



COMMUNITHINGS SMART-PARKING

Improving mobility at the city...



The EV parking service is renowned for its contribution to higher rotation of cars on the EV charging spots.

With help of mobile application, users find charging points easily, park, charge their car, and leave.

On the other hand, parking controllers receive alerts on overtime or when car doesn't need to stay longer on the spot (battery charged or stopped charging).

The « waiting list » service alerts users when a charging spot becomes available. Once on the spot, bi-directional communication between ground sensor and mobile app allows platform to validate user profile and trigger session start.



1 Ground sensor

CommuniThings LPWAN wireless sensor placed at each EV parking space collects data on the occupancy status (free/busy) and duration per stay in each spot. The sensor is linked with spot number and geo-location.

2 End-user guidance

Designated EV charging zones are marked and indicated by the city. In addition, mobile application can guide users to available spots.

3 Waiting list & authentication

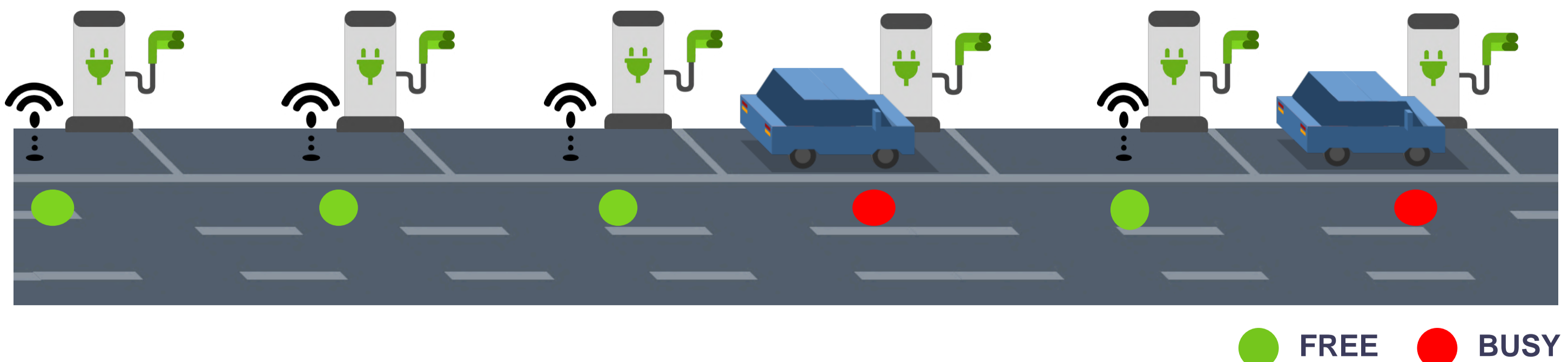
When all spots are busy user can choose to receive notification when a charging spot becomes free. User is guided to the spot then authenticated by the platform

4 Enforcement Dashboard

Real-time alerts in each spot (overtime, battery fully charged or stopped charging), are relayed to the Controllers's management dashboard on their handheld device. As a result, controllers can reach the vehicle in breach, and ticket it promptly.

5 Charging status

Right in the mobile app users have information such as remaining charging time, remaining charging capacity, session timer, remaining time allowed on spot,...



1 End-user guidance

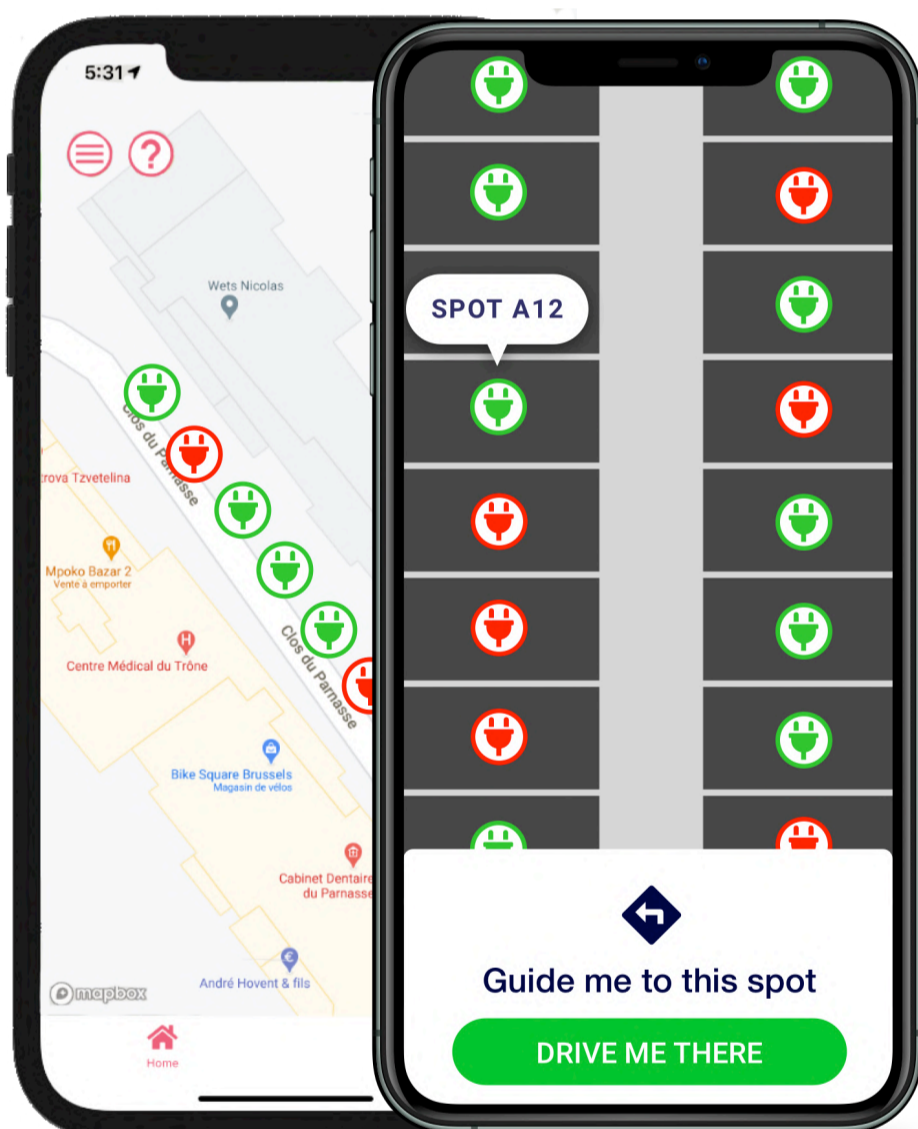
Designated EV charging zones are marked and indicated by the city. Users can check parking availability (free/busy) in mobile application and be guided to the spot.

2 Alerts for controllers

Real-time alerts in each spot (overtime, car on spot NOT charging or stopped charging), are relayed to the Controllers's management dashboard on their handheld device. As a result, controllers can reach the vehicle in breach, and ticket it promptly.

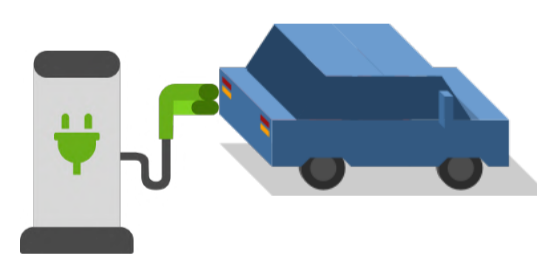
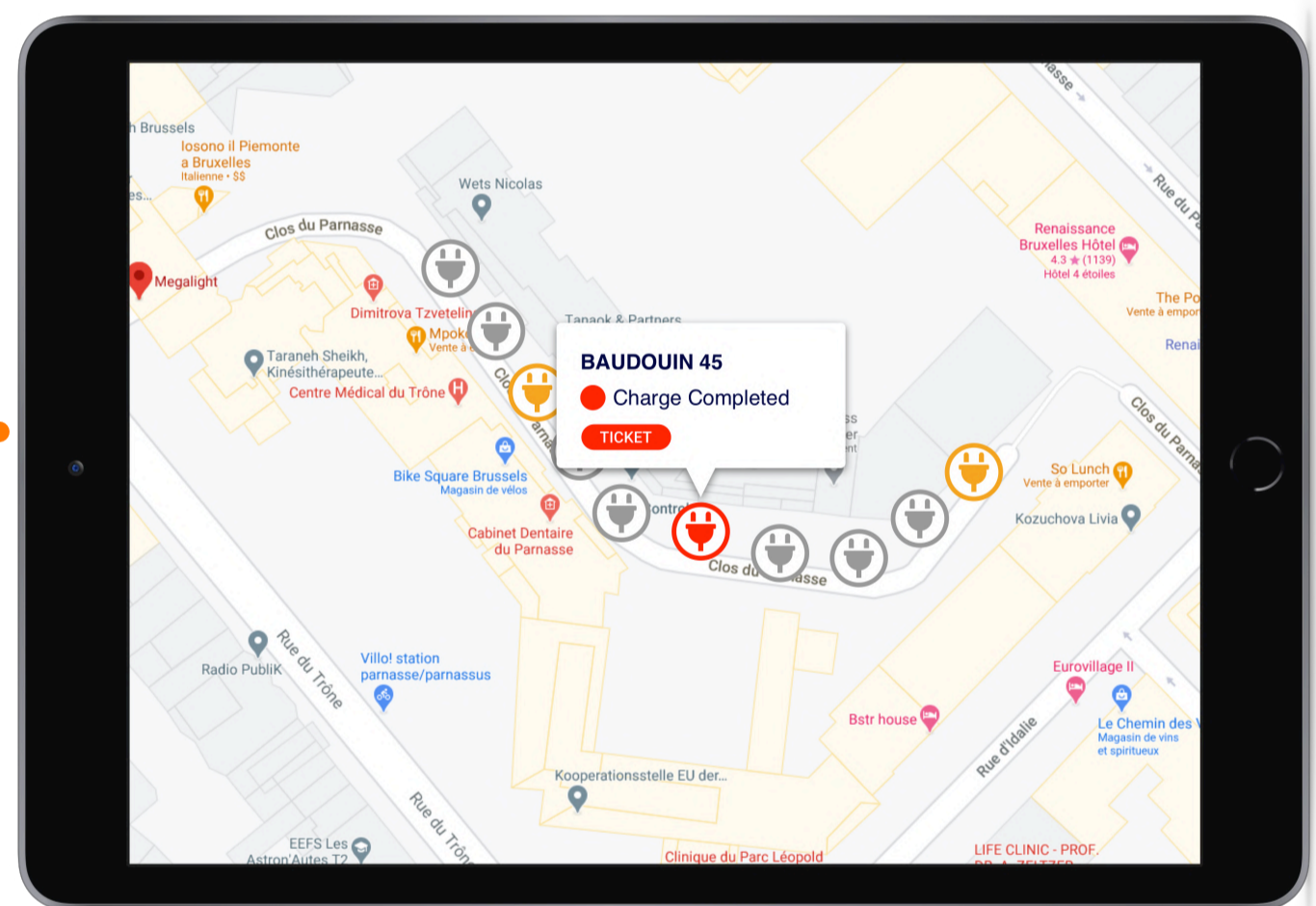
Subscribers Mobile App

- (1) Occupancy status (free/busy).
- (2) Guidance to available spot (via Waze, Google,...).

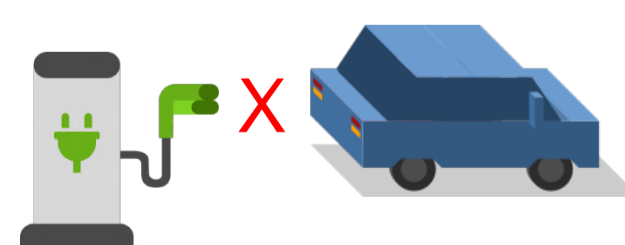


Controllers Management Dashboard

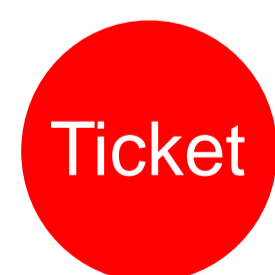
Alerts on onertime-use or vehicle charging status at each spot.



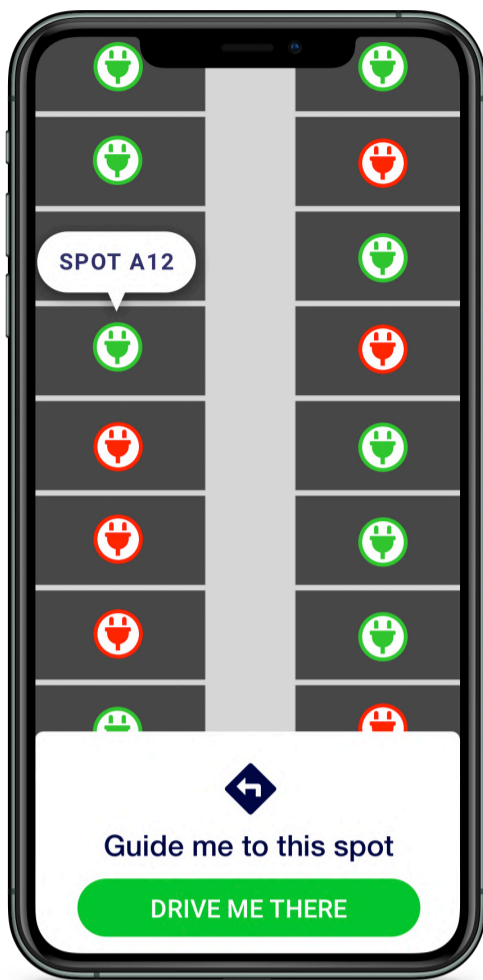
Car on spot - charging



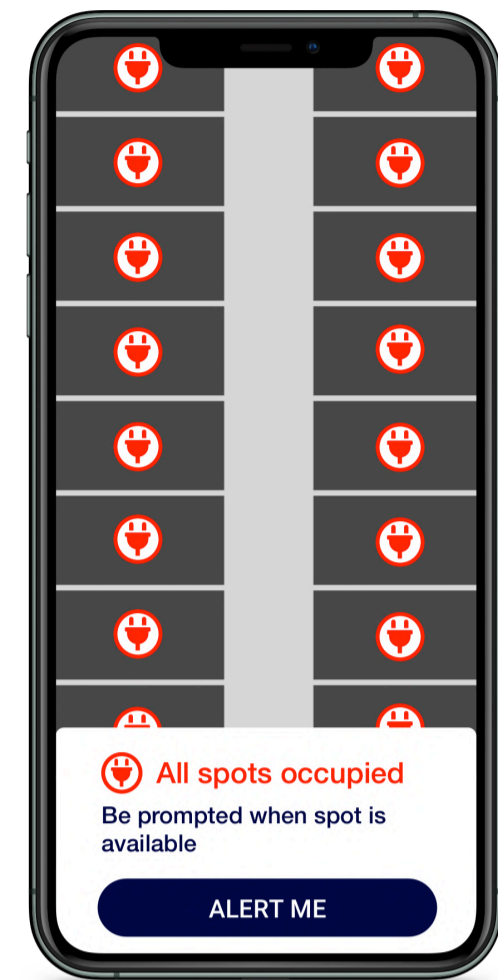
Car on spot - **NOT** (or stopped) charging



Available Spot

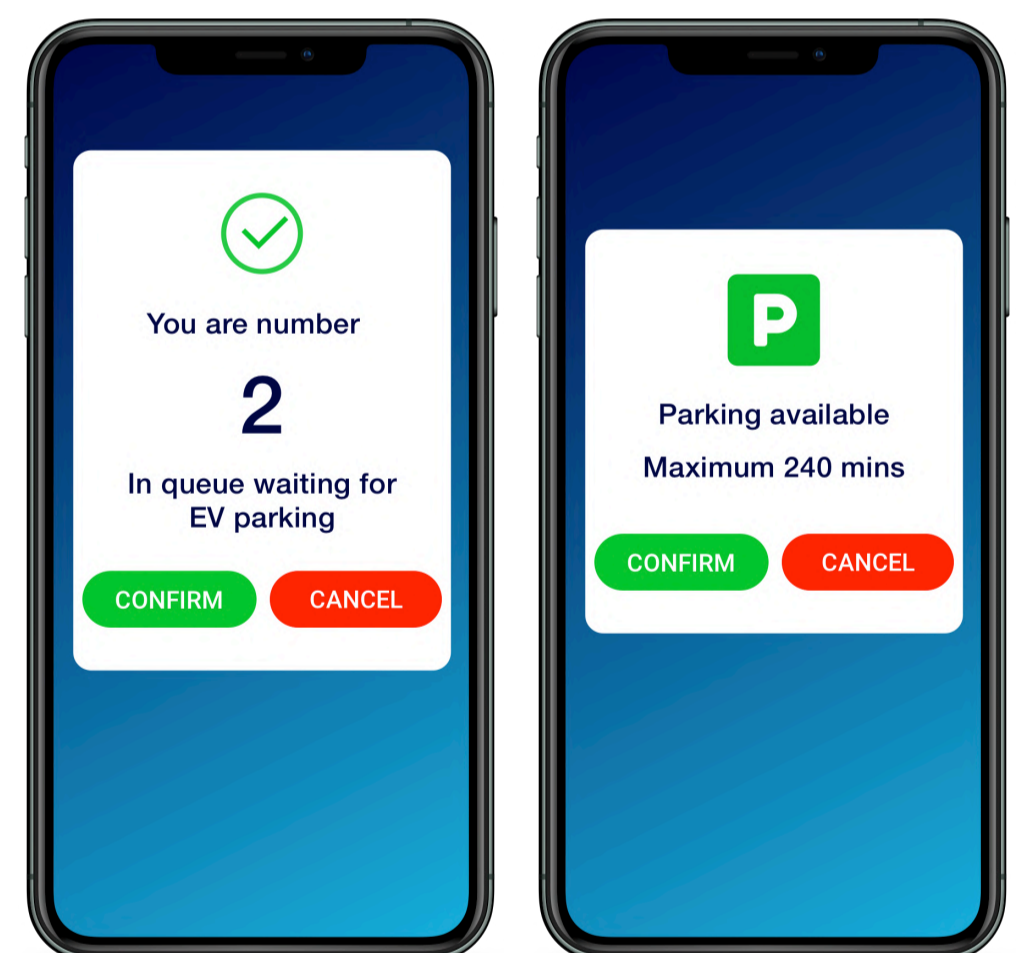


Parking Full

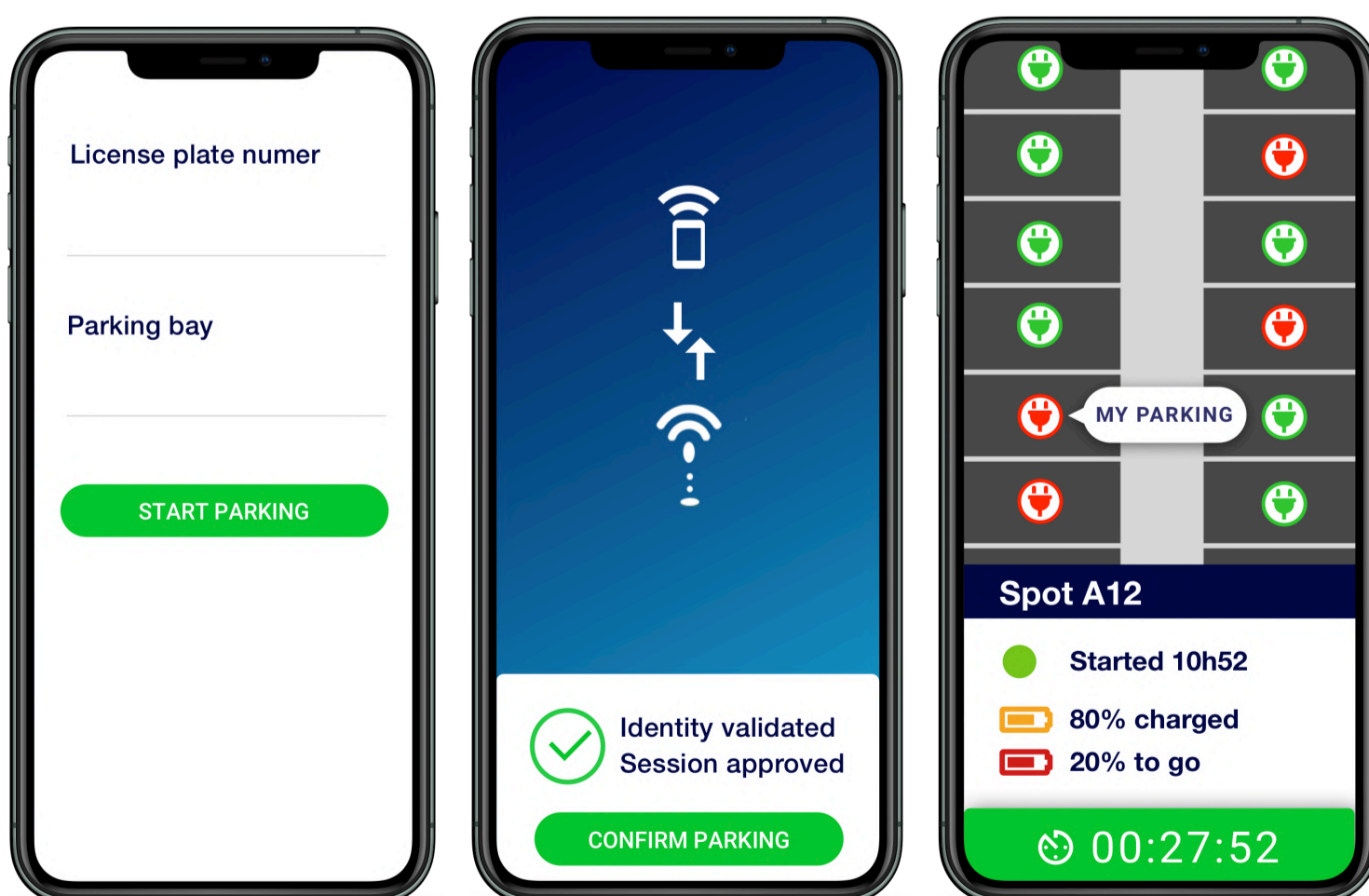


- (1) User subscribes to waitinglist and is advised on position in the queue.
- (2) User is alerted once a spot is available.

- (1) User is guided to available spot and checks-in to service.
- (2) User profile is validated by the platform, triggering session start.
- (3) App advising on time remaining and charging capacity.



User is directed to available spot, within the time allowed.



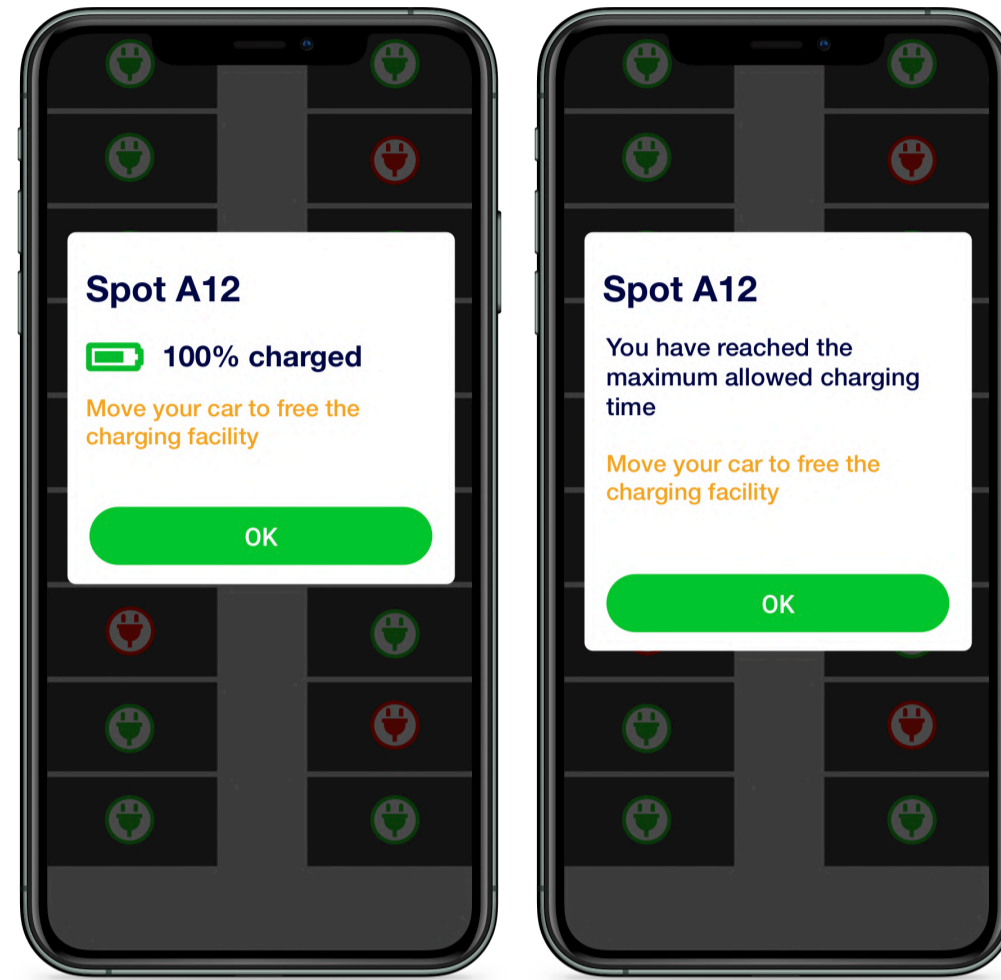
Employees / Subscribers

Occupancy Status



App advising on charging-time remaining OR charged capacity / remaining charging capacity.

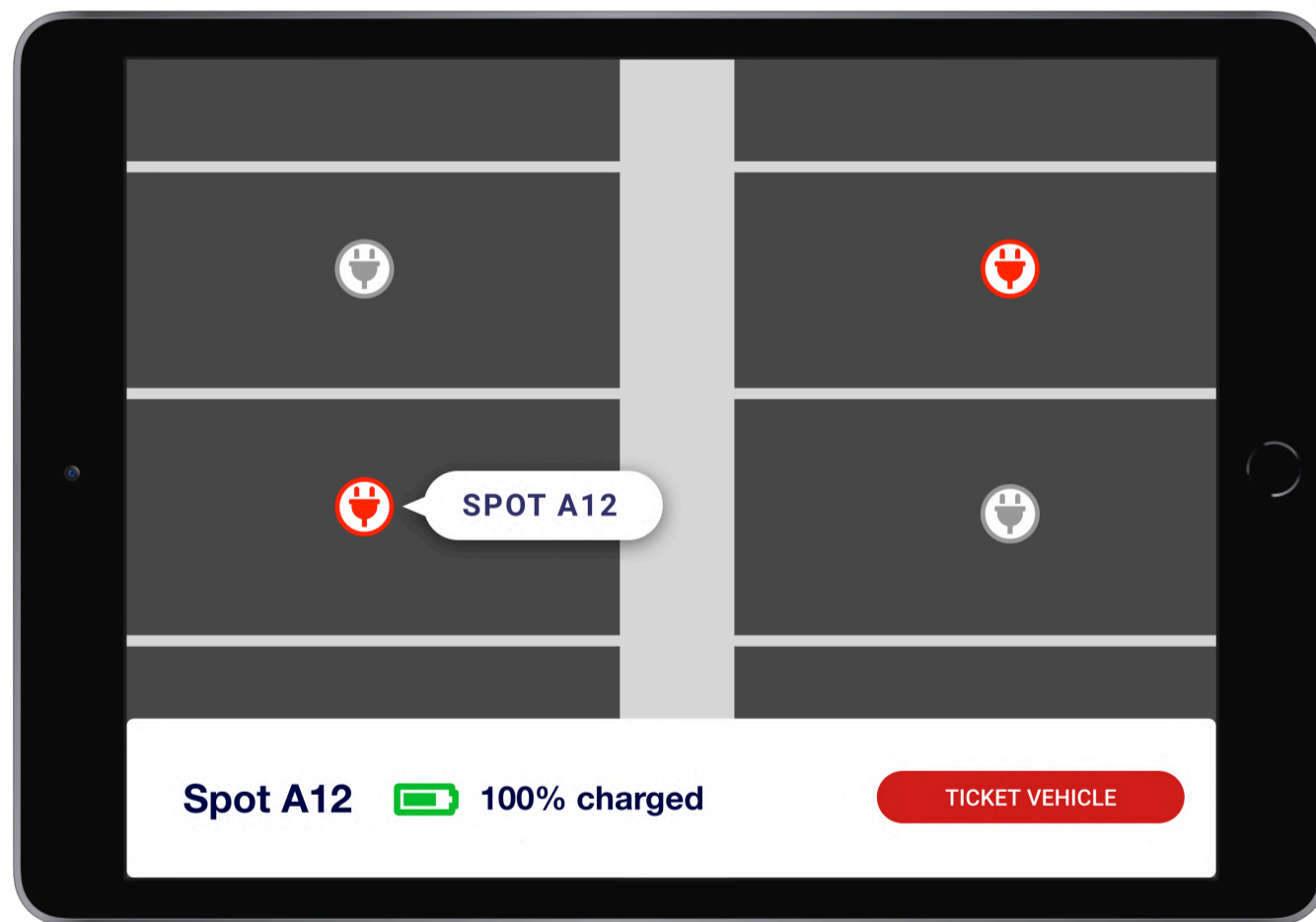
Notifications



Notification to user once time elapses OR when battery is fully charged.

Controllers

Enforcement Alerts



Enforcement alert is triggered when time is up (e.g 4 hours) OR when battery is fully charged.

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