

international

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10 Hubs help cities

Ways to more sustainability

16 20th EPA Congress & Exhibition

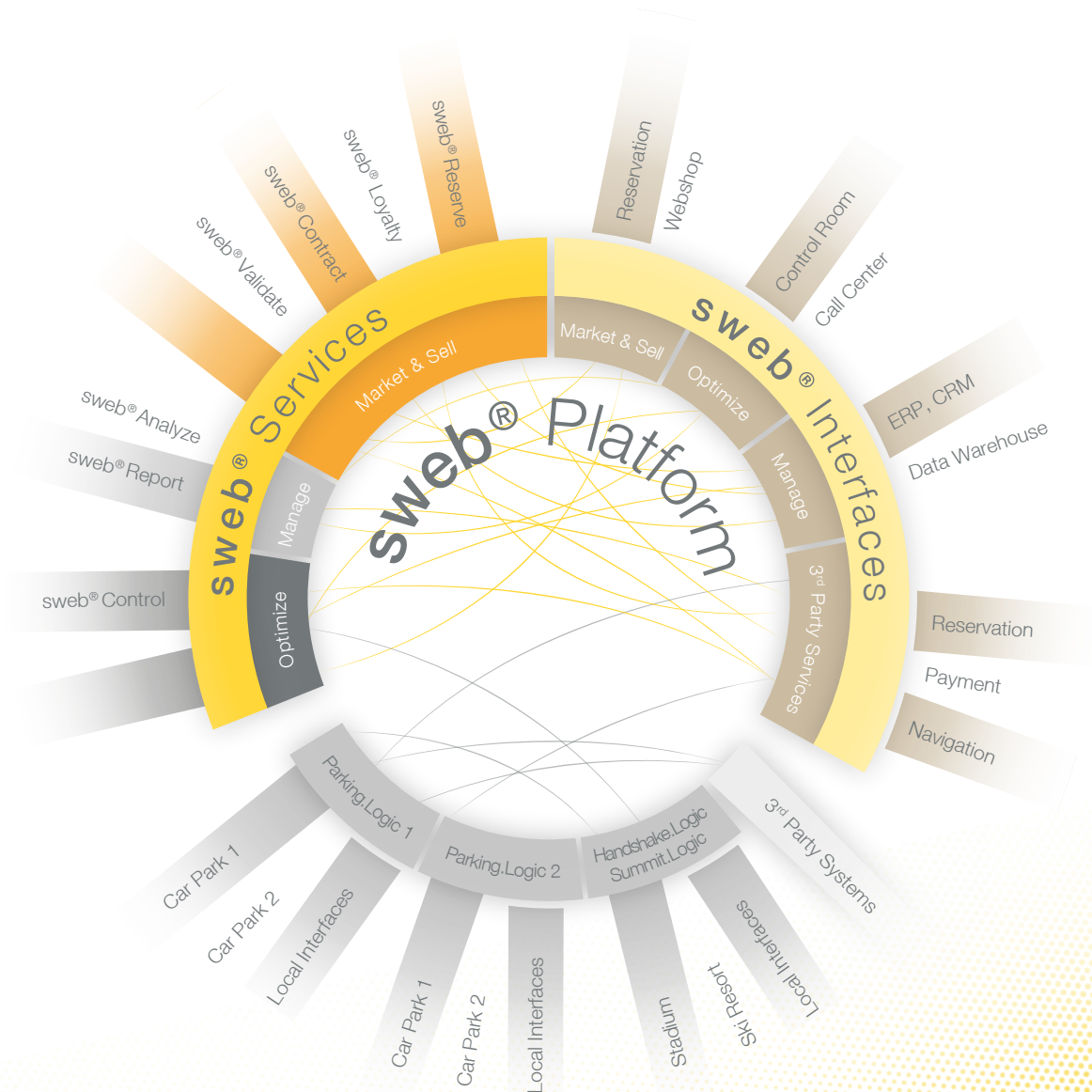
New dates confirmed for 2022

18 EPA Awards 2021/2022

The entries – part I

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Dear friends and colleagues,

on Friday, 16th April 2021 a team lead by EPA and composed of ten representatives from EPA, the Alliance for Parking Data Standards (APDS) and the DATEX II community made an hour long web presentation with representatives from the European Commission's Directorate-General for mobility and transport (DG MOVE). The purpose of the meeting was to give the DG Move representatives an overview of the scale, scope, technical sophistication, digital maturity, and strategic importance of the parking sector. The EPA led team also provided some background on the parking market and the economic and strategic policy value from the perspective of both public and private operators and illustrated that EPA's members have accumulated an integrated operational experience in vehicle parking that goes back several decades. In this period, time and again, the parking sector has transformed visions and strategies into workable solutions.

Eleven members of DG Move attended the meeting with representatives from the following units: B4 'Sustainable and intelligent transport', C1 'Road Transport' and D1 'Waterborne Transport and Logistics'. The presentation was followed by discussion session after which members of DG Move thanked EPA for a "well spent Friday afternoon" and an enlightening exchange. One DG Move member commented that they had not previously understood that parking had such "a sophisticated ecosystem".

I would like to express a special thank you to Nigel Williams (EPA/APDS), Bard de Vries (DATEX II), Jon Harrod Booth (APDS/DATEX II), Anna Cruelis Xicoy (BSM), João Caetano Dias (Empark), Stefan Sadleder (APCOA), Morten Hother Sorenson (EasyPark) and Theo Thuis (Q-Park) for their excellent presentation.

This opportunity of interacting with DG Move resulted from a previous meeting this year with a smaller group of DG Move representatives aiming to achieve an EU wide alignment of data standards relating to parking. As agreed, EPA and DATEX II, presented a draft Road Map to achieve alignment last month and the first milestone being the presentation to DG Move highlighting the strategic importance of our parking sector.

The second milestone is the formation and activity of a strategic high-level working group to provide recommendations to



Laurence Bannerman

the EC (and CEN) on technical standards and regulations related to parking data. This activity aims at achieving alignment between the communities and the emerging technical standards for kerbside management, EV charging, last mile logistics, micro mobility, public transport services, connected and automated vehicles, mapping and data publishing. The intention is to support EC policy objectives in a way that optimises compatibility with the operational data and needs of all the relevant stakeholders.

We have come a long way since APDS was first launched in April 2018. We are nearly there in making both APDS into an ISO standard and integrating it into the DATEX II, consolidating the global standard for parking data. A result made possible thanks to the unwavering support of many and the generous financial contributions from our Champion Sponsor Interparking, and Advocate Sponsors APCOA, Q-Park and Scheidt & Bachmann together with that of our North American sponsors and EPA, BPA and IPMI.

Lastly, I am well aware that standards are not an end in themselves. The real question is: "How will the APDS/ISO/CEN parking data standards make our work easier and improve the service that we give to our customers?" In the next issue of PTI we will be highlighting the benefits that adopting APDS standards will bring.

My very best regards,

Laurence Bannerman
President – European Parking Association

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Autopay equips several parking garages in Helsinki with ANPR

Autopay sees itself as a driver of change in parking management – and is pleased to register that ANPR is becoming commonplace in a growing number of markets. In Finland, according to Autopay, there has

been an increasing number of new ANPR installations for some time, but recent trends show accelerated growth. Barrier locations are increasingly replacing cameras. The days of barriers, queues and tickets are

over, says the company. Autopay, together with its partner EuroPark Finland, opened and will open several new locations in the coming months, consolidating the trend toward barrier-free parking in downtown Helsinki.

Autopay offers a user-friendly solution for end users and rental companies, which Autopay says is key to growth and adoption: end users can choose between several payment options, one of the easiest being with a registered Autopay profile and automatic payment. Receipts can be accessed online. Also online, users can manage all aspects of their Autopay profile.

Landlords manage everything through a comprehensive, user-approved online interface. Real-time analytics help landlords understand customer behaviour and track business performance. In addition, the system can optimise turnover with a demand-based pricing module. ■



Photo: Popova Valeriya / Shutterstock.com

Barrierless parking with ANPR: EuroPark's P-Eliel is one of the garages in Helsinki downtown which are offering Autopay services.



Quercus ANPR Parking System at the Lisbon Cruise Ship Terminal

Quercus Technologies LPR cameras monitor the entry and exit of vehicles at the Lisbon cruise ship terminal's private parking facility.

It is becoming more important to expedite parking access control, especially at facilities where time is of the essence for users, says

Quercus. By identifying vehicle license plates, operators can link data on rates, stay times, owners, trips and other valuable information on the vehicles that enter or leave the parking area. This information is then available for analysis by parking facility operators. It empowers them to apply dynamic rates, for example. Parking facility users also benefit from license plate readers, as oftentimes it means no longer having to worry about tickets. The license plate number of every vehicle is associated with a stay, and consequently, a price.

Quercus Technologies' LPR Cameras All-in-One are designed to be a key element in intelligent, non-intrusive, effective and frictionless access control. These smart cameras are all-in-one units. In other words, they include all the technology necessary to read license numbers in the unit itself. ■



Photo: Luis Overlander / Shutterstock.com

Lisbon Cruise Ship Terminal

Swiss Car-sharing goes electric

By 2030 at the latest, the Swiss car-sharing company Mobility wants to convert its fleet of nearly 3,000 cars to emission-free electric drive. At the same time, the e-charging infrastructure is to be expanded rapidly. In a first step, at least 300 e-charging stations are to be put into operation at Mobility locations throughout Switzerland within the next three years.

Mobility is working with Juice Technology to implement this ambitious plan. The charging station manufacturer has already equipped the first parking spaces for Mobility with charging infrastructure in Zurich and Aarau at the end of 2020 in a cooperation with SBB, Mobility's largest and most important location partner.

"We are proud to be able to support Mobility on its way to emission-free car-sharing and the electrification of its vehicle

fleet. Our joint launch at SBB car parks has shown that innovative charging technology and quality clearly prove their worth. We look forward to continuing our partnership beyond locations near railway stations," says Christoph Erni, CEO of Juice Technology AG. Juice Technology supplies the JUICE CHARGER 2 AC charging stations for the electrification of the Mobility sites.

"The biggest hurdle in the electrification of our fleet is the development of an e-charging network. That is why we have brought experienced partners like Juice on board to be able to implement this project and push ahead with the expansion as quickly as possible," says Roland Lötscher, Managing Director at Mobility. "The future belongs to e-mobility and we want to lead the way."



Photo: Mobility

Mobility and Juice Technology want to develop e-mobility in Switzerland.

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Q-Park Arsenaal is the missing link to local retailers in Venlo

In May 2021, the new Q-Park Arsenaal parking garage in Venlo-Oost will be opened. The four-level car park means that 260 parking spaces have become available, including disabled spaces at the entrances and charging points for electric cars.

“This parking garage is very important for Venlo’s economy,” says Erik Manders, chairman of entrepreneurs collective Venlostad.com. “Especially for Venlo residents who wanted to shop at local retailers, it was the missing link in recent years. But also as ‘overflow’ on the busy ‘German’ days and for residents, the garage is very welcome.”

Q-Park Arsenaal replaces the former Arsenal parking facility. The publicly accessible car park is an interim solution for at least the next eight years, on the way to a permanent solution for parking supply for visitors and residents in the city centre’s eastern section. Despite the temporary nature of the parking facility, it is a high-quality parking garage that fits perfectly into the streetscape. The car park is also built to be recyclable, which means that it can be fully disassembled and is suitable for reuse at another location in the long term.

“The new car park fits in perfectly with the cooperation we have with the municipality to keep the centre of Venlo easily accessible and welcoming,” says Fred Wilkes, Director Business Development

of Q-Park Netherlands. “With this new location added, we offer seven locations in Venlo and can even better fulfil our role as the city’s mobility partner.” ■



Photo: Q-Park

Arsenaal parking garage in Venlo-Oost is built to be recyclable.



ParkVia wins Dortmund Airport business in 4-way Tender

Airport parking aggregator ParkVia has won a tender for Dortmund Airport 21, offering the airport’s parking products through ParkVia’s global network. The initial agreement will allow ParkVia’s customer base to book both car parks and off-street

parking at the growing airport. The agreement also sees the parking spaces displayed on partner websites, including Eastern European giant Wizz Air - allowing the airport to secure parking bookings at the same time as flights are booked.

Speaking about the collaboration, Jörg Adolphs, Head of Non-Aviation at Dortmund Airport 21, said: “This new digital path to purchase further enhances our passengers’ experience by allowing them to book on the platform of their choice at a time that is convenient. The ability to integrate with airlines increases booking lead times and allows us to better monetise our parking service.”

Ilaria Vacca, Head of Strategic Accounts at ParkVia, said about the deal: “Dortmund Airport 21 is an important part of North Rhine-Westphalia’s infrastructure and we are delighted to have won this tender. We hope that this new collaboration will further enhance the airport’s already excellent offering by allowing passengers to better pre-plan their journey.”

The parking spaces at Dortmund Airport 21 will be included in the ParkVia network from April 2021. ■



Photo: Dortmund Airport / Frank Peterschroder

Dortmund Airport: View of the terminal building and the approach road from the tower.

evopark and EasyPark expand cooperation in Europe

The EasyPark Group and evopark are expanding their partnership. The mobility CONNECT service is now also available in Germany, having already been launched in Finland and the Netherlands last year. EasyPark users will be able to park their cars in 89 parking garages in 36 cities – for example, in Cologne, Düsseldorf, Munich, Berlin, Stuttgart, and Hanover – ticketless, cashless and contactless. Drivers have two options: Either they identify themselves at the entrance with the EasyCard via the RFID chip integrated in it or via their license plate number.

The EasyCard is automatically recognized in the vehicle and the barrier opens. As soon as the car leaves the parking garage again, the parking time stops and the outstanding amount is billed via the EasyPark app. Users can check details about parking transactions in the app at any time. Some parking garages already have automatic license plate recognition via camera - product name "CameraPark". Here, too, the parking time is automatically recorded and billed via the EasyPark app.



Photo: EasyPark

Following Finland and the Netherlands, parking garages in Germany have also joined the mobility CONNECT service.

"We are excited to expand our partnership with evopark/Scheidt & Bachmann. In Germany, digital parking solutions are in demand like never before. This is where we now need to set trends together," says Nico Schlegel, Managing Director of EasyPark GmbH. "With the connection to mobility CONNECT, we can offer our customers many new parking options."

Henk de Bruin, Managing Director of evopark / Scheidt & Bachmann, also comments the cooperation: "We are pooling our expertise and can thus decisively advance the digital offering nationwide. Especially in the otherwise highly fragmented parking market, this is an enormous advantage, both for mobility CONNECT's partners and for users." ■



Regulation of vehicle access in Antwerp's city centre

The Belgian city of Antwerp has opted to equip its city with a modernized city access solution. This solution, which limits traffic flows, was chosen in order to keep its city centre safe and liveable for both residents and visitors. Nedap's MOOV City Access platform and vehicle identification solutions will be implemented into the FAAC vehicle regulation solution to regulate vehicle access and as well optimize the traffic flows.

Antwerp is a known major destination in Belgium and has about 529,000 inhabitants, making it the second largest and one of most visited cities in Belgium. Besides its size, the city of Antwerp is also known for her his-

torical city centre, many sights and her main shopping street De Meir. De Meir is the most important shopping areas in Belgium, with

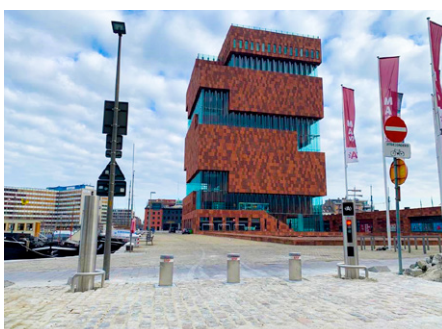


Photo: Nedap

New city access solution: FAAC bollards will be installed by Krautli in Antwerp, controlled by Nedap MOOV software.

more than 100 shops and department stores and near public transportation.

To this day, the city was equipped with automatic bollards and a system that required a lot of manual actions. To make this process more efficient and simplified for its users, the city of Antwerp decided to change and modernize its system. This decision was translated into a completely new solution created and provided by business partners FAAC and Nedap Identification Systems. The Nedap MOOV software and a total of 50 new installations with FAAC bollards will be installed by Krautli, a Belgian company known for its installations of parking access control systems. ■



Photo: ENI

Petrol stations become mobility hubs: Vision of Mobile Experience Lab (MEL) and ENI, Italy's largest petroleum company.

Ways to make urban areas more sustainable

Hubs help cities

The mobility turnaround is one of the challenges facing society. Particular problem areas are cities where there are too many cars in too little space and air pollution is omnipresent. New, intelligent traffic concepts are supposed to provide a remedy. Instead of traditional parking spaces, mobility hubs are increasingly emerging as all-in-one solutions. Examples of alternative approaches to parking management from various European cities.

Indigo

One way to make cities more sustainable is through last-mile delivery. Indigo has developed different ways to do this. A good example is the Nervion Plaza shopping mall in Sevilla, Spain. There is a Click & Collect zone in the car park of the shopping center. Customers can pick up their online orders there. In Paris, Indigo runs a cargo bike delivery of vegetables for people who live in

the city center. One of the company's goals is to reduce the number of trips to buy and deliver electrical goods. To make this possible, Indigo is working with Rexel, an international electrical wholesaler. The first pickup point was opened in the Victor Hugo car park in Paris, and the two companies plan to set up eight more of these points by the end of June 2021. Another big thing to make cities more liveable and get healthier air is the

redesign of public space: how it is divided between pedestrians, drivers and soft mobility users. Soft mobility is basically active mobility, like cycling, with sustainable vehicles, like e-bikes or e-scooters, and is often used in inner cities. To support soft mobility, Indigo installed e-charging stations in its car parks.

To redesign public space, Indigo also focused on underground car parks. In Paris-



Photo: Shutterstock.com

Changing target groups for parking management: Electric scooters for rent and electric cars for charging and parking in the city.

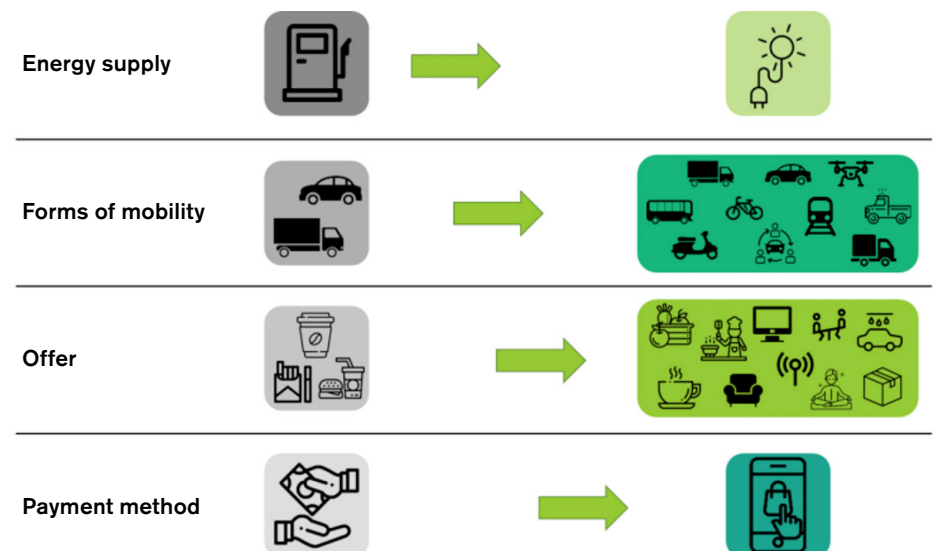
Neuilly-sur-Seine, an underground car park with 450 parking spaces is being built with the ulterior motive of creating space above it for soft mobility. In Meaux, in the north-east of the French capital, all above-ground parking spaces will be removed and also replaced by an underground car park. With this step, Indigo wants to free up street space and improve living conditions for the residents.

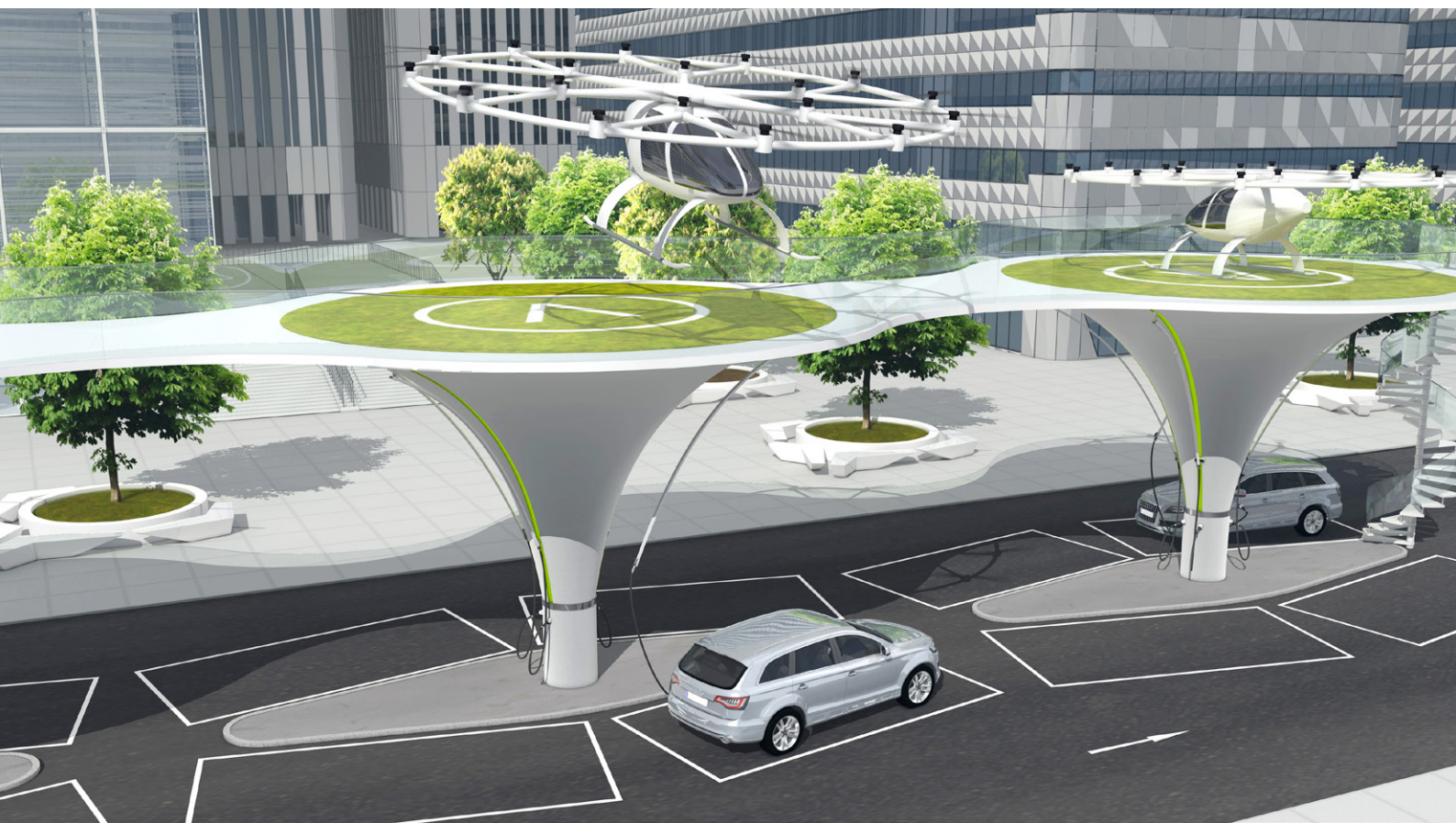
When it comes to sustainability, plants and trees play a major role. And the trend towards green roofs on multi-storey car parks is definitely there, for example in Bordeaux. A car park in the south-western French city has over 1,200 plants on its roof. It can also collect rainwater and even has a vegetable garden.

A big issue for Indigo is bicycles. With the growing demand from city dwellers, they are developing bike stations for safe parking and

other services. In Paris-Montparnasse there is a parking station with 395 spaces, lockers and parking for nine cargo bikes. In Antwerp

in Belgium, there is a station with 297 spaces and e-bike charging points, so in a way a copy of car parks with charging stations for e-cars. ➔





The future? In the vision of eLoaded, the “filling stations” will become mobility hubs with a high sustainability factor.

→ Netherlands

A similar concept can be observed in Amsterdam: the eMobility Hubs, or eHUBS for short. These are locations on the street that bring together different electric vehicles: e-bikes, e-cargo bikes, e-scooters and e-cars. The idea is to offer citizens different electromobility options to discourage them from owning a private car, which would lead to cleaner air and more livable cities. A positive aspect of eHUBS: their size is variable, which makes it possible to use them in parts of the city with little space, such as the city center. Larger eHUBS can be placed near important public transport hubs, such as bus or train stations. So far, five countries besides the Netherlands are participating in the project: France, Germany, Ireland, the United Kingdom and Belgium.

Denmark

A so-called “Parker project” is taking place in Denmark and focuses on vehicle-to-grid (V2G) technology. V2G is a system in which electric vehicles communicate with the

power grid to sell demand response services by returning electricity to the grid or throttling their charging rate. To a certain extent, the vehicles serve as a power source and support the electricity grid. Grid integration specialists Enel, Nuvve and Insero and car manufacturers Nissan, Mitsubishi and Stellantis (formerly PSA group) want to develop a definition for grid integration. “It is important with a common definition of what the grid-integrated vehicle is, as it ensures that cars, across contemporary brands of series produced vehicles, have the technical capabilities required to optimally support the grid,” says Peter Bach Andersen, Researcher at the Center for Electric Power and Energy, DTU Electrical Engineering and Project Manager of the Parker project.

To achieve this universal definition, the Parker project aims to define the technical capabilities that future electric vehicles will need to support in order to be part of V2G. The project is also trying to develop a certificate for grid-integrated vehicles that car manufacturers can apply to the vehicles and

label them as V2G-ready. The technology is already implemented in some of the vehicles from the three manufacturers.

The project will perform tests on seven electric vehicles and six parking stations. The project partners also hope that the V2G-technology, besides the sustainability aspects like the reduction of air pollution or climate changes, will make electric vehicles more attractive to customers.

Serbia

In April 2018, the 804-space Obilicev Venac car park in central Belgrade became the first Parksmart-certified car park in Europe. The concept of the Parksmart project includes applying energy-efficient practices, minimizing environmental impact, promoting community, encouraging sustainable transport and reducing costs through efficient management. The car park now has internal and external wayfinding, a free bike-sharing scheme and charging stations for electric vehicles. Inside the car park, highly efficient LED lighting, solar PV energy generation and





Photos (2): Parksmart

The present: Parksmart-certified Obilicev Venac car park in Belgrade with free bike-sharing scheme and low energy consumption.



Photo: iansterdam.com



Photo: Alexandros Michailidis / Shutterstock.com

Car-sharing hub with charging at Amsterdam Schiphol airport.

Dockless electric scooters "parked" in Brussels.



Photo: Indigo

Click & Collect zone in the car park of the Nervion Plaza shopping mall in Sevilla, Spain.

- lighting control through occupancy sensors ensure greater sustainability and lower energy costs. In general, the Parksmart project reduced the costs of maintenance by 33 percent, while the surface area of the garage was increased by one third.

Poland

According to the project management, it is the first mobility hub in Poland and started in 2020 in the capital Warsaw. Located in the largest business district of the country, Śłużewiec in Warsaw, the hub is a car park for shared and zero-emission e-scooters, e-bikes and e-mopeds. The project has been carried out by the MaaS-firm Voom and the real estate company Adgar Poland. "Mobility Hubs will be a revolution in the approach to city travel. First, they will give employees, customers and tenants access to efficient and convenient shared mobility. Secondly, under one contract and in one attractively arranged space, they will guarantee the availability of sharing vehicles, thus complementing traditional transport options," explains Voom. The aim of the Hub is to promote micromobility as a sustainable and safe way of getting

around, alongside the possibility for users to choose their preferred vehicle quickly and easily. Micromobility refers to the case where people use vehicles for short-term use to travel short distances.

France

Clermont-Ferrand is located south of Paris and has 146,000 inhabitants. Before the pandemic, more than 3.5 billion people passed through the city's main transport hub, the train station, in one year. To improve the station, Clermont-Ferrand adopted the urban mobility plan back in 2011. The project was completed in 2015 and the station now includes, among other things, a bike-sharing depot and a taxi rank. In addition to improving the station, the plan also included the creation of park-and-ride (P+R) car parks, the development of integrated pricing and the installation of secure bicycle parking at interchanges, as well as free parking for occasional users of public transport. In order to strengthen pedestrians and cyclists, the city reduced the speed limit around the intersection to 30 km/h. For pedestrians, the junction also includes an underground pas-

sage connecting the platforms with the surrounding streets.

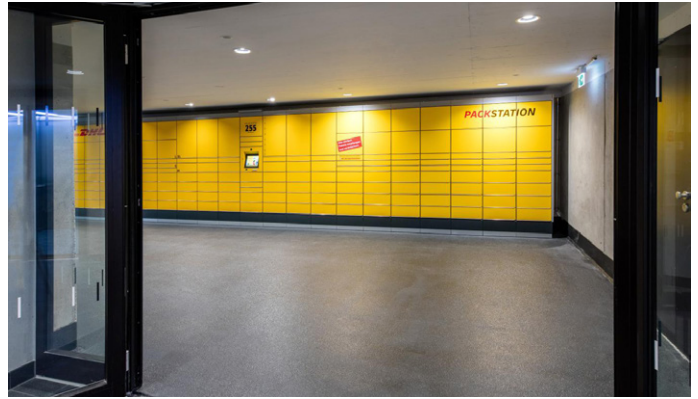
Italy

Similar to Clermont-Ferrand is the concept in Milan. In the unofficial capital of fashion, a collaboration between the Mobile Experience Lab (MEL) and ENI, Italy's largest petroleum company, has created a new transport technology. The two companies aim to transform Milan's standard petrol stations into a distributed network of urban centers that will support multimodal transport. This mobility hub becomes a point where users can switch from car to bike, bus or metro. Digital solutions have been designed to help users find the best "multimodal" transportation options. Transformation of the stations involves a redesign of the typical petrol station location: petrol stations now favor the movement of pedestrians over automobiles. This is expressed through digital kiosks that act as buffers between pedestrians and cars, and by placing the fueling station along the pavement to restore lost urban fabric and better engage pedestrians and other community members who may not be refueling their cars. ■



Photo: Marlyn Jandula / Shutterstock.com

Electrification of public transport: Ursus electric bus, operated by MZK in Zielona Góra, Poland at the newly constructed interchange hub.



Multi-purpose hub: "Hofbräuhaus" parking garage in Munich

Bavaria Parkgaragen GmbH / Scheidt & Bachmann

Parking garages become mobility hotspots

With its innovative concept, the Hofbräuhaus parking garage in Munich sets an example with regard to the current trend in the industry. Crowded city centres with parked cars, annoying searches for parking spaces, lack of charging infrastructure for e-mobility – there are a great many points of discussion when it comes to achieving a traffic turnaround. The concept of the Parkgarage Hofbräuhaus mobility hotspot impressively demonstrates that car parks could make a significant and thus decisive contribution to reaching this turnaround. Here, a car park as a centre of networked multimodality is already a reality. The operator of the parking facility, Bavaria Parkgaragen GmbH, and Scheidt & Bachmann, as the solution partner, impressively demonstrate what the next level of parking looks like.

The convenient location of the new mobility centre under the highly frequented Altstadttring offers an optimal starting point

to get to places in the city centre, such as the pedestrian zone, the Hofbräuhaus and other well-known cultural institutions, but also the Deutsches Museum in no time. In addition to the 520 parking spaces, innovative services are also provided for short-term and long-term parkers, enabling them to conveniently change to another means of transport. Parking spaces for car-sharing vehicles, lockable bicycle boxes, a rental station for e-bikes and e-scooters are available. In addition, there are 18 charging points for electric vehicles, which can be expanded easily as demand grows. The charging service is controlled via entervo.charge and billed in one transaction with the parking fee via the parking ticket. The charging costs are charged to long-term parkers in addition to their monthly fee.

Mobility provider vehicles receive contactless access using the entervo.connect interface. The directly affiliated public transport service can also be used. Residents can

park their vehicles as long-term parkers and thus contribute directly to creating a car-free inner city and thus higher quality of life. Parcel stations relieve the street space of delivery traffic from parcel services. These stations are open around the clock and access is via the parking ticket or the corresponding control medium. Residents can easily pick up their parcels after they have parked their car or on the way to collecting their car.

Claus Schnell, Managing Director of Bavaria Parkgaragen GmbH, sees enormous potential in the successful example of the "Hofbräuhaus" parking garage. "By using the car parks as mobility hotspots in the future, we can support the intermodal use of the individual transport options and we can further promote networking. Visitors and residents can thus choose their means of transport freely and contribute to more environmentally friendly mobility in the inner cities."

Photos (4): Scheidt & Bachmann Parking Solutions Germany GmbH

Welcome note to the 20th European Parking Congress and Exhibition

Dear friends and colleagues,

We are living in unprecedented times and the uncertainties linked to the global COVID-19 pandemic and the delays or differences in the vaccination advancement in our EPA countries made us question the impact and ability to conduct and ensure a well-attended safe international parking and mobility congress. In order to confirm that we will celebrate a truly memorable event the 20th EPA Congress and Exhibition, the EPA Board and the Belgian Parking Federation have decided to postpone the congress to autumn 2022.

The 2022 Congress theme is “The EU Green Deal and the Future of Parking – Integrated solutions for Dynamic Urban Management” and will be the most complete and multidisciplinary event involving operators in the parking industry, national and local public administrations, representatives of European Commissions and Projects, experts in the field of mobility, urban logistics, electrical mobility, the data world, ITS, Apps and much more. We will be examining the overall parking and urban mobility situation in Europe after the COVID-19 pandemic enabling us to address wider issues of urban



Roland F. Cracco



Laurence A. Bannerman

mobility alongside detailed parking matters. EPA with renewed intensity continues positively promoting parking solutions for sustainable mobility, contributing to the reduction of congestion, pollution and improving accessibility.

The European Parking Association today represents the national associations of 21 countries and their 41 million on- and off-street



EPA Congress website

All the latest information about the EPA Congress and Exhibition:

www.epacongress.eu

20th EPA Congress & Exhibition

New dates for 2022

New dates for the 20th EPA Congress & Exhibition are confirmed: **12-14 September 2022**. The event takes place at Square Brussels Convention Center, Belgium.

The organizing team of the 20th EPA Congress is pleased to have a new temporal target: "We are thrilled to announce the new dates." Now, the preparings for this central event of the EPA restart. All members of the parking organization can look forward to being to get together again in person and discuss the latest developments in the parking and mobility service industry.

Read the updated welcome note from the presidents of the Belgian Parking Association and EPA attached. ■



Key dates in the run up

- **December 2021** Registration opens
- **15 January 2022** Sponsors booking early bird deadline
- **25 March 2022** Registration early bird deadline

parking spaces, almost 500 thousand professional employees and an estimated annual turnover of €23 billion. This stimulating cultural, operative and economical context with its vast range of parking and mobility realities and solutions is being used to increase the awareness of the enormous potential and opportunities that parking management offers in contributing to sustainable towns and cities generating liveable, accessible and competitive centres. The EPA professionals today contribute by managing the static component of the mobility chain in the on- and off-street spaces for individual, collective and logistics vehicles, and the technological revolution that we are part of today is a stimulating challenge for the parking industry that is part of the fast moving world where the digital, technological, clean energy and behavioural developments are generating new opportunities.

Many illustrious personalities from the political, scientific, academic and industrial fields have been speakers during recent congresses and the 20th EPA Congress will continue the level of excellence. A brief mention of some of our past speakers confirming the level of prestige are: Siim Kallas, Vice President of the European Commission and Commissioner for Transport, Prof. Donald Shoup, Professor of the Department of Urban Planning – UCLA, Los Angeles, José Viegas, Secretary General of the International Transport Forum, Transport and Mobility Ministers and Mobility Councillors from many countries, leaders and experts from the automotive industry and its associations, the transport authorities and their associations, the ITS world and of course public and private experts from the parking industry and internationally renowned academics.

The EPA Congress combines a well-attended scientific conference with a trade exhibition for the parking and mobility industry. The recent events have seen an average presence of over 500 delegates, 50 top level national and international speakers and 70 exhibitors from 32 countries worldwide. The professional trade exhibition alongside the Congress offers the opportunity to the manu-

facturers, suppliers and others active in this field to promote their products and services. We ask you to consider this exceptional showcase event for gaining information, exchanging ideas and networking with the European Parking Industry.

The Congress marks the biennial presentation of the prestigious EPA Awards introduced back in 1994 and since the EPA Awards ceremony is one of the staged highlights of the EPA Congress it was decided that it too will be postponed together with the Congress to the autumn of the year 2022. The awards will be assigned in five different categories, illustrating the state of art solutions combining management, technology and environmental attention.

Today the EPA Congress is unquestionably the most important combined international parking and mobility event in Europe and the event in 2022 will reach a new level and will mark a further strategic change in EPA's development.

EPA together with BPF, the Belgian Parking Federation who will be hosting the event, is making every effort to ensure the Congress is a worthwhile, enjoyable and memorable event and we look forward to finally meeting you all again in Brussels at the 20th EPA Congress and Exhibition.

Yours sincerely,


Roland F. Cracco
 President
 Belgian Parking Federation


Laurence A. Bannerman
 President
 European Parking Association



EPA Awards 2021/2022

The entries – part I (Cat. 4 + 5 of 2021)

The European Parking Award has been established by the European Parking Association as a biannual award for excellence in parking. A prize can be awarded in five categories. The objective of the awards is to promote qualitative improvements in public car parking both on- and off-street. The contributions of the parking operation to parking policy, to sustainable urban mobility plans and to urban development are important factors. In particular the awards seek to promote improvements in services provided to the customers and effective and sustainable management of the facilities. The awards also promote the development of good working practices in on-street parking.

Initially the EPA Award was supposed to be given out in the year 2021 during the 20th EPA Congress & Exhibition which was planned to take place in October 2021 in Brussels, Belgium. Due to the Coronavirus-pandemic the event was postponed to September 12-14, 2022 and thus the EPA Award ceremony was postponed to the year 2022 as well.

Depending on the category of entry two different procedures were implemented.

For categories 1, 2 and 3 the submission deadline was extended to January 17, 2022 and new submissions will be accepted in the competition in addition to the entries which have been submitted before the initial deadline on January 18, 2021.

Category 4 and 5 subdivided into EPA Award 2021 and EPA Award 2022

For the categories 4 and 5 the deadline for the EPA Award 2021 was not extended. Instead, a separate competition for the year 2022 was opened and this means that category 4 and 5 will be subdivided into EPA Award 2021 and EPA Award 2022.

Both of the groups of finalists for each category will receive the EPA Awards during the ceremony at the 20th EPA Congress in Brussels in 2022. It was decided to open a separate competition with a deadline in January 2022, because the fields of the categories “Innovation” and “Marketing” are very dynamic.

The winner in each category will be presented in a special ceremony during the 20th EPA Congress in Brussels, on September 13, 2022

EPA Award 2022

The competition for the prestigious EPA Award 2022 is now open!

The deadline for all entries is on **January 17, 2022.**

You can find more information about the EPA Award 2021/2022 as well as all relevant documents for an application on our EPA website:

 www.europeanparking.eu/en/awards/epa-awards-20212022

Digital parking | Application by EasyPark

EasyPark launches first in-car parking app for Android Automotive OS

The Polestar 2 is the first car with EasyPark's new in-car parking app. User feedback has been overwhelmingly positive and demand for the app for other car models is growing. In the future, functions such as "Find & Park" will be added.

In March 2017, Google and Intel, together with Volvo and Audi, launched the Android Automotive OS. It is specifically tailored for vehicle manufacturers with the aim of providing a standardised operating system that not only meets the needs of new generations of connected cars, but also satisfies the growing demand for various in-car services. Because Android Automotive OS is a variation of Google's regular Android operating system for smartphones, it creates a new ecosystem for a wide range of in-car services.

The Polestar 2, the new electric vehicle from Polestar (the innovative high-performance brand of Volvo and Geely), was the first car to launch with Android Automotive in 2020. EasyPark began developing a new

Android Automotive-enabled version of the EasyPark app in 2019.

To do this, they worked closely with the various design, development and engineering teams at Polestar and Volvo, as the app runs directly on the car's on-board system. This gives the app direct access to a wide range of vehicle data. This allows EasyPark to further simplify the parking process by automating several otherwise manual steps. Functions such as "Find & Park" and electric vehicle charging are to be integrated into the app in the future.

Not published by Google

However, the reason that allowed EasyPark and Polestar to offer a parking app for Android Automotive is that the app was re-

leased as an OEM app. OEM stands for Original Equipment Manufacturer and means that the car manufacturer has to take care of all production steps such as safety tests. So the app is not published by Google, which is an advantage because Google still restricts Android Automotive to media, messaging and navigation apps, which means that a direct release for a parking app like the EasyPark app would not be possible.

Current user feedback on the app is positive. Some of the customers said that it is exactly what they have been waiting for. Otherwise, they have contacted EasyPark and asked when the app will be offered for other models and car brands. However, the company cannot give a timetable for availability in other cars.

However, since it is already known that several other global car manufacturers have announced that they will launch new generations of vehicles with Android, it could only be a matter of time before the EasyPark in-car parking service will be available in many more vehicles. ■



Photo: EasyPark

The Polestar 2 was the first car to launch with the EasyPark app.

category 4
Innovative
Scheme

Namur, Belgium | Application by Interparking

A “lung in the city” in Namur, Belgium

Interparking has equipped its Beffroi car park in Namur, Belgium, with an innovative system to reduce fine and ultra-fine particles. This cleans the air and gives it a better quality than outside. According to Interparking, the system is the first of its kind in Belgium.

In enclosed spaces, such as tunnels or car parks, there are high concentrations of particles caused by traffic emissions. In addition, the particles cannot dissolve as easily and remain suspended in the air. This is problematic because they have harmful effects on the health of people who are exposed to them. Invisible to the eye, they can be inhaled and cause respiratory and cardiovascular diseases in the short term. In the longer term, they can also increase allergies or even trigger lung diseases or cancer. However, in multi-storey car parks, but also in other enclosed spaces such as tunnels, there are sometimes exposed to high concentrations of particles due to emissions generated by traffic (exhaust gas, brake dust, tire dust).

Increase the quality of the air

To remedy this situation and “clean” the air, Interparking has inaugurated a new innovative system at the Beffroi car park in Namur that neutralises up to 70 per cent of particles, 40 per cent of fine particles and 20 per cent of ultra-fine particles. These levels vary daily depending on various internal factors (traffic and humidity) and external factors (weather, outdoor particulate concentration). The device, developed by ENS Clean Air in collaboration with Delft University of Technology in the Netherlands, uses the process of positive ionisation to capture the fine particles present in the ambient air.

In the first step, the air is sucked into the system, giving the fine particles a positive electrical charge. These then combine to form larger particles.



Photo: Interparking

The particle reduction system in Namur is the first of its kind in Belgium.

The particles are then attracted to a collector plate, which immobilises them and converts them into raw dust. Once converted into raw dust, the particles can no longer be transported into the air or inhaled. They are then collected and transported away for destruction at a specialised centre. Freed from pollutant particles, the purified air is finally expelled from the system and the air is now of much better quality.

The Goal: Establishing the system in Europe

According to Airscan.org, an air quality measurement company, the particle reduction system installed in the Beffroi allows for a lower concentration of particles to be achieved inside the car park than

outside. In other words, it is now possible to breathe better air inside the car park than outside.

A few months after the installation in Namur, the system was also installed in Parking 2 Portes in Brussels and Parking Roosevelt in Antwerp. The Group continues to install this technology in Belgium and abroad.

The installation of this particle reduction system in the Beffroi car park in Namur is part of Interparking's proactive approach to environmental responsibility. Interparking has been committed to greener mobility for many years. The Group has already installed 900 charging stations for electric or hybrid vehicles in its car parks in Europe. ■



Spain and Portugal | Application by Empark

Telpark, from parking to mobility

Empark's app Telpark has been active for more than ten years. Started to manage on-street parking, the app is now active in more than 100 cities in Spain and Portugal and has more than 2.1 million users and 3.2 transactions per month. Telpark grows in the aim of becoming the articulating axis of mobility in large urban centers, facilitating, coordinating and optimizing the use of clean, personalized and flexible alternatives.

With its main focus in customer experience, urban mobility, and sustainability, Telpark has integrated all its features in one screen improving its usability and services: On-street, off-street with prebooking and express entry, airports, and electric chargers for EVs. Quick, easy, contactless and ticketless: experiences aimed to shift customer expectations towards new mobility.

Its focus on urban mobility has helped millions of users on easy on-Street parking, paying only for the amount needed, safely, quick, easy, without going to the parking meter and contactless. And as Telpark evolves, it now allows users to know in real-time how many available parking spaces are in each parking zone. It is currently active in Palencia and Valladolid (Spain).

Telpark's growth goes hand-in-hand to improve urban mobility not only on-street but also off-street and into the parking business allowing users to access and pay for parking sessions in car parks. The "Express entry"-option allows a freeflow experience for the customer, because the barrier opens automatically after scanning the number plate. The app also calculates the

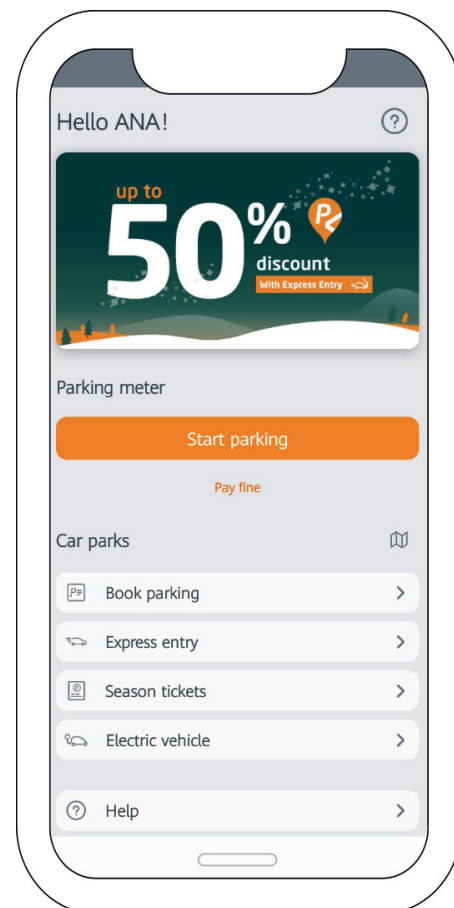
parking duration and gives customers the possibility of choosing their preferred payment method.

The app has a prebooking system, too. It includes 80 car parks and customers have the choice to reserve parking spaces from one to 31 days. Next step takes the user to date and time for the booking to commence. Upon arriving at the car park, the barrier will open automatically, making it unnecessary to use any tickets nor waiting.

More charging points needed

Empark says that it is important to rationalize and optimize travel so that the drivers do not perceive the city as a hostile place, but ultra-efficient and have the perception that their actions contribute to improve the environment and the quality of their cities. That is why Telpark trying to constant develop sustainability. So also, special offers and promotions are able to be used in on- and off-street car parks to help manage supply and demand and ease congestion.

Because the number of electric vehicle users grows every day, more cars are manufactured and, in conclusion, more charging points needed. The car parks of Empark of-



fer more than 200 charging points in Spain and Portugal which you can manage from the Telpark app.

Looking into the future, Telpark aims to connect with other mobility players to offer an integrated, mobility solution for users that go beyond parking. Partnering with other mobility solutions: through the Telpark app, the user can jump onto other mobility alternatives: bicycles, carsharing and scooter sharing. ■



Users of Telpark have specified parking spaces in the car parks.

category 4
Innovative
Scheme

Spain | Application by Asesga

Car park magic from Asesga



Screenshot: Image from the movie of Asesga

Screenshot of the mini-movie with magician Jorge Blas.

Covid-19 had a major impact on public transport and also on the role of car parks. In times of pandemic, they are strategic points in cities. To show the importance of car parks in the pandemic, Asesga made a video with Spanish magician Jorge Blas.

The current pandemic has led citizens around the world to rethink personal transport in order to avoid crowded public transport and reduce the risk of contagion. As a result, car parks are becoming strategic players in the mobility policies of many cities, and this will undoubtedly contribute to the goals set to overcome the health crisis as quickly as possible.

Essential role in traffic

Parking garages also have a new responsibility. Not only do they provide clean and safe spaces, but they also raise awareness among citizens about the safe use of private transport, creating cleaner and more sustainable communities. And they have other benefits too: Parking garages play an essential role in regulating traffic, especially in the main cores of cities. So they support mobility in cities and accordingly make the surrounding area more dynamic. And last but not

least: they save time and ensure the safety of vehicles.

Parking garages are not exempt from the current situation either, but they still offer a comprehensive service for all citizens. On many occasions, their service is less visible, but it plays a fundamental role in making our lives easier and much safer in today's world. With all this in mind, Asesga has developed a viral campaign using the main social networks as vehicles. This is the core of the whole strategy; however, the backlash of viralisation was simultaneously used to have an impact on more traditional media such as radio and print.

Magic in the car park

The title of the campaign is "Car Park Magic". The campaign consists of a short piece featuring Jorge Blas, one of the most renowned magicians at international level. The video is supported by various designs related

to the world of magic. The graphics consist of posters and stickers, among others.

According to Asesga, they transport the viewer to a magical moment in an everyday place and bring together the benefits of these spaces with the idea of magic. The video also shows how important essential things like cars and parking spaces are. At the same time, the film shows how important qualities like cohesion and gratitude are in these times.

In this way, and with the help of magician Jorge Blas and his artistry, the company has created a bond with the viewer that builds trust and avoids the rejection of a message that could be interpreted as purely commercial. This encourages sharing and thus created virality. In addition, the gift helped to revitalize social networks. ■

category 5
Marketing & Communication

Stuttgart, Germany | Application by APCOA

APCOA was official partner of the drive-in festival LiveSommer2020

Under the title "LiveSommer2020", APCOA PARKING Germany and its partners offered four weeks of drive-in live concerts at the open-air car park "P0" at Stuttgart Airport. The event was presented by Hitradio Antenne 1, APCOA was the official partner.

From 13 June to 11 July 2020, a festival atmosphere was created on 'P0', the likes of which had never been experienced before COVID-19 and may never be experienced again once the pandemic is over. 650 cars were able to attend the event and music fans enjoyed a large entertainment stage including an LED screen for those in the back rows.

Support for music industry

Hosting an event like this gives fans lots of fun, raises awareness of a company, improves its image and makes people feel good in such strange times. APCOA was not out to make money or develop a business model. They were offering an empty parking space, taking a chance, discovering new areas and learning. They charged per car and not per person, with the price varying according to the celebrity of the artist. And the result is that it usually became cheaper for each person to attend the event, not more expensive.

The idea was to support cultural events as well. So, the main goal was to relieve musicians

and the live music industry, as the sector is heavily affected by Corona. This festival aimed to give people back the joy of life and the fun of adventures that had been denied to them for a long time, APCOA said. Everyone planned to strictly adhere to Corona regulations as the recommendation was for people to stay in their cars and only bring close friends or family members from their social bubble.

The campaign and project communication took place from May to July 2020. APCOA focused on the APCOA FLOW brand and product to convey touchless, cashless and ticketless parking with the APCOA FLOW app in times of pandemic. The target groups were car drivers and music enthusiasts of all ages. For those without their own car, there was also an arrangement with taxi drivers.

The communication was set up for unpaid cross-media advertising in the region of southern Germany and the city of Stuttgart. But fans also came to the event from Austria, Switzerland and France. The festival was designed as a kind of cooperation involving artists, organisers and promoters alike.

Increased installations of the APCOA FLOW app

The project led to brand awareness for APCOA and ended in increased installations for the APCOA FLOW app. It opened up the experience to a whole new segment of people and aimed to create a positive image.

The drive-in concert experience was obviously not what people are used to, but it offered new opportunities for creativity. Judging by the visitors' reactions, "they absolutely loved it". In difficult times, APCOA PARKING gave Germany a piece of unique adventure into people's 'new normal' and an emotional experience that live events trigger. A happy crowd sitting in their cars, singing, honking and hooting, synchronised with the artists to create a communal experience. With a non-benefit orientation for APCOA, but a parking company that cares about the community. ■

category 5
Marketing & Communication



The open-air car park 'P0' was transformed into a festival site for four weeks.

Photo: APCOA

Berlin, Germany | Application by EasyPark

Mutti advertising concept by EasyPark

From October to December 2020, EasyPark launched a multi-channel city campaign in Berlin to make people aware that a smart app can save them a lot of nerves, money and time. The message: Simply save yourself the effort of using coins at a parking meter and rather do other things you like, such as visiting your mother (aka "Mutti").

A representative survey of city residents in Germany found out that three out of four respondents perceive the lack of parking spaces as the biggest stress factor in their city. In many areas, cities will have to be smart and connected in the future to organize their resources optimally. If you think the smart city vision through, it is certainly not just about parking management. But it is a quick and easy way to start using infrastructure and resources intelligently.

Multi-channel city campaign

EasyPark wants to make urban life easier with their award-winning smart parking app. Since 2001 it's helping drivers to find and pay for parking, in over 2,000 cities and 21 countries. On a larger scale EasyPark is helping businesses, parking operators and cities to manage, plan and administer all things related to parking.

From October to December 2020, EasyPark launched a multi-channel city campaign in Berlin. The local media agency Crossmedia was the partner in orchestrating the campaign. The specific challenge for EasyPark was to stand out in this rather colourful and multifaceted city environment. To achieve this, they put a lot of effort into preparing the campaign by conducting qualitative and quantitative research and elaborating a creative campaign concept together with the local creative agency Byrd by Byrd.

category 5
Marketing & Communication

The question "How do we motivate action?" was the main question for EasyPark. They found the answer in the problem rather than



Photo: EasyPark

The Mutti-concept: Showing people the advantage of a parking apps.

the solution: Most Berliners do not yet realize the sheer scale of how much old school parking via traditional parking meters and coins do impact their lives. They are not aware that a smart app can save them a lot of nerves, money and time.

EasyPark wanted to make the Berliners understand this by contrasting the wasted time and effort with some of the things they can relate to in everyday life – the "Mutti" idea was born: Simply save yourself the effort of using coins at a parking meter and rather do other things you like, such as visiting your mother (aka "Mutti"). EasyPark visualized the idea by showing a present-day "Mutti" who confidentially represents her

own style and would like to have more visits from her offspring. The captions states: Berliners visit the parking meter more often than their mum. Simply pay your parking via app.

By adapting and displaying this concept to different kind of media channels throughout the city of Berlin, EasyPark contributed to a better awareness for and understanding of digital parking services. This favours not just the development of a sustainable and smart city concept, but also reduces congestion and pollution caused by waiting and searching cars, which makes up a significant amount of the overall pollution. ■

European Standard Parking Award Off-Street Revision Project update

Sustainable urban development and mobility influences the design and use of parking facilities. Along with technological and social developments this calls for adjustment of the EPA Standard Parking Awards criteria and its evaluation process. Topics such as digital parking and payment, electrification of vehicles, the transition from on-street to off-street parking and the introduction of mobility hubs and associated services will have to become part of the ESPA evaluation process.

In the recent months, an international EPA project-team has started the revision of the European Standard Parking Award Off-Street. The group is formed by parking professionals and representatives from 8 countries and EPA members and is chaired by Peter Dingemans, board member of both EPA and the Dutch parking association VEXPAN.

The ESPA Revision project-team met virtually on the 28th of January and the 10th



Future part of the ESPA evaluation process: Electric charging point in a car park.

of March. The revision process has started along with the review of the checklist and allocation of points for new functionalities and services such as E-charging facilities, seamless access, payment and Mobility Hubs.

One of the objectives is also to create more visibility of the ESPA Award within the Parking Industry. Partly based on a pro-

posal from Peter Martens, who is also actively involved as one of the project members, constructive work has already been done to arrive at a future-oriented update of the ESPA checklist.

The project-team aims to present the revised ESPA criteria during the Annual EPA meeting, scheduled for October 8, 2021. ■

By Peter Dingemans

Data protection

New info brochure from ParkingSwiss

The Swiss Parking Association has published a fact sheet on data protection in digital parking management. The twelve-page document deals, among other things, with the automatic registration of number plates.

The automatic registration of licence plates is to be reviewed on a case-by-case basis. However, all car park operators have to draw attention to the use of video cameras by means of information signs, as processing the data can entail a high risk for the fundamental rights of the person concerned. In addition, licence plate recognition systems, such as ScanCars, are not allowed because of the administrative fine procedure. This has to do with the fact that according to the Regulatory Fines Act, the collection of regulatory fines through automatic monitoring systems is only permitted if the systems would have been approved after the adoption of the

Measurement Act of 17th June 2011.

Especially the role of solution providers, for example app providers, is not clear, writes ParkingSwiss. This is mainly due to the different roles that the providers take on: On the one hand, they are the responsible party in relation to the parkers, and on the other hand, they are processors in relation to the parking operator. This requires an individual and case-specific analysis of the individual cases.

On the other hand, the car park operators are obliged to provide information about the data they collect and process. In addition, the operator must make sure that the solution providers can guarantee the security of the data. In general, personal data



may only be processed as long as it is necessary for the purpose. Thus, municipalities and other public bodies may no longer have access to data relevant to data protection law from the provider after a parking process has been completed. Instead, the data must be destroyed or anonymised, although it is

not defined what is meant by the destruction of the data. The Data Protection Act also distinguishes between the terms “destruction” and “deletion”. The former is weighted more heavily and implies that the data is irrevocably destroyed. Common deletion commands or reformatting would thus not suffice. An alternative would be to anonymise the data. ■

EPA

Two new associate members

The European Parking Association welcome two new members: The Arvato infoscore GmbH and Genetec. The companies are the associate members 33 and 34 of the EPA.

The German company Arvato Financial Solutions provides professional financial services to renowned international brands as well as respected local businesses — allowing them to leave their credit management to a professional, so they can focus on what matters most for their business.

The services center around cash flow in all segments of the customer lifecycle: from credit risk management to payment, factoring and accounting services to debt collection.

The Arvato Financial Solutions team is made up of around 7,000 experts in 15 countries and is aligned by a common goal: to make sure client's credit management runs effortlessly and efficiently, ultimately resulting in optimized financial performance. ■

arvato
BERTELSMANN
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Genetec Inc. is an innovative technology company with a broad solutions portfolio that encompasses security, intelligence, and operations. The company's flagship product is the Security Center. It is an open-architecture platform that unifies IP-based video surveillance, access control, automatic license plate recognition (ALPR), communications and analytics. Genetec also develops cloud-based solutions and services designed to improve security, and contribute new levels of operational intelligence for governments, enterprises, transport, and the communities in which we live. Founded in 1997, and headquartered in Montréal, Canada, Genetec serves its global customers via an extensive network of resellers, integrators, certified channel partners, and consultants in over 80 countries. ■

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Parking Trend International magazine

Digital version available free of charge

The Parking Trend International magazine is available free of charge for members of the European Parking Association, or on subscription. The journal provides information independently, objectively and with professional competence on all subjects concerning parking space management, multi-storey car park operation, traffic policies, construction technology, attendance technology and customer marketing as well as current developments and innovative concepts – all from an international angle. Parking Trend is published by Maerken Kommu-

nikation in Cologne/Germany in co-operation with the European Parking Association (EPA) and thus contains all important information on the work of the EPA.

Since one year the magazine is also available as an e-paper. As soon as the printed version is shipped the animated digital version is online on the EPA website. There you also find the last issues since edition 2/2020. ■

The flip magazines of Parking Trend can be displayed free of charge with the following links (URL or QR-Code):

www.europeanparking.eu/en/magazine/



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Smart solutions for parking and refuelling

16. **Hectronic**
www.hectronic.com



17. **HUB Parking Technology**
www.hubparking.com



18. **Ingenico**
www.ingenico.com



19. **Ispark**
ispark.istanbul



20. **mycicero**
www.mycicero.eu



21. **Nagels**
www.nagels.com



22. **Nortech**
www.nortech.co.za



23. **Orbility**
www.orbility.com



24. **ParkKam**
www.parkam-ip.com



25. **ParkHelp**
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26. **ParkMobile**
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27. **ParkTrade**
www.parktrade.com



28. **PARKUNLOAD**
www.parkunload.com



29. **Planet**
www.Planetpayment.com



30. **SCANaCAR**
www.scanacar.com



31. **Scheidt&Bachmann**
www.scheidt-bachmann.de



32. **Skidata**
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CAME PARKARE REDEFINES THE CONCEPT OF SERVICE AND MANAGEMENT IN PARKING
ZERO KM SERVICE IS HERE

The new system makes it possible to reduce operating and management costs, get the best system performance and ensure full autonomy in service management.

CAME Parkare, a brand of the Treviso-based CAME Group and leader in innovative and customisable solutions for sustainable mobility systems, specially for the needs of the parking systems market, launches the new “Zero KM Service” parking concept with the objective of drastically reducing the time and cost of human intervention in the case of preventive and corrective maintenance,

getting the best system performance and ensuring full autonomy of service management thanks to intelligent devices created with new cutting-edge digital technologies.

“Zero KM Service” is based on 3 fundamental pillars. One is a complete redesign of the hardware, with devices developed in



robust modular kits, for a quick intervention by unskilled local staff. The second is a new SMART software - a component that will become increasingly important in comparison to the hardware - able to send data and notifications in real time to inform and guide staff to be self-sufficient in both preventive and corrective maintenance activities. And lastly, the application of new cutting-edge technologies to create a modular and intuitive structure, supported by fool-proof artificial intelligence algorithms. The synergy between these three elements ensures a never-before-seen business continuity, an improved customer experience and a huge impact on the EBITDA of the operators in the sector.

**Renato Berto, Vice President
CAME Parking Division /
CEO CAME Parkare, comments:**

"Our extensive experience and continuous dialog with customers have enabled us to understand what can really make the difference in our sector and increase competitiveness. The real innovation for everyone would be to be able to count on a revolutionary and self-sufficient system that can meet new needs, new rules and new technologies. Digitalisation allows a paradigm shift to take place," Berto concludes, "software is becoming increasingly more important than hardware, and the service of the future will always have a central position but will be provided in a totally different way".

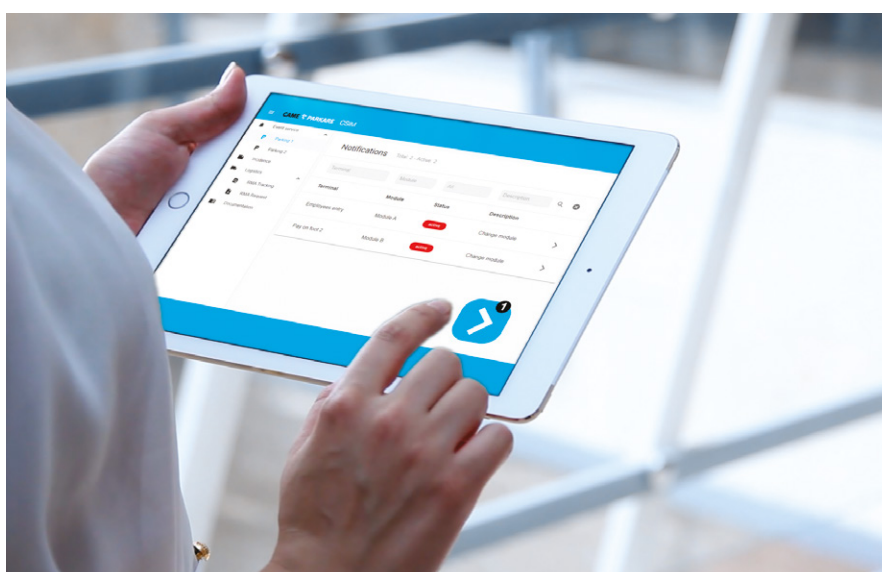
"Zero KM Service" concept is available with the new SPK parking system line. Now, when an incidence occurs, any employee of the parking operator - supported by the detailed and functional training offered by CAME Parkare staff- can bring the system back into operation, autonomously and quickly, guided by the new software which also reconfigures and restores the system automatically and in real time. It is no longer necessary to call the service provider and wait for the specialised technician to arrive. In addition, the new system manages the spare parts replenishment in real time using smart software, which also reports the components wear and tear. This is the new frontier offered by "Zero KM Service". ■

More information on:

came.com/spk

Zero KM Service video:

<https://youtu.be/wXln2G3VyRE>



Arvato Financial Solutions

Digital payment processes for the transformation of the parking industry

For many years, the Bertelsmann subsidiary Arvato Financial Solutions has been supporting customers in the digitalization of their financial processes. Its customers also include companies in the parking industry. Kay Dallmann, Senior Vice President at Arvato Financial Solutions, talks about experiences in doing so and the decision to become a member of the association.

At Arvato Financial Solutions, we have been digitizing our customers' financial processes for many years and ensure that innovative ideas and business models can also be turned into reality and monetized. The focus here is on holistic approaches in order to be able to offer the complex financial processes from a single source," says Dallmann.

Many challenges for companies

The mobility ecosystem is developing rapidly. Arvato accompany this development intensively and work for companies in different countries that are significantly driving the digitalization of the industry, electromobility or concepts such as car sharing. Innovative mobility concepts lead to great complexity on the provider side, also in the parking industry. For example, companies are faced with the challenge of coordinating the availability and utilization of spaces or even processing bookings and payments digitally while taking into account different and changing tariffs, while more and more information and mobility solutions are being integrated and connected. And all these challenges have to be mastered in such a way that users do not notice any of the complexity in the background in order to experience a simple, convenient and cost-effective parking experience.

High presence in Norway

These are exactly the requirements that APCOA in Norway asked us to meet when, four years ago, parking operators there were obliged to remove entry and exit barriers. ANPR, automated number plate recognition by camera, was introduced. Operators



Kay Dallmann, Senior Vice President at Arvato Financial Solutions

were faced with the task of sending individual invoices to users for the respective parking durations. As a long-standing financial services partner for a number of large car park operators in the country, we were able to offer APCOA the complete process chain from invoicing and the payment process to reminders and recovery of outstanding debts. Arvato developed a system for automated monthly invoices.

With this, the company were the first provider to take over the complete process from reading the number plate to matching the holder, determining the parking time via Time Stamp and billing in individual and monthly invoices. APCOA won the European Parking Award in 2019 for the roll-out of its ANPR-based parking management system in Norway. Today, arvato handles about 90 percent of private parking transactions in Norway with its ANPR solution. The insight and experience arvato gained in the industry over the years and the current cooperation with innovative providers such as Onepark, Aimo Park or GOLDBECK Parking Services were crucial for this.

"Parking providers will play a decisive role in the mobility of the future"

For GOLDBECK Parking Services (GPS), the introduction of the ANPR solution in open-air car parks in the DACH region is just the start of the cooperation with Arvato Financial Solutions. With the help of intelligent billing systems, GPS wants to develop into a provider for holistic mobility concepts in Europe. In the future, the Mobility-as-a-Service wants to serve all mobility needs of users via one interface. Among other things, the platform enables the use of charging stations for e-cars as well as car and bike sharing offers or the integration of public transport.

"While we have been able to gain international experience in the parking industry over the past few years, we are even more pleased to now also be a member of the Bundesverband Parken. The exchange in the association will help us to understand the challenges of the industry in Germany even better in order to develop innovative solutions together. With our digital billing, payment and complaint services, which also have great potential in the handling of parking violations, for example, we can significantly support the parking industry in the transformation process it is currently undergoing. We are convinced that parking providers will play a decisive role in the mobility of the future. In order for them to be able to fully concentrate on their core business, we would like to ensure as a partner in the background that innovative mobility ideas can become reality."

Projekt w / Ballast Nedam Parking UK

New Car Park for City Hospital

Projekt w and Ballast Nedam Parking UK have collaborated to open a new car park for the City Hospital in Birmingham, featuring the INTEGRA-pw car park safety barrier from projekt w. It wasn't the only project they worked together in the city.

When people arrive at a hospital, parking is often the last thing on their minds. They attend to their medical problems and in some cases respond to medical emergencies. An infrastructure that minimises risk and maximises safety is therefore essential to ensure the safest and most pleasant experience for patients and visitors, many of whom face high levels of stress.

The INTEGRA-pw provides both a safety barrier for people and protection against car

accidents, says projekt w. The benefit of the safety barrier also eliminates the need to install guardrails or similar protective devices. In the event of a crash, projekt w's system guarantees that the impact that occurs is deflected into the substructure.

The construction of the project was realised in a time frame of ten weeks. In order to meet the technical requirements, the INTEGRA-pw X-Long car park safety barrier from projekt w was used.

The same type of barrier was used at the car park of the Sandwell Hospital in Birmingham, where both companies worked together again. The project took place during the time of the realisation of the car park of the City Hospital. ■



Facts & figures

- Five split-level parking levels
- 514 parking spaces, some of which offer e-charging stations
- Steel construction with prefabricated concrete slabs as roadway
- 248 safety barrier mats with side slope adjustments for all roadway areas with a slope of more than 4 percent.
- Ten weeks construction time

Flowbird

Touchless parking solution comes to Trenton

Flowbird Group, a global leader in curb management and urban mobility solutions, together with its local distribution partner DEVO & Associates, has launched the Flowbird App in New Jersey's state capital Trenton. The smart mobile parking solution allows users to find and pay for parking spaces using their smartphone.

The Flowbird app was officially launched in Trenton at the end of February and covers around 800 parking spaces, including all on-street parking and city-owned parking. Accounts can be set up for individual drivers or for businesses to manage their fleets.

Flowbird's application has a map-based interface that integrates with Waze and other navigation systems to guide users to their preferred parking space. The GPS-enabled map also allows users to select their parking location without manually entering a zone code.

Users can be reminded when their parking time has expired. They can extend their time directly from their mobile device. The app also guides the user back to the original parking location. The city will also benefit from the back-office management suite, says Flowbird. The system integrates report-



The Flowbird app is now available in Trenton, New Jersey.

ing of all meter and mobile transactions, making it easier to manage the parking system on a minute-by-minute basis while making informed decisions for the future.

Enforcement officers have web-based access to the Flowbird SmartCenter enforcement module, which allows them to check the status of all licence plates. When a ticket needs to be issued, officers use their current

ticketing solution installed on their hand-held devices.

The City of Trenton joins several other New Jersey cities using the Flowbird app, including Dover, Linden, Loch Arbour, New Providence and Rahway. The Flowbird app is now available at more than 100 car parks across the US and generated more than 26 million transactions worldwide in 2020. ■

has-to-be gmbh

Network for more than 200,000 charging points

The charging network of the has-to-be gmbh gives e-mobility providers access to more than 90 percent of all publicly accessible charging points in Europe. In addition, the network makes it possible for customers to charge their cars nationwide as well as in foreign countries.

A study by “EuropeOn”, formerly the “European Association of Electrical Contractors”, shows that a total of 200,000 jobs could be created in the e-mobility sector in the EU by 2030, most of them in the charging infrastructure sector. A cue: as of the end of 2020, almost 225,000 charging points are publicly accessible in the EU. By 2030, every second car should be an e-car, according to the EU’s climate targets and CO2 fleet limits, and the corresponding charging infrastructure must grow with it. Currently, the European charging infrastructure is concentrated in four countries: the Netherlands, Germany, France and the UK.

“The charging infrastructure in Scandinavia, Denmark and Switzerland is on a good path. It is more difficult with regard to the Southern and Eastern European countries, where we are currently at the beginning of building the charging infrastructure. We are actively working to further develop long-distance e-mobility for the masses in these parts of Europe as well. However, we also know that it will take several more years of intensive development work before we can expand and offer our charging network across the board, especially in Eastern Europe,” says Martin Klässner, Managing Director of has-to-be gmbh.

The company shares the conviction that interoperability is essential for publicly accessible charging infrastructure. The issues of interoperability, easy charging and positive customer experiences are closely linked. E-mobility providers should be able to ensure that e-car drivers can charge conveniently in their respective foreign countries without having to sign contracts with local providers. Just like using a mobile phone abroad.

Charging card gives access

With eMSP.OPERATION, the company provides e-mobility providers with access to 90 percent of the public charging stations in Europe, currently the largest charging network with more than 200,000 charging points and rising, according to has-to-be gmbh. The customer gains access to the charging point with a special charging card.

“Enabling e-mobility in long-distance transport across borders has always been our declared goal. I am proud of the more than 200,000 charging points in our network. This puts us at 90 percent of the European charging infrastructure we can offer. I hope that we will announce the next milestone in the near future. That would be access to 100 percent of the public charging infrastructure in Europe, within our roam-

ing network,” Klässner formulates an ambitious goal for the future.

Aral invests in e-mobility

The Aral petrol station chain is further expanding its e-mobility business under the Aral pulse brand. By the end of the year, 500 charging points with up to 350 kilowatts of charging power are planned to be in operation at over 120 Aral service stations. For fleet customers, Aral is also developing holistic solutions for commercial e-mobility with the Aral Fuel & Charge card. Martin Klässner says about the new partnership with Aral: “With Aral as a new customer, we have once again been able to underline our position in the market. With be.ENERGISED, our software for the management of charging infrastructures, we were able to prevail over our competitors in an intensive tendering process. Now we are working flat out to successfully implement this project for Aral.”

More than 35,000 charging points are connected to the be.ENERGISED software. The focus of the cooperation between the two companies is on the efficient operation of Aral’s fast charging infrastructure, interoperability and advanced e-mobility solutions. The has-to-be gmbh not only provides the software for the operation and management of the charging infrastructure, but also other e-mobility services such as inbound roaming via the be.ENERGISED COMMUNITY. The goal is for the charging experience of e-car drivers at the filling station to resemble that of a fuel stop in the future: it should work just as quickly and easily. “In our eyes, has-to-be gmbh delivers the right product because it is flexible and modular. We can add more modules to it at any time. In addition, it works reliably and the team is very customer-oriented. That was the perfect mix for us,” says Alexander Junge, Aral Electrification Director Germany, about the cooperation. ■



Photo: Aral

Aral plans to operate 500 charging points with up to 350 kilowatts of charging power at over 120 service stations by the end of this year.

List Förderpreis 2022

Rewarding intelligent ideas

For the 15th time, the List Group is offering the company's own sponsorship award. The List Award is endowed with 5,000 euros. The focus is on promoting innovative work related to parking and traffic.

Info & Contact

The List Group's website and the brochure "List Förderpreis" present all the work that has been awarded so far. The brochure can be requested free of charge from the List Group (Tel. +43 1 533 32 63-0).

The conditions are available online:

www.list-group.at/foerderpreis



Photo: List Group

The award will be presented for the 15th time in 2022.

The List Förderpreis is awarded annually for project, seminar, technical, bachelor's, diploma or master's theses as well as idea concepts that make a future-oriented contribution to solving traffic and parking problems in cities. The jury consists of representatives of science and business, the Austrian Automobile, Motorcycle and

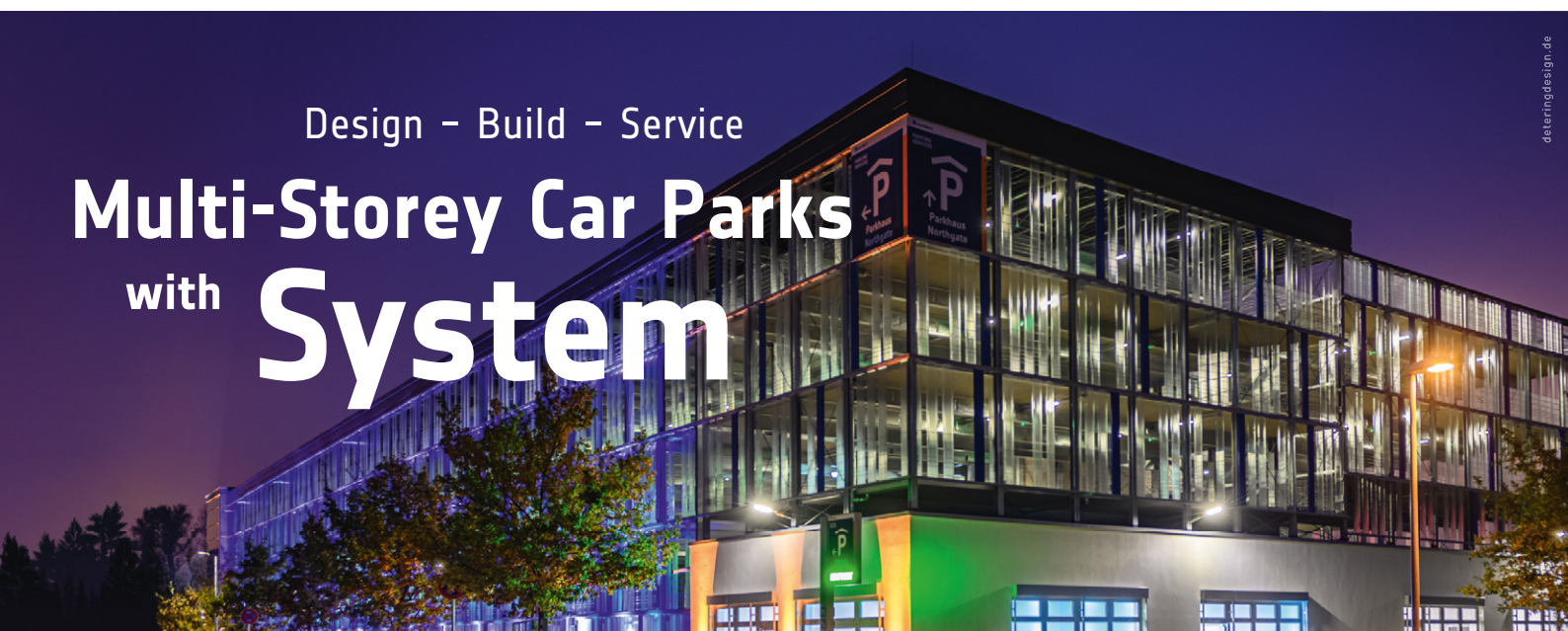
Touring Club (ÖAMTC) and the City of Vienna as well as a communications expert.

The call for entries is now open in Austrian and German universities and universities of applied sciences. The deadline for submission of works and concepts is 15 December 2021, with the award ceremony taking place in the first quarter of 2022.

Since the prize was firstly announced in 2007, in the following years, the List Group has awarded 30 young scientists, students and teams from all over Europe with the sponsorship prize, including for topics such as diesel bans, car-free city districts or digital parking guidance systems. ■

Design - Build - Service

Multi-Storey Car Parks with System



Amano / Nedap

Optimizing vehicle throughput

Together with platform partner Amano Europe, Nedap Identification Systems helps companies optimise their vehicle throughput. The integration between Nedap's ANPR Lumo camera and Amano's Parking Management System results in fast throughput. This avoids queues at the entry and exit lanes.

Recently, Amano Europe installed Xparc at the Belgian hospital Ziekenhuis Oost-Limburg (ZOL) Campus Sint-Jan in Genk and partnered with Nedap Identification Systems to optimise vehicle throughput. Belgian number plates are known for being difficult to read due to the white background with red characters. A challenge

that was completed by Nedap's ANPR Lumo camera because of its high reading accuracy.

"Nedap Identification Systems is happy to be part of the Amano ecosystem by providing LPR and identification hardware on par with the Xparc quality and performance", says Wouter Van Steenkiste, Business Development Manager at Nedap.

Amano chose the Nedap ANPR Lumo camera because it is supposed to be one of the best cameras for ANPR. Deep learning algorithms enable high accuracy in regions with common number plate formats as well as in non-standard formats. In addition, the camera's performance remains optimal even under difficult lighting conditions.

"Amano offers solutions that embrace the latest standards in parking. Ticketless systems, reservation APPs, etc., have turned the license plate into a key identifier of the car. Using an accurate ANPR camera like Nedap's Lumo is by consequence imperative", says Roger Hulsbosch, Project Manager at Amano Europe. ■



Graphic: Nedap

Amano and Nedap want to optimize vehicle throughput at Gates.

SKIDATA

New B2B webshop

Customers use apps and websites for all sorts of booking and payment services. That includes the parking business as well. With the Sweb eCom, SKIDATA created a user-friendly, customizable webshop that seamlessly plugs into the existing website or mobile app for Pay-Per-Use models, online bookings, and subscriptions.

The eCom webshop makes parking future-ready by self-service booking and payment solutions, says SKIDATA. In addition to that, the companies keep the valuable customer data. sweb eCom will be an integral part of websites or apps – and fully integrated into the parking systems.

The webshop offers different payment-models: Pre-booking, monthly contracts, a PayLater option, or flexible Pay-Per-Use. That give the customers the opportunity of

fast parking without taking a ticket or waiting in a queue for paying before leaving.

With sweb eCom B2B it is possible to transfer the administration of parking per-

missions to business customers. They plan the parking management of their fleet entirely adapted to their needs via a Do-It-Yourself platform. ■



Photo: Shutterstock



Photos (2): Messerschmitt

Messerschmitt

Cult scooter celebrates electric comeback

A new version of the 1950s cabin scooter is being produced at the Messerschmitt factories in Malaga. Unlike the original, the new version is electric.

Originally, the Messerschmitt cabin scooter was designed for people with physical disabilities. In the second half of the 1950s, it became more and more popular. At that time, people drove it at speeds of up to 125 kilometres per hour. This was made possible by a 20-horsepower

er engine with a displacement of 500 cubic centimetres. The new electric version "KR E-5000" is slower than the original. It is equipped with an electric motor that has five kilowatts of power (6.7 hp) and can accelerate the scooter up to 90 kilometres per hour.

The battery's range is said to be 80 kilometres in total, and it can be fully recharged in four to five hours. In addition, the "KR E-5000" also uses recuperation (brake power recovery). For an additional charge, a second battery set can be installed to double the range.

The scooter is available from a price of 15,400 euros in the normal "Sport" version, and from around 17,800 euros in the convertible version. However, these are pre-order prices, says the manufacturer. In regular sales, 20 percent higher amounts have to be expected.

As of this month, the scooter should already be on German roads, says the manufacturer, who is said to have already received many pre-orders. ■



Messerschmitt KR-E 5000 cabin scooter with electric motor

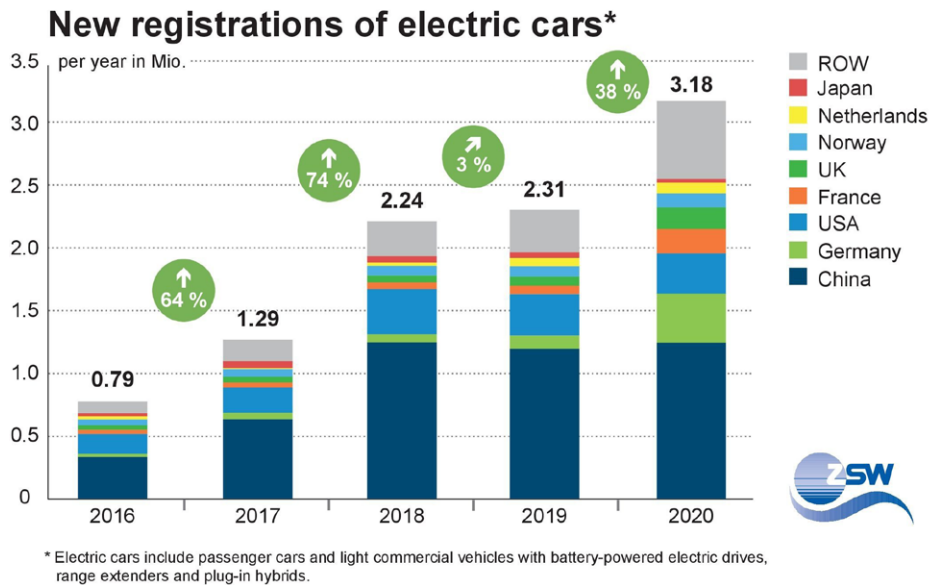
Electric cars

EU with more new registrations than China

In 2020, there were more registrations for electric cars in Germany than in America. This is according to data from the Centre for Solar Energy and Hydrogen Research Baden-Württemberg (ZSW).

A total of 395,000 electric cars were registered last year, an increase of 264 per cent over 2019, compared to 322,000 new registrations in America. France (195,000), Great Britain (175,000) and Norway (108,000) follow in fourth, fifth and sixth place. Across the EU, 1.37 million new registrations were recorded, which means that the European Union registered more e-cars than China last year. However, the People's Republic remains the front-runner in the country comparison, with 1.25 million new registrations of e-cars, the country accounted for almost a third of the 3.18 million new registrations worldwide.

For Frithjof Staiß of the ZSW, the reasons for the boom of e-cars in Germany are primarily higher subsidy rates and measures such as the lowered VAT. "The e-vehicle market is developing very promisingly in

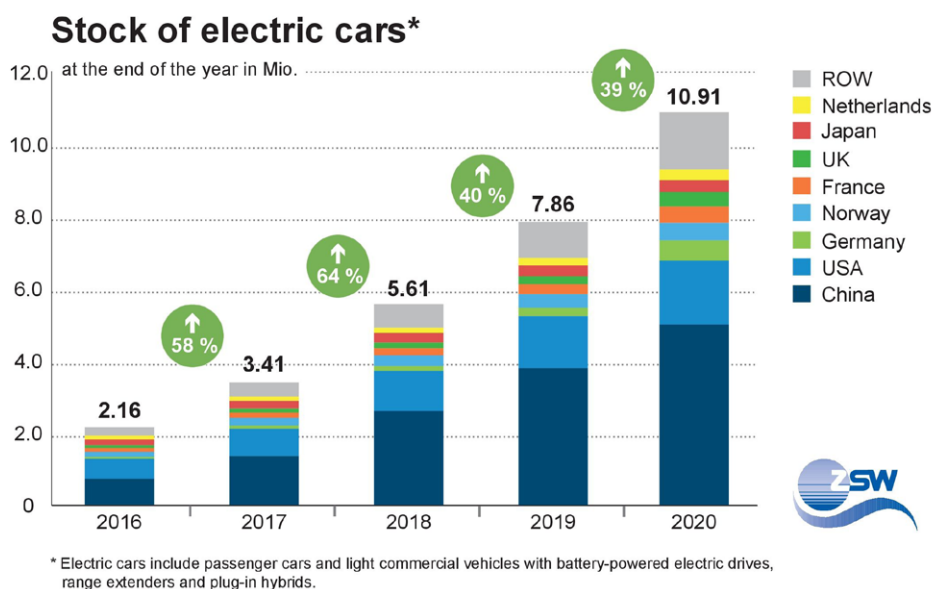


many countries, especially in the European Union," Staiß continues.

Volkswagen is catching up

German carmakers have also been able to make up ground: Although Tesla is ahead with 500,000 new registrations worldwide, the Volkswagen Group is catching up with Elon Musk's brand with 422,000 e-cars sold.

The other two major German car brands, BMW and Mercedes, were also able to maintain or improve their position. While the Ingolstadt-based company remains in fourth place with 193,000 units, the Stuttgart-based company managed to jump to sixth place with 163,000 e-cars and plug-in hybrids sold. Between the three German carmakers are the Chinese companies SAIC and BYD.



Volkswagen is closing the gap on Tesla in terms of electric mobility.

Worldwide increase: The number of e-cars is growing continuously.

Sustainable mobility

Netherlands and Germany launch cooperation

Both the Netherlands and Germany have set the course to modernise their mobility sector and make it sustainable. Both countries want to advance developments in the field of sustainable mobility in the near future.

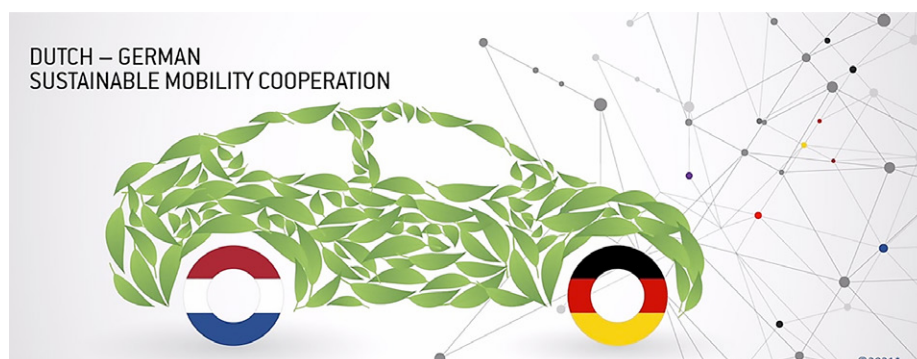
The official kick-off of the cooperation between Germany and the Netherlands took place at the end of March during a virtual launch event. In the presence of Wepke Kingma, Ambassador of the Netherlands to Germany, and Johannes Wieczorek, Head of Sub-Department G2 Climate Protection in Mobility, Environmental Protection at the BMVI, Prof. Dr. Henning Kagermann, Chairman of the NPM, and Marc Hendrikse, Chairman of the Top Sector High Tech Systems and Materials (HTSM) of the Netherlands the Dutch-German cooperation in the field of sustainable mobility officially launched.

Prof. Dr. Henning Kagermann, Chairman of the NPM said: "We need holistic solutions that take into account all modes of transport with their specific requirements and at the same time pave the way for a climate-friendly, networked, demand-oriented transport system, networked, demand-oriented and affordable transport system. The development of an intelligent charging infrastructure for e-vehicles and cross-border heavy goods are topics that are of acute concern to both the Netherlands and Germany and which we and which we can explore together in greater depth."

"Joining forces and moving forward"

Wepke Kingma, Ambassador of the Netherlands to Germany says: "Although we follow a different roadmap in implementing zero-emission mobility, our goals are the same: a green, smart and affordable mobility shift towards more sustainability. We need to join forces and move forward!"

Marc Hendrikse, Chairman of Top Sector HTSM: "Both Germany and the Netherlands face a major task in adapting their mobility to the agreed European goals. By



combining the strengths of both countries, we can meet this challenge. Today we are expanding the cooperation between our two countries in the field of technology and innovation, which already started ten years ago and recently got a new impetus with the Dutch-German Innovation Pact."



Prof. Dr. Henning Kagermann, Chairman of the NPM

Ministries support the cooperation

The plan is for cluster organisations and associations, national and regional initiatives as well as companies and research institutions from both countries to identify relevant issues and provide joint answers. On the Dutch side, the cooperation is initiated and supported by the Ministry of Foreign Affairs, the Ministries of Economic Affairs and Climate Policy, and Infrastructure and Environment, together with clusters and companies in the Dutch mobility sector. One of these companies is RAI Automotive

Industry NL. On the German side, the Ministry for Mobility and Digital Infrastructure (BMVI) and the National Platform Future of Mobility (NPM) are flanking the event. Steffen Bilger, Parliamentary State Secretary at the German Federal Ministry of Transport and Digital Infrastructure (BMVI) says of the cooperation between the two states: "Only together can we succeed in making

"The development of an intelligent charging infrastructure for e-vehicles and cross-border heavy goods are topics that are of acute concern to both the Netherlands and Germany and which we and which we can explore together in greater depth."

mobility climate-friendly. That is why it is so important to always keep the European dimension in mind and to promote cross-border projects. We particularly welcome and support the new cooperation in the field of sustainable mobility between the Netherlands and Germany."

Around 230 representatives of German and Dutch companies and organisations followed the two keynote speeches by Nancy Kabalt-Groot, Chairwoman of the of the Formula E-Team of the Netherlands and Franz Loogen, President of e-mobil BW and Chairman of WG 1 Climate Protection in Transport of the NPM. ■

Urbanism Next Europe 2021

Shaping the future of our cities

The 2021 European Urbanism Next Conference will be held online on June 9 to 11, 2021 – live from Rotterdam, the Netherlands. Organizers and hosts are POLIS Network, the Urbanism Next Center at The University of Oregon, the New Mobility Alliance and TNO.

Inspired by the annual Urbanism Next Conference in Portland, Oregon, USA, the Urbanism Next Europe Conference will be an interdisciplinary convening of private, public and academic stakeholders who play critical roles in shaping the future of our cities. The conference will explore how technological, societal and economic trends will change the following: Land use, environment, architecture, public health, retail, equity, transport, public space, real estate, economy, urban planning, governance.

Over 650 planners, architects, landscape architects, developers, technology experts, elected officials, academics, and many others will attend the conference. Conference partners include NUMO, TNO, Polis, the City of Rotterdam, Ministerie van Infrastructuur en Waterstaat, and many others. The European Urbanism Next Conference is a partnership between several organisations, including the European Parking Association.



www.polisnetwork.eu

Non-binding calendar of events

For 2021 as well, the following still applies: Please note that the events listed here may not all necessarily take place as planned. This depends on the further course of the COVID19 pandemic and local regulations.

2021

June 15-17

Parkex

Hall 5, NEC
Birmingham, England

www.parkex.net/

Postponed:

PARKEN

New date: 28-29th June 2023

parken.mesago.com

June 27-30

IPMI Conference & Expo

Tampa
Florida, USA

hwww.parking-mobility.org

September 1-3

SVEPARK Annual Conference

„The combined travel“
Helsingborg, Sweden

svepark.se/

November 16-18

Smart City Expo World Congress

Barcelona, Spain

www.smartcityexpo.com/en/home

2022

May 23-26

P-Days

Florence, Italy

www.pdays.eu/pdays/

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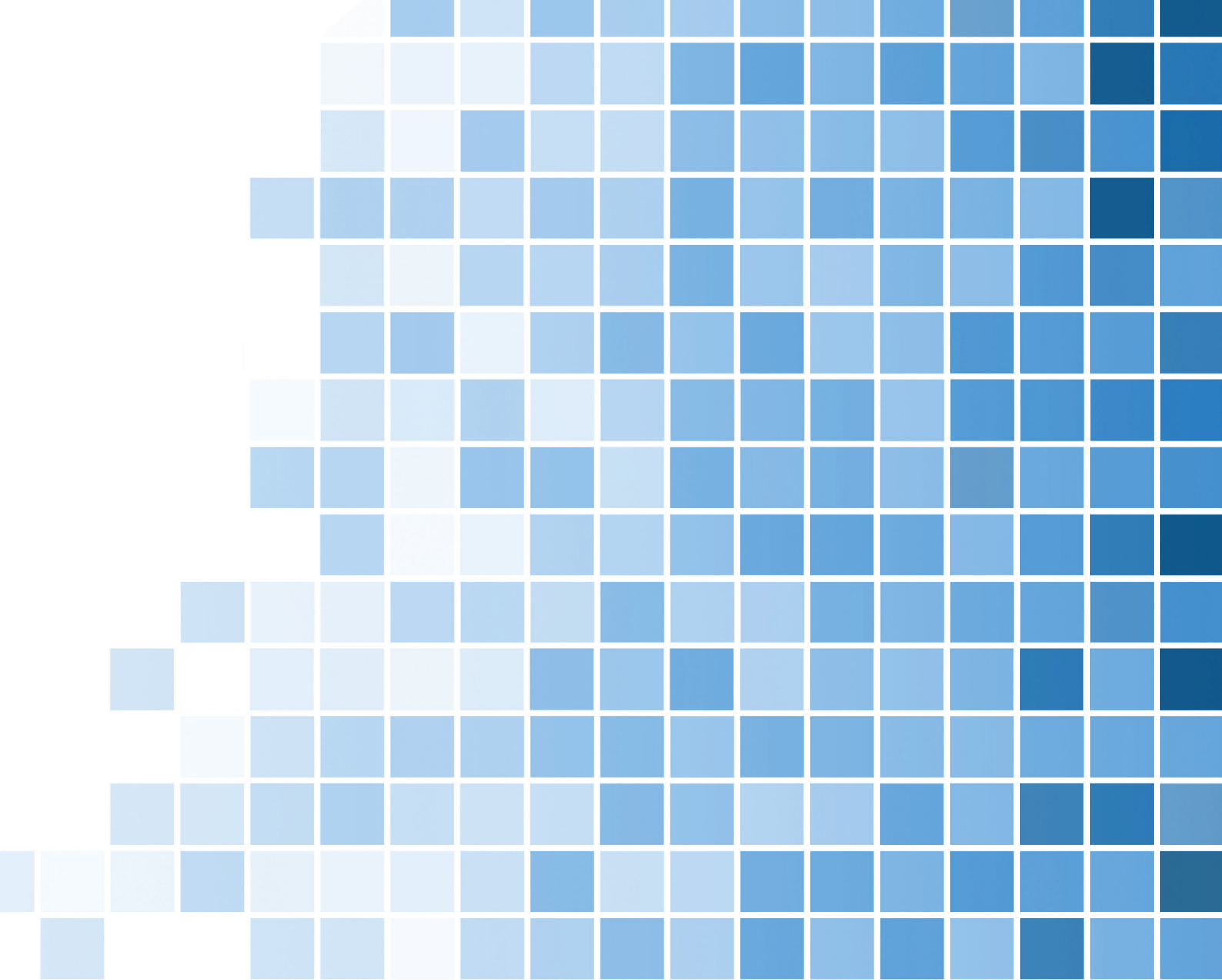
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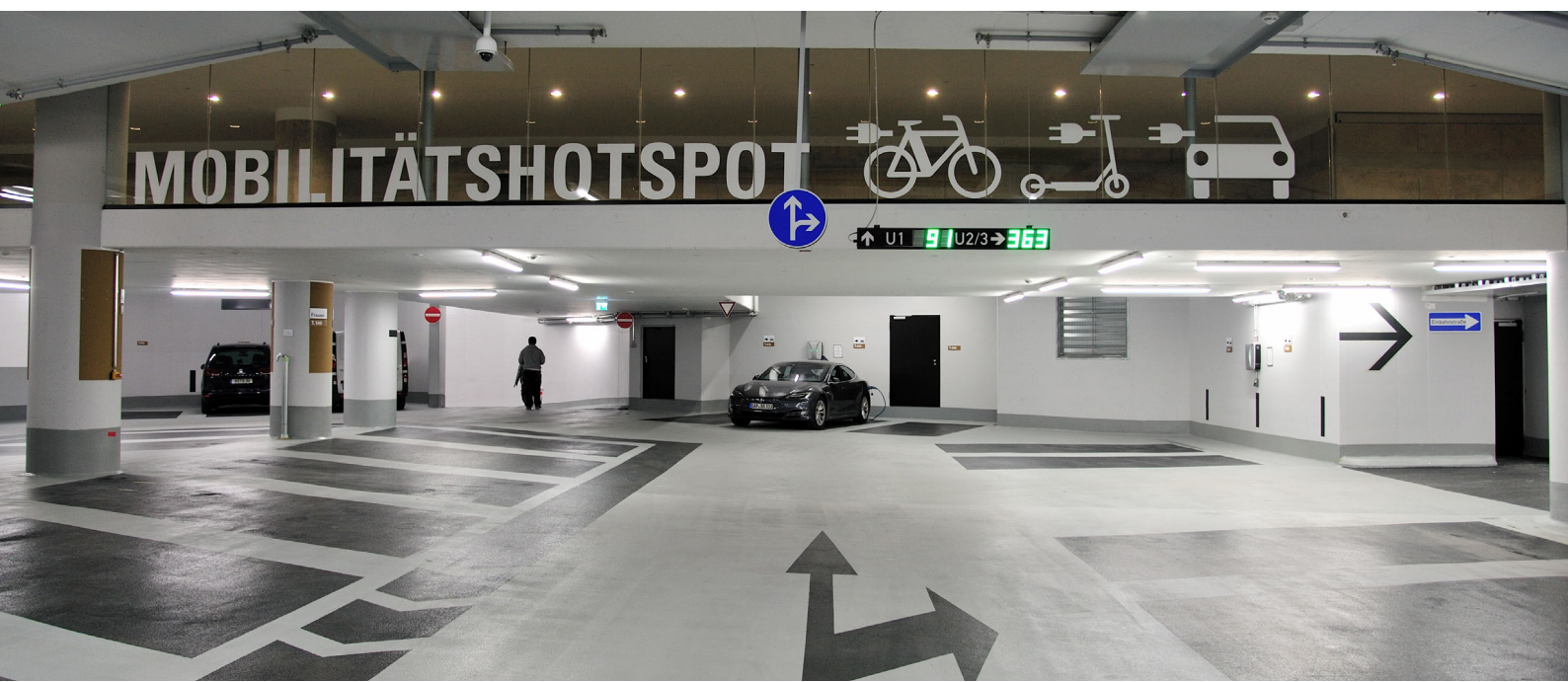
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Like most sectors, the parking industry is also influenced by industrial transformation. Digitalisation shortens the time span for innovation cycles and development. Digital thinking requires more flexibility and digital-based solutions. Digitalisation will reveal new ways for parking management systems to make parking and mobility as convenient as possible for the user and of making your business more cost-efficient. Integrate the new possibilities into your business.

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/ SMART PARKING SOLUTIONS



Car parks are fast becoming mobility hubs. As part of the mobility chain and as centres of networked multimodality, they support the use of many different transport options. With smart parking solutions, a more sympathetic impact on the environment and an increase in the quality of life in city centres will ensue.

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