



CXVIEW GPT Box & AI Video Analytics

Client Challenges. CXVIEW Solutions. Business Impacts.

From conservative CCTV infrastructure to real-time intelligence, operational automation and business-performance reporting.

AI

ABOUT CXVIEW

Founded in 2021 and headquartered in HCMC, CXVIEW builds AI infrastructure for the physical world. We specialize in AI Video Analytics and Edge Intelligence, transforming existing camera systems into real-time decision engines.

We go beyond traditional surveillance by delivering on-site AI processing, enabling enterprises to operate with speed, control, and data sovereignty.



Scan to download
our **Company Profile**

AI CAMERA IN SECURITY

01



Face Recognition



License Plate Recognition



Intrusion Detection



Fence and Wall Climbing Detection



Vehicle Weighing Recognition



Camera Tampering Detection

AI CAMERA IN OPERATION

02



Smart Workstation Monitoring



Automated Product Counting



Heat Maps & Route Maps Analysis



Product Quality Inspection



Traffic Counting



People Counting



Customer Demographic Analysis



Customer Engagement Detection



Table Cleaning Detection

AI CAMERA IN SAFETY

03



PPE and Uniform Detection



Forklift and Vehicle Safety Detection



Fighting Detection



Falls and Slips Detection



Unusual Crowd Detection



Smoke and Fire Detection

CXVIEW GPT BOX

The new era of physical edge AI



- ✓ NEAR-ZERO LATENCY
- 🗄️ DATA SOVEREIGNTY
- 💰 COST EFFICIENCY
- 🔄 BANDWIDTH SAVINGS

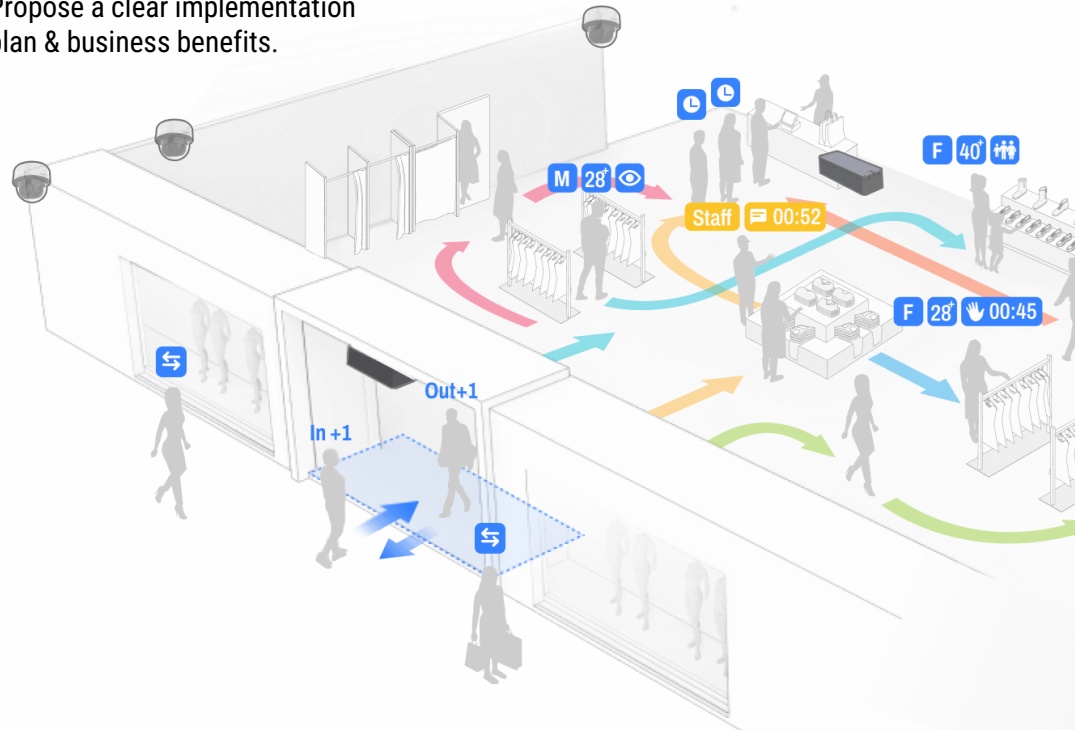
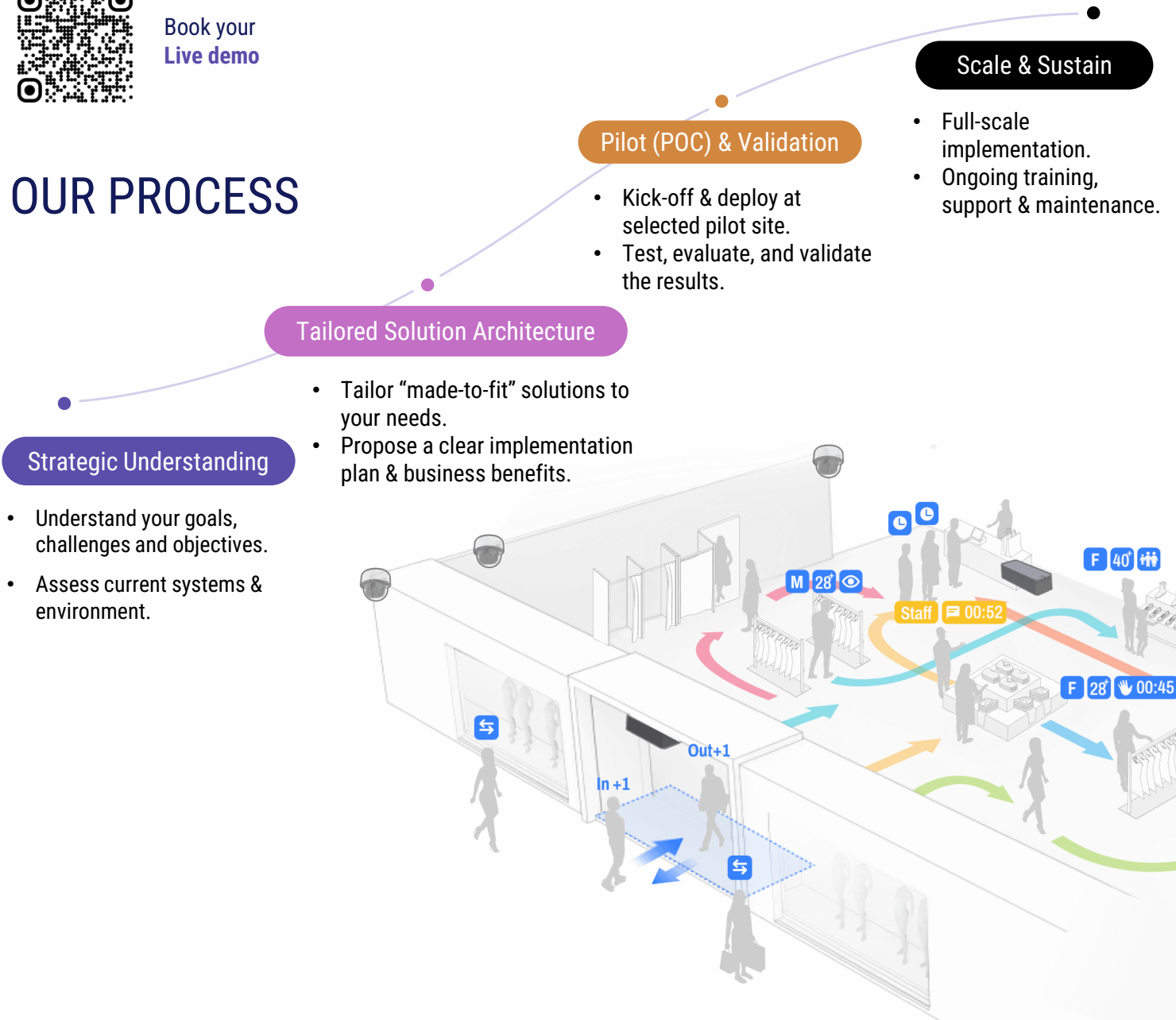
We promise results **within 30 days and ROI in 60 days.** ”

CXVIEW delivers measurable business impact on an aggressive timeline that respects your operational urgency, going beyond mere software deployment.



Book your **Live demo**

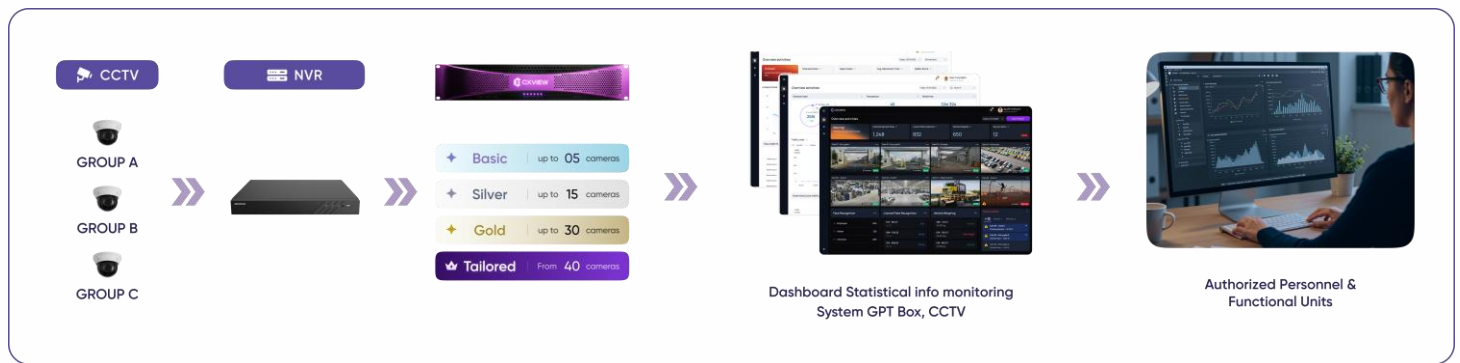
OUR PROCESS



How CXVIEW Delivers the Transformation

CXVIEW delivers an edge intelligence layer that integrates seamlessly with existing CCTV, POS or API systems, and operational dashboards, without requiring infrastructure replacement. A single edge device transforms video streams into actionable operational insights.

Deployment is non disruptive. The solution connects through RTSP, ONVIF, or existing VMS platforms, enabling rapid integration with minimal downtime. All processing runs on premise, ensuring low latency performance, efficient bandwidth usage, and full data control, which are essential for manufacturing and industrial environments.



Customer On - Premise AI Vision Infrastructure

Why a Transformation Partner is Essential

- Most sites already have camera infrastructure, but it is primarily used for post-incident review.
- Operational performance is difficult to validate due to manual, fragmented, and subjective reporting.
- CXVIEW unifies physical infrastructure, business data, and operational workflows into a single, measurable intelligence layer.
- The value extends beyond hardware, delivering real-time alerts, automated evidence, actionable dashboards, and clear ROI tracking.




Core Deployment Benefits

- ✓ **No camera replacement required when streams are available**
- ✓ **On-premise processing supports latency, bandwidth control and data sovereignty**
- ✓ **Automated reports reduce manual debate with employees, vendors and site teams**
- ✓ **Management receives objective before/after performance data for every site**

CXVIEW Transformation Business Use Cases

Real-world scenarios demonstrating **how CXVIEW GPT Box, AI Video Analytics, Real-time Alerts, All-in-One Intelligence Dashboards**, and Automated Reporting transform existing CCTV infrastructure into measurable operational intelligence across Retail, F&B, Convenience store, and Industrial environments.

Retail

- 
Shopping Mall
 Footfall, Heatmap, Dwell time, Flow & Zone Tracking, and Rental Insights Analytics
- 
Supermarket
 Customer Journey Insights, Campaign Analytics, and Real-time Alert & Reporting
- 
Convenience Store Chain
 24/7 Customer Experience, Safety, Staff Performance and Product Interaction

F&B

- 
F&B Store Chain
 Traffic & Conversion Analytics, Heatmap, Dwell time, and Customer Journey Insights
- 
Coffee Chain
 Customer Profile, POS/SKU, Cleanliness and Store-performance Intelligence

Manufacturing

- 
Wood Factory
 Safety, Security, Color Inspection, fire/smoke/fall/intrusion real-time alerts
- 
Furniture Factory
 AI colorimetry QC, Surface Defect Detection, Automated Pass/Fail Classification
- 
Global Coffee Manufacturing
 OCR & Face Recognition, smart PPE, Product counting, Worker Presence Detection
- 
Global Chocolate Factory
 Safety, Security, fire/smoke/intrusion detection, Centralize Intelligence Dashboard
- 
Oil & Gas Facility
 Smart PPE, Face Recognition Access Control, fire/smoke detection, Smart Reporting

Core Promise

Transform existing CCTV from passive recording into live intelligence, automated action and management-ready reporting.

Shopping Mall: Turning 20,000sqm Mall Traffic into Actionable Intelligence

Mall traffic becomes a strategic asset when it is measurable. CXVIEW enables operators to convert visitor flow into leasing power, layout intelligence, and clear tenant value. Instead of relying on assumptions, decisions are supported by real behavioral data across every zone.



Business Objective:

- ✓ Increase rental value in prime areas
- ✓ Improve tenant mix and visitor journey
- ✓ Use data to defend leasing decisions



The Challenges it Faces:

- Leasing decisions rely on assumptions, negotiation leverage, and past experience rather than verified traffic quality
- Tenants challenge location value, creating friction around rent, visibility, and performance
- Limited visibility into visitor behavior, including entry flow, movement patterns, zone attraction, and dwell time
- Low performing zones remain undetected, reducing overall asset efficiency and customer experience
- Premium locations lack objective data to justify pricing and positioning

CXVIEW Solutions

- CXVIEW integrates directly with existing CCTV, NVR, and VMS systems through a single edge intelligence layer
- AI is deployed on top of current video streams using RTSP, ONVIF, or VMS integration, with no infrastructure replacement required
- The platform transforms video into measurable insights, including traffic volume, movement flow, dwell time, heatmaps, demographic signals, and zone performance
- Automated reporting delivers consistent, real-time visibility, replacing manual tracking and fragmented data sources

Shopping Mall: Smart Traffic Analytics, Measurable Impacts and ROI

CXVIEW activates a full suite of behavioral analytics, turning every camera into a source of operational and revenue intelligence across a 20,000 sqm mall.

Traffic Intelligence

- Granular visibility of visitor volume across entrances, corridors, floors, and zones
- Peak patterns, temporal trends, and campaign performance tracking
- Real-time alerts for congestion and service bottlenecks

Behavioral Insights

- Demographic insights to support tenant alignment
- Heatmaps highlighting high-attraction areas and engagement gaps
- Dwell time analysis distinguishing high intent from pass-through traffic

Leasing Analytics

- End-to-end journey mapping across the mall environment
- Identification of high-value zones based on traffic quality and engagement depth
- Data-backed validation for premium rental positioning

Before CXVIEW

- Fragmented visibility with reliance on manual counts and isolated reports
- Extended leasing discussions without objective benchmarks
- Reactive adjustments to layout and operations

After CXVIEW/ Strategic Impacts

- ✓ Higher rental yield driven by validated traffic quality and zone performance
- ✓ Enhanced asset valuation supported by measurable intelligence
- ✓ Accelerated leasing cycles with stronger tenant alignment
- ✓ Transparent performance tracking across campaigns, layout optimization, and tenant strategy

Supermarket: Optimizing Shopper Journey, Marketing ROI & Operational Performance

In supermarket retail, profitability depends on understanding how shoppers move, engage, and convert across the store journey. Real-time visibility into customer behavior, promotion performance, queue conditions, and store operations enables retailers to optimize marketing ROI, improve operational efficiency, and deliver consistent shopping experiences across all locations.



Business Objective:

- ✓ Increase basket size and conversion through shopper behavior insights
- ✓ Optimize shelf execution, product placement, and promotion effectiveness
- ✓ Improve customer experience and reduce queue waiting time
- ✓ Strengthen store safety and reduce shrinkage through real-time monitoring
- ✓ Standardize operations and enable centralized decision-making across all stores



The Challenges it Faces

- Limited visibility into shopper behavior, decision points, and product engagement across departments
- Peak-hour queue congestion reduces checkout efficiency and customer satisfaction
- Inconsistent shelf execution and planogram compliance impact product visibility and campaign ROI
- Delayed response to staff absence, replenishment gaps, and customer assistance needs
- Theft, fraud, and safety incidents are detected reactively rather than in real time
- Manual reporting and fragmented data limit centralized visibility and cross-store decision-making

CXVIEW Solutions

- The CXVIEW GPT Box adds AI intelligence to existing CCTV systems without infrastructure replacement
- AI analyzes shopper movement, shelf engagement, queue flow, and promotion performance to optimize conversion and store execution
- Shelf and planogram analytics identify empty shelves, low-compliance areas, and product visibility gaps
- Queue, waiting-time, and staff assistance analytics improve checkout flow and operational response
- AI detects theft, fraud, unauthorized access, dangerous behavior, smoke, and fire risks in real time
- Centralized dashboards and automated reporting provide real-time, cross-store visibility for benchmarking and decision-making

Supermarket: Smart Shopper Insights. Operational Excellence.

CXVIEW transforms supermarket operations into a measurable intelligence layer across shopper behavior, shelf performance, workforce visibility, and in-store safety, enabling operators to improve conversion, operational consistency, and customer experience at scale.

Shopper Intelligence

- Traffic counting across entrances, aisles, checkout, and other zones
- Customer profiling and demographic insights across time periods
- Customer journey and dwell-time analytics reveal shopping behavior and engagement patterns
- Heatmaps identify high-engagement/low-performing zones for layout optimization
- Campaign analytics measure shopper interaction and conversion impact

Operation Efficiency

- Queue analytics improve checkout flow
- Shelf analytics improve product visibility and merchandising consistency
- Staff assistance/absence alerts improve responsiveness
- Centralized dashboards provide real-time alerts, enabling faster operational response

Safety & Risks Management

- Real-time detection of theft, fraud, dangerous behavior, and unauthorized access
- Early smoke/fire detection improve incident response and store safety
- Centralized monitoring strengthens loss prevention and operational control
- Improved staff and customer safety across all operating hours

Before CXVIEW

- Limited visibility into shopper behavior and product engagement
- Manual monitoring of shelves, queues, and store operations
- Reactive response to theft, safety incidents, and operational disruptions
- Inconsistent execution of promotions and merchandising standards across stores
- No centralized visibility across multiple supermarket locations

After CXVIEW/ Strategic Impacts

- ✓ Increased conversion and basket size through optimized shopper journey and product placement
- ✓ Reduced queue time and improved checkout experience during peak hours
- ✓ Improved shelf compliance and promotion effectiveness across stores
- ✓ Reduced shrinkage and operational risk through proactive monitoring and real-time alerts
- ✓ Faster operational response through automated staff assistance and incident detection

Convenience Store Chain: 24/7 Experience & Safety

In 24/7 convenience retail, performance relies on converting traffic, delivering consistent service, and maintaining safety across all hours. Without real-time data on customer behavior, operations, and risk, decisions remain reactive and inconsistent across stores.



Business Objective:

- ✓ **Increase conversion** from traffic to purchase through customer behavior insights
- ✓ **Optimize product placement and in-store layout** to drive impulse buying across dayparts
- ✓ **Optimize staffing efficiency** across 24/7 operations based on real demand patterns
- ✓ **Enhance safety** and reduce shrinkage with real-time monitoring
- ✓ **Standardize performance** and enable centralized decision-making across all stores



The Challenges it Faces

- High traffic but inconsistent conversion due to limited shopper insight
- Limited insight into in-store movement, product interaction, and engagement zones
- Staffing not aligned with fluctuating 24/7 demand
- Inconsistent performance & service standard across stores with no clear benchmarking
- No centralized view for head office across stores and time periods
- Limited visibility into theft and incidents during late-night operations with real-time alerts

CXVIEW Solutions

- CXVIEW deploys the CXVIEW GPT Box as a unified edge layer, integrating with existing CCTV systems without infrastructure changes
- AI converts video into measurable KPIs, including traffic counting, conversion rate, queue time, customer journey, heatmaps, and staff performance
- Customer journey, queue, and dwell analytics reveal behavior patterns and service gaps across all dayparts
- Heatmaps identify high-engagement zones to optimize layout and product placement
- Demand and peak-hour analysis enable optimized staffing across 24/7 operations
- AI detects suspicious behavior, loitering, and unusual activity, with real-time alerts for immediate response
- Centralized dashboards provide real-time, cross-store visibility for benchmarking and decision-making
- Automated reporting replaces manual processes with continuous, real-time insights

Convenience Stores Chain: Smarter Retail Operations

Dwell time, heatmap, interaction zones and safety behavior alerts for distributed retail operations. CXVIEW creates a consistent, automated intelligence layer across every store in the network, enabling management to monitor, compare and improve performance without increasing supervisory headcount.

Service Improvement

- Traffic counting across entrance, aisle, and checkout zones throughout the day and night
- Real-time queue monitoring
- Customer journey mapping reveals behavior and patterns
- Heatmaps optimize product placement for different shopping missions across time periods
- Consistent service speed and experience across all stores & operating hours

Operation Efficiency

- Centralized dashboard with real-time visibility across all stores and dayparts
- Standardized KPIs for cross-store and time-based benchmarking
- Campaign and promotion analysis across different hours and store formats
- Faster response to operational issues with real-time alerts

Staff Optimization

- Smarter shift scheduling aligned with day, evening, and overnight traffic patterns
- Staff performance visibility across different shifts
- Reduced labor cost through optimized 24/7 staffing
- Enhanced staff safety and confidence, especially during late-night and low-staff shifts



Before CXVIEW

- No visibility into day vs. night performance differences
- Manual shift reporting with inconsistent data
- Reactive staffing and operational decisions
- No real-time detection of theft, disputes, or safety incidents
- No centralized visibility across stores and time periods



After CXVIEW/ Strategic Impacts

- ✓ **Increased conversion** and **basket size** across both peak and late-night periods
- ✓ **Reduced queue time** and **consistent service experience**
- ✓ **Revenue growth** driven by optimized traffic conversion and product placement
- ✓ **Labor cost reduction** through intelligent shift scheduling and staffing optimization
- ✓ **Reduced shrinkage** and operational risk with real-time monitoring and alerts
- ✓ **Centralized visibility** enables faster, data-driven decisions across all stores and time periods

F&B Chain: Maximizing Conversion, Throughput and ROI Across 30 Stores

In an F&B chain, revenue depends on how efficiently traffic is converted into orders across every store. Inefficiencies in queues, staffing, and layout lead to lost sales and inconsistent customer experience. CXVIEW transforms daily operations into measurable, real-time performance insights—improving conversion, service speed, operational consistency, and profitability across the network.



Business Objective:

- ✓ **Increase conversion from footfall to orders** through customer journey insights
- ✓ **Optimize labor cost and staffing efficiency** based on demand patterns
- ✓ **Enhance customer experience** by reducing queue time and improving flow
- ✓ **Maximize store performance** through layout optimization and high-value zone identification
- ✓ **Standardize performance and improve decision-making** with consistent, data-driven insights across stores



The Challenges it Faces

- High foot traffic does not consistently convert into sales due to limited conversion visibility
- Limited insight into queues, waiting time, and service bottlenecks during peak hours
- Staff allocation is not aligned with actual demand, increasing inefficiency and labor cost
- Store layout and counter positioning are not optimized for flow and throughput
- Performance comparison across stores is inconsistent and delayed
- Reporting is manual, fragmented, and time-consuming
- C-level lacks a centralized view of performance across all stores for timely decision-making

CXVIEW Solutions

- CXVIEW deploys the CXVIEW GPT Box as a unified edge layer, integrating with existing CCTV systems without infrastructure changes
- AI converts video into measurable KPIs, including traffic counting, conversion rate, queue time, customer journey, heatmaps, and staff performance
- Queue and dwell time analytics identify bottlenecks to enhance service speed and customer experience
- Demand and peak-hour analysis enable optimized staffing and labor cost control
- Centralized dashboards provide a real-time, cross-store performance view for benchmarking and decision-making

F&B Chain: Smarter Insights. Higher Conversion.

A single operational intelligence view for traffic, conversion, product demand, and workforce optimization.

CXVIEW creates a unified source of truth that connects traffic data to downstream business metrics, enabling real-time visibility into queues, customer journey, and staffing, and empowering leadership to make faster, data-driven decisions across all 30 stores.

Service Improvement

- Traffic counting across entrance, ordering, and pickup zones chain-wide
- Real-time queue monitoring improves service speed during peak hours
- Customer journey mapping reveals behavior and decision patterns
- Heatmaps identify high-engagement zones for layout optimization
- Faster ordering and more consistent service across all stores

Operation Efficiency

- Centralized dashboard with real-time visibility across all 30 stores
- Standardized KPIs for cross-store benchmarking and comparison
- Automated reporting replaces fragmented manual reports
- Campaign analytics explain store performance differences
- Unified real-time insights enable faster decision-making

Staff Optimization

- Peak-hour and demand analysis align staffing with actual traffic patterns
- Smarter shift scheduling reduces overstaffing and understaffing
- Cross-store performance visibility highlights best-performing teams and gaps
- Improved labor efficiency through data-driven workforce planning



Before CXVIEW

- Store performance managed in isolation with no centralized visibility
- Manual reporting, inconsistent data, and delayed insights
- Limited understanding of customer behavior and conversion
- Inefficient staffing and inconsistent service quality across locations



After CXVIEW/ Strategic Impacts

- ✓ **Revenue uplift** through improved conversion, faster queue response, and better traffic utilization
- ✓ **Reduced staff OPEX** through optimized staffing and data-driven shift planning
- ✓ **Reduced queue time** and more **consistent customer experience** across all stores
- ✓ **Centralized visibility** enables faster, more confident decision-making
- ✓ **Standardized performance** and operational consistency across the 30-store network

Coffee Chain: Customer Engagement & Marketing ROI

In coffee retail, performance depends on how effectively stores convert traffic into engagement, dwell time, repeat visits, and higher basket value. Service speed, seating turnover, product visibility, and campaign execution directly influence customer experience and revenue across every location. Without real-time behavioral insights, operations and marketing decisions remain reactive and inconsistent across stores.



Business Objective:

- ✓ **Increase conversion** and **basket value** through customer behavior insights
- ✓ **Optimize labor** cost and **staffing efficiency** based on demand patterns
- ✓ Improve **customer engagement, dwell quality, and in-store experience**
- ✓ Optimize **service flow, seating turnover, and operational responsiveness**
- ✓ Measure **campaign effectiveness** and **customer engagement** across stores
- ✓ Enable **centralized, data-driven** operational and marketing decisions



The Challenges it Faces

- Limited visibility into customer behavior, seating patterns, and product interaction
- Queue congestion and uncleared tables reduce service flow and customer experience
- Store layout and promotional displays are not optimized for engagement and throughput
- Campaign performance varies across stores with limited measurable insights
- Manual reporting delays operational and marketing visibility across locations
- Management lacks centralized, real-time insights into customer and store performance

CXVIEW Solutions

- AI analyzes people counting, customer demographics, dwell time, heatmaps, customer journey, and product engagement
- Customer journey analytics reveal behavior patterns across ordering, seating, pickup, and promotional zones
- Real-time alerts identify queue congestion, uncleared tables, crowd buildup, and operational bottlenecks
- Heatmaps and engagement analytics optimize seating layout, product placement, and promotional positioning
- Campaign analytics measure customer engagement and conversion performance across stores and dayparts
- AI-driven recommendations support staffing optimization, service responsiveness, and customer engagement strategies
- Centralized dashboards and automated reporting provide real-time visibility across all locations

Coffee Chain: Smarter Customer Insights. Better Experience

CXVIEW transforms coffee chain operations into a measurable intelligence layer across customer engagement, service execution, marketing performance, and operational visibility, helping operators improve conversion, customer experience, and store consistency at scale.

↑ Customer Engagement

- People counting across entrance, ordering, seating, and pickup zones
- Customer demographic/ profiling insights across stores and dayparts
- Heatmaps identify high-engagement seating and promotional areas
- Product engagement analytics reveal customer attention and interaction patterns
- Dwell-time analytics identify high-engagement and low-conversion behavior

⚙️ Operation Performance

- Real-time queue alerts improve service speed and customer flow
- Table cleanliness alerts improve seating turnover/ responsiveness
- AI-driven recommendations support staffing efficiency and throughput optimization
- Centralized dashboards provide real-time cross-store operational visibility
- Automated reporting replaces fragmented manual operational tracking

📊 Campaign Analytics

- Campaign analytics compare engagement and conversion across stores and time periods
- Customer journey insights optimize promotional placement and in-store layout
- Standardized KPIs improve benchmarking across locations and store formats
- Faster decision-making through centralized, real-time visibility



Before CXVIEW

- Limited visibility into customer engagement and dwell behavior
- Queue congestion and uncleared tables reduce operational efficiency
- Campaign performance relies on fragmented reports and delayed insights
- Manual reporting creates inconsistent operational visibility across stores
- No centralized real-time view of customer and store performance



After CXVIEW/ Strategic Impacts

- ✓ Increased conversion and customer spend through behavior insights
- ✓ Faster service and improved seating turnover
- ✓ Higher marketing ROI through measurable engagement analytics
- ✓ Optimized staffing and operational efficiency with AI-driven recommendations
- ✓ Faster decisions through centralized real-time visibility
- ✓ More consistent store performance and customer experience across the chain

Wood Factory: AI Safety Monitoring & Operational Automation

In wood manufacturing, large production floors, warehouse areas, loading zones, and worker movement create continuous safety and operational risks. Traditional CCTV systems provide passive recording, but rely heavily on manual monitoring and scheduled patrols, leaving critical blind windows between checks. Without real-time detection and automated alerts, incident response remains delayed and operational visibility fragmented.



Business Objective:

- ✓ Automate workplace safety monitoring across production and warehouse zones
- ✓ Reduce manual patrol workload and improve supervision efficiency
- ✓ Improve incident response speed with real-time alerts and automated evidence
- ✓ Strengthen workplace safety, quality consistency, and operational compliance across all shifts
- ✓ Enable centralized visibility into factory safety and operational performance



The Challenges it Faces:

- Manual patrol rounds create blind windows between safety checks
- Manual wood color inspection creates inconsistent quality control
- Safety incidents such as falls, smoke/fire, intrusion, and abnormal behavior are detected too late
- Guards and supervisors spend excessive time on routine monitoring instead of incident response
- Incident reporting is manual, inconsistent, and difficult to verify objectively
- Limited visibility into restricted-area access and after-hours activity
- Management lacks centralized, real-time reporting on safety and operational conditions

CXVIEW Solutions

- CXVIEW activates AI safety monitoring on existing factory CCTV infrastructure without operational disruption
- AI detects falls, smoke/fire, intrusion, unauthorized access, and abnormal activity in real time
- AI-powered wood color inspection improves production quality consistency
- Automated alerts enable immediate response across production, warehouse, and loading zones
- AI-powered monitoring reduces dependency on manual patrol and continuous screen watching
- Automated incident logs and evidence reporting improve audit readiness and investigation accuracy
- Centralized dashboards provide real-time visibility into factory safety and supervision quality

Wood Factory: From Passive CCTV to Real-time Factory Safety Intelligence

CXVIEW transforms passive factory CCTV into a real-time AI safety and operational monitoring system, enabling continuous supervision, automated alerts, and measurable improvements in workplace safety and operational control.

Safety Monitoring

- Real-time fall detection across worker movement and high-risk zones
- Early smoke/ fire detection for faster emergency response
- Intrusion and unauthorized-access monitoring across restricted areas
- Abnormal behavior detection to identify operational and safety risks early

Operational Automation

- Automated alerts reduce reliance on manual patrol and continuous screen monitoring
- AI-generated incident logs improve reporting consistency and evidence tracking
- Centralized dashboards provide real-time factory-wide visibility
- Faster escalation and response to operational incidents across all shifts

Workplace Assurance

- Improved workplace safety and confidence across production teams
- Better compliance readiness through automated reporting and audit evidence
- Reduced supervision burden for guards and operational managers
- More consistent safety coverage across the entire facility

Before CXVIEW

- Manual patrols create delayed incident detection and response gaps
- Wood color validation relies on manual inspection and subject judgment
- CCTV used mainly for post-event playback rather than proactive monitoring
- Safety reporting is manual, fragmented, and difficult to validate
- Limited visibility into after-hours activity and restricted-area access
- No centralized real-time view of factory safety conditions

After CXVIEW/ Strategic Impacts

- Reduced manual patrol workload and supervision overhead
- Improve production quality consistency
- Faster response to falls, fire/smoke, and operational incidents
- Lower operational and workplace safety risk through real-time monitoring
- Improved audit readiness with automated incident evidence and reporting
- Stronger factory-wide visibility and operational control across all shifts

Furniture Factory: AI Color Quality Control & Digital QC Automation

In export furniture manufacturing, color consistency is critical to product quality and brand reputation. Manual inspection of natural oak wood finishing depends heavily on lighting conditions, operator experience, fatigue, and subjective judgment, creating inconsistent QC outcomes across batches. Without standardized digital validation, factories face increased rework, export returns, and limited traceability across the production process.



Business Objective:

- ✓ Eliminate color inconsistency across production batches
- ✓ Reduce export returns and quality-related rework
- ✓ Automate QC inspection and pass/fail validation
- ✓ Improve digital traceability and reporting accuracy
- ✓ Standardize export-grade quality control across production lines



The Challenges it Faces:

- Manual painting creates inconsistent color finishing across natural oak wood batches
- Human QC inspection depends on lighting, fatigue, experience, and subjective judgment
- Export-grade furniture requires strict color consistency and surface quality compliance
- Surface defects and color deviations are difficult to detect consistently at scale
- Quality issues discovered after shipment create costly returns and reputation risk
- QC reporting and inspection records remain manual and fragmented
- Management lacks centralized visibility into production quality trends and defect patterns

CXVIEW Solutions

- High-resolution industrial cameras connected to the CXVIEW GPT Box monitor finishing and inspection lines in real time
- AI Colorimetry Quality Control compares wood finish against approved references and tolerance thresholds
- AI detects surface defects, pattern inconsistencies, and color deviations across each product unit
- Automated pass/fail classification removes subjective QC judgment before packing and shipment
- Real-time visual alerts highlight defect zones for immediate inspection and correction
- Centralized dashboards provide visibility into defect trends, QC performance, and production consistency
- Automated reports create digital traceability across batches, inspections, and export records

Furniture Factory: AI-Driven Precision QC for Export-Grade Furniture Manufacturing

CXVIEW transforms manual furniture inspection into a standardized AI quality control system across color validation, surface inspection, defect detection, and digital traceability, improving export consistency, operational efficiency, and production confidence at scale.

AI Color Quality Control

- Real-time color validation against approved wood finish references and tolerance levels
- Consistent AI-driven inspection independent of lighting and operator conditions
- Automated detection of color variation across production batches
- Improved export-grade finishing consistency across product lines

Surface Detection

- AI detects surface defects, texture inconsistencies, and finishing abnormalities
- Visual highlighting of defect zones for faster correction and verification
- Reduced dependency on subjective manual inspection
- Faster identification of production quality deviations

Automated QC & Traceability

- Automated pass/fail classification before packing and shipment
- Centralized dashboards provide real-time QC visibility across production lines
- Automated reporting improves traceability and inspection consistency
- Digital QC records support audit readiness and export compliance

Before CXVIEW

- QC inspection depends heavily on manual observation and subjective judgment
- Lighting conditions and operator fatigue create inconsistent inspection outcomes
- Surface defects and color deviations may pass undetected during production
- Export returns and rework increase operational cost and reputation risk
- QC reporting and traceability remain fragmented and difficult to standardize

After CXVIEW/ Strategic Impacts

- Improved color consistency and export-grade quality across production batches
- Reduced export returns, rework, and quality-related operational cost
- Faster and more standardized QC inspection through AI automation
- Improved traceability with automated QC reporting and digital inspection records
- Reduced dependency on manual inspection and operator subjectivity
- Stronger production visibility and quality control across manufacturing operations

Global Coffee Manufacturing: AI Smart Factory Transformation

In large-scale coffee manufacturing, operational scale, workforce safety, logistics flow, and production control must operate with precision across 24/7 environments. Manual monitoring and fragmented systems create security blind spots, inconsistent PPE enforcement, delayed incident response, and limited production visibility. Real-time AI automation is critical to maintaining secure, efficient, and scalable factory operations.



Business Objective:

- ✓ Strengthen factory security and logistics control
- ✓ Enforce PPE compliance and improve workplace safety
- ✓ Automate access verification and restricted-area monitoring
- ✓ Improve production visibility and counting accuracy
- ✓ Enable centralized, real-time operational intelligence



The Challenges it Faces:

- Manual vehicle and personnel verification slows operations and increases security risk
- PPE compliance and restricted-area monitoring depend heavily on manual supervision
- Intrusion, fence climbing, and unauthorized access are difficult to detect in real time
- Fall incidents and operational disruptions create delayed response risks
- Product counting and production tracking remain inconsistent across lines
- Limited visibility into worker presence and prolonged absence from assigned work areas
- Fragmented systems limit centralized, real-time visibility across factory operations

CXVIEW Solutions

- CXVIEW GPT Box transforms existing CCTV infrastructure into a real-time AI smart factory platform
- OCR and Face Recognition automate vehicle access, driver verification, and workforce authentication
- Smart PPE detection validates helmets, vests, gloves, and safety compliance before zone entry
- AI detects intrusion, fence climbing, unauthorized access, and abnormal activity in real time
- Fall detection improves emergency response across production and warehouse environments
- AI-powered product counting improves inventory visibility and production tracking accuracy
- AI monitors worker presence and detects prolonged absence from assigned work areas
- Centralized dashboards and automated reporting provide real-time factory-wide operational visibility

Global Coffee Manufacturing: Integrated Real-time Factory Intelligence

CXVIEW unifies factory security, workforce safety, logistics monitoring, and production visibility into All-in-One Intelligence Dashboard for scalable manufacturing operations.

🌟 Access Control & Security

- Automated vehicle and workforce verification through OCR and Face Recognition
- Real-time intrusion, fence climbing, and restricted-area detection
- Faster response through automated security alerts and monitoring
- Reduced dependency on manual gate checks and CCTV supervision

⚙️ Workplace Safety

- Smart PPE detection validates safety compliance before zone access
- Fall detection improves emergency response time
- Improved workforce safety visibility across all shifts
- Automated alerts reduce delayed incident response
- Real-time worker monitoring identifies prolonged absence from assigned work zones

📊 Production Visibility

- AI-powered product counting improves tracking accuracy across production lines
- Real-time visibility identifies bottlenecks and operational disruptions faster
- Centralized dashboards unify logistics, safety, and production KPIs
- Automated reporting replaces fragmented manual records

🚫 Before CXVIEW

- Security, PPE enforcement, and production monitoring rely heavily on manual processes
- Intrusion and safety incidents may not be detected in real time
- Production tracking and reporting remain fragmented across departments
- Management lacks centralized operational visibility across factory operations

✅ After CXVIEW/ Strategic Impacts

- Improved factory security and workforce safety
- Faster response to intrusion, safety incidents, and operational disruptions
- Improved production tracking accuracy and operational visibility
- Reduced manual monitoring workload across factory operations
- Improved workforce discipline and operational visibility across production areas
- Centralized operational intelligence improves factory-wide decision-making

Global Chocolate Factory: AI Safety Supervision & Production Intelligence

In chocolate manufacturing, production continuity depends on stable temperature control, workforce coordination, and continuous safety supervision across roasting and processing operations. High-temperature machinery, smoke risk, staffing disruption, and delayed incident response can impact product quality, operational stability, and workplace safety.



- Business Objective:**
- ✓ Strengthen safety monitoring across high-temperature production environments
 - ✓ Improve workforce continuity and production line supervision
 - ✓ Detect smoke, fire risk, and operational anomalies in real time
 - ✓ Reduce production disruption through proactive operational monitoring



The Challenges it Faces:

- High-temperature roasting and processing areas create continuous fire and safety risk
- Manual supervision creates blind spots across production and operational zones
- Workforce absence and staffing disruption impact production continuity and cadence
- Safety incidents and operational anomalies may not be detected early enough
- Coordination between production, safety, and operations teams remains fragmented
- CCTV is used mainly for recording rather than proactive factory supervision
- Management lacks centralized, real-time visibility into factory operations and safety conditions

CXVIEW Solutions

- CXVIEW transforms existing CCTV into a real-time AI supervision platform for chocolate manufacturing
- AI monitors high-temperature machinery, smoke anomalies, and fire-risk conditions across production zones
- Worker presence monitoring improves staffing continuity and production cadence
- AI detects falls, intrusion, unauthorized access, and abnormal activity in real time
- Automated alerts accelerate response to safety and operational incidents
- Centralized dashboards provide real-time visibility across production, safety, and operations
- Automated reporting creates digital supervision history and operational traceability

Global Chocolate Factory: Integrated Production Safety & Operational Intelligence

CXVIEW transforms passive factory CCTV into an AI-driven supervision and operational intelligence system, improving production continuity, workforce coordination, safety response, and operational visibility across chocolate manufacturing environments.

High Temperature Safety

- AI monitors roasting and high-temperature production zones
- Early smoke and fire-risk detection across critical machinery areas
- Real-time alerts improve response to unsafe operating conditions
- Stronger safety visibility across sensitive production environments

Production Line Supervision

- Worker presence monitoring improves production continuity and cadence
- AI detects prolonged absence from assigned work areas
- Real-time visibility identifies disruption risks earlier
- Improved coordination across production operations

Health & Safety Monitoring

- Fall detection improves emergency response across production zones
- Intrusion and restricted-area monitoring strengthen factory safety control
- Automated alerts accelerate response across all shifts
- Reduced dependency on manual CCTV supervision and patrols

Operational Intelligence

- Centralized dashboards unify production, safety, and workforce visibility
- Automated reporting replaces fragmented supervision records
- Real-time insights improve factory-wide decision-making
- Digital supervision history supports audit readiness and operational review

Before CXVIEW

- CCTV used mainly for recording with manual safety supervision and patrols
- Delayed response to smoke, fire-risk, and operational incidents
- Limited visibility into staffing continuity and production-line coordination
- Fragmented supervision between production, safety, and operations teams
- No centralized real-time view of factory safety and operational performance

After CXVIEW/ Strategic Impacts

- Faster smoke and fire-risk detection across production zones
- Improved production continuity through workforce monitoring
- Reduced operational disruption with proactive AI alerts
- Stronger workforce coordination and operational visibility
- Reduced dependency on manual supervision and patrols
- Accelerated smart factory and digital manufacturing transformation

Oil & Gas Facility: Intelligence Security, Access Control & Risk Prevention

In oil and gas operations, PPE non-compliance, unauthorized access, smoke/fire incidents, and delayed response create major operational and safety risks. Large industrial sites require continuous AI monitoring beyond traditional CCTV and manual guard operations to maintain real-time visibility and operational control.



Business Objective:

- ✓ Strengthen workforce safety and PPE compliance across high-risk operational zones
- ✓ Prevent fire, smoke, intrusion, and unauthorized access through real-time AI detection
- ✓ Improve incident response speed and reduce operational security risk
- ✓ Reduce dependency on manual gate checks and continuous CCTV monitoring
- ✓ Enable centralized visibility across site security and safety operations



The Challenges it Faces:

- Manual PPE checks create inconsistent safety compliance at entry points
- Fire and smoke incidents may not be detected early enough in high-risk zones
- Unauthorized access and perimeter intrusion create major operational and safety risks
- Large industrial areas create blind spots between patrol and monitoring cycles
- Security teams rely heavily on manual CCTV monitoring and guard observation
- Incident reporting and evidence collection remain fragmented and delayed
- Management lacks centralized, real-time visibility into site-wide safety conditions

CXVIEW Solutions

- Smart PPE detection validates helmet, vest, mask, and safety gear compliance before entry approval
- AI-powered face recognition enables automated identity verification and secure gate access
- Early smoke and fire detection enable faster response before escalation in high-risk environments
- AI detects intrusion, unauthorized access, fence climbing, and abnormal activity in real time
- Automated alerts accelerate emergency response across restricted and operational zones
- Centralized dashboards provide real-time visibility into safety, security, and workforce activity
- Automated evidence logs improve compliance reporting and incident investigation accuracy

Oil & Gas Facility: AI Safety & Security Monitoring for High-Risk Industrial Operations

CXVIEW transforms passive security monitoring into a real time AI security and risk prevention platform with automated access control, proactive threat detection, and continuous operational visibility across oil and gas facilities.

Safety Compliance & Risk Prevention

- Smart PPE detection automates workforce safety compliance at entry points
- Face recognition enables secure and controlled workforce access
- Early smoke and fire detection improve emergency response time
- Reduced manual gate verification and safety enforcement workload

Security Monitoring

- Real-time intrusion and unauthorized-access detection across restricted zones
- Fence and wall-climbing detection strengthen perimeter protection
- AI detects abnormal activity and suspicious movement patterns early
- Automated alerts accelerate security and emergency response

Before CXVIEW

- PPE compliance and safety enforcement depend heavily on manual checks
- Fire and smoke incidents may not be identified early in critical areas
- Security incidents detected only after manual review or patrol inspection
- Limited visibility into perimeter intrusion and restricted-area activity
- CCTV monitoring depends heavily on guards and continuous screen watching
- No centralized real-time view of facility-wide security conditions

After CXVIEW/ Strategic Impacts

- Improved PPE compliance and workforce safety across high-risk zones
- Faster detection and response to smoke, fire, and security incidents
- Reduced operational risk through proactive AI monitoring and alerting
- Reduced guard workload through automated access control and surveillance
- Stronger audit readiness with automated incident evidence and compliance reporting
- Centralized visibility improves site-wide operational control and safety management

The Strategic Message for Clients and Partners

CXVIEW is not only an AI box. It is an AI transformation journey partner that turns physical sites into measurable business systems. **Before CXVIEW, CCTV is mostly a conservative recording tool. After CXVIEW, the same infrastructure becomes a real-time intelligence layer delivering alerts, automated action, objective reports and business performance visualization** without requiring clients to replace a single camera.



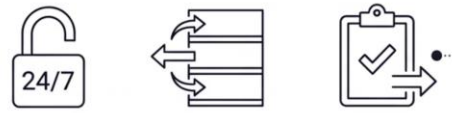
RETAIL & MALLS: Optimize layout with footfall and dwell time insights. Enhance conversions using heatmap data.



F&B & COFFEE CHAINS: Respond to queues with profile analytics and POS data. Streamline staffing.



INDUSTRIAL & O&G: Improve safety with PPE compliance and hazard alerts. Reduce patrol needs and automate gates.



C-STORES & SUPERMARKETS: Analyze interaction zones for better placement and product engagement. Use 24/7 data for security.

Executive ROI Language

Revenue

Better conversion, better marketing campaign measurement, better rental or product-zone monetization across every site type.

Cost

Reduced manual patrols, improved staff allocation and lower supervisory burden, freeing teams for higher-value work.

Risk

Faster safety and security response with stronger compliance evidence for EHS, audit and regulatory requirements.

Management Quality

Fewer manual debates, stronger dashboards and reliable before/after reporting that drives confident, evidence-based decisions.

"CXVIEW transforms existing cameras into a real-time intelligence system that drives revenue, reduces cost, protects people and eliminates operational blind spots."

INDUSTRIES WE SERVE



Retail & Service



Industrial
Manufacturing



Warehouse &
Logistics



Education



Healthcare



Hospitality



Home



Where Vision Drives Impacts

Connect with us to explore how AI can transform your operations.



www.cxview.ai



info@cxview.ai



+84 77 800 3426



G Floor, City House Building, 485B Nguyen Dinh Chieu Street , Ban Co Ward, District 3, HCMC



www.facebook.com/cxview



www.linkedin.com/company/cxview-ai