



WE Engineer.
From Challenge to Progress.

TRAFFIC MANAGEMENT SYSTEMS

iesysgroup.com



From Challenge to Progress. **WE Engineer.**



Who we are



From Challenge to Progress. WE Engineer. We provide complete engineering solutions for process automation in **transport infrastructure and the industrial sector.**

Progress begins where challenges arise. We see every project as an opportunity to **rethink, refine and reimagine** how technology can work smarter, safer and more efficiently.

We are a turnkey solutions provider for **complex traffic infrastructure projects.** We design, integrate and optimize **Intelligent Traffic Systems (ITS)** that meet the highest international standards.

Our aim is to **help public authorities and road operators** transform traffic management, monitoring and control through reliable, energy-efficient technologies tailored for highways, expressways, national roads and key transit corridors.

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Integrated Solutions for Modern Mobility

In today’s fast-moving world, road networks must be smarter, safer and more efficient to handle growing traffic volumes and rising mobility demands. Intelligent, connected infrastructure is no longer optional—it’s essential for safety, sustainability and performance.

At IESYS, we transform this need into action with **advanced traffic management solutions** that integrate sensors, enforcement systems and dynamic control equipment into one cohesive platform.

IESYS delivers **end-to-end traffic management systems** that monitor, analyze and control road networks in real time. From **national highways to urban intersections**, we enhance safety, improve traffic flow and enable data-driven decision-making. Designed for scalability and reliability, **our systems support sustainable mobility and help authorities build the foundation for the roads of tomorrow.**



Advanced
traffic
solutions



Smart Traffic Infrastructure

- Traffic data & statistics collection
- Law-enforcement solutions
- Video surveillance & ANPR
- Centralized traffic management
- Traffic ecosystem

In-house developed products & technologies

- Weigh-in-motion
- Speed law enforcement
- Integrated traffic management platform





How We Work

WE engineer.

From planning to performance

Assessment & Feasibility

- Comprehensive system evaluation, objective definition and ROI analysis to ensure project viability and strategic impact.

Process Optimization

- Data-driven insights, real-time traffic monitoring and workflow improvements to enhance network efficiency and safety.

Technical Design

- Development of control architecture, hardware selection, functional drawings and detailed technical specifications.

Manufacturing & Testing

- Precision panel assembly, software development and rigorous system testing to ensure reliability and compliance.

Commissioning & Support

- Seamless installation, system integration, operator training and ongoing maintenance and technical assistance for sustained operational performance.

Intelligent Traffic Control for Safer, Smoother Journeys



Traffic Data & Statistics Collection

- Advanced Video-Based Traffic Data Collection**
Continuous, precise monitoring of vehicle counts, classification, speeds, dimensions and traffic density.
- Automatic Incident Detection**
Using data from video cameras and road sensors, intelligent algorithms quickly detect incidents such as stopped vehicles, wrong-way driving, pedestrians on the roadway, lost loads and hazardous conditions like smoke, fire, or fog.
- Weather Data**
Incorporates live meteorological data to improve traffic control accuracy and enhance safety in all conditions.



Advanced Video-Based Traffic Data Collection



Weather Data



Speed Enforcement Systems



Vignette Verification



Weigh-in-motion



Vehicle size measurement



Law-Enforcement Solutions

- Vignette Verification**
High-precision video capture with time-stamped images and ANPR enable automatic vehicle identification and verification of road usage fee status for enforcement purposes.
- Speed Enforcement Systems**
Fixed radar units precisely measure vehicle speed, capturing photographic and video evidence alongside license plates to detect speeding violations and enhance road safety.
- Weigh-in-motion**
Reliable detection and weighing of moving vehicles.
- Vehicle size measurement**
Uses non-intrusive sensors to detect and classify vehicle dimensions, improving traffic profiling and flow management.



Dispatch & Monitoring Centers

Video Surveillance

Video Cameras

High-definition video surveillance systems provide continuous traffic monitoring, enhancing safety, incident detection and data collection through real-time visual analysis.

Dispatch & Monitoring Centers

Centralized command hubs equipped with advanced software and communication tools enable real-time traffic supervision, incident response coordination and data-driven decision-making.



Video Cameras



Traffics



Communications Systems Design

Centralized Traffic Management

Communications Systems Design

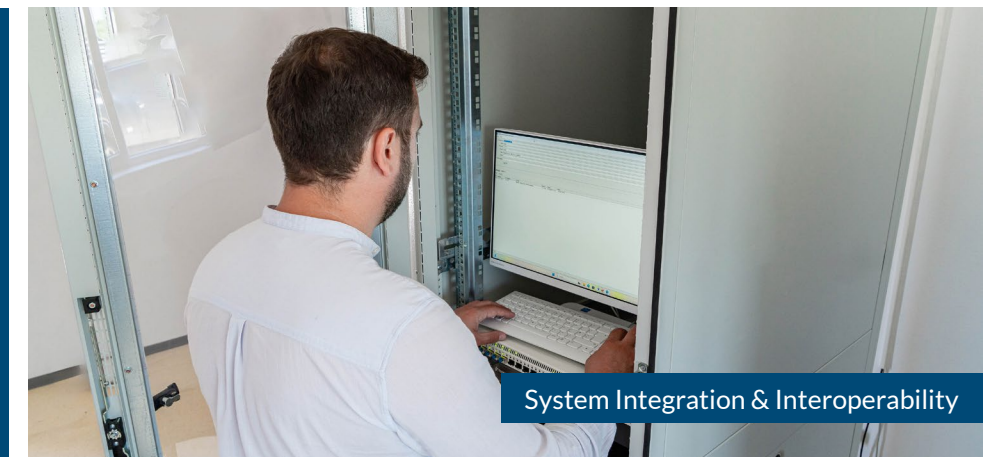
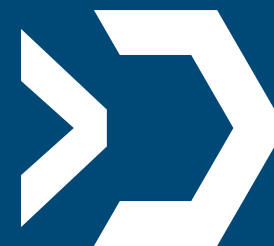
Engineering robust communication networks, including advanced wireless technologies, for efficient and secure data transfer.

Traffic

An all-in-one platform that integrates sensors, enforcement devices and traffic control equipment, enabling authorities to save time, reduce costs and make data-driven decisions.

System Integration & Interoperability

Coordinating and integrating diverse ITS components into a unified, fully interoperable operational environment.



System Integration & Interoperability



Real-Time Traffic Monitoring & Visualization



Traffic Announcements

Traffic Ecosystem

Real-Time Traffic Monitoring & Visualization

Live traffic data from intelligent monitoring systems is published, ensuring transparency and supporting efficient, data-driven mobility for all participants.

Traffic Announcements

Real-time alerts and updates keep drivers informed of road conditions, incidents and important traffic events, helping ensure safety and smooth travel.

WIM

Advanced weighing and monitoring systems track vehicle weights in real time, ensuring road safety, regulatory compliance and infrastructure protection.



WIM

Future-ready infrastructure





Operational Capabilities and Technical Performance

Smarter roads, safer traffic

Our Traffic Management Systems meet the increasing demands of modern urban mobility, ensuring smooth flow, intelligent control and a safer experience for every road user.

From intersections to highways, traffic moves efficiently and securely, helping cities operate safely, reliably and at their peak performance.

Processing Capacity

Processing capacity optimized for any urban environment — from small municipalities to large metropolitan areas.

Our modular systems scale effortlessly with traffic volume, adapt to infrastructure constraints and maintain peak performance even during rush hours, ensuring efficiency, continuity and reliable traffic flow across all networks.

Accuracy and Reliability

Monitoring and control systems that exceed standard requirements, reducing congestion, minimizing incidents and improving response times.

Real-time data analytics and intelligent algorithms deliver consistent performance, enable faster decision-making and ensure full visibility and traceability across the entire traffic network.

Operational Flexibility

Modular design allows rapid adaptation to changing traffic patterns, special events and evolving urban mobility demands.

Our systems are built to scale and reconfigure with minimal disruption, supporting seasonal fluctuations, infrastructure upgrades and dynamic traffic management strategies while maintaining optimal performance and safety.

Benefits



Operational Excellence Highlights

- End-to-end traffic automation from detection to control and reporting
- Fast, secure collection and processing of traffic data at any scale, enabling real-time analytics that reduce errors, optimize resources and enhance ITS performance
- Reduced congestion, response times and human error
- Seamless integration with urban mobility platforms, enforcement systems and SCADA
- Lower operational costs through energy-efficient and adaptive infrastructure
- Full compliance with EU directives and smart mobility standards
- Scalable architectures ready for future traffic growth and multimodal expansion
- Improved coordination across agencies through centralized and interoperable systems



Smart Engineering & Scalable Performance

IESYS delivers intelligent traffic management solutions engineered for robust performance, adaptability and future growth. Our systems combine precision technology with flexible design to ensure smooth, reliable traffic operations across diverse urban and highway environments.

- Modular & Adaptable Architecture - Designed for growth, easily adapting to expanding infrastructure, evolving regulations and smart city technologies.
- Energy-Efficient & Cost-Effective - Automation and data analytics reduce energy use, optimize maintenance and lower total cost of ownership.
- Comprehensive Security & Compliance - Advanced cybersecurity and full compliance with national and international standards ensure safe, reliable operations.
- Integrated & Future-Ready - Smooth integration with existing infrastructure, enabling centralized control, real-time data exchange and multi-agency coordination.
- Real-Time Visibility & Control - Centralized platforms and intelligent monitoring deliver operators immediate oversight and rapid response capabilities.





Sustainability & Innovation for Smart Mobility

IESYS supports the transition to greener, more efficient and resilient urban mobility by delivering innovative solutions that enable sustainable growth and enhanced system performance through optimized traffic control, energy-efficient infrastructure and intelligent data-driven decision-making.

- Low-energy, eco-efficient system design tailored for traffic infrastructure
- Resource optimization via automation
- Predictive maintenance to reduce waste and extend equipment lifespan
- Modular architecture that eliminates overengineering
- ESG (Environmental, Social and Governance) compliance and support for decarbonization goals

End-to-End Professional Services

From initial concept through deployment and continuous support, IESYS delivers comprehensive lifecycle engineering and services tailored to your traffic management needs.

WE Engineer.

- Custom technical design and system architecture aligned with infrastructure and operational goals
- Turnkey delivery with installation, integration and commissioning
- Tailored software development for traffic specific functionalities
- Rigorous testing and validation to ensure reliability and performance
- Technical training for technical and operations teams
- Ongoing maintenance and technical support for sustained system efficiency
- System upgrades and retrofits for evolving infrastructure requirements



Why partner with us

Global expertise

Proven track record across diverse national and international engineering projects, demonstrating consistent excellence in execution, innovation and long-term client satisfaction.

Tailored solutions

Flexibility to match each client's unique operational needs, adapting our engineering solutions, resources and processes to ensure efficiency, reliability and long-term performance in every project.

Technological agility

Seamless cross-platform integration for smooth process control needs, enabling unified data flow, real-time monitoring and efficient coordination across systems, platforms and industrial environments.

Full-service support

From consulting to continuous maintenance, ensuring seamless execution, optimized performance and long-term reliability through expert engineering, proactive monitoring and assistance.

Dedicated team

Engineers and technicians committed to innovation, combining technical excellence and forward-thinking solutions to deliver reliable performance and continuous improvement across every project.

Commitment to excellence

Delivering beyond expectations through precision engineering, continuous improvement and a results-driven mindset — ensuring long-term success, lasting value and impact for every client.





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