



AAB EXISTENCE TECHNOLOGES

COMPANY
OVERVIEW



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MISSION

To encourage, engage and equip others to believe in the endless possibilities of AI in serving the future of humanity.



VISION

Creating the most compelling AI company by assembling the smartest A team in the 21st century delivering innovations that will drive Earth's future in the galaxy.



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AND TRANSPORTATION
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**COMPANY
OVERVIEW**



We are the only one stop system integrator in Africa for Counter Terrorism, Traffic Management and Law Enforcement systems. Together with our dedicated team and trusted partners, we devote ourselves to evaluate all your needs whether it's speed and red-light enforcement, LPR, long range defender systems, onboard military applications, body cams or any latest cutting-edge technology to ensure our clients' safety requirements.

Over the years we expanded our portfolio with projects all over Egypt and the African Nations. We cooperate with governmental and nongovernmental organizations, providing the latest cost-effective solutions for their homeland security, public safety, traffic enforcement and transportation management. Our R&D department continuously innovates and introduces new products to make sure we stay on top of the rapidly evolving technologies, latest systems and techniques to keep our clients at their best!



AAB EXISTENCE making roadways safer and more efficient by developing Artificial Intelligence Platform which consists of a set of machine learning modules and Edge systems. AI technologies allow us to dedicate our technical resources to maximize the AI model's results with license plate recognition, vehicle detection and model and color classification algorithms and develop a real-time Intelligent Traffic Management Platform.



DRIVING SIMULATORS

Traditional driver training can't prepare future road users for critical situations and bad weather conditions, but a simulator can. It shows the trainees the consequences of their actions without causing damage and injuries, while developing skills, competence, confidence and overcoming the fear of driving. ST Software, fully manufactured in The Netherlands offers wide field-of-view and real-world driving simulators.



AUTOMATIC VEHICLE INSPECTION

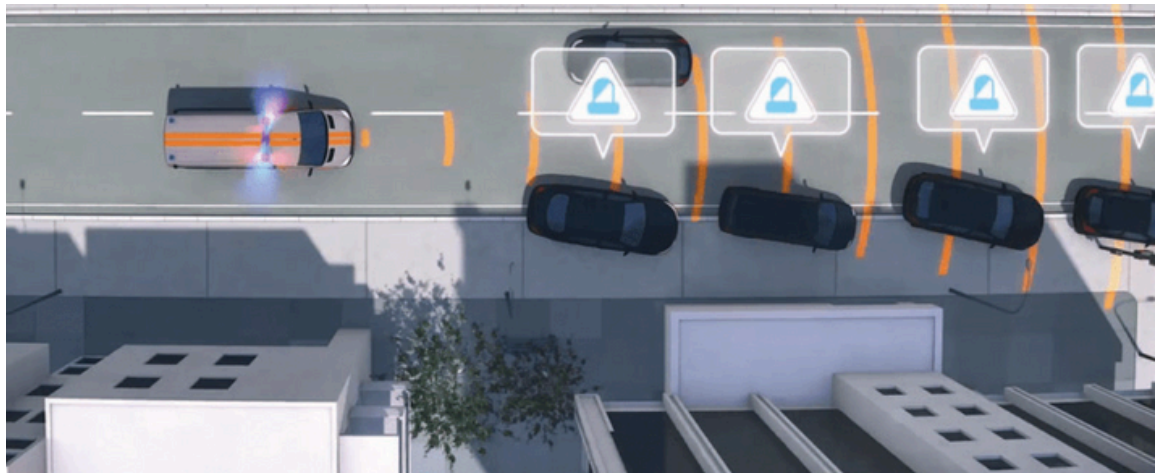
**INTELLIGENT TRAFFIC,
TRANSPORTATION
& ROAD SAFETY**

Van Leeuwen Test Solutions, better known as VLT, a world-wide specialist in the field of vehicle testing, has existed for more than 60 years, supplying the most modern test equipment, combined in fully integrated test lanes for vehicles. The lanes are highly computer controlled and have a vehicle tracking system, resulting in a capacity of 20 to 25 vehicles per test lane per hour, with half the number of inspectors previously required. They are continuously updating their invention, creating testing lanes for trucks, trailers, buses, cars and motorcycles, in a fully automated, corruption proof system.



STREET LASER SYSTEMS

LaserAid is an innovative laser signaling system that creates 2D and 3D paths that make highways, road edges, roundabouts, tunnels, docks, crosswalks, train platforms etc. more visible, specifically in the dim light of the early hours and in bad weather conditions such as dense fog. The Laser Aid system is one of a kind and an AAA patented technology.



EVAM TRANSMIT



Evam Transmit is a vehicle-to-vehicle digitalized version of warning lights and sirens that allows emergency response teams to give an early signal to ongoing traffic, clearing up the road ahead. Besides traffic safety, it creates a safer work environment for the rescue teams and shortens the arrival to the scene. The warning message is played through the already existing sound systems of civil cars and different usage modes ensure optimal outcome of the situation.



HANDHELD DIGITAL VIDEO LIDAR

Support photographic evidence and videos using laser technology for a more adequate tracking history

LaserCam4, powered by ProLaser 4, delivers irrefutable video and photographic speed enforcement evidence in a 1.7 Kg hand-held compact digital video lidar, operable corded or with batteries.

The standard package can be upgraded with a tripod with mounting kit, 12VDC corded handle, wireless printer, video memory upgrade, fixed IR illumination kit and other optional accessories.

The ProLog™ back office enables any agency to easily manage their video evidence by securely storing each video, image and metadata.



IN VEHICLE RADAR

In vehicle radars support simultaneous photo-video capturing, in wide angle or zoom mode, in or outside stationary and moving vehicles, recognize license plates, vehicle class classification and violations all at once. The system automatically determines the violators on basis of the data from the radar and immediately transmits the evidence to the police back-office.



**STREET
HUNTER**

STREET HUNTER

A modern approach to road safety management with our cutting-edge, robust speed camera solution, the Streethunter.

The newest addition to our product line captures license plates of in-compliant drivers exceeding speed limits in high-risk areas, night & day.

The user-friendly interface provides multi target speed measurement and vehicle classification with time/ date included, top quality high resolution photographic evidence.



FREE FLOW

LPR

LPR is a convenient technology for traffic surveillance and management, toll collection and law enforcement. LPR systems capture, read and register license plates and cross-check with data bases for blacklisted and suspended drivers, stolen or uninsured vehicles and collect data for further analysis.

Our own deep learning LPR engine guarantees the accuracy and reliability of results, and traffic entities will be able to perform more efficiently.



FREE FLOW LPR

On an average speed stretch, photographic evidence is taken upon entering and exiting the average speed zone. Number plates are read via ANPR as vehicles pass through the fields of view of each camera. Average speed is calculated based upon the time the driver took between the two points. A speed violation ticket will be issued, including all available evidence.

The system can detect all transit vehicles which allow authorities to check for stolen vehicles, traffic monitoring and optimization of traffic flow. Additional features as brand and color recognition and optical classification can be installed.



RED LIGHT ENFORCEMENT

The new Tattile Vega Smart Red Traffic Light automatically detects the light status of a traffic light using camera-based image analysis without any external sensor. The intelligent camera takes a picture of every license plate once the violation mode has been activated.

Tattile Vega Smart TL has evolved from a pure ANPR camera to a complete vehicle identification system, capable of capturing every license plate which can be used for traffic monitoring, vehicle tracking and security purposes.



VEHICLE CLASSIFICATION

Tattile’s add-on software libraries allow to transform simple ANPR (ALPR) cameras into big data collectors, providing a wide range of information for different purposes such as security, traffic analysis, smart cities, data classification, pollution estimation and traffic statistics. The software can be uploaded, even if the camera is already installed. Vehicle Brand, Class, Color and Model (BCCM) recognition algorithm, based on Artificial Intelligence runs inside the camera. LPR and BCCM generate what we call the vehicle “fingerprint” by a single source, without extra software, processing server and integration time. The applications are used for security, crime prevention and tolling purposes.



TOLL MANAGEMENT SYSTEMS

Toll management systems are installed to collect revenue from road users to cover expenses for construction of new roads and maintenance of the existing ones.

The system itself is scalable and extensible with average speed enforcement, LPR, security applications, traffic statistics and access control, face detection systems, MMC recognition and ERP systems.

We provide tailored solutions that generate reliable reports for future analysis.



FLEET MANAGEMENT

Our fleet management systems consist of applications, tools and technologies that help businesses maintain optimal use of their work vehicles from a centralized platform. Through the use of data base information software, telematics and GPS tracking software, companies can keep track of their vehicles, fuel consumption, weight control, maintenance schedules, reduce road accidents and monitor the behavior of their drivers.





AUTOMATED PARKING SYSTEMS

Parking management systems increase the quality of service of parking lots through the integration of a smart system that manages in & outbound vehicles using LPR cameras. The system gives an overview of available parking space and keeps track of the parking time per vehicle. The operator can easily search through the folder of parked vehicles for details. All data collected can be presented by comprehensive reports for the business owner.



CITY SURVEILLANCE

City surveillance systems are specifically designed to keep an eye on the city through strategically placed sensors that capture and send data to a centralized command center.

The analyzed data help to improve safety, regulate traffic issues and increase the efficiency of the city overall.

Together with our partner Axis communications we offer the latest technologies for a smarter and safer world.



X-RAY SCANNER

Tudortech takes airport security to another level by scanning entire planes for explosives, illegal substances and weapons, offering a unique solution that addresses the operational and security needs of governments and the airline industry. Their vehicle inspection solution is being used at border controls to detect the trafficking of contraband, illegal drugs, persons, weapons and other dangerous objects



BODY WORN SYSTEMS

Body worn systems provide indisputable proof of incidents and teaches officers to self-evaluate and improve situation handling. Alongside our partners Nova Defensio and Kustom Signals we offer top of the line body cams that assist officers and security personnel in their daily routine. Video recordings are stored for further analysis and statistical evaluation. A built in GPS, panic button and push to talk button add more features for the officers on duty.





IN VEHICLE SOLUTIONS

Our in-vehicle solution is an integrated, modular and scalable solution designed with the latest generation of in vehicular technology.

Tailored to assist and empower law enforcement agencies to surveil and prevent crimes, the design incorporates advanced market-leading ANPR cameras, 360° surveillance, facial recognition, speed detection and intelligent video analytics, all under one centralized management console. Our Partner Prassel is committed to offer tailor-made solutions and customize ready-made solutions on-demand to adapt to any security design or need.



Speed detection



GPS Localization



Video Surveillance



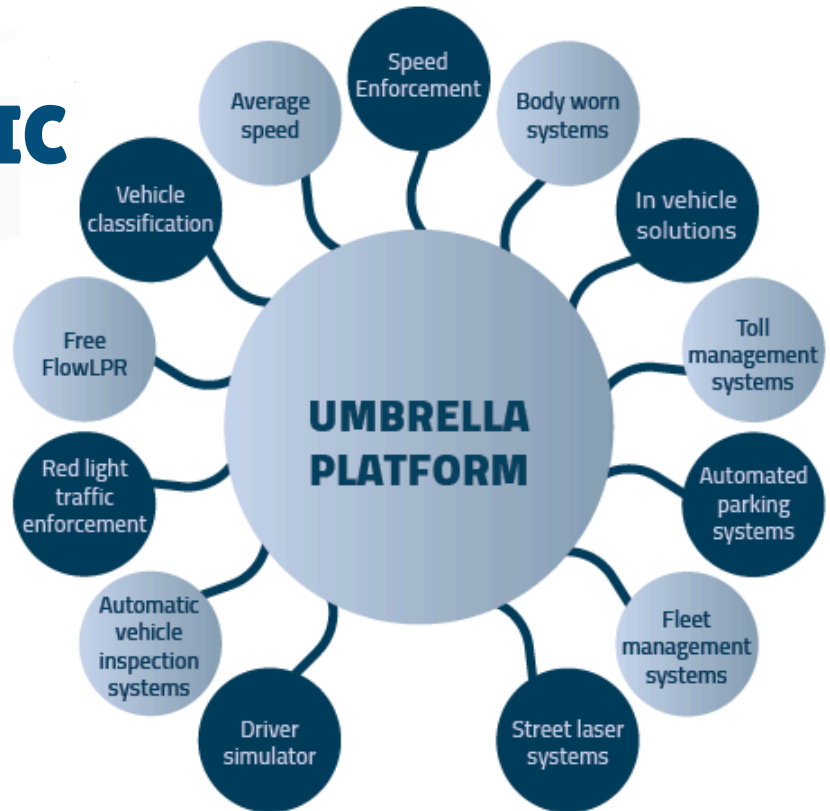
Facial Recognition



PRE-ALARM TACTICAL PLATFORMS

Pre-alarm tactical platforms provide perimeter security and surveillance using radar, automatic identification systems, cooled or uncooled thermal cameras, and near infrared cameras to cover vast, large outdoor areas. They can zoom in to capture clear detailed images and operate in the harshest weather conditions, under and above the sea, on land, in the sky and fixed or mounted on a moving vehicle.

INTELLIGENT TRAFFIC MANAGEMENT PLATFORM



UMBRELLA PLATFORM

We provide an intelligent turnkey software solution that hosts a wide variety of different sensors.

Our software platform is able to manage several different architectures and provide territorial data analysis and location intelligence.

All the mentioned systems are integrated under one umbrella platform to monitor and manage the outputs and scenarios from the system.



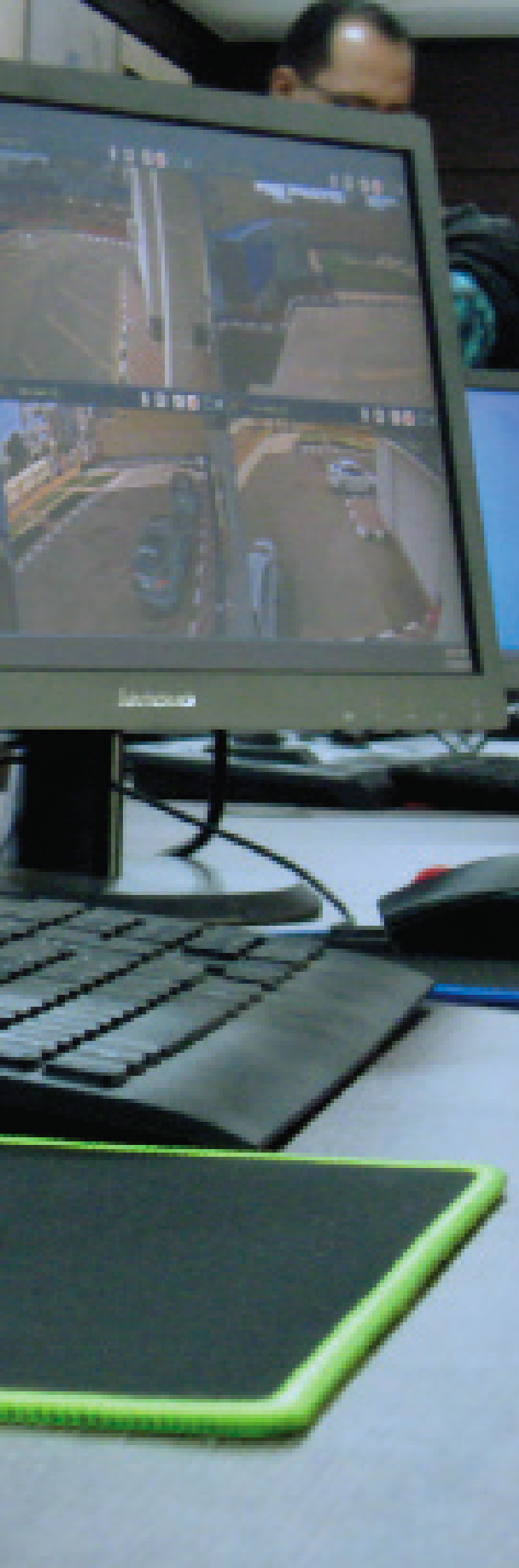
PUBLIC SECURITY AND COUNTER TERRORISM



Counter-terrorism incorporates practice, tactics, techniques and strategies that governments and agencies use to battle terrorism.

We make communities safer with reliable, integrated and scalable solutions, assisting governments in planning and responding to terrorism threats efficiently.





COMMAND AND CONTROL CENTERS

Command and control centers provide centralized monitoring, control and command over one or more situations, increasing operational efficiencies.

Dedicated staff monitors the daily routine of city life and ongoing traffic, reports the anomalies and responds accordingly. We design, build and equip your CCC with the latest technologies on the market.

AERO SURVEILLANCE & DETECTORS

Aerial surveillance is the gathering of intelligence, surveillance and reconnaissance information from an airborne vehicle for safety, strategical or defensive purposes. Due to illegal use of drones and illicit payloads, counter drone systems are being installed to secure airspace and sensitive areas.





**INTELLIGENT TRAFFIC, TRANSPORTATION
& ROAD SAFETY**



COUNTER -DRONE SYSTEMS

Counter-drone systems provide an early warning sign of incoming drones from many kilometers away, even before they leave the ground. Our state-of-the-art detection and counter measure products detect and/or intercept unmanned aircraft systems and provide protection against the growing threat of drones in civilian and military environments.



UAVS

UAVs fly without the onboard presence of a pilot and are usually controlled by a ground-based controller and a system of communications, although some fly partially autonomous without any human intervention. UAV swarm Technology allows a higher level of autonomy and reliability with UAV-to-UAV communication and coordination, in which each UAV has its own data collecting and processing tasks.



PAYLOADS & GIMBALS

Payloads are cameras and sensors, mounted on the UAVs, used in military surveillance and reconnaissance, counter drug operations, homeland security, search and rescue and many other applications.

We offer high end gyrostabilized payloads with the longest ISR detection range during day & night. The new generation gimbals have an onboard video processor integrated inside the gimbal, which makes them more cost effective.



RESEARCH & DEVELOPMENT

Our dedicated R&D team manages the necessary research to enhance our capabilities and services, improve our existing products and thoroughly test new ones before they are added to our product line. Through meticulously investigating the market and the needs of our customers, we develop better business strategies and stay ahead of the competition.



MAINTENANCE & AFTER SALES

Our in-house maintenance & after sales team continues to ensure customer satisfaction beyond the point of sales. With a fully equipped lab for repairs, testing and component changes, our experienced team of technicians reduces the nuisance of broken and malfunctioning equipment to the minimum. Through constant interaction and communication with our customers, we maintain customer loyalty and trust as well as brand reputation.

OUR BRANCHES



**New Cairo, 81 Gardenia Heights 3, Fifth
Settlement**



PARTNERS

