cacttus®

Solution Provider

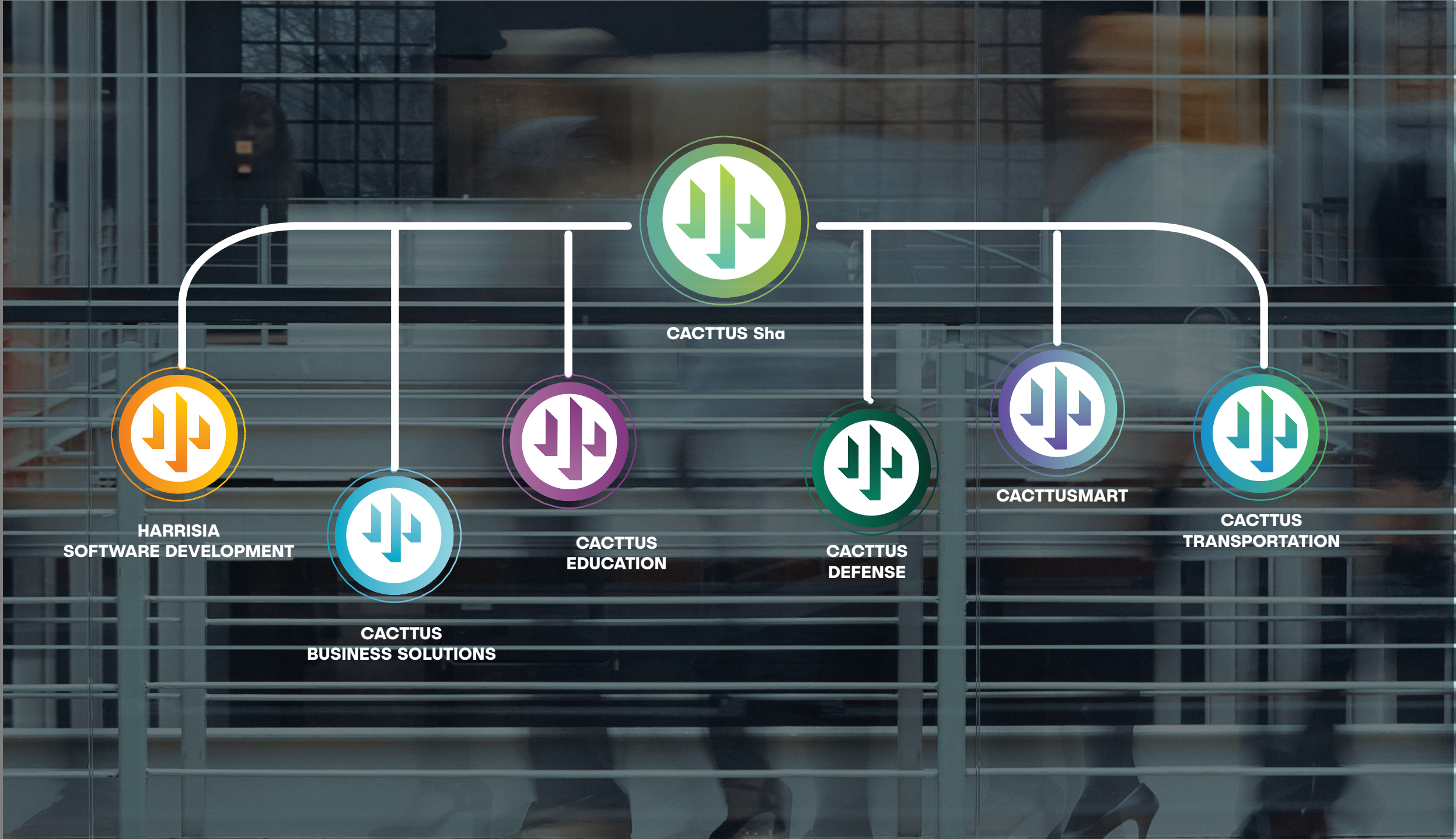
Introduction

CACTTUS is the leading company in Kosovo providing solutions and services in the field of Information and Communications Technology and Telecommunications.

With over **18** years of company experience and more than **30** years of individual experience of our founders, we have earned the reputation for high performance and reliability which is based on providing services and products which represent innovation and quality for a wide range of industries.

Founded on July 3rd, 2003

ISO Certified: **ISO 9001• 27001• 20000-1• 45001• 90003 12207•**


CACTTUS Sha
HARRISIA
SOFTWARE DEVELOPMENT
CACTTUS
BUSINESS SOLUTIONS
CACTTUS
EDUCATION
CACTTUS
DEFENSE
CACTTUSMART
CACTTUS
TRANSPORTATION

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CACTTUS as an Information and Communications Technology and Telecommunications company offers the following services:

- System Integration
- Networking and Telecommunications
- Cloud Services

System Integration

System Integration division helps clients linking together different computing systems and software applications physically or functionally, to act as one.

Products and services offered:

- End-User Devices
- Data Center Equipment
- Installation, Commissioning and Technical Assistance Services for End Users
- Advanced Solution Configurations, Data Storage and Security Solutions
- Data Center Maintenance Services
- Server Virtualization Solutions

System Integration

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Solutions, Systems and Platforms:

- Server Virtualization (VMware and Hyper-V)
- Microsoft Azure
- Desktop and Application Virtualization (VDI)
- Data Protection Solutions

Server Solutions (High Availability of Services):

- Deployment of Active Directory Services
- Designing Server Active Directory DS & AD Forests
- Configuration of Active Directory Environments
- Configuration of Advanced Active Directory Roles with Advanced Security Features
- High Availability of Services with Failover Clustering
- Exchange Server Deployments (On-premise)
- Real-Time Failure Detection
  High Availability Hardware, Storage & Networks

Complete control over your data with simplicity, efficiency, and flexibility:

- Core IT Server Infrastructure Planning (IT Auditing - Planning IT Audits)
- Business Continuity: Design and Setup for Disaster Recovery (DR) Sites
- Centralized Control
- Data Migration Services
- Server Roles and OS Migrations
- Patch Management
- Windows Security Solutions
- Remote Desktop and Assistance
- Support and Deployment Services
- Backup Solution Services

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Network and Telecommunications

Network and Telecommunications division provides clients with the right expertise to design, troubleshoot, implement and manage wired and wireless networking systems such as:

Advance Wireless Systems
Design, Implement and Maintain
Consulting and Audit

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Network and Telecommunications

Network services:

- Infrastructure and Maintenance
- Design & Planning
- Deployment & Support
- Analysis and Reporting
- Security & Monitoring
- Software-Defined Networking
- Managed Network Services
- Wireless Design and Implementation
- Voice Services (VoIP)
- VPN Services
- High availability (chassis clustering)
- Enterprise and Service Provider level experienced

Network and Telecommunications

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Design, Implement and Maintain:

- Meeting your Bandwidth and growth needs
- Cost-effective solutions
- Headache-free maintenance and 24/7 support
- Multi-vendor experienced with all the market leaders
- Vast Reseller partnership

Advanced Wireless Systems:

- Simulated Radio Frequency Planning
- Centralized Solutions for smooth user experience
- Indoor Navigation through Wireless Analytics
- IoT ready
- Real Time Location Tracking

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Cloud Services

Cloud service division offers an integration of digital technology into all areas of your business, changing the way you operate and how you deliver to your customers. All modules and processes are tailored to the customer needs.

- Software for End Users
- Digital Transformation

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Benefits from Digital Transformations are as follow:
Lowering Operating Costs
Facilitation of Administrative Requirements
Faster Decision Making
Save Time
Minimize Errors
Monitoring the Production Process
Instant Reports
Work Remotely
Software Suitability

Cloud Services

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Modules that were developed and are used by our clients are:

Human Resource

- Leave Request
- Performance Evaluation
- Business Travel

Procurement

- Purchase Request
- Payment Request
- Procurement Document Structure

Project Management

- Project Registration
- Task Management
- Project Document Management

Report Generation

Digitval Approvals and Timestamp

harrisia®
CACTTUS Software Development

- Product Software Development
- Mobile Application Development
- Advanced Web Development

harrisia®
CACTTUS Software Development

Harrisia – CACTTUS Software Development

Harrisia Software Development team services range from consulting to a detailed implementation solution that meets all requirements in the field of software development

- Software Product Development
- Mobile Development
- Advanced Web Development

harrisia®
CACTTUS Software Development

Harrisia – CACTTUS Software Development

Harrisia products offer the following benefits:

- Software tailored to the specific needs of the client
- Long-term Investment
- Increase Productivity
- Scalability
- Custom Connection with other Solutions

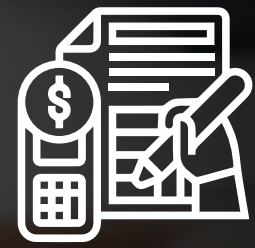
harrisia®
CACTTUS Software Development

Harrisia – CACTTUS Software Development

Products developed by Harrisia – CACTTUS Software Development are used by different industries and are as follow:

ARK - Application for Restaurants and Cafes
POS - Enables sales with and without barcode reader. Suitable for Retail
HIS - Health Information System
LIS - Laboratory Information System
SMS Engine
Dergesa Ime – eCommerce Solution
Tender and Procurement Management System
Electronic Notary System
Payroll

cacttus®
Business Solutions



Enterprise resource planning system
Customer relationship management system
Solutions for financial enterprises

CACTTUS Business Solutions

Business Solutions services are mainly concentrated in offering IT-based solutions which enable companies and organizations to be more efficient in their daily operations, and to have the ability of obtaining a detailed real-time overview on what is going on within the organization.

Excellent products and services which help companies' growth and sustainability are offered by the experienced and certified Business Solutions team.

Strengths

- **Top global solutions in combination with local implementation and support services**
- **Flexibility of custom-tailored solutions for specific industry and company**
- **IT implementation complemented with business consultancy**
- **Microsoft Solution Provider Agreement (for selling MS Dynamics Licenses)**
- **Turnkey solutions including professional services, software licenses and add-ons, core IT infrastructure services and hardware**

CACTTUS Business Solutions – Services

cacttus® Business Solutions

PRODUCTS & SERVICES

- Consulting
- Analysis and Design
- Customization and Development
- Integration with External Systems
- Maintenance and Support
- Project Management
- Change Management
- Training

MICROSOFT

- Microsoft Dynamics 365 Business Central
- Microsoft Dynamics NAV
- Microsoft Dynamics CRM
- Microsoft Biztalk

OTHER PRODUCTS

- Safefleet – Fleet Management
- Dynamics Mobile – mobile sales and warehouse

ERP FUNCTIONALITY

- Financial Management
- Purchase and Procurement
- Sales and Marketing
- Inventory Management
- Warehouse Management
- Manufacturing

CACTTUS Business Solutions - Services

ADDITIONAL MODULES AND ADD-ONS

- Mobile Sales
- Mobile Warehouse
- HRM and Payroll
- PoS for hospitality sector
- PoS for other retail
- Custom Integrations with
- Hotel Management Systems
- Fuel Dispenser Systems

OPEN SOURCE

- Open ERP
- Sugar CRM

OTHER SOLUTIONS

- Customer Relationship Management
- Human Resource Management
- Procurement Management
- Fleet Management
- Vertical Solutions for Financial Industry

CACTTUS ADD-ON PRODUCTS

- Payroll
- ARK - PoS for hospitality sector
- C-PoS - PoS for other retail
- AMIS - Procurement Management

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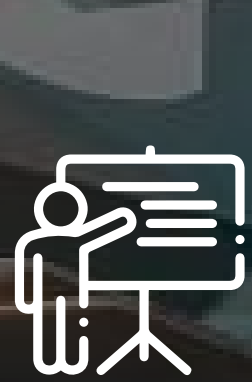
Education



- Professional Education
- Training & Certification

cacttus® Education

CACTTUS Education

CACTTUS Education is the first associate V level professional school in the field of Information and Communication Technology. As a higher education institution, CACTTUS Education provides students with a professional two-year study program in the most attractive fields of employment of the Information Technology (IT) Industry.

The two study majors are:

- System and Network Administration
- Web and Mobile Application Development

CACTTUS Education

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System and Network Administration
The program for the profile “System and Network Administrator” is focused on preparing the students for the position of a system administrator in medium sized and big companies.

Web and Mobile Application Development
The professional profile program for the major "Web and Mobile Application Developer" is designed to prepare students to start and built a career in programming, as a team member in a company, or as self-employed.

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CACTTUS Education

Other trainings offered:

- Word Press Development
- Front-End Development
- Back-End Development
- Java Script
- Java
- Python
- SQL and My SQL
- PHP
- iOS App Development
- Android App Development

cacttus®
Defense & Security

CACTTUS – Defense & Security

CACTTUS – Defense & Security

- Information Security
- Cybersecurity
- Surveillance & Investigation
- Forensics

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Defense & Security

Information Security

- Cyber Hygiene
- Information Security Audit
- Information Security Consultancy
- IS Design & Development
- Vulnerability Assessment

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Defense & Security

Cyber Security Services

- Managed Detection & Response
- Automated External Assessments
- Automated Email Compromise Monitoring
- Access Management Solution
- Awareness Training Platforms
- Red Teaming / Penetration Testing
- Cyber Simulation Centre Services
- Automated Evaluation of Existing Security Controls
- Implementation of Security Solutions for both Mid-Cap and SMEs
- Managed Honeypot Services
- Cyber Partner Management Platform
- Virtual Cyber Bootcamps & Training
- Remote Breach Support
- Threat Intelligence, Enrichment and Analysis
- Post-Breach Investigation Support
- Security Policy and Plans
- Managed Under Incident Hotline
- Organizational Audit & Recommendations

cacttus®
Defense & Security

Public Video Surveillance

- Providing cloud-based video surveillance products for physical security and business operations.

- Cloud platform and **Artificial Intelligence (AI)** dramatically transform your video surveillance system into an even more powerful tool.

cacttus®
Defense & Security

Forensics

CACTTUS – Defense and Security in partnership with worldwide known vendor in the field of questioned document examination, offers the following services in this area:

- Fingerprint Detection, Capture & Enhancement
- Crime-lite Forensic Light Sources
- Questioned Document Examination
- Trace Evidence Analysis

Public Video Surveillance

VMS solution with infinite scalability, a wide array of advanced analytics and an open API platform for unlimited customization finds a broad range of applications in all industries such as:

- Government
- Law Enforcement
- Cities
- Education (Universities, Colleges etc.)
- Logistic
- Retail
- Healthcare etc

cacttus®
Smart

CacttuSmart

CacttuSmart

CacttuSmart as one of the newest company under the CACTTUS sh.a. umbrella, specializes in the smart city technology to help improve citizen security, increase the efficiency of public management and to promote transparency in government decisions, among many other advantages.

CacttuSmart provides Smart Solutions for:

- Mobile Network Operators
- Transport Authorities
- Health Sector
- Cities, Municipalities & Government

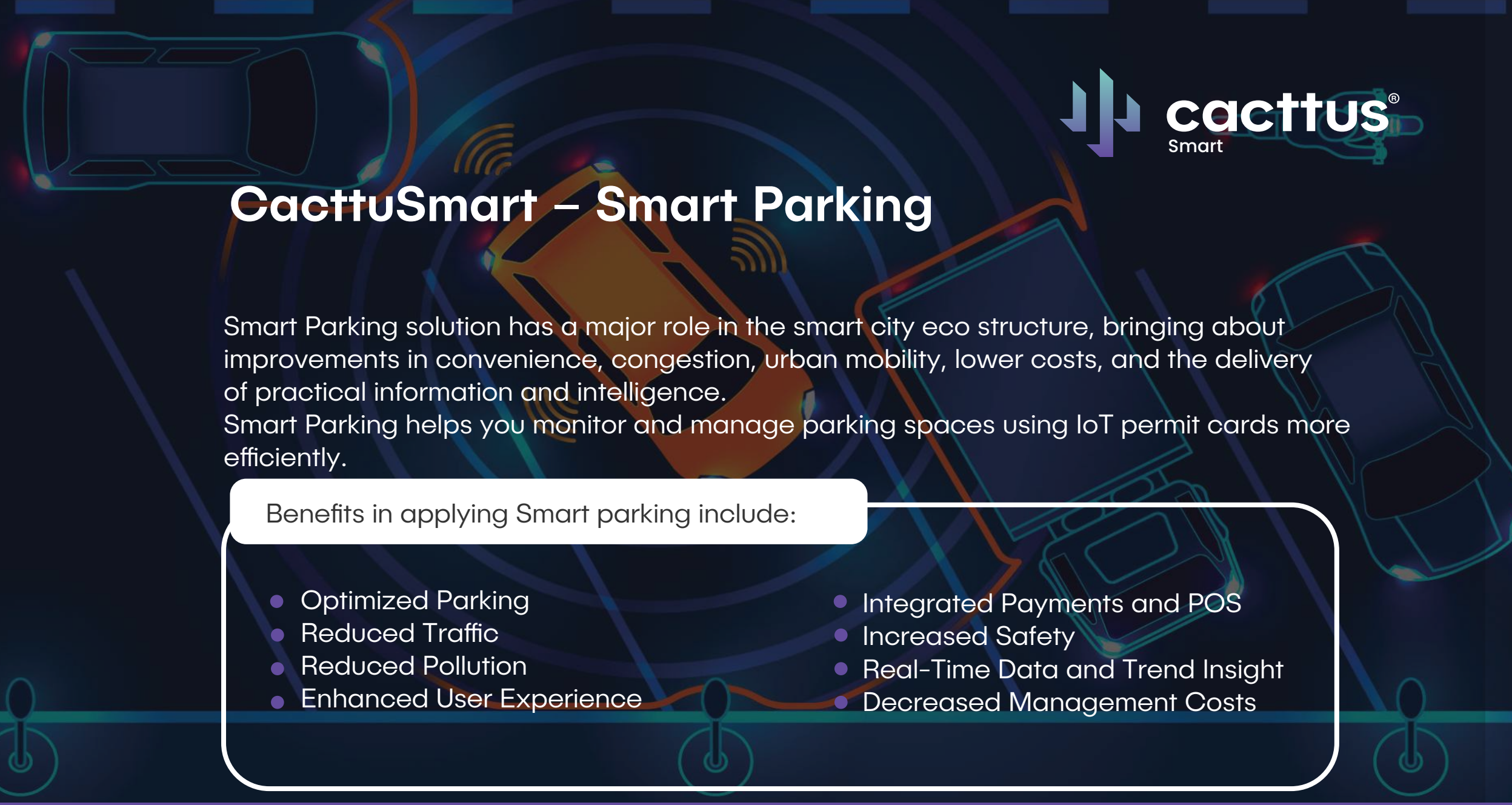
CacttuSmart IoT service offering includes:

- Smart City Pole
- Smart Parking
- Smart Farming
- Smart Water

CacttuSmart – Smart City Pole

Smart City Pole brings a new perspective on how to combine multiple services into one product including:

- Air Monitoring
- Data Analyses
- Overview of intensity of each cycle route
- Secured and Controlled Wi Fi
- Touch Panel
- Charging of eBikes , eScooters or other devices (via USB Its functionality makes it an ideal device for any type of cycle route. Another advantage is the integration of all digital IoT supporting solutions for urban mobility, smart city and more into a single digital point
- Security (camera, SOS)



cacttus® Smart

CacttuSmart – Smart Parking

Smart Parking solution has a major role in the smart city eco structure, bringing about improvements in convenience, congestion, urban mobility, lower costs, and the delivery of practical information and intelligence.
Smart Parking helps you monitor and manage parking spaces using IoT permit cards more efficiently.

Benefits in applying Smart parking include:

- Optimized Parking
- Reduced Traffic
- Reduced Pollution
- Enhanced User Experience
- Integrated Payments and POS
- Increased Safety
- Real-Time Data and Trend Insight
- Decreased Management Costs

CacttuSmart – Smart Farming

Smart Farming is a management concept focused on providing the agricultural industry with the infrastructure to leverage advanced technology – including big data, the cloud and the Internet of Things (IoT) – for tracking, monitoring, automating and analyzing operations.

Among the technologies available for present-day farmers are:

- Sensors: soil, water, light, humidity, temperature management
- Software: specialized software solutions that target specific farm types or applications agnostic IoT platforms
- Connectivity: cellular, LoRa
- Location: GPS, Satellite

cacttus® Smart

CacttuSmart –Smart Water (Quality and Management)

Water Management activity affects multiple sectors: agriculture, farming, industry, services, cities, etc. Monitoring potable water, detecting chemical leakages in rivers, controlling real-time leakages in the sea, tracking pressure variations along pipes and checking water quality in facilities such as fishfarms or swimming pools are some examples.

Smart Water detects the most relevant parameters related to water quality control such as dissolved oxygen, oxidation-reduction potential, pH, conductivity and temperature.

Features

- High accuracy sensors
- Real-time information, continuous monitoring
- Interoperability: any wireless technology
- LPWAN and cellular communication protocol for isolated locations

CacttuSmart - Computer Vision Smart City Applications

Cacttus brings you all the expertise, use cases and benefits powered by AI for the entire segment.

Cacttus Smart city solutions, we have emerged, enabled by technologies such as the Internet (IoT), Artificial Intelligence (AI), Deep Learning and Cloud Computing. They offer vast potential to address infrastructural, societal, security and pandemic challanges.

Cacttus offer Computer Vision Smart City Applications

- Safety and Security Applications in Smart Cities
- Traffic and Infrastructure Monitoring
- COVID-19 or generally Pandemic Measures for a Smart City
- Other Smart City Computer Vision Applications

CacttuSmart - Air Quality / Weather monitoring

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Air quality technology

Air quality technology scans air pollution dispersal in the square and pollution exposure for pedestrians bikers, drivers and local residents. It also monitors and stores relevant air pollutants and produces reports to assit urban planning. The smart city pole durt sensor detects air quality, temperature and humidity all in one.

Weather monitoring technology

Weather monitoring technology measures atmospheric conditions to provide information for weather forecasts and to study the weather and climate. It also provides actual information for citizens about temperature, atmospheric pressure,humidity and wind speed or direction. The weather monitoring technology measures data automatically (once per hour, ... etc.)

CacttuSmart - Real Time Monitoring and Managment of Reduction CO emissions in a Smart Cities (CO footprint)

• Digitization process helps cities in a real time thanks to the advanced network of monitored, managed savings and increased efficiency transform your efforts into CO2 reduction benefits and so offer citizens new quality of life.

cacttus® Smart

CacttuSmart- Smart Irrigation System

Smart irrigation systems tailor watering schedules and run times automatically to meet specific landscape needs. These controllers significantly improve outdoor water use efficiencies. Unlike traditional irrigation controllers that operate on a preset programmed schedule and timers, smart irrigation controllers monitor weather, soil conditions, evaporation and plant water use to automatically adjust the watering schedule to actual conditions of the site. For example, as outdoor temperatures increase or rainfall decreases, smart irrigation controllers consider on site-specific variables, such as soil type, sprinklers' application rate, etc. to adjust the watering run times or schedules.

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Smart

CacttuSmart - Complete Monitoring System To Control Waste Water Infrastructure

Accurate, Real-Time Data

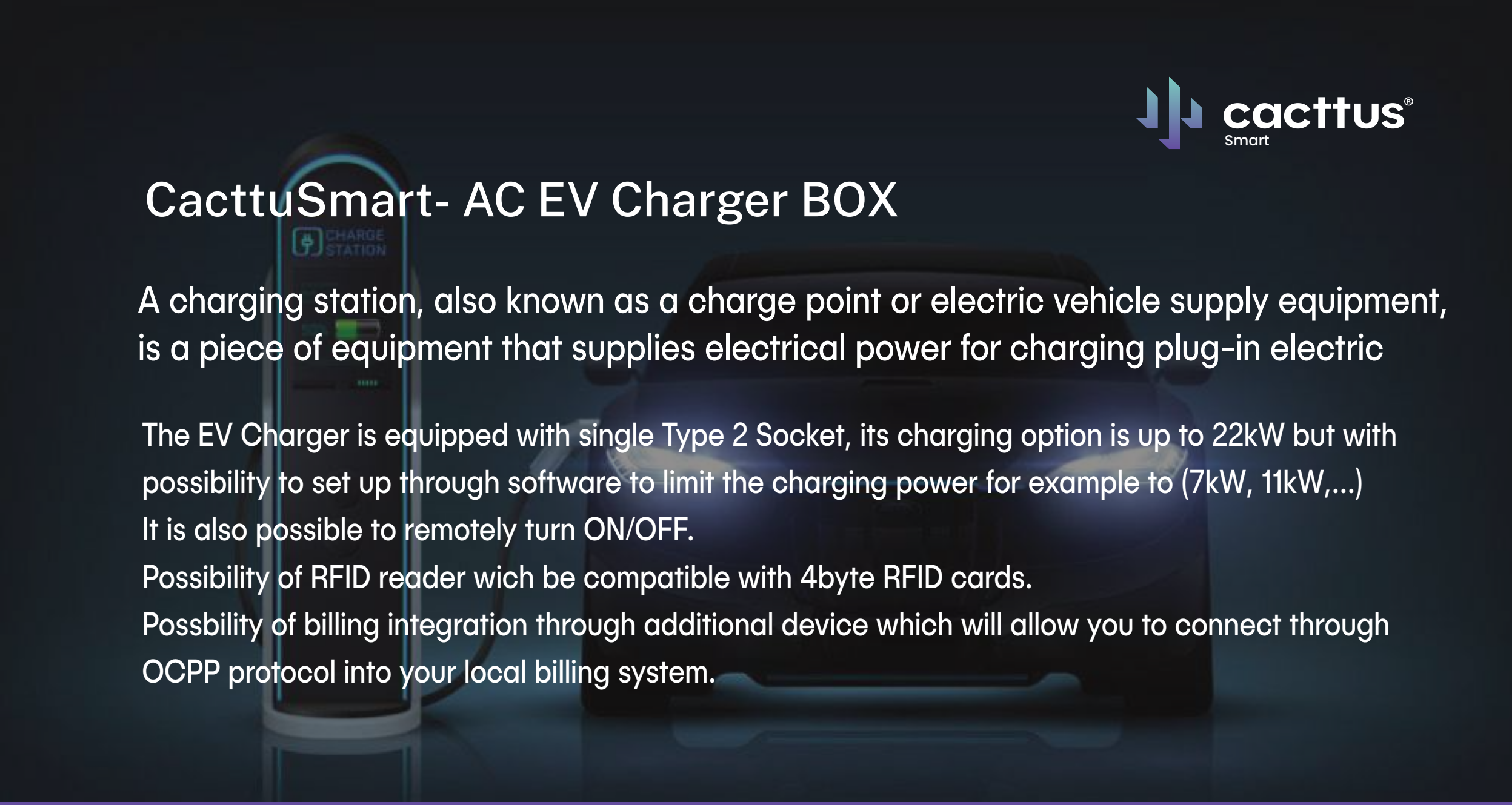
In order for municipalities and water authorities to proactively manage their networks they need data; and they need the correct real-time data.

Predictive Analytics

In addition, they need the tools and technology to correctly analyze, synthesize and process this data to make adjusments capacity utilization as well as and to optimize maintenance ans servicing. Predective analytics.

The Aim

We develops, together with a number od partenerrs a smart system for the measurement and analysis of a various wateqater parametres. The aim is to create a low cost system to cleverly control wastewater and the infrastructure of a sewerage system.



cacttus® Smart

CacttuSmart- AC EV Charger BOX

A charging station, also known as a charge point or electric vehicle supply equipment, is a piece of equipment that supplies electrical power for charging plug-in electric

The EV Charger is equipped with single Type 2 Socket, its charging option is up to 22kW but with possibility to set up through software to limit the charging power for example to (7kW, 11kW,...)
It is also possible to remotely turn ON/OFF.
Possibility of RFID reader wich be compatible with 4byte RFID cards.
Possbility of billing integration through additional device which will allow you to connect through OCPP protocol into your local billing system.

CacttuSmart - Transport - Smart bridge IoT Solution

an adaptive system for information and holistic evaluation in real time monitoring.

The Smart Bridge in the "Digital Test Area 1" is the first new with measuring systems equipped bridge in Slovakia that is released for traffic.

An important advantafe of equipping a new bridge with measuring systems is that the load-bearing behaviour and the condition of the new bridge as well as its components are detected precisely and reliably.

The bridge in the "Digital Test Area" is equipped with five information systems that collect relevant loads and reactions of the bridge structure.

CacttuSmart- Smart Monitoring of Torrents

Advantages

The unique design and construction bring several advantages like:

- Easy installation and integration
- Maintenance - free
- Very robust and low power consumption
- Highly sensetive acoustic measurement
- No moving and optical parts
- No wear and tear
- No wind influence
- Ready for Offshore use
- Counting raindrops per class and size
- Lightweight
- Corrosion-free
- UV/Ozone stable
- Resistant to shock vibration, lighting, ashes 100%

cacttus® Smart

CacttuSmart - Smart Traffic Counter

Micro

- suitable for one/two directional traffic monitoring (straight segments)
- FLOW Insights, real-time processing, fully configurable, Open API, traffic events & alerts & evidence
- Xavier NX, up to 2 IP PoE+ cameras including PTZ

suitable for:

- highway traffic monitoring
- pedestrians & cyclists counting
- queue detection (traffic, retail)
- parking management
- wrong way detection
- speeding detection

Macro

- suitable for complex scenes such as intersections and roundabouts with mixed traffic
- FLOW Insights, real-time processing, fully configurable, Open API, traffic events & alerts & evidence
- Xavier AGX, up to 3 IP PoE+ cameras including PTZ

suitable for:

- road flow control
- adaptive traffic lights
- traffic violation reporting
- retail store heat maps, interactive stores
- U-turn detection
- perimeter protection (security)

CacttuSmart- Sewer Network Monitoring Solution

Is a solution for the continuous monitoring of a sewer networks. It makes it possible to detect clogging, to indentify the parastic inputs (parasitic clear water) and the active surfaces, to follow continuously the dynamics of the network and the increase in load.

Benefits

- Better anticipate of cleaning / maintenance actions
- Improve rain falls management
- Comply with regulatory constraints

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Transportation

CACTTUS Transportation

CACTTUS Transportation

Leader in the IT/Communication/Telecom services and solutions for transportation sector market in Kosovo/Albania;

- Telecommunication System
- Signalling System Services

Provides a full range of services, from consultancy to engineering for detailed design projects, equipment supply, installation, testing and commissioning services, training and professional post deployment support & maintenance services; comprehensive project management capabilities; supervision services.

Telecommunication System

Full suite of services in Telecommunication systems in all stages of a project, from:

- Planning to Design
- Project Management to Implementation
- Supervision

With strong base of global vendors; Growing partnerships based on trust, CACTTUS Transportation offers the following services/products in this area:

- Digital Transmission System,
- Station Telecommunication System
- Dispatching System
  - VoIP
  - Video Surveillance
  - Intercom System
- Passenger Information System (Video/Audio -PIS/PAS)
- Clock System
- GSM-R System services
- F.O. Backbone Network

Signalling System Services

cacttus® Transportation

Integrated Solution comprising state-of-the-art Signalling System Products:

- ETCS train control system
- Interlocking
- CTC – Central Traffic Control
- Level Crossing

Services: Supply of Hardware and Software Installation, On-site Integration; Testing; Commissioning; Staff training; Professional Support & Maintenance; Supervision Services.

Products and Services

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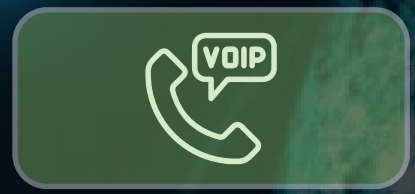
Networking

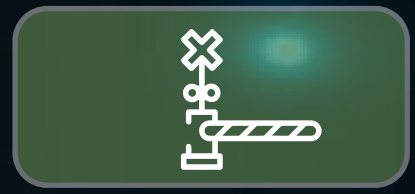
MPLS



VoIP

GSM-R

Signaling



Level Crossing

F.O. Network

Smart City

Dispatching System

Passenger Information System PIS

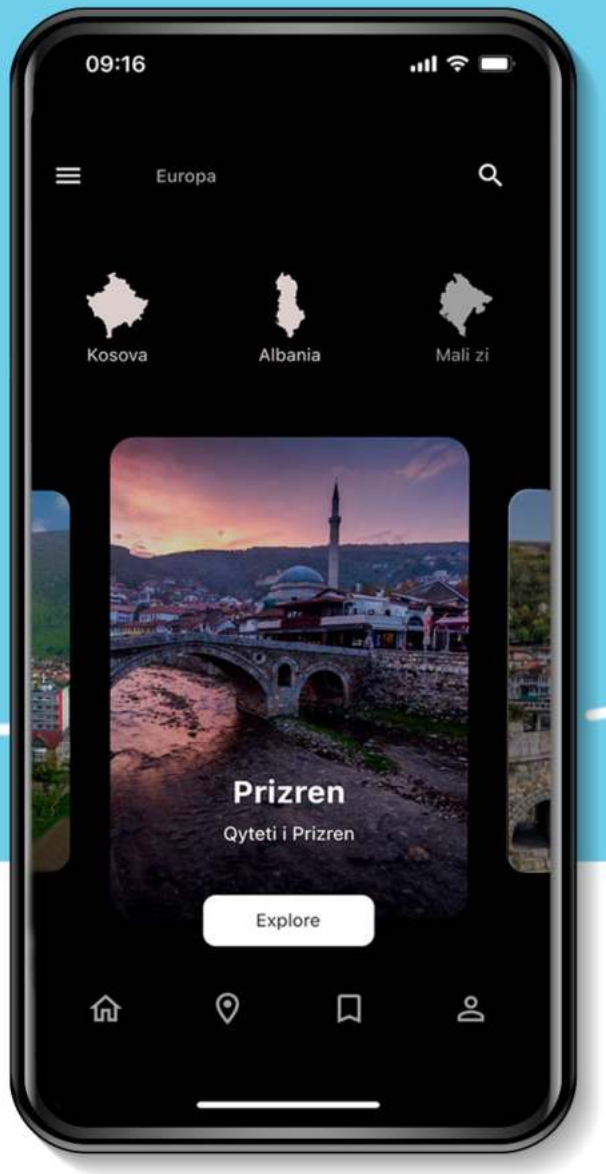
Passenger Announcement System PAS

Video Surveillance

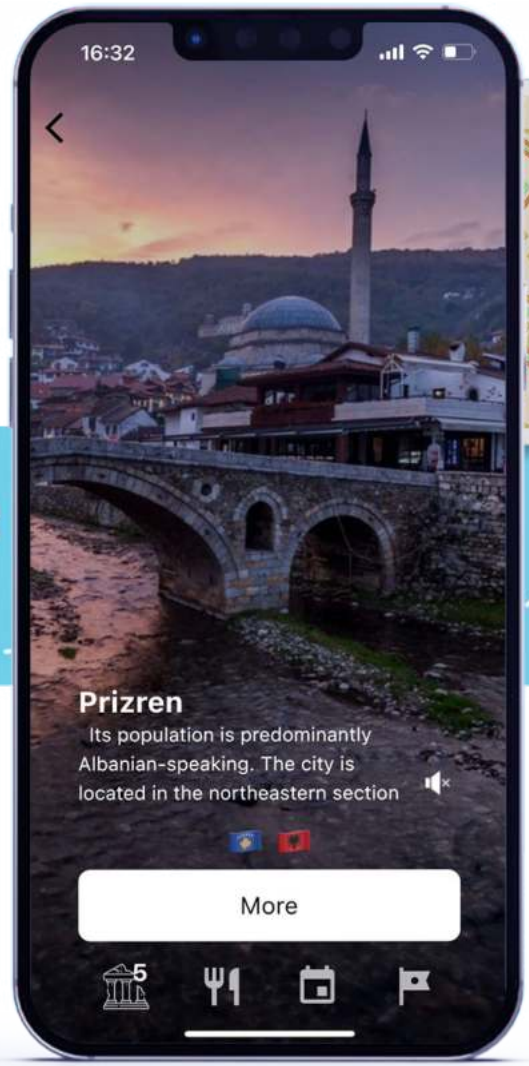
Clock System

Our Solutions

Cicerone



Turn your mobile device into a personal cicerone.



Cicerone

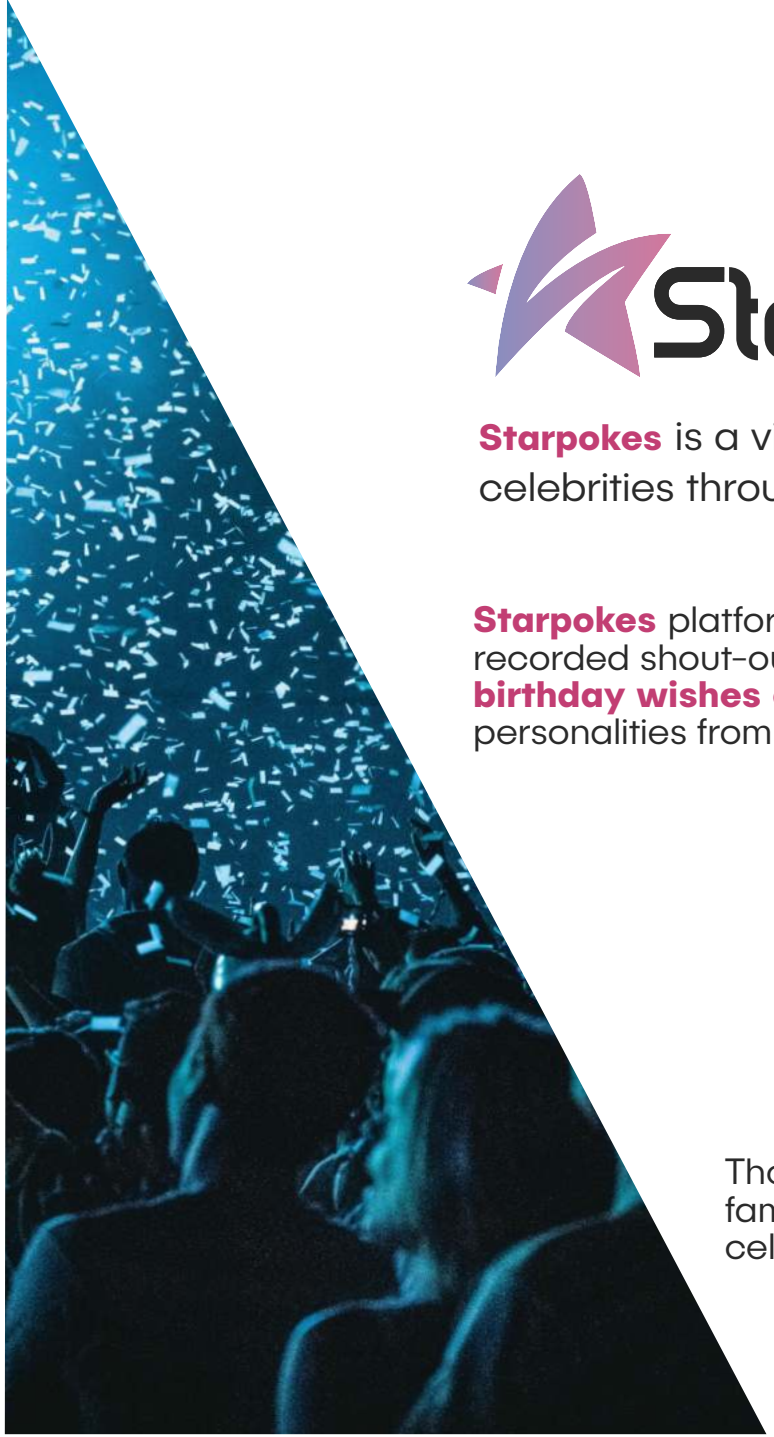
Cicerone

Cicerone is an audio guide application that turns your mobile device into a personal cicerone.

All you need is your phone, and we will be your cicerone, you will listen end enjoy your visit as we inform you about different spots around you, as we describe the places with the voice recording and photos in the language of your choice.

Cicerone contains audio information for the most visited places of the city and even better, the app makes suggestions on where you should stop for lunch or entertainment.

Starpokes



Starpokes

Starpokes is a virtual Platform that connects fans and celebrities through **personalized video messages**

Starpokes platform allows fans to request and purchase personalized, video-recorded shout-out messages for any occasion like **big announcements, birthday wishes or any other event,** vome of the country's most popular personalities from a diverse set of fields including:

Sports **Television** **Music** **Cinema**

Thousands of celebrities and social media influencers are already part of our family and Starpokes gives the opportunity to connect directly with your favourite celebrity, artists, sports star, or any famous personality or upcoming influencers.

Yuuniq

What we want to convey through our social media posts:

- Yuuniq is easy to use, accessible anywhere and reduces the costs of the healthcare system
- Our platform will improve patient experience with effective approaches
- Makes the access to the doctor and pharmacy and the patient's medication as easy and efficient as possible.

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