

# Car Park Case Study

## The Hague Turfmarkt: 228 parking spaces



Den Haag



*LumiGuide offers Smart Mobility Solutions including car parking systems, bicycle detection systems and (sensor-based) data extraction for local authority policy making. We specialize in high-level programming data platforms and related API's.*

## Municipality of The Hague

### Executive Summary

There is very high parking pressure in The Hague's various neighbourhoods. One of the solutions for the municipality is to build new car parks and to renovate old ones. Turfmarkt is one of these renovated parking facilities where a parking guidance management system has been installed, leading to:

- More efficient use of the facility: available spaces are immediately visible.
- Less carbon dioxide emission because users do not need to drive around the car park looking for a space to park.

## Challenges

In 2016, the Municipality of The Hague decided to invest in renovating the existing car park Turfmarkt to better serve the people visiting the city centre and the various Ministries. The existing facility was outdated, and it was difficult for users to find an available parking space because there were no signs or other indications, neither inside nor outside.

## How LumiGuide Helped

To facilitate users in finding their way to a space to park their car, the Municipality asked LumiGuide to install a software based parking management system, consisting of ultrasonic sensors and LED-lights, indicating available (in green) and occupied (in red) parking spaces.

In addition, LumiGuide also installed LED-matrix signs to (re)direct users to storeys showing the number of still available spaces, or, in case of e.g. maintenance work, the closure of a certain storey.

The system works as follows: the ultrasonic sensors register when a parking space is taken and send a message which both updates the illuminated LED signage and changes the individual car parking spaces' lights from green to red.

The management information software back-end gives the municipality insight into the car park's usage (real-time and over time), current occupancy rate (so drivers can be redirected to other car parks if necessary) and other data which facilitates policy making.



*Digital Signs Turfmarkt*

## Results

- More efficient use of the facility: available spaces are immediately visible.
- Less carbon dioxide emission: users do not need to drive around the car park looking for a space to park.
- User-friendly: users immediately know where to go and save time.
- Safer environment: users know where to go and can pay more attention to driving than to looking for available spaces.
- Policy making made easier: the management information system generates data on occupancy rate, usage over time etc.

## Would you like to know more?

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