

Press release

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Exploring the frontiers of parking and mobility: Parking China returns in August

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Smart parking technologies are constantly evolving to support the transformation of China's automotive industry towards intelligence and connectivity. In response to the rapid development of new energy vehicles, the parking industry has intensified its efforts to construct and enhance charging facilities. Parking China 2023 will take place at the Shanghai New International Expo Centre (SNIEC) from 29 to 31 August 2023, bringing cutting-edge products and solutions in the fields of smart parking and battery charging and swapping technologies. The fair will cover the latest industry topics and assist in addressing a wide range of parking challenges.

In recent years, China has accelerated the development and construction of its smart parking infrastructure. In April 2023, the city of Beijing implemented a set of local unified smart parking standards, promoting industry evolution and improve service levels for car park management companies in the city¹.

The country has also released guidance aimed at improving the intelligence of charging systems, encouraging innovation, and connecting electric vehicles with high-quality charging, transportation, and power networks².

Parking China 2023 will leverage the collective support of government policy, urban planning, and market demand to seamlessly integrate smart parking and battery charging and swapping technologies. This move attempts to promote product optimisation, foster further technological breakthroughs, and stimulate the new energy market as a whole.

Showcasing a wide range of parking products and solutions

To capitalise on the market's growth potential, this year's exposition will exhibit a wide array of parking-related products and solutions. This comprehensive parking ecosystem aims to assist parking companies in

¹ "Beijing will implement local unified standards for smart parking since 1 April", 31 March 2023, Beijing People's Government, https://www.beijing.gov.cn/ywdt/qzdt/202303/t20230331_2949454.html (Retrieved July 2023)

² "Guidance from the General Office of the State Council on further building a high-quality charging infrastructure system", 19 June 2023, Government of China, https://www.gov.cn/zhengce/content/202306/content_6887167.htm (Retrieved July 2023)

capturing market share. Highlights include:

- **Positioning and navigation solutions**

The Shanghai government's directive on accelerating the construction of smart car parks divides the city's public car parks into three grades based on their level of automation. Car parks are classified based on their ability to fulfill the needs of pedestrian navigation (Grade G1), car navigation (Grade G2), and autonomous driving (Grade G3), respectively.

Most parking companies have already introduced features such as walking navigation, intelligent car location systems, and parking reservations. A number of exhibitors will showcase the latest positioning and navigation technologies at the fair.

- **Smart parking and charging management system**

Recent advancements in digital technologies including the Internet of Things (IoT), big data, and cloud servers, have significantly improved the functionality of parking software in conjunction with hardware devices. Devices that stand to gain from these enhanced capabilities include handheld license plate recognition equipment, magnetic sensors, patrol cars, parking locks, camera poles, and management systems. In the case of smart management systems, automated timing and billing functionalities minimise the potential for fee disputes, improving the process of fee collection while streamlining parking and payment processes.

- **Electronic toll collection (ETC) parking technologies**

Initially, ETC systems were used primarily for highway, multi-lane, and car park toll collection. However, with the advancement of smart technologies, the applications of ETC have expanded to include unattended monitoring, intelligent refueling, intelligent car washes and more. Implementing an unattended monitoring solution allows for the autonomous management of car park operations, facilitating transparent pricing, reducing congestion, and improving overall user experience.

- **New energy battery charging and swapping technologies**

In response to the national goal of carbon peaking and carbon neutrality, the new energy vehicle market is experiencing rapid growth, accompanied by the continuous advancement of charging and swapping technologies. It is estimated that the number of charging facilities in China will reach nearly 17.7 million units in 2026, and the market size will exceed RMB 200 billion³. This year's fair will bring together many new products, technologies, and solutions related to charging infrastructure.

- **Vehicle connectivity**

Parking China
Shanghai, China
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³ "New opportunities for the development of battery charging and swapping industry", 19 June 2023, People.cn, http://paper.people.com.cn/zgnyb/html/2023-06/19/content_26000751.htm (Retrieved July 2023)

The automotive industry in China has entered a golden age of intelligence and connectivity, providing a robust foundation for the development of autonomous driving technology. Notably, L2+ autonomous driving is steadily gaining traction, and there is a concerted effort to introduce unmanned delivery, street cleaning, and taxi services.

Fostering business opportunities: leading brands on display

The fair will host a range of prominent companies in the parking industry, including ABB, Aijia, Aipulnion, Ampal, Beijing Yunxingyu, Blovedream, Blueiot, Boxun, CTP, Dabo, Deya, E-biu, Etong Tech, Heta Tech, Huasai, Innotek, Jiangsu Ruolin, Jiangxi Shanshui, JustTrust, Pay & Go, Radar Eye, Ruanjie, Seeklane, Shandong Expressway, Simboss, Ting Yitong, Wuzhou Yuxin, Yizhiting, ZhaoWei, Zhebo, Safei, and Zhumengyuan.

For information about booth reservation, please visit <https://parking-china.hk.messefrankfurt.com/shanghai/en/planning-preparation/exhibitors.html>

For visitor reservation, please visit <https://parking-china.hk.messefrankfurt.com/shanghai/zh-cn/planning-preparation/visitors.html>

For the latest updates about the fair, please visit www.smartparkingchina.com, follow us on WeChat at 'ParkingChina_MF' or send an email to parking@china.messefrankfurt.com.

To find out more about Shanghai Intelligent Building Technology, Shanghai Smart Home Technology and the Shanghai Smart Office Technology zone, please visit www.building.messefrankfurt.com.cn.

The events are also part of Messe Frankfurt's Building Technologies fair portfolio. For more information on Building Technologies worldwide, please visit <https://building-technologies.messefrankfurt.com>.

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Background information on Messe Frankfurt

The Messe Frankfurt Group is one of the world's leading trade fair, congress and event organisers with their own exhibition grounds. With a workforce of some 2,160 people at its headquarters in Frankfurt am Main and in 28 subsidiaries, it organises events around the world. Group sales in financial year 2022 were around €454 million. We serve our customers' business interests efficiently within the framework of our Fairs & Events, Locations and Services business fields. One of Messe Frankfurt's key strengths is its powerful and closely knit global sales network, which covers around 180 countries in all regions of the world. Our comprehensive range of services – both onsite and online – ensures that customers worldwide enjoy consistently high quality and flexibility when planning, organising and running their events. We are using our digital expertise to develop new business models. The wide range of services includes renting exhibition grounds, trade fair construction and marketing, personnel and food services. Sustainability is a central pillar of our corporate strategy. Here, we strike a healthy balance between ecological and economic interests, social responsibility and diversity.

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For more information, please visit our website at: www.messefrankfurt.com/sustainability. With its headquarters in Frankfurt am Main, the company is owned by the City of Frankfurt (60 percent) and the State of Hesse (40 percent). For more information, please visit our website at: www.messefrankfurt.com

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