



TRUEYETM

2024
Product Overview Presentation
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TruEye

Video Analytics Solution

by VertexPlus Technologies Limited

Contents

This presentation showcase our business at a glance. This also gives an overview of our Video Analytics Solution 'TruEye' on which you are interested to learn more.

It is for informational purpose only, and the information given here is subjected to revisions, moving along the dynamics of ever-evolving IT industry and its power in enabling businesses.

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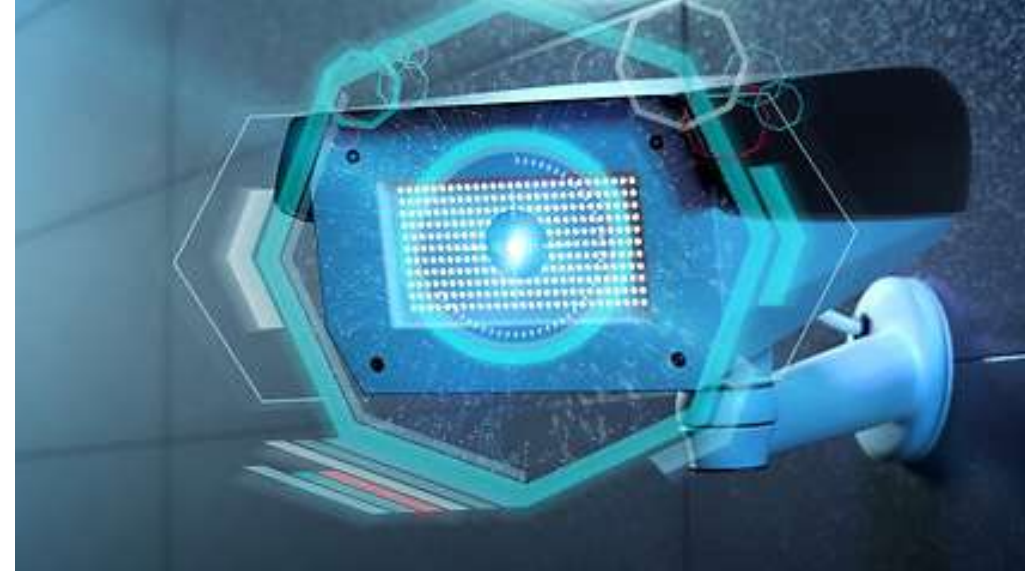
TRUEYE™

Introducing TruEye A Video Analytics Solution

www.trueye.io

VertexPlus TruEye

TruEye is a Video Analytics Application that empowers users to extract value from their mass of video surveillance content through integration of machine learning models for surveillance insights. It's a simple, clean, straight-forward, user-friendly application that delivers insights that help in expediting investigations, have more situational awareness, and enhance operational efficiencies.



Currently, below ML models are available for deployment:

1. Intrusion Detection
2. Crowd Detection
3. Tampering Detection
4. In/Out Count
5. Fire / Smoke Detection
6. Number Plate Recognition
7. Safety Gear Detection
8. Illegal Parking
9. Loitering Detection
10. Face Recognition
11. Vehicle Speed Monitoring
12. Vehicle Moving Direction
13. Missing Object
14. Object Tagging & Tracking on Single Camera
15. Dwell time with Heat map
16. Noise Detection

Talk to us to learn what such models does for tactical and strategic advantages across businesses and industries.

Features Description in brief

Components	Description
Intrusion Detection	Detects Intrusion when a person or object goes into a protected zone at unauthorized times. Intrusion means entering a restricted area without permission
Crowd Detection	Detects and counts people in an area. When the number of people goes over a set limit, an alert is triggered
Camera Tampering Detection	Spots unauthorized changes to a video surveillance system that could affect its reliability
Fire / Smoke Detection	Identifies the presence of fire or smoke within a monitored area to ensure timely alerts and responses, minimizing potential damage and enhancing safety
Noise Detection	Monitors audio levels to identify when noise exceeds a set decibel threshold
Person In / Out Count	Tracks the number of people or vehicles entering and exiting an area
Number Plate Recognition	Detects and reads vehicle license plates using surveillance cameras
Safety Gear Detection	Monitors people to ensure they are wearing required safety equipment, such as helmets and vests

Features Description in brief

Components	Description
Vehicle Speed Monitoring	Measures and tracks vehicles speed in a monitored area to enforce speed limits and improve road safety
Heat Map Generation	Creates a visual representation showing where people spend the most time in a monitored space
Illegal Parking Detection	Monitors specified areas within a camera's field of view to detect unauthorized vehicle parking
Loitering Detection	Monitors specified areas within a camera's field of view to identify persons who stay for a longer time than the specified time
Vehicle Moving Direction Monitoring	Monitors the direction of vehicles to ensure they follow traffic regulations. This ensures that the vehicle is not moving in the wrong direction.
Museum Mode	Detects when an object is no longer in its predefined position, and is missing
Object Tagging & Tracking	Detects and follows the movement of objects within the field of view of a single camera
Face Recognition	Identifies and verifies individuals to enhance security and control access. It matches faces in real-time with a database to efficiently recognize persons of interest.

VertexPlus TruEye

The range of our Video Analytics models continue to advance, along with technology advancement, market adoption and requirements for Video Analytics solutions.

We're also open to develop and deliver new models for specific, custom fulfilment case-to-case after thorough evaluation of requirements and deployment scenario.

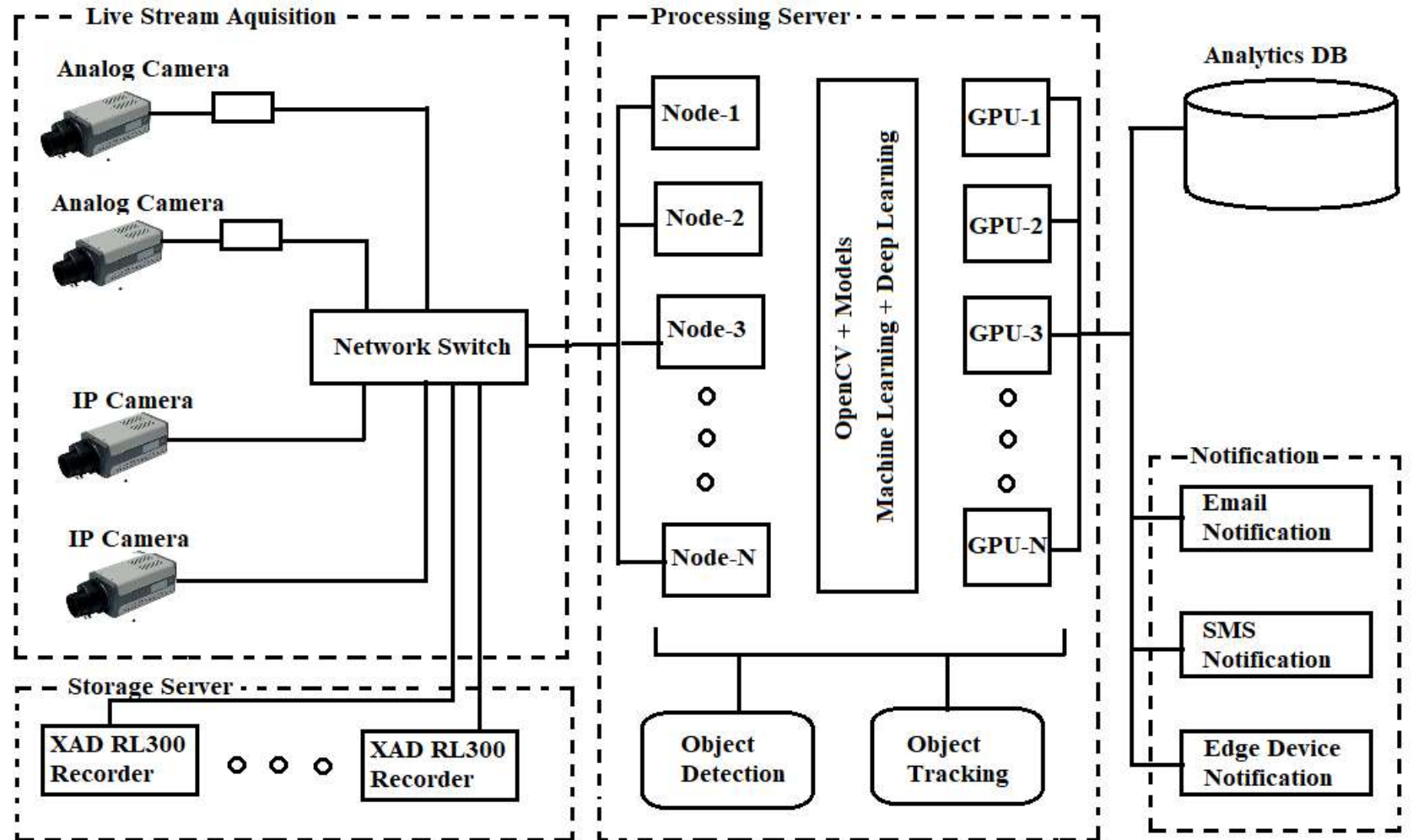
Request a Proposal by
mailing us your RFP.

Request a Demo to see how
these models operate.



Fundamental Video Analytics Architecture

that gets further detailed,
scaled and customized as
per use case scenarios



How this works, with some most common types of Video Analytics

Data Acquisition:

The process begins with capturing video footage using surveillance cameras strategically placed throughout the monitored area. These cameras continuously record activities and events within their field of view.

Data Pre-processing:

Before analysis, the raw video data may undergo pre-processing to enhance its quality and usability. This may involve tasks such as noise reduction, image stabilization, and compression.



(continues)...some most common types of Video Analytics

Algorithm Application:

Video analytics applies specific algorithms to the processed video data to perform security and safety-related functions. These algorithms fall into several categories:

- **Fixed Algorithm Analytics:** These algorithms are predefined and programmed to perform specific tasks, such as detecting motion, tracking objects, or recognizing predefined patterns or behaviors. They operate in a deterministic manner and are designed for well-defined tasks.
- **Facial Recognition Systems:** Facial recognition algorithms analyze facial features captured in the video footage to identify and verify individuals. These systems compare facial patterns against a database of known faces to recognize specific individuals or detect unauthorized persons.
- **Artificial Intelligence Learning Algorithms:** AI-based algorithms, including machine learning and deep learning models, enable video analytics systems to learn from data and improve their performance over time. These algorithms can adapt to changing environments, recognize complex patterns, and detect anomalies with high accuracy.

Event Detection and Notification:

Event Detection and Notification: Video analytics continuously analyzes the video data in real-time to detect suspicious or unwanted behavior within the camera's field of view. When an event of interest is identified, such as unauthorized access, intrusion, or safety hazard, the algorithm triggers an alert or notification to notify operators or security personnel.

Response and Intervention:

Upon receiving an alert, operators or security personnel can take appropriate actions based on the nature of the detected event. This may involve dispatching security personnel to the location, activating

alarms or sirens, or initiating automated responses such as PTZ camera tracking or access control lockdown.

Feedback and Improvement:

Video analytics systems often incorporate feedback mechanisms to continuously evaluate and refine the performance of the algorithms. This may involve human intervention to review flagged events, provide feedback to the system, or retrain machine learning models based on new data.

Why it is so crucial

Enhanced Safety Measures:

It enables the detection of safety measures such as Personal Protective Equipment (PPE) compliance, including hard hat, safety belt, face mask, glove, and jacket detection. By monitoring and ensuring workers' adherence to safety protocols, video analytics helps mitigate risks associated with hazardous gases, damaged safety equipment, electric damage, and perilous actions, thereby promoting a safer work environment.

Unauthorized Access Management:

Video Analytics, including face recognition technology, allows for the management of unauthorized access to restricted areas within manufacturing facilities. By only permitting authorized personnel to enter designated areas and raising instant alarms for unauthorized access, video analytics helps prevent theft, deceitful activities, and security breaches.

AI for Quality Assurance:

This technology plays a crucial role in quality assurance by monitoring equipment conditions, detecting damage or anomalies, and sending alert notifications to monitoring personnel. Additionally, it can be utilized for conveyor belt monitoring, level detection of molten metal, spillage detection, jamming detection, material quality monitoring, temperature checks, measurement, and color recognition, ensuring product quality and minimizing defects.

Logistics Management:

It facilitates efficient logistics management by automating tasks such as counting the number of boxes, recognizing vehicle number plates, identifying vehicle types, monitoring in-out times during loading/offloading processes, and providing assistance to commercial drivers. By optimizing logistics operations, video analytics helps streamline supply chain processes and improve overall efficiency.

The key benefits outlined

Cost Saving: Implementing video analytics solutions can help reduce operational costs by replacing traditional security measures, such as guards, with automated video surveillance systems. This leads to cost savings by eliminating the need for manual monitoring and reducing the reliance on human resources.

Time-Saving: Real-time video surveillance provided by video analytics systems allows for quick detection and response to any movement or activity within the facility. This saves time compared to traditional safeguards, enabling faster identification of potential issues or threats.

Productivity: Automation of processes through video analytics can significantly enhance productivity by streamlining operations, minimizing downtime, and optimizing resource utilization. This allows companies to produce and service quality outcomes in less time, thus increasing overall productivity.

Risk Reduction: Video analytics helps mitigate risks by continuously monitoring critical hazards within the usage environment with high accuracy and efficiency. By promptly identifying safety issues or potential hazards, companies can take proactive measures to prevent accidents and ensure a safer working environment.

Theft Reduction: Video analytics software enables companies to protect their products and equipment from theft by providing continuous monitoring and surveillance. By detecting unauthorized access or suspicious activities in real-time, video analytics helps deter theft and minimize losses.

Accuracy: With video analytics, processes can achieve higher levels of accuracy compared to manual methods. By automating tasks such as product measurement, quality control, and monitoring, video analytics ensures consistent and precise results, leading to improved product quality and customer satisfaction.

Want to request proposal/quotation?

Include in your RFP, your inputs on questions in this draft while requesting a proposal / quotation / detailed information from us.

By providing detailed information in the RFP, you as a client and we as technology solution provider, both parties favour operational speed, accuracy and efficacy during pre-sales process.

Please feel free to Modify as per your best practices.

1. Introduction:

- a. Overview of the client's organization and its industry.
- b. Purpose of the RFP and the desired outcome.

2. Background:

- a. Description of the current video surveillance setup (if any).
- b. Challenges or limitations faced with existing systems.
- c. Goals and objectives for implementing video analytics solutions.

RFP / EOI Considerations

Include in your RFP, your inputs on questions in this draft while requesting a proposal / quotation / detailed information from us.

3. Scope of Work:

- a. Detailed description of the required video analytics functionality, including specific features. Check out the list of available features in downloadable product presentation on 'Resources' page of www.trueye.io
- b. Number of Cameras installed or if required from us.
- c. [If applicable] - Integration requirements with existing surveillance systems or other technologies
- d. [If applicable] - Storage requirements
- e. [If applicable] - Processing [GPU] requirements
- f. [If applicable] - Scalability requirements for future expansion

4. Technical Requirements:

- a. Specifications for hardware
- b. Software requirements, including compatibility with existing camera and video management systems.
- c. Any specific performance metrics or accuracy thresholds required.
- d. Security and privacy considerations, such as data encryption and compliance with regulations (e.g., GDPR).
- e. Images and video footages to evaluate deployment scenarios, site of the solution features to be deployed at

Note: Sub-point e may be requested from you after receiving RFP and before providing you quotation. If for security reasons NDAs are to be signed, we do that as per case to case mandates.

RFP / EOI Considerations

Include in your RFP, your inputs on questions in this draft while requesting a proposal / quotation / detailed information from us.

5. Implementation Plan:

- a. Timeline for deployment, including key milestones.
- b. Resource requirements from the client's side (e.g., IT support, training personnel).
- c. Testing and validation procedures to ensure the effectiveness of the solution.

6. Support and Maintenance:

- a. Expectations regarding ongoing support, including response times for troubleshooting and issue resolution.
- b. Options for maintenance contracts, software updates, and upgrades.

7. Vendor Qualifications:

- a. Criteria for evaluating vendor proposals (e.g., experience in video analytics, references from similar projects).

8. Budget and Payment Terms:

- a. Budget allocation for the project, including hardware, software licenses, and implementation costs.

9. Submission Details:

- a. Deadline for submitting proposals.
- b. Contact information for inquiries and submissions.

10. Additional Information:

Any other relevant details or considerations specific to the client's organization or industry.

Some Video Analytics Case Studies outlined

Case: Automated Bag
Counting System using Video
Analytics for a global-leading
consumer goods company



The Situation

A global-leading consumer goods company, faced challenges in maintaining optimal inventory levels due to the time-consuming and error-prone process of manually counting bags on pallets. This method led to inaccurate inventory records, stockouts, and overstocking, negatively impacting warehouse operations and profitability. To address these issues, our project aimed to integrate video analytics to track and resolve the problem of missing bags during palletizing for P&G.

The Challenge

The business challenge was that the current manual counting method resulted in frequent undercounting of packets, leading to significant losses. Ensuring accurate bag counting during operations was crucial to prevent missing bags at distributor locations. The solution was to develop an automated system that would increase accuracy, minimize errors, and provide substantial cost savings.

The Solution Approach

Our approach involved implementing an automated bag counting system using video analytics to track and count bags placed on pallets. This system employed a deep learning object detection model to distinguish between positive and negative scenarios based on predefined criteria. Positive scenarios involved correctly placed bags that should be counted, while negative scenarios involved situations where bags should not be counted.

The Cumulative Results

The implementation of the automated bag counting system resulted in increased accuracy and a significant reduction in counting errors. The solution provided real-time visibility of bags at pallet levels, ensuring accurate inventory records and reducing losses due to missing bags.

The Implementation

1. Analysis and Consultation:

Conducted a detailed analysis of the warehouse layout, camera placement, and lighting conditions to strategize the optimal tracking setup. Gathered frame data from the camera for various activities, aiming for 1500 frames per activity.

2. Custom Deep Learning Model Development:

Developed a custom deep learning model for object detection, tailored to accurately identify and track bags. This model was trained using 13,500 images. We integrated the model with the camera system for live monitoring and packet counting.

3. Object Annotation:

Added markings or labels to specific objects, such as bags within images, to enhance the dataset robustness for training the object detection system. This process covered scenarios including:

- Placing bags on pallets.
- Bags falling while being kept.
- Bags falling after being kept.
- Removing placed bags from the pallet.
- Multiple people placing bags on pallets.
- Multiple removals from the pallet.
- Bags lying around the pallet.

4. Dashboard:

As part of our comprehensive solution to improve packet counting accuracy for P&G, we developed a sophisticated dashboard. This dashboard provides real-time visibility and analytics, enhancing operational efficiency and decision-making.

5. Integration and Testing:

Seamlessly integrated the developed solution with the camera infrastructure and software system.

Case: Intrusion Detection for Theft Control using Video Analytics Technology



An Independent Power Producer, and a leading player in the Indian energy sector, the client is focused on Solar Power, Thermal Power and Hydro Power in alignment with India's Power Generation strategy.

The company has built a portfolio of 4 GW in Thermal and Solar Assets (in India and countries like Germany, UK, and Japan). With a current asset size of USD 2 billion, the company employs more than 1000 associates across different locations. Apart from infrastructural development, the company is committed in catering to the needs of the most marginalized communities, with special attention to women, children, and local tribes. Its community programs focus on Sustainable Livelihood & Women Empowerment, Education & Capacity Building, Youth Development, Health & Family Welfare.

The Client

UTILIZING THE BEST
OF THE NATURE TO CREATE A BETTER FUTURE
**NATURAL
RESOURCES**

**SOLAR
POWER**



Effective Energy Solutions

**THERMAL
POWER**



Transforming Power Sector

**NATURAL
RESOURCES**



Using Nature for a Better Future

EPC



Engineering
Procurement
Construction

The Situation

Companies invested in power production own massive size of power assets. They roll in and out billions of USD, thousands of employees and associates, through mammoth infrastructure, spread across many geographical locations.

Besides aiming maximum returns to stakeholders, they are consciously invested in contributing to infrastructural goals of the country and their own corporate social responsibility.

Technology enabled Intelligent management systems run like veins in the entire complex structure. Lot is at stake. Vulnerabilities and risks are as many.

Video Analytics is one of the many areas they look into to have a technology edge to smartly control potential risks and threats, lurking around the limitations and fallibility of security and surveillance systems installed.

Video surveillance is a very old task in security domain and has carried its itches. However, much water has passed under the bridge, from the times of human-monitored exclusive systems to current video analytics based solutions, where a human is needed to monitor the alerts generated by a video analysis system and decide what should be done, if anything.

The client needed a sophisticated and well-developed surveillance analytics system to achieve business security goals

- a system that integrates video analysis and other data, allowing automated in-depth analysis to a degree impossible for humans within a workable timeframe

- with the functionality offered by intelligent video analysis that could monitor and control the threat to their raw material preserved at the backyards of remote vendor locations.

The Challenge

Besides perimeter security, their backyards, mine areas, warehouses, storages, normally have hundreds of CCTV cameras installed throughout. These surveillance cameras observe the many processes within the area, and are mostly installed in a permanent, overt manner, with portable covert cameras being used on a temporary basis. The control room operators observe the general movement of objects and people, but with limited success. They have too many security cameras to monitor and cannot effectively highlight or detect unusual, high-risk or tell-tale events. This can betray suspicious activities, leading to thefts, huge loss of resources, and associated impact on related business activities.

However, the maturely trained intelligent video management systems can provide strategic assistance and integrate with virtually any source of event data. Complex rules can be constructed to take into account related, but disparate events, which indicate impending failure or situations that warrant further investigation. These enable the video operator's attention to be targeted much more effectively to potentially productive areas.

The Solution

We found that an intelligent Video Analytics software could contribute in a major way by providing means of accurately dealing with volumes of data, information and scenarios.

Our video analytics application was able to process high volumes of data, detect intrusions, monitor vehicle movement in real-time, and give relevant statistics to the client to be able to take actions in areas where suspicions were abundant, generating theft issues.

Vehicle counting, differentiating between models of vehicles, developing anti-theft mechanisms, training system on specific scenarios, generate high-value statistics were used to obtain insights about movements and activities that commit an infraction.


The screenshot displays the VertexPlus software interface. At the top, there is a navigation bar with the VertexPlus logo and a user profile icon. Below this, the main content area is titled "Archive Videos - ()". It features a video player showing a road scene with a white truck and a yellow truck. The video has a timestamp of "09:30:2022 PM 10:11:22". Overlaid on the video are several horizontal lines: a red line at the top, a yellow line in the middle, and another red line at the bottom. A yellow arrow points to the right along the yellow line. In the bottom left corner of the video frame, the text "Up: 3561" is displayed in red.

Below the video player, there is a search and filter section. It includes a "Camera" dropdown menu set to "Material Gate Boundary - 10.54.10.241", "From" and "To" date pickers, and "Submit" and "Clear" buttons.

At the bottom, there is a table with the following columns: "S. No.", "Camera", and "Time". The table contains 10 rows of data, all from the same camera and on September 30, 2022.

S. No.	Camera	Time
1	Material Gate Boundary - 10.54.10.241	Sept. 30, 2022, 1:49 p.m.
2	Material Gate Boundary - 10.54.10.241	Sept. 30, 2022, 1:40 p.m.
3	Material Gate Boundary - 10.54.10.241	Sept. 30, 2022, 1:28 p.m.
4	Material Gate Boundary - 10.54.10.241	Sept. 30, 2022, 1:23 p.m.
5	Material Gate Boundary - 10.54.10.241	Sept. 30, 2022, 1:18 p.m.
6	Material Gate Boundary - 10.54.10.241	Sept. 30, 2022, 1:07 p.m.
7	Material Gate Boundary - 10.54.10.241	Sept. 30, 2022, 1 p.m.
8	Material Gate Boundary - 10.54.10.241	Sept. 30, 2022, 12:55 p.m.
9	Material Gate Boundary - 10.54.10.241	Sept. 30, 2022, 12:50 p.m.
10	Material Gate Boundary - 10.54.10.241	Sept. 30, 2022, 12:44 p.m.

The Solution



The solution provided more than 90% accuracy from large volume of data collected through cameras. The reviewing authorities started getting real-time statistics with continuity, without having to rely on random data that gives incomplete and unreliable insights to back on. The client was satisfied with multiple authentic notification generated in a customized way, e.g., for various dates and times of the day. They could detect threats and launch immediate control measures.

The Scheme of How

Review video streaming sources and coverage area

To reveal the potential for adopting and adapting to systems in use at a mining environment we first needed to look at systems already employed. And to have a clear view of the entire area from various angles, where the events being monitored might occur.

Feeding the Video Analytics System

The data came from various video streaming sources such as CCTV cameras, Industrial IP Camera, Cloud Video Stream, Archived Video Stream etc.

Running the system

Video analysis software was run centrally on servers located in the monitoring station. This is known as central processing. Central Processing refers to where data is processed centrally or remotely.

Defining Scenarios

The scenarios to focus on, were defined. Such as processing Live Camera Stream from IP Camera and Archive Video Processing

Using pre-trained models / Training the models

We used pre-trained model as well as custom model which could be trained

Human Involvement

The system must provide valuable support to human operators by helping them, detect events that might otherwise be overlooked or take a long time to detect manually.

A photograph of an industrial facility with two workers. One worker is wearing a white shirt and a yellow hard hat, and the other is wearing a blue shirt and a white hard hat. They are standing in front of a complex network of pipes and machinery. The scene is brightly lit, and the background shows more industrial equipment and a window.

Case: Industrial Safety Monitoring and Improvement using Video Analytics

The Situation

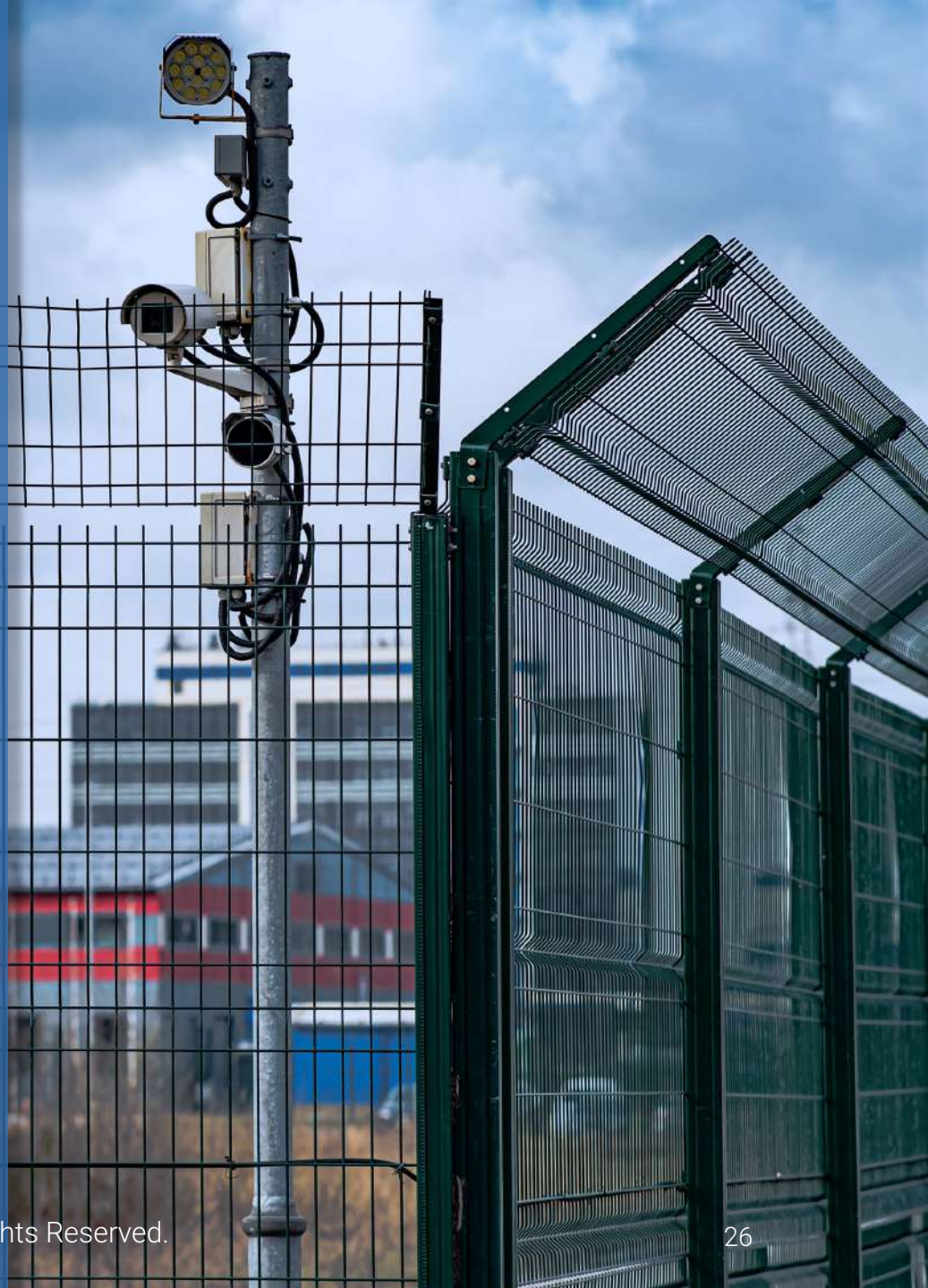
Operations & security posed two pivotal issues at this Specialty industry focussed on niche markets, specialized products and services. They were often catering to specific customer needs or preferences, and their products or services was requiring a certain level of expertise and craftsmanship. The client was encountering challenges in ensuring safety compliance within their facilities due to the limitations of manual monitoring using manned CCTV cameras. These challenges included resource intensiveness and ineffectiveness in detecting safety breaches. To address these issues, a Video Analytics solution was introduced, which resulted in better safety monitoring processes and cost savings.

Leveraging video analytics in industrial operations can significantly enhance workplace safety by providing real-time monitoring and alerts in areas with moving vehicles, moving people, machinery, shop floors and places of potential hazards.

The Challenge

Resource Intensiveness: Manual monitoring using manned CCTV cameras requires significant human resources, which can be costly and inefficient.

Ineffectiveness in Detecting Safety Breaches: Traditional CCTV systems may miss or fail to detect safety breaches in real-time, leading to potential accidents or incidents.



The Solution Approach



A well-structured approach towards implementing video analytics solutions in manufacturing environments, emphasizes the importance of understanding infrastructure, defining scenarios, and leveraging technology to enhance security, safety, and operational efficiency.



Understanding Infrastructure and Deployment Needs:

- 1. Assessment of Existing Systems:** The team analysed the systems already employed in manufacturing sites to gain insights into the coverage area and potential gaps in monitoring.
- 2. Installation of Cameras:** Cameras were strategically installed at specific locations based on coverage area requirements and the type of camera (e.g., PTZ, night vision) needed for optimal monitoring.
- 3. Infrastructure Setup:** A DVR-based CCTV system was utilized, along with a server system to support video analytics models and deploy web applications for centralized processing.

Feeding the Video Analytics System:

- 1. Server Specification:** The server specifications were tailored to the requirements of running different video analytics models and handling data from multiple cameras.
- 2. Data Sources:** The data for video analytics was sourced from various video streaming sources, indicating a comprehensive approach to monitoring different areas of the manufacturing sites.

The Solution Approach

Running the System:

1. Central Deployment: The video analysis software was deployed centrally for efficient processing, enabling real-time monitoring and analysis of events across multiple locations.

2. Web Application: A web application was developed to provide centralized streaming of all cameras installed at various locations, including the head office, facilitating easy access to live feeds for security and monitoring purposes.

Defining Scenarios and Model Usage:

1. Scenario Definition: Scenarios were defined to focus on specific areas such as theft control, security measures, and staff efficiency improvements, aligning the video analytics system with business objectives.

2. Model Selection: Pre-trained models were utilized to map scenario requirements, ensuring efficient detection of events and optimization of resources.

Human Involvement and User Support:

1. Event Detection Support: The video analytics system provided support to users by detecting events that might have been overlooked or required significant time for manual detection, enhancing overall monitoring efficiency.

2. Interactive Dashboard: An interactive dashboard provide users with daily activities of the models, enabling easy monitoring and management of the system's performance.

The Implementation

Real-time Monitoring in Hazardous Areas: Video analytics software continuously monitored areas with moving vehicles, machinery, and people, such as shop floors or loading docks. This allowed for prompt detection of potential safety breaches.

Automated Alert Generation: The video analytics system was configured to automatically generate alerts when it detected safety violations, such as unauthorized personnel in restricted areas or workers not wearing appropriate safety gear.

Virtual Perimeter Monitoring: Virtual perimeter lines were created around hazardous machinery or areas. When a worker crosses these virtual lines, the system triggered an alert, prompting immediate intervention.

Behavioral Analysis (a part of it): Behavioral Analysis is a wide area. Our Video Analytics algorithms analyzed employee behavior patterns limited to loitering, idleness, crowding; and detected anomalies that indicated safety risks, such as erratic movement or prolonged inactivity near machinery.

Integration with Access Control Systems: Video analytics were integrated with access control systems to ensure that only authorized personnel have access to certain areas, further enhancing security and safety.

The Cumulative Results

Improved Safety Compliance: Real-time monitoring and automated alerts help ensure that safety protocols are followed consistently, reducing the risk of accidents and injuries.

Efficiency and Cost Savings: By automating monitoring processes, the company can reduce the need for manual surveillance, leading to cost savings and increased operational efficiency.

Risk Mitigation: Video analytics enable real-time identification and mitigation of safety risks, minimizing the likelihood of accidents and incidents occurring.

Data-driven Insights: The system generates valuable data and insights into safety trends and patterns, allowing the company to implement targeted safety measures and continuous improvement initiatives.



In every major business function, in every major sector, VertexPlus has covered all areas of the enterprise, enabling companies to increase their productivity, enhance efficiencies, reduce complexities, lower costs, improve controls, and make the most of every project success.

On received request to know more, we can showcase some of such experiences where technology, our know-how and clients' visions combined and created winning solutions.

About VertexPlus

Information Technology Company

A Global Technology Company architecting solutions and delivering differentiated, innovative, cost-effective, insight-driven, operationally excellent services to clients to help them achieve high performance, transformation, scalability and business sustainability.



We provide innovative technology solution and service models for business impact, through state-of-the-art infrastructure, well-crafted strategy, rigorous execution, and engagement approach.

We combine process proficiency, technical expertise, domain knowledge, innovation, intelligence and more than a decade's experience while navigating through projects of varying scales to deliver quality solutions and services.

With a large pool of highly talented professionals, we always value continuous research and innovation to fulfill dynamic requirements of clients worldwide, including Fortune 500 companies.

VertexPlus always strives to adapt futuristic approaches and technologies to help transform organizations into agile enterprises.

Company Overview

Business at a glance

VertexPlus Technologies Pte Limited is a global information technology ('IT') company engaged in consulting, outsourcing, infrastructure and digital solutions and services. The Company comprehends global industry practices and has serviced 700+ clients globally.

VertexPlus offers 4 broad categories of services and solutions:



The company is certified under ISO 9001:2015 and ISO/IEC 27001:2013 ensuring the highest standards of quality and security in all our operations.

The Company offers quality and timely delivery of complex enterprise projects through 5 delivery models: Off-shore, On-site, Hybrid, Global and Strategic Partnerships.

Global Industry Expertise



BFSI



IT/Telecom



Travel



Hospitality



Media



Manufacturing



Automotive



Education



Health Care



Logistics/
Transportation



Real Estate



Consumer/Retail



Our Practices

Our Services

Consulting Services

Technology Consulting Services

- ❖ Strategy & architecture
- ❖ BI & Analytics
- ❖ Cloud
- ❖ Big Data
- ❖ Enterprise Application

Security & Risk Management

- ❖ Information strategy & governance
- ❖ Crisis management
- ❖ Data security
- ❖ Cloud Security
- ❖ Risk and Gap Assessment
- ❖ Policy Procedure
- ❖ Security Awareness
- ❖ Digital Assets
- ❖ Network Security
- ❖ Application Security

Digital Transformation Services

- ❖ Strategy & innovation
- ❖ Digital processes
- ❖ Business process automation
- ❖ Digital experience

Infrastructure Services

- ❖ Smart workplace
- ❖ Cloud workplace
- ❖ System integration
- ❖ Data center
- ❖ Network & Security center

Experience Design Services

- ❖ User experience design
- ❖ Omni channel experience strategy
- ❖ Experience strategy

Digital Media Services

- ❖ Market research
- ❖ Brand strategy
- ❖ Social analytics
- ❖ Digital marketing
- ❖ Omni Channel Marketing
- ❖ Paid Advertisement
- ❖ App Marketing
- ❖ Trend Analysis

Machine Intelligence

Internet of Things (IoT)

Video Analytics

Artificial Intelligence

Blockchain



Our Services

Technology Services

Enterprise Mobility

- ❖ Mobile Experience Design
- ❖ Application Management Services
- ❖ Multi-product Mobility Solutions
- ❖ Mobile Application Security
- ❖ Mobile Analytics & BI

Quality Engineering Services

- ❖ QA Strategies
- ❖ Monitoring and Analysis
- ❖ Performance Engineering
- ❖ Application Testing
- ❖ Use Case Development
- ❖ Validation Service
- ❖ Testing as a Service
- ❖ Test Automation

Product Engineering Services

- ❖ Product Consultation
- ❖ Co-innovation and ideas
- ❖ System Architecture
- ❖ Iterative Development
- ❖ Product Transformation
- ❖ Deployment & Sustenance

Cloud Services

- ❖ Cloud Management as a Service
- ❖ Infrastructure as a Service
- ❖ Cloud Migration
- ❖ Backup & Disaster Recovery
- ❖ Cloud Storage Management
- ❖ Cloud Security
- ❖ Monitoring & Alerts
- ❖ Cloud Optimization
- ❖ Dockets & Containers

Integration Services

- ❖ API engineering
- ❖ API integration
- ❖ Cloud integration
- ❖ Business application integration

Application Engineering Services

- ❖ Design & Development
- ❖ Application maintenance and Optimization
- ❖ Application Modernization
- ❖ IOT Applications
- ❖ Database Management Systems
- ❖ Security Audit

Intelligent Automation

- ❖ Robotic Process Automation
- ❖ Business Process Automation
- ❖ Application Automation
- ❖ AI Powered Automation



Our Services

Infrastructure Services

Infrastructure Transformation Services

- ❖ Technology implementation
- ❖ Infrastructure reengineering

Managed Services

- ❖ Data center management
- ❖ Network management
- ❖ Security management
- ❖ Server management
- ❖ Desktop management

System Integration Services

- ❖ Component integrations
- ❖ Sub-system integrations
- ❖ Physical and virtual integrations

Monitoring & Alerting

- ❖ Smart Alerting System
- ❖ Robust Monitoring Solution



Outsourcing Services

Business Process Outsourcing Services

- ❖ HR outsourcing
- ❖ Recruitment process outsourcing
- ❖ Customer service
- ❖ Finance & accounting
- ❖ Outsourced content processing

Software and IT Support Services

- ❖ General product and user solutions
- ❖ Specific solutions
- ❖ Cost-effective support

Managed Sourcing Services

- ❖ Off-role contract employment
- ❖ Cost effective and agile solutions
- ❖ Remote solutions

Staffing Services

- ❖ Compliance solutions
- ❖ Payroll solutions
- ❖ Business law
- ❖ Offshore and onshore staffing
- ❖ HR related complex solutions



Our Practices

Our Solutions

Business Solutions

Enterprise Solutions

E-Governance Solutions

Service Delivery Management System

Video Intelligence

E-Commerce Solutions

Asset Lifecycle Management System

Project Management System

Digital Office Management System

HR & Payroll System

Point of Sales System

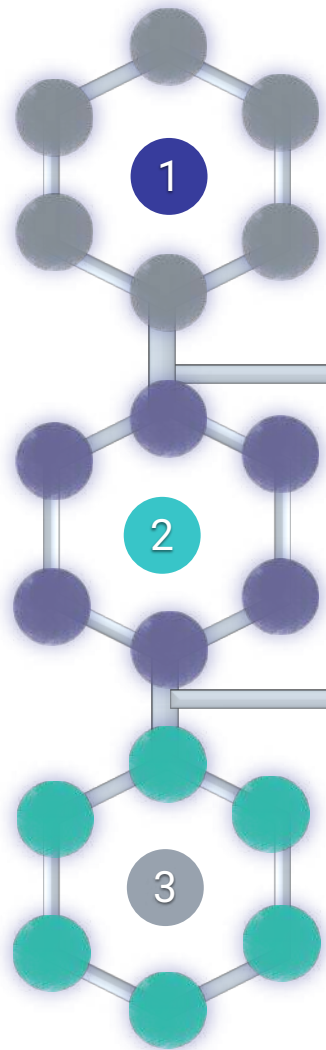
Consumables & Expense Management System

...and more

Partnerships and Affiliations



Value Proposition



Clients

- ❖ Global Best Practices
- ❖ Technology Expertise
- ❖ Domain Competence
- ❖ Always-on Support
- ❖ Business Resilience & Continuity
- ❖ Reliable Infrastructure
- ❖ Data and Information Security
- ❖ Knowledge Management

- ❖ Continuous Improvement
- ❖ Cost-effective Pricing Models
- ❖ Robust Communication engine
- ❖ Quality Practices & Quality Assurance
- ❖ Flexible Delivery Models
- ❖ Resource Scalability
- ❖ Best in-class Tools and Platforms
- ❖ Agile Operational Models

Investors

- ❖ Ease of adaptation to changing scenarios
- ❖ Good ROI
- ❖ Well-defined business model and business plan

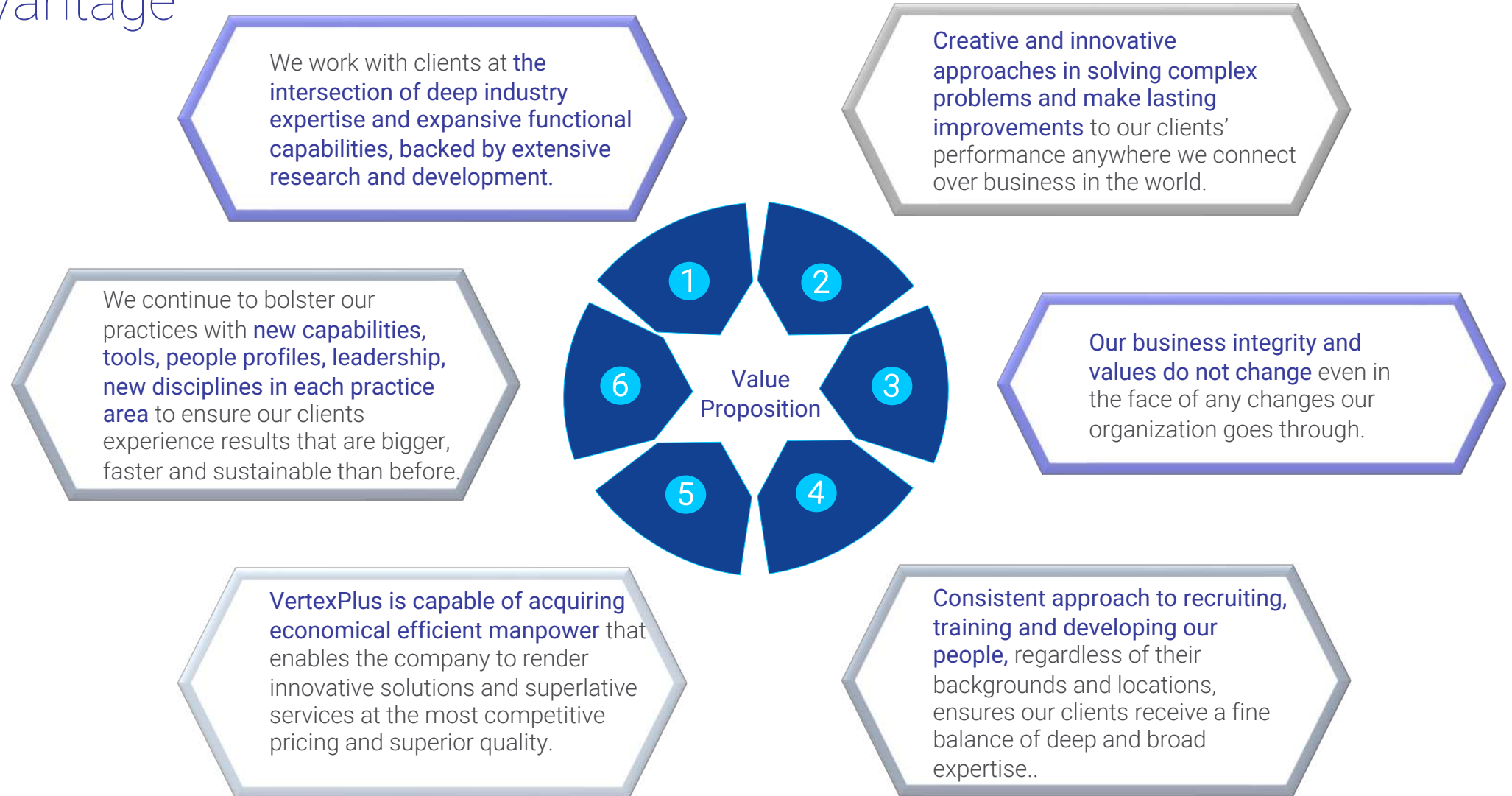
- ❖ Established and ever-expanding market, rich with demand
- ❖ Progressive Commercial Traction
- ❖ Business Continuity

Employees

- ❖ Career Advancement
- ❖ Work-life Balance
- ❖ Respect
- ❖ Stability
- ❖ Skill Development Opportunities

- ❖ Growth Rate
- ❖ Innovative Work
- ❖ Recognition
- ❖ Compensation
- ❖ Ethics / Integrity

The Advantage



Our Customers

Key International Clients



Our Customers

Key Clients



Other Valued Clients



IIT KANPUR



Rajasthan University of Health Sciences



Government of Republic of Mauritius



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Thank
You