

Smart Parking

 **Cleverciti**
S y s t e m s

HELPING **CITIES** AND
MOTORISTS MAKE THE MOST
OUT OF **PARKING SPACES.**



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Cleverciti S y s t e m s

Cleverciti Systems: the company that turns the daily nightmare of searching for a parking space into a predictable, stress-free experience.

Cleverciti Systems is a disruptive big data company, system and sensor technology for smart on-street and open-air parking. We aim to reduce search traffic and CO₂ emissions, and help solve some of the most urgent challenges facing cities today!

Each sensor detects and analyzes up to 100 parking spaces. The data analysis and data processing are handled inside each sensor.

Cleverciti Systems for cities, public and private open-air parking operators and advertisers: Our new sensor technology helps increase revenues while decreasing traffic jams and air pollution levels.

Cleverciti Systems for citizens and drivers: Our app provides a live overview of free and occupied parking spaces, and guides drivers directly to the nearest free space in the immediate vicinity. No more driving endlessly around the block!

CHALLENGES TO MOTORISTS



20 min.

Average time spent
to find a parking
space, worldwide

3 years

The average Parisian
wastes looking for
parking over their
lifetime.

1000 €

and more
loss per year
20 minutes at € 16
per hour = € 5,00+
per search



30%- 40%

...of traffic is caused by
motorists looking for parking

CHALLENGES FOR CITIES



Cities lose hundreds of millions of Euros each year due to high cost of parking monitoring and lack of dynamic pricing.



Cities only capture a small portion of its parking revenue potential. 50% to 80% of motorists don't pay for parking and only a fraction get a fine.



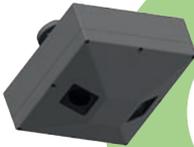
Cities are compelled to urgently implement solutions to decrease pollution levels (NOx emissions) or they will be forced to pay heavy fines.



NOx limits

**...regularly exceeded in inner
cities**

CLEVERCITI SOLUTIONS



1. Cleverciti Sensors



2. Cleverciti App



3. Cleverciti Cockpit

For Cities



- Decrease traffic and pollution
 - Optimise asset usage by implementing free floating parking
- Improve monitoring & fraud detection

For Parking Operators



For Motorists



- Identify available spaces at your destination
- Benefit from automatic guidance
 - Pay by mobile
 - Find your car
- Avoid fines and get reminder

Cleverciti
Systems



1. CLEVERCITI SENSORS

Cleverciti sensors is a disruptive technology, based on image processing, which reliably and systemically identifies available and occupied parking spaces in real time.



1. Low total cost of ownership

One sensor can cover up to 100 parking spaces, depending on street configuration. The installation is easy and does not require civil works. The sensor can be mounted on building facades, masts, or lamp posts.



2. Efficient (free-floating spaces)

The sensor scans the entire street and identifies available and occupied spaces. The sensor measures the size of the available spaces. The status of each space is updated 20 times per minute, or every 3 seconds.



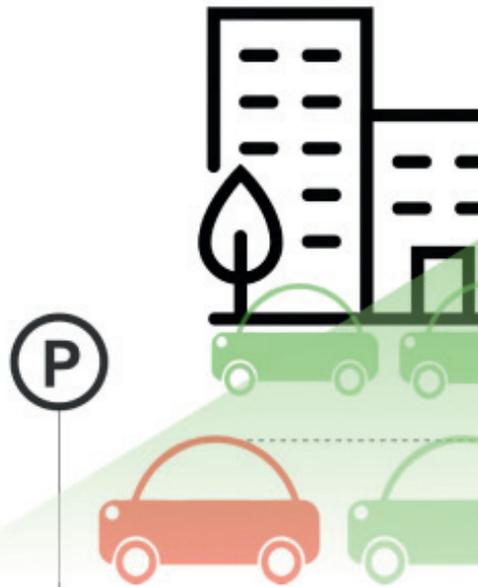
3. Reliable

The sensor transmits coded GPS positions via Wifi or m2m. It does not require heavy maintenance (no batteries to change, climate change-resistant, no danger of vandalism). No videos transmitted by sensor, all privacy laws are fully respected.

CLEVERCITI SENSORS

all have

- Scope of 30 to 100 parking spaces
- Precision to 0,0005 degrees
- Complete data analysis and data processing inside the sensor
- Reliable performance despite changes in temperature and light
- Compensation for wind and vibration
- M2M and Wifi data transmission
- Data updated every 3 seconds
- 98,5% level of reliability



CLEVERCITI SENSORS

analyse

- Available and occupied parking spaces
- Size of each parking space
- Duration of parking event
- Classification according to usage type & restrictions



CLEVERCITI SENSOR LR7100



Dedicated to large
on-street parking
areas and surface
parking lots

30 to 100+ parking
spaces per sensor
Reach: 15 to 400
meters

Remote adjusting
with high precision
remote control
head

CLEVERCITI SENSOR NF5640-120



Dedicated to lamp poles and on-street parking



16 to 30+ parking spaces per sensor



Reach: 6 to 100 meters

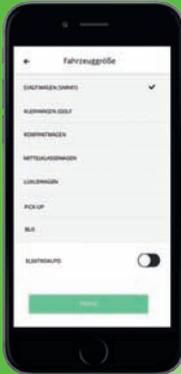


Use the app to:

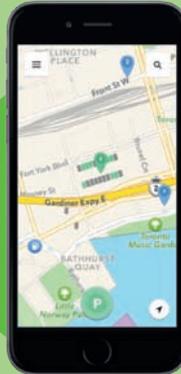
- Check available and occupied parking spaces at your destination
- Get updates every 3 seconds
- Get the right size of parking space for your car model
- Get navigation to the nearest available parking space (automatic rerouting to alternative parking, if occupied)
- Choose the right parking space according to your needs (handicapped, parking space reserved for women, ...)
- Get virtual reservation of parking space for nearest driver approaching
- Check the pricing of the parking and pay by mobile
- Get guidance back to your car

2. CLEVERCITI APP

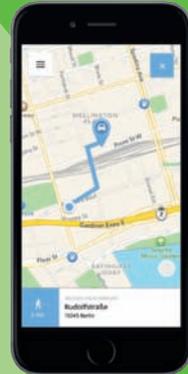
for motorists



Choose
your car size



Find
a parking space



Get
automatic navigation

Find a parking space in your city

save time, save money and avoid stress.

Communication of real time information to motorists via:



App



Navigation
devices



Local
parking guidance



Web, Maps,
Google earth

Communication of real time information to the city manager or parking operator via:

3. CLEVERCITI COCKPIT

The back-office interface gives city managers access to powerful monitoring & control features.



Access to live control and occupancy data, to enable better decision making based on real facts.



Generate additional revenues by optimizing the usage of the space dedicated to parking, and by adapting the pricing dynamically.



Reduce the cost of monitoring and control, by prioritizing the streets to verify. The cockpit lists the streets which count the highest number of infractions.

WITH CLEVERCITI SYSTEMS

1. INCREASE PARKING REVENUE

Up to 80% of drivers do not pay for parking. Most cities are unable to capture the potential revenues from one of their most important assets: space dedicated to parking. Cleverciti can provide real-time information about the location of available parking spaces, and incentivize drivers to pay for parking.

2. DECREASE TRAFFIC AND POLLUTION

30% to 40% of traffic and subsequent pollution is caused by drivers looking for parking. Cleverciti solutions can decrease traffic & pollution, reduce required time & distance to park by 30% or more and help drivers make smart parking decisions based on facts, not luck.

WITH CLEVERCITI SYSTEMS

3. REDUCE COSTS BY OPTIMIZING MONITORING

Monitoring parking (appropriate usage of dedicated zone: delivery, handicapped, limited duration parking, etc.), and implementation of the control process (verification & identification of non-compliant cars, etc.) are time consuming and expensive processes that reduce cities' profit margins. By using Cleverciti, a city can optimize its monitoring and control processes to decrease the costs of parking management.

4. BECOME A SMART CITY CHAMPION

Cleverciti offers additional value added features, such as dynamic pricing implementation or management of charging points & shared cars parking spots.

CLEVERCITI TESTIMONIAL



“Needless to say, what a great relief it is to now have a reliable parking guidance system in Bad Hersfeld. In the next few months we can eliminate a problem that caused a lot of trouble to our citizens and has cost a lot of money. For me it’s also important that we will save large amounts of CO₂ emissions through this system, because anyone who wants to park his car can finally do so without endless circling.”

Thomas Fehling, mayor of Bad Hersfeld, Germany

An aerial photograph of a large, paved parking lot in a town. The parking lot is filled with various cars, including a yellow van and a white van. The surrounding buildings are multi-story, featuring half-timbered facades and red-tiled roofs. A large white circle is overlaid on the center of the image, containing text. The Clevercity Systems logo is visible in the bottom right corner.

Key facts:

300+ spaces

5 sensors

Updated every 3 seconds

Display of live information
on the app and via
dynamic HD LED
monitors

 **Clevercity**
Systems



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Cleverciti Sensor Systems are **patent pending**