



The World's First
Operating System & Marketplace
for
Computer Vision Applications

Bharat Exhibition 22nd August 2024



Awiros Journey



Established in 2015 Awiros today has over 80+ strong team with half of them Computer Visions Engineers and & Data Scientists.

Headquartered at Gurgaon, Awiros has office at Bengaluru and a resident office at Mumbai and Dubai

Onboarded over 50 Indian and International customers. Has over 70 Analytics App Integrated on Awiros platform

1000's Videos Per Minute
60K Feeds Deployed on Platform
3Mn Lines of Code
1.5Mn Deep Learning Interfaces/Sec

2015-2018

- Seed Round of USD 700K
- Initial deployments for small customers.
- Development of diverse apps on the platform



2019-2022

- Commercial launch of Awiros OS
- Onboarding more than 50+ customers including Honeywell, Johnson Controls, Raytheon, etc.
- 60+ apps and Large-scale deployments in Smart & Safe Cities and Enterprises



2022-2023

- Acheived positive EBITDA in FY 22.
- \$7Mn VC Fund by deep tech VCs like Exfinity, inflexor & Veda VC
- First AI company in India to jointly publish a white paper with Cisco, Dell & NVIDIA
- Launch of App-A-Thon in association with Intel Corp,



2024

- Launch of **Percept** a handle held inspection tool along with Pratt & Whitney
- NASSCOM Emerge 50, Bangalore - Top 50 Deep Tech Startups in India.
- World Smart City Conference, Barcelona - Top 3 Global Solutions in the Safety and Resilience Category.



The problem of disintegration in traditional VA



Several products available in the marketplace catering to different use cases but **no concentrated approach** of a unified platform



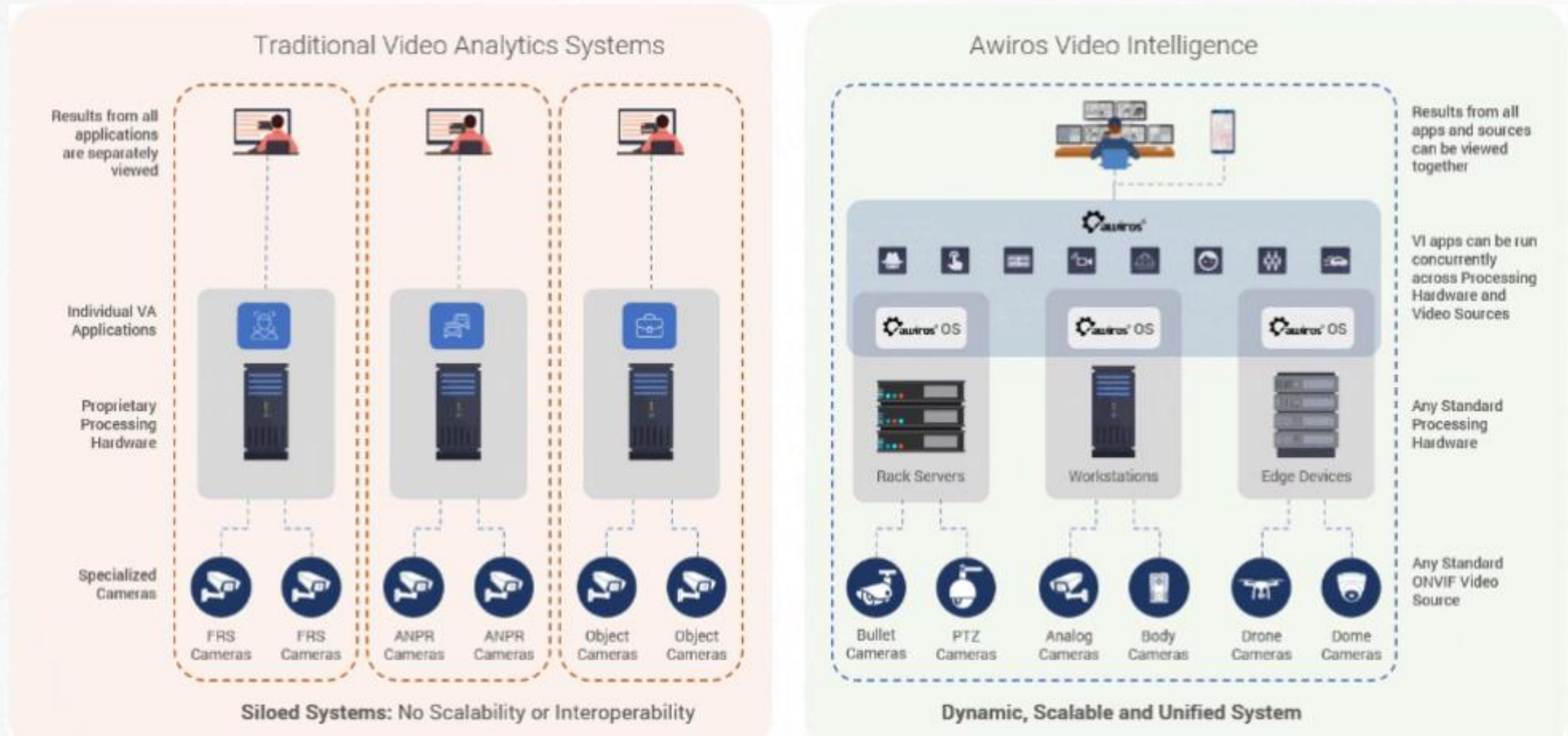
No OS available which provides a **plug and play mechanism** for hosting third party Apps to cater to different use cases

Non-viable for non-tech companies to keep up with the fast evolving Computer Vision space

Most enterprises may **not** be able to develop an **in-house Video AI** set-up successfully

The Paradigm Shift in Video Analytics

With and Without Awiros



Awiros is that platform



Awiros App-stack

One stop marketplace for all Video AI use cases



Develop & deploy your own use cases using Awiros OS



Simple click & start for deploying applications right away



Unified Computer Vision Platform



Operating System



Kubernetes based hardware optimization



Unrestricted Scalability



Seamless Integrability with Video AI ecosystem



Hardware agnostic

Awiros App-Stack

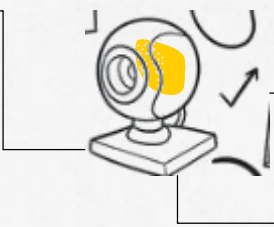
The screenshot displays the Awiros application interface. At the top left is the Awiros logo, followed by navigation links for 'Organisations', 'Users', and 'Orders'. A search bar is located below the navigation. The main content area features a grid of application cards, each with an icon, title, developer name, version number, and a brief description. The cards include:

- Licence Plate Recognition** (v 1.00) by Sourav Paul: Recognises the license plate by identifying license number.
- Person Collapsing** (v 22.2) by Shantanu Tripathi: Generates an alert if a person falls and lays on the ground for a certain duration.
- Camera Health and Tampering...** (v 22.2) by Nikhil Dugar: Alerts when the view of the camera view is either...
- Facial Recognition** (v 22.2) by Shaurya Goel: This app detects the face of a person and recognises it from a pre-registered database and displays the label on the...
- Person Protection Equipment...** (v 22.2) by Stavva Datta: Detecting and enforcing if employees in factory are wearing...
- Speed Violation** (v 22.2) by Nachiketa Hebbar: Raises an alert when a vehicle crosses a specified speed limit in the camera view.

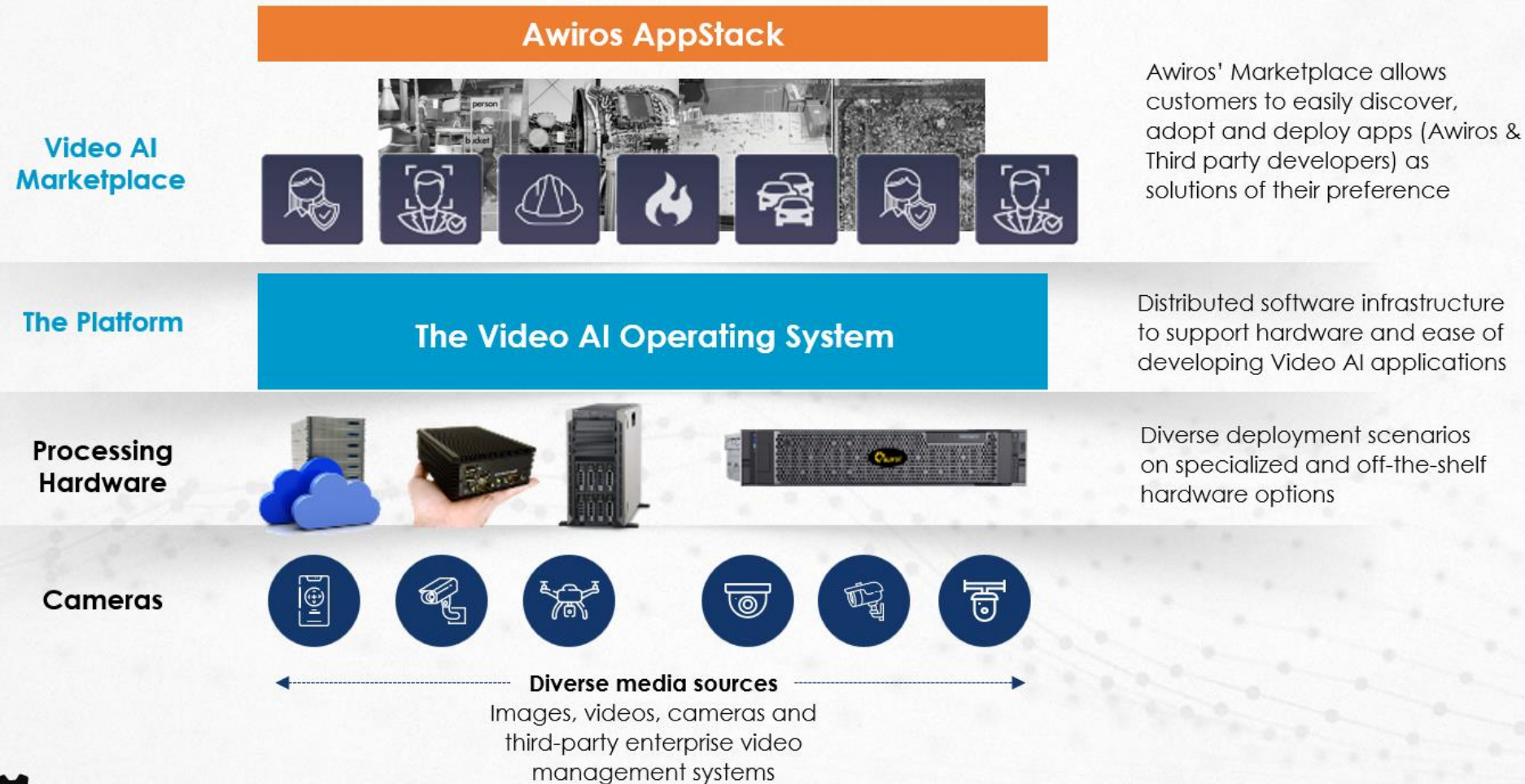
On the right side of the interface, there are buttons for 'Register App' and 'Create Organisation', along with a user profile icon. Below these, there are statistics: '>70 Enterprise Apps' and '>85% Reduced Effort'. At the bottom right, there is another statistic: '>50 Enterprise Customers'. The interface also includes a 'Sort' dropdown and a 'List View' toggle.

Awiros is a Computer Vision OS and Marketplace

specialized for Video AI



Awiros systems process nearly **1000 hours of video** per minute



Awiros is

*Comprehensive,
Sticky &
Scalable!*

Solutions Present Across Industries



Factory



City



Bank



Airport



Campus



Retail



Warehouse



Data Centre



Home



Office



























Ports



Oil & Gas

Deployed at Scale across Large Clients & Partners

 <p>Delhi Safe City Largest Video AI Deployment in India</p>	 <p>Bengaluru Safe City. Largest Video AI Deployment in India</p>	 <p>J&K Safe City</p>	 <p>Mercedes-Benz</p>		
 <p>Aircraft Engine Inspection</p>		 <p>Large Scale Camera Health Monitoring</p>			
	 <p>Contactless Attendance</p>	 <p>Facial Recognition for 250+cameras</p>			
 <p>Awiros OS becomes a part of Pune Smart City's Centre of Excellence (CoE)</p>	 <p>Telangana State Crowd Estimation</p>			 <p>IndianOil</p>	

15 Largest Safe and Smart Cities | 40+ Global Enterprises – Over 5 Countries

Safe City Proj



Bengaluru Safe City:

Implemented 1,500 face recognition licenses to enhance city-wide security and surveillance.

Delhi Safe City:

Deployed extensive face recognition and video analytics solutions to improve public safety and crime prevention.

Jammu & Kashmir Safe City:

Project secured with implementation starting soon, aiming to bolster security measures across the region.

DGRAM Project:

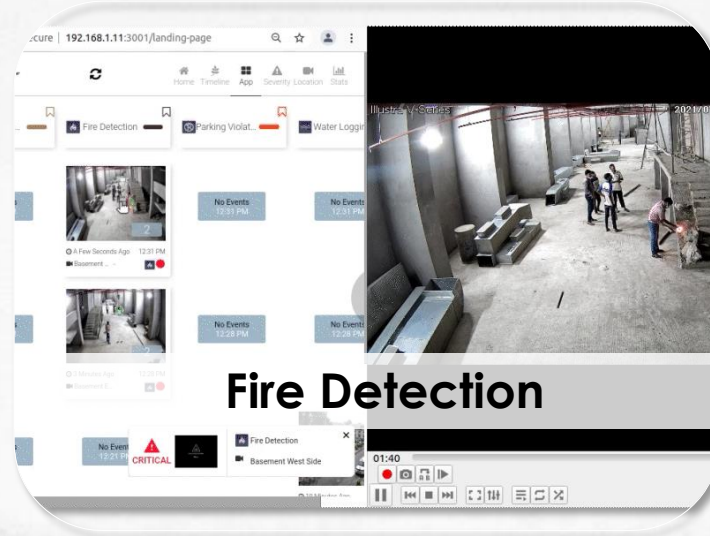
Collaborating with Infosys on a significant initiative to advance digital governance and public safety solutions.



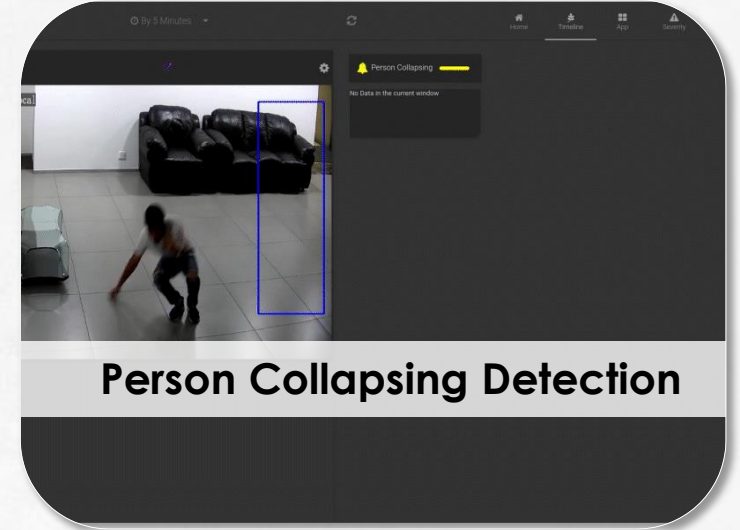
Video AI Apps – Diverse Industries & Use-cases



PPE Detection



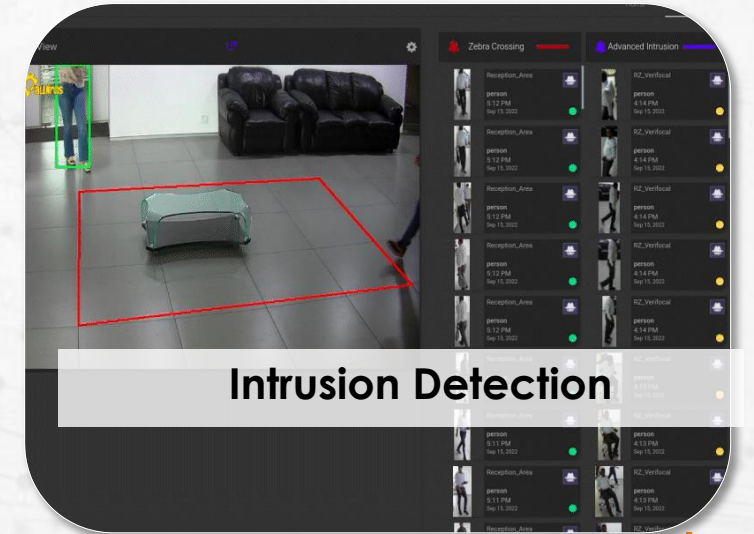
Fire Detection



Person Collapsing Detection

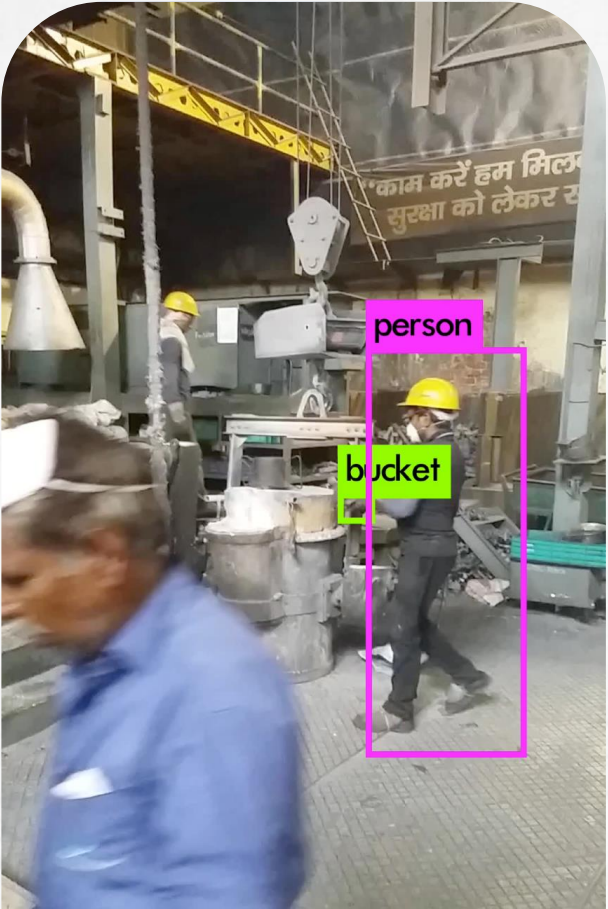


Facial Recognition

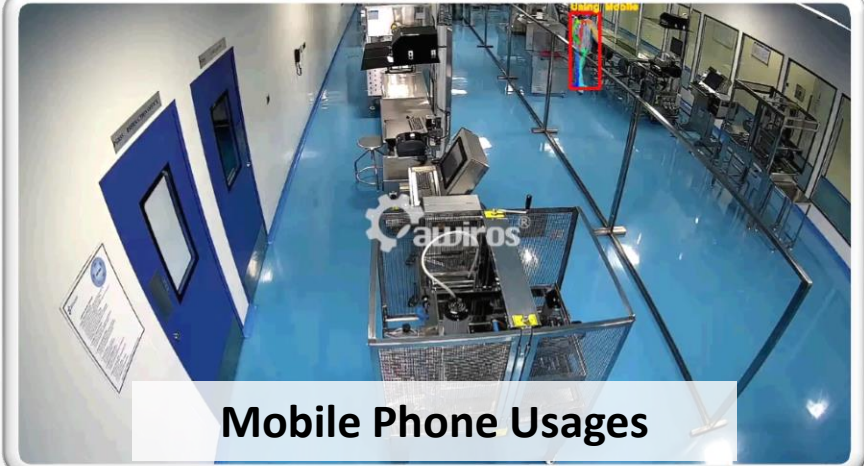


Intrusion Detection

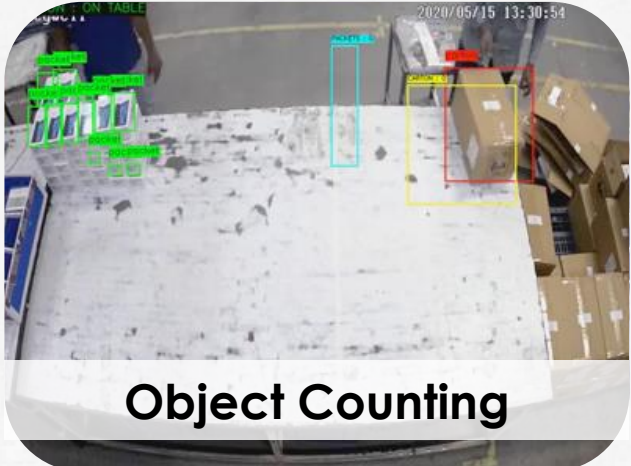
Video AI Apps – Diverse Industries & Use-cases



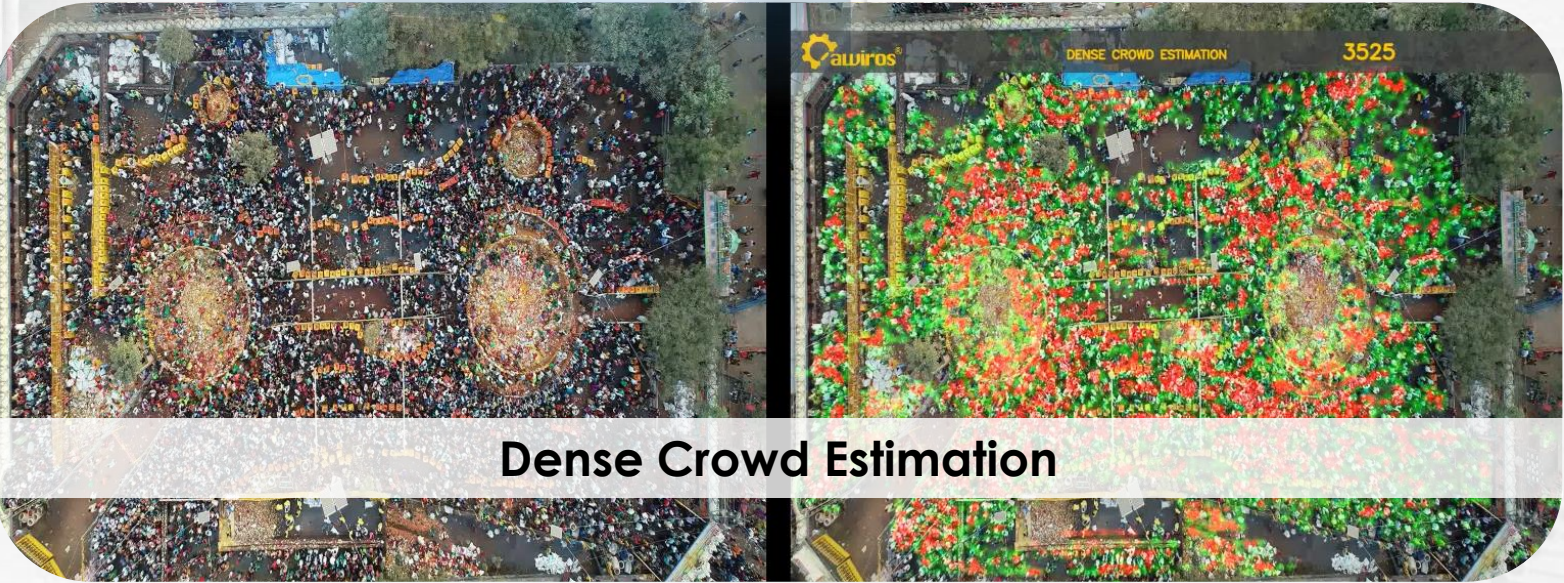
Process Monitoring



Mobile Phone Usages

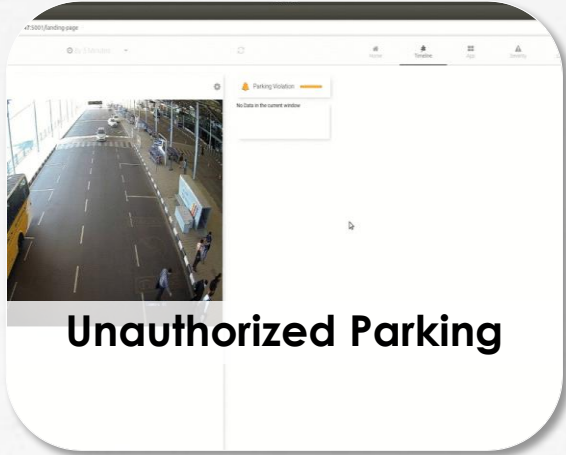
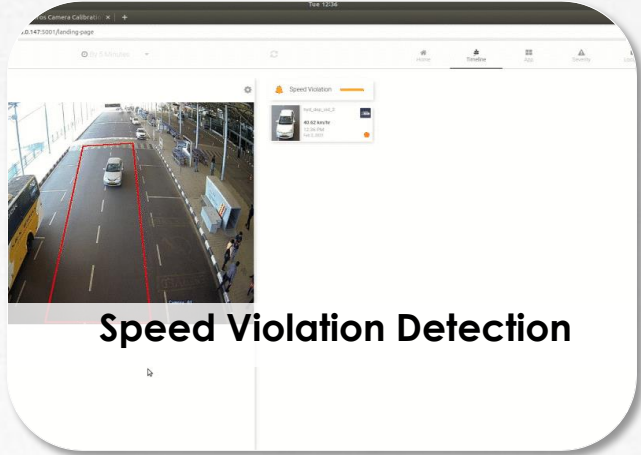


Object Counting

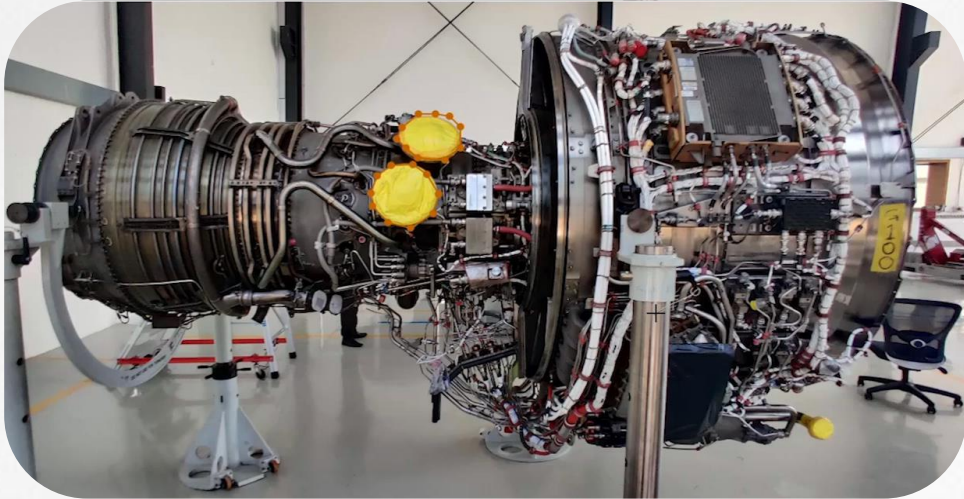


Dense Crowd Estimation

Traffic Management Systems

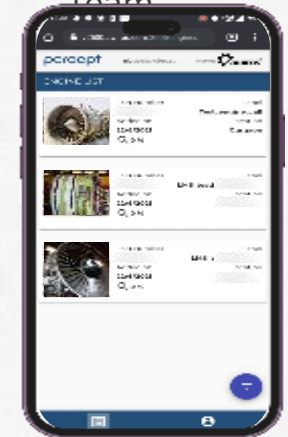
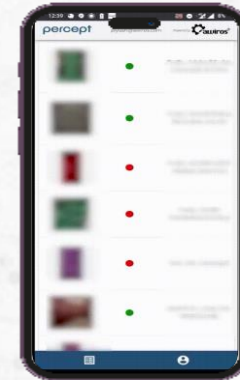
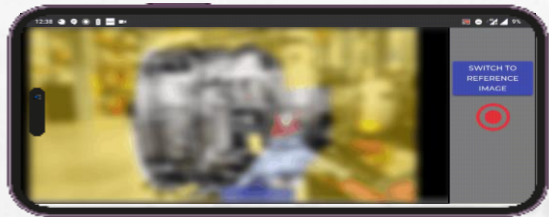


Visual Inspection Automation – aiscope



Identify individual components of the machinery in the captured images

The identified components are catalogued for review and analysis by onsite QC team



Step 1 Capture Images

via video sources viz.

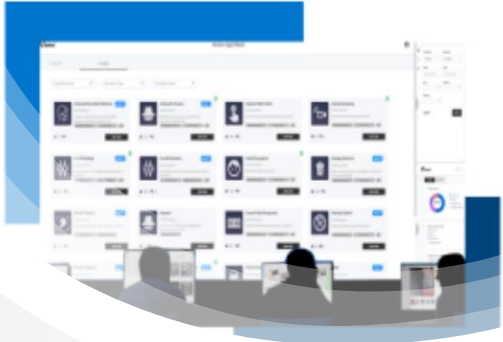
- Mobile/Tablet
- Other handheld devices

Step 2 Process with AI

Step 3 Catalogue Images and Inspection Data

An operating system for powering video intelligence in India

Awiros, an AI-powered computer-vision platform, converts video into actionable insights with Dell Technologies OEM Solutions.



"We reduced developer
10-15% by working with
Dell Technologies"

Cisco analytics solution



Get more value from your data faster with high performance object storage for data tiering.



Operationalize your video analytics operating system running on Cisco

Awiros Data-Center Appliances and Applications



Awiros data-center appliances, built on the Dell platform, have published case studies showcasing CPU/GPU and Modius performance benchmarking.



Nvidia has highlighted Awiros' crowd estimation and management application in a study, demonstrating its significant impact on public safety authorities in Telangana, India.



Several performance studies have been jointly undertaken with Intel on benchmarking smart-city workloads.



Performance evaluation of Awiros apps on 7 Modius (Mustang) cards in a Dell appliance is underway.



Awiros is the first AI company to publish a joint white paper on benchmarking AI/ML workloads on the Cisco UCS platform with its Computer Vision OS and is listed on the Cisco website.

Leveraging AWS Cloud & Intel® Distribution of OpenVINO™ Toolkit to Create Awiros Video AI Marketplace

Video analytics is an ever-evolving field, with enterprises - both big and small - consuming thousands of cameras, IoT devices, and sensors are deployed across cities, businesses, and homes, generating billions of bytes of data each day. With such a data explosion, it's critical for businesses to have a way to manage and analyze this data. However, when it comes to "video AI" solutions, customers often require applications that can be developed from one business to the other, even in the same industry vertical. Developing such applications is a time-consuming process, which will cost time, manpower, and resources.

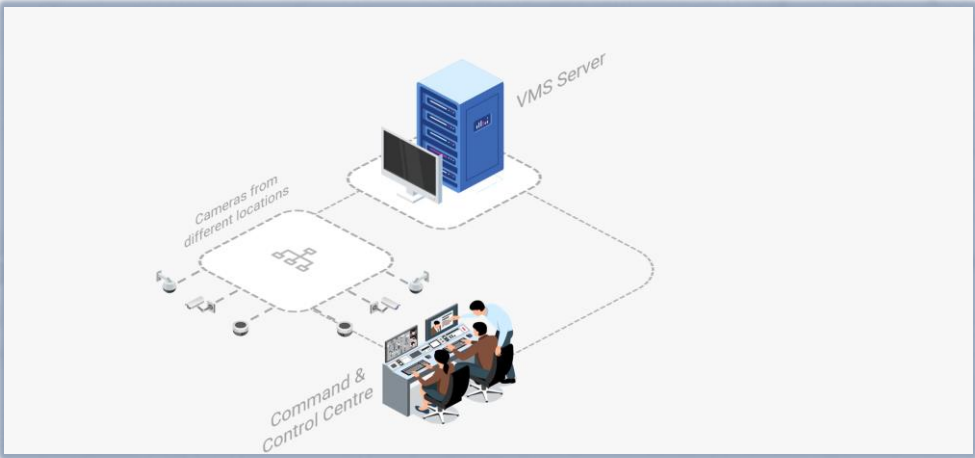
Real Time Alerts



Hardware Agnostic



Easy To Integrate

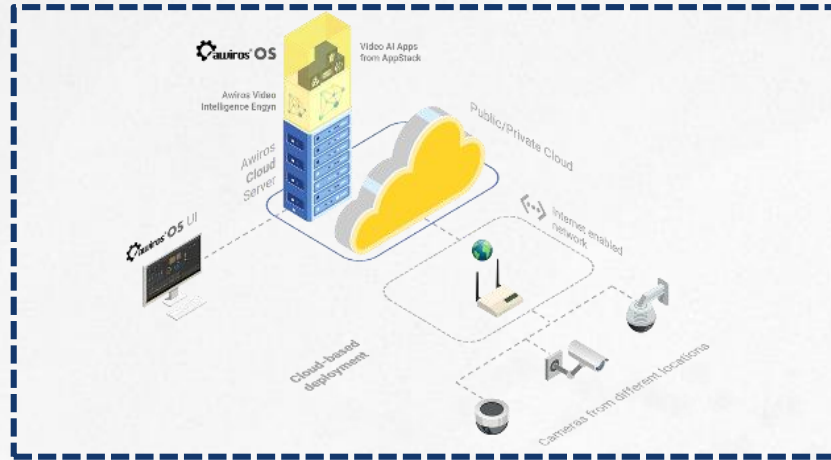


Scale On Demand

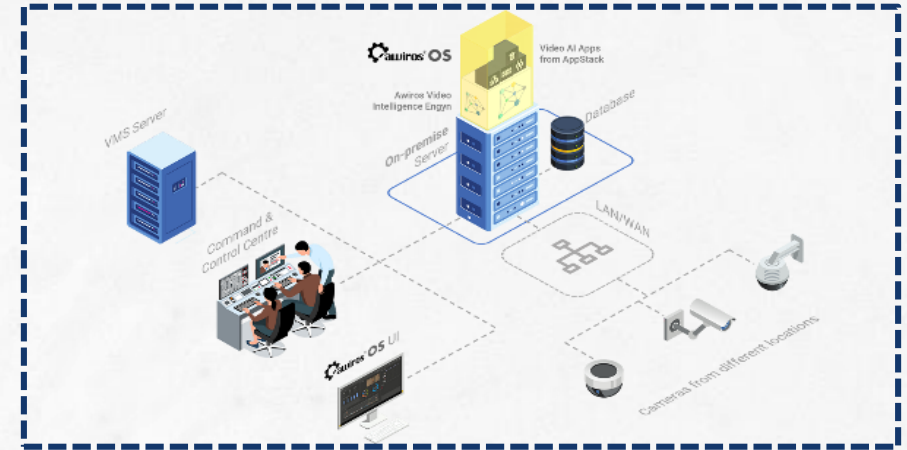


Awiros Deployment Architecture

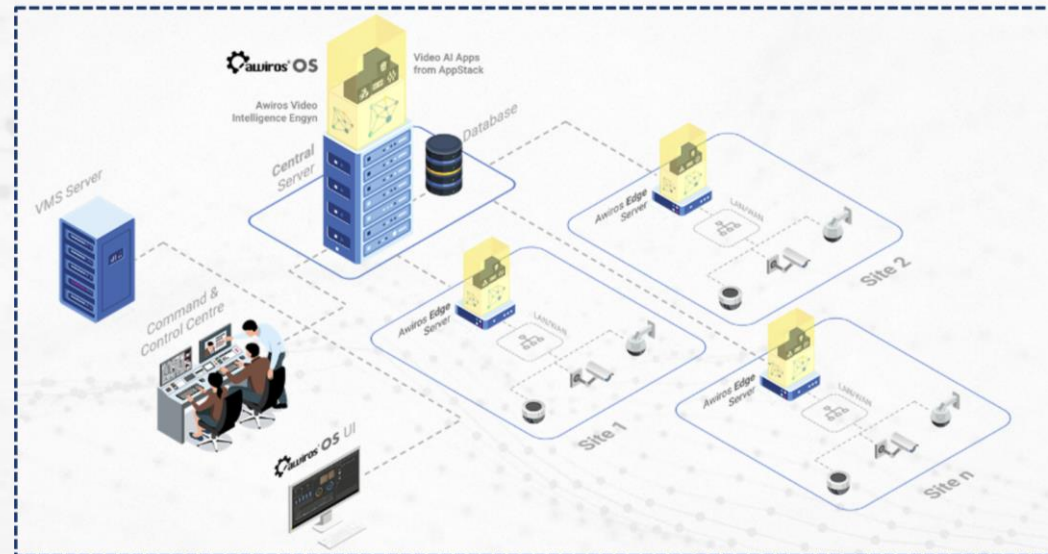
On Cloud



On Premise



Edge + Cloud



Awiro's Integrations



Video Systems

Command Center

Cloud

Compute

Hardware

Honeywell

trinity



intel



Qognify



milestone

Qognify

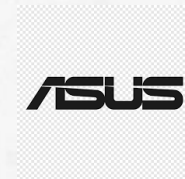
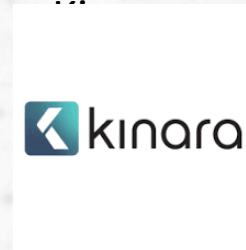


AMD

ADVANTECH

Genetec

Honeywell



exacqVision



Qualcomm



Global Research & Collaborations

x Research



First AI company in India to jointly publish a white paper with Cisco, Dell & NVIDIA



Solution Overview



Cisco UCS Infrastructure for Video Analytics with Awiros Operating System

DELL Technologies

An operating system for powering video intelligence in India

CROWD SAFETY AWIROS

Keeping a big crowd safe—10 million people big.

Madaras Jathara is the biggest tribal festival in Asia, drawing nearly 10 million devotees to Telangana, a state in southern India, every year. Managing a crowd this size takes more than extraordinary planning and coordination. It takes powerful technology.

The state authority responsible for event safety used the Awiros Crowd Estimation application to measure crowd density at several locations during the 2020 festival. This first-of-its-kind tool uses AI to estimate crowd densities in real time using video cameras, letting authorities detect crowd size and track variations in area-specific density over time. This gives them a head-start on taking preventive measures and avoiding dangerous situations such as stampedes.

The application was deployed on cameras positioned at several key entry-exit points of the festival site, as well as on a drone camera that provided an aerial view of the venue. Video feeds were analyzed in real time using the NVIDIA DeepStream SDK and powered by the NVIDIA DSSX platform. Each GPU-enabled system analyzed video streams from several live cameras simultaneously, keeping the system footprint to a minimum and greatly reducing cost.

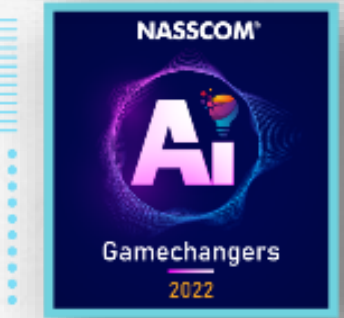
Officials were alerted when the crowd density in a region crossed a specific safety threshold or when the rate of change in crowd density changed rapidly and could act quickly—keeping attendees safe and the festival running smoothly.



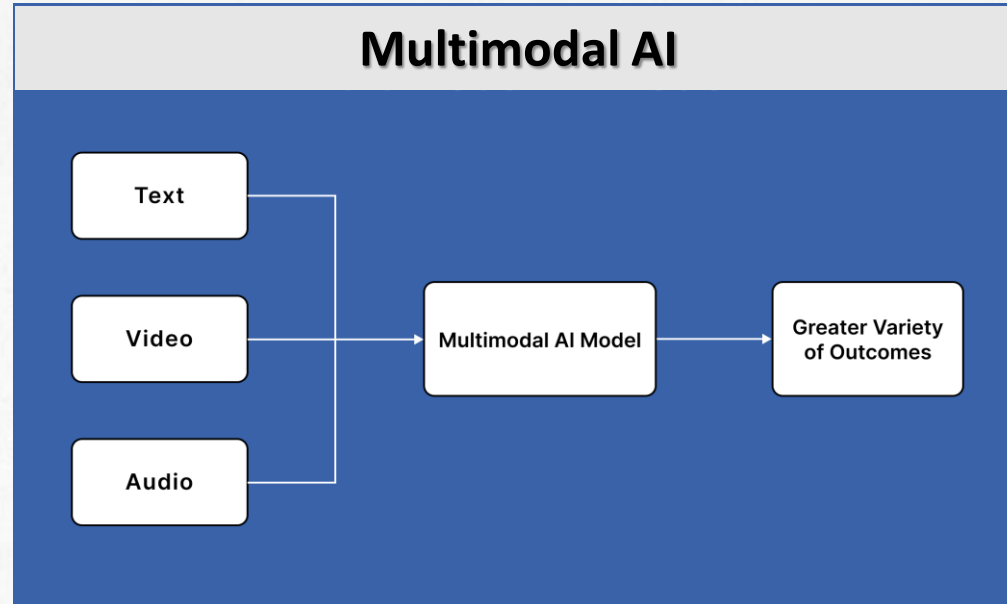
Selected to Demo to PM Modi during Bharat Mobility



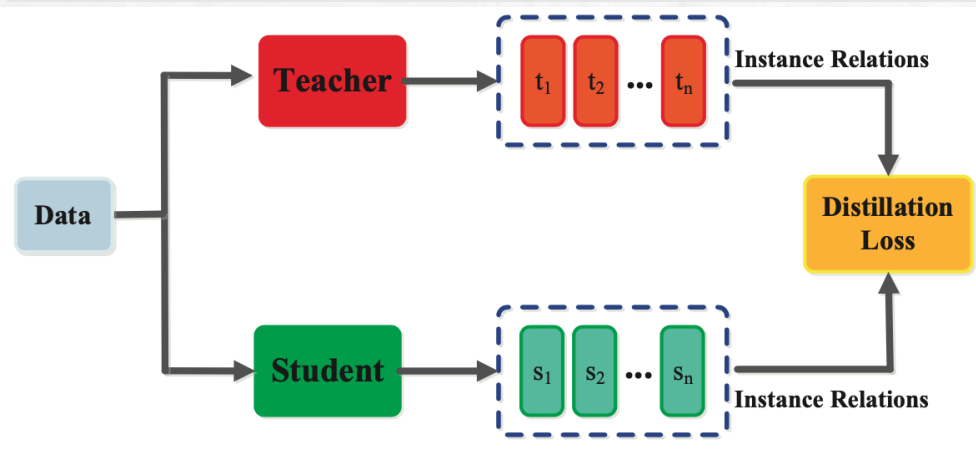
India's largest Computer Vision Appathon



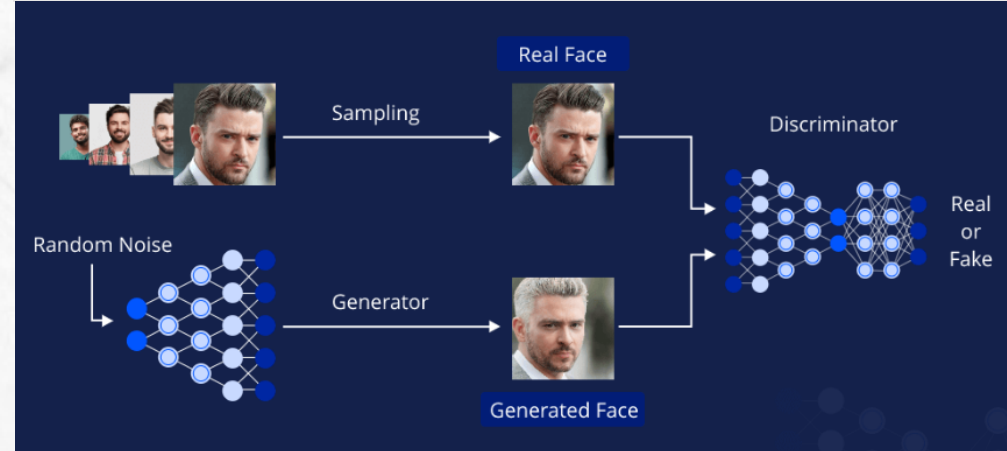
Awiros & Future of Computer Vision



Heterogenous Knowledge Distillation



Gen AI for Enhancement of AI Models





Awiros



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Awiros Video Intelligence

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Thanks!