



# Jupiter

The Future has Just Begun

Parking  
Technology

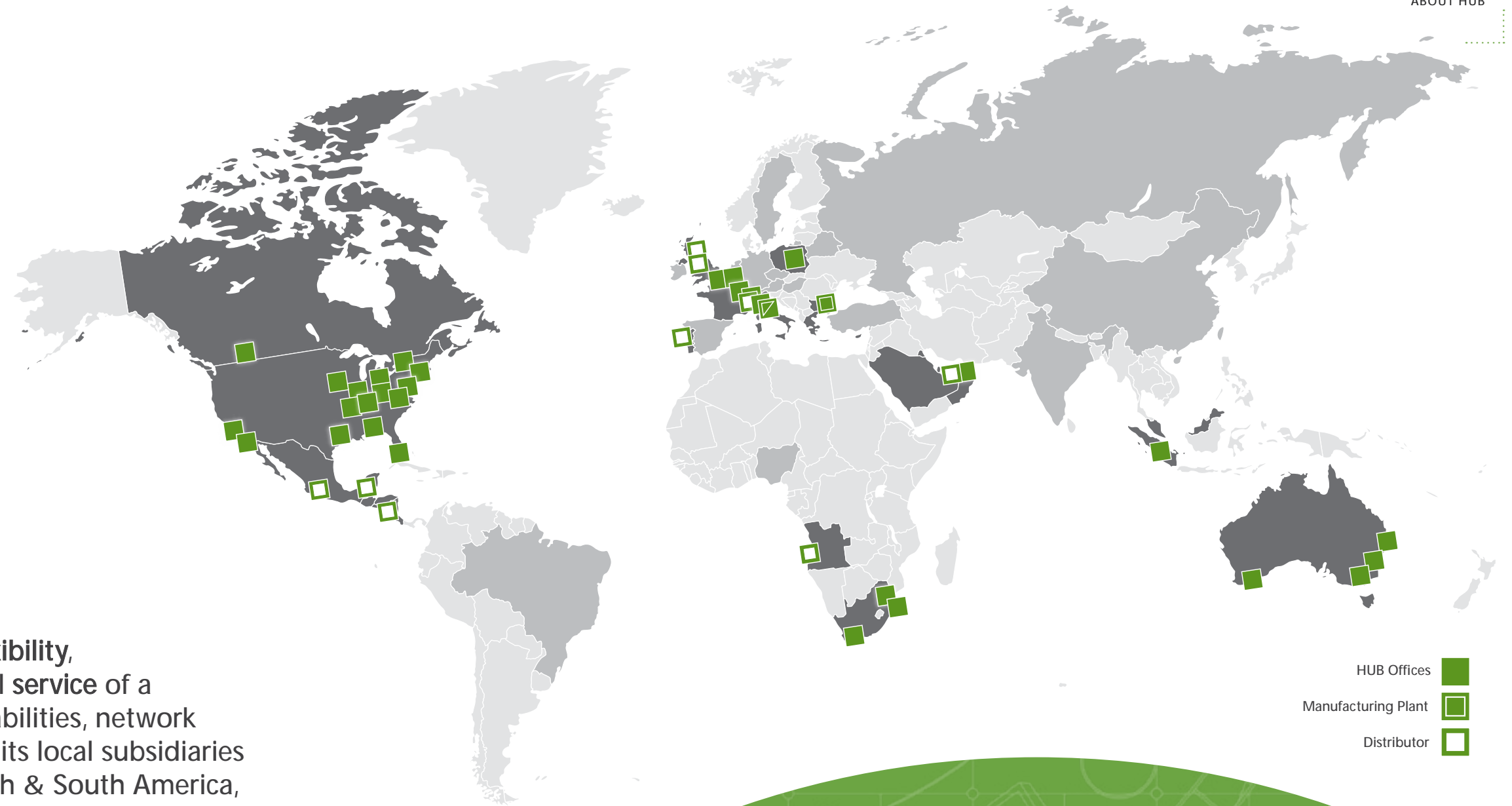
**HUB**

# About HUB

**H**UB Parking Technology is the FAAC Group Business Unit that develops smart software and mobile solutions for the Parking industry, manufactures and installs Parking Revenue Control Systems and provides pre-and after-sales services.

Keeping abreast of the future of parking in the digital era, HUB pushes boundaries to pioneer and develop smart, innovative solutions designed to put our customers and end-users at ease, save time, increase satisfaction and efficiency.

HUB Parking Technology delivers the **flexibility, professional expertise** and close personal service of a local company, together with all the capabilities, network and strength of a global player. Through its local subsidiaries and distributors, it is represented in North & South America, Europe, Africa, the Middle East, Asia and Australia.



10,000

Installations worldwide



100

Years of combined experience



500

Employees in the world



2

Factories



19

Subsidiaries

# An innovative methodology



The shape and demands of the parking industry have rapidly changed in the recent past, and will continue to **advance** over the coming years. The development of new products and services is led by a combination of customer demand and policy on a worldwide scale, demanding system to innovate with tools to generate strategies and **improved** business practices.

Delivering value and constantly interfacing with the market requires a degree of openness and flexibility that challenge the traditional **approach** to product

design. This is the reason why the design of **Jupiter product range** has been realized thanks to the cooperation and synchronization of two cutting-edge methods: Lean and Agile.

Encouraging innovation, investment, and the fair and effective use of technology will improve the delivery and management of parking services and keep the consumer at the heart of our thinking. The project of cabinets and electronic boards has been managed by the HUB HW team applying a Lean approach, while the software has been managed by the SW team with a Scrum approach.

4 The adoption of these methodologies has steered a new course for our R&D teams and across functions: **innovation never stops!**



# Figures drive the change

AN INNOVATIVE METHODOLOGY  
FIGURES DRIVE THE CHANGE

>1,000,000  
single accesses during  
the field tests

500,000  
payment transactions  
tested in heavy-duty  
installations

15,6"  
inches size of the  
graphic interface on the APS












1,500,000  
strings of code to  
fine-tune the  
management system

7  
BIM files available  
(Building Information Model)

1,200  
pieces capacity of  
each hopper

# Future at a glance: JUPITER product range

New demands mean new and more flexible features to embrace innovation. HUB Jupiter is designed to adapt to complex systems incorporating contract parking, credit card in/out parking, pre-paid parking online, license plate recognition or a combination of these. Among the main features of the range:

-  Full stainless steel cabinet construction
-  Weather-proof, working in extreme temperatures
-  Multiple combinations of Entry and Exit functions
-  Multiple ticketless access options
-  Multilingual high-contrast displays
-  Impact and scratch-resistant monitor
-  Designed for the cloud
-  Seamless integration with multiple access media types
-  Barcode and magnetic ticket technology
-  Multiple combinations of electronic payment devices
-  Lockable access doors on two sides for lane stations

# HUB

FUTURE AT A GLANCE:  
JUPITER PRODUCT RANGE



### Standard Line

The peripheral can be configured as Lane Entry, Lane Exit, Lane Section, Automated Pay Station Cashless.



### Automated Pay Station

The peripheral is able to handle electronic payments, coins and banknotes, as well as vouchers.



### Slim Line

The peripheral can be configured as Lane Entry Slim, Lane Exit Slim, Lane Section Slim.



### Automated Gate

HUB Parking PRO barrier matches perfectly the lane peripherals and the automated pay station.

# An universal product: worldwide certifications

Despite being a space-age product, Jupiter complies with directives and ergonomics of planet Earth. The entire range complies with the essential health and safety requirements set out by worldwide organizations such as CE, cULus.

Restriction on the use of certain hazardous substances in electrical and electronic equipment  
Directive 2011/65/EU - ROHS2

Electrical equipment for use within certain voltage limits  
Directive 2014/35/EU - LVD

Electromagnetic compatibility  
Directive 2014/30/EU - EMC

Listed for compliance with cULus requirements on safety



# Design for usability: rational approach

AN UNIVERSAL PRODUCT: WORLDWIDE CERTIFICATIONS  
DESIGN FOR USABILITY: RATIONAL APPROACH

The best and most innovative product design is effortlessly close to the end user. The digital transformation of our world is **reshaping** the way end users park, as they look for the latest relevant information available and a smooth and quick parking process.

HUB's focus to deliver a **seamless, compelling and secure experience** relies on the extensive

knowledge and expertise of our technical engineers along with input from our clients: parking operators, municipalities, airports, retail centers, hospitals, universities, hotels and event centers.

Jupiter comes not only with an appealing design, but also with an **intuitive set of icons**, touch points, and guidance elements that turn the human-machine interaction into a rational and flawless process.



LED's and rational (intuitive) icons guide the user along the payment process, in a straightforward sequence.

# Design for serviceability: focus on the support

A cutting-edge and reliable customer support has been the foundation of our approach since the beginning and we aim to endure it with additional service and expertise.

Through local teams, professional training, and corporate service staff, we support our customers through professional applications, first-class service and reliable local assistance. Being close to our customers in all respects is our top priority.

Our project management and service teams have extensive technical expertise and an average tenure of 9 years installing parking solutions for airports, municipalities, colleges and universities, hospitals and private business.

Among the manifold services delivered by HUB:



Project management



Customer support



Consultancy and design



Upgrades



Training



Preventative maintenance



First line maintenance

The design of HUB Jupiter range is optimized for ease of installation and serviceability, thanks to features that make it easy to service and troubleshoot, while reducing the cost of ownership for the end customer:

- Visual indicators inside and outside the cabinet
- Labels on the internal components
- Easily pluggable connectors
- Ease of software update
- Remote troubleshooting capabilities
- Full height access doors
- Easy on-field upgradeability

DESIGN FOR SERVICEABILITY:  
FOCUS ON THE SUPPORT



# Ready for the future: key factors for success

# Business segments

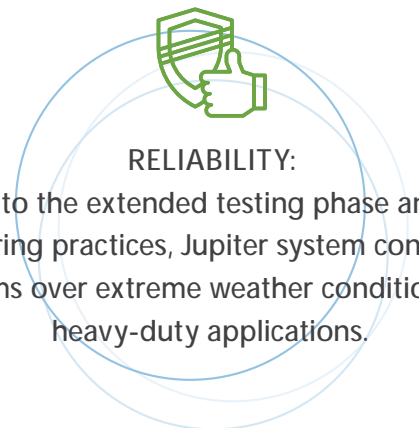
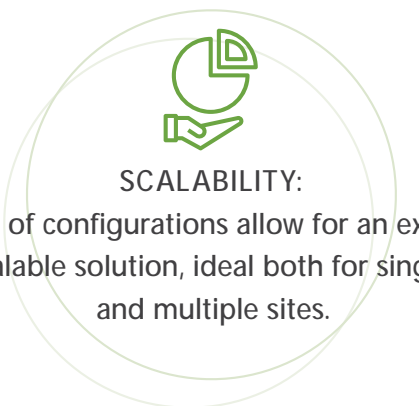
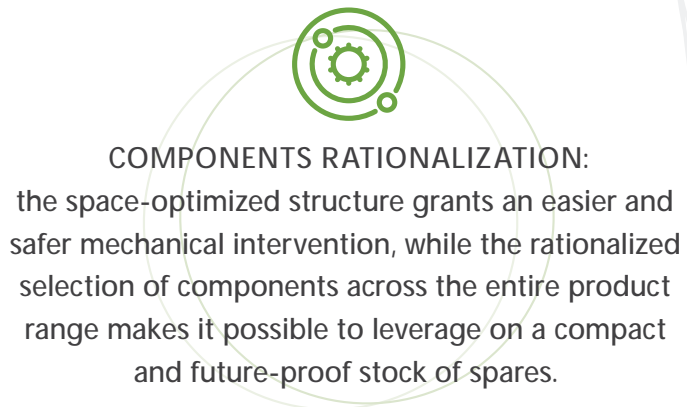
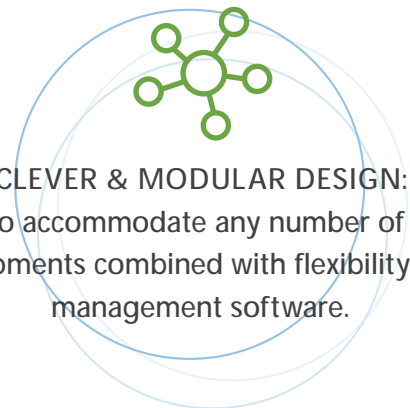
Technology and innovation have marked a shift in the way we view mobility and parking issues. With major transportation and mobility projects underway across the globe, the challenge for public and private operators in the parking sector is how to adopt smart, value-added solutions that grant a higher quality of life to drivers, as well as safe and sustainable operations to parking owners. The transformation that is reshaping cities and parking solutions poses a challenge, and also a great opportunity to keep up with technology and

innovation. HUB Parking Technology has set at the forefront of urban mobility innovation, looking ahead with Jupiter.

The system range is ideally applied in a wide spectrum of high-traffic environments, where the degree of complexity is variable, access might peak unexpectedly, and end-users expect a smooth parking experience.

Specific applications include municipalities, airports, hospitals, hotels, shopping malls, and mobility hubs.

12



13



Airports



Shopping centers



Municipalities



Hospitals



Hotels



Business centers



Colleges and Universities



Residential Areas



Stadiums and Exhibitions

# JMS: The simple and versatile HUB software solution

**J**anus Management System - JMS delivers superior technology: monitoring and access to complex reporting and analysis, improving decisions through data that is always-on, instant, and easy-to-access are now available expressly on the operators' devices, both in desktop and handheld device format.

Ensuring 24/7 connection to the business, JMS is reliable, flexible, and perfectly **adaptable**: from the smallest installation, to the most complex project with the highest traffic level, it allows operators to manage multiple parking locations and different types of HUB equipment with the same easy and extremely intuitive user interface.

JMS also serves as a powerful digital marketing device, allowing to showcase video content and ads through any screen display in the network (Pay Stations, VMS displays, dedicated videos...) turning

them into a revenue generating tool. The system can also be made available to third-parties to display advertisements, offering nearby companies an excellent opportunity to increase their business visibility and for operators, to drive more value to their business.

By connecting data collection and analysis, JMS provides insightful **business intelligence** and paves the way for data-driven decisions. Open platforms are essential, as well as modular and extensible architectures, in order to allow operators to integrate multiple technologies and providers, and easily **scale with time**.

JMS is also the proof of how HUB keeps abreast of the most advanced digital transformation, demonstrating our capability to adapt to a global mindset change and contributing to the development of smart cities.



# HUB

# Smart mobile solutions and web validations

JMS: THE SIMPLE AND VERSATILE HUB SOFTWARE SOLUTION  
SMART MOBILE SOLUTIONS AND WEB VALIDATIONS

**D**igital transformation is running at a pace that overcomes any expectation, touching upon all aspects of human life around the world. Mobile is a game changer, and it has become the main interface and enabler of services within urban areas, as long as digital technologies are constantly innovating to better integrate with daily life and improve user experience everywhere: at home, at

work, on the go. Mobility gets smarter, and so do HUB's mobile and digital solutions. In a time when parking management needs and technologies are constantly changing and demanding total system solutions, HUB has designed and developed multiple mobile solutions, which can suit the current and future needs and challenges of both parking management and parking end users:



JMS MOBILE APP



MERCHANT APP



MOBILE CASHIERING

**M**any retail stores, supermarkets, cinemas, shops, restaurants, etc. offer discounted parking to promote their businesses and increase customer loyalty. Jupiter system provides three simple and reliable solutions to allow operators to offer these discounts or validations in car parks:  
**ONLINE** - web validation of entry ticket  
**OFFLINE** - barcode discount voucher (printed/ digital)  
**OFFLINE** - validation via third party barcode

When paying for parking at a Fee Computer or automatic pay station, the voucher is presented to claim the discount. The number and value of discounts given are audited and a management report prepared to allow the car park operator to be able to charge back the discounted amount to the business issuing the deduction.





Parking  
Technology

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