



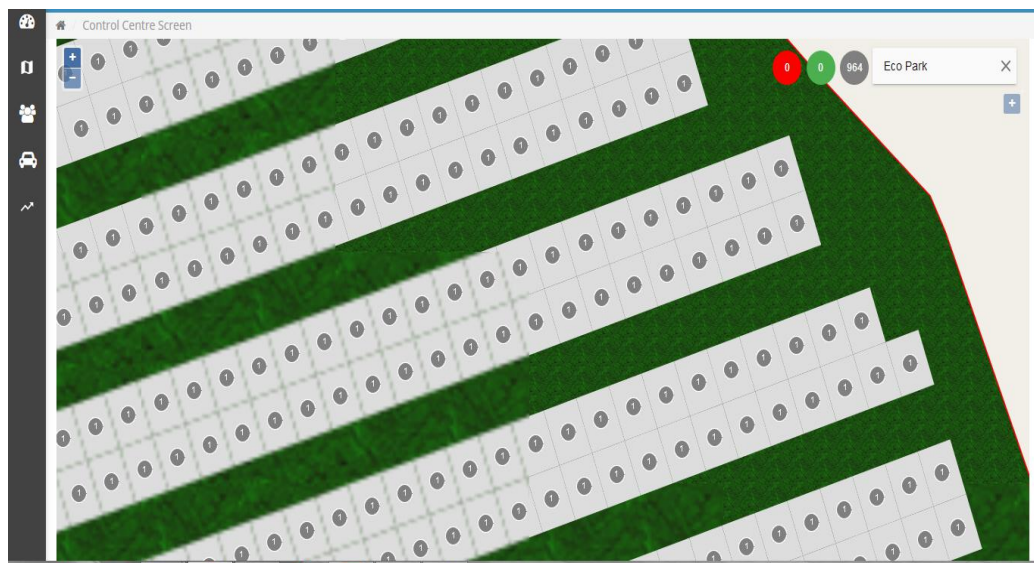
# Smart Parking Solution

Solution Architecture

Vara's Smart Parking solution automatically monitors the duration of stay of every vehicle, alerting an attendant to any that have stayed beyond the maximum time allowed.

The system records how the car park is used and presents this information through providing live space-by-space occupancy status information, average stay time reporting and historic car park capacity statistics.

The data collected enables a multitude of parking guidance opportunities ranging from live signs, indicators, and smartphone applications.



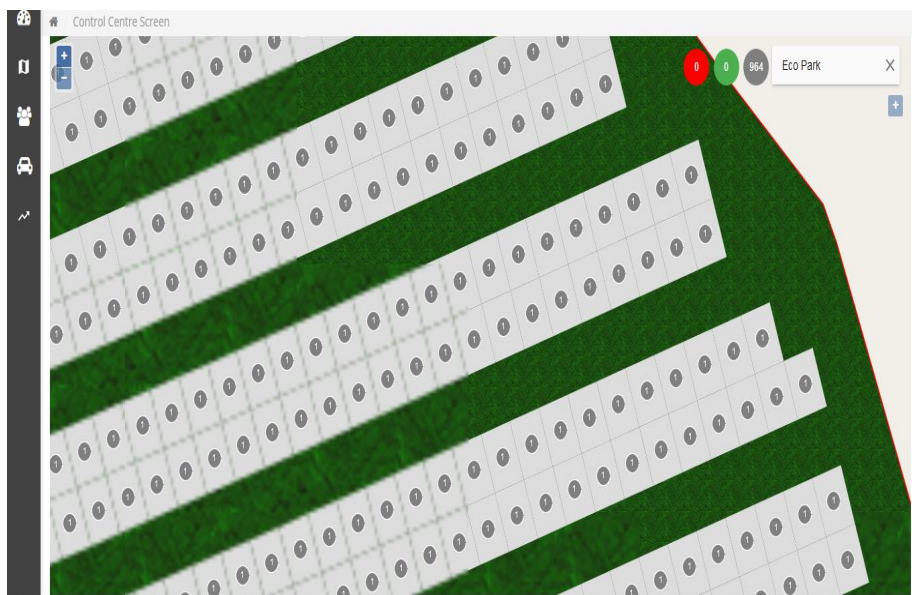
Smart LoRa Gateway which connects to the parking sensors and forwards the feed to the server

The hardware is rugged (IP66 Rating) and can withstand environment.

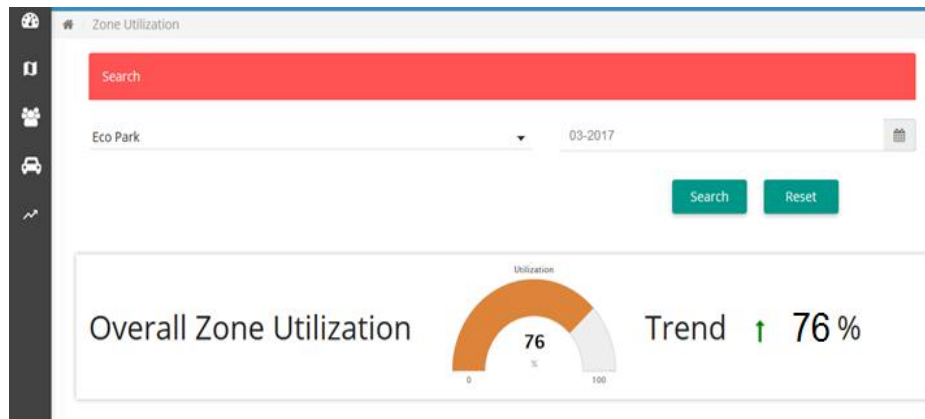


## Command Control GIS Interface

GIS Interface to view parking areas across city areas under monitoring and control



Analysis of parking occupancy across zones of parking areas under monitoring.



## Typical Installation Example

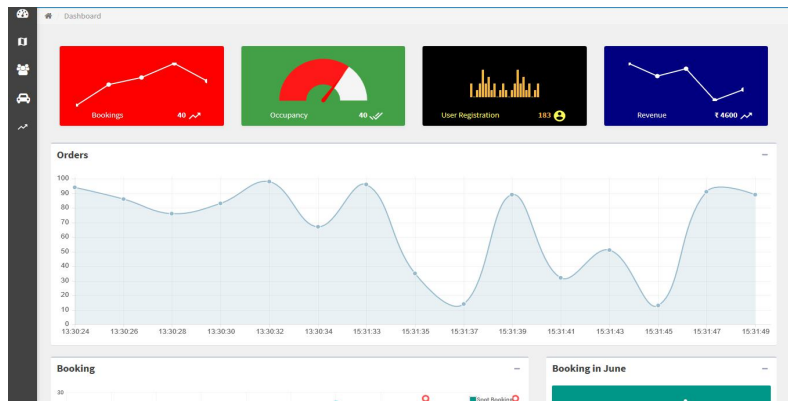
The parking sensor gateway in use.



The parking sensor embedded in the ground. Can sustain cars running over it as well.



The server analytics.



## Benefits of Smart Parking System

### *On - Street*

1. Traffic congestion decreases.
2. Pollution is reduced.
3. Local businesses get improved footfall as parking capacity is maximized.
4. Streets are safer - drivers not distracted by hunting for spaces.
5. Drivers less stressed and have more time to do things other than parking.
6. Best possible use of available space.

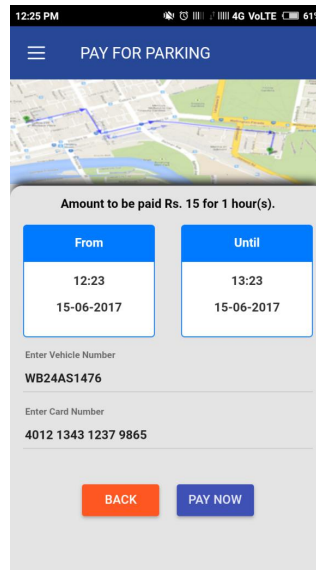
### *Off - Street*

1. Customers are happier as they find spaces quickly.
2. Less time spent on parking means more time to use your services.
3. Traffic flow improves, saving time and increasing safety.
4. Integrates with SmartRep for pay-by-pone, compliance and information to attendants.
5. Space available gets maximum use

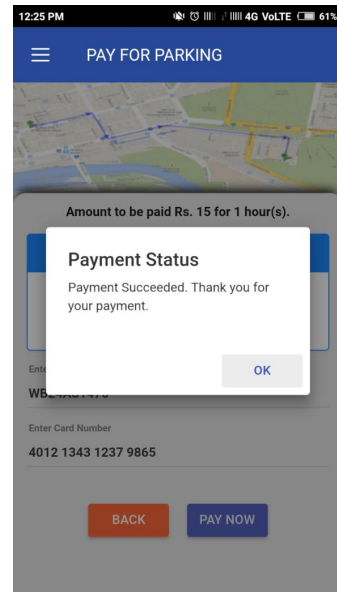
# Mobile Application Workflow



Check your parking availability at selected area



Confirm your booking details with vehicle and payment options



Pay online and confirm the booking for parking slot