

How Automated Parking Systems Can Benefit You and the Environment

Parking is one of the most common and frustrating challenges that drivers face in urban areas. Finding a suitable parking space can be time-consuming, stressful, and costly. Not to mention the environmental impact of parking search traffic and conventional parking structures.

But what if there was a better way to park your car? A way that saves space, money, and energy, while providing a convenient and comfortable parking experience. A way that uses smart technology and AI to automate the entire process of parking, charging, and retrieving your car.

That's what **Parkstory** automated parking systems offer. These are innovative solutions that use sensors, cameras, robots, and software to park and charge your car in a space-efficient and eco-friendly manner. In this blog post, we will explore some of the advantages of automated parking systems and how they can benefit you and the environment.

— Parkstory TilePark™ technology: simple and efficient innovation



The principle of the TilePark™ technology



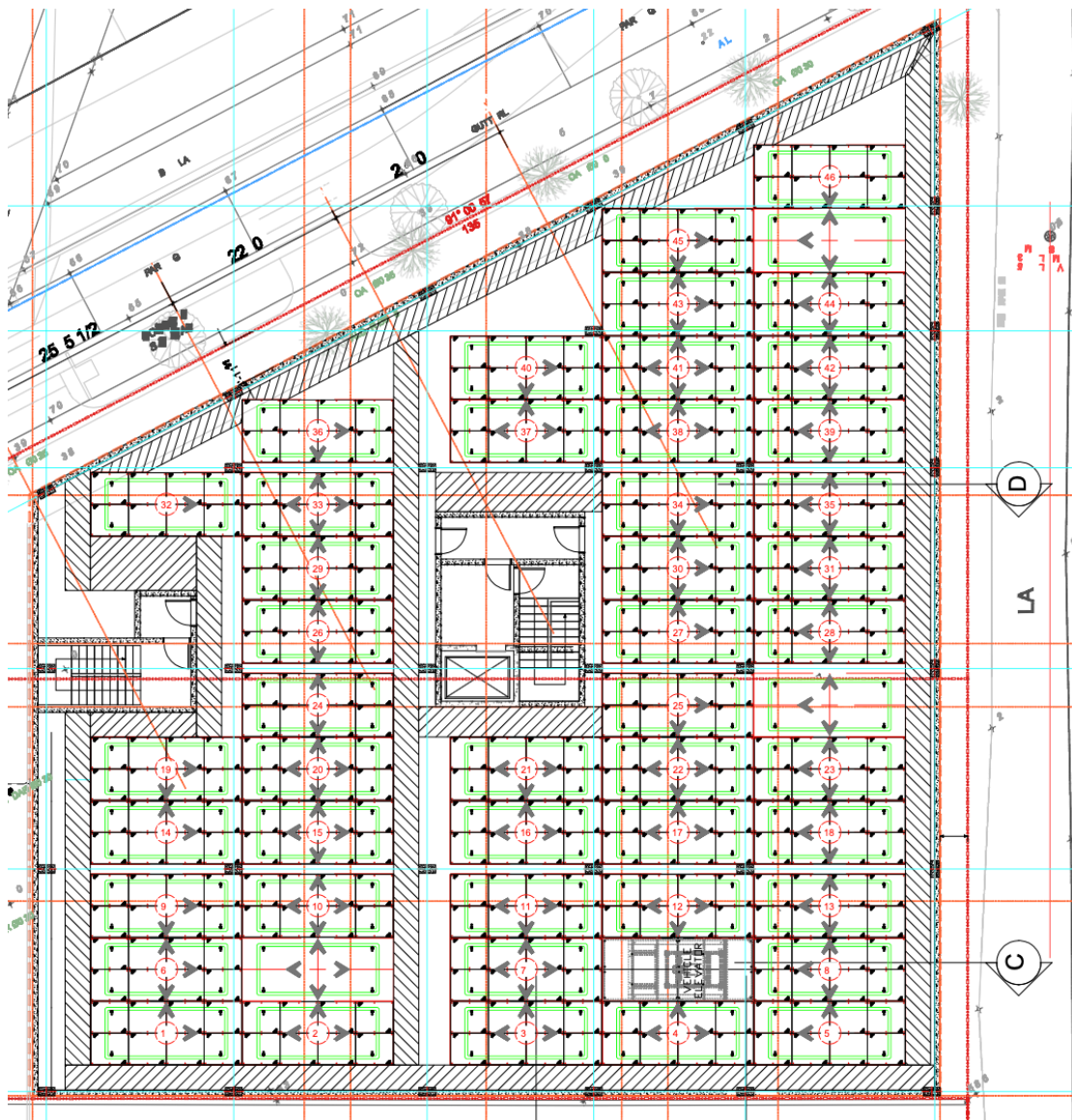
Example of an operational facility

Our parking system combines artificial intelligence with our patented TilePark™ technology, which works with pallets according to the puzzle principle, enabling fully automated parking on several levels side by side and behind each other, without ramps or tramlines.

Save Space

One of the main benefits of automated parking systems is that they require much less space than traditional parking garages or lots. According to **Parkstory GmbH**, a leading provider of automated parking systems based in Germany, they can accommodate the same number of vehicles in 50% less land area compared to conventional parking structures. This means more room for green spaces, communal areas, or revenue-generating features, without compromising on essential parking needs.

How do automated parking systems achieve such space saving efficiency? By eliminating the need for ramps, driveways, walkways, staircases, elevators, ventilation systems, and other elements that take up valuable space in conventional parking structures. Instead, automated parking systems use a lifting platform and a shuttle to park and retrieve cars automatically, optimizing the use of vertical space. The cars are parked in a compact and precise manner, reducing the gaps and wasted space between them.

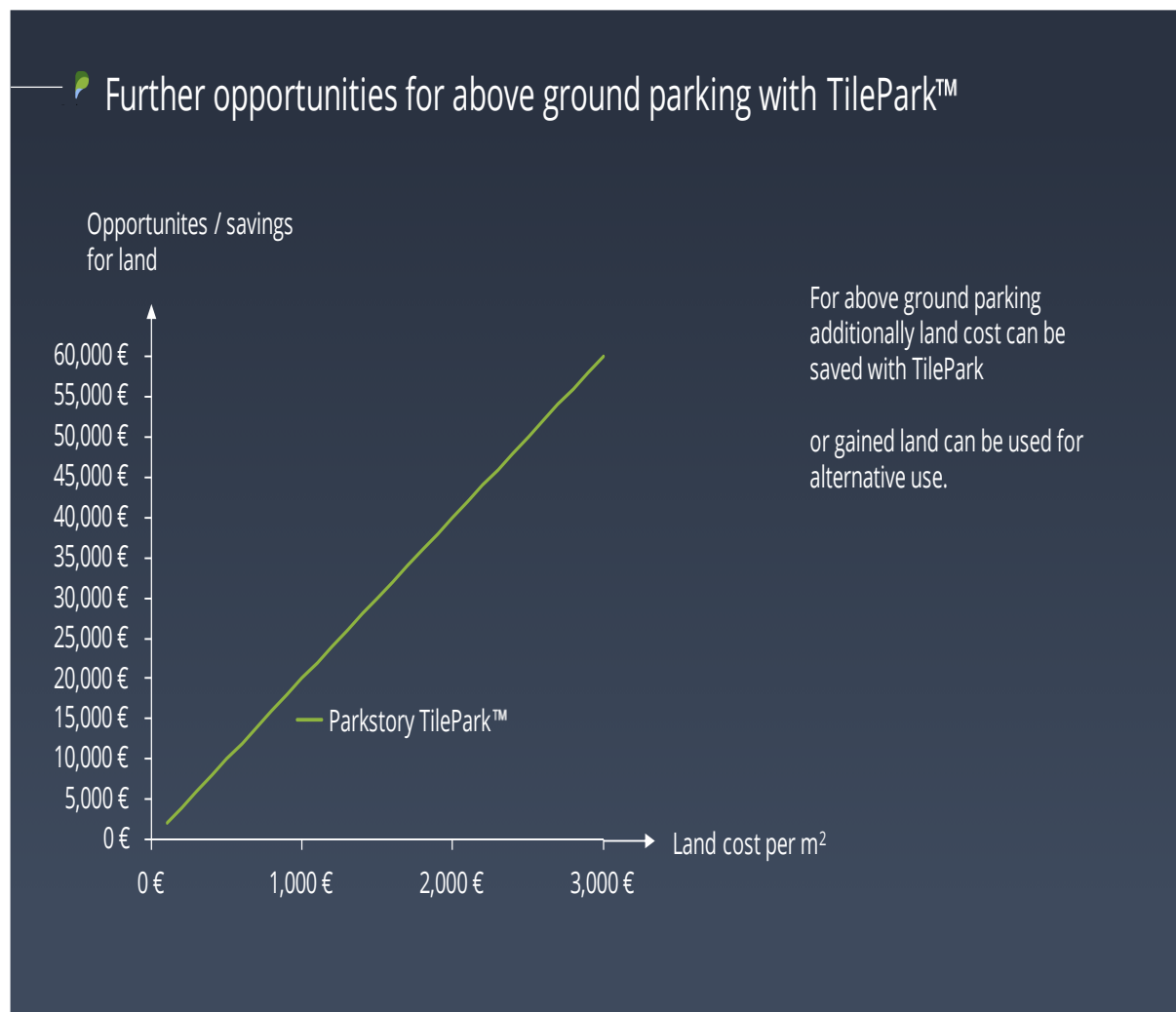


Save Money

Another benefit of automated parking systems is that they can reduce the costs of parking for both the owners and the users of the parking facility. For the owners, automated parking systems can lower the construction and maintenance costs of the parking facility, as they require fewer materials, less excavation, and less equipment than conventional parking structures. For the users, automated parking systems can lower the parking fees, as they can fit more cars in the same space, increasing the revenue potential for the owners.

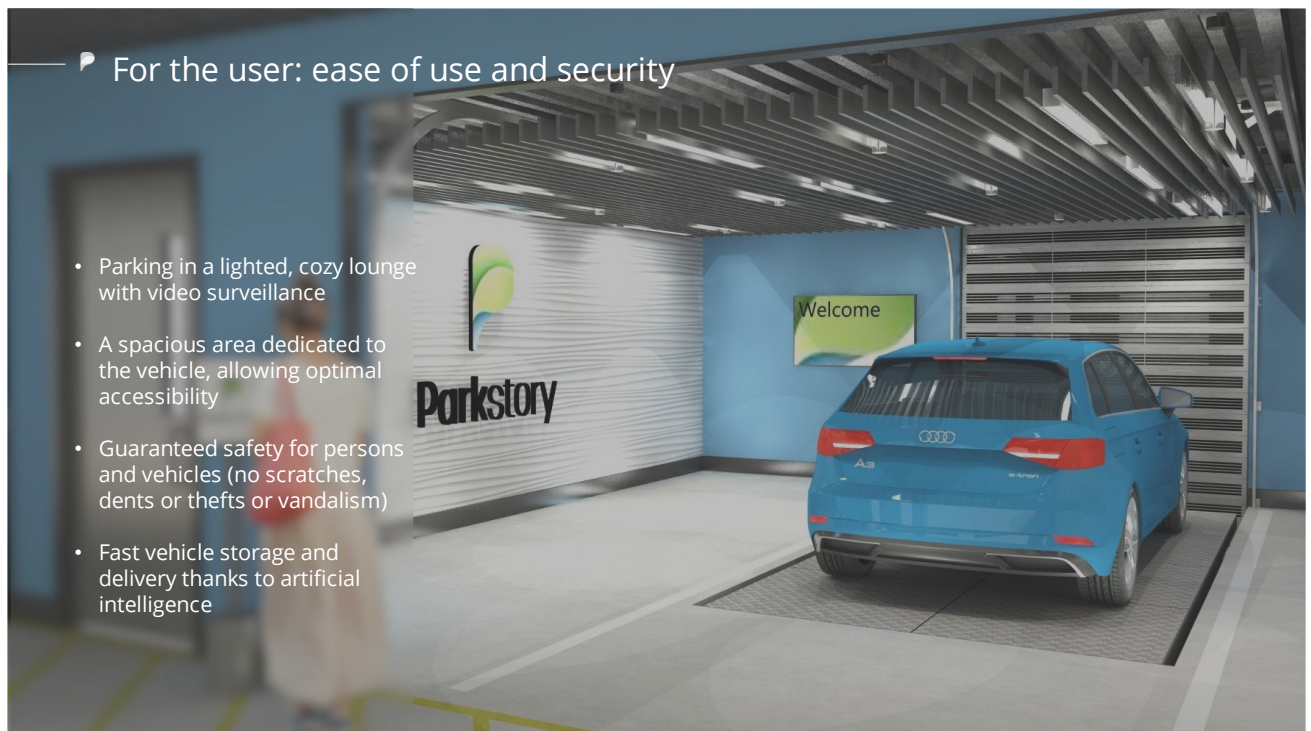
Automated parking systems can also save money by reducing the energy consumption and carbon emissions of the parking facility. Recent surveys concluded that automated parking systems can reduce the greenhouse gas emissions by over 80% compared to conventional parking structures. This is because automated parking systems eliminate the need for drivers to drive around looking for a parking space, wasting fuel and producing harmful emissions.

Automated parking systems also eliminate the need for ventilation, lighting, and fire safety systems that consume a lot of electricity and generate heat in conventional parking structures.



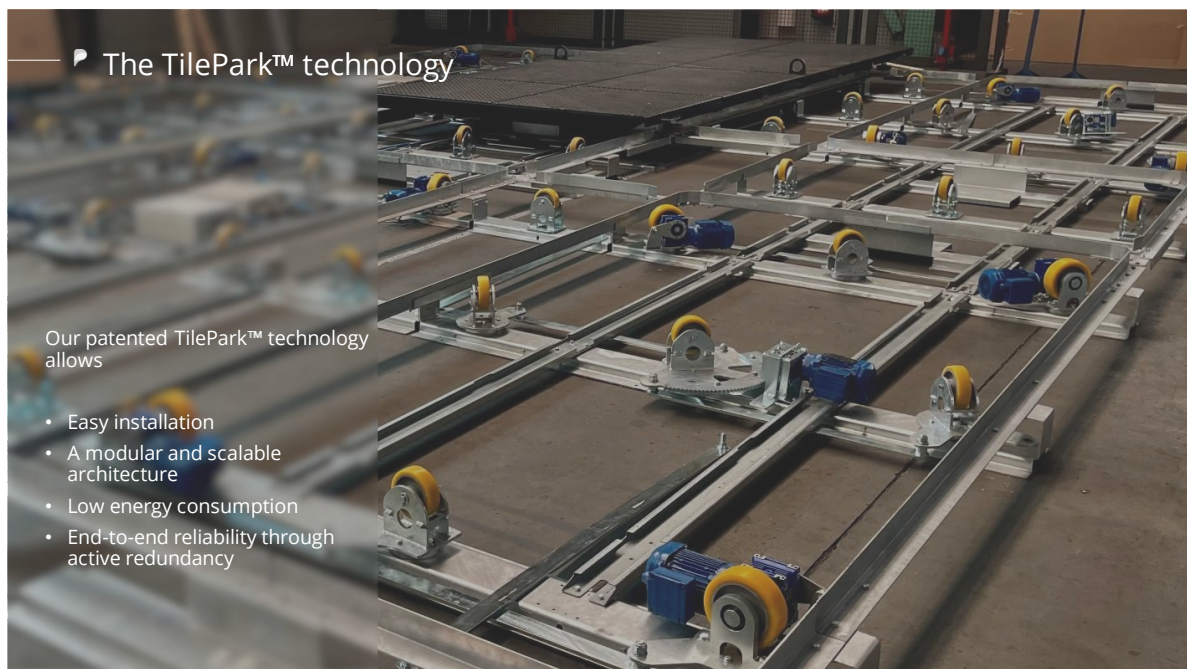
Save Time

A third benefit of automated parking systems is that they can save time for the drivers and improve their parking experience. With automated parking systems, drivers no longer have to search for a parking space, manoeuvre into a tight spot, or walk through a dark and crowded parking garage. Instead, they can simply drop off their car at a designated reception cabin at the parking facility and start the parking process using an app on a smartphone. The car will then be parked automatically by the system in a secure and convenient location. When the drivers return, they can wait for the car to be retrieved automatically by the system and delivered back to the reception cabin.



The Technology

Automated parking systems can also save time by reducing the waiting and queuing times for the drivers. According to **Parkstory GmbH**, the average duration of a parking process in an automated parking system is just 110 seconds with up to 20 reception cabins available according to the number of park spaces required. The system uses state-of-the-art scanning technology and proprietary management software to ensure the cars are parked and retrieved in the most efficient and optimal way. The system uses pallet technology, which means the cars are manoeuvred around on moveable pallets which reduces the risk of damage to the vehicles and malfunction of the system.

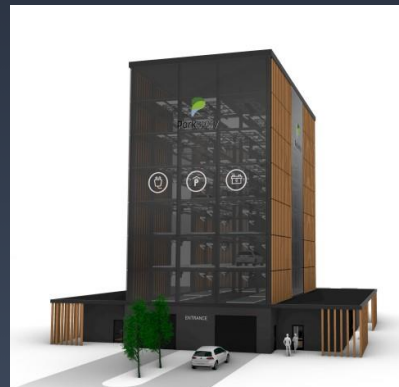


Charge Your Car

A fourth benefit of automated parking systems is that they can charge your electric vehicle (EV) while it is parked. This is especially convenient and efficient for EV owners, as they no longer have to worry about finding a charging station or waiting for the charging process to complete. With automated parking systems, the charging process is integrated into the parking process, making it seamless and effortless.

How do automated parking systems charge your EV? Each pallet has its own EV connection point and the vehicle's pallet moves to a charging station completing the charging process after which it re-locates to another parking position. These solutions will make EV charging more convenient and efficient, and will also contribute to the environmental benefits of automated parking systems.

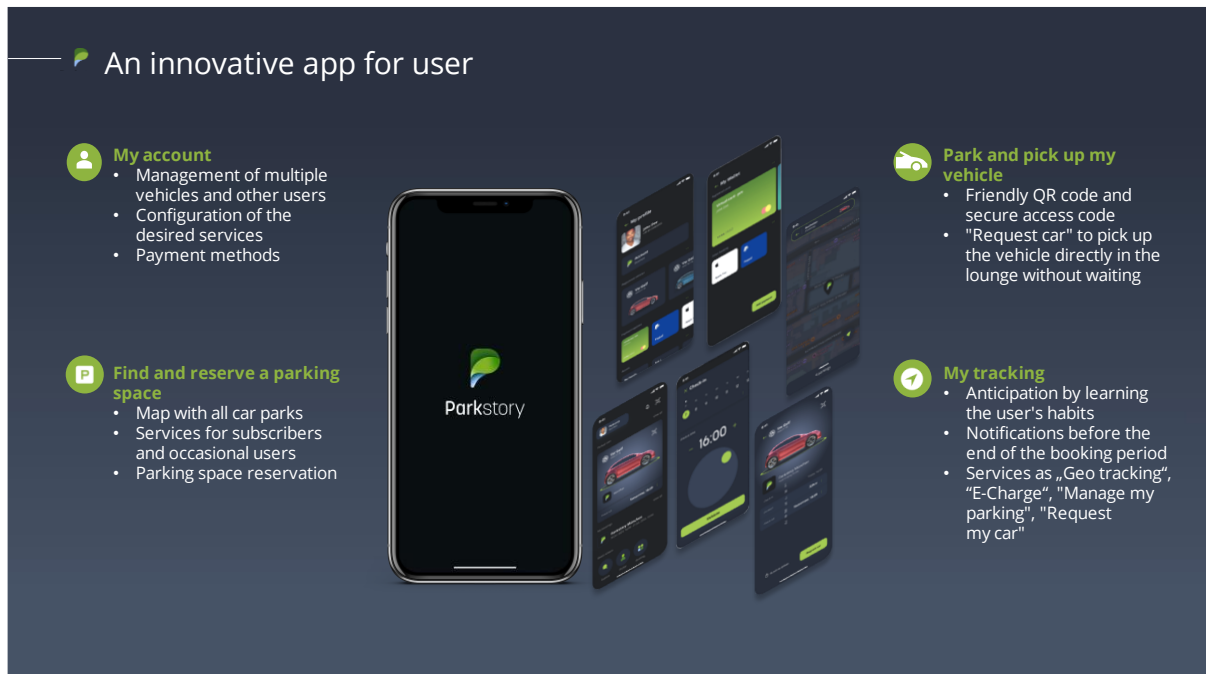
EV charging stations



- ✓ Up to 80 EV charging spaces inside the 'Parkstory EV tower'
- ✓ Charge while you shop, or just wait in the adjacent coffee/wifi lounge
- ✓ AC and DC available

Conclusion

Automated parking systems are the future of parking. They offer a multitude of benefits for both the drivers and the environment, such as saving space, money, time, and energy, while providing a convenient and comfortable parking experience. They also offer the possibility of charging your EV while it is parked, making it easier and faster to use an EV. With automated parking systems, parking will no longer be a hassle, but a pleasure.



An innovative app for user

- My account**
 - Management of multiple vehicles and other users
 - Configuration of the desired services
 - Payment methods
- Find and reserve a parking space**
 - Map with all car parks
 - Services for subscribers and occasional users
 - Parking space reservation
- Park and pick up my vehicle**
 - Friendly QR code and secure access code
 - "Request car" to pick up the vehicle directly in the lounge without waiting
- My tracking**
 - Anticipation by learning the user's habits
 - Notifications before the end of the booking period
 - Services as „Geo tracking“, "E-Charge", "Manage my parking", "Request my car"

If you are interested in finding out more on this subject, please contact Richard Paul, UK area manager of Park Story under the details below;



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