JARVIS
Powered by Staqu

Turning Existing CCTVs Smarter

JARVIS Audio-Video Analytics Solution is reinventing the way organizations use their CCTV cameras.

Corporate Profile

Core Competence

Over the years, Staqu has been at the forefront of the AI Technology industry with its plug-and-play, video, and audio data analytics tool JARVIS. The solution has unique interactive features that have helped organizations grow at an exponential rate. Our solution can be embedded in existing infrastructure and uses the existing CCTV camera and an internet connection to provide actionable data insights through CCTV video feed. It is a centralized video management software, alerting in real-time focusing on all audio-video streams.

Security Analytics

Footfall Counting

Intrusion Detection

Safety Analytics

Automated Number Plate Recognition

Demographic Analytics

Facial Recognition

Retail Analytics

Why Choose JARVIS

▶ **Utilize video feed as actionable insights**

JARVIS is a proprietary audio - video analytics solution that helps organizations from various industries realize the true potential of their video data and utilize the data points in creating actionable strategies to ensure increased revenue, loss prevention, and accelerated operational efficiency.

▶ **Easily integrate with any VMS**

To run JARVIS, you only need an IP camera and reliable internet access. It has its own VMS Technology or can be integrated with any VMS and deployed on the cloud or at the edge which can be accessed anywhere, anytime.

▶ **Save deployment time and costs**

With the Streaming Agent tool, our latest innovation, organizations don't require a static IP at all locations for deployment. This in turn helps accelerate the deployment cycle and reduces network infrastructure costs.

▶ **Leverage 100+ Analytics data points**

JARVIS Video analytics software provides accurate, flexible, and comprehensive data insights for over 50 use cases. Derive valuable insights from 100+ analytics to accelerate situational awareness and improve operational intelligence.

▶ **Rely on incomparable Accuracy**

JARVIS is undoubtedly one of the world's best video analytics software. Its results are reliable and accurate. For instance, the Facial Recognition System comes with more than 99.7% accuracy in LFW Dataset, Youtube Faces, NITS, as well as Indian and international facial databases.

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Product
Video

JARVIS
Audio-Video Analytics Solution

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Our Clients

Industries We Serve

In the realm of AI-powered video analytics, JARVIS is omnipresent. Both the public and the private sector have shown major interest in the product. The use of AI in manufacturing and retail is highly desired. The retail industry is majorly dependent on the use of AI-powered automotive solutions, and JARVIS fits right in. We have been chosen by major retail sector clients who depend on JARVIS for automated operational, safety, and revenue generation processes. Apart from this, we have been working in other industries such as smart cities, infrastructure, and Covid-19 solutions to name a few.

Our primary objective is to assist the industries in generating income with the least amount of human resource consumption and the greatest possible efficiency using our automated solution, JARVIS.

Retail

Manufacturing

Infrastructure

Smart City

Public Sector

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JARVIS for Retail

Go one step further than standard video surveillance to implement AI-powered video analytics to reshape existing CCTV infrastructure usage beyond security and loss prevention. JARVIS's video content analytics increase revenue and reduce costs of shopping malls, fashion stores, discount stores, convenience stores, specialty stores, department stores, food stores, etc., and provides actionable insights for a better customer experience.

Retail Industry

1. Enrich customer experience through personalized outreach.
2. Get actionable insights into store performance & productivity tracking.
3. Increase footfall to conversion ratio through targeted marketing campaigns.
4. Understand the Customer Journey within each store to mitigate the blockers and enhance their experience.

Key Features

▶ **Footfall Analysis**
Gain qualitative insight like the number of visitors on an hourly, daily or monthly basis and get new sales opportunities.

▶ **Demographic Analysis**
Develop the understanding of gender & age of your audience using statistical analysis that will help in shaping marketing strategies.

▶ **Premium Customer Identification**
Provide a better customer experience by identifying repetitive and premium customers using CCTV cameras.

▶ **Queue Management**
Get the estimated wait time for each person in a queue to optimize the total number of queues and to reshuffle the customers between queues for quicker billing.

▶ **Heatmap Analysis**
Detect the warmest place in real-time for store traffic and identify which spot of the premises is/isn't going well with the audience.

▶ **Customer Journey Tracking**
Analyze the complete customer journey through various touch points across all channels for better decision making.

13 Exit
36 Entry
Footfall Analysis
Customer Journey Tracking
Female, Age: 28
Male, Age: 12
Demographic Analysis
Queue Management
Heatmap Analysis
Premium Customer

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JARVIS for Manufacturing

Today's modern manufacturers understand that the value of analyzing CCTV monitoring goes far beyond PPE compliance and crime deterrence. Video content analysis solutions are currently being used as a proactive means to develop strategies to improve security and operational efficiency. With JARVIS, organizations can increase their profits by using the onsite video surveillance and management process at their production facility.

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Manufacturing Industry

1. Streamline SOPs and improve production line efficiency.
2. Ensure adherence to safety compliances with the real-time alerting mechanism.
3. Loss prevention through theft, pilferage, etc.
4. Track vehicular movements using ANPR and generate data metrics like Vehicle Turnaround Time, Parking Analysis, etc.

Key Features

▶ **Automatic Number Plate Recognition**
Identify vehicles' number plates automatically to improve security and manage real-time traffic.

▶ **Fire Safety**
Get real-time alerts on the detection of smoke and fire to avoid any life loss or post event losses.

▶ **Intrusion Detection**
Get real-time alerts for any intrusion along with footage of the incident allowing rapid verification of the source and take action.

▶ **Smart Conveying**
Automate constant monitoring of conveyor belts to streamline productivity analysis and enhance operational efficiency.

▶ **Safety Gear Detection**
Reduce manual auditing costs as well as ensure safety & security at a manufacturing facility with real-time alerts.

▶ **Facial Recognition for Access Control**
Enhance security by detecting and sending real-time alerts of unauthorized access to restricted areas.

Fire Safety

Safety Gear Detection

Smart Conveying

Facial Recognition for Access Control

Automatic Number Plate Recognition

DL 4FAH 4945

Intrusion Detection

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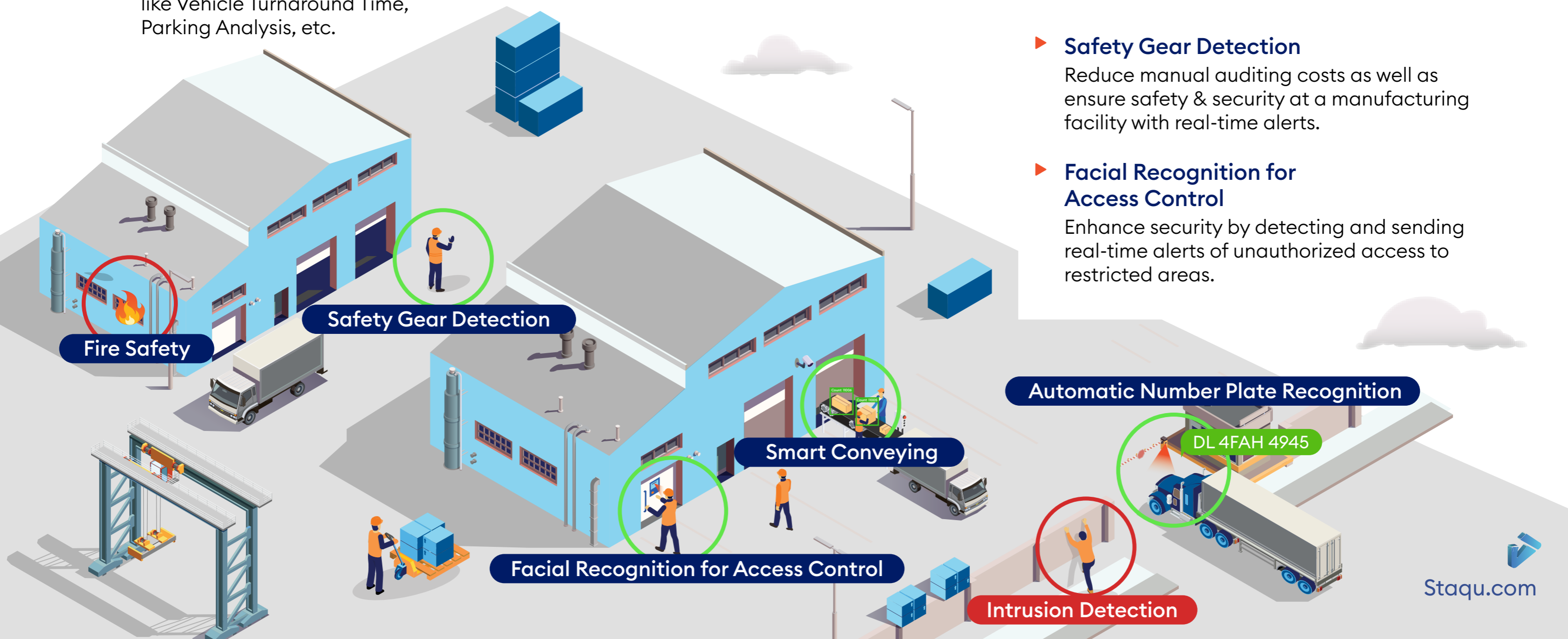
JARVIS for Infrastructure

JARVIS identifies questionable behavior and promptly alerts the security officers to concentrate on the most critical tasks and monitor the areas with the greatest danger. It replaces the need for operators to monitor several cameras and acts as a game-changing innovation in perimeter security and loss prevention for critical infrastructure. Real-time alerting makes the process of decisions to be made quicker and avoids delayed response loss.

Infrastructure Industry

1. Reduce Manual Security costs through centralized automation of SOPs and real-time alerting.
2. Reduce inefficiencies due to manual monitoring.
3. Streamline operations through parking management, occupancy analysis, etc.
4. Enhance asset protection & tracking.

Key Points

▶ **Perimeter Security**
Keep a check on the perimeter security & get alerts for any foreign movement or other abnormal activity near the property.

▶ **Smart Parking Management**
Give required access to the occupants with real-time parking occupancy data to make the whole process easy.

▶ **Footfall Analysis**
Maximize revenue by re-targeting add-on services on the basis of the footfall received per floor.

▶ **Abandoned Baggage Detection**
Get a notification for an unattended item left behind on the premises.

▶ **Fire & Smoke Detection**
Decrease the harm & boost fire control efforts by giving the early sign notifications for something that could be disastrous.

▶ **Hygiene**
Get human eye equivalent detection of hair net, hand washing, cleanliness, and dispenser usage to check hygiene compliance.

Fire Safety

MP 4FAH 1945

Automatic Number Plate Recognition

17 Entry

11 Exit

Footfall Analysis

Hygiene

Abandoned Baggage Detection

Perimeter Security

PARKING

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JARVIS for Smart City

Smart City monitoring attempts to improve public safety, reduce crime, keep the transit system running smoothly, and protect property. In today's metropolitan surroundings, JARVIS delivers a spectrum of intelligent and integrated video solutions to fulfill complicated surveillance requirements and improve security and traffic management.

Smart City

1. Mobilize public safety services without delays through real-time detection and alerting.
2. Better situational awareness for security and law enforcement through critical violation/event detection and alerts.
3. Detect traffic anomalies in real-time with events such as accidents, road blockage, traffic jams, violence, etc.
4. Reduce post-event investigation time.

Key Points

▶ **Traffic Congestion Detection**
Replicate the human visual system for traffic management by ascertaining, foreseeing, and alleviating traffic congestion using CCTVs.

▶ **Accident Detection**
Real-time AI-based reporting mechanisms and traffic monitoring can result in saving lots of lives with a hustle-free insurance claim settlement by understanding the facts of the event.

▶ **Person of Interest Tracking**
Identify person of interest in real-time in widespread sectors from smart cities to retail.

▶ **Violence Detection**
Detects different physical fights by sharing alerts for behavioral analytics and postures like, hand movement, touching, kicking.

▶ **Over-Crowding Detection**
Spot any abnormal event and suspicious behavior of the crowd using existing CCTV cameras.

▶ **Abandoned Baggage Detection**
Get notified on the potentially dangerous unattended suitcase/baggage on the premises.

Traffic Congestion Detection

Violence Detection

Accident Detection

Person of Interest Tracking

Over-Crowding Detection

Abandoned Baggage Detection

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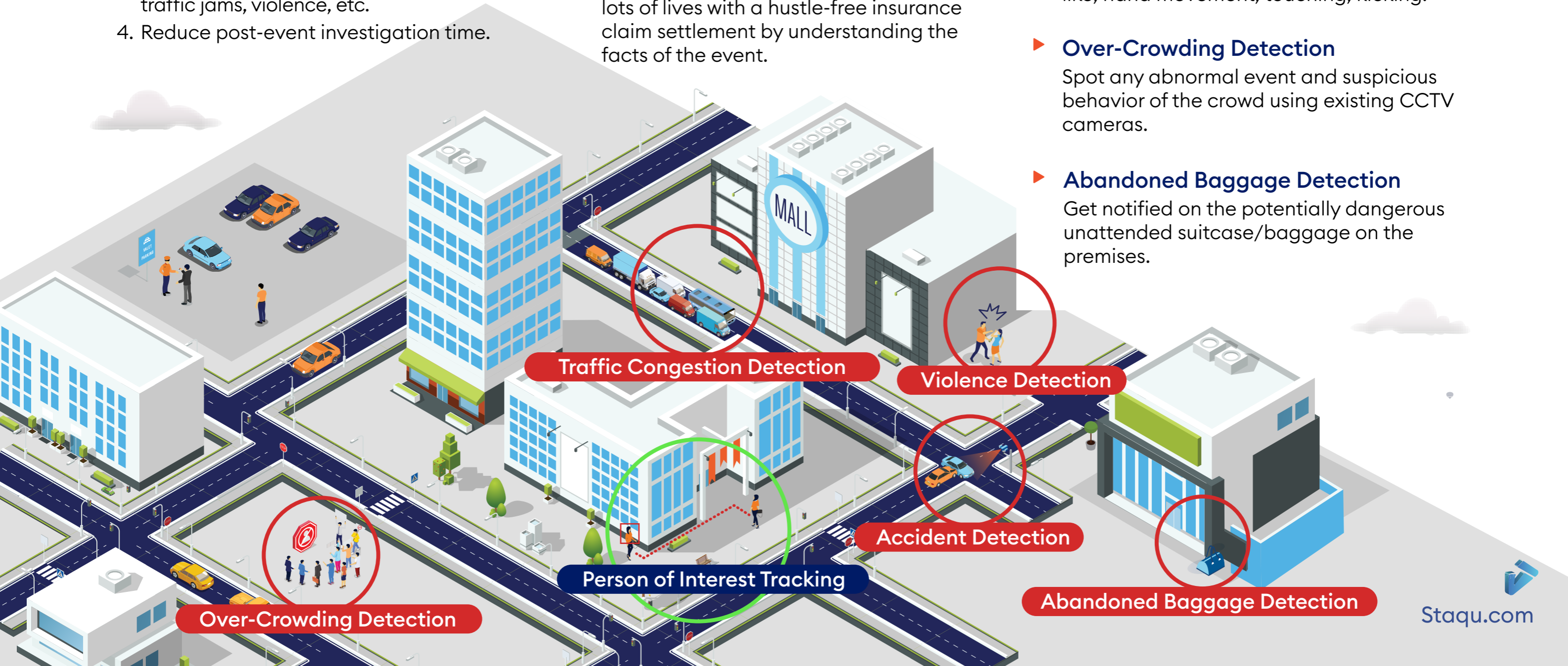
JARVIS for Public Sector

The potential value of AI-powered video analytics technology allows law enforcement to improve operations to help government agencies deter criminal attacks, and reduce crime and other threats by assisting operational units in focusing adequately on suspects and suspicious behavior and more effectively deploying field resources.
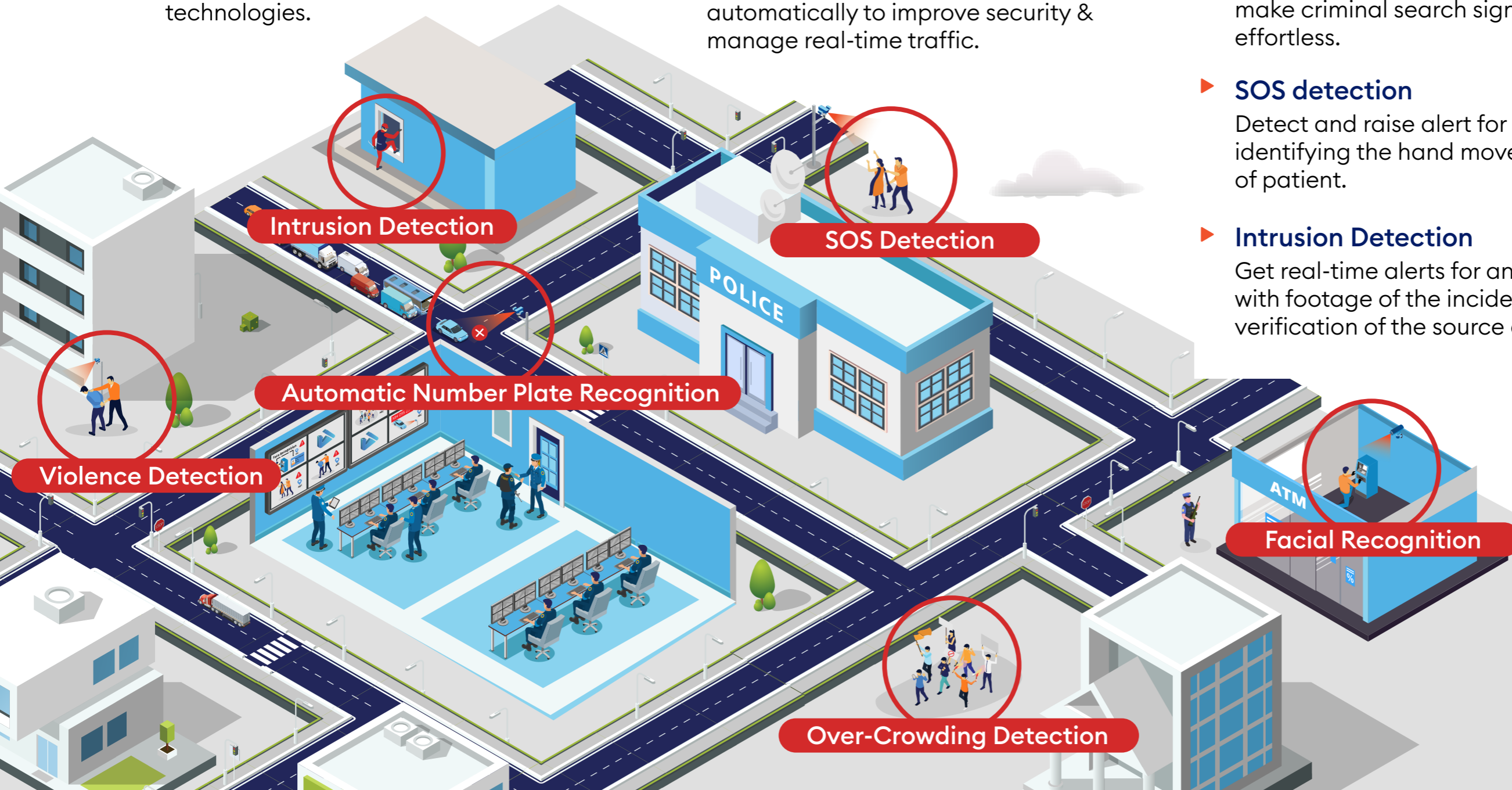
Public Sector

1. Brings transparency to the systems/processes
2. Maintain centralized and digital criminal records for smooth & quick investigations
3. Expedite investigations and capture criminals and suspects through smart criminal search, speaker identification, facial recognition & news analysis technologies.

Key Points

▶ **Violence detection**
Help law enforcement organizations in tracking any incident of violence within any specific area.

▶ **Automatic Number Plate Recognition**
Identify vehicles' number plates automatically to improve security & manage real-time traffic.

▶ **Crowd detection**
During the time of any potential protest building up at any location get situational awareness in real-time.

▶ **Facial Recognition**
Identify criminals flagged in the existing database at any location using FR and make criminal search significantly effortless.

▶ **SOS detection**
Detect and raise alert for SOS. For example, identifying the hand movement of patient.

▶ **Intrusion Detection**
Get real-time alerts for any intrusion along with footage of the incident allowing rapid verification of the source and take action.

Intrusion Detection

SOS Detection

POLICE

Automatic Number Plate Recognition

Violence Detection

ATM

Facial Recognition

Over-Crowding Detection

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Our Patents

We are proud to be a leading name in the Video Analytics Industry. Staqu has two patented technologies that have been used in developing JARVIS. Leading to seminal innovation, our patents have held high accord in the world of artificial intelligence.

What Our Clients Say About Us!

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The best part about JARVIS is that it is camera agnostic, and has plug-and-play solutions, real-time alerting, and a remarkable VMS (Video Management System).

Dr. Biswajit Rath
Head Analytics, CRM & Digital, Raymond Limited

Raymond

The tie-up with Staqu is in perfect alignment with Olive's mission and vision to manage properties remotely, make living spaces safer, secure, & guarded against delinquents and wrongdoers without increasing overheads.

Mr. Kahraman Yigit
Co-Founder & CEO, Olive Living

Olive
BY EMBASSY

We have already closed 10-12 features and we are looking for 25 more. JARVIS has made our process more fluid, safe & efficient.

Mr. Jitendra Singh,
Group CIO JK Super Cement

JKCement

I am super happy with Staqu and I believe JARVIS Video Analytics solutions could work for 80-90% of industries.

Mr Mohit Malik
CTO, Chaayos

Chaayos

"

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Competitive Analysis

Features	Staqu (JARVIS)	WoBot	NEC	HiKVision	Intellivision	Avigilon	AllGoVision	Videonetics
Cloud based video analytics on existing CCTV	✓	✓			✓	✓	✓	✓
Video analytics on any edge camera (body cam, dash cam, drone)	✓					✓		
Video management: Onvif &* customer's cloud integration support	✓		✓	✓			✓	✓
Remote installation	✓							
Forensic analysis*	✓							
Speaker identification*	✓							
Ticket management	✓	✓						
Video wall feature	✓		✓	✓		✓		
Offline analytics and report	✓	✓	✓		✓			
Audio based scene recognition*	✓							
Facial recognition (NIST Certified)	✓		✓	✓	✓		✓	✓

Corporate Philosophy & Journey

Staqu was formed with the idea of bringing in a revolution with artificial intelligence. Co-founded by three technology enthusiasts, Staqu has been in business for the past 7 years. What started as a simple idea, is now a full-fledged AI-based solution, having worked with over 100 clients from various industries.

JARVIS was initially used for homeland security. Making a space of its own in this field by providing outstanding results, JARVIS gradually branched out to other sectors as well. JARVIS has been able to bring groundbreaking change in the AI domain with its unique features and accurate results.

100+
Clients Served

5M+
Monthly Alerts Generated

20k+
Cameras Onboarded

25+
Research Papers Published

Founded Staqu
2015

JARVIS For Homeland Security
2017

JARVIS For Safety, Security & Analytics
2019

JARVIS for Retail & Manufacturing
2021

2016
Big Data Analytics for Video & Audio Data

2018
JARVIS For Enterprise

2020
JARVIS For Covid-19

2022
JARVIS For Infrastructure & Smart City

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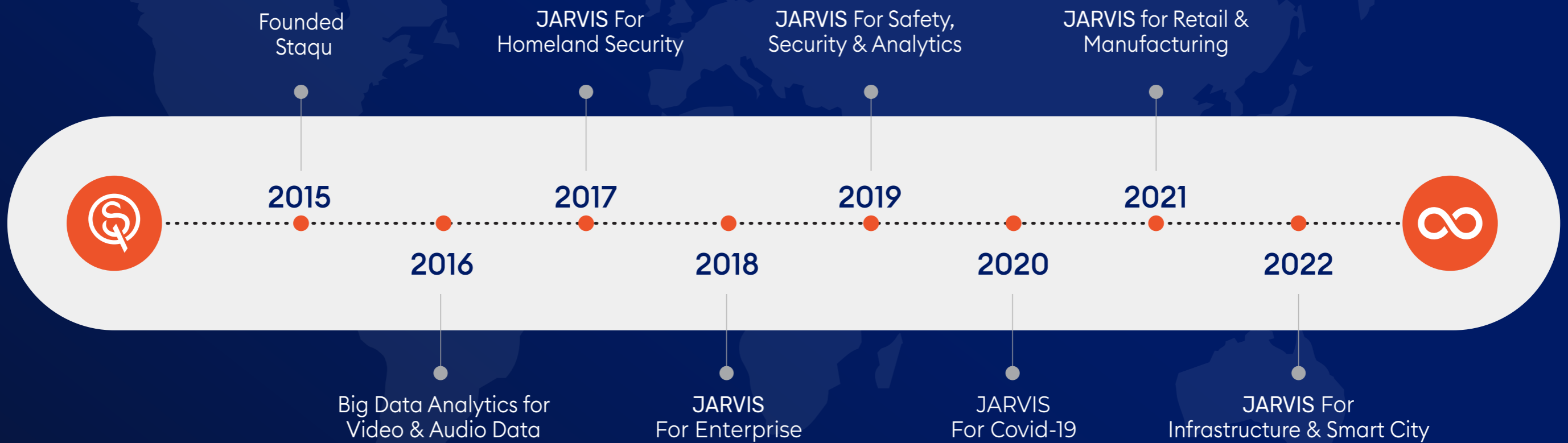
Leadership

Staqu was founded in the year 2015, and we have accomplished so much over the years. Creating a world where video analytics solution improves various processes has always been our goal. Even before AI became well-known in our nation, our founders were inspired to start this company. They saw the future where AI would be indivisible in the functioning of our daily lives.

Atul Rai
CO - FOUNDER, CEO

12+ years of experience in Computer Vision & Machine Learning
9 Research Papers Published in AI Domain

Anurag Saini
CO - FOUNDER, CTO

10+ years of experience. Worked with leading smartphone ODM brand: Qualcomm, Mediatek, Coolpad, Dewav

Pankaj Sharma
CO - FOUNDER, VP ENGG

8+ years of experience in developing & designing large scale architecture: Micromax, Zomato, Panasonic

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"

Video and image data make up 60–70% of all data on the internet. Our idea behind starting Staqu was to target this big data and analyze it. To analyze such data, in general, you need human interference. Our philosophy was to automate the analysis process and based on that we developed our platform called JARVIS.

JARVIS is our AI-powered audio-video data analytics tool that analyzes any audio-video data and performs numerous analytics. Our plan is to take it to the next level and serve as many industries as we can and deploy JARVIS in automating their operational processes.

Atul Rai

CO-FOUNDER & CEO,
STAQU TECHNOLOGIES

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Brand Vision & Mission

Mission

To provide AI solutions that help those in decision-making and practice in automating operational and monitoring processes.
To minimize human errors & maximize productivity standards.
To make surveillance centrally accessible across different locations.
To provide real-time alerts to act immediately.

Vision

Staqu envisions a safer world while making CCTVs smarter through cutting-edge AI technology providing effective and actionable insights by reading video data. Staqu is committed to foster a safe, secure & prosperous society using Artificial Intelligence.

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Awards

FICCI

FICCI Smart Policing Award UP Prison Department For the Year 2021

NATIONAL STARTUP AWARDS 2020 By #startupindia

National Startups Awards Citizen Security For the Year 2020

TiE GLOBAL SUMMIT FOSTERING ENTREPRENEURSHIP

TiE Lumis Excellence Award For the Year 2020

IAMAI Internet And Mobile Association Of India

IAMAI Award Best use of ML For the Year 2019

TECH Rocketship AWARDS INVEST IN GREAT BRITAIN & NORTHERN IRELAND

Tech Rocketship Award For the Year 2018

NASSCOM®

NASSCOM Award AI Game Changer For the Year 2018

NASSCOM®

NASSCOM Award League of 10 For the Year 2018

TOI

Acknowledged under Top 17 Start-ups TOI For the Year 2017

IBM IBM Global Entrepreneur

IBM GEP Award Winner For the Year 2017

IBM IBM Global Entrepreneur

IBM GEP Award Winner For the Year 2016

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Partnerships

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Success Story

> " Team Staqu has an excellent ability to understand the business. Their proactiveness is what differentiates my experience with Staqu.
>
> **Mr. Nikhil Bhushan**
> *IT Leader, Travel Food Services Pvt Ltd*

About the Client

Since its launch in 2009, Travel Food Services (TFS) has become the biggest F&B retailer in the travel industry & has established a formidable position in the country's food and beverage retail sector. The business has catered to people on the go by offering a range of cuisines in several settings, including restaurants, lounges at airports, etc

Logo

tfs
Travel Food Services

Situation

With the onset of the pandemic in 2020, TFS planned to work on Covid-19 protocol adherence. With time, the company also wanted to work towards revenue generation, loss prevention, staff productivity, and adhering to standard operating procedures (SOPs).

Solution

The business required our Saas-based product, JARVIS, to be deployed in over 200 cameras across nine major travel hubs. Despite the substantial amount of work, our team completed the implementation system on their existing infrastructure rather quickly.
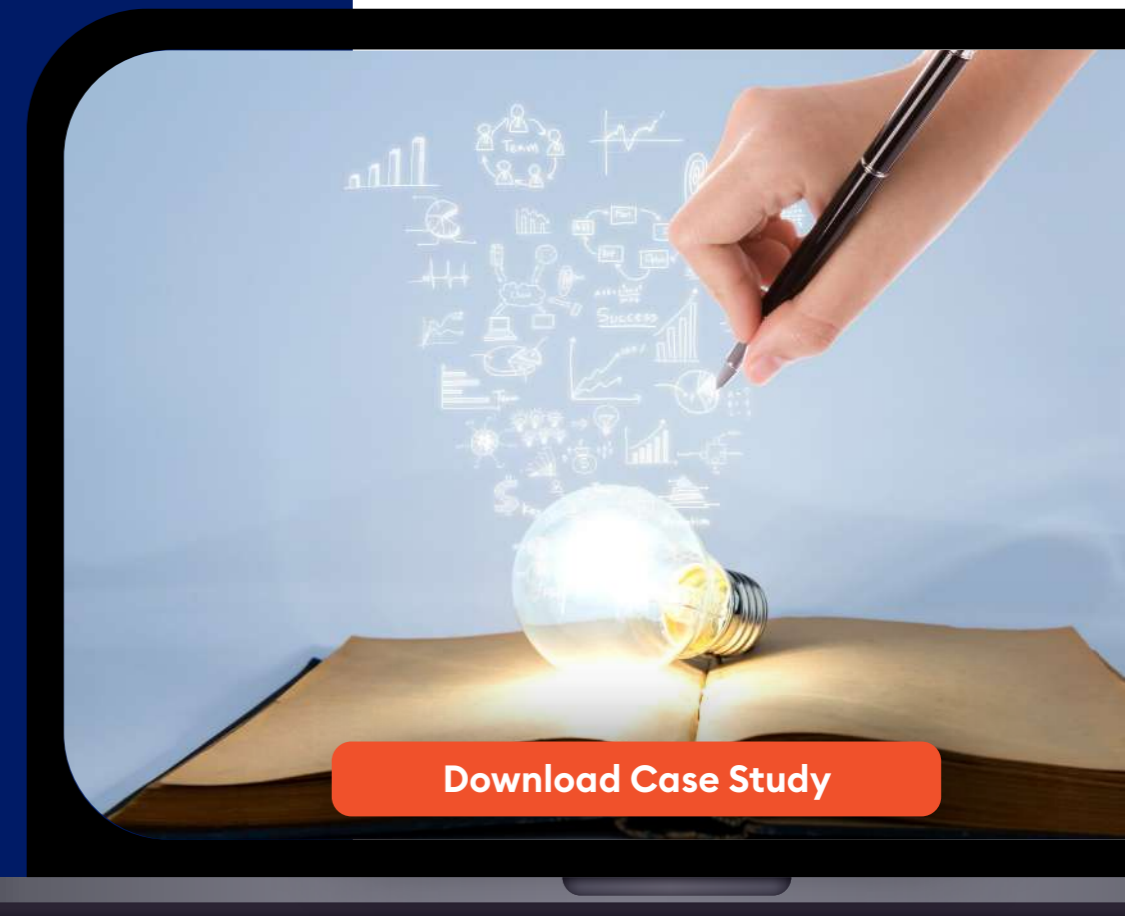
Impact

With Jarvis' application, TFS saw a 57% increase in its sales as the eating areas, and the billing counters have reduced wait times. Forecasting through footfall analysis has given the company an upper hand regarding when and where their lounges, restaurants, and outlets have the highest number of customers.

Download Case Study

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THANK YOU

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