

Computer Vision Platform

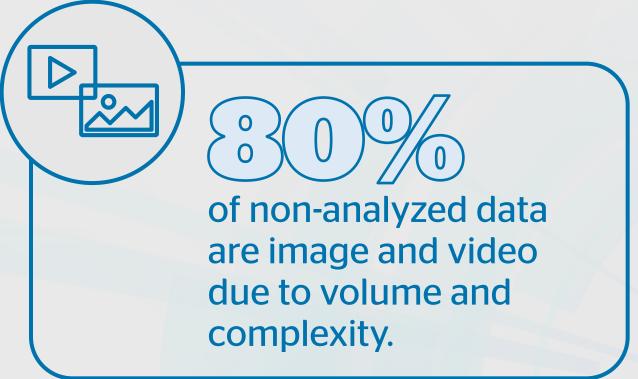
Smart vision in the wink of an eye





What is the potential of video and image data analytics?



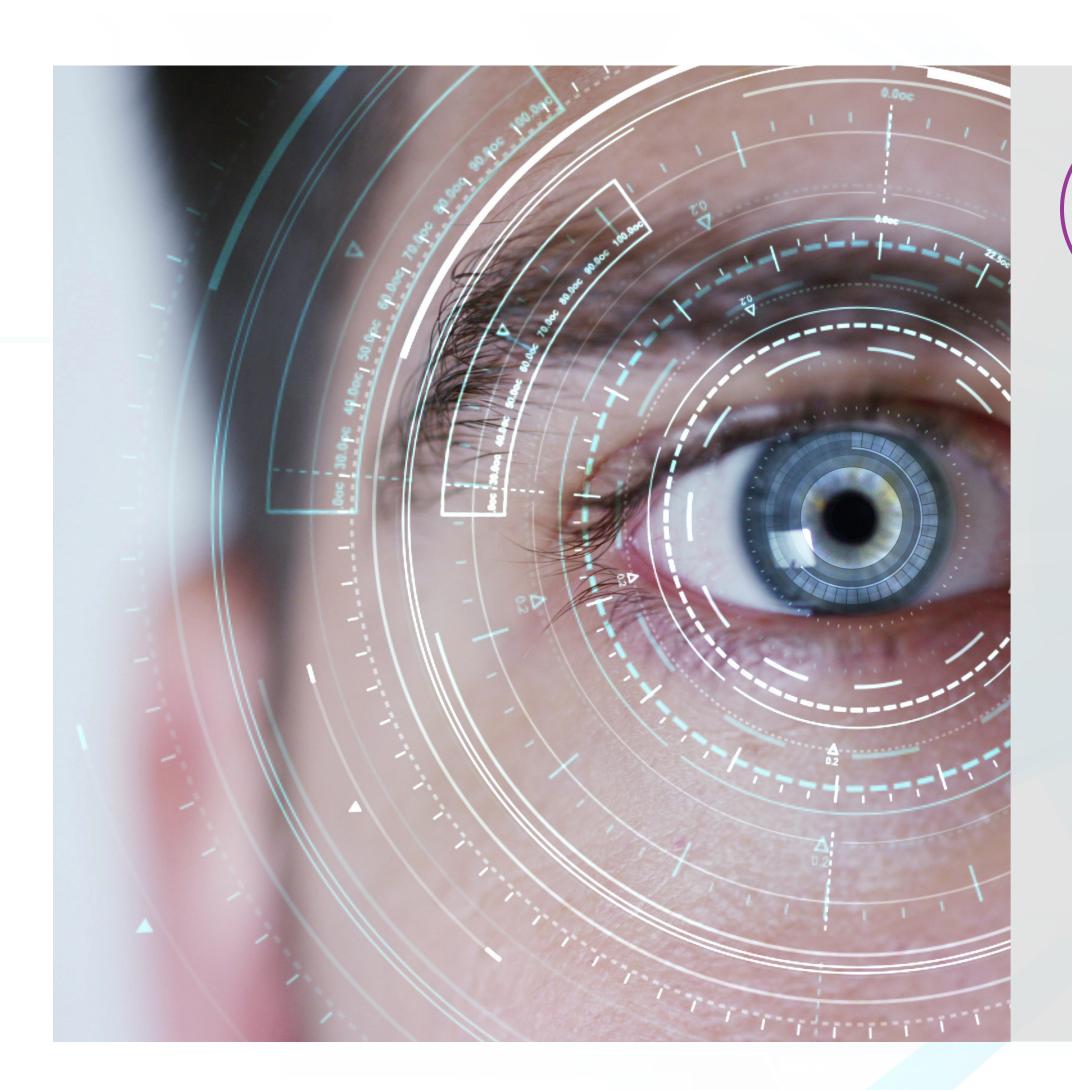


Today, 95% of data is non-analyzed and 80% of this non analyzed data are images and videos. Analyzing this complex and voluminous data in real time can be a burden. The lack of video analysis prevent full end-to-end data analytics in use cases relevant for most industries for example:

- Traffic optimization by analyzing video surveillance streams in the cities to reduce pollution, reduce traffic jams, avoid car accidents
- Quality control by detecting defects with high quality image & video analysis
- Healthcare: detect early-stage cancer with computer vision algorithms applied on X-ray
- Transports: detect abandoned baggage and find the owner through multi camera video analytic & tracking



Computer vision: Why it matters?





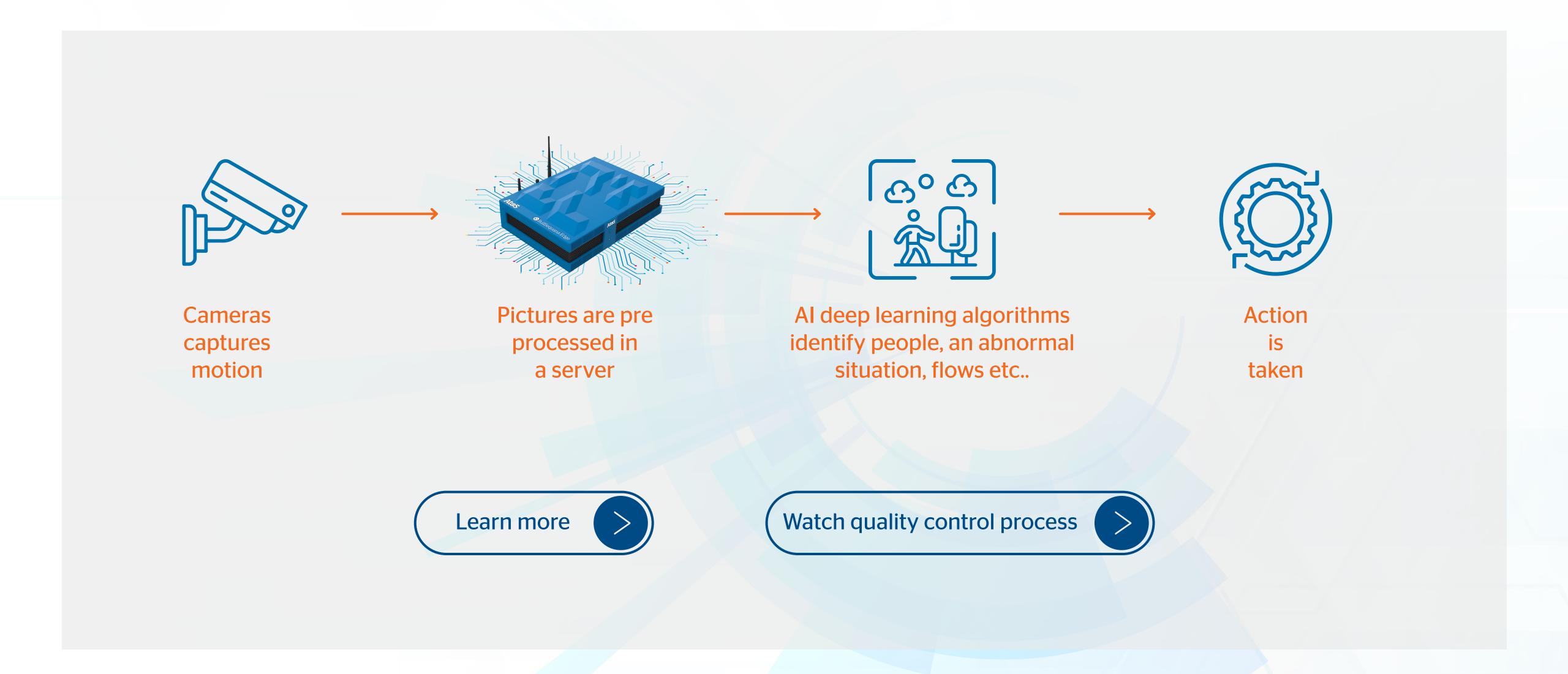
of video/image content captured for enterprise purposes will be analyzed by machines rather than humans.

Computer vision is the data science field, in which deep learning Al algorithms are trained to recognize events and trigger automatic alerts.

To process massive and complex data in real time, computer vision relies on technology high compute capacities enabled by GPUs (graphics processing units).

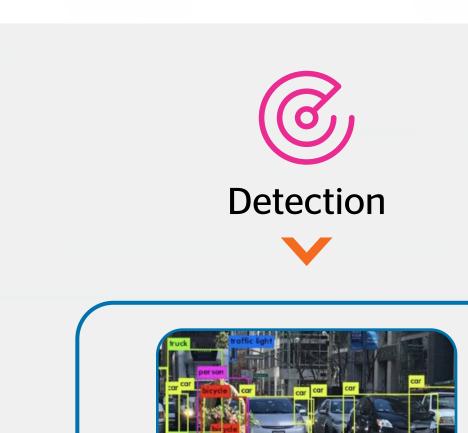
Today, computer vision is a pre-requisite to analyze the massive flow of video and images. In the next two years, 99% of video/image content captured for enterprise purposes will be analyzed by machines rather than humans.

How does computer vision work?



Computer vision model types

Al deep learning algorithms can be classified in four main purposes for infinite use cases:



Quality control
Default detection
Intrusion detection
Event detection
Covid mask detection

Demo example







Person searching
Product localization in
storage or store

Demo example

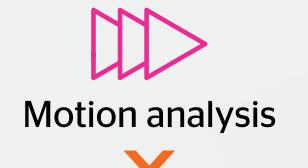


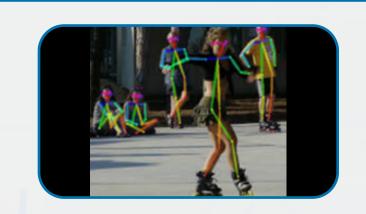


Facial recognition

Object recognition

Demo example





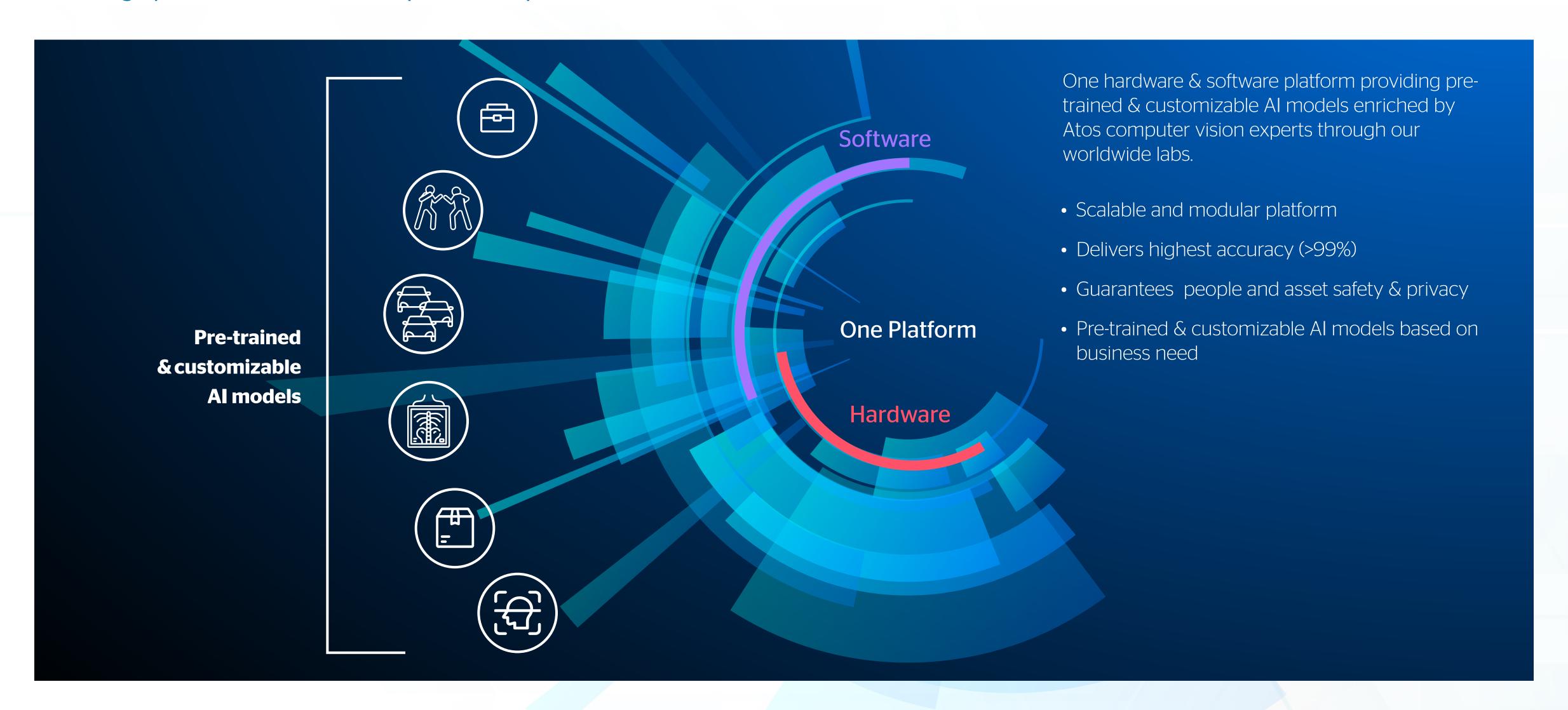
Person tracking
Flow management
Crowd management
Customer path
in retail store

Demo example



Computer Vision Platform

The highly scalable end-to-end computer vision platform

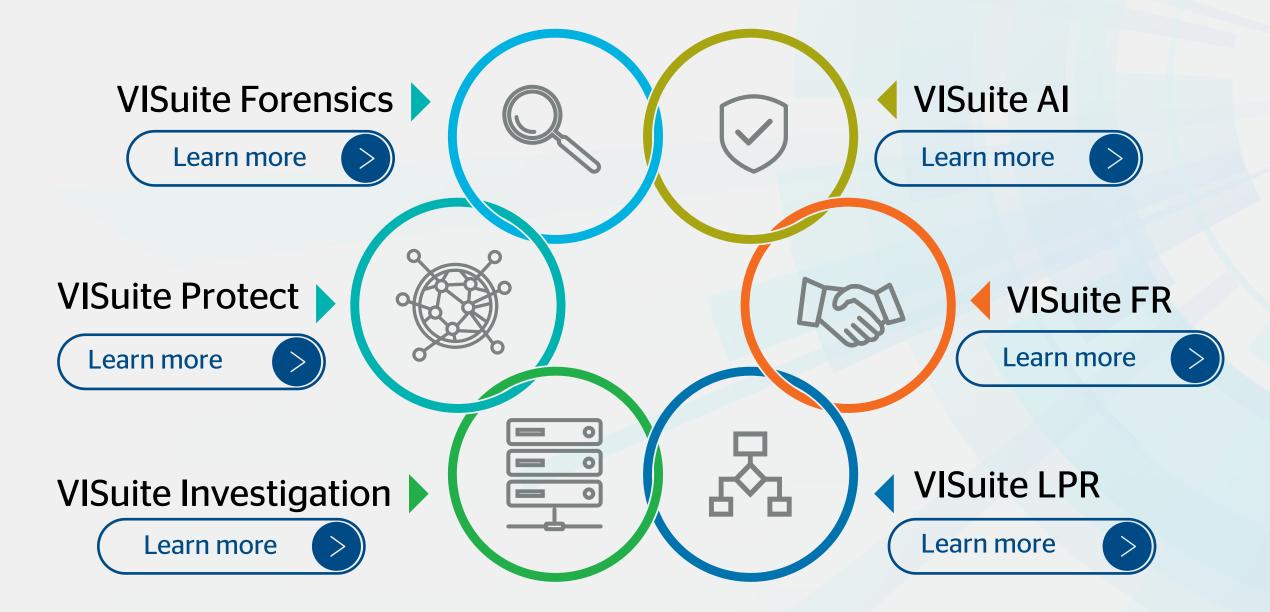


VISuite



VISuite empowers automation in CCTV applications through premium high end video analytics for live response and forensic investigations. It has been successfully deployed in mission critical solutions globally, across multiple verticals. VISuite is at the forefront of the Artificial Intelligence revolution backed by strong global patents.



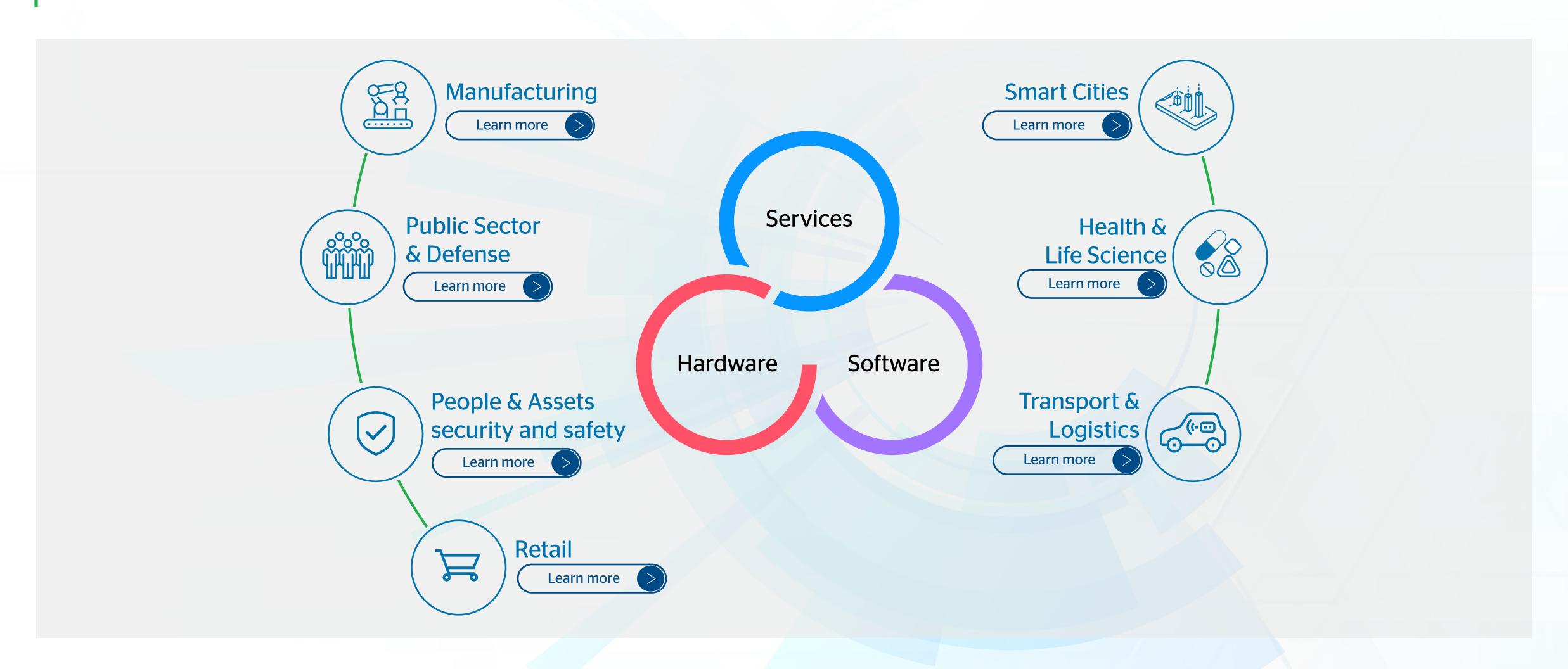




Full range of edge computing servers from edge datacenter/cloud to far edge

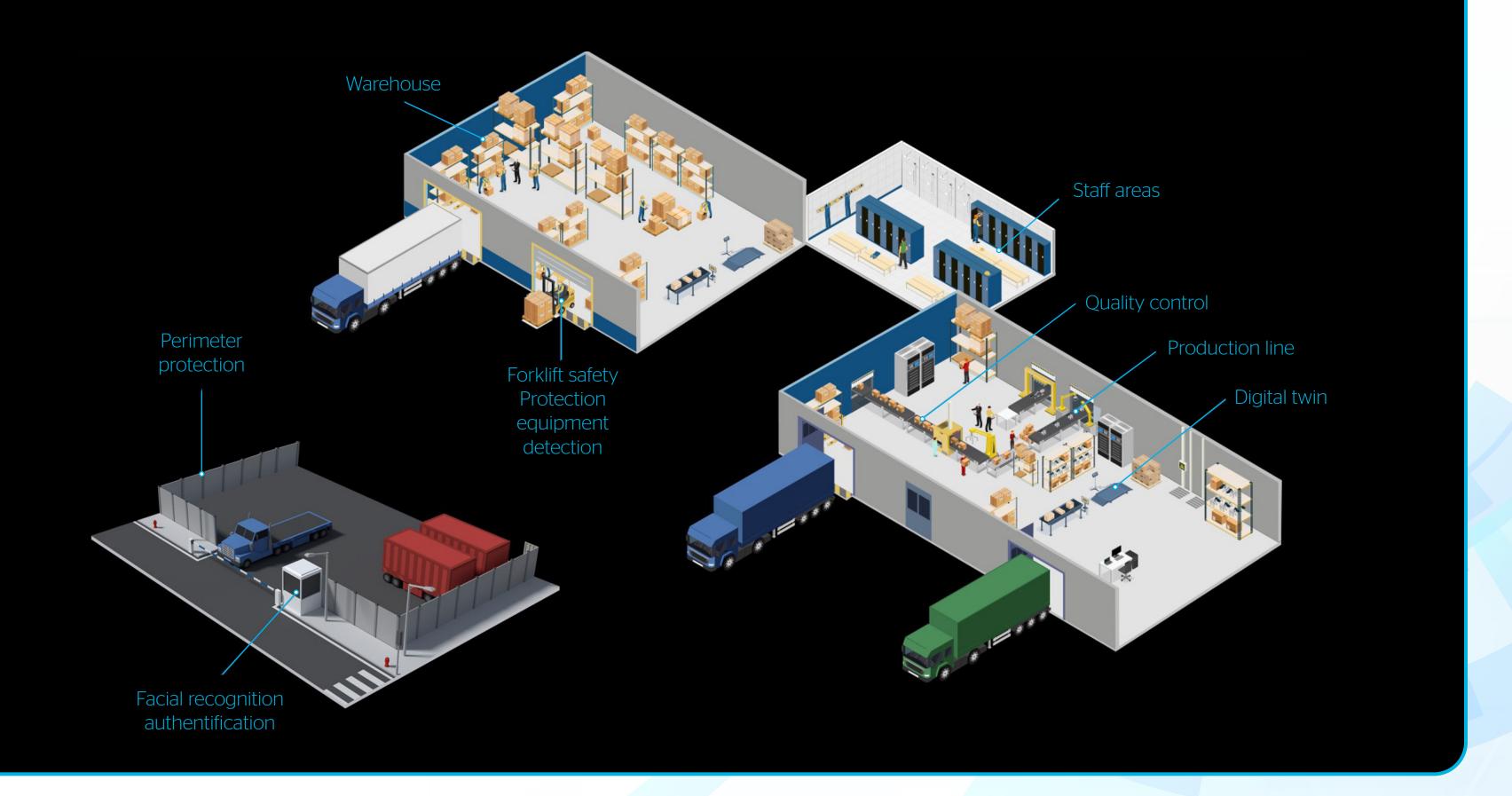


Atos is the first highly scalable end-to-end video analytics platform designed for a smarter and safer world.



Manufacturing

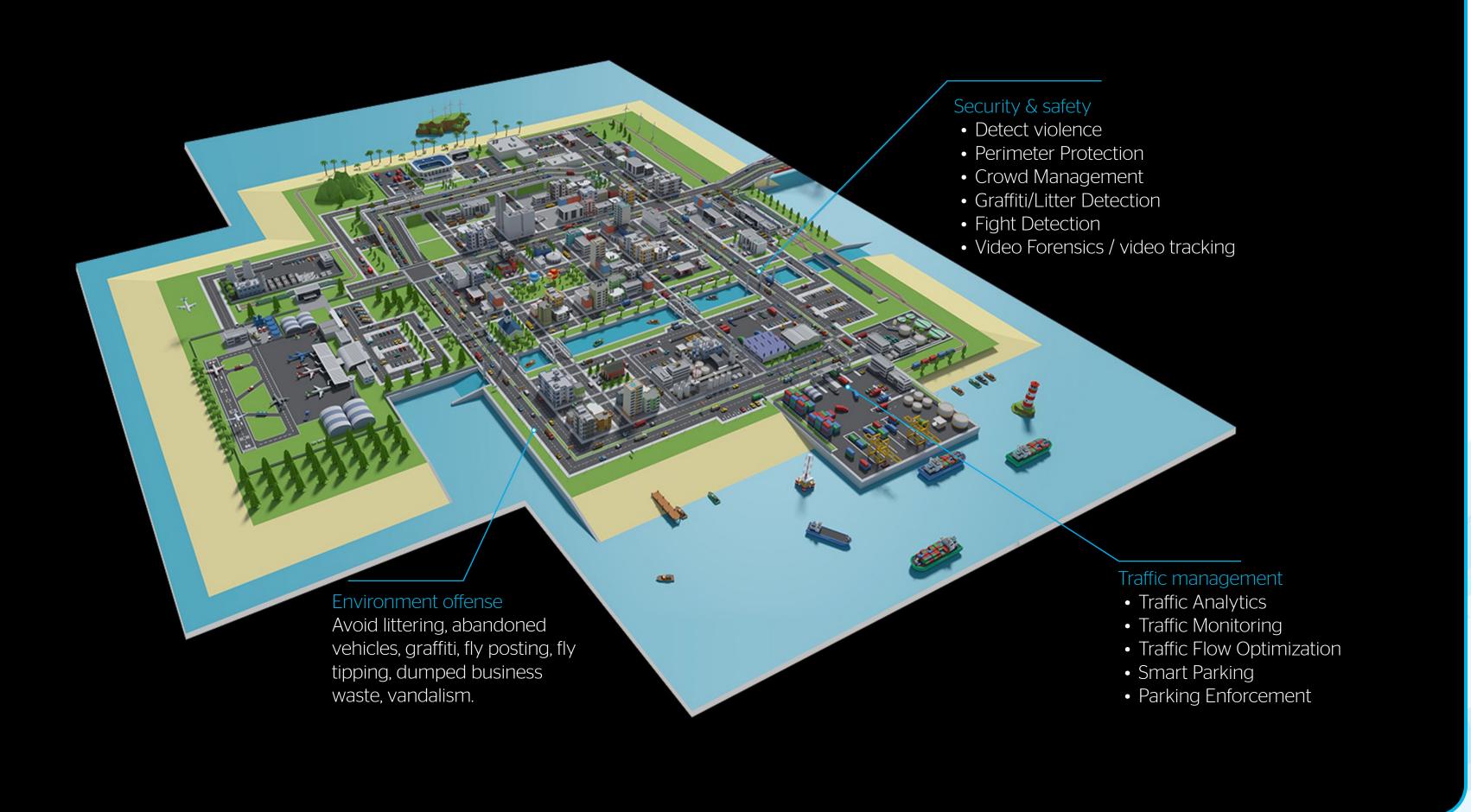
Combining human experience, insight, and AI techniques, manufacturers are discovering new ways to differentiate themselves while driving down costs, protecting employees and increasing margins. Over the last 5 years, manufacturers drove massive data collection, major progress were made on the production line, however drivers of productivity (quality, time, automation, etc.) is still scarce. By providing real time analytics, Atos Computer Vision Platform allows manufacturers to increase and improve quality control, ensure employees safety, improve development of products and production, protect site and assets and optimize inventory.



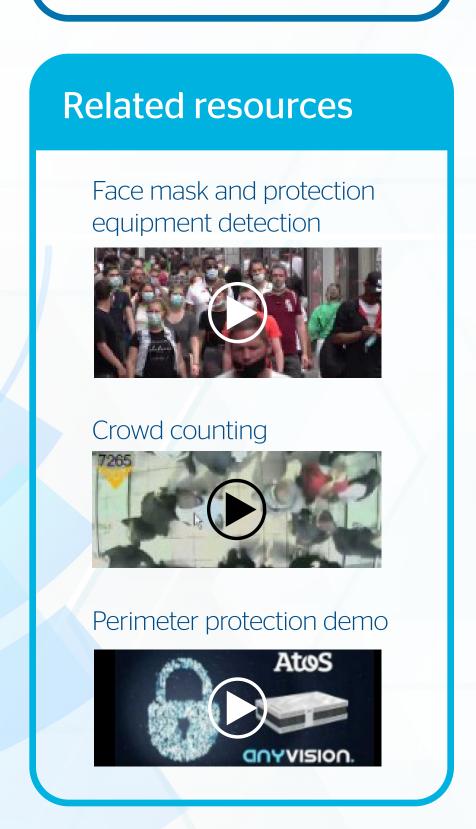


Smart city

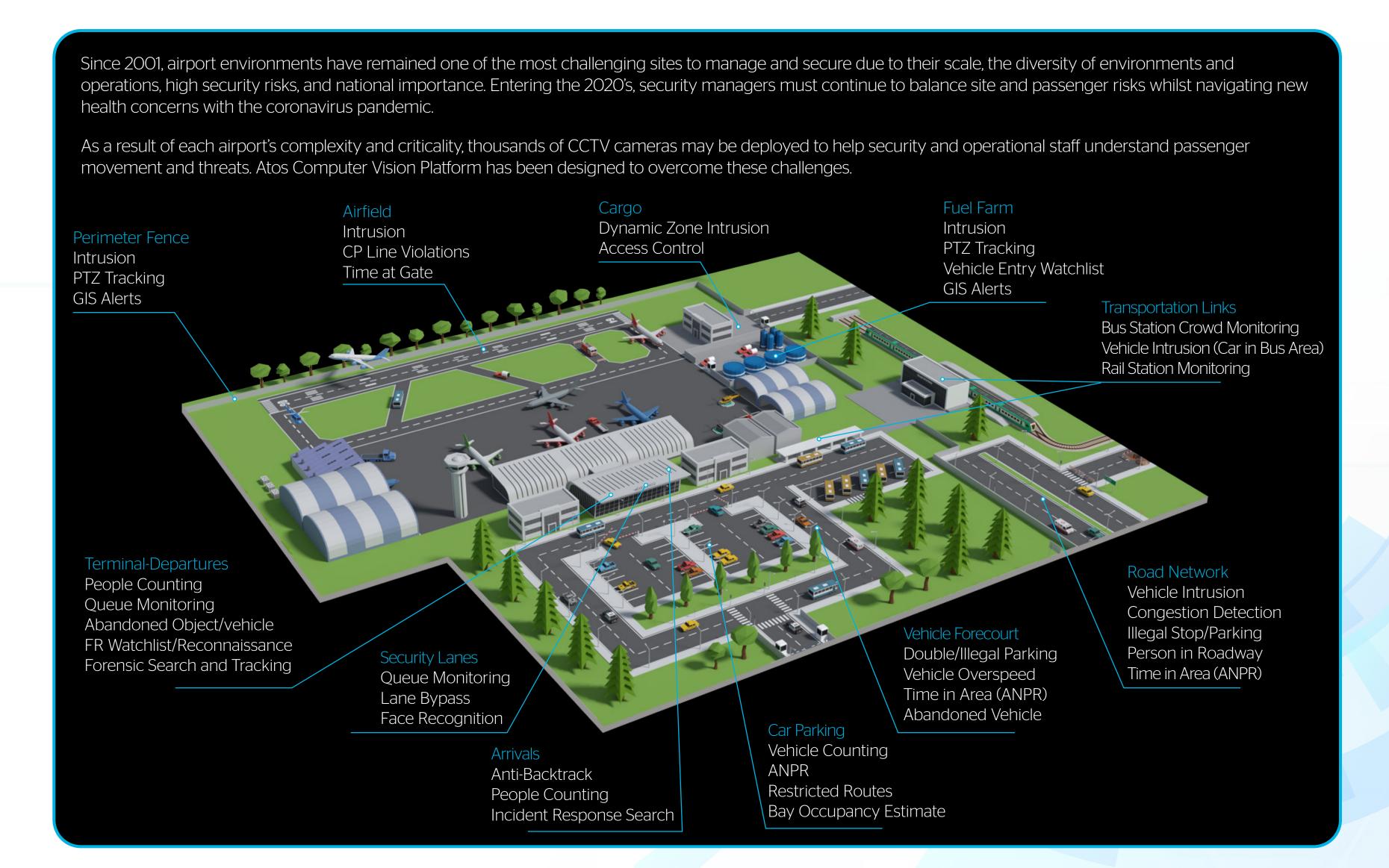
Due to the diversity of events and mass population in cities, city organizations are overwhelmed by the flow of information. Indeed, between accidents, violence, emergency assistance, traffic jams and resources management etc.. processing the information on time to drive decision can be a burden for public authorities and organizations. Atos Computer Vision Platform provides real time insights and triggers automatic alerts in case of specific events, making cities smarter and safer.



Resources Web page Brochure



Airport

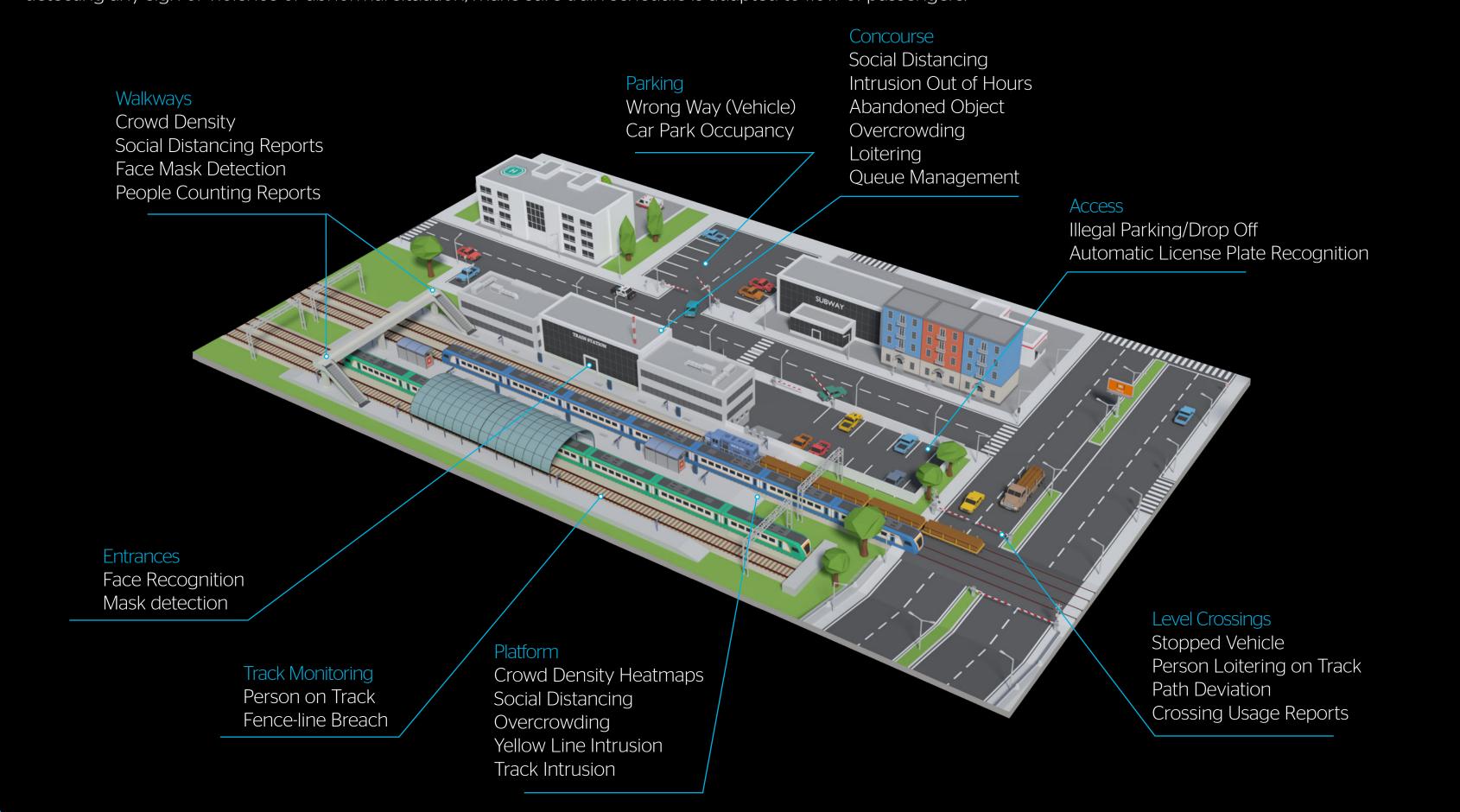






Rail

In France, 5 million people take trains each day. To ensure a safe and enjoyable journey, transport organization must ensure that trains don't encounter delays, intervals of trains are adaped to support demand, train station areas are easily accessible and safe. The quality of journey of passengers has a direct effect on consumption in the shopping gallery, which drives more revenue. Atos Computer Vision Platform allows to tracks a person abandoning a bag, identifying a lost child, detecting any sign of violence or abnormal situation, make sure train schedule is adapted to flow of passengers.



Resources



(Web page >



(Brochure >



Related resources

Crowd counting

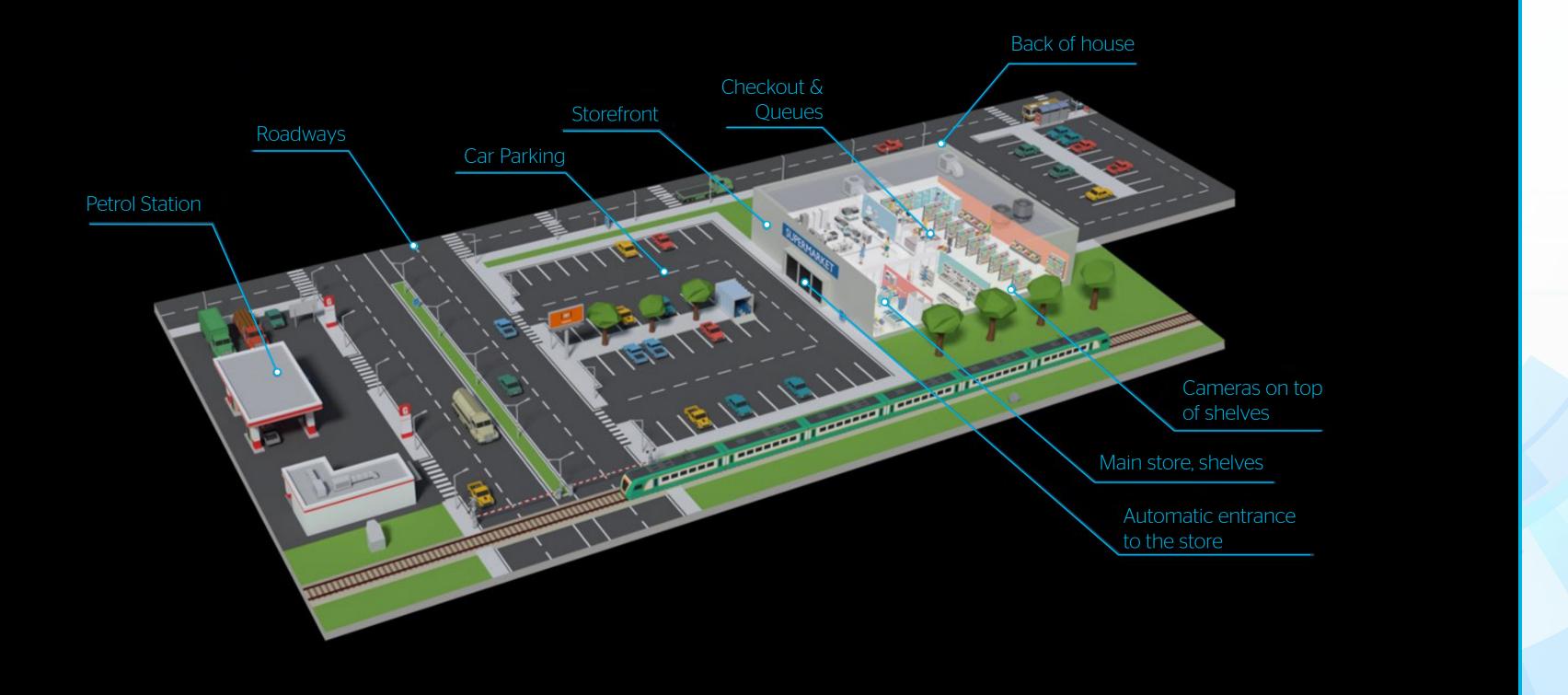


Perimeter protection demo



Retail

Over the past years, online shopping has quickly developed. Accessible anywhere, with low delivery cost, online shopping is appealing and convenient for a significant portion of the population. Online shopping has quickly made profit of customer profiling and targeting techniques, hence further improving communication and orientation of potential customers. This trend has accelerated with COVID-19 and associated lockdown measures. In November 2020, it was threatening the survival of retail stores who must constantly adapt to improve their sales.



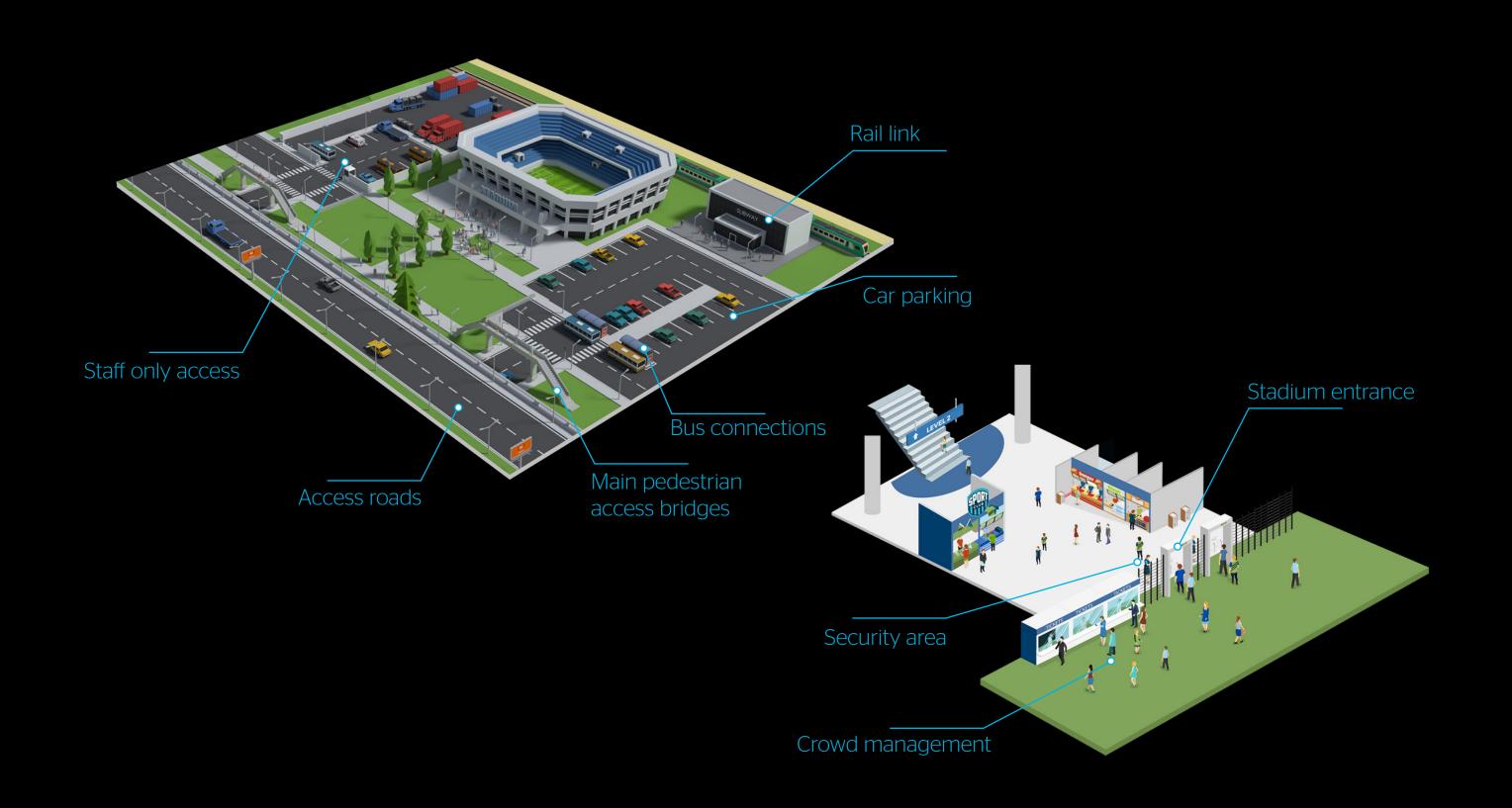


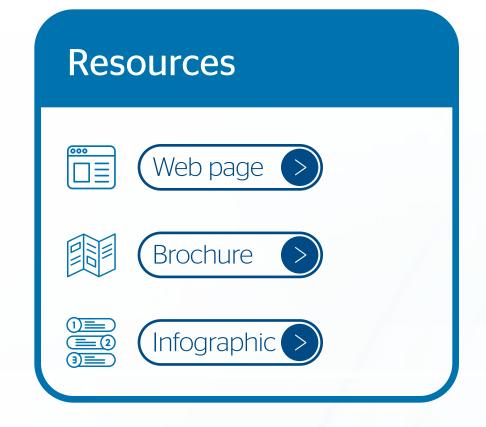


Stadiums & sport venues

Players, coaches, and fans now have greater expectations for on field experiences as well. Fans are no longer interested in just the game alone and athletes expect to be offered first-class conveniences.

An team's success is dependent on keeping their players and fans safe while also providing them with world-class experiences. By using your existing systems, Atos Computer Vision Platform can help your stadiums and practice facilities solve these fundamental challenges.



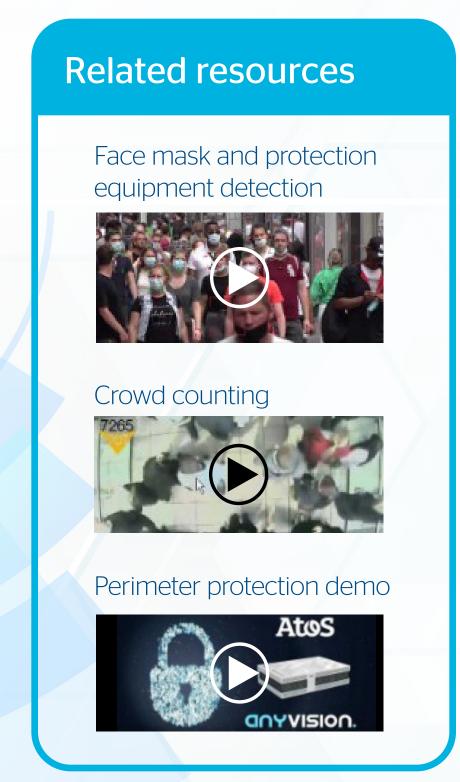




Health organizations

In health organizations, images count for up to 90% of all medical data we possess. With efficient computer vision solutions, patient visual data can be analyzed to deliver a faster diagnosis, offer the most accurate treatment, detect early-stage cancers and provide the best assistance in real time to surgeons. Atos Computer Vision Platform enables to overcome hospitals challenges, while preserving patient privacy and enhancing security. Pharmacy Ambulance bay Entrances Assisted surgery Patient monitoring Car parking Waiting rooms X-Ray and RMI Traffic management

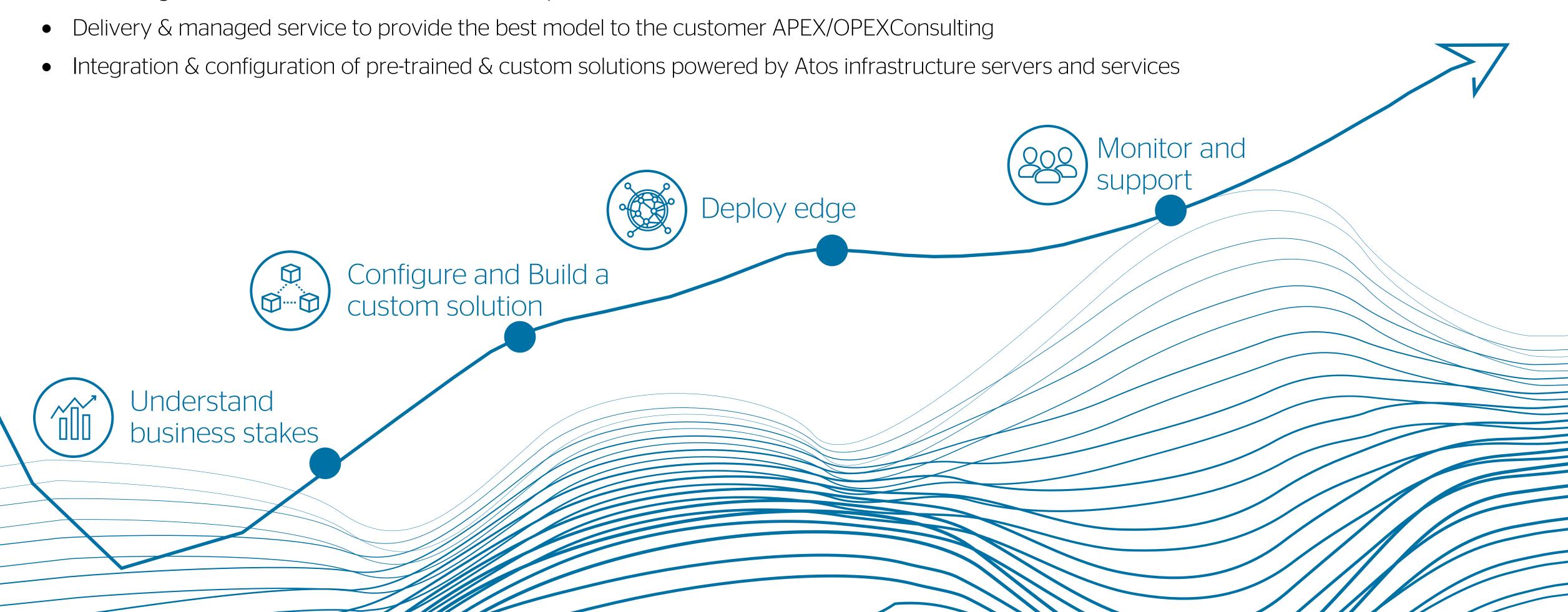




Atos delivers an end-to-end computer vision approach

We take into account your existing infrastructure and your priorities, to go from idea to realization. The Atos approach combines business and technology expertise and accelerates the passage from idea to implementation.

• Delivering custom service with our worldwide expert labs



About Atos

Atos is a global leader in digital transformation with 105,000 employees and annual revenue of over € 11 billion. European number one in cybersecurity, cloud and high performance computing, the Group provides tailored end-to-end solutions for all industries in 71 countries. A pioneer in decarbonization services and products, Atos is committed to a secure and decarbonized digital for its clients. Atos operates under the brands Atos and Atos|Syntel. Atos is a SE (Societas Europaea), listed on the CAC40 Paris stock index.

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Let's start a discussion together









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