

A yellow Kia SUV is shown from a rear three-quarter view, positioned on a mechanical parking set. The car's license plate is 42-600-33. The background is a dark, industrial-looking space with concrete walls and a metal door. The title 'Parking Set' is overlaid in large white font, flanked by a blue diamond-shaped arrow pointing left and a yellow and green diamond-shaped arrow pointing right.

Parking Set

INNOVATIVE PARKING AND STORAGE SYSTEM OF THE 21st CENTURY

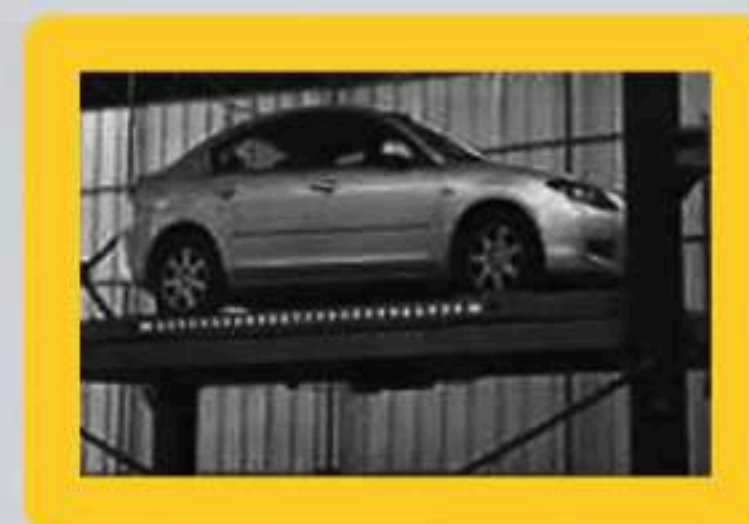
Reconstruction of mechanized parking lots using the Parking Set



Parking Set
Automatic Parking Solutions Group

Principles and Features of the System

The technology is designed in Israel. Modular, fully robotic system. Consisting of 4 standard, commercially available products.

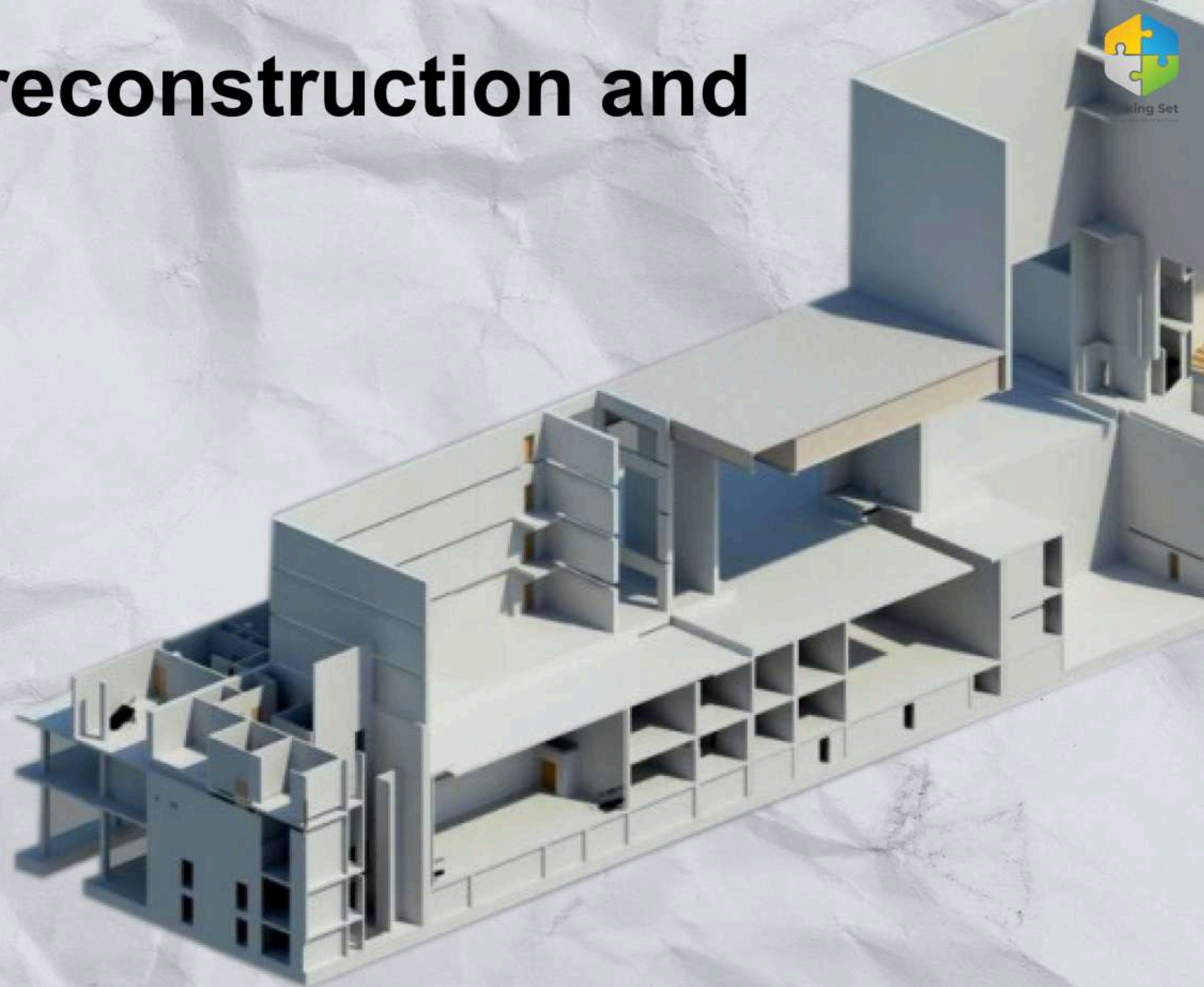


A facility requiring reconstruction and optimization



An integrated and buried parking lot for 93 cars at the cultural facility (theater), in one of the European capitals

The basic operating principle of the parking system in the facility specified is a central transfer mechanism (the carriage) of the corridor type installed between two layers of reinforced concrete floors located on several floors



The Project Description

The existing parking area for 93 cars is integrated inside the building, cars are stored on several floors on both sides of the transportation corridor. The lower tiers of the parking floors are located below Level 0.

The project uses the classic automated parking system with horizontal mechanism for moving cars located in the transportation space (corridor) occupying the entire central part of the parking lot along the entire height of the space. More than 30% of the effective parking capacity was lost: it is occupied by the transportation mechanism of the system.

Use of such a system makes the parking lot operation extremely problematic, especially during peak load hours, since the transfer mechanism can serve only one car at the time of operation. Correspondingly, all other customers line up.

In case of breakdown of the transfer mechanism, operation of the parking lot becomes impossible. The project uses the classic automated parking system with horizontal mechanism for moving cars located in the transportation space (corridor) occupying the entire central part of the parking lot along the entire height of the space. More than 30% of the effective parking capacity was lost: it is occupied by the transportation mechanism of the system.

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In case of breakdown of the transfer mechanism, operation of the parking lot becomes impossible.



Example of optimization using the Parking Set

Underground automated parking lot for 93 parking spaces

Using the capabilities of the Parking Set, it is possible to optimize the facilities where similar automatic parking systems of horizontal or vertical type were previously installed.

All available parking spaces on reinforced concrete floors along the transport corridor remain, but we install our equipment on them, making the distance between parking spaces as tight as possible.

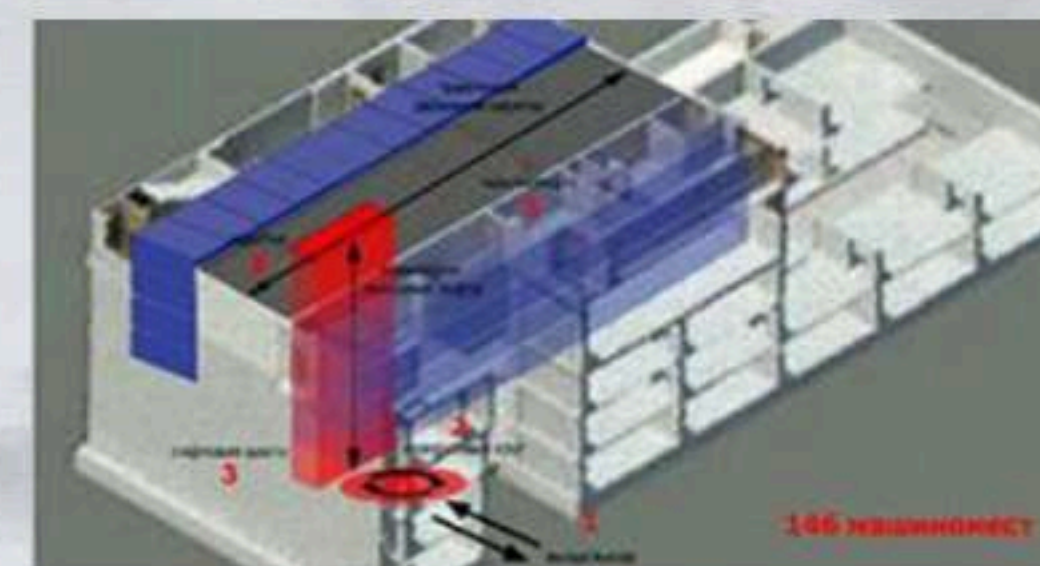
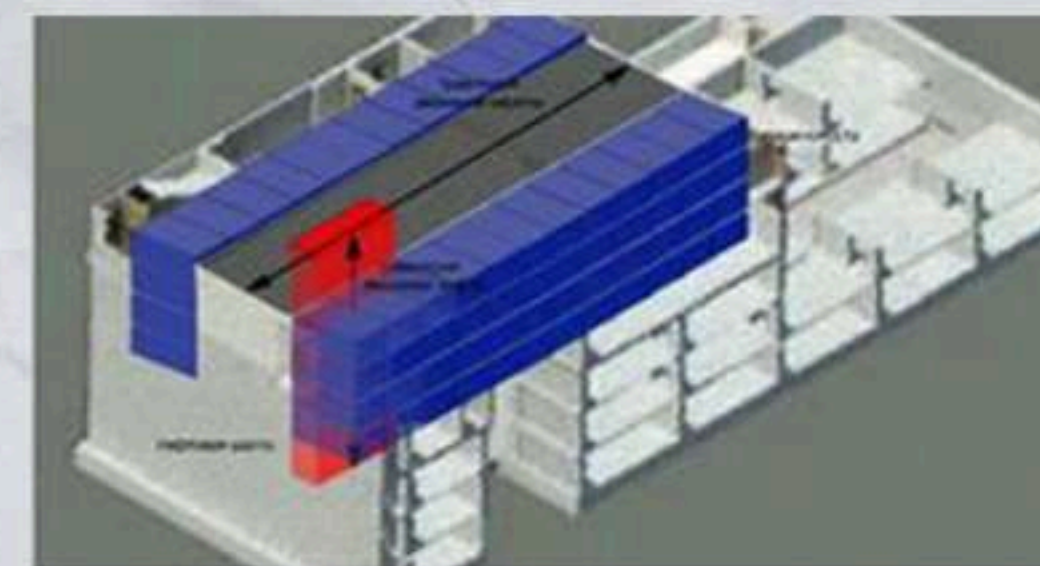
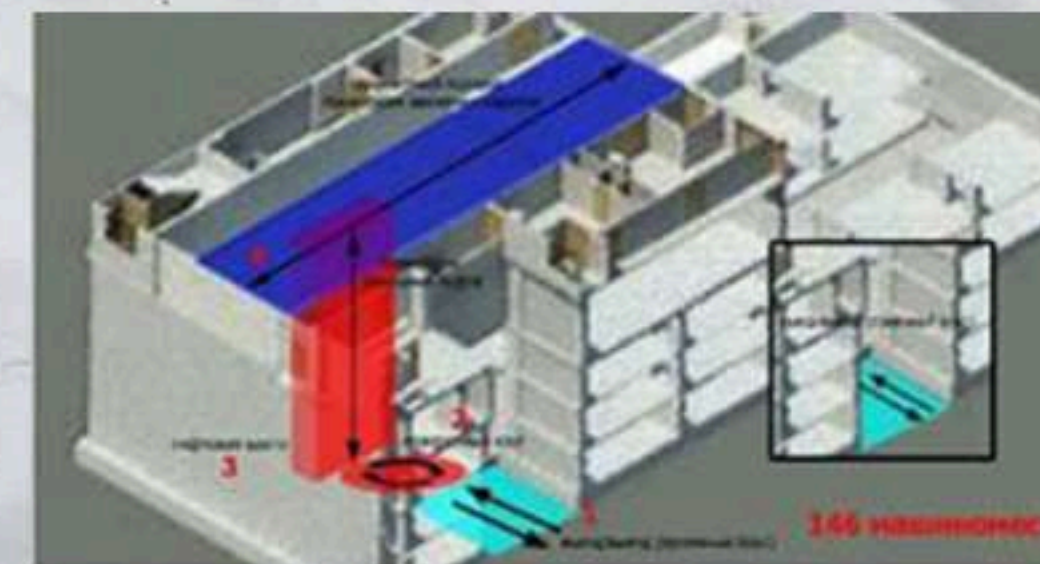
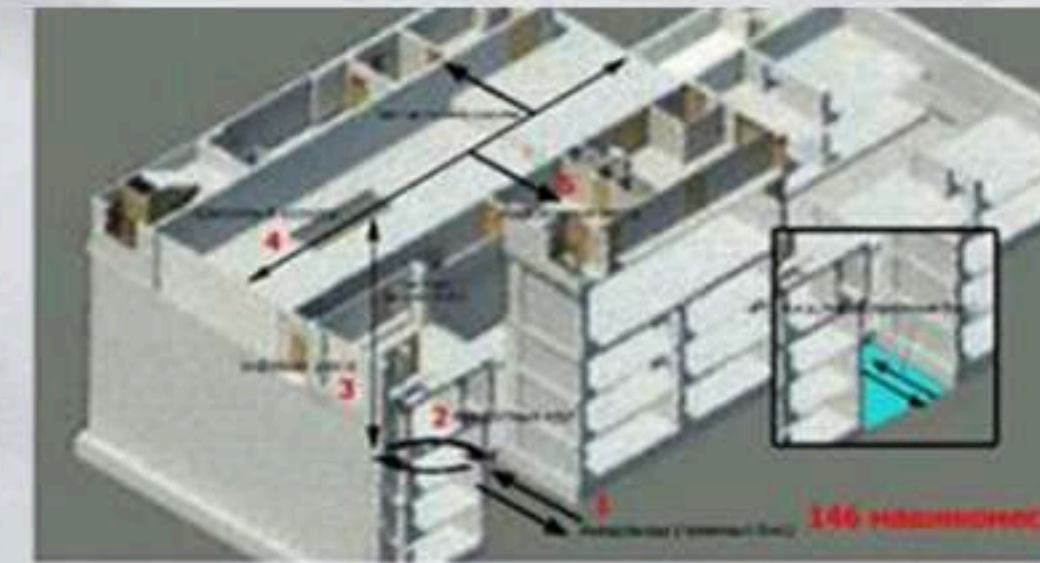
We remove the transportation carriage on each of the floors from the system; that results in clearing the corridor through which the carriage previously moved. This is more than 30% of the internal capacity of the parking lot.

The space cleared is filled with modules of our system:

inside the empty inter-floor space, we mount on the grid of metal support columns;

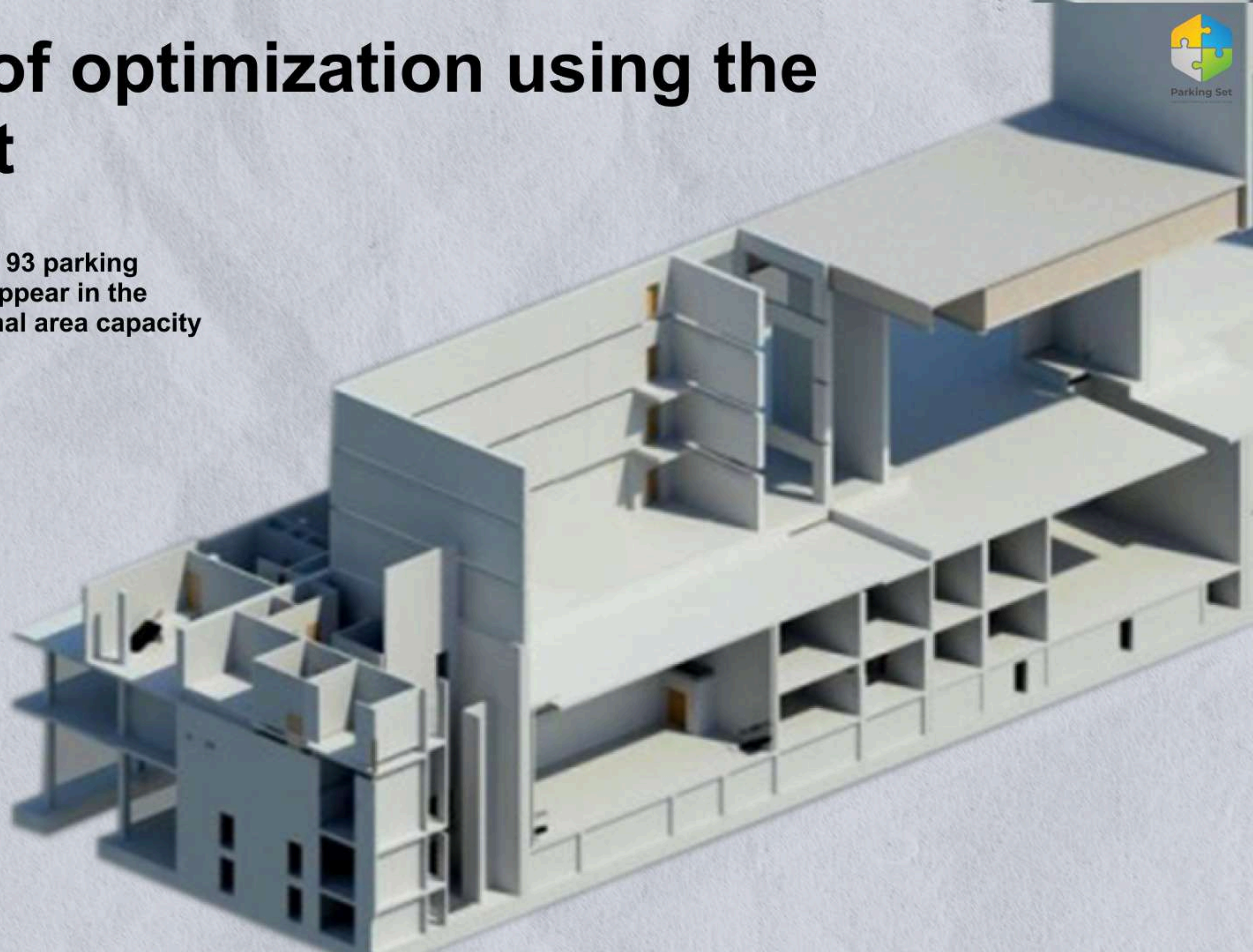
or fill the corridor space with concrete tiers, connecting the left and right parts of the floors with each other, thus creating single surfaces on each floor, and we fill the area created with Parking Set modules.

The number of parking spaces increases, service speed for customers improves, the risks of failure of the parking complex are minimized, since each unit of the Parking Set system is autonomous.



The result of optimization using the Parking Set

As a consequence, instead of 93 parking spaces, 146 parking spaces appear in the project, since the entire internal area capacity is used.



The result of optimization using the Parking Set



**Underground parking lot for 146 parking spaces in the facility where there were previously 93 parking spaces
The number of parking spaces increases: 93 parking spaces turn into 146 parking and storage units.**

The risk of inability to get cars from the parking lot in case of breakdown of the transfer mechanism (the carriage) is eliminated. Each Parking Set storage module is autonomous, we monitor the risk of breakdown remotely and, when detected, eliminate it before customers actually face it. Besides, our mobile app allows customers to watch online the entire process of servicing their cars as well as performing any service operation, for example, ordering the car to be retrieved at the time requested by the customer, or paying.

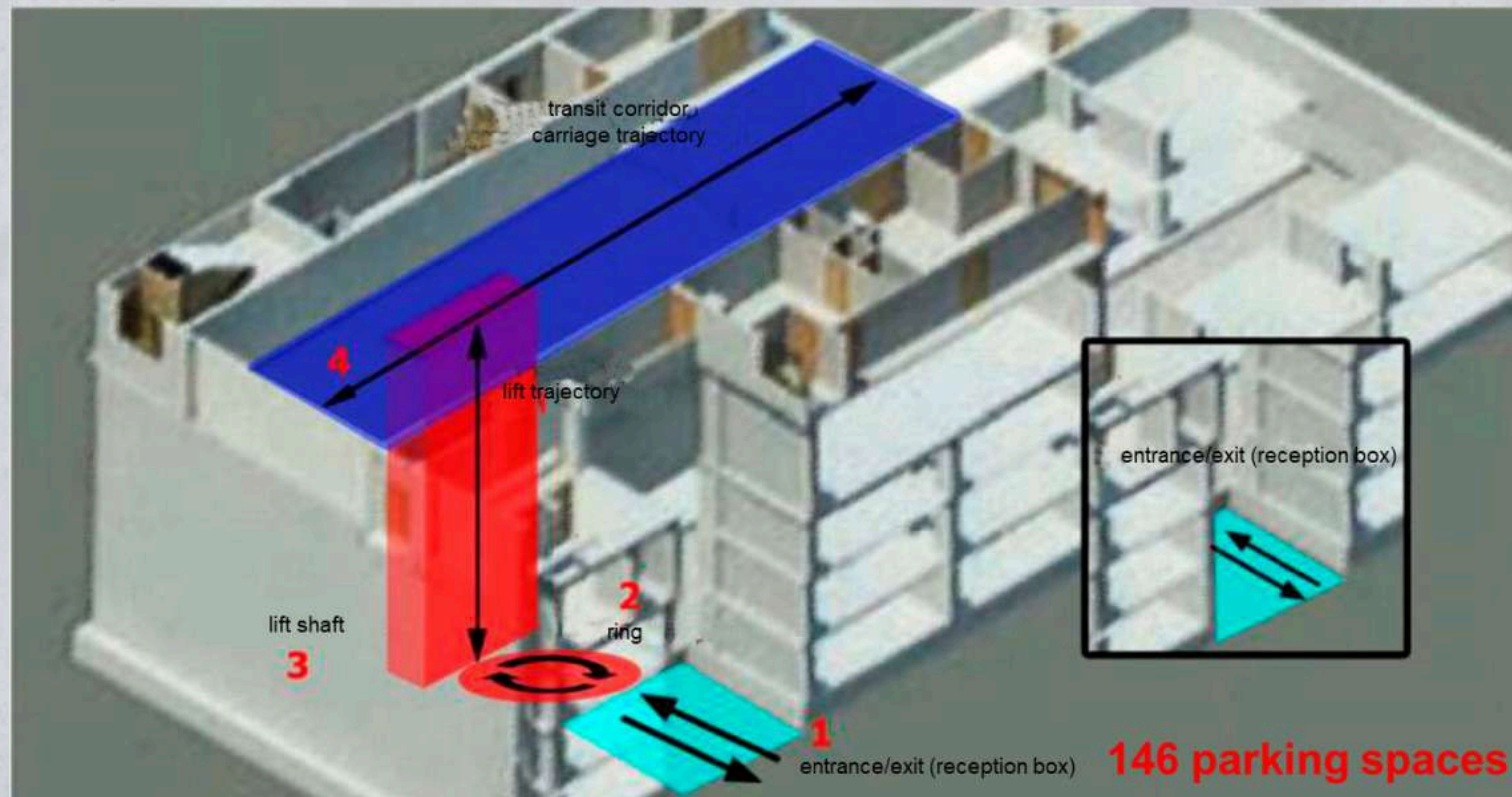
It becomes possible for the customer to get their car at any time quickly for retrieving something from it, for example, forgotten items, and then continue the parking process, which is not possible in other systems.

Service speed for customers increases greatly, since, unlike systems with one central transfer carriage, the Parking Set units work simultaneously.

(In competitive systems of previous generations, while the carriage takes the car from the reception box to the storage space or vice versa, delivers the vehicle from the parking space to the customer, the next operation is started only after the previous one is completed. Each Parking Set storage module is totally autonomous, operational processes of receiving and retrieving cars take place in parallel, so an unlimited number of vehicles can be serviced simultaneously.)

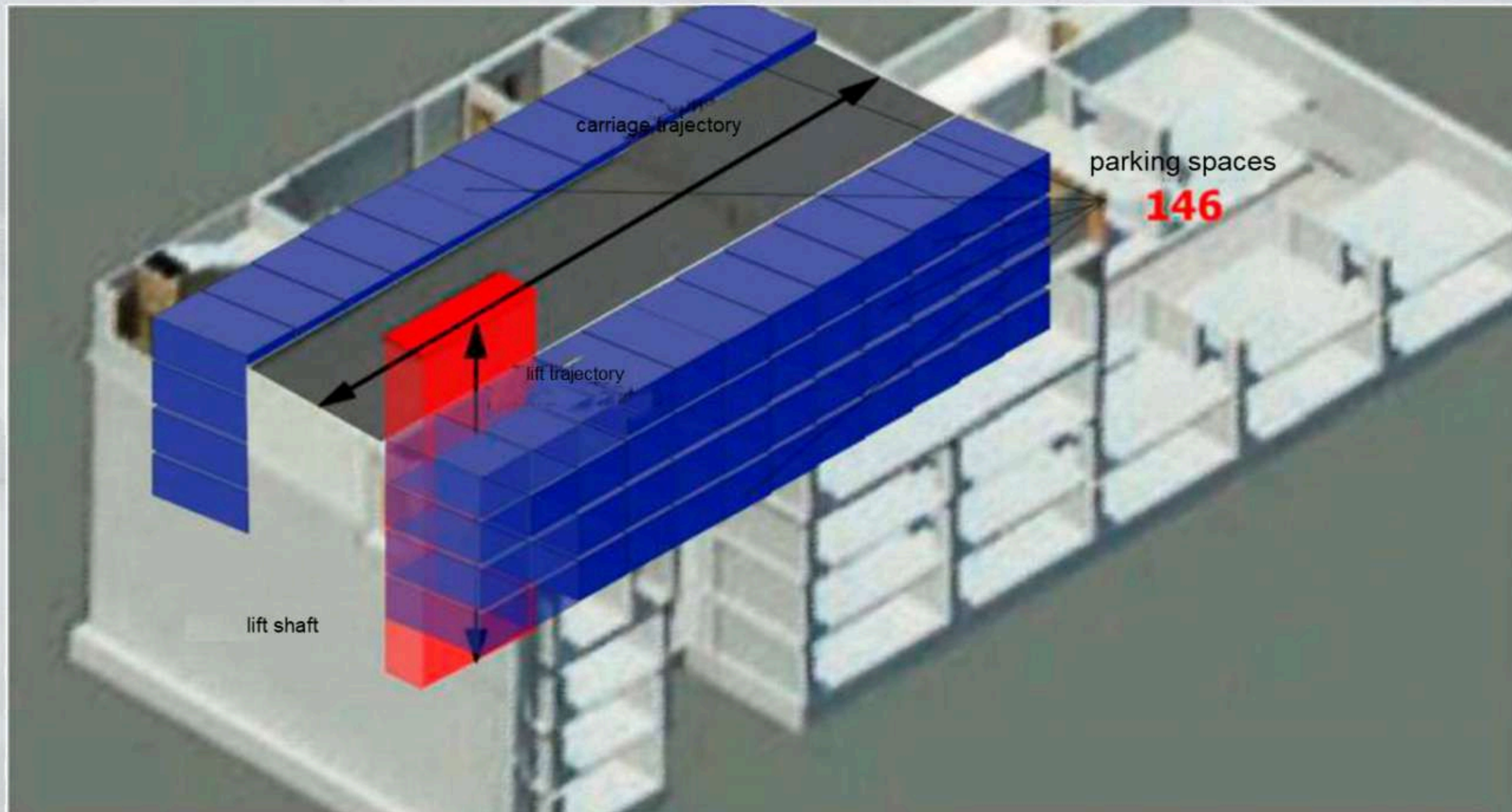
The result of optimization using the Parking Set

For customers, the process of using the parking lot gets easier. It becomes faster and more convenient for drivers: in the Parking Set, the only duty of the driver is to park the car exactly at the entrance to the reception box. No need to remove antennas, mirrors, etc. It is not even necessary to set the handbrake. Correspondingly, the entry and exit process speeds up. When the customer receives the car, the vehicle is always turned with its hood toward the exit.



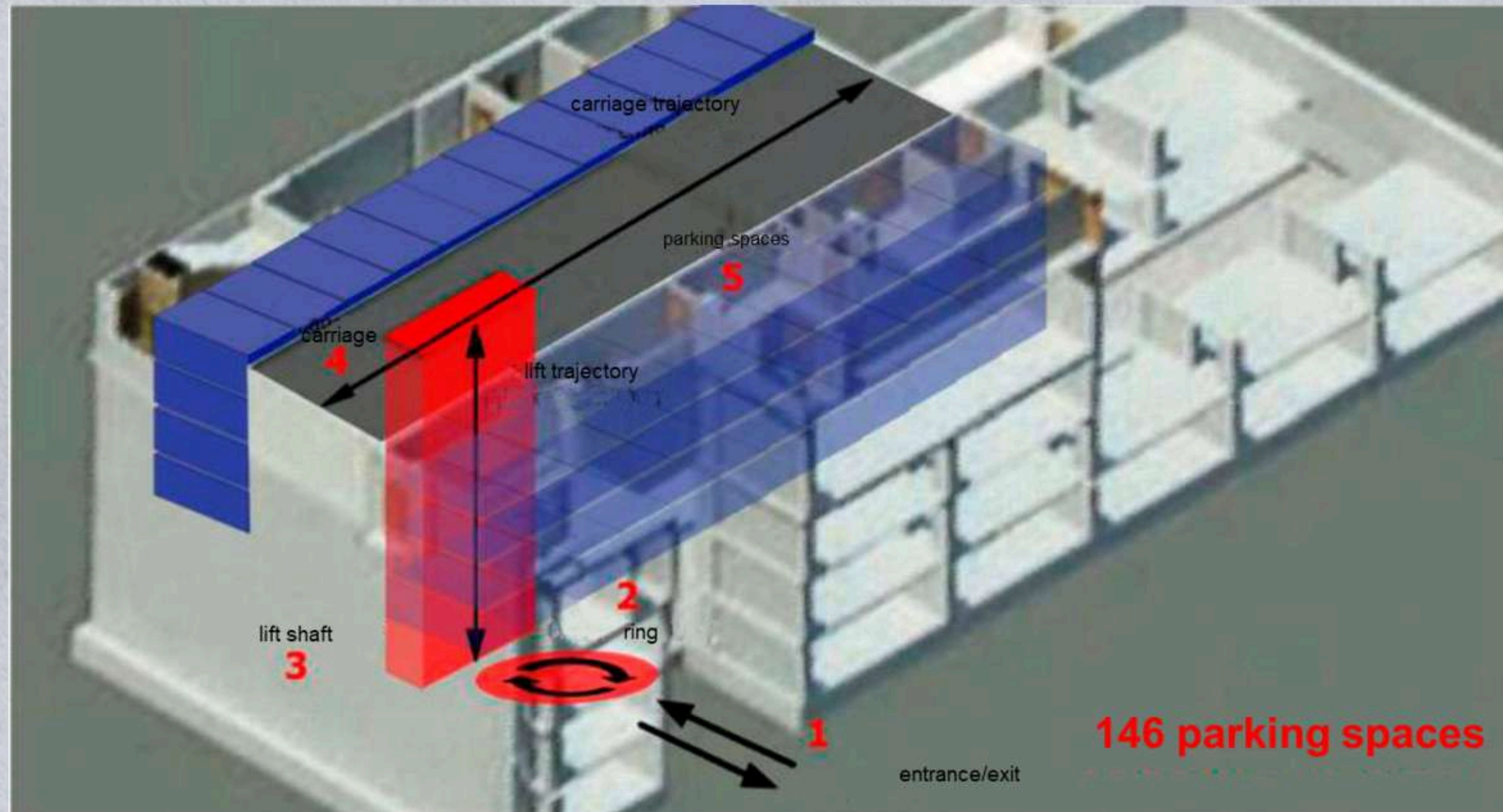
The result of optimization using the Parking Set

Each of the 146 storage cells can be used either as a parking space or for Self-Storage or as a safekeeping unit, since the Parking Set is a closed safe system for cargo storage



The result of optimization using the Parking Set

Maximum number of parking spaces. Optimization of the space use. Energy efficiency. Eco-friendliness. Multifunctionality. Maximum service speed. Reliability of the system operation. Convenience and safety of the parking lot for customers. Convenience of operating and controlling business processes.





Parking Set

Automatic Parking Solutions Group

We look forward to the start of our collaboration!

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