microio

Solutions for you

WE DEVELOP TAILORED INTEGRATED SOFTWARE AND HARDWARE SOLUTIONS

ACCESS

PAYMENTS

ATTENDANCE

MOBILITY

INTEGRATED MANAGEMENT SYSTEMS

Involves

Assiduity control

Access   room, buildings, lockers

Micropayments   bar, canteen, vending machines

Promotes

Security

Resources efficiency

Cashless payments

Unified management of goods and consumption

STRONG R&I

2 APPROVED PATENTS

Portugal – "Sistema de Pagamento em Parques de Estacionamento com Dispositivos de Comunicação de Proximidade sem contacto", National patent - Nº 104 215.

USA – "Method and Apparatus for the Deterministic Capture of a Communication Channel Shared Among Contention-Based Technologies", PTI-US 45785/12, accepted January 2016.

CMMI - L2
International Certification
ISO 9001
Quality and Management Systems
NP ISSO/IEC 27001
Information security in the development process, operation and management of the Unicard Vending solution

38 WORKERS

10 with Bachelor degree and 16 with Master degree

SME LEADER
since 2013
SME EXCELLENCE
2014

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SOME OF OUR CLIENTS / PARTNERS

700 SCHOOLS AND ALL THE MAIN UNIVERSITIES IN PORTUGAL WITH MORE THAN 1 500 000 DAILY USERS
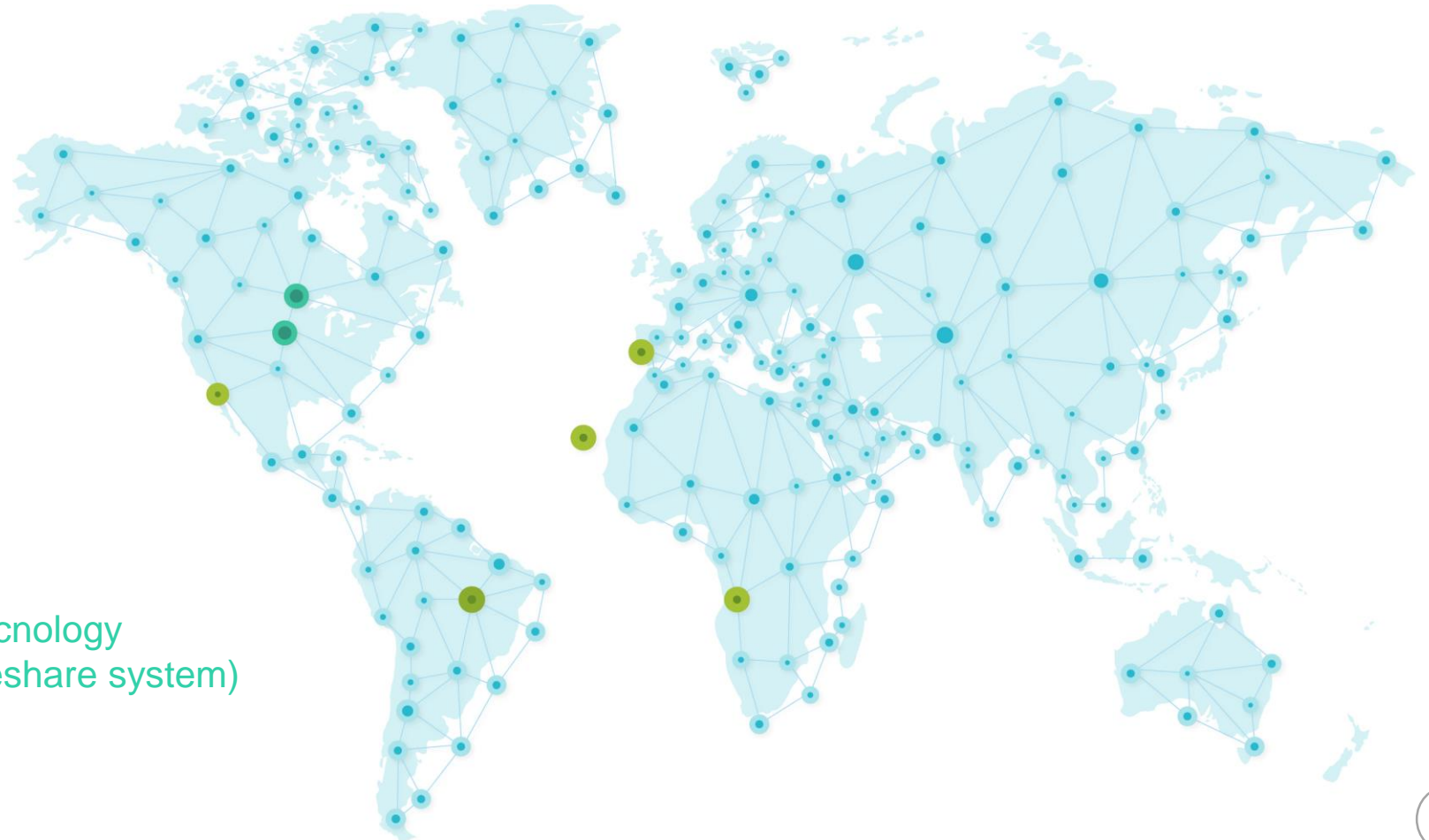
PORTUGAL

ANGOLA

MÉXICO

BRAZIL

USA

CANADÁ

GERMANY

Exporting tecnology
(electric bikeshare system)

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unicard

Microio developed **UNICARD – Integrated management system** that is complementary and integrable with diferent ERPs, focused on access control, sales and cashless payments.

The Unicard family is divided into 5 by-products adapted to the reality of the institutions for which they are intended.

unicard kids	unicard school	unicard campus	unicard business	unicard ticket
Municipalities	Public and Private schools	Universities	Enterprises	Ticket sales

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unicard
school

Integrated School Management system

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MAIN SYSTEM

ACCESS
Manage access to school campus and specific rooms, based on school schedules. Visitor registration.

SALES
Sales, top up account, orders, suppliers and inventory management.

MEALS
Schedule and cancel meals plus on-the-spot sales. Effective control of consumption.
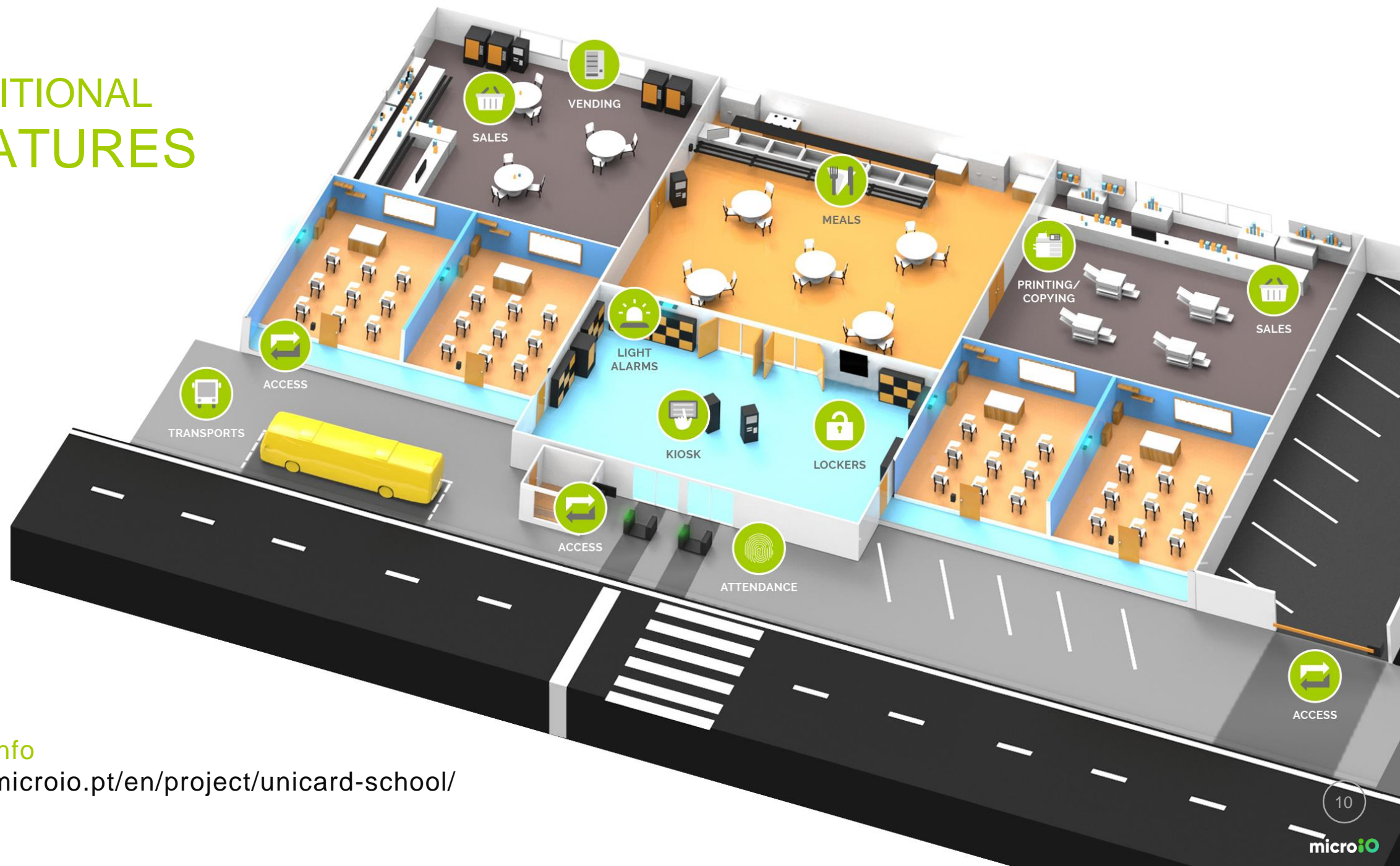
STATISTICS
Central management. Intuitive and highly informative dashboard. Easy to customize. Extract reports and SAF-T(PT) files. Alerts via SMS/Email.

WEB PORTAL AND MOBILE
Online access to account transactions and details, input and output records, canteen menu, schedules, grades and absences. Reserve meals, request documents and receive messages. With the mobile application you can check the user's information and perform operations in the system. Compatible with all operating systems (iOS, Android, …).

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ADDITIONAL
FEATURES

VENDING

SALES

MEALS

PRINTING/
COPYING

SALES

LIGHT
ALARMS

ACCESS

KIOSK

LOCKERS

TRANSPORTS

ACCESS

ATTENDANCE

ACCESS

More info
http://microio.pt/en/project/unicard-school/

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unicard
campus

Integrated management
system for Universities

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ONE CARD FOR STUDENTS,
A SOLUTION FOR YOU...

It enhances the student experience on campus and facilitates integration into the academic environment by providing a unique, usable ID card for transactions and campus-wide access.

THE INTEGRATED SOLUTION FOR A CASHLESS AND SAFER CAMPUS

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WHY UNICARD CAMPUS

- Control access to classrooms, laboratories, residences, parking, gymnasium spaces, ...

- Cashless payment of meals, books, copies and prints, educational material and other goods and services

- A single "card", increasing efficiency and reducing operating costs for the institution

ONE SINGLE CREDENCIAL

CARD, SMARTPHONE OR BIOMETRY

More info
http://microio.pt/en/project/unicard-campus/

KIOSK

ACCESS

LOCKERS

PRINTING/ COPYING

LAUNDRIES

unicard campus

MEALS

SHOWERS

SMART PARKING

TURNSTILES

VENDING

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unicard
kids

Integrated management
system for Primary schools
and Kindergartens

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SYSTEM MODULES

MANAGEMENT PORTAL

Allows you to set prices for meals and schedule extensions, access to users information, assign different levels of discounts/allowance, consult scheduled meals, access to the current user account, cancel appointments, view reports, among others.

PARENTS PORTAL

The parent can query data and movements of the current account, the menu in the canteen, mark meals and pay schedule extensions.

SUPPLIERS PORTAL

The meals provider may launch on the system, the menus, consult and list the number of scheduled meals for school and/or cafeteria for validating billing.

SCHOOL PORTAL

Each school will have access to student records, to the scheduling meals, payment of schedule extensions, among others.

MEALS

Controls meals in a simple and effective way, including unserved meals, as well as meals planned for other days. In the case of an unmarked meal, it's possible to register your consumption for subsequent debit in the current account.

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WHY UNICARD KIDS

"The implementation of Unicard Kids to manage school cafeterias in Primary school and kindergartens under the responsibility of Câmara Municipal de Almada proved to be important in the provision of a rigorous and transparent quality public service of reference in the relationship between the municipality and the educational community. "In this process, Microio stands out as an always available partner ready to collaborate in finding solutions and adapting to new needs."

Câmara Municipal de Almada
Divisão de Educação do Departamento de Educação e Juventude

More info
http://microio.pt/en/project/unicard-kids/

unicard
business

Integrated management system

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SYSTEM MODULES

ACCESS MANAGEMENT

Integrated management, access control, alarm monitoring. Uses smart identification means (biometrics, RFID, or others). Monitors and records access to private areas.

ASSIDUITY

Important tool in the event of work accidents and a motivating element for schedules compliance. Software and biometric terminal with plug-n-play installation. Increases security as identifies people, not cards. TCP/IP connection, wireless and back office remote access.

POINT OF SALES

Payment management within the institution. Prepaid balance or salary discount, using a handle to operate the payment in local sales of goods and services.
Information in real-time; reports extraction; stock control and legal requirements. Possibility of integration with existing card system and connection to the company's databases.

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MANAGEMENT ADAPTED TO YOUR BUSINESS

Micropayments within the company. Control of consumption online and in real time.

What are the consumption habits? Rhythms of work? Assiduity? It is based on a prepaid balance or discounted at maturity. It uses the identifier / card to operationalize the payment in places of sale of goods and services.

Management of the consumption of your machines.

Virtually any machine can be adapted and controlled.

Reduction of human intervention | Solution available 24/7 | Simplified service | Tailored to your needs

More info
http://microio.pt/en/project/unicard-business/

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unicard
ticket

Ticketing Solution

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MAIN SYSTEM

SYSTEM MANAGER

The system manager can, through a web interface, configure all the system parameters including insertion, modification and removal of tickets. The system allows, for example, the definition of combined tickets with special prices to various museums and events. In addition, the manager interface includes tools that allow you to analyze, in real-time, the events generated by the system and obtain corresponding reports.

SALES OPERATOR

Unicard Ticket allows the sale of pre-configured tickets and the corresponding printing, in addition to the use of vouchers as payment method. Tickets are grouped into pages to make it easier to organize and simplify the sale operation. It should be noted that this solution allows you to define combined tickets with special prices for access to various museums or events. You can also set special prices and exceptions.

100% WEB

Simplified service with centralized management, 100% web. Software tailored to your needs with easy customization. Interconnects with access control systems, allowing centralized management. Allows real-time report extraction.

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Theaters

Theater Companies

Movie theaters

Stadiums

Museums

Outlets

Sports Pavilions

Swimming Pools

Exhibition Centers

More info
http://microio.pt/en/project/unicard-ticket/

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QUEUE MANAGEMENT SOLUTION

Simple, intuitive and efficient service

MAIN FEATURES

- Real-time information on waiting times

- User / Operator Management

- Online ticket status information

- Web and email alerts

- Integration with AD solutions (Microsoft Active Directory)

SYSTEM ADVANTAGES

- Simple installation with low maintenance cost

- Optimization of resources and service processes

- Reduction of waiting times and service zones

- Better service quality and greater customer satisfaction

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SMART VENDING

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ANALYSE YOUR SALES.
ONLINE AND REAL TIME.

WHICH PRODUCTS SELL BEST, WHERE AND WHEN?

WHAT MACHINES NEED MAINTENANCE OR REFUELING?

HOW MUCH MONEY IS IN THE MACHINES?

HOW CAN I IMPROVE THE MANAGEMENT OF MY HUMAN RESOURCES?

Smart Vending is a 100% web telemetry solution with decentralized management, which aims to simplify the process of managing vending machines. The Smart Vending solution promotes increased service efficiency, increased resource utilization, and faster response times.

With a real-time alarm system, the vending machine operator can easily schedule maintenance and replenishment of products, manage money within machines and optimize their human resources.

Smart Vending solution is compatible with most vending machine brands on the market and allows integration with existing card systems and connection to the company's databases.

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MAIN FEATURES

Centralized database

Alerts / Notifications (email, SMS)

Reports

Security (administrator, client)

Software tailored to your needs

Online management

MEANS OF PAYMENT

CURRENCIES / NOTES

VIRTUAL PAYMENTS

SMS; RFID / NFC; Debit / Credit Card; Payments via mobile applications;

Virtual Wallets / QR Codes; Paypal

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ALARMS

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REDUCTION OF HUMAN INTERVENTION

Conduct remote, online and real-time management

Optimize your resources through real-time, data-driven management of the state of your machines

AVAILABLE 24/7

E-mail and SMS alerts

Maintain the proper level of service and operation of the machines. Receive a real-time notification via email if the machine has a critical problem

SIMPLIFIED SERVICE

100% web solution

Configuration and consultation of products, operators, sponsors and user profiles
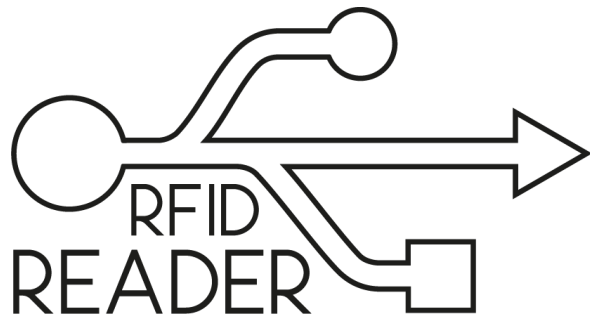
ADAPTED TO YOUR NEEDS

Increase customer loyalty

Create an online profile | Manage your preferences | Provide discounts and happy hours

HARDWARE

The hardware installed in the machine supports the various standard protocols of the vending systems allowing also the connection with diverse sensors and / or detectors.

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HARDWARE SOLUTIONS

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RFID READER

The USB RFID READER is a versatile, simple and economic solution.

It is a portable, plug and play USB RFID READER, needing only to be connected via USB to a computer. The USB interface allows an easy installation and integration with any computer. Simply swipe the RFID tag on the device to start the reading.

The data is sent directly to the computer via the USB cable and can also be imported into Excel® or other software.

- USB 2.
- USB 5VDC 80mA
- Range: 5 cm (depending on the card)
- Standard: ISO 14443 A
- Tags Supported: NTAG 203, FM 11 RF08, MIFARE CLASSIC 1K, MIFARE CLASSIC 4K
- Hexadecimal or Decimal output (optional)
- Operating systems: Windows, Mac and Linux
- Plug and play (HID) or drivers available (CDC)

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MX READER

MXREADER is a decentralized access controller that allows you to automatically control and register all accesses and an access point that is associated. The hosting is done in a simple and intuitive way through the web interface that MXREADER provides when connected via Ethernet or Wi-Fi, and allows a definition of users, groups, schedules, permissions, among others.

Access to capacity of offline, virtual terminal on the connection, and the connection of a service central services provided by Unicard - with the controller question can be integrated in a secure and reliable way.

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INNOVATION PROJECTS

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E-BIKESHARING

5th GENERATION OF BIKE SHARING SYSTEMS AND INTEGRATED MANAGEMENT
WITH GPS AND ELECTRONIC LOCK SYSTEM

Each bicycle has an RFID card reader, GNSS module, cellular communications
(GSM / LTE) that communicate with the central server and an electronic locking
system. All control of the electric motor with sensing and varied performance is
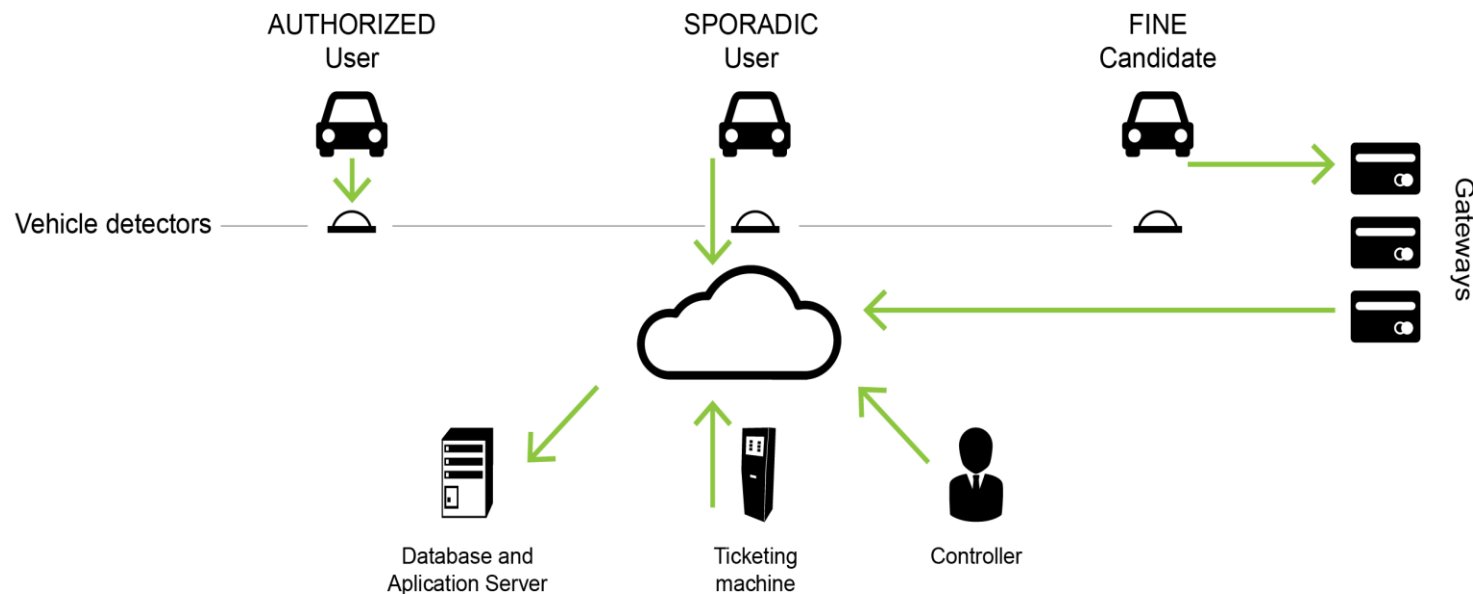also carried out.

bike emotion® ❯ BEWEGEN

Nacional and International partnership

universidade de aveiro · microio · maisis · ubiwhere

bike emotion® · PROCYCLE · Miele · eVox · ROCKY MOUNTAIN · MICHELDALLAIREDESIGNINDUSTRIELINC.

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SMART PARKING

Parking management, where there is reserved or paid parking or even in outdoor parks with adaptation in system of indication of quantity and location of free places.

- Alarm in case of misuse
- Support parking: screen indicating the free spaces
- Ease of payment (smartphone, kiosk, internet)

USER PAYS A FAIR VALUE
what you use, where you use it, when you use it

FUTURE CITIES

Plataform for acquisition of environmental data for installation in fixed and mobile points (STCP Buses) in Porto city.

Coordenation with Competence Center for the Cities of the Future of Universidade of Porto.

Ongoing applications for projects in the Smart Grid area and Crowdsensing.

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