

CASE STUDY: ZAPORIZHZHIA



Transforming Safety and Security in Zaporizhzhia with **VEZHA** Solutions

Client: Zaporizhzhia Situation Center

Location: Zaporizhzhia, Ukraine

Areas: Government, City Safety, Police, Violations, Monitoring Rooms

IncoreSoft, a leading provider of smart city solutions, successfully implemented its **VEZHA** product suite in the Zaporizhzhia Situation Center, revolutionizing the way the city monitors and manages its urban environment. With a focus on addressing the pain points faced by the center, IncoreSoft's **VEZHA** products provided comprehensive solutions that greatly enhanced the center's capabilities.

CHALLENGES

Lack of Traffic Calculation System: The absence of a traffic calculation system made it difficult to track vehicles by type and number of people, hampering effective traffic management and analysis.

Limited Monitoring and Reporting: The center lacked systems for real-time traffic calculation, object detection, tracking parking violations, and capturing road violations. Additionally, there was a lack of comprehensive reports to aid internal staff in their operations.

Insufficient Security Measures: The absence of face recognition systems and the inability to track criminals and dangerous individuals moving around the city posed a significant security risk.

Inefficient Operations and Attendance Control: The center lacked a worker's attendance control system, hindering efficient management and reporting of staff presence.

THE SOLUTION

To address the challenges faced by the Zaporizhzhia Situation Center, **IncoreSoft** implemented multiple **VEZHA** products, each offering specific advantages and functionalities:



VEZHA Traffic Analytics: Traffic Analytics module enabled accurate transport calculations by type, providing comprehensive statistics on vehicle movement across the city. The Situation Center could generate statistical reports on traffic, facilitating effective traffic analysis and management.

VEZHA Object Detection: The module has proven invaluable in capturing and identifying criminal vehicles and parking violations throughout the city. By leveraging intelligent event analysis, this solution has empowered the Situation Center to proactively detect violators, prevent crimes, and generate statistical reports for effective control of parking violations.

VEZHA Face Recognition: Face Recognition module played a pivotal role in identifying dangerous individuals and preventing crimes within the city. The Situation Center could generate statistical reports, analyze events, and separate offenders based on pre-defined lists, significantly enhancing security measures.

VEZHA LPR: The LPR module enabled the detection and recognition of license plates of criminal vehicles. Creating lists of license plate numbers allowed for tracking and alerting authorities about the movement of suspects. It also provided detailed trajectory and direction analysis, aiding in the identification of offenders and effectively preventing crimes.

VEZHA Crowd Detection: With the module, the center successfully captured and analyzed crowds, allowing for immediate notifications about crowd situations and locations. This enhanced crowd control and contributed to the prevention of criminal activities.

THE RESULTS AND IMPACT:

Enhanced Traffic Management: The implementation of **VEZHA** Traffic Analytics enabled the center to identify heavily congested roads and streets, leading to better traffic management in the city.

Improved Security Measures: The integration of **VEZHA** Object Detection, Face Recognition, and LPR modules significantly strengthened security measures within Zaporizhzhia. The center successfully solved over 800 parking violations and crimes, preventing over 1,000 additional crimes.

Efficient Operations and Attendance Control: The worker's attendance control system implemented by **IncoreSoft** streamlined operations, ensuring accurate attendance reporting and management.



Comprehensive Reporting: The **VEZHA** products provided the center with detailed statistical reports, empowering the internal staff to make data-driven decisions and improving overall operational efficiency.

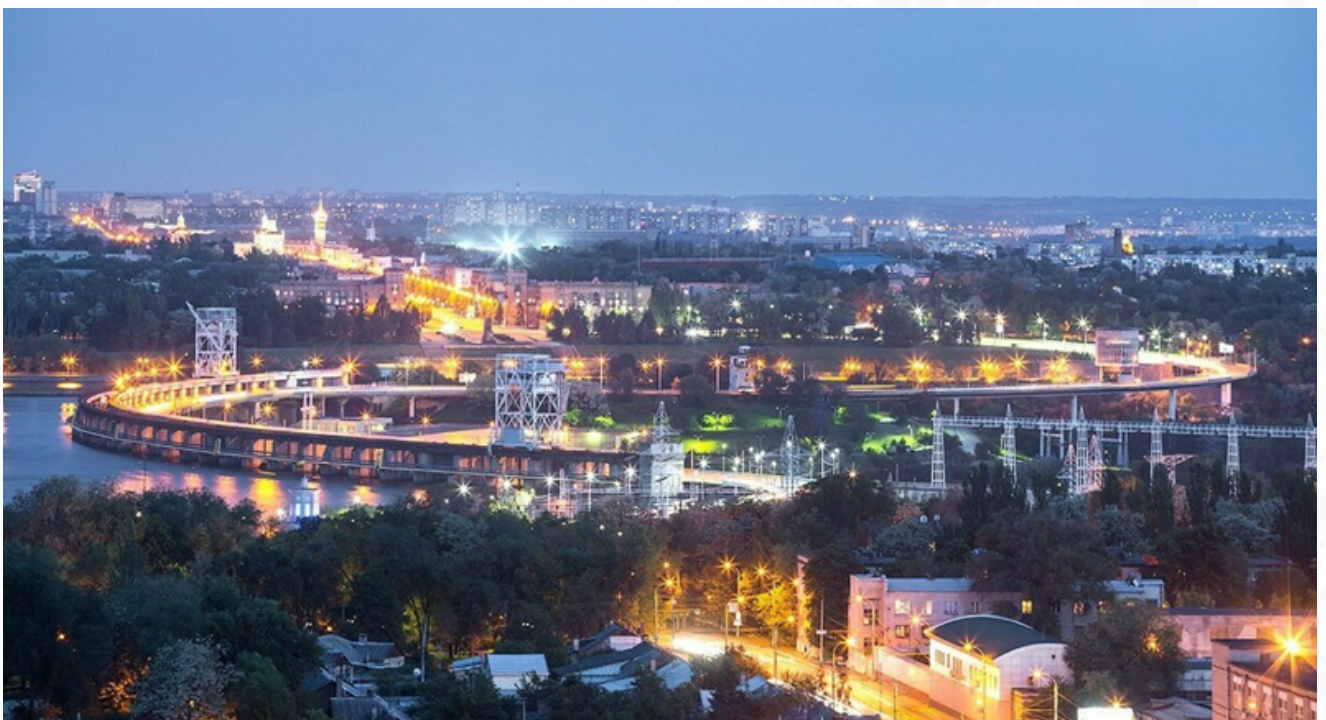
Scalability and Future Expansion: With the successful implementation of the **VEZHA** product suite, the Zaporizhzhia Situation Center now has a scalable and future-proof solution in place. The modular nature of **VEZHA** allows for easy expansion and integration of additional functionalities as needed, ensuring that the center can adapt to evolving requirements and advancements in technology.



Real-Time Monitoring and Alerts: The **VEZHA** products provide real-time monitoring capabilities, enabling the center to receive immediate alerts and notifications about critical events, violations, and potential security threats. This ensures quick response times and proactive measures to address issues promptly.

Collaboration and Data Sharing: IncoreSoft's **VEZHA** products facilitate seamless collaboration and data sharing among different departments and agencies involved in city management and safety. The Situation Center can easily share information with law enforcement, traffic authorities, and other relevant stakeholders, fostering better coordination and more effective decision-making.

Public Safety and Citizen Engagement: The implementation of **VEZHA** products has improved public safety and citizen engagement within Zaporizhzhia. By enhancing traffic management, reducing crime rates, and providing a safer urban environment, the center has gained the trust and satisfaction of the residents.



Cost Savings and Resource Optimization: The **VEZHA** products have led to cost savings and resource optimization for the Zaporizhzhia Situation Center. With automated systems for traffic analysis, object detection, and attendance control, the center can allocate its resources more efficiently, focusing on critical tasks and reducing manual labor.

Recognition and Awards: The successful transformation of the Zaporizhzhia Situation Center with IncoreSoft's **VEZHA** products has garnered recognition and awards both locally and internationally. The center has been acknowledged for its innovative approach to city management, safety, and technology adoption.

ADVANTAGES OF THE MILESTONE INTEGRATION



VEZHA plugins are tightly integrated with the Milestone system, providing a unified platform for surveillance cameras. This allows operators to access all the necessary information, utilize real-time video analytics, exchange data between systems, perform intelligent searches, and centrally manage cameras. This integration facilitates convenient management and enhances security at the Zaporizhzhia Situation Information Center.



FUTURE EXPANSION

In conclusion, the implementation of IncoreSoft's **VEZHA** product suite has revolutionized the Zaporizhzhia Situation Center, significantly enhancing its capabilities. With improved traffic management, enhanced security measures, efficient operations, and comprehensive reporting, the center has become a model for smart city solutions. The success story of the Zaporizhzhia Situation Center showcases the transformative power of **VEZHA** products in creating safer and more sustainable urban environments. Over 2,300 offenses have been solved and thousands of crimes prevented, resulting in increased safety for residents. The center plans to expand the deployment of **VEZHA** licenses throughout the city to further enhance safety and security.

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