

A yellow car is shown from a rear three-quarter view, positioned on a mechanical parking set. The car's license plate is visible and reads '42-623-33'. The scene is dimly lit, with the car and the set's components highlighted. A large blue arrow points upwards from the bottom left, and a yellow arrow points to the right from the middle right. A green arrow points downwards from the top right.

Parking Set

INNOVATIVE PARKING AND STORAGE SYSTEM OF THE 21st CENTURY

Presentation Parking Set

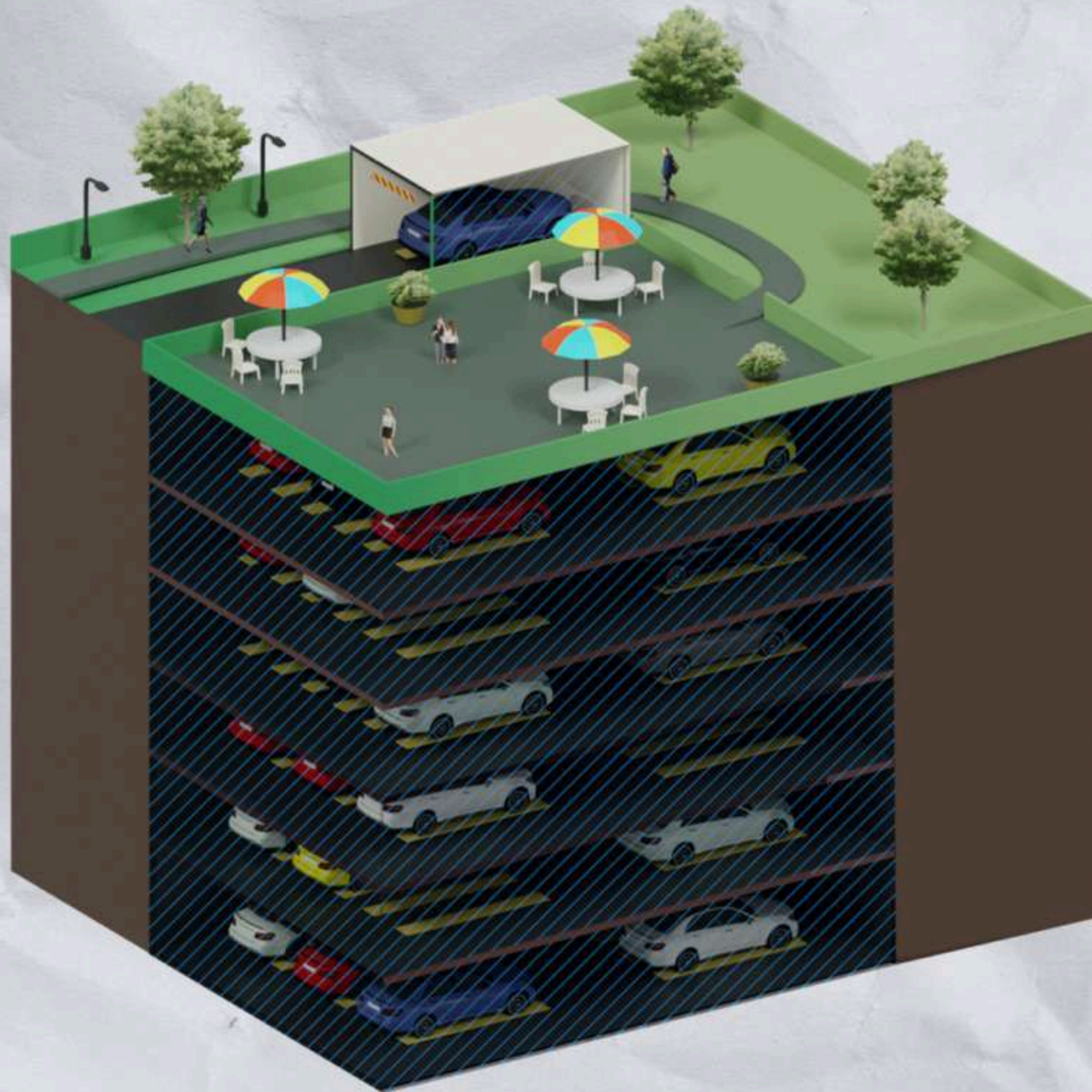


Parking Set
Automatic Parking Solutions Group

Mission and Priorities

Automatic Parking Solutions Group is an international team of professionals not only in the field of development, design, installation, operation, and management of automatic parking and warehouse complexes, but also professionals in the field of development, real estate management and urban transport infrastructure, investment and finance, law

We are focused on providing our customers with services for creating top-end, fully robotic parking and storage spaces, and building our own parking and storage network on the international market



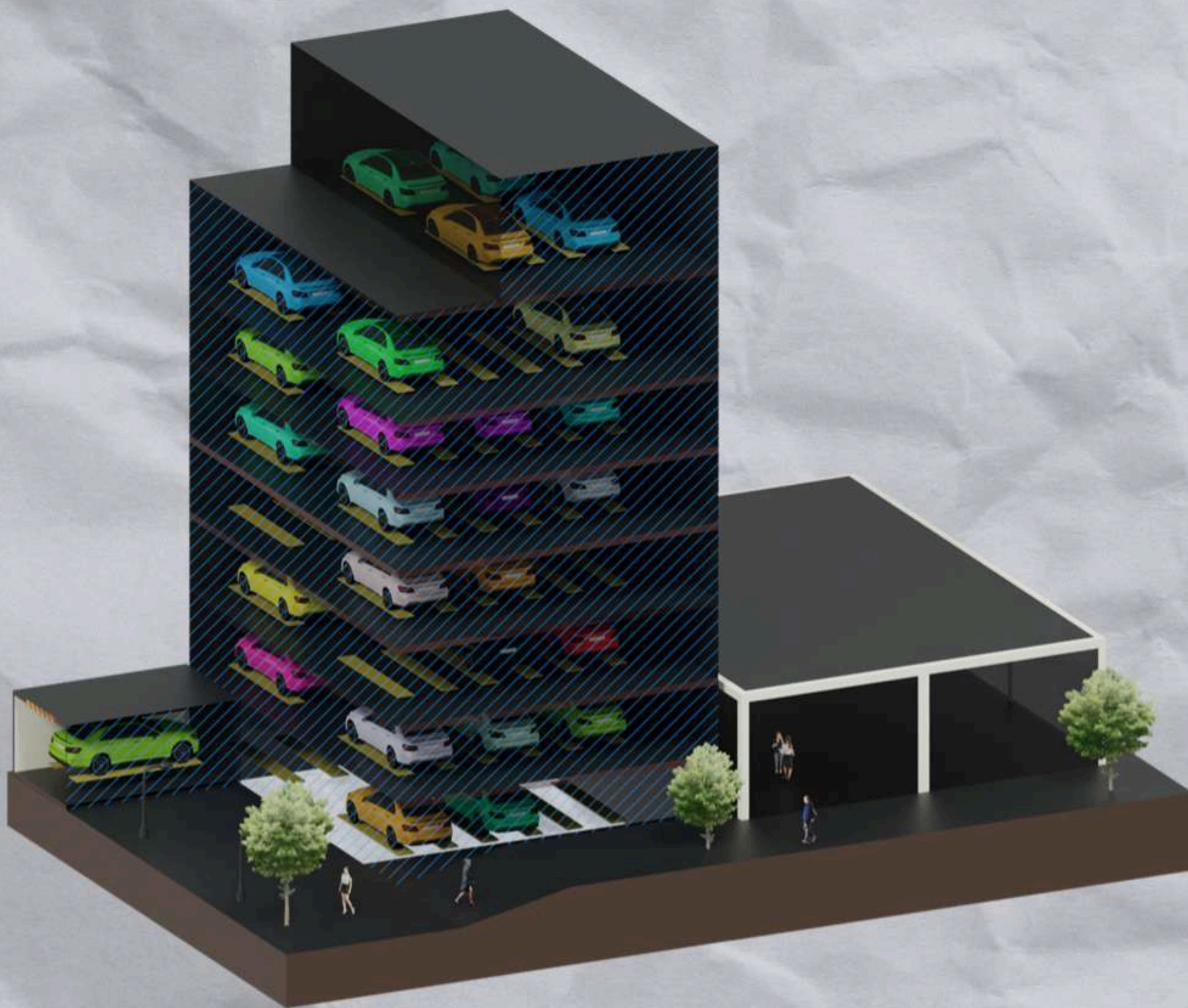


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Mission and Priorities

Our priorities are: comfort for customers and partners at any stage of collaboration, high quality of services provided, partnership with the industry leaders, and the use of cutting-edge innovative products

As an Israeli company, at all stages of our activities, starting with development of the technology, one of our main emphases is total safety for consumers and customers during the operation and use of our products and services



Market needs and current solutions

Rotary systems and Semi-automatic parking multipliers



Automatic parking in regular-type areas without special requirements for service speed and more parking spaces



Market needs, and the solution we offer

Automatic parking for multifunctional objects of complex configuration, including reconstruction and/or repurposing of real estate objects

Automatic parking with strict requirement for speed and density of vehicle storage

On the market, there were no real, versatile solutions until recently

Parking Set is an innovative breakthrough solution for creating automatic parking and storage facilities for warehousing vehicles and/or property in Self Storage mode in areas of dense development, historical centers of megacities, during redevelopment, reconstruction, or new construction. A perfect solution.





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What is Parking Set

Parking Set is an innovative algorithm designed in Israel for optimizing the use of space.

This innovative solution is used for automatic parking or property storage. Parking Set offers for residential and commercial real estate, enterprises and municipalities, the tools and creative solutions for the problems of chronic shortage of parking spaces. Parking Set allows the space of the parking lot to be increased without enlarging the area occupied. Applying our technological tools makes it possible to solve the problem of organizing the maximum possible number of parking spaces in any of the projects. These solutions include a model for creating parking lots in non-standard locations as well as ways to significantly increase vehicles storage volume, optimize their service speed, reduce electricity consumption and environmental impact while keeping competitive prices for our equipment.

We know how to make the most effective use of any space in the city, to remove cars from the streets and return the city to the people while creating additional, comfortable, and safe opportunities for them to enjoy private transport. Design, construction, installation, commissioning, maintenance of our equipment – we do all this in practice.



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Principles and Features of the System

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



Advantages and Capabilities of Parking Set

Furnishing the central districts of the city and metro stations with multi-purpose high-speed APSs (Automated Parking Sets) for 200–1,000 parking spaces with high vehicle storage density

Reconstruction of existing vast and multi-story garages and parking lots for multi-purpose high-speed APSs with high vehicle storage density

Equipping city buildings with compact (10–40 spaces) automatic PSs (usually built-in and/or underground based), designed for “closed user groups” such as residents of the building, office employees, and others. At the same time, our software can make the parking lots available for external users as well, if desired

Creation of parking and storage sets on the water area of rivers and lakes within city limits or in coastal city limits



Goals to be met using the Parking Set

Provision of public and private financing for the projects, creation of the APS and financing of leasing for the purchase of a space in the APS by end users

Ensuring real measures to forbid parking vehicles on street shoulders and key thoroughfares by removing cars to inside buildings and underground, thereby increasing the real capacity of streets and minimizing harmful emissions while combatting global warming

The uniqueness of the Parking Set technology:

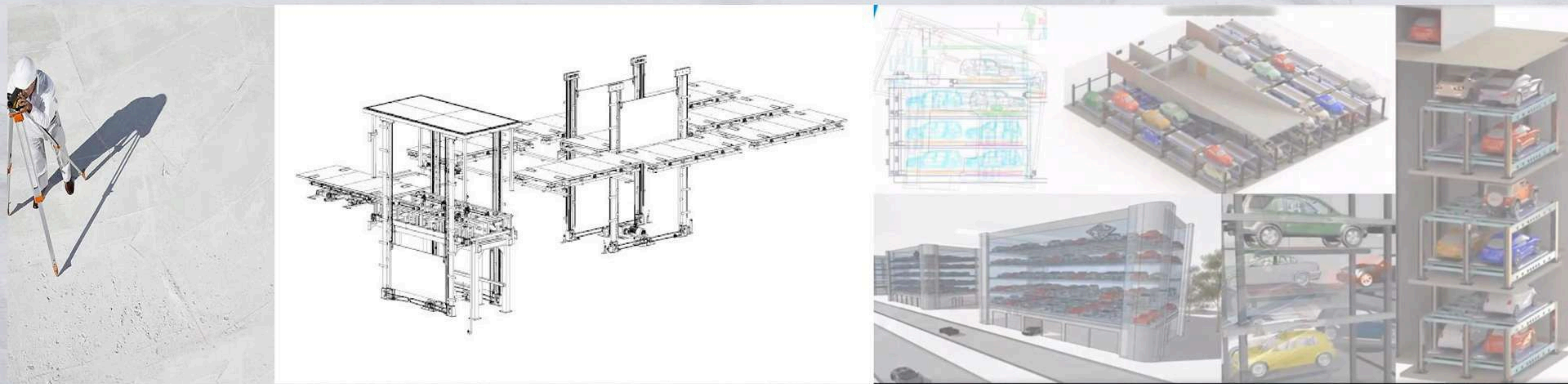
We implement those projects that our competitors do not want to

15 projects carried out in Israel using this technology, as well as all new ones, are distinguished by a complex configuration

The only fully robotic technology for storing transport and cargo permitting integration and network scaling within the Smart City concept

Unique Software

Logical planning (control algorithm).
We have developed a unique algorithm (machine learning) that “learns while moving”, that is, parking lot optimizes the vehicles delivery time by understanding the customers’ behavior in each parking lot, and thus the waiting time for vehicles is drastically reduced. The program optimizes the sequence and trajectory of the units movement inside the set for the purpose of reducing service time in the modes of receiving or retrieving storage units as well as the waiting time for customers.



Installation of other systems requires the creation of a reinforced concrete “base box”. They can only be used in large rectangular spaces or vertical reinforced concrete shafts. On the contrary, we “fit” units into the space of any shape using every millimeter of the area.

Examples of the projects implemented in Israel according to the Parking Set technology

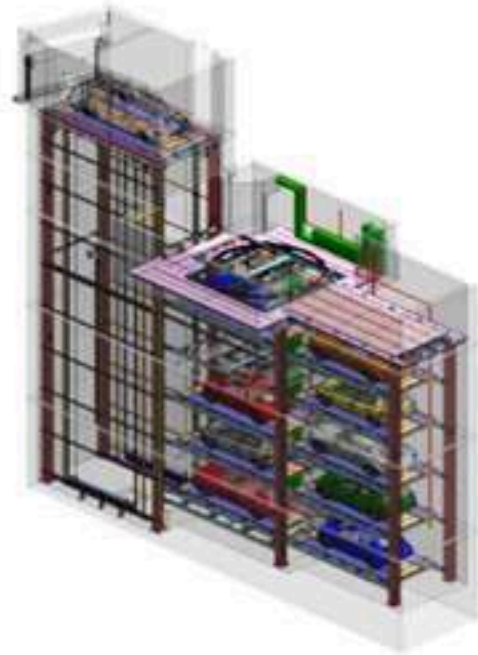
Due to the fact that in Israel, security rooms passing through all floors are arranged inside buildings, we were forced to learn how to bypass internal obstacles inside the premises.

The Parking Set units move like in Tetris game trajectories.

We are the only ones who work with projects where you need to fit equipment into complex geometric spaces or put a parking lot in the smallest area.

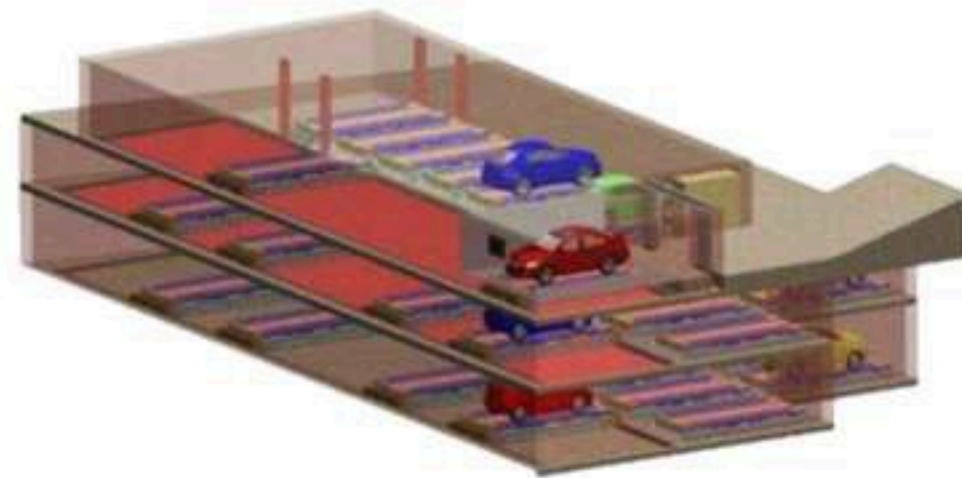
Project examples

Rothschild Blvd. 86 Tel Aviv, Israel - 10 spaces



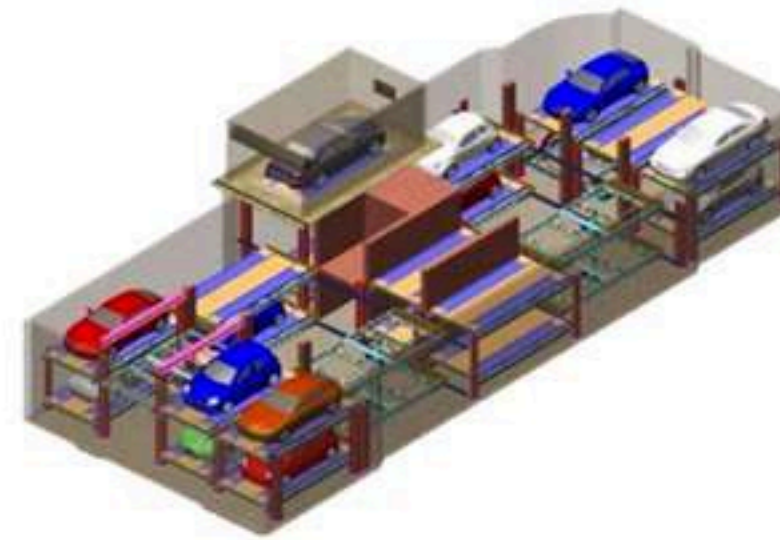
Project examples

Beit Eshel St. Tel Aviv, Israel - 45 spaces



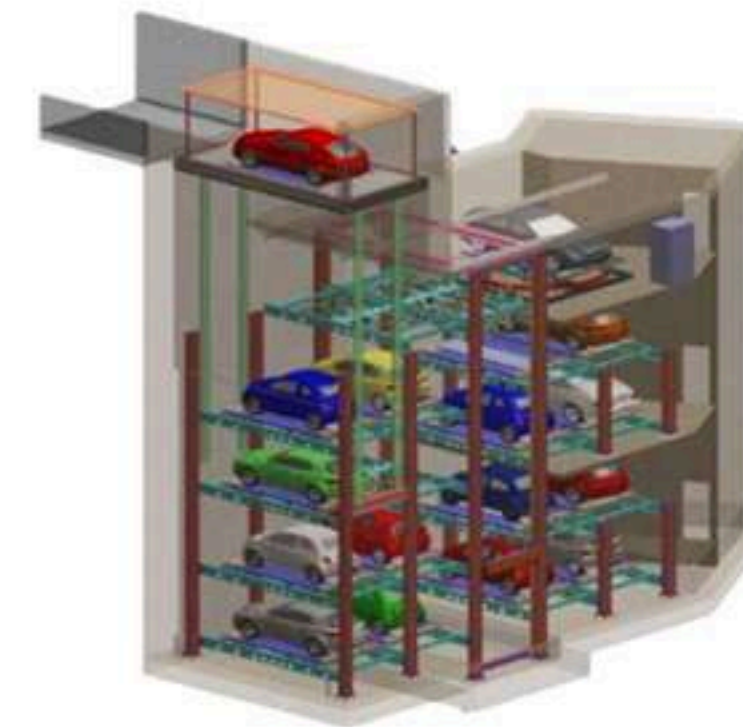
Project examples

Dizengof 77 Tel Aviv, Israel - 22 spaces



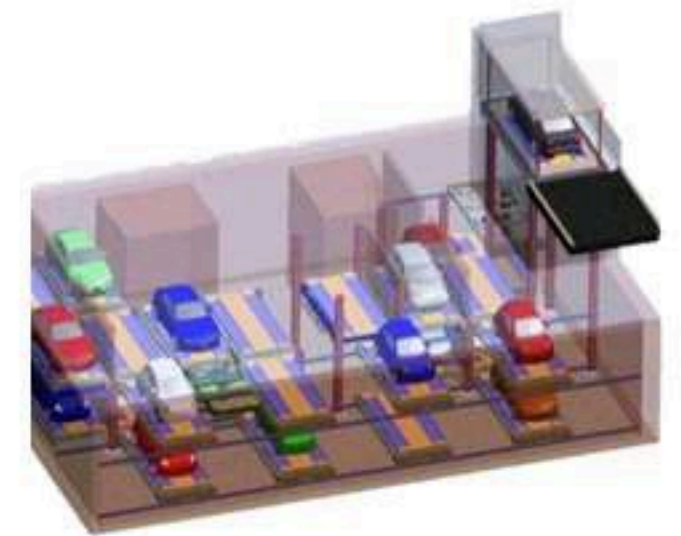
Project examples

Ir Shemesh 25 Tel Aviv, Israel - 16 spaces



Project examples

Prag 9 Tel Aviv, Israel - 26 spaces



We study the functionality of the facility and its peculiarities and create parking lots that correspond to the features of this particular building.



Examples of the projects implemented in Israel according to the Parking Set technology

Green Approach in the Parking Set Technology. Identified as Eco-Friendly Technology.

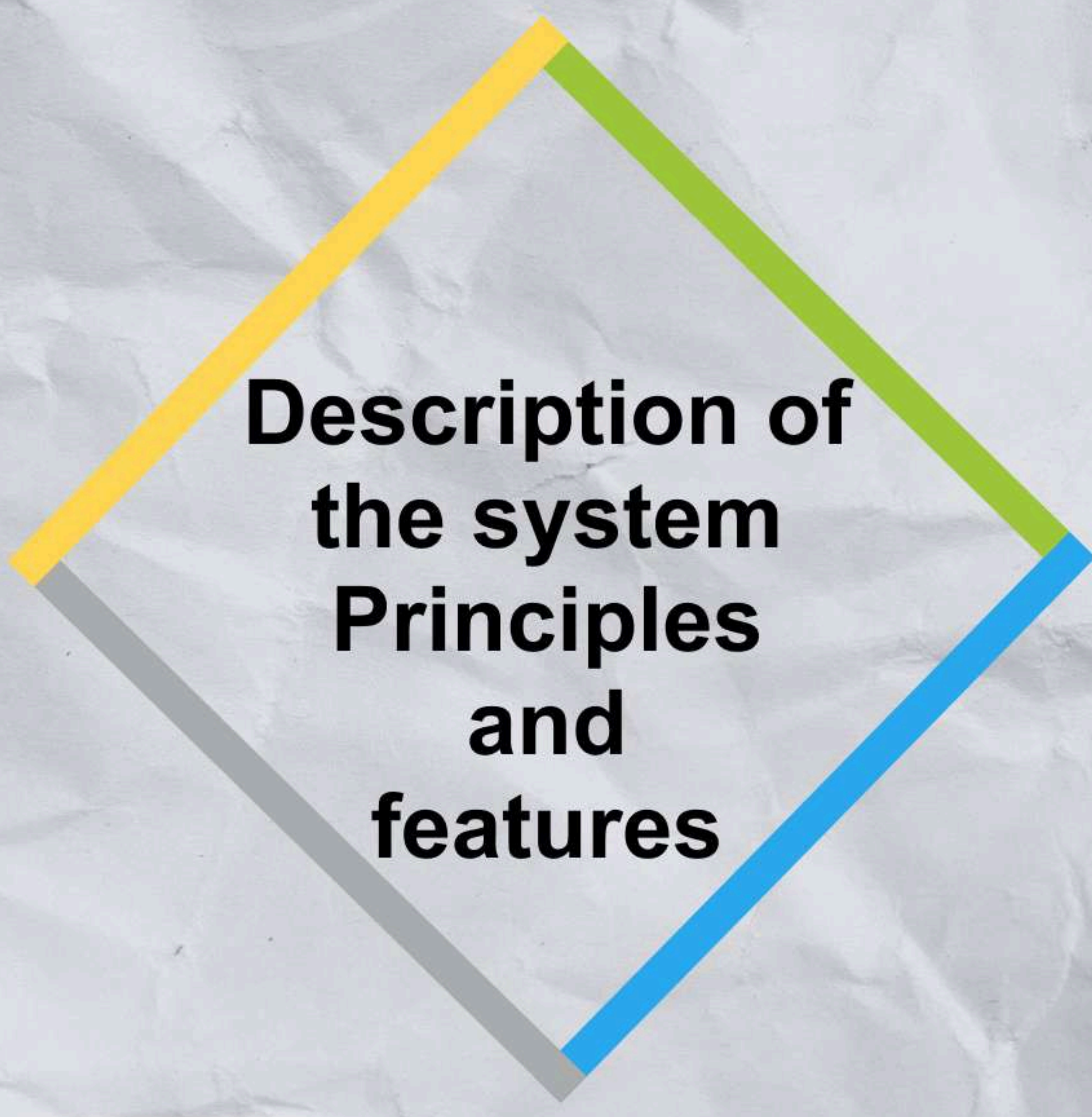
The system does not use open lubrication of parts or hydraulic and pneumatic systems

Fluids accumulated from vehicles during parking are collected and purified. The minimum level of noise and vibration is ensured when the system is operating

Reduced energy consumption compared to the competitors: using a large number of small motors to reduce electricity consumption controllers regulating frequency in the system are able to return 40% of the electricity used

All units are moved by means of electricity with the car engines off, thereby reducing the excess carbon exhaust that affects the health of a person in the parking lot or the emission into the environment and the atmosphere





Description of the system Principles and features

PARKING SET is a patented (*) modular system in which any parking lot is built from 4 types of commercially available basic modules. Reliance of both equipment and automatic support on a certain order is minimized. The system units are completely autonomous

The special control program provides multiple parallel operations and, correspondingly, high speed and reliability

The special patented algorithm () provides very high speed of retrieving and receiving cars (30–40 cars per hour per box), while maintaining an unusually high storage density coefficient (86–96%), compared to 50–65% in alternative automated parking systems claiming to be distant competitors**

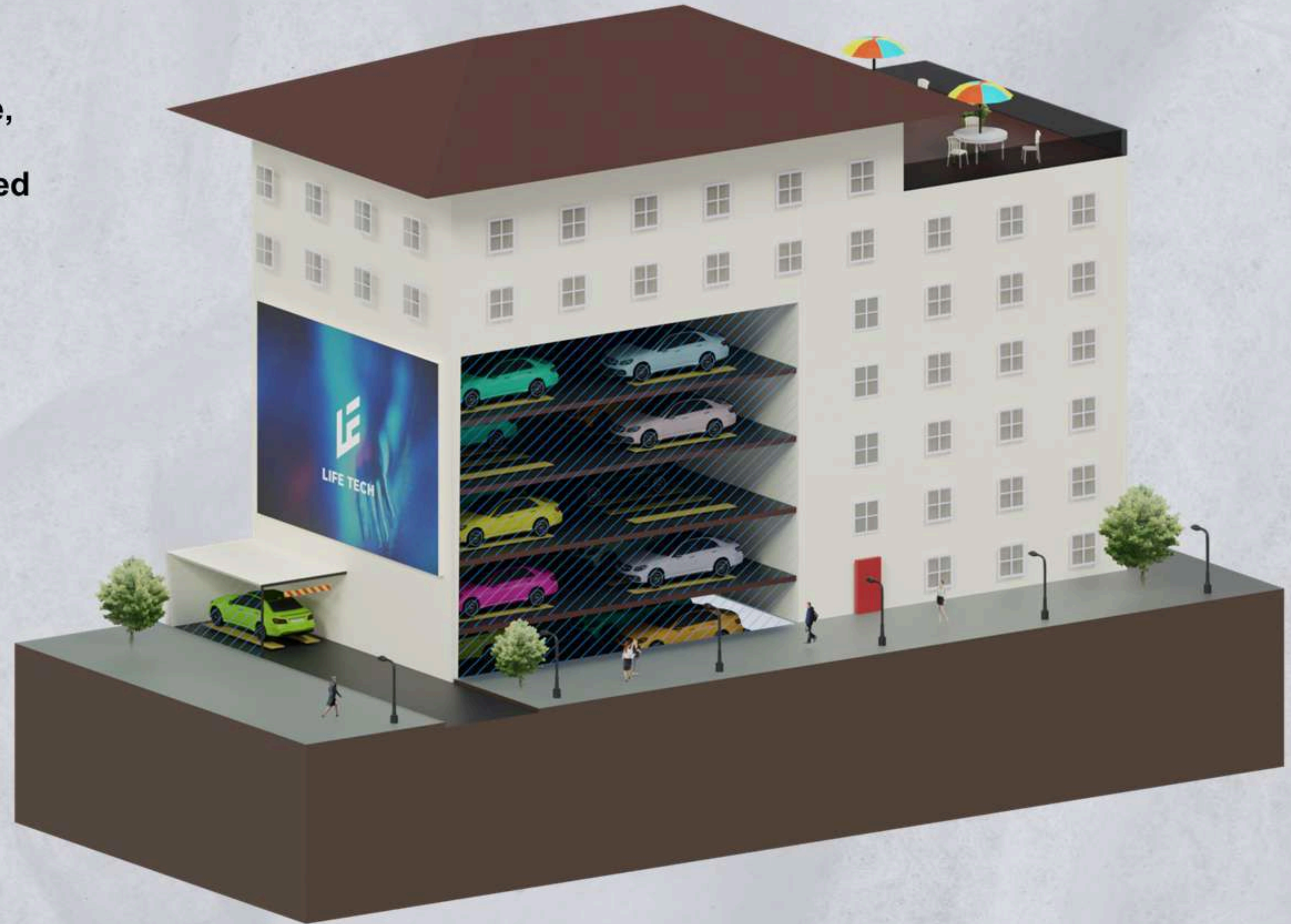
Our own mobile app making it possible for customers to see online the entire process of storing their cars during parking in our complexes; this allows customers not to worry about the safety of their cars

*** A Modular Multi-Dimensional Parking System**

**** A Method and System for enabling automated receiving and retrieving of cargo for Storing Purposes Modular Storage System**

Description of the system

All parts and assemblies are made of standard high-quality materials. They are simple, reliable, and repairable or changeable, if necessary
All assemblies are compact and can be delivered in standard containers anywhere in the world
Guaranteed probability of solving your parking problem is 97%. Providing more spaces and ensuring higher speed of the parking lot operation compared to any other technology



Description

The product was developed in Israel, where, since 2013, 15 projects of automatic parking complexes have already been completed using this technology, and we continue to work with new projects on an international scale

In partnership with the Skidata Company, we provide our customers, partners, and investors with a turnkey integrated solution for creating and comfortably managing parking spaces
Parking Set closed safe storage system +
Skidata access control system, management and collection of payments from an industry world leader



Standard Parking Solutions	Parking Set Solutions
<p>Efficiency of existing parking lots is under 50%. Only standard lots are available. Low capacity level (max. 60%).</p>	<p>Efficiency of the Parking Set solutions is 80%, capability for increasing its capacity is up to 94%. Possible inclusion at almost any facility. High capacity level (94%).</p>
<p>Step-by-step operations. As a result, the waiting time for sending a vehicle to a parking space and returning it from there is long. The parking operator is restricted by the level and size of the parking lot. Everything happens slowly and in sequence.</p>	<p>Parallel work at all stages of operation. The waiting time is comparatively shorter. No restrictions on the garage level size and height. Parking as well as returning from the parking space run very quickly due to the autonomous operation of all units.</p>
<p>Systems are sensitive to malfunction. If some equipment components malfunction or break down, the entire parking facility comes to a halt. The biggest vulnerability is carriage jamming during a malfunction.</p>	<p>Any malfunction or breakdown does not interfere with the normal operation of the complex. All processes are duplicated for safety purposes. Total failure of the complex because of breakdown is completely impossible. The parking lot continues to run reliably even in case of malfunction or breakdown of one of the units.</p>
<p>Limited use functionality. Combined real estate objects cannot be maintained properly. Only parking systems. If non-standard spare parts are required: an individual option by request will be very expensive.</p>	<p>The system is totally versatile and capable of maintaining combined facilities at a high level. Automated parking lot and automated warehouse can be constructed in the same space. Only standard elements are used, inexpensive commercial production.</p>
<p>The smallest area for building the parking lot is 40*60 m. Use in projects with complex geometric shape is impossible.</p>	<p>The smallest area is 12*20 m. Created for use in complex configuration projects.</p>

Competitiveness

The increase in capacity is by at least 30% compared to competitive parking systems of previous generations

The increase in vehicle service speed in the parking system is by 70% more than the competition

Competitive price

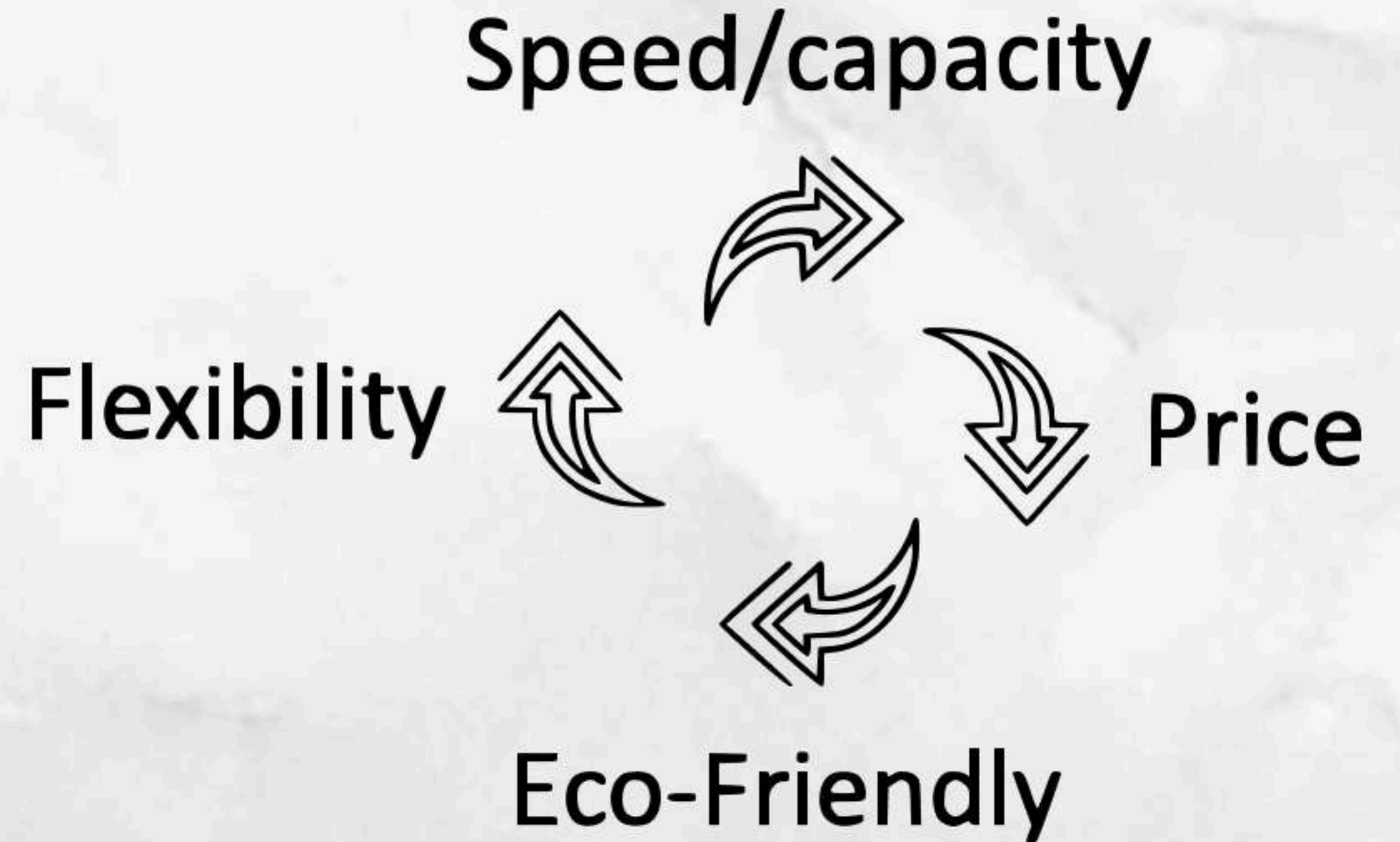
Eco-Friendliness

Reduction in electricity consumption by 3 times

Reliable operation and resistance to breakdowns

Multifunctionality of application and use

Flexible solutions, suitable for almost any real estate object (including non-standard spaces, triangular, circular areas, and areas alternating with parking sectors)



Competitiveness



Universal opportunity for building parking spaces with the necessary storage density and service speed in any type of real estate objects, and taking into account all individual features of the particular project, during new construction or at existing locations and operated facilities.

Universality of possible location of the complexes to be created within walking distance of users: above ground, underground, in buildings, on the roofs of buildings, at the blank walls of buildings, on adjacent territories.

Universal opportunity for use in projects of complex geometric configuration and extremely limited spaces of complex configuration.

The maximum possible number of parking spaces in any project, which is especially effective in underground construction or restricted building footprint.

Variable use: parking lot, warehouse, lift, transport system, car dealership showroom, etc. Combining options within the same project is possible.

**Energy efficiency. Low noise and vibration levels when the complexes are operating
Eco-friendliness. Reduction in harmful emissions. No aggressive oils or lubricants in the equipment.
Innovation and patent protection.**

Comfort of use, Service speed, Safety, and Reliability.

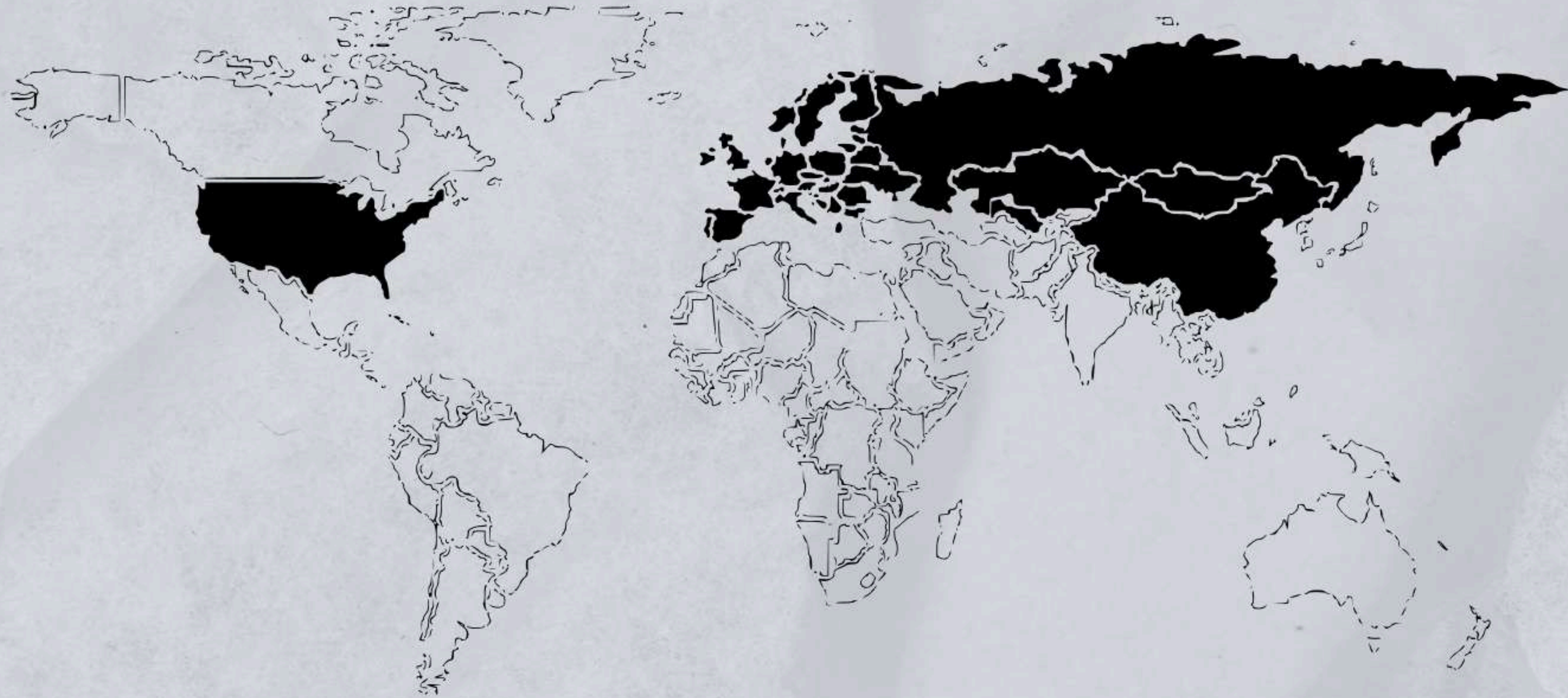
Convenience and transparency of business processes for the operator's managing company and owners.

Opportunity for network scaling within the Smart City programs, creating parking lots of the capacity required in this location in buildings, next to them, or underground, removing cars from city streets.

Warranty and post-warranty servicing.

Geography

Our patents are valid in
Europe
the United States
Asian countries
on the territory of the Russian Federation and the CIS





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We look forward to the start of our collaboration!

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