

**Cleverciti**  
Systems



JOY  
OF PARKING

[cleverciti.com](http://cleverciti.com)



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# Cleverciti S y s t e m s

Cleverciti parking sensors analyse & measure parking spaces in real time & allow cities & parking operators to manage their on-street parking in a smart & efficient way.

Cleverciti Systems is a disruptive solution, which combines IoT and big data expertise to revolutionize the management of on-street and open-air parkings. Our mission is on the one hand to improve the standards of living of citizens by eliminating search traffic and reducing CO2 emissions. The Cleverciti App provides a live overview of available and occupied parking spaces, and guides drivers directly to the nearest available space in the immediate vicinity. The Cleverciti Cockpit helps cities upgrading the management of one of their key assets: parkings, by optimising usage, increasing revenues and enhancing monitoring. Our solution is reliable (high proven accuracy & robust), cost-effective (long range, high number of spaces managed by one sensor), and plug & play.

## THE BIG SEARCH



**20 min.**

20 minutes is the average time drivers waste looking for a parking



**3 years**

The typical driver spends 3 years of his life time searching for a parking space



**4 billion**

Costs caused by parking search traffic are 4 Billion euros a year in Germany



...of traffic is caused by  
drivers searching for parking

## CHALLENGES FOR CITIES



Cities have no access to reliable and real time parking data to improve operations and parking revenue generation.



Cities do not capitalize up to 90% of potential parking space revenue because drivers do not pay for parking.



Cities of tomorrow must decrease pollution levels or face penalty payments for excess emissions.



NOx limits

...regularly exceeded in inner  
cities

# PARKING MANAGEMENT

from the Top





# Cleverciti Systems



Parking Sensors



Apps &  
Frontends

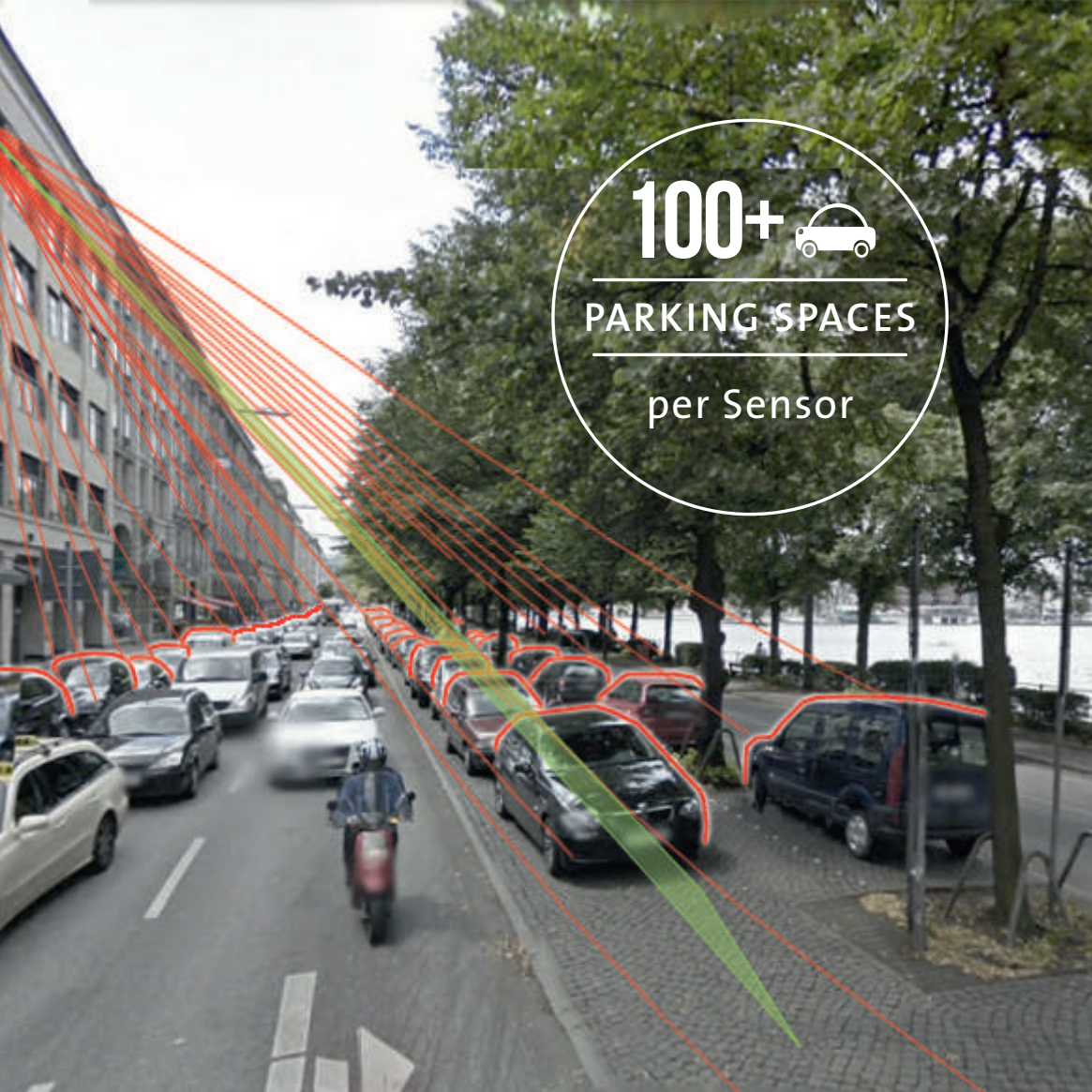


Parking Management

100+ 

PARKING SPACES

per Sensor



# CLEVERCITI SENSORS

Highly efficient Sensor Systems for the Smart  
Cities of the Future

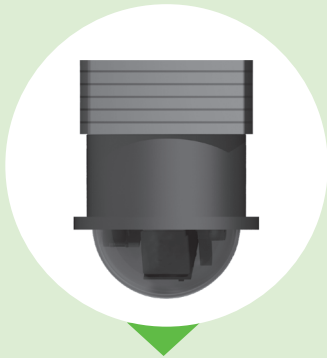
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Cleverciti Sensors **monitor, analyse and measure:**



- Parking spaces (marked or free floating)
- Loading zones
- Prohibited zones
- and more

## CLEVERCITI SENSOR LR 7100



- For large on-street parking areas and surface parking lots
- 100+ parking spaces per sensor
- Reach: up to 400 meters
- High precision motion control head

## CLEVERCITI SENSOR SR 5640-120



- For lampposts and on-street parking
- 30+ parking spaces per sensor
- Reach: up to 150 meters

## CLEVERCITI SENSORS in Smart Lighting



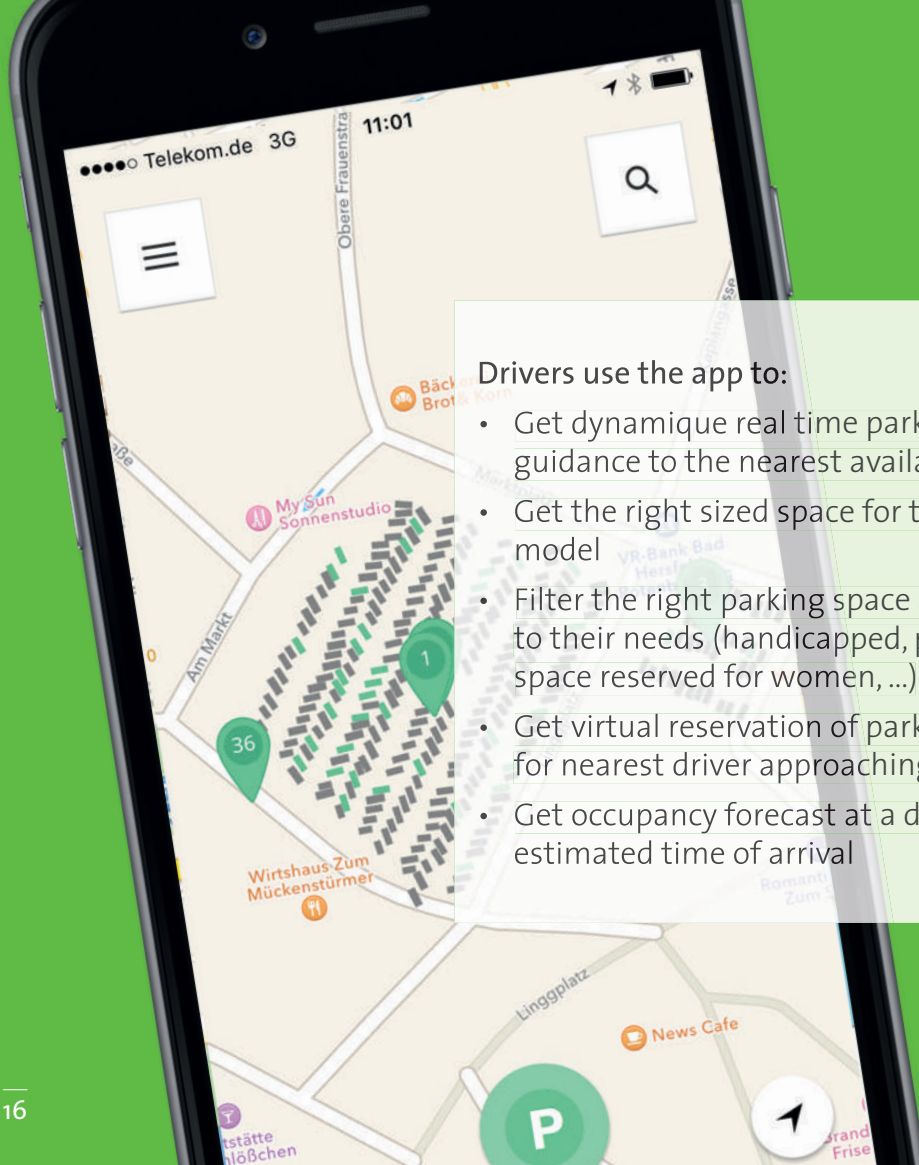
- Seamlessly integrated into modern LED luminaires
- 30+ parking spaces per sensor
- Including light management and optional other features

# CLEVERCITI SENSORS

## Facts & Figures

- Scan precision = 0,005 degrees
- GPS/map precision = 25cm
- High speed (octacore) embedded data processing
- Complete data analysis inside the sensor, machine learning
- Redundant LTE and Wifi transmission
- Redundant gateway functions
- Remote parking space setup and configuration
- 24/7 network management
- Self healing, self learning, remote software updates
- Fast and easy installation on buildings or lampposts
- Perfect night mode without need of additional lighting or infrared
- Hard-and software compensation of wind and vibration





### Drivers use the app to:

- Get dynamic real time parking guidance to the nearest available space
- Get the right sized space for their car model
- Filter the right parking space according to their needs (handicapped, parking space reserved for women, ...)
- Get virtual reservation of parking space for nearest driver approaching
- Get occupancy forecast at a desired/estimated time of arrival

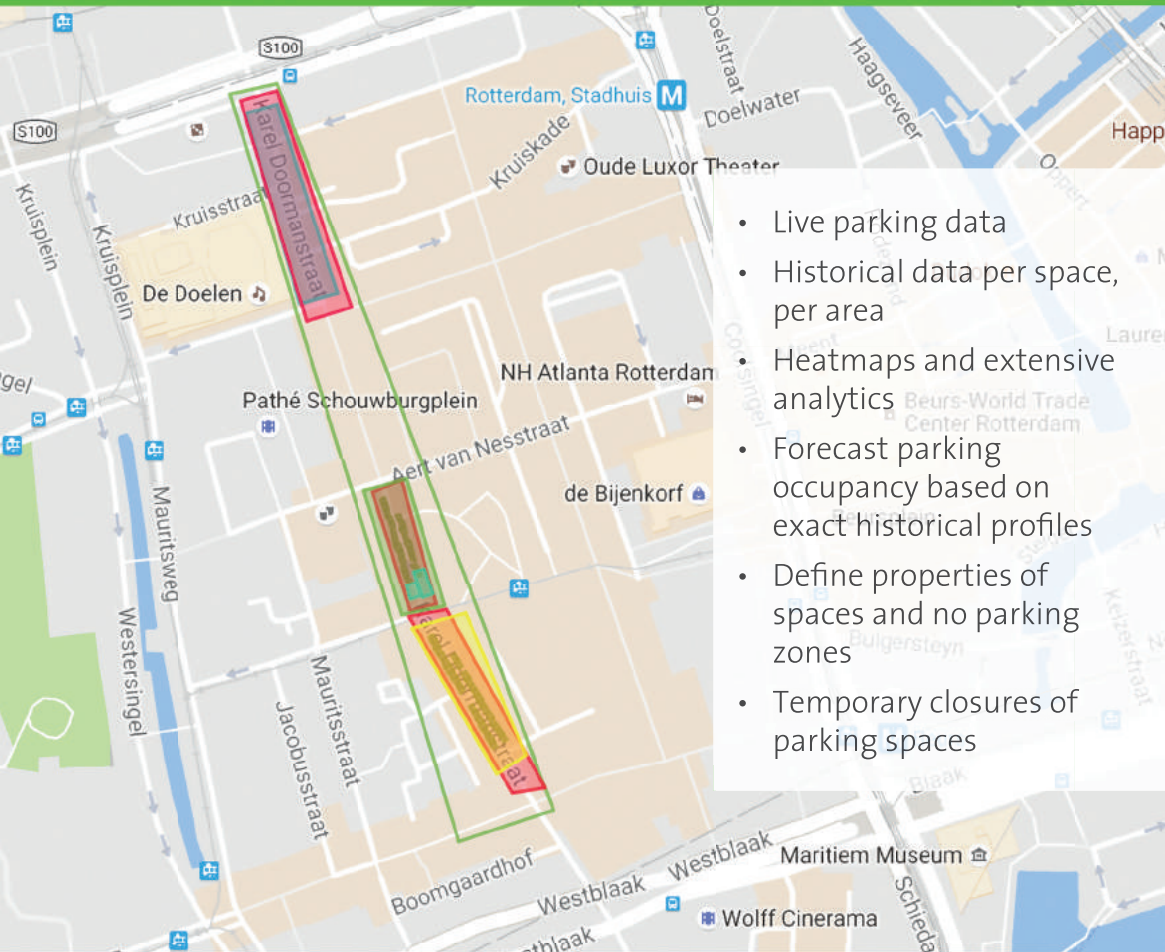


# CLEVERCITI APP

for drivers

All parking spaces at a glance,  
save time, save money and avoid stress.





- Live parking data
- Historical data per space, per area
- Heatmaps and extensive analytics
- Forecast parking occupancy based on exact historical profiles
- Define properties of spaces and no parking zones
- Temporary closures of parking spaces

# CLEVERCITI PARKING MANAGEMENT COCKPIT

Make parking visible

Reliable, real time parking data for cities and parking operators and access to powerful monitoring & control features.



# CLEVER PARKING SOLUTIONS

## Benefits



REDUCE SEARCH TRAFFIC



DECREASE EMISSIONS



INCREASE REVENUES



IMPROVE QUALITY OF LIVE




JOY  
OF PARKING

## CLEVERCITI TESTIMONIAL



„For a pilot we tested different sensor technologies and have decided for Cleverciti Systems. I can say the cooperation was very successful – the installation of the sensors was done in one day. Our objective is not only to compare technologies, but also to find a solution for our clients that shows them where it is allowed to park and where not.”

Ties de Groot, City of Rotterdam, Netherlands



Cleverciti for  
BTC City, Ljubljana:

Monitoring of

300+ spaces with  
1 Cleverciti LR Sensor  
mounted at 85 meters  
on a building

 **Cleverciti**  
systems



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Cleverciti Sensor Systems are patent pending