



Interparking presents:

Renovation of the underground car park Inter



Category 2 – Car park “Inter”– Bucharest, Romania



LOCATION

- The “Inter” car park was originally built at the end of the 1960s, as part of a complex urban space improvement project, which included the National Theatre and the “Intercontinental” Hotel, just across the University, in downtown Bucharest.
- The University Square is one of the major crossings in the town, well served by public transportation and a Metro line; it is also a preferred “rendezvous” location for both young and elder people.



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RENOVATION PROJECT

- This public car park has 2 underground levels, with 969 spaces. After being purchased by the Interparking Group, in March 2013, it was subject to a substantial renovation which lasted more than two years, during ongoing operation (until September 2015).
- The goal was to perform a complex renovation and upgrading of all equipment & installations, in order to fully comply with the latest requirements – but also to fulfil the customers expectations

⬇ *Before and after renovation* ⬇



IMPROVED STRUCTURAL FEATURES

- All existing 5 access ramps have been fully refurbished, and an efficient de-icing installation was incorporated (for safety).
- The slab at level -2 was partially lowered and re-consolidated in order to ensure a height of 1,95 m (versus only 1,80 m before).
- Traffic lanes inside the car park were redesigned in order to improve the flow and minimize any risk of collision.

↙ *Before and after renovation* ↘



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STATE-OF-THE-ART LIGHTING SYSTEM

- The old lighting system consisted of fluorescent tubes; the new one is LED-based with DALI lighting management. Light intensity is automatically adjusted depending on customer behaviour, and thus extremely power-saving.
- Moreover, the use of concealed lighting fixtures with improved horizontal dispersion makes the car-park seem “taller”, which enhances the well-being of our customers.

↙ *Before and after renovation* ↘



NEW TECHNICAL EQUIPMENT

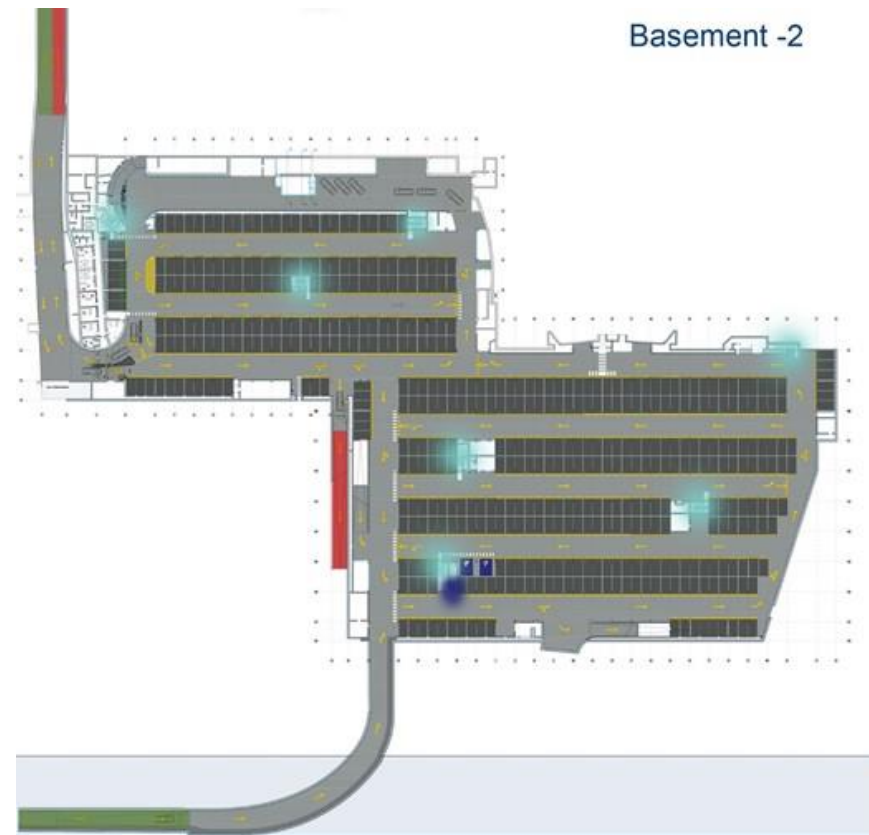
- Each and every equipment/system was replaced or upgraded to the newest version; this includes all fire protection, ventilation, electrical and CCTV systems.
- A new parking management system, complete with licence plate recognition was supplied and installed by Scheidt & Bachmann. Single space sensors clearly indicate empty parking spaces, thereby reducing the search time and enhancing the comfort of our customers



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LAY-OUT, ROUTING & ORIENTATION

- For pedestrians there are 7 staircases, plus an additional access adjacent to one ramp; all 8 automated payment machines are conveniently located close to the access areas, and internal signalling is used to direct people to all key destinations.
- The general lay-out of the car park has been optimized so that virtually all traffic is one-way
- Lanes are generous (5.5 m wide), while a parking space is typically 2.35 x 4.8 m (behind pillars).



REDUCED ENVIRONMENTAL IMPACT

- All technical solutions used have been carefully chosen so as to minimize the environmental impact: LPR-system, DALI lighting system (LED-based) are only a few examples.
- Real-time display of available parking spaces per each area, together with single-space sensor parking guidance technology reduce searching time and traffic → lower CO₂ emissions.
- Oil separators are installed before discharge into the public sewage network.



24/7 SUPERVISION FOR IMPROVED SAFETY

- This public car park operates 24/7 and so is our dispatch service.
- A CCTV system monitors the entire car park, including all access ramps and pedestrian staircases.
- Modern fire protection systems and fire detection central (IP-based).
- Automated CO detection controls the ventilation and alarm systems.
- Emergency lighting and signalization of all staircases.



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CONCLUSION & ARGUMENTATION



- The “Inter” car park, modernised and located in the heart of the city, is fully integrated in the surrounding area, with direct access to the National Theatre and the “Intercontinental” Hotel.
- It is an example of positive urban transformation, from an almost ignored “garage” into a modern, safe, much-needed public facility.

