercial navigation Maximizing convenience by automatically running Watchmile upon arrival at the destination

STEP 1

Departure



Destination auto search
& guide by using commercial navigation

- ① Use of commercial navigation
- 2 Destination auto entry & guide
- (3) Arrival at destination
- 4 Automatically run Watchmile

STEP 2

Enter the parking lot



- Precise parking navigation through non-GPS precise positioning
- Providing service to the indoor, underground, multistory car park
- (1) Real-time parking status
- 2 Recommending optimal parking space
- 3 Al Precise navigation
- 4 Parking ticket issued

STEP 3

Exit the parking lot



Easily check parking tickets via the Watchmile application Provide parked location search

- Parking ticket confirmation
- 2 Finding my car

Solution

V2I Communication technology solutions can be applied to various fields such as autonomous driving and smart logistics



Indoor & outdoor parking navigation solution

- Information on parking status: Providing location information of available parking surfaces using a precise digital map
- Parking navigation: Displaying the indoor movement status and route to the driver using precise positioning
- Finding my car: Recording and providing a parking location cache for the driver



V2I communication for autonomous driving & vector map solution

- Delivering essential safety information in the parking facilities with a vector map.
- Minimizing communication latency by calculating and lightening data and improving the stability of pedestrians and autonomous vehicles by securing real-time data
- Creating dynamic safety maps by providing dynamic information that recognizes vehicles and pedestrians



V2I solution for warehouse

- Installing V2I terminals exclusively for logistics warehouses in equipment such as small trucks and forklifts
- Minimizing blind spots by utilizing sensors/CCTV built into the warehouse
- Minimizing miswork and ensuring timeliness
- Creating a dynamic safety map by providing dynamic information to recognize forklifts and logistics robots in the warehouse





