infoart

innovation. knowledge. technology.

MAKING IDEAS HAPPEN

Leading provider of a multichannel payment platform in the area of parking, e-mobility, ticketing and public transport.

From parking to e-mobility and ticketing

## One platform. Multiple services.
IGEUS is a multichannel payment & integration platform that combines different service providers and sales channels in a unique ecosystem.

Pay your parking by mobile (SMS, app)
One of the internationally longest-lived and most successful systems for mobile parking payments. Presented in 2001, the system has been implemented in more than 150 cities and 6 countries, offering substantial savings to parking operators and actual advantages to drivers.

Safe, reliable and flexible
Communication between IGEUS and all parties (service providers, technology partners and sales channels) involved in the system.
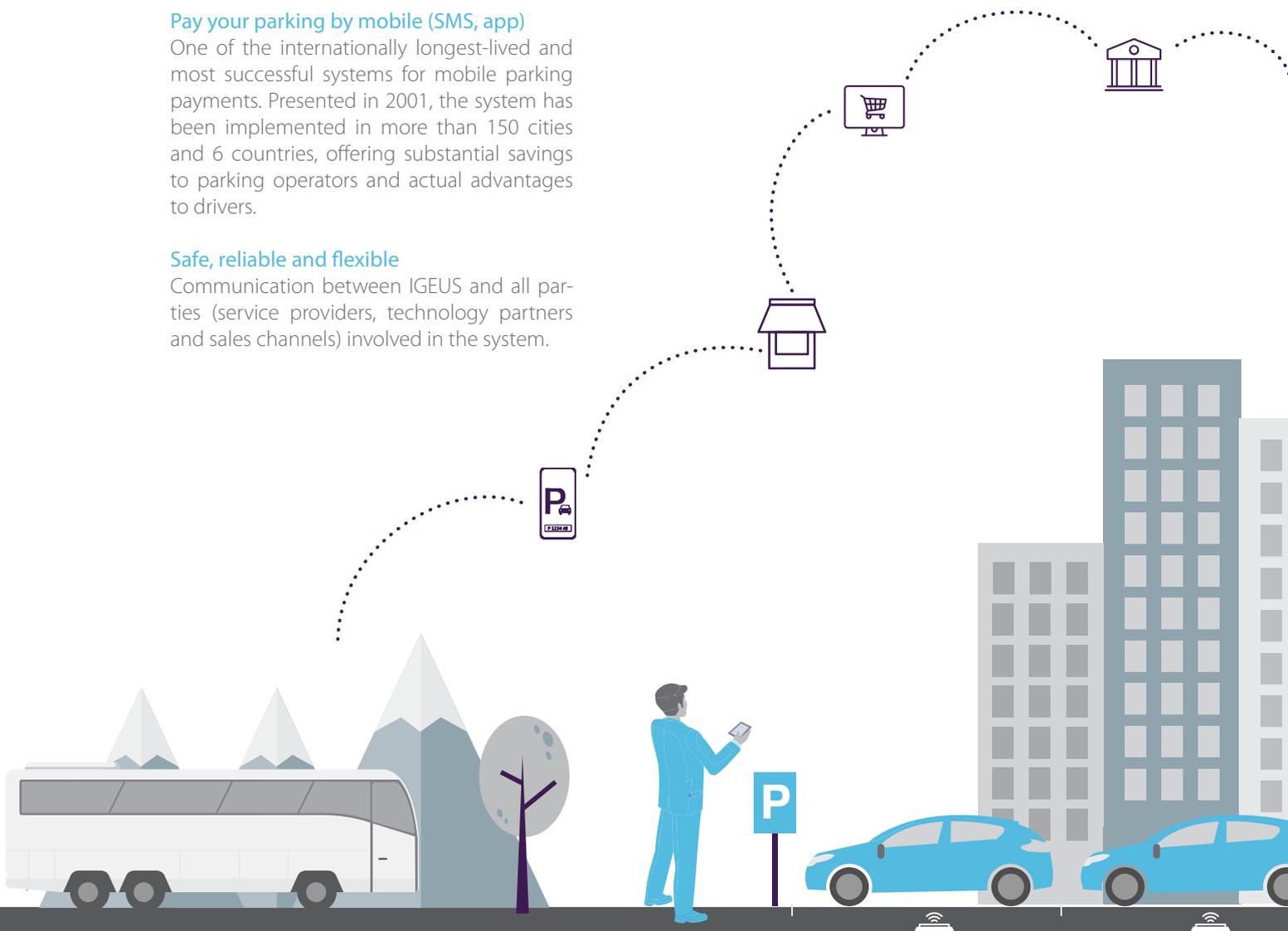
Imagine the idea ...
of an ecosystem where users have a unique digital experience when making payment for parking or charging their cars, riding on public transport or purchasing tickets for a concert or a tourist site. Imagine the idea of all the value that can be added to this experience through different channels. Imagine the idea of a seamless insight in all your data originating from various sources integrated into a single platform.

We have made these ideas happen. Explore how can we make ideas happen for you. Explore our way.

Integration with third party solutions
The platform enables a flexible business model and a unified billing and clearing process for Infoart and third party solutions (smart kiosks, banking and e-wallet apps, retail apps, off-street parking solutions, P&D).

Charging stations
IGEUS is connected to different electric vehicle energy provider platforms enabling a single access point for future infrastructure development.

Ticketing systems
IGEUS integrates with ticketing systems, such as public transport, tourist sites and national parks ticketing systems. A recent major integration was with ticketing systems of all national parks in Croatia.
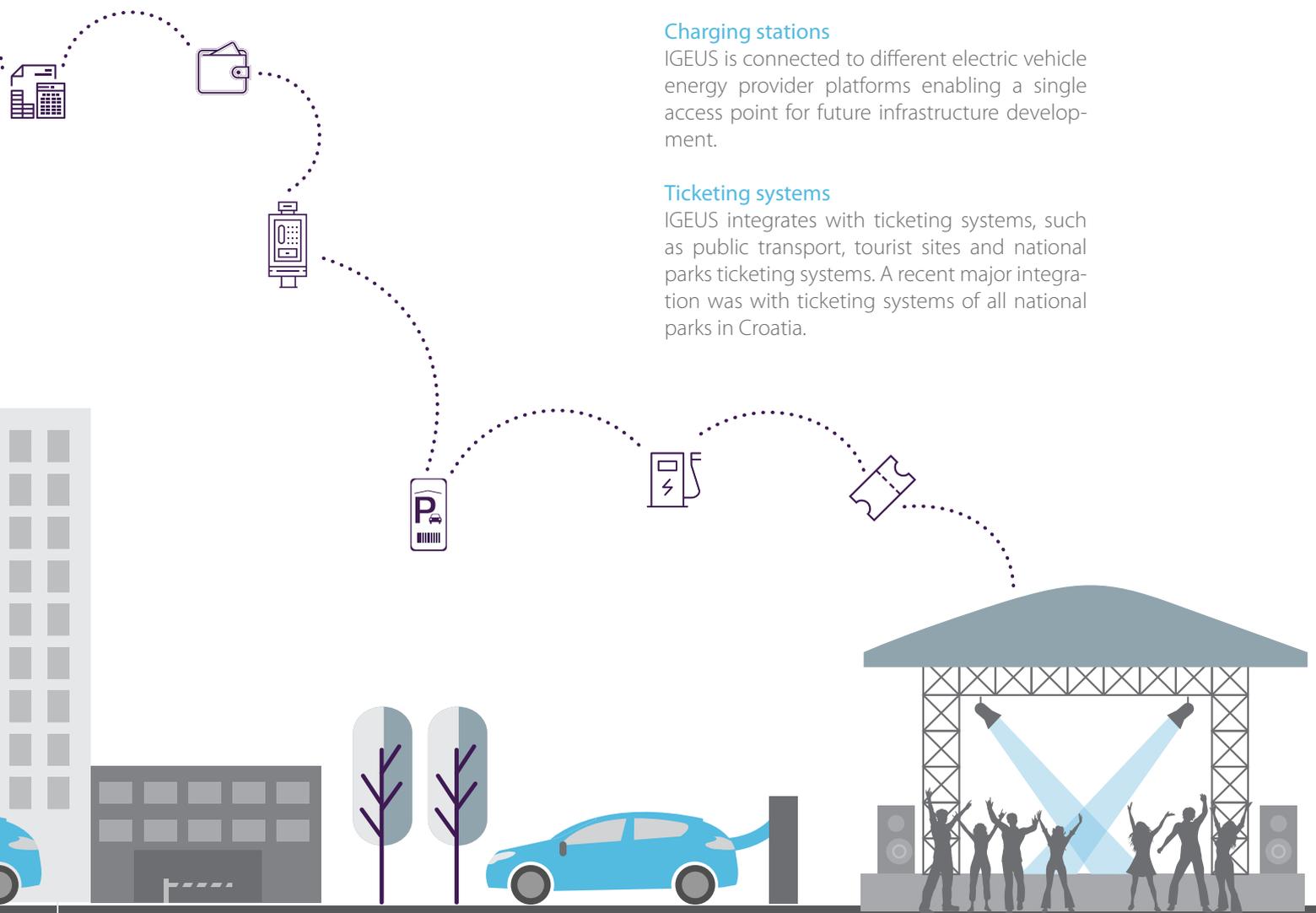
WHO WE ARE

As a pioneer in mobile payment solutions, with the first registration-free SMS parking payment solution in the world, Infoart has been helping its customers to transform efficiency, performance and competitive edge into a digital world.
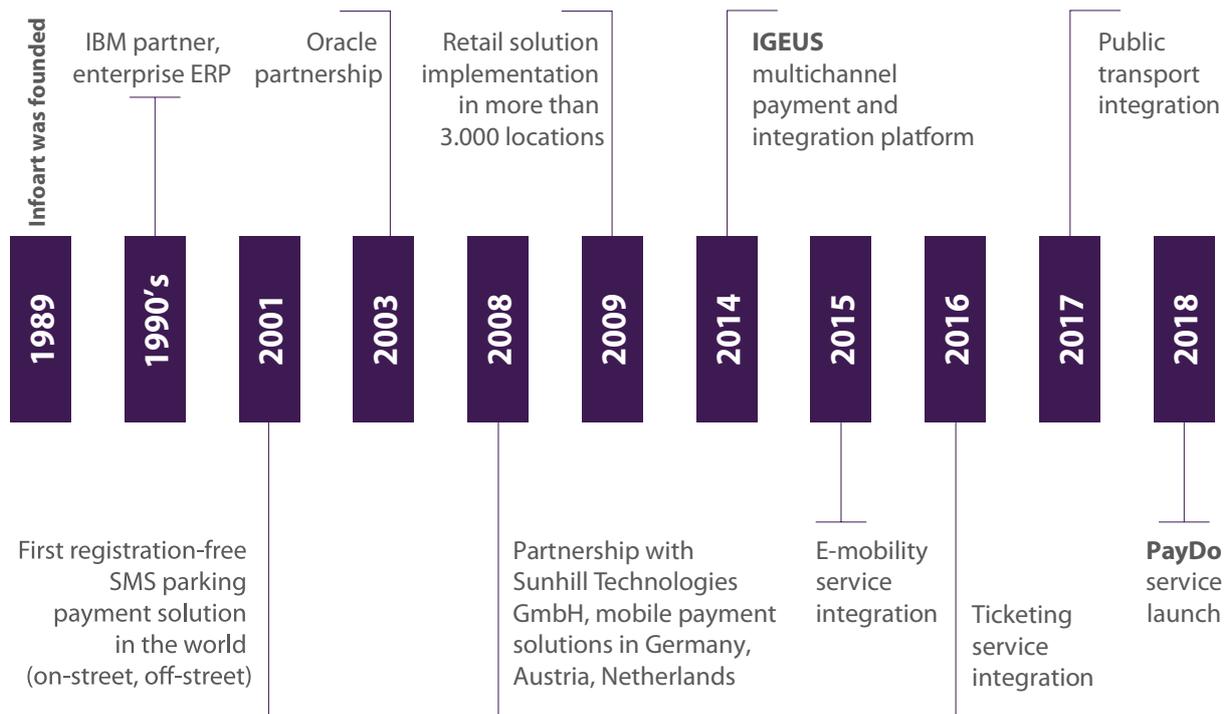
Infoart is the leading provider of a multichannel payment platform in the area of parking, e-mobility, ticketing and public transport. Together with its technology and process partners, Infoart has established an interactive ecosystem for the delivery and payment of various electronic goods and services through diverse sales channels.

With more than 28 years in the market, Infoart has been producing premium software solutions including financial, retail and other management systems for municipalities, parking operators, large retailers, automotive industry and other enterprise organizations both in the Adriatic region and European markets.

As a reliable partner on your journey to a digital transformation, Infoart provides a wide range of IT services, including consulting, development, managed services and integration services on a global level. Our technology and process expertise, thought leadership and confidence in success is drawn from years of involvement in IT that ranges from own software products development to customer-specific solutions and large systems implementations.

Our strongest asset are our employees. Our team consists of highly skilled professionals with extensive experience in different infrastructure and development technologies as well as project methodologies, ready to carry out the most complex challenges. We continuously invest in training, follow the latest technologies and carefully choose the most adequate approach for our projects.

Timeline

Infoart was founded — 1989

IBM partner, enterprise ERP — 1990's

Oracle partnership — 2001

Retail solution implementation in more than 3.000 locations — 2003

First registration-free SMS parking payment solution in the world (on-street, off-street) — 2008

Partnership with Sunhill Technologies GmbH, mobile payment solutions in Germany, Austria, Netherlands — 2009

IGEUS multichannel payment and integration platform — 2014

E-mobility service integration — 2015

Ticketing service integration — 2016

Public transport integration — 2017

PayDo service launch — 2018

Our main technologies include:

Oracle Database • Oracle Weblogic server • Java/JEE • Javascript • HTML 5 • Python • Microsoft .NET native and hybrid mobile development for iOS and Android, virtualization and infrastructure technologies incl. VmWare • NetApp • Oracle Linux • RedHat

Infoart is an Oracle Gold partner, with specializations in the following:

- *Oracle Public Sector Specialization*
- *Oracle Database Specialization*
- *Oracle Java Enterprise Edition Specialization*
- *Oracle Standard Edition Specialization*

Your cloud adoption partner

As a dedicated Oracle partner, Infoart is among the first in the region that is actively offering expert services for the Oracle Cloud Iaas and Paas enviroments. From cloud readiness consulting, to lift & shift services of migrating existing Oracle workloads running on premise to the Oracle cloud, Infoart's experts bring confidence and agility to these processes. The knowledge behind this specialized and complex procedures is a result of years of infrastructure and database projects that we successfully managed on an enterprise level.

Solutions present at more than

3000
locations
in
8
countries

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more than
800.000.000
monthly transactions through all Infoart systems

more than
2.000.000
monthly mobile payments (SMS, app, web) through IGEUS platform

more than
100
service providers and sales channels connected to the IGEUS platform

more than
90%
of all parking payments done through the IGEUS platform

IGEUS – MULTICHANNEL PAYMENT AND INTEGRATION PLATFORM

With an idea of providing a seamless digital experience to end customers, we have created the IGEUS platform – a multichannel payment and integration platform for parking (on and off street), e-mobility, ticketing and public transport.

IGEUS enables various service providers to employ different sales and payment channels for easy and secure delivery of their digital products and services to customers through a single platform.

Utilizing industry open standards, the IGEUS platform provides integration interface components to any third party system, application or platform that wants to be a part of the digital environment.

As a multichannel platform, IGEUS processes all payment transactions incl. initialization, validation, execution and confirmation of the payment. At any given moment, IGEUS gives a secure analytical insight in all digital parking tickets providing parking enforcement solutions with real-time data through a set of standardized interfaces, incl. PDA enforcement apps and Scan-A-Car enforcement systems.

IGEUS Integrations

IGEUS is a market-proven solution, with more than 100 service providers and sales channels involved. We have successfully implemented sales and payment of parking, ticketing and e-mobility services through the following channels:

Infoart PayDo web and mobile app (payment of on-street parking, incl. digital parking permits for residents and commercial users, off-street parking, public transport and e-mobility)

Infoart mParking (registration-free SMS based payment of on-street parking)

Infoart mGarage (registration-free SMS based payment of off-street parking, integrated with leading providers of gated systems, incl. SkiData, Designa, etc.)

Infoart mCharge (registration-free SMS based payment of e-mobility charging, integrated with leading energy provider platforms)

Third party mobile apps (banking apps, Erste Bank wallet app, Split parking navigation app, etc.)

Infoart Park.POS (retail shops, hotels, travel agencies, etc.)

Pay&Display integration

Smart kiosks and vending machines (mVending, Vendotel)
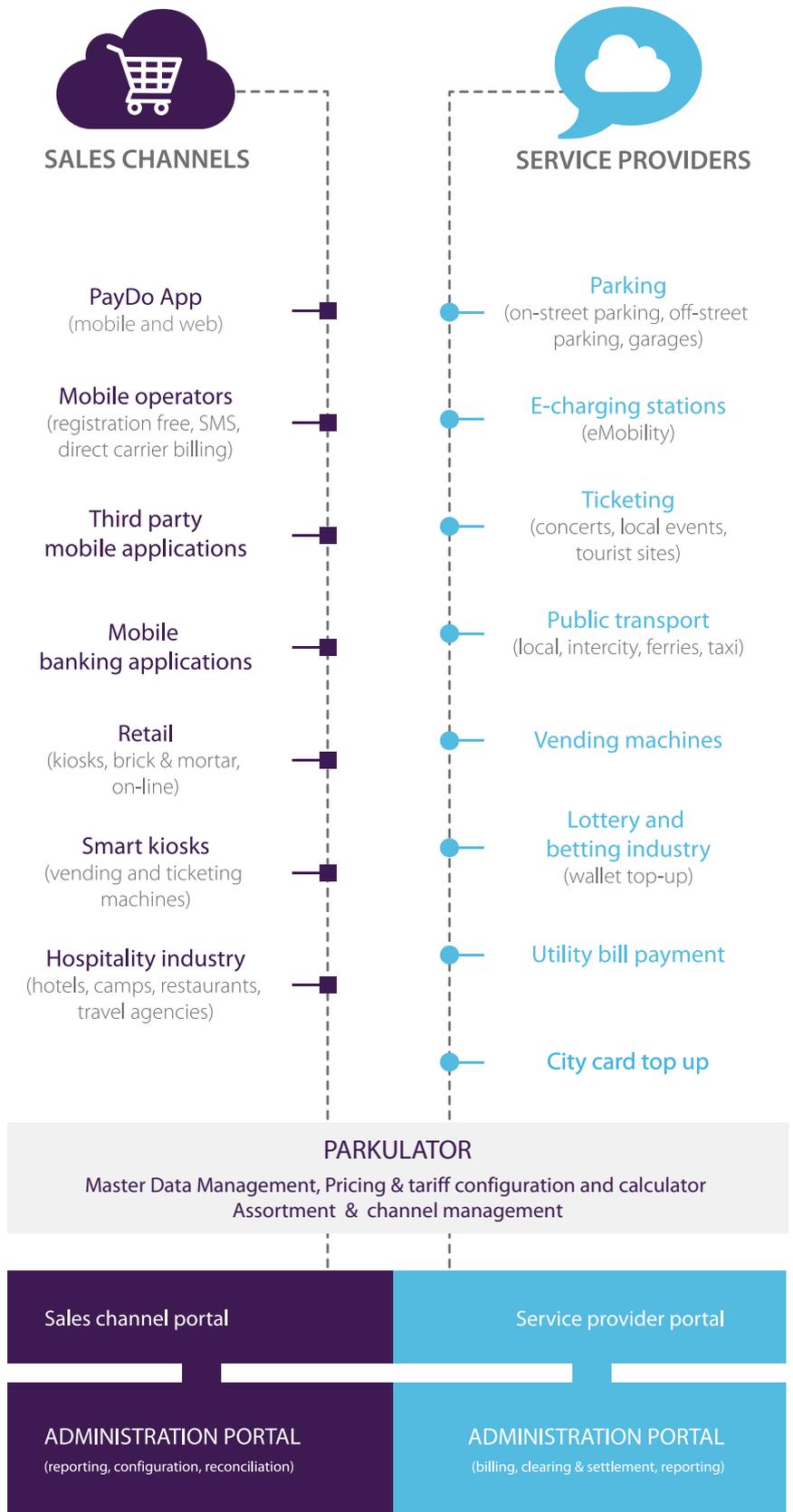
E-commerce web sites (national parks)

- faster time-to-market service implementation
- lower implementation cost
- risk minimization
- flexible business models

With its practically endless possibilities in integration, scalability and expandability, the IGEUS platform is a safe investment by ensuring a sustainable system ready for new challenges that the future brings.
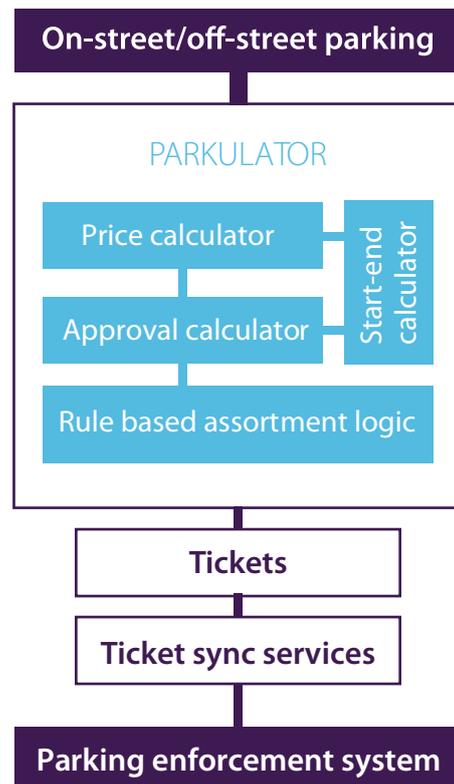
Who uses IGEUS?

SALES CHANNELS

PayDo App
(mobile and web)

Mobile operators
(registration free, SMS, direct carrier billing)

Third party mobile applications

Mobile banking applications

Retail
(kiosks, brick & mortar, on-line)

Smart kiosks
(vending and ticketing machines)

Hospitality industry
(hotels, camps, restaurants, travel agencies)

SERVICE PROVIDERS

Parking
(on-street parking, off-street parking, garages)

E-charging stations
(eMobility)

Ticketing
(concerts, local events, tourist sites)

Public transport
(local, intercity, ferries, taxi)

Vending machines

Lottery and betting industry
(wallet top-up)

Utility bill payment

City card top up

PARKULATOR
Master Data Management, Pricing & tariff configuration and calculator
Assortment & channel management

Sales channel portal

Service provider portal

ADMINISTRATION PORTAL
(reporting, configuration, reconciliation)

ADMINISTRATION PORTAL
(billing, clearing & settlement, reporting)

PARKULATOR

Parkulator is a highly configurable and flexible module for tarrif management, item configuration, automated price calculation and transaction management both for on-street and off-street parking.

Parkulator acts as an add-on module to existing parking systems or any other third party proprietary solution that wants to start their digital transformation. The platform integrates parking service operators with multiple sales channels, enabling flexible business model configuration through per-reseller article assortment management and comprehensive control of all parking transactions.

Based on an open platform design, Parkulator is capable of interfacing with many distributed parking services and systems, such as parking ticket resellers, on-street parking enforcement systems and gated sytems.

For the on-street parking enforcement systems, Parkulator provides interfaces for transaction management consisting of parking fine initialization, verification and confirmation or cancellation. The data can easily be exchanged and synced with authenticated external systems.

On-street/off-street parking

PARKULATOR

- Price calculator
- Approval calculator
- Rule based assortment logic
- Start-end calculator

Tickets

Ticket sync services

Parking enforcement system

PARKULATOR ENABLES
FLEXIBLE TARRIF CONFIGURATION:

Hour, day, multiday, week, month, yearly tickets and digital permits

Pricing calculation, validity definition, constraints management

Driver category management (public, commercial, residents, drivers with disabilities)

PAYDO / my parking assistant

PayDo is a next generation, modern payment service that includes a mobile and web application for fast and easy online purchase of parking tickets, garage entrance or public transport tickets.

It all started with an idea of an ecosystem with a unique digital experience for our customers.

We created our PayDo to make that idea happen. And there is an added value in extending the service to target private users and their families, or business users and their fleet management tasks.

MY PARKING ASSISTANT
paydo

Offering this service to private users makes their life easier and consuming traffic services faster and more convenient.

Business users can separate their personal account from their business account and take full advantage of all PayDo service functionality. Using PayDo, they can enable parking for their employees, customers, and visitors through a single business account.

Using the PayDo service

The process of creating a user profile and adding credit cards that will be used for making parking payments is fast and straightforward. Topping up the account follows the same simple user experience.

Once set up, the customer can opt for an hourly, daily, weekly, monthly or yearly ticket. Special category tickets incl. resident permits or permits for people with disabilities are supported too. All that is needed is to enter or confirm the license plate number, choose parking time and they're done! Or just buy a public transport ticket by selecting the desired one.

Let your users experience the PayDo added value

PayDo allows customers to save the most frequently used parking locations and vehicles (license plates) to the favorites and pay for parking in a couple of seconds. PayDo will remind them about the time of the parking expiration, thus avoiding potential extra costs.

PayDo as an open registration and payment system for 3rd party solutions

PayDo allows other specialized solutions and apps to leverage existing infrastructure components (i.e. registration, payment, billing) and easily connect them to various service providers utilizing the IGEUS platform. Actual real-world case scenarios include on-street parking navigation and reservation systems, automatic LPR solutions for gated areas, public transport apps and e-mobility apps.

Let us create the user experience together!

Providing this service is a joint effort of the parking operator, municipality and Infoart. Seamlessly working on offering a unique digital experience in using traffic services is a step forward to smart cities that serve their citizens in the new digital age.

ERP & RETAIL INTEGRATION

There is more to it than just to have a good idea of a new service. There is a need to build a platform that will connect all the dots – the services must interact and there has to be a central place for the integration of all those services.

InfoartERP

The way we answer this question is a set of highly integrated business applications that together form the InfoartERP. Smart parking solutions, innovative omnichannel approach and seamless integration with other services is our way to form an ecosystem that really makes the customer experience unique, but also fulfils all business needs. Organizations must have the right ERP tools to plan, make and control their work.

Integrations with other systems

Organizations using other vendors solutions, for example SAP, Microsoft Dynamics, AIX, Oracle Fusion and likes, need not to worry – the integration with those systems we manage in different production scenarios (retail, wholesale, financials) is a guarantee that all the processes will run smoothly and flawlessly.

The cutting-edge technology and state-of-the-art architecture led us to realize the complex and very demanding integration between third party retail back-end and our own retail front-end solution for a market leader in retail business in the South-East Europe region. The integration mechanism is responsible for continuous exchange of large volumes of data 24/7/365. The actual figures come close to million transactions per day.

Another successful story is complete integration of retail and wholesale data with ERP implemented in food industry spread over many countries of southeast Europe feeding not only the ERP part of the back-end solution but serving as data source for a BI system that was implemented as a central solution of

the client. Given that different countries have different legislatives, and the challenge to integrate seamlessly and provide equally structured data that are to be exported to the BI system, which has to interpret the data in the same manner, there was no space for error. The project team of Infoart, consisting of business consultants, DB experts and exchange services developers managed to turn that idea into reality.

Among many other implemented integrations, there is one that stands up for its usefulness to our clients. On the domestic market, there are services aimed primarily to the exchange of invoices between business partners. The idea behind this exchange is to completely and securely introduce the electronic interchange of documents traditionally mailed over conventional channels. Infoart responded with immediate integration with those services, thus ensuring our clients cheaper, faster and more secure exchange of invoicing data with their business partners

We make ideas happen. With you!

The digital transformation we witness is all about connected processes, interactive services and forming a unique, integrated digital experience. The world is connecting as never before and the organizations have to utilize modern, next-generation tools that will ensure their digital future.

There is a whole new generation, not only the millennials, but also the Generation Z, that have never lived without a digital infrastructure. Their expectations are nothing less than full connectivity and flawless customer experience throughout the world of digital services. Habits are changing faster and faster, and back-end systems that constitute the backbone of exposed front-end digital services have to evolve to form an ecosystem that will serve all of tomorrow's world needs.

That's the idea. Together we'll make that idea happen!

The InfoartERP in its core consists of:

FIKS - a financial package
POSIA - a multichannel sales solution
HRIDS - an integrated human resource management solution

The **IGEUS platform** for mobile payments and e-commerce stands in the middle as an integration point that ties all the merchants and all customers through the multichannel integration platform.

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