INNOSENSE
TECHNOLOGIES (PVT.) LTD.

THE FUTURE OF INNOVATION

COMMITTED TO INNOVATION, EXCELLENCE & SUSTAINABLE BUSINESS SOLUTIONS.





INNOSENSE
TECHNOLOGIES (PVT.) LTD.

About us

Founded in 2026, ***INNOSENSE TECHNOLOGY (PVT) LTD***. is a Pakistan-based technology solutions provider focused on transforming complex and disconnected hardware and software systems into integrated, efficient, and future-ready IT environments. By aligning modern technologies with clients' strategic objectives, the company simplifies technology infrastructures and helps organizations achieve their business goals more effectively.



- **Customer Relationship**

  Built on years of trusted customer relationships.

- **Products & Services**

  Committed to maintaining the highest quality in our products and service offerings,

- **Partnership**

  long-lasting relationship with our partners.

- **Resources**

  In our people and their dedication to quality

INNOSENSE
TECHNOLOGIES (PVT.) LTD.



Understanding

Modern Technology and Implementation of Sustainable Systems

Our organization embraces modern technologies to deliver efficient, reliable, and sustainable solutions that support digital transformation and long-term growth. By integrating advanced ICT and system integration capabilities with emerging technologies such as Artificial Intelligence, Robotics, and Intelligent Transport Systems, we create intelligent platforms that enhance operational efficiency and decision-making.

We implement innovative solutions including Enterprise Applications, Track and Trace Systems, Dark Fiber / ME Networks, and Advanced BI & Analytics to ensure seamless connectivity, data-driven insights, and optimized performance. Our expertise also extends to Call Centre Solutions, UAV Services, Public Safety and Security systems, and Orchestration Platforms, enabling organizations to operate securely and efficiently in a digitally connected environment.

Through Fintech Solutions, Infrastructure Services, and Managed & Professional Services, we support sustainable digital ecosystems that improve service delivery and reduce operational costs. In addition, our Smart City Consulting and Solutions focus on building future-ready urban environments that leverage technology for smarter governance, improved mobility, and enhanced quality of life

INNOSENSE
TECHNOLOGIES (PVT.) LTD.

VISION & MISSION

Our Vision

Enhancing customer satisfaction by delivering advanced technologies that enable sustainable and integrated solutions.

Core Values

Our customer friendly approach, strong technical expertise, positive attitude, and commitment to high business ethics have helped us earn strong recognition in both local and international markets.



“We deliver sustained comfort, not just solutions”

INNOSENSE MANAGEMENT & LEADERS

Muhammad Rashid Khan
CEO

30+ Years Experiance

M. Naeem Bajwa
Managing Director Sales & Marketing (Pakistan & Africa)

30+ Years Experiance

Gen. (R) Tanveer Ahmad
Chief Technical Consultant (Pakistan & Africa)

30+ Years Experiance

Muhammad Iftikhar
IT Consultant (Pakistan & Afric)

25+ Years Experiance

Mr. Yasir Akram Qureshi
Advocate High Court / (Company Legal Consultant)

10+ Years Experiance

INNOSENSE
TECHNOLOGIES (PVT.) LTD.

Group Core Areas / Services

- *Consulting Services*
- *ICT & Systems Integrations*
- *Artificial Intelligence & Robotics*
- *Intelligent Transport Systems*
- *Track and Trace Solution*
- *Dark Fiber / ME Network / UTP*
- *Call Centre Solution (Local/Intl.)*
- *Smart City Consulting / Solutions*
- *Smart City Consulting / Solutions*
- *Public Safety and Security*
- *BPO & UAV Services*
- *Advanced BI & Analytics*
- *Orchestration Platforms*
- *Fintech Solutions*
- *Infrastructure Services*
- *Managed & Professional Services*





INNOSENSE
TECHNOLOGIES (PVT.) LTD.

INNOSENSE Group – Presence & Credentials



Principals with Partnerships	
DELL	VISA
Oracle	HikVision
Motorola	Dahua
Schneider	KentKart
3CX	Huawei
H3C	VmWare
Solarwinds	Fortinet
SOPHOS	Zonerich
Lenevo	Dlink
SAS	Sonic Wall
JUNIPER	Avigilon
Veeam	& More

Principals with Partnerships
Lahore Chamber of Commerce & Industry
Pakistan Software Export Board

FBR PAKISTAN

WEBOC
Web Based One Customs

PAKISTAN PSEB SOFTWARE EXPORT BOARD

THE LAHORE CHAMBER OF COMMERCE & INDUSTRY LAHORE 1923 SERVICE PROSPERITY

INNOSENSE
TECHNOLOGIES (PVT.) LTD.

Turnkey Solutions Offerings





INNOSENSE
TECHNOLOGIES (PVT.) LTD.

Turnkey Solutions

INTEGRATED SOLUTIONS

- City Wide Surveillance Solution
- Call Center Solution
- Building Control System
- AV System Integration
- ELY Solutions

IT SOLUTIONS

- Business Intelligence & Analytics
- Data Centre Solutions
- Internet of Things
- Information Management & Security
- Al & Robotics
- Cloud Based Solutions
- IT Assessments & Consultancy Services

SURVEILLANCE / SEC SOLUTIONS

- CCTV Surveillance & Monitoring
- VMS-Video Management System
- Video Analytics Solution
- Fiber Intrusion Detection
- E- Fencing

ACCESS CONTROL SYSTEM

- Biometric Time Attendance Machine
- Turnstile & Speed Gate
- Road Blocker
- Under Vehicle Surveillance System
- Parking Management
- Baggage X-Ray Machine
- Walk Through Gate / Metal Detector

VIDEO WALL SYSTEMS

- Video Walls
- Matrix Switch
- Video Processor

UAV SOLUTIONS/MECHATRONIC

- Aerial Surveillance Solutions
- Multi Copter
- Fixed Wing
- Vertical Takeoff and Landing
- Multi-Payload Configuration

INNOSENSE
TECHNOLOGIES (PVT.) LTD.

Turnkey Solutions | Continued

ENTERPRISE APPLICATIONS

- Time Management Solution
- ERP
- Pay Roll
- HR Module
- Asset Management System
- Customized Application Development

PUBLIC ADDRESS SYSTEM

- SMTV System
- Background Music (BGM) System
- Audio Visual System
- IPTV System
- Digital Signage Solutions
- Lighting & Illumination

ACCESS CONTROL SYSTEM

- Biometric Time Attendance Machine
- Turnstile & Speed Gate
- Road Blocker
- Under Vehicle Surveillance System
- Parking Management
- Baggage X-Ray Machine
- Walk Through Gate / Metal Detector

ITS SOLUTIONS

- Comprehensive Intelligent T ransport system (ITS)
- Automated Fare Collection (AFC)
- Bus Scheduling System (BSS)
- Vehicle Location System (VLS)
- EMV & Online Payment Gateways
- Business Intelligence based Analytics
- Data Center solution

BMS

- HVAC Equipment Control
- Energy Efficiency and optimization
- Air-conditioning Plant Control
- Hotel Management system
- Smart Home Solutions
- Lighting Control

AUDIO/ VIDEO SOLUTIONS

- Projectors, Screens, switchers
- Intercom System (Audio & Video)
- Video Conferencing System
- Translator systems
- Queue Management System
- Central Clock System

INNOSENSE
TECHNOLOGIES (PVT.) LTD.

Cloud Solutions

Big Data Mid-End

- Advanced Analytics Suite
- Data Visualization Tool
- Machine Learning Platform
- Data Asset Management
- Smart Center (Models, Tags)
- Data Warehousing/Distilling

Refined Management

- Customer Insight
- Operation Insight
- Risk Insight

Cloud Computing

- Offline Computing
- Online Computing
- High concurrency database
- RDS

Precision Marketing

- Batch Campaign
- Event-driven Campaign
- Viral Marketing
- Next Best Action Marketing
- Data Analytics
- AI Bots

Intelligent Call Center

- Customer Service Robot
- Intelligent Outbound
- Intelligent Quality

AI / ML

- Object Detection
- Facial Recognition
- Perimeter Security
- NLP Solutions

INNOSENSE
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AI / ML Solutions

Financial Services

- Cyber-Threat Detection
- Cash Optimization
- Accounting and Auditing
- Employee Retention
- Anomaly Detection

Telecom

- Predictive Customer Support
- Predictive Fleet Maintenance
- Smart City Integration and Audit
- Data Analytics

Healthcare

- Referral Automation
- Hospital Capacity Simulation
- Gene Mutation AI
- Abnormality Detection (Radiology)
- Clinical Decision Support

Manufacturing

- Predictive Manufacturing Design
- Predictive Maintenance
- Supply Chain Optimization
- Transportation Optimization
- Quality Assurance

Marketing

- Next Best Offer
- Lead Scoring
- Smart Segmentation
- Content Personalization
- Next Best Action

Retail

- Assortment Optimization
- Pricing Optimization
- Heatmap (Hot/Cold Isle)
- Product Placement / Replenishment

INNOSENSE
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Electrical / Electronic Solutions

Electric Lights

- LED Lights Bulbs
- LED Lights Ceiling

Energy Efficiency solution

- Electrical Works
- Solar System Residencial / Commercial

INNOSENSE
TECHNOLOGIES (PVT.) LTD.

Core Solutions & Services



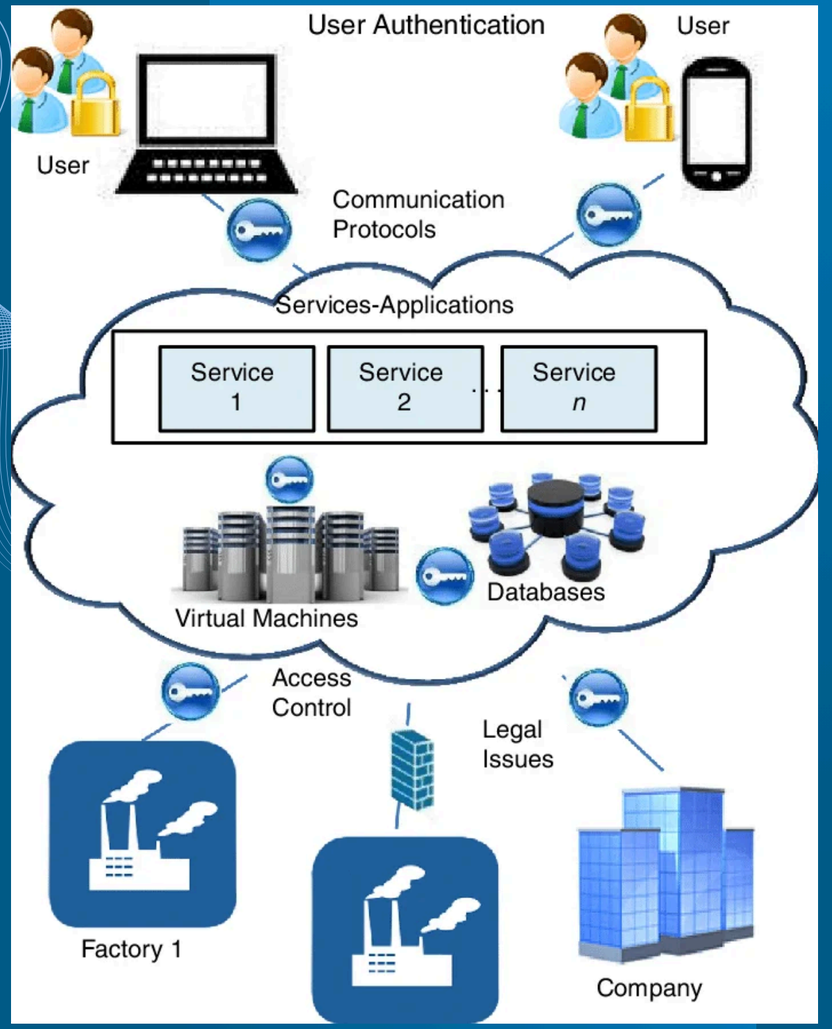
INNOSENSE
TECHNOLOGIES (PVT.) LTD.

ICT & Systems Integrations

We do not limit ourselves to merely integrating world class IT equipment to deliver end to end solutions. To create greater value for our customers, we also maintain a highly skilled and professional software development team capable of providing customized software solutions tailored to specific business needs.

We are proud to offer a comprehensive range of products and services, including:

- Network, Cybersecurity, Data and Storage Integration
- Cloud Computing and Large Data System Integration
- Artificial Intelligence and Machine Learning Integration
- Wireless Network Planning and Integration
- Enterprise Unified Communication Integration
- Security and Video Monitoring Integration
- Internet of Things Integration
- Enterprise RFID System Integration
- E Government Network and Services Integration
- AR and VR System Integration
- Smart City Solutions and Associated Systems Integration



ICT & SYSTEMS INTEGRATIONS

A key aspect of our ICT philosophy is the ability to integrate seamlessly with other systems. Our commitment to open technology ensures that our products deliver comprehensive solutions, with features designed to help you gain maximum value and performance from every ICT system or component.

INNOSENSE
TECHNOLOGIES (PVT.) LTD.

Cyber Security

AI Powered

Cybersecurity information is everywhere around us. The real challenge arises when creating or enriching your own cyber intelligence. It requires identifying the most relevant information from large volumes of unstructured data, both within and outside the organization, and effectively structuring, analyzing, classifying, visualizing, reporting, and sharing it. By doing so, organizations can utilize both structured and unstructured intelligence beyond the limitations of individual domains. Previously stand alone cybersecurity operations such as forensics, malware analysis, IT security actions, and OSINT can now be integrated and evaluated more efficiently. This approach strengthens collaboration and information sharing across different disciplines, departments, and agencies, ultimately producing actionable intelligence.



INNOSENSE
TECHNOLOGIES (PVT.) LTD.

Social Media Monitoring

Multi Pipeline Ingestion

Identifying the account that write in (Facebook, Twitter, Youtube, Instagram);Collecting and indexing the flow of messages of these accounts; conducting search in this information flow.

• Automatic generation of socio-psychological profiles and connection graphs for all accounts, a system to detect the presence of signs of risk in the account and groups etc.

• Artificial intelligence for photo and video analysis.

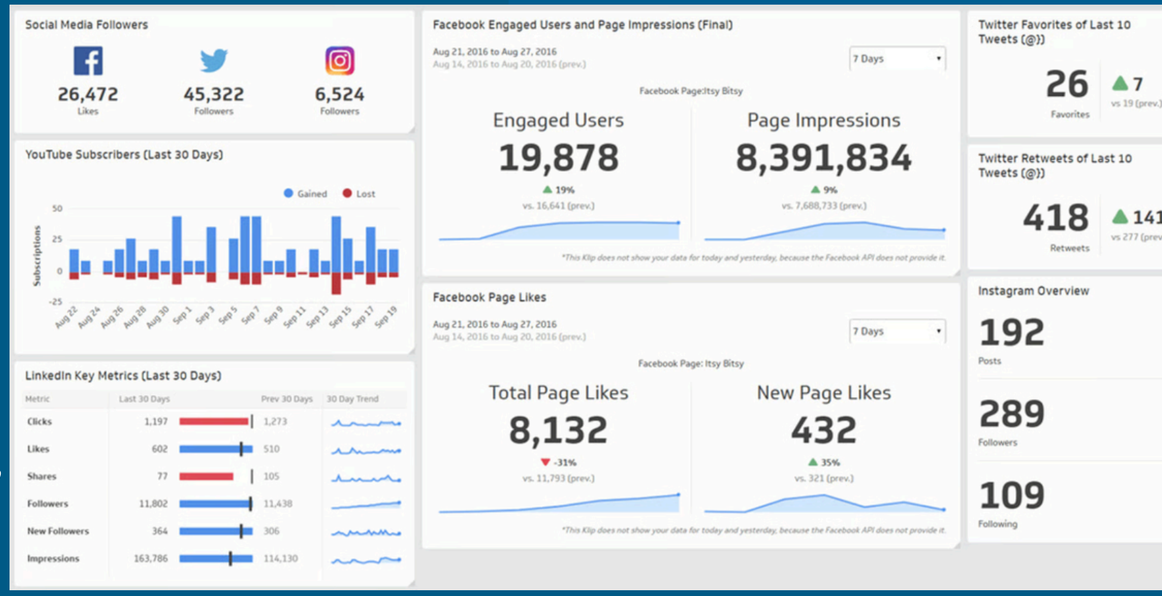
• Recognition of appearance features, favorite clothing brands, cars, recognition of the environment (park, beach. restaurant. resort, office, etc.).

• Search for similarities between photos/frames from different inputs.

• Downloading hundreds of millions of messages per day with desired Data Retention.

• Detection of emerging events, clandestine groups and movements, trends and regularities.

• Understanding the sentiment of statements, recognizing popular themes, identifying the necessary objects in the texts.



INNOSENSE
TECHNOLOGIES (PVT.) LTD.

Analytics & BI Solutions

The Perfect Experience

Firms that invest heavily in advanced analytics capability can out-perform their corporate peers with business intelligence and analytics tools. Our expertise allow us to offer an unmatched integrated analytics suite that allows you to: Explore and exploit corporate data for strategic business advantages, analyze huge quantities of data to make discoveries, solve complex problems and deploy results throughout the enterprise.

Obtain the best results and discover new insights more quickly and easily. Move from pockets of analytic excellence to the pervasive use of evidence-based decision making. Work with consultants to integrate enterprise analytics, and business intelligence on the network or cloud and start making much smarter decisions



Key Components

A complete BI ecosystem usually includes:

- Data Collection (databases, APIs, IoT, social media)
- Data Warehousing / Data Lake
- ETL / Data Integration
- Data Modeling & Analytics
- Visualization Dashboards
- Predictive Analytics & AI
- Reporting and Decision Support

INNOSENSE
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BUSINESS APPLICATIONS SOLUTIONS

The Perfect Experience

INNOSENSE TECHNOLOGIES (PVT.) LTD offers next generation internationally recognized brands and global market leading platforms as part of it's solution offerings Information management costs continue rising as modern organizations become increasingly service oriented and data driven. Firms need formal business applications to create efficiencies and increase productivity. As organizations continue to look to become agile to respond to competitive pressures, intelligent applications become a key part ofenabling that responsiveness.



INNOSENSE TECHNOLOGIES (PVT.) LTD believes that the right strategy addresses business process re-engineering,mobile applications, content management, and compliance needs to transform the way clients do business .. We bring industry specific solutions which have proven best practices incorporated in the workflows and can be tailored to the specific needs of a customer

INNOSENSE
TECHNOLOGIES (PVT.) LTD.

TRACK AND TRACE PLATFORM

TraceX | Visibility across the board

TraceX offers cutting edge brand protection, Track & Trace solution that provides more transparency, safety and ethics in trade flows. The solution encompasses private companies, government and consumers. TraceX addresses the needs of industries (not limited to pharma) building on unique expertise in providing solutions for high speed production lines and large volume of products to complete Supply chain up to consumer transparency.



Features at a glance

Marking on Goods with a unique and secured identifier compatible with standard marking equipment used by manufacturers up to 1000+/ packs per minutes

- Solution proven and cost effective using standard components
- Can Track & Trace products at all packaging levels from manufacturing throughout the supply chain

INNOSENSE
TECHNOLOGIES (PVT.) LTD.

Business Process Outsourcing

As one of the pioneers in business process outsourcing (BPO), INNOSENSE TECHNOLOGIES (PVT) LTD has deep and diversified expertise across a range of industries and business process outsourcing solutions. We help businesses and government departments provide essential services to millions of people every day while making a measurable impact on their operations.





Reduce costs

Create Value through people, process and technology at scale



Optimize process

Be more efficient, flexible and secure



Improve experiences

Drive engagement and loyalty of end user

INNOSENSE
TECHNOLOGIES (PVT.) LTD.

FINTECH SOLUTIONS

Middleware | Digital Wallets | KYC



Digital-only Banks

- Being one of the most pivotal technologies to emerge in recent years, Blockchain is listed among the fintech trends with the greatest potential. Its applications for the financial industry are huge. Blockchain solutions have effectively enabled a banking revolution; instigating a move away from traditional centralized procedures to safer, fairer, decentralized finance.

BlockchainAnd Decentralized Finance

- Financial consumers are feeling increasingly time-pinched as they try to juggle home and work commitments with managing their personal finances. WithAI and machine learning technologies, innovative fintech businesses can automate financial decision-making and savetheir customers valuable time.
- AI and ML are also enabling fintech firms to harness Big Data, to find meaningful patterns in customer behavior that can lead to smarter financial decision-making. With this new intelligence, they can effectively tailor their products and services to match consumer desire.

Autonomous finance with AI and machine learning

- Services like P2P transfers, cryptocurrency sales, contactless payments with free transfers, and international remittances.
- According to a recent World Bank report, there are still up to 1.7 billion people without access to the global banking system. So the significance of opening up access to essential financial services cannot be underplayed.

INNOSENSE
TECHNOLOGIES (PVT.) LTD.

DATACENTER ARCHITECTURE AND DESIGN

One window solution

- Comprehensive Datacenter Designing
- Datacenter Upgrade/Expansion Planning and Deployment
- Tier-1 to Tier-3 Datacenters
- Access Control System
- HVAC System
- Fire Suppression System
- Redundant Power System (Online UPS and backup Generators)
- Plenum Grade Power and Ethernet Cabling
- Anti Static Raised Access Floor
- Ceiling and Under Floor Cable Routing systems



INNOSENSE
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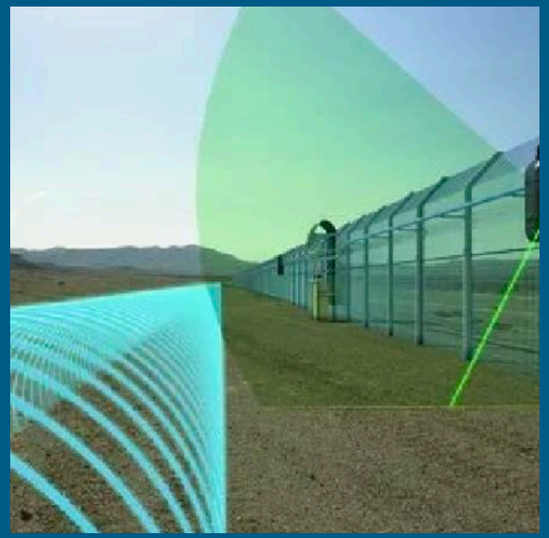
FIBRE INTRUSION DETECTION

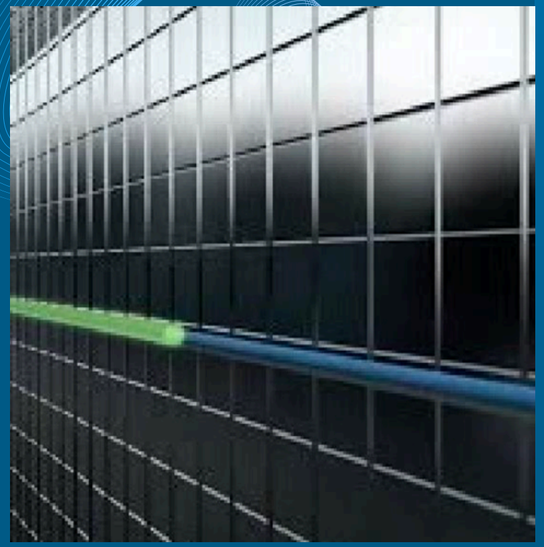


Buried Solution

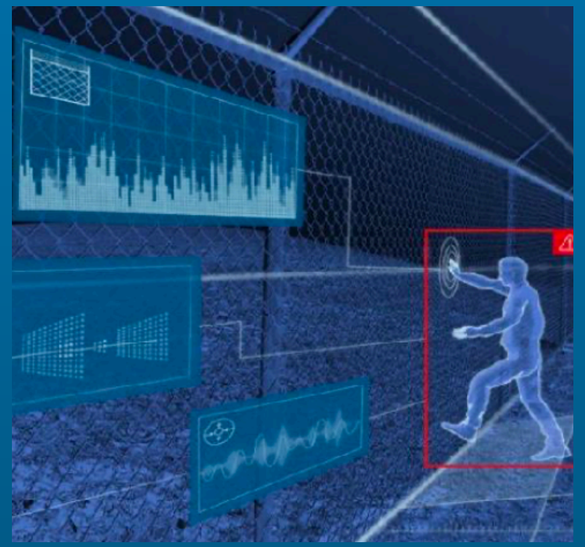


Standard (50M) Detection Zone

Securing high risk installation for Army, Navy and Air Force unit with multiple sensors that include buried sensors or rapidly, temporary deployable system integrated with CCTV . Our system detect intrusion attempts at break-through walls, cut-through attempts on existing property fences and offer advance warning for theft and vandalism



Loop Integrated in Fence



Triggers and Alarms Management

The simple answer to the challenge of perimeter security is a combination of smart fences and barriers, supported by a mix of long range surveillance cameras with other smart cameras (equipped with intelligent video analytics). Our Sensors easily communicate with existing security systems that may be in place cameras, door alarms, etc. The product detects before the real damage occurs.

INNOSENSE
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Remote Fiber Test

- 1st in the market
- 1990 - Started RFTS development & In 1994 - Deployment of 1st System
- 2001, 2007 -Deployment of 2nd, 3rd generation systems
- 2008 -V4.0 a leap in GUI technology: "most user friendly RFTS in the market"
- 2010-V4.2 with superior mapping and OSP documentation features
- Continuous automated surveillance through OTDR trace comparison with Power Monitoring
- Automatic alarming
- Network/GIS documentation
- Distributed system - Server/Clients/RTUs
- Reporting & trend analysis
- Real-time monitoring
- Optical power measurements every 250 msec.



Root cause troubleshooting
Remote Test and Fault Detection
Alert Management System with Location

Service Layer Test
Automated Monitoring
Temperature and strain sensing

INNOSENSE
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Intelligent & Smart Solution

A broad range of information and communications technologies that improve the safety, efficiency, and performance of the transport system.

Main Components

- Automated Fare Collection System
- Automatic Vehicle Management System
- Passenger Information System
- Business Intelligence based solution
- Self Service Kiosks
- Integrated Web and Mobile Platform
- Fully Financial services Integrated with complete payment solution available



Intelligent Transport System

ITS can help reduce congestion, improve mobility, save lives and optimize our existing infrastructure.

INNOSENSE
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Smart City Solution

One Security and Technology System for the city





- Tourism Sites
- Road Surveillance
- Seizure of Pursued People and Vehicles
- Early Detection Methods
- Securing Streets

- Monitoring Traffic Jams
- Smart Weapons Detection
- Facial Recognition with integrated Databases
- Management of Response and Emergency Teams
- Other Uses

INNOSENSE
TECHNOLOGIES (PVT.) LTD.

eGov Platform

ePortal
Public information, Grievance Redressal, Complaints Management

eService Delivery
Electronic Public Services Management for Gov. Departments and authorities

eFacilitation Centers
Provide all Provincial and municipal services using Single Window Concept

eLibrary
Collection of text, visuals, audio, video etc. stored as standardized and customized media formats



eCitizen
Digital Platform enabling citizens, residents and visitors to access egov services

eReporting
Citizen reporting and feedbac
Mobile Application with geolocation and help-center

eArchiving
Paperless gov. solution for interdepartmental communicati
and archiving of documents

eWorkflow
Highly customizable framew
for workflow management related to egov services

Automated IoT Platform

INNOSENSE
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Physical layer – (Data sources connections)

- Fire Alarm
- RFID
- IoT/ M2M systems
- Sensors control
- CCTV & video analytics
- Message from users and citizens
- Cash transactions control
- Security systems
- Object positioning
- Technological equipment

Logical layer – (data processing) & Communicational layer – (data presentation)

IoT Platform

01 Data collection

Integration and receiving the information from data sources

Comprehensive analysis and classification of events

02 Processing

Automated response

Event confirmation

03 Control

Decision support and dispatching

Event and incident management



IOT Platform enables interrelated computing, and digital devices t transfer data over a network witho requiring human-to-human or human-to-computer interaction.

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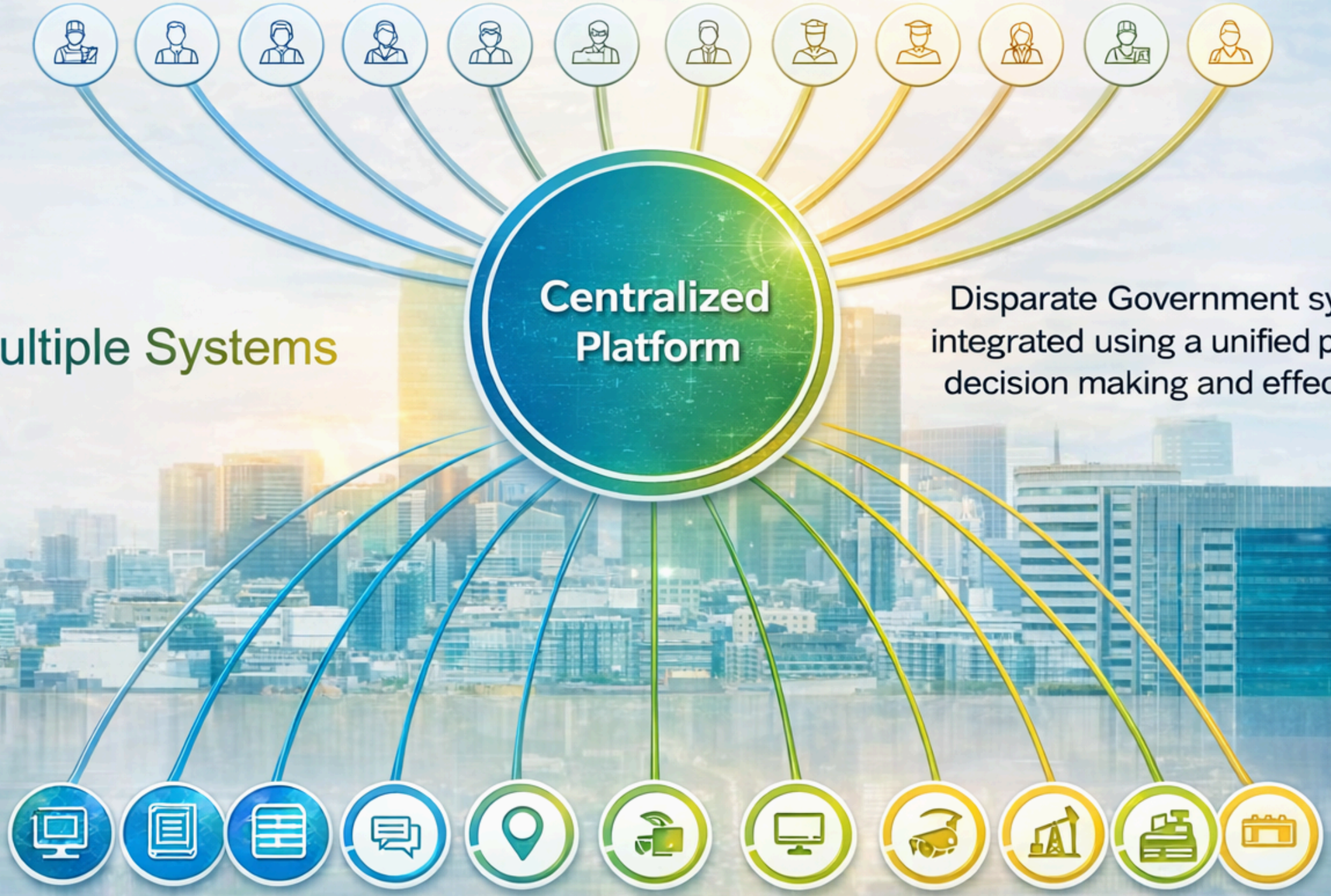
COMMON DIGITAL FRAMEWORK

Enable effective decision making to improve governance



INNOSENSE
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INTELLIGENT Monitoring System



Unique Innovations

Digital cameras detect violations in 99% of cases thanks to the advance fixation technology.

Complete and reliable parking statistics is ensured by means of artificial intelligence, which allows to identify a car even by a part of its body.

Edge Processing low data bandwidth

Functions of Intelligent Monitoring System

- Detecting violations of vehicle parking and stopping rules (configurable);
- Record parking sessions on paid city parking spaces;
- Gather statistics on the use of city parking spaces;
- Monitor condition of road signs and other on-site facilities of the street and road network.

PARKING MOBILE APP—
FIND VACANT PARKING SPOTS AND PAY EASILY

INNOSENSE
TECHNOLOGIES (PVT.) LTD.

APPLE PAY AND GOOGLE PAY

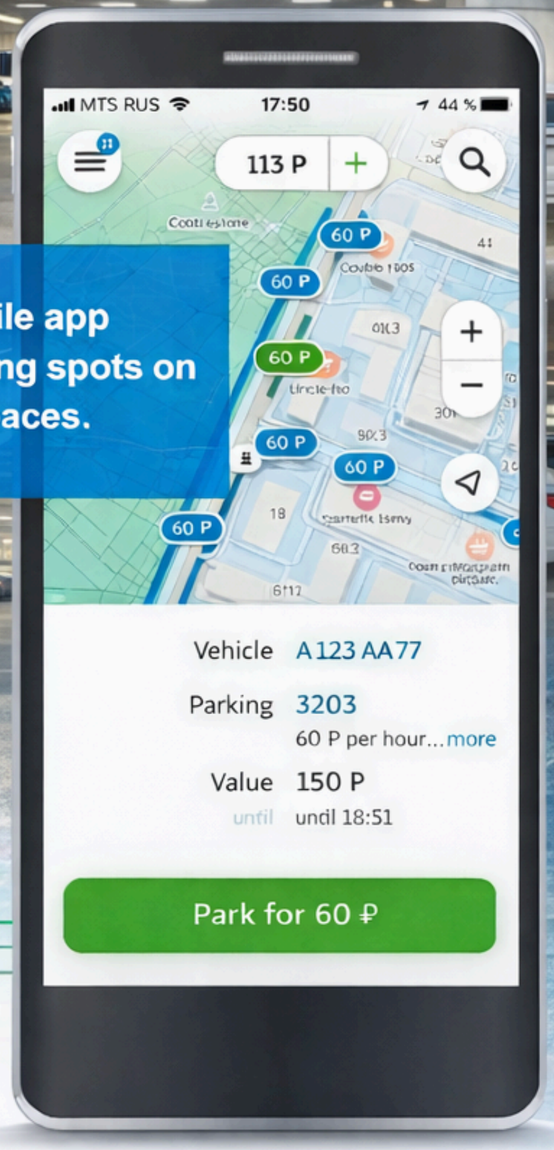
A user pays for parking via popular payment services Apple Pay and Google Pay.

Pay G Pay

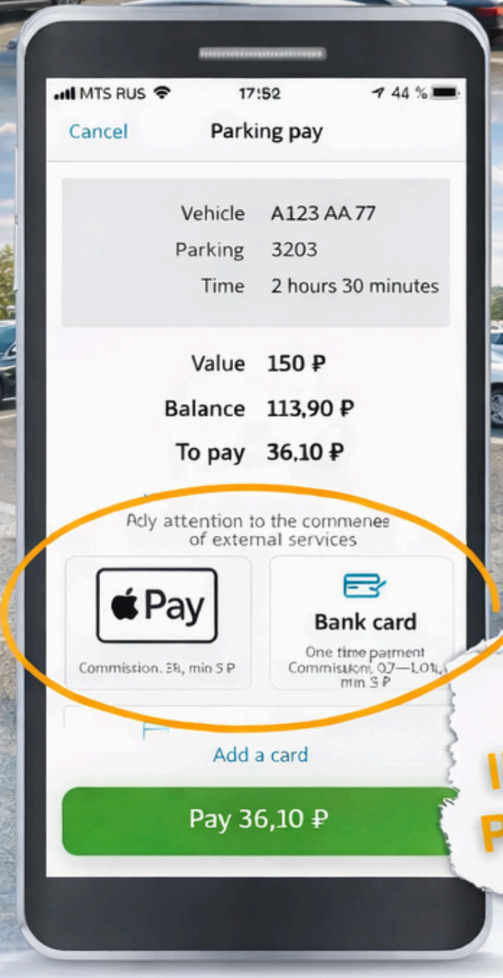
BANK CARD

VISA MasterCard

Smart parking mobile app shows vacant parking spots on paid city parking spaces.







INSTANT PAYMENT

INNOSENSE
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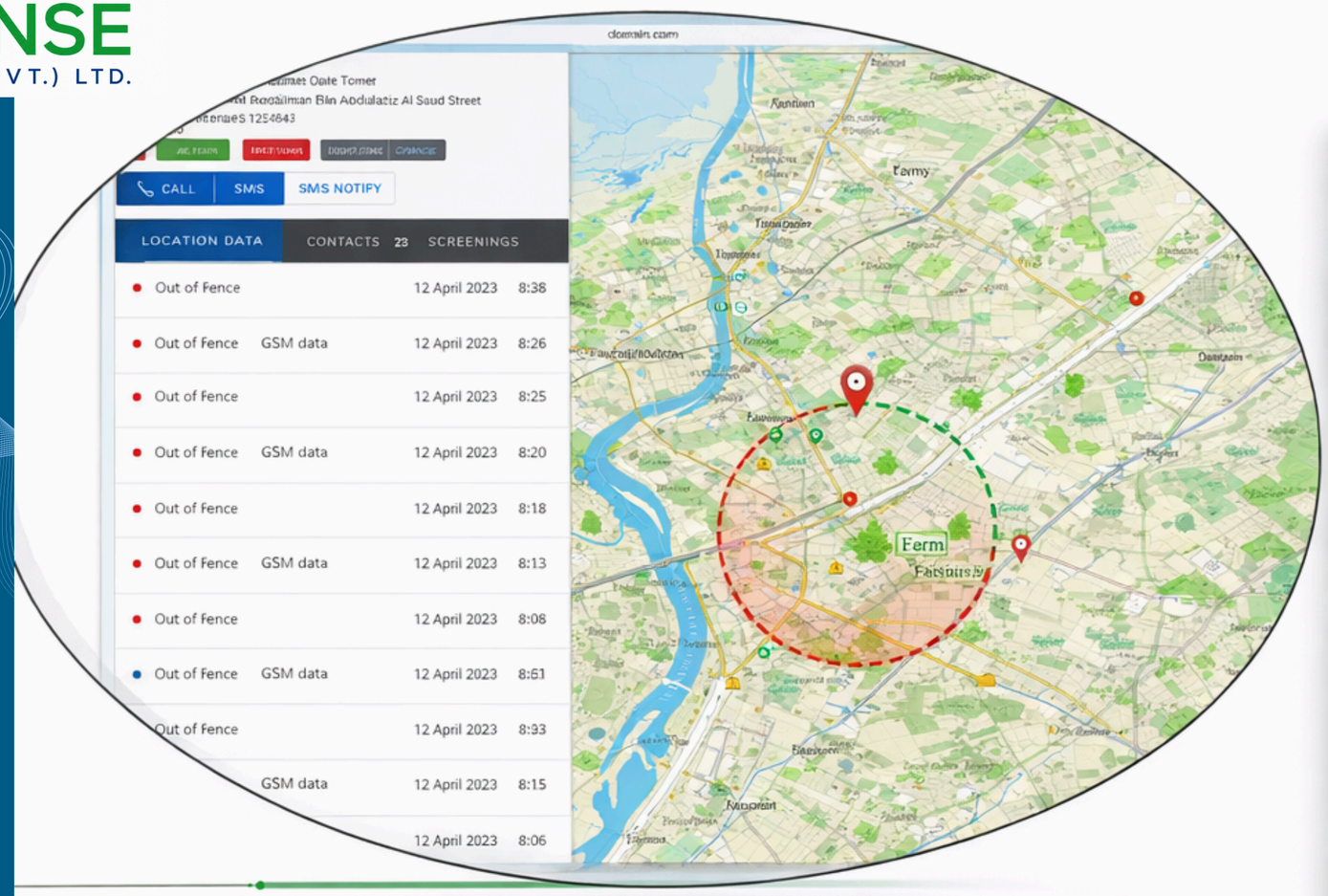
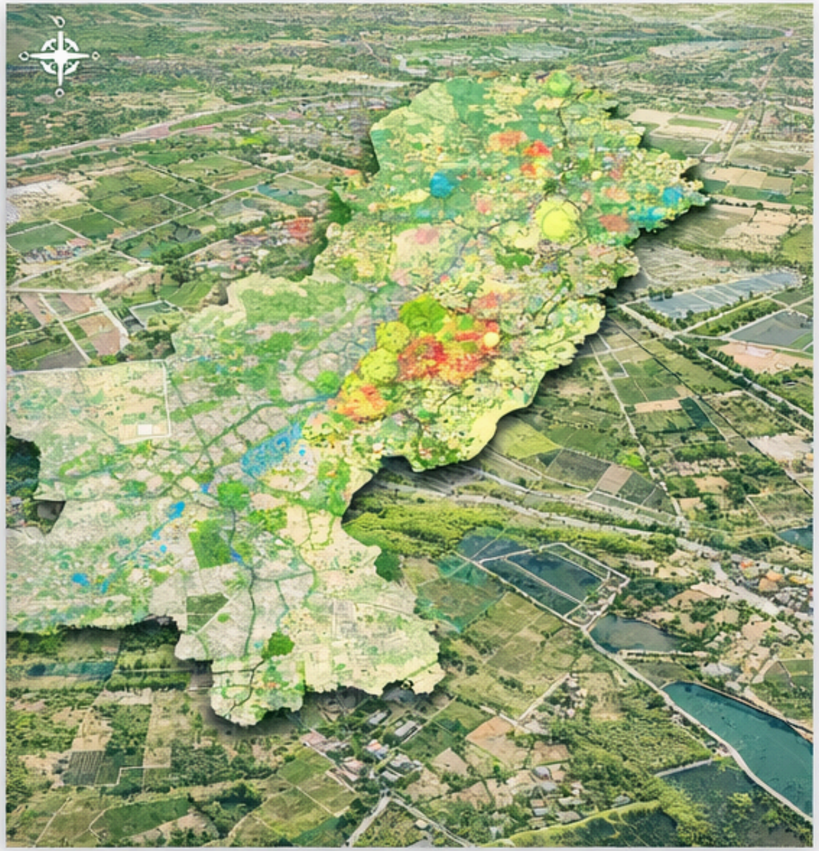
Geo Tagging of roads and buildings





Input data of Geo-Location to identify Roads, Landmarks etc:
- Create Geo-fence in the System to provide Data Visualization improving City Services

e.g. Visualizing Activities Heat Map in Punjab, Pakistan across Farms, Societies and Canal Revamping open area

Smart Energy Management

INNOSENSE
TECHNOLOGIES (PVT.) LTD.

Services → Controls

Lighting
Management of street, facade, festive and other lighting

Traffic
Real-time traffic monitoring

CCTV
Network of urban video cameras

Parking
Parking occupancy monitoring

Fire safety
Real-time fire alert

Waste
Alert on filling garbageontainers

Ecology
Monitoring the environnmental b





Smart Energy Management systems provide Tracking and Monitoring of Energy Consumption Automatically using

- Smart Governance
- Digital Metering
- Energy Efficiency



INNOSENSE
TECHNOLOGIES (PVT.) LTD.

Software Development Services

That Drive Business Outcomes



Whether you need a custom enterprise solution, a scalable SaaS platform, or a modern web or mobile app, INNOSENSE delivers expert software development tailored to your business. From product design to API integration and legacy modernization, we build secure, high-performance applications that drive results. Let's build your vision together.

Expert Mobile App Development for Today's User

- Native iOS App Development
- Native Android App Development
- Cross-Platform App Development

Custom Software Development

INNOSENSE
TECHNOLOGIES (PVT.) LTD.

SECURITY Sirvillance & Agri. Drone (Chinese)



INNOSENSE
TECHNOLOGIES (PVT.) LTD.

Custom Drone
DEFENSE & SECURITY

Engineering the Autonomous Future.

Research and development in unmanned air and ground systems, computer vision and the software that runs them — every system built on demand.

Services Offered

- **UAV PLAT FORMS**
- **GROUND ROB OTICS**
- **VISION & SOF TWARE**
- **TRAINING & SUPPORT**

HOW WE WORK

01 REQUIREMENT
Mission, environment and constraints captured.

02 RESEARCH & DESIGN
Architecture, sensors, compute and airframe.

03 PROTOTYPE
First unit built and bench-tested.

04 TEST & VALIDATE
Flight trials against the agreed requirement.

05 DELIVER & SUPPORT
Handover, training, repair and upgrades.

An R&D company. Everything built on demand.

INNOSENSE is a research and development company engineering intelligent autonomous systems — drones, computer vision and the software that ties them together. We are a small, focused engineering team, and we work that way on purpose: every system we deliver is researched, designed and built for the customer who needs it.

□ BUILT ON DEMAND

■ IN R&D

INNOSENSE
TECHNOLOGIES (PVT.) LTD.

DEFENSE & SECURITY

Six disciplines. One engineering team.

01

Autonomous UAV Platforms

Multirotor, VTOL fixed-wing, FPV and bio-inspired airframes, designed and built to order.

02

Computer Vision Solutions

Detection, tracking and video analytics — onboard the drone, on fixed cameras or in the control room.

03

Management Solutions

Software to plan, run and record operations: fleets, missions, people, maintenance and data.

04

Full-Stack Integration

Computer vision + management software + hardware, delivered and supported as one working system.

05

Operator Training

Simulator-first training for soldiers and civil officers on our custom SIM-01 controller and FPV.Skydive.

06

Custom Drone Repair

Diagnostics, rebuilds, tuning and upgrades for custom and non-standard drones.

We cover the full chain — from the airframe and the sensor, through the AI that interprets what it sees, to the software and the people who run the operation

CORE TECHNOLOGIES

Artificial intelligence

Navigation & localisation

Autonomous systems

Sensing & perception

Robotics & control

System integration

INNOSENSE
TECHNOLOGIES (PVT.) LTD.

DEFENSE & SECURITY

Computer Vision Solutions

Turning camera feeds into decisions. We build vision systems that detect, track and report — running onboard a drone, on fixed cameras, or on a server in your control room

Object detection

People, vehicles, vessels and custom classes trained for your environment.

Track & trace

Multi-object tracking that keeps identity across frames and camera views.

Anomaly detection

Flags intrusions, unusual movement and scene changes automatically.

Edge AI deployment

Models optimised for compact onboard AI compute — low latency, no link required.

Day, thermal & night

Pipelines for daylight, thermal and low-light sensors.

Visual guidance

Camera-based target following and autonomous pursuit (in R&D).

Video analytics & alerts

Events, counts, snapshots and alerts pushed straight to operators.

Custom model training

Data collection, labelling and training on your own footage.

DEPLOY ON
Drones & docks

DEPLOY ON
Fixed & perimeter cameras

DEPLOY ON
Control-room servers

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TECHNOLOGIES (PVT.) LTD.

DEFENSE & SECURITY

1. Burak Sentinel

□ BUILT ON DEMAND



AUTONOMOUS DRONE-IN-A-BOX SYSTEM

Autonomous persistent surveillance and rapid-response deployment system, engineered for 24/7 continuous operation and seamless integration with existing infrastructure.

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DEFENSE & SECURITY

1. Burak Sentinel

☐ BUILT ON DEMAND

AUTONOMOUS DRONE-IN-A-BOX SYSTEM

SPECIFICATIONS

Docking **Auto docking**	AI features **Anomaly detection, track & trace**
Flight endurance **Up to 45 min**	Communication range **Up to 30 km / unlimited via 4G**
Navigation **Waypoint navigation**	Payload options **Daylight / thermal / night-vision camera**
System readiness **24/7 operation**	Maximum altitude **Up to 3,000 m**
Cruise speed **Up to 70 km/h**	Autonomy **Auto launch & auto land**

USE CASES

- Perimeter security
- Routine inspections
- Area surveillance
- Critical infrastructure monitoring

Propulsion: electric. Integrates with existing infrastructure. Configured per site on order.

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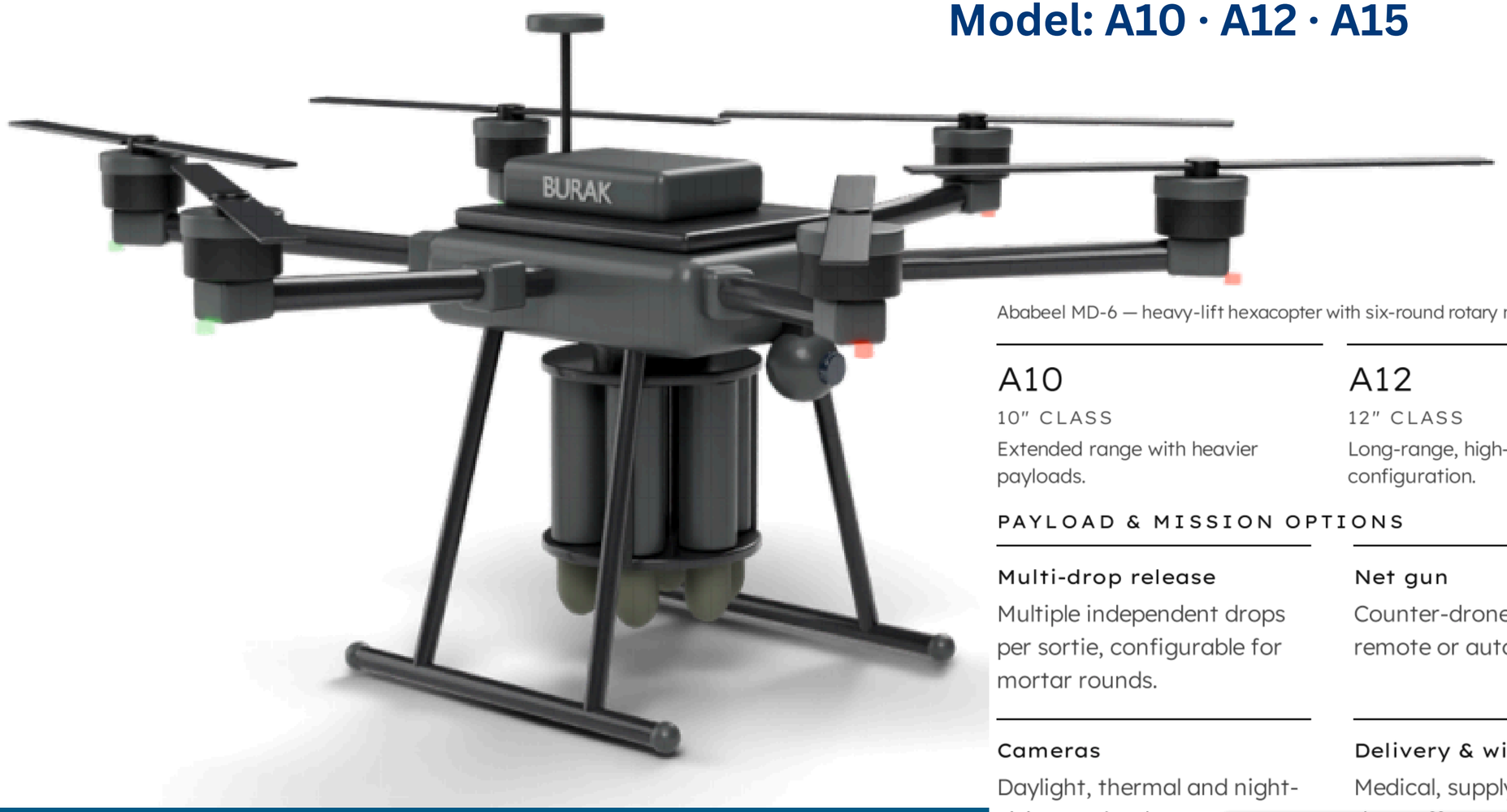
2. Custom UAV Designs

BUILT ON DEMAND

Airframes designed around your mission. We size the frame, motors, battery, control link and payload to your requirement — from 10-inch long-range frames to heavy lift multirotors



Model: A10 · A12 · A15

Ababeel MD-6 — heavy-lift hexacopter with six-round rotary multi-drop magazine.

A10	A12	A15
10″ CLASS	12″ CLASS	15″ CLASS
Extended range with heavier payloads.	Long-range, high-payload configuration.	Heavy-lift class for the largest payloads.

PAYLOAD & MISSION OPTIONS

Multi-drop release
Multiple independent drops per sortie, configurable for mortar rounds.

Net gun
Counter-drone capture, remote or autonomous.

Loudspeaker
Public address for crowd control and rescue.

Cameras
Daylight, thermal and night-vision payloads.

Delivery & winch
Medical, supply and tethered drop-off.

Your payload
Any custom mechanism designed and integrated.

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3. Stingray

IN R&D

VTOL FIXED-WING ISR · R&D PROGRAMME

Extended-range ISR platform combining the take-off flexibility of VTOL with the efficiency of fixed-wing flight.

DESIGN TARGETS · SUBJECT TO CHANGE

Flight endurance
Up to 3 h

Range
Up to 300–350 km

Propulsion
Electric

Cruise speed
70–90 km/h

Autonomy
Auto launch & auto land

Navigation
Waypoint navigation

Maximum altitude
Up to 3,000 m

Payload options
Daylight / thermal camera; laser rangefinder and payload dropper optional

AI features
Integrates with existing infrastructure, real-time data

USE CASES

- Wide-area terrain scanning
- Deep-zone reconnaissance
- Convoy aerial escort
- Maritime & coastal monitoring



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4. Raptor R4

☐ BUILT ON DEMAND



PRECISION PAYLOAD MULTIROTOR

Autonomous aerial platform for precision payload deployment in dynamic environments
— controlled, high-accuracy release with real-time trajectory intelligence and environmental compensation

SPECIFICATIONS

Flight endurance
Up to 3 h

Range
Up to 300–350 km

Propulsion
Electric

Cruise speed
70–90 km/h

Autonomy
Auto launch & auto land

Navigation
Waypoint navigation

Maximum altitude
Up to 3,000 m

Payload options
Daylight / thermal camera; laser rangefinder and payload dropper optional

AI features
Integrates with existing infrastructure, real-time data

USE CASES

- Precision payload deployment
- Tactical support operations
- Elevated drop missions
- Coordinated strike support

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5. Dabur

IN R&D

AI INTERCEPTOR · R&D PROGRAMME

An autonomous interceptor for high-speed neutralisation of aerial threats, now in active research and development. We are developing two guidance approaches in parallel.



Radar-based guidance — IN R&D

- Radar cueing to detect and track aerial threats at range
- Works in poor visibility, at night and in bad weather
- Interceptor launched and steered on radar track data
- Designed to link with ground radar and command systems

Vision-based guidance — IN R&D

- Onboard camera and edge AI detect and lock the target
- Autonomous visual pursuit for the final approach
- Passive sensing — no emissions from the interceptor
- Compact, cost-efficient onboard architecture

DESIGN TARGETS · SUBJECT TO CHANGE

Flight endurance **Up to 25 min**	Communication range **Up to 8 km**
Propulsion **Electric**	Deployment mode **Pursuit & interception**
Payload capacity **Up to 800 g**	Maximum speed **Up to 400 km/h**

INTENDED USE

- High-speed aerial interception
- Kamikaze drone neutralisation
- Airspace denial operations
- Coordinated multi-threat response

Evaluation and co-development partnerships are welcome while the programme is in R&D.

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AI INTERCEPTOR · R&D PROGRAMME

6. Kamikaze FPV · A-Series A5 · A7 · A10 · A12 · A15

□ BUILT ON DEMAND

SPECIFICATIONS

Platform FPV multirotor	Frame Carbon fibre
Configurations 5″ / 7″ / 10″ / 12″ / 15″	Propulsion Electric
Flight endurance Up to 30 min	Navigation Pilot-guided / autonomous
AI Onboard customisable edge-AI model	Maximum altitude Up to 3,000 m
Configuration Modular & scalable	

USE CASES

- Precision aerial engagement
- Close- to long-range operations
- Rapid tactical deployment
- Urban, confined and open areas
- High-payload & autonomous missions

A modular FPV platform family for agile, precision aerial operations — scalable range, endurance and payload capacity, with an onboard, customisable AI edge-based autonomous model.



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7. Trainer Drone

RESILIENT PILOT-TRAINING PLATFORM



□ BUILT ON DEMAND

A low-cost, resilient training drone engineered for skill development, tactical simulation and controlled pilot instruction — the real-aircraft stage of our operator training programme.

SPECIFICATIONS

Structure **Impact-resistant housing**	Propulsion **Electric**
Maximum altitude **Up to 100 m**	Protection **Full propeller guard system**

USE CASES

- Pilot skill development
- Tactical manoeuvre training
- Indoor flight drills
- Operator certification programmes
- Simulation-based exercises

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8. Flapping Bird

☐ BUILT ON DEMAND

LOW-VISIBILITY BIO-INSPIRED SURVEILLANCE · R&D PROGRAMME



DESIGN TARGETS · SUBJECT TO CHANGE

Flight endurance
Up to 20 min

Communication range
Up to 5 km

Propulsion
Electric

Payload options
Daylight / night-vision camera

Maximum altitude
Up to 200 m

Maximum speed
Up to 40 km/h

AI features
Vehicle / person anomaly detection, track & trace; custom features

USE CASES

- Covert reconnaissance
- Urban intelligence gathering
- Low-visibility surveillance
- Sensitive-zone monitoring
- Perimeter observation

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□ BUILT ON DEMAND

9. Ghazi UGV

UNMANNED GROUND VEHICLE · GHAZI-4 AND GHAZI-6



Ghazi-4 multi-mission unmanned ground vehicle.

CORE SPECIFICATIONS

Drive All-electric, independent motor per wheel	Configurations 4×4 or 6×6 wheeled	Frame Modular welded-steel chassis, sealed electronics bays
Control Remote via Burak controllers, or autonomous	Battery endurance Up to 6–8 h, hot-swappable packs	Range per charge Up to 25–35 km

An all-electric unmanned ground vehicle built on a modular chassis. Available in 4×4 and 6×6 configurations and controlled remotely or autonomously, it carries whatever mission module the task requires — from logistics to armed and counter-drone roles.

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BUILT ON DEMAND

10. *UGV Configurations & Mission Modules*



Ghazi-6 heavy-payload unmanned ground vehicle.

SPECIFICATION	GHAZI-4	GHAZI-6
Wheel configuration	4×4	6×6
Battery endurance	Up to 6 h	Up to 8 h
Range per charge	Up to 25 km	Up to 35 km
Maximum speed	Up to 20 km/h	Up to 18 km/h
Payload capacity	Up to 300 kg	Up to 600 kg
Control link	Up to 5 km LOS; mesh / 4G extension	Up to 5 km LOS; mesh / 4G extension
Navigation	Remote, waypoint, follow-me	Remote, waypoint, follow-me

MISSION MODULES

Remote weapon station
Gun mount operated by remote control or in autonomous mode.

Casualty evacuation
Stretcher kit for recovering personnel under cover.

MISSION MODULES

Net launcher
Counter-drone and capture net gun — remote or autonomous.

ISR mast
Day / thermal cameras on a raised mast for observation.

Logistics & resupply
Cargo deck for ammunition, water, equipment and tools.

Your module
Any custom payload or sensor integrated on request.

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11. Control Systems

□ BUILT ON DEMAND



Every Burak platform is flown or driven from controllers we design ourselves. We also build custom controllers to order for your own drones and ground vehicles.

Burak SIM-01 — designed and built in-house.

CUSTOM DRONE CONTROLLERS

- Ergonomics, stick layout and button mapping to your needs
- Built-in display and status lighting
- Radio link and protocol matched to your aircraft
- Rugged housing for field use
- Your branding on the shell

OUR CONTROLLERS

- Burak SIM-01 — USB training controller for FPV.Skydive
- Field controllers for Burak UAVs and UGVs
- One controller family across platforms — train once, fly all
- Ground control stations for autonomous missions

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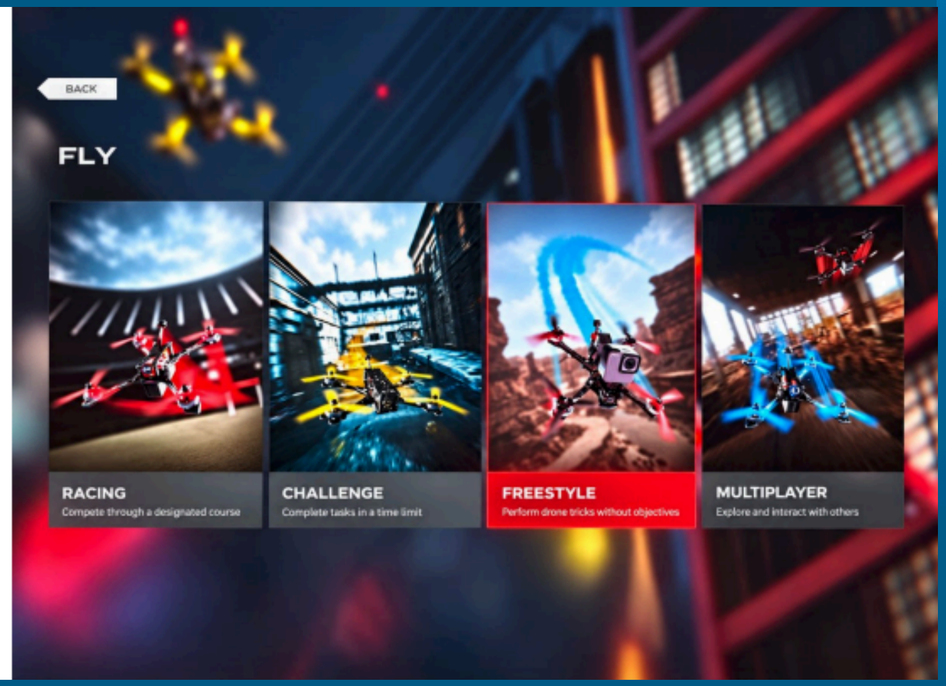
12. Drone Operator Training

BUILT ON DEMAND





Simulator-first training on our own hardware. Trainees build stick skill, orientation and mission discipline on the Burak SIM-01 controller and the FPV.Skydive simulator — before they touch an operational aircraft. A crash in the simulator costs a reset, not a repair.

FOR SOLDIERS, CIVIL OFFICERS & EMERGENCY SERVICES

FOUR SIMULATOR MODES

Flight School
Fundamentals, terminology and a graded learning progression.

Challenge
Defined objectives and repeated exercises under task discipline.

Course / Track
Gate navigation, trajectory control and spatial awareness.

Free Flight
Unrestricted practice for confidence and control familiarisation.

WHY SIMULATOR-FIRST

Safe — mistakes risk no aircraft

Repeatable — fly it until it improves

Cost-efficient — saves flight hours

Standardised — same fundamentals

Measurable — assessed before field

Scalable — many trainees at once

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T R A I NI NG

Simulator first.
Aircraft second.
Operations third.



SIMULATION — SIM-01 + FPV.SKYDIVE

REAL AIRCRAFT — FIELD TRAINING

01	02	03	04	05	06
Control orientation	**Basic simulation**	**Precision training**	**Advanced simulation**	**Real-drone conversion**	**Mission training**
Throttle, yaw, pitch, roll, controller layout	Take-off, hover, turns, landing	Gates, target positioning, approach	Timed tasks, complex routes, recovery	GPS modes, RTH, camera, failsafes	Search, survey, inspection, emergency scenarios

Instructor-recorded metrics: completion time, missed gates, landing accuracy, control smoothness, interventions and orientation errors.

TRAINING REQUIREMENTS · INDICATIVE FACILITY

Simulator lab	6–12 stations, each with a SIM-01 controller and a PC running FPV.Skydive; instructor computer and briefing screen
Classroom & briefing	Theory, safety and mission planning
Indoor netted flight area	Protective net, marked take-off pads, hover and orientation drills
Technical & maintenance	Benches for inspection and preparation
Battery & charging	Charging bay and fire-safe battery store
Instructor control	Monitoring and assessment station
Outdoor training ground	Basic flight, precision landing, obstacle course, building mock-up and scenario zones

WE PROVIDE

SIM-01 controllers, FPV.Skydive setup, training syllabus, instructors, trainer drones and trainee assessment.

WE NEED FROM YOU

Number of trainees, training venue, schedule, and the aircraft your teams will operate after conversion.

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Custom Drone Repair & Maintenance

Fault diagnosis

Crash assessment and component-level fault finding.

Frame & arm rebuild

Carbon, 3D-printed and custom-fabricated structural parts.

Power system

Motor, ESC, wiring and power distribution replacement.

Flight controller

Setup, firmware, calibration and PID tuning.

Camera & payload

Camera, gimbal and payload mechanism repair.

Links & navigation

Radio, video link and GPS troubleshooting.

Battery health

Inspection, testing and safe-replacement advice.

Upgrades & retrofits

Add AI compute, new sensors or autonomy to existing airframes.

We repair custom and non-standard drones — including builds other workshops won't touch — as well as our own platforms. Because we design and build drones ourselves, we diagnose at component level and rebuild to spec

INNOSENSE
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THANK YOU

CONNECTING FOR A BRIGHTER FUTURE

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