WORLD'S LEADING AI ENGINE BUILDERS

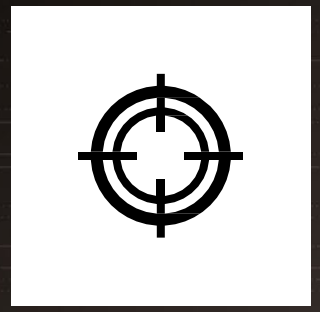
VAIDIO

AICUDA TECHNOLOGY & IRONYUN

VAIDIO AI VISION PLATFORM

AICUDA TECHNOLOGY

IRONYUN™



ACCURATE
ALERTS

MAXIMIZED
EFFICIENCY

FAST
VIDEO SEARCH

AI-ENABLED
ANALYTICS

COMPREHENSIVE
FUNCTIONALITY

VERSATILE
More analytics than any alternative

FAST
Search days of video in minutes

ACCURATE
Reduce false positives by orders of magnitude

IMMEDIATE
Real-time alerts in 3 seconds or less

INTELLIGENT
Natural-language search across multiple objects

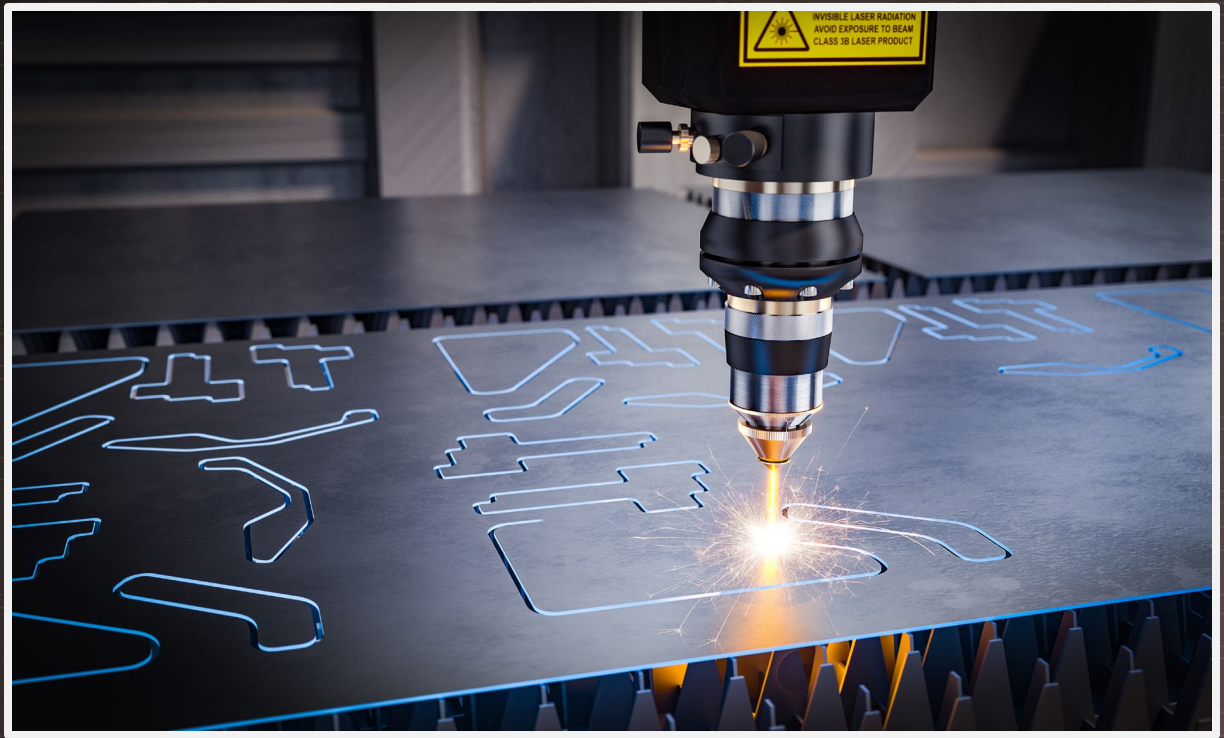
OPEN
Integrate with 97% of ONVIF devices

IMPACTFUL
Increase alert readiness, improve productivity

AI ANALYTICS FOR MANUFACTURING COMPANIES

VAIDIO™

AI IN MANUFACTURING OPERATIONS



- PRODUCT QUALITY
- INTELLIGENT MAINTENANCE
- PRODUCTION
- PRODUCT DEVELOPMENT
- SUPPLY CHAIN MANAGEMENT
- SAFETY
- ENERGY MANAGEMENT

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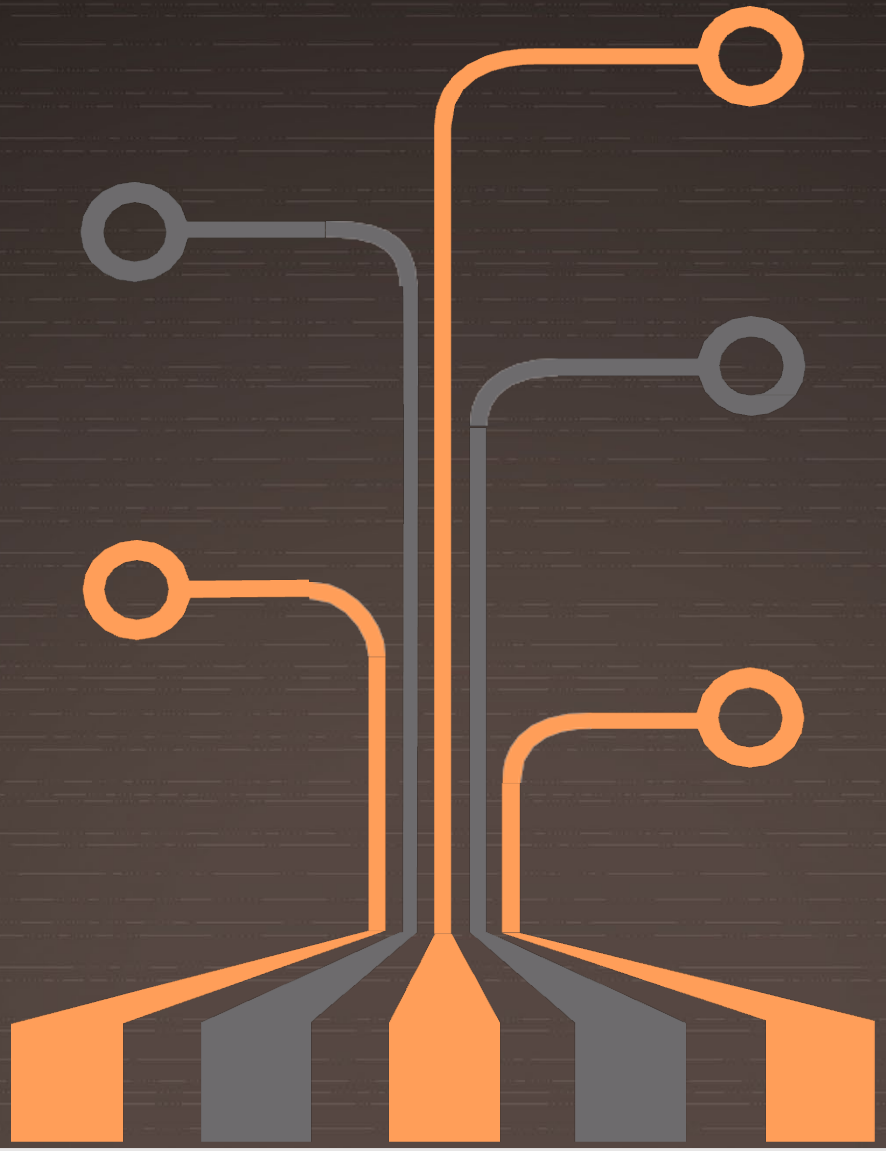
AI IN MANUFACTURING OPERATIONS

Product Quality

Intelligent Maintenance



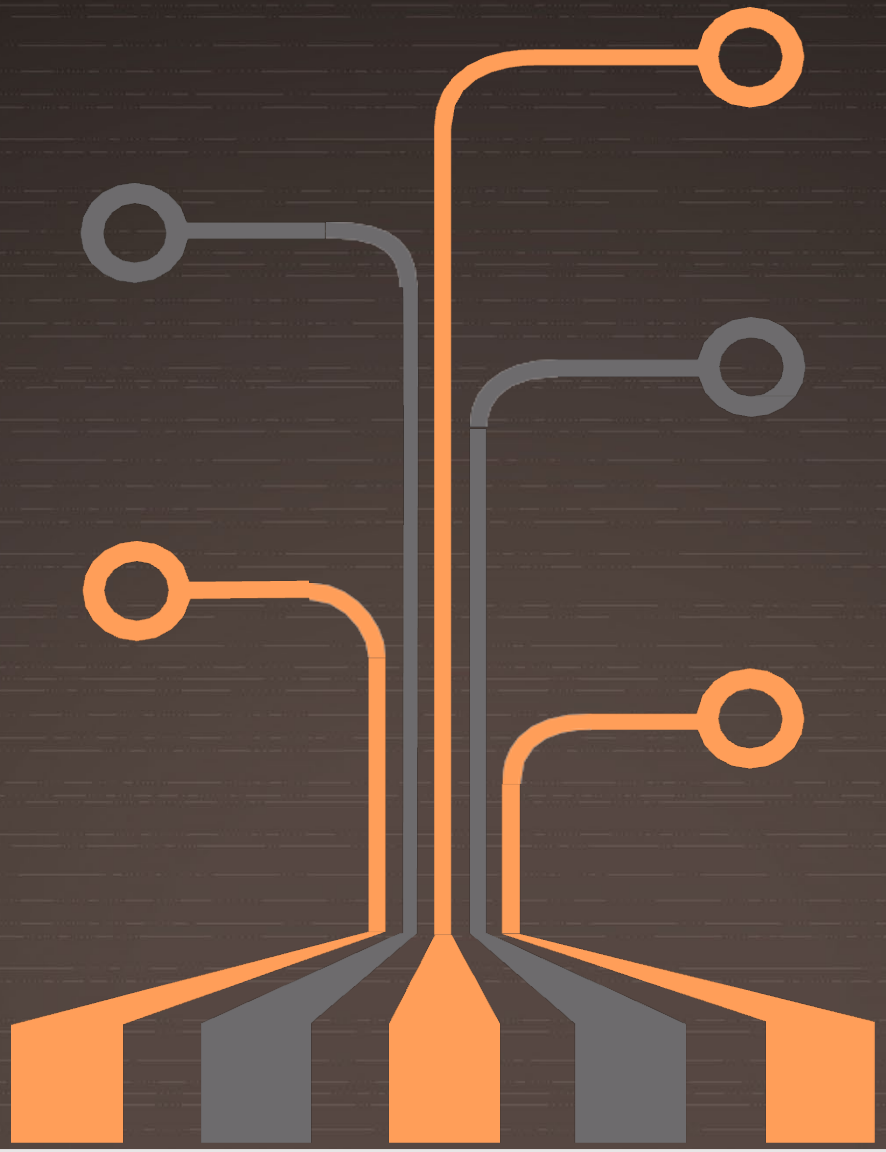
Production

Product Development

VAIDIO™

AI IN MANUFACTURING OPERATIONS

Supply Chain Management



Safety

Energy Management

VAIDIO™

PRODUCT QUALITY

PRODUCT QUALITY INSPECTIONS BASED ON ARTIFICIAL INTELLIGENCE BRING UNIFORMITY AND EFFICIENCY IN QUALITY CONTROL

USE VIDEO IMAGES TO DETECT CERTAIN ABNORMALITIES IN RAW MATERIALS AND PARTS

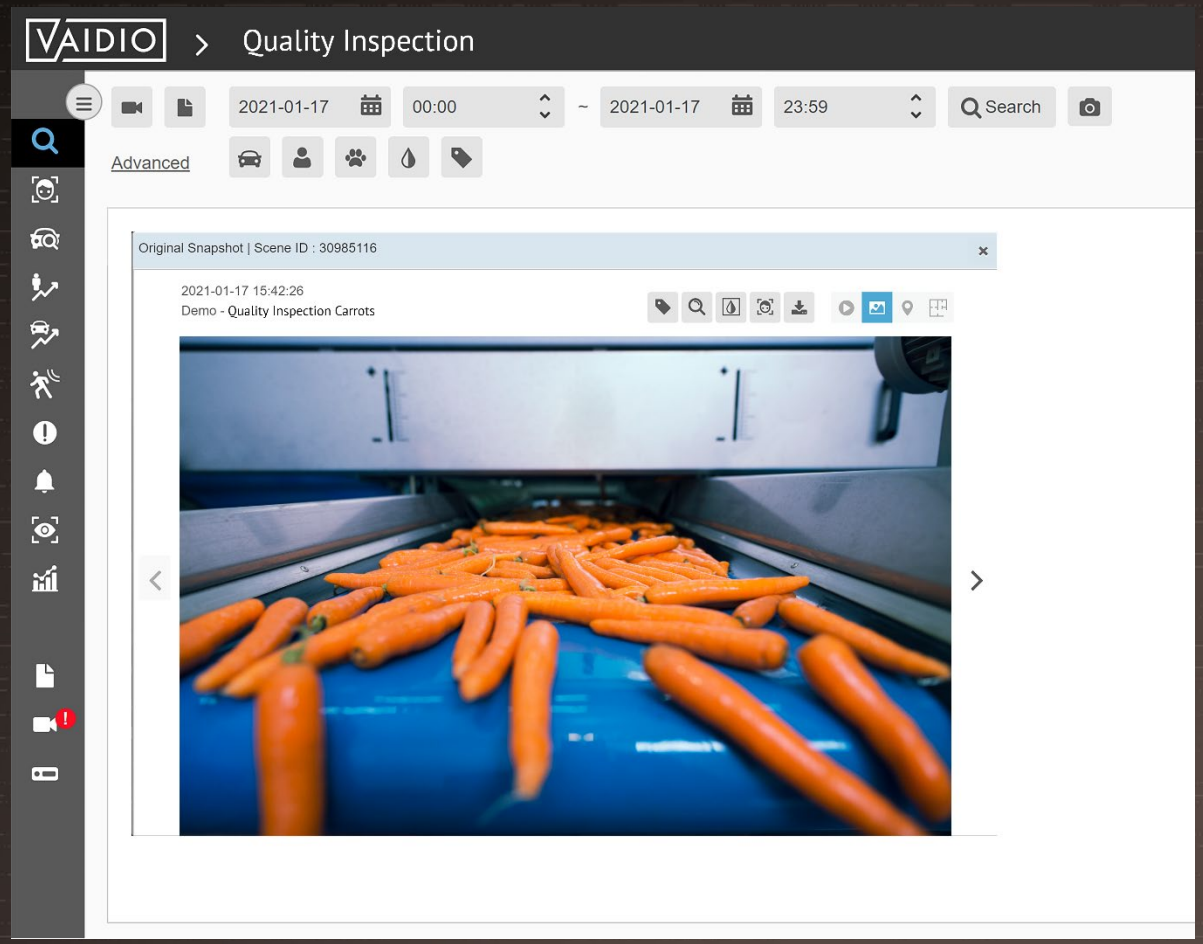
DETECT ABNORMALITIES IN REAL-TIME AND SEND ALERTS TO OPERATORS

PREVENT PRODUCT DEFECTS AND RECALLS TO MINIMIZE FINANCIAL AND REPUTATIONAL DAMAGE

GENERATE REPORTS TO ANALYZE PRODUCT QUALITY DATA

VAIDIO™

PRODUCT QUALITY



VAIDIO AI-ENABLED ANALYTICS DETECTS IMPERFECTIONS ON FRUITS AND VEGETABLES

BY APPLYING VAIDIO PREDICTIVE ANALYTICS, THE FRUITS AND VEGETABLES MANUFACTURER CAN TAKE A PRO-ACTIVE APPROACH TO AVOID THAT LOWER QUALITY PRODUCTS LEAVE THE FACTORY.

THE FRUITS AND VEGETABLES MANUFACTURER IS ABLE TO GENERATE REPORTS AND ANALYZE THE PRODUCT QUALITY OF THE DIFFERENT SUPPLIERS

VAIDIO HELPS TO IMPROVE PRODUCT QUALITY AND INCREASE CONSUMER SATISFACTION

USE CASE VEGETABLES FACTORY

VAIDIO™

INTELLIGENT MAINTENANCE

PREDICT AND PREPARE FOR PLANT MACHINERY FAILURE

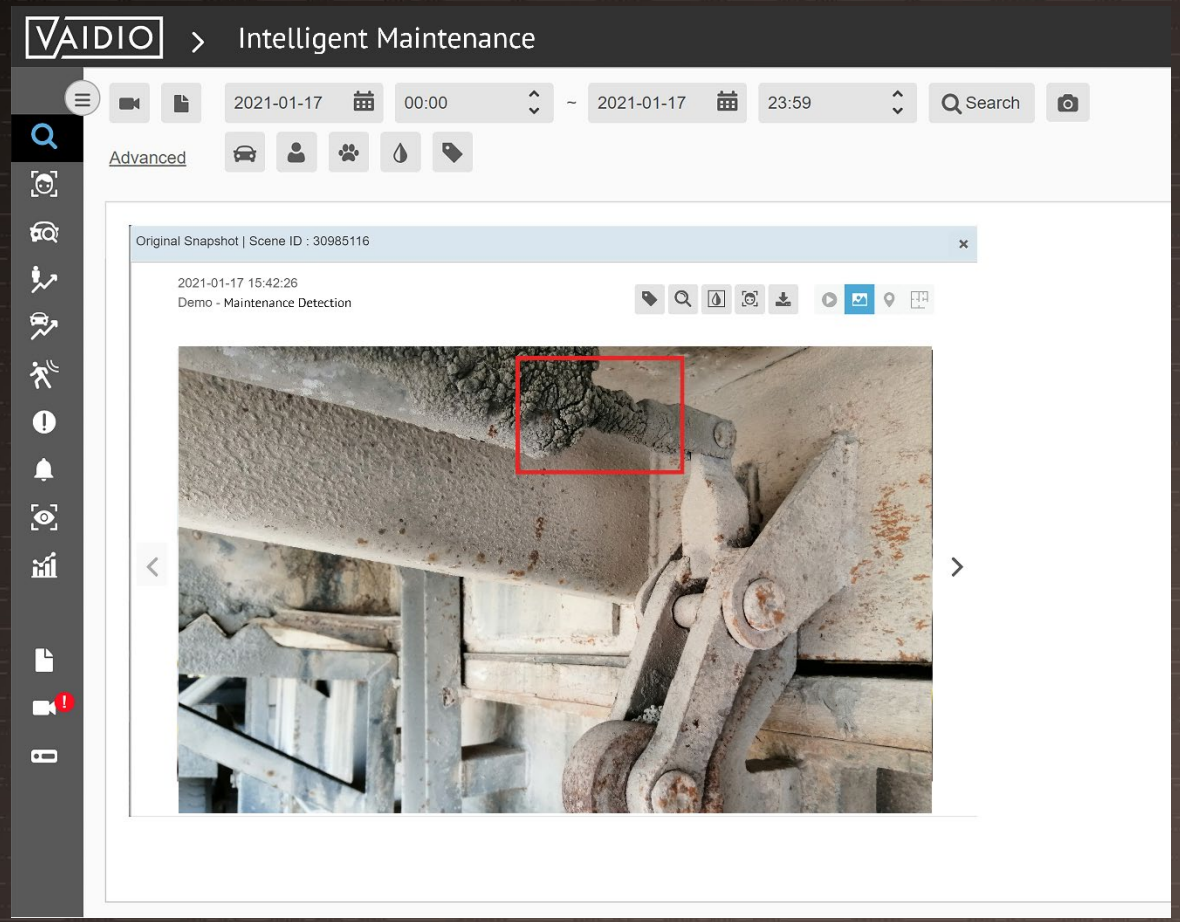
SPOT EARLY SIGNS OF FAILING PARTS AND REDUCE OR AVOID DOWNTIME OF MACHINERY

USE VIDEO IMAGES TO DETECT ABNORMALITIES SUCH AS INCREASING TEMPERATURE, ABNORMAL PRESSURE READINGS OR OTHER OPERATIONAL PARAMETERS

GENERATE REPORTS TO ANALYZE ROOT CAUSES AND IDENTIFY DRIVERS OF MACHINERY DOWNTIME TO PREVENT FUTURE BREAKDOWNS

VAIDIO™

INTELLIGENT MAINTENANCE



VAIDIO DETECTS ABNORMALITIES DURING MACHINE OPERATIONS TO GIVE THE STONE MANUFACTURER A TOOL TO ASSESS THE IMPACT ON BREAKDOWN AND FAILURE RATE

BY APPLYING VAIDIO PREDICTIVE ANALYTICS, THE STONE MANUFACTURER IS ABLE TO MINIMIZE PRODUCTION LOSSES AND MAXIMIZE OVERALL EQUIPMENT EFFECTIVENESS

THE STONE MANUFACTURER IS ABLE TO GENERATE REPORTS AND ANALYZE THE DATA ON PAST FAILURES AND POSSIBLE CAUSES AND CAN PREDICT WHEN A NEXT ISSUE IS LIKELY TO OCCUR.

USE CASE STONE FACTORY

VAIDIO™

PRODUCTION

AI-ENABLED ANALYTICS HELP TO DETECT DEFECTS THROUGHOUT THE PRODUCTION PROCESS.

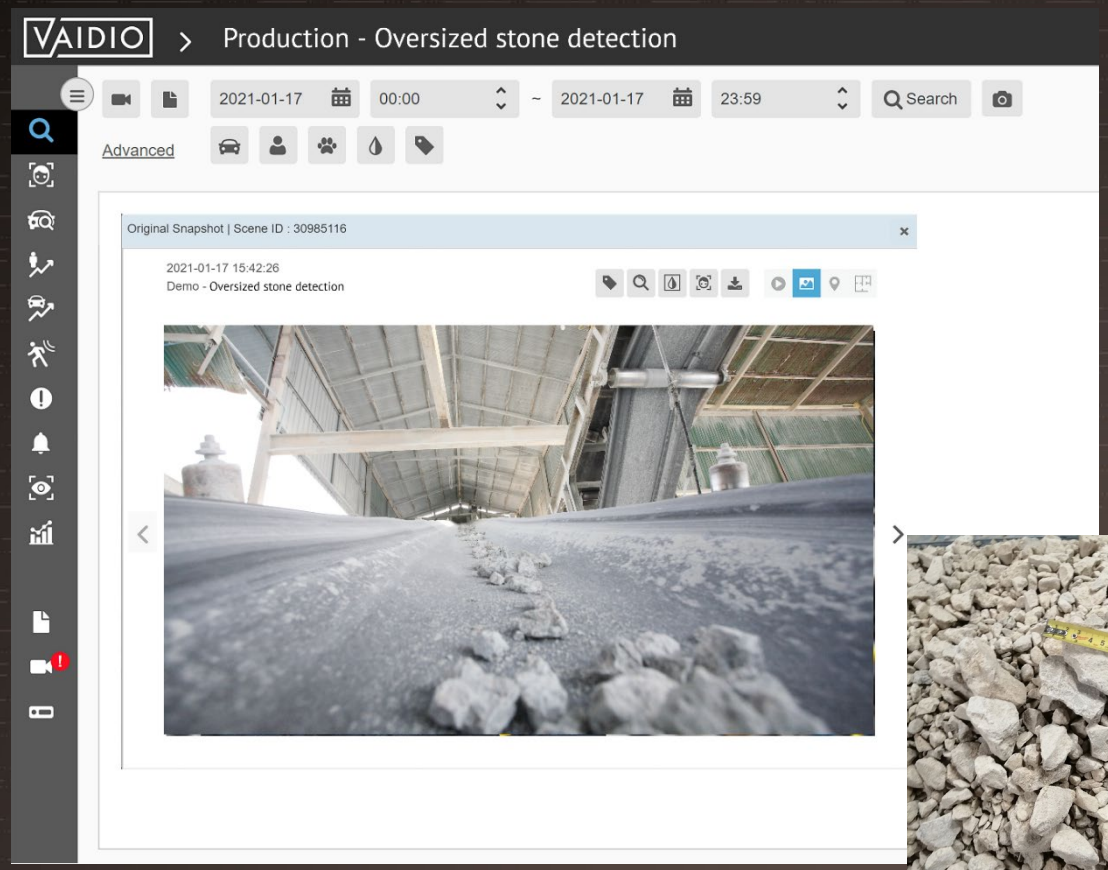
IMPROVING THROUGHPUT AND STREAMLINE THE MANUFACTURING PROCESS WITH AI ANALYTICS TO AUTOMATICALLY ADJUST RATE, SPEED OR ACCELERATION OF THE ASSEMBLY LINES

AI ANALYTICS CAN DELIVER IMPROVENTS IN THE PRODUCTION PROCESS WITHOUT CAPITAL INTENSIVE EQUIPMENT UPGRADES

TRAINED AI ANALYTICS MODELS ARE EASILY TRANSFERRED TO SIMILAR ASSETS AND FACTORY SITES

VAIDIO™

PRODUCTION



VAIDIO HELPS TO DETECT OVERSIZED STONES IN REAL TIME AND SEND OUT ALERTS TO STOP THE CONVEYOR BELT

VAIDIO SHIFTS THE MUNDANE TASK OF FILTERING OUT OVERSIZED STONES FROM FACTORY WORKER TO MACHINES

VAIDIO AI VISION PLATFORM CAN HELP TO DO THE STONE SORTING AUTOMATICALLY AND IN REAL-TIME BY INSTALLING CAMERAS AT KEY POINTS ALONG THE STONE FACTORY FLOOR

STONE ASSEMBLY LINES WORK BASED ON A SET OF PARAMETERS AND AI-ENABLED ANALYTICS THAT PROVIDE GUIDELINES TO PRODUCE THE BEST POSSIBLE END-PRODUCT

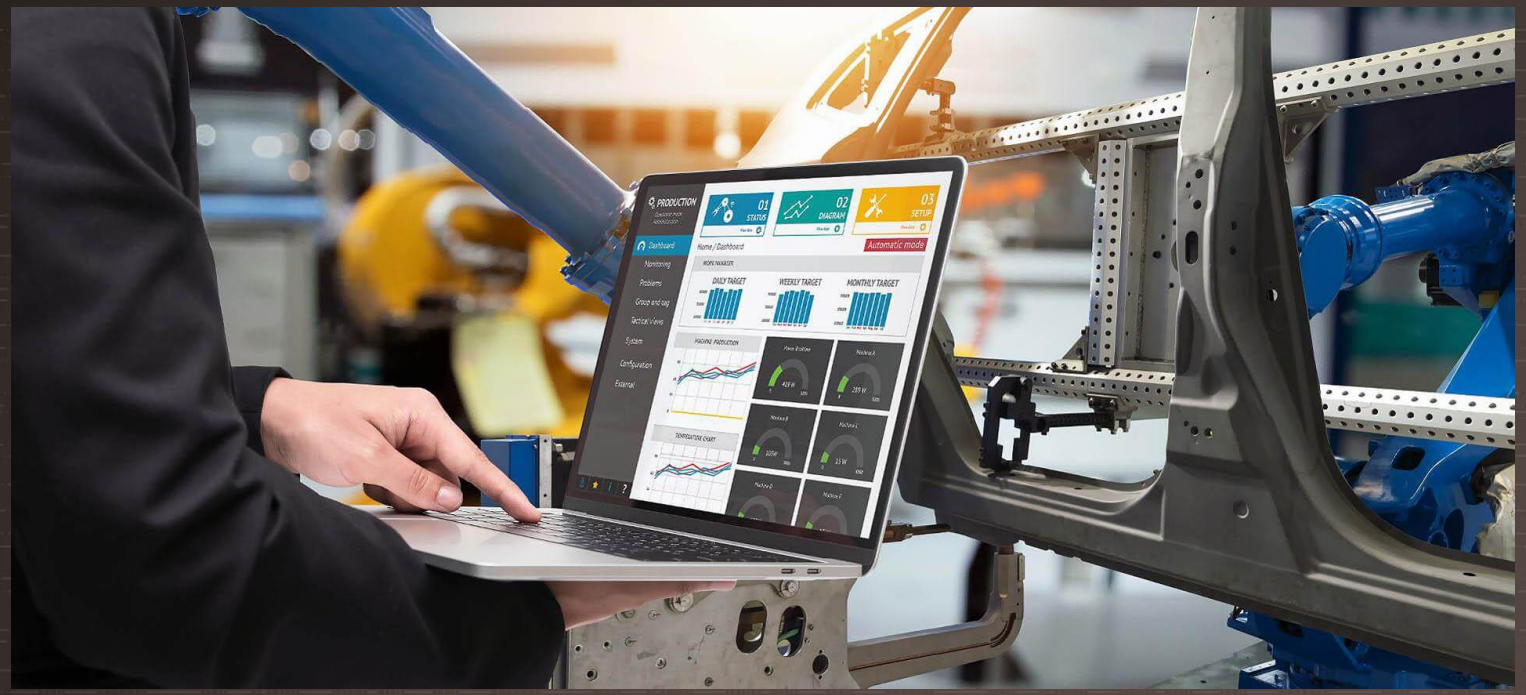
USE CASE STONE FACTORY

VAIDIO™

PRODUCT DEVELOPMENT

AI-ENABLED ANALYTICS CAN VALIDATE WHETHER INTRICATE GOODS HAVE BEEN PERFECTLY PRODUCED AND CALCULATE HOW MINOR CHANGES TO A PRODUCT WILL INFLUENCE SEVERAL DIFFERENT ASPECTS OF PERFORMANCE

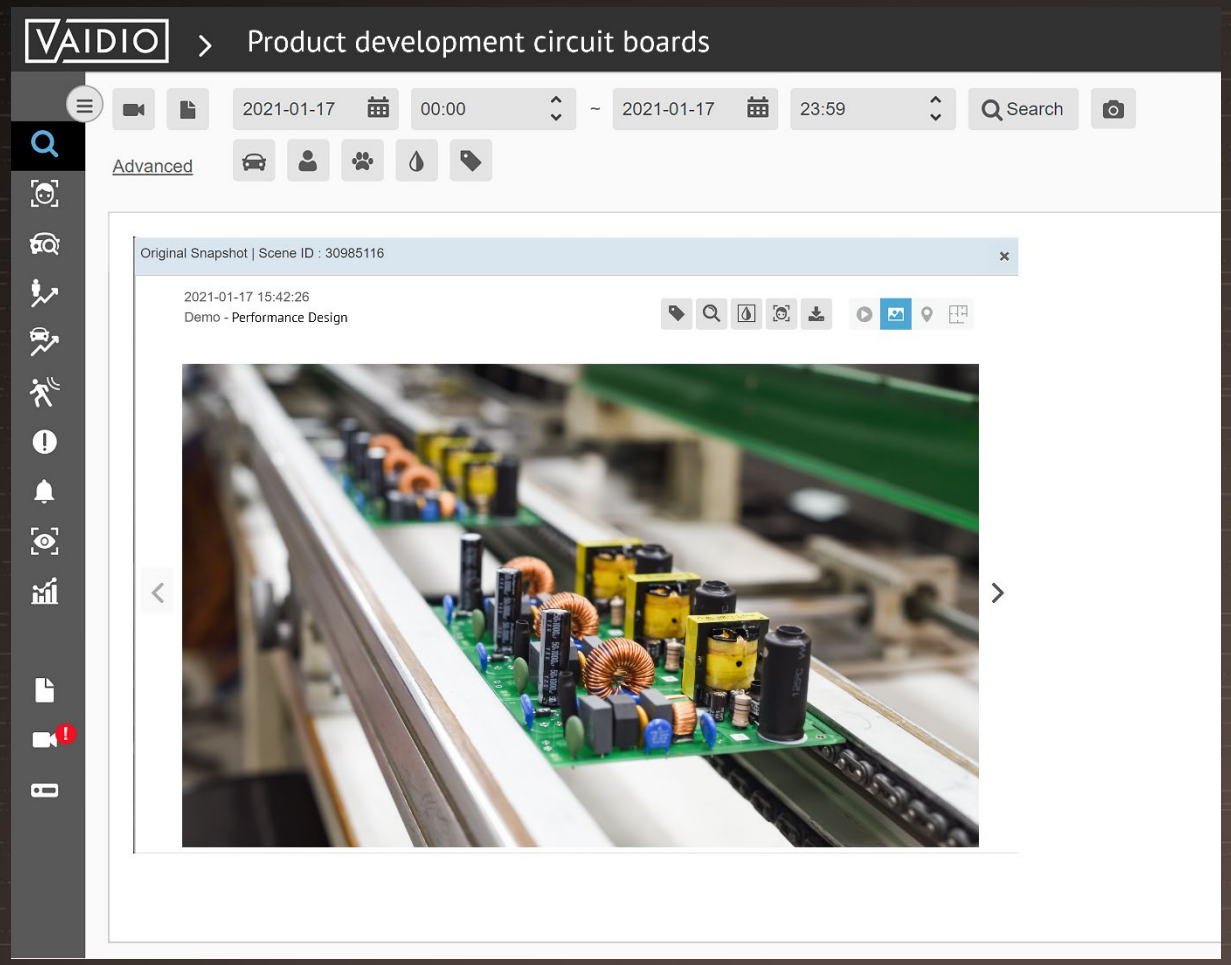
SMART MANUFACTURING PROCESSES USE AI TECHNOLOGY TO TAKE VARIATIONS IN THE ENVIRONMENT (LIKE TEMPERATURE) OR MATERIALS INTO ACCOUNT AND AUTOMATICALLY ADJUST TO CHANGING CONDITIONS



USING AI-ENABLED ANALYTICS IMPROVES QUALITY CONTROL, REDUCES COSTS AND INCREASES RELIABILITY

VAIDIO™

PRODUCT DEVELOPMENT



VAIDIO AI-ENABLED ANALYTICS CAN HELP AN ELECTRONICS MANUFACTURER TO TEST A CIRCUIT BOARD AND FIND BUGS OR OTHER DEVIATIONS

VAIDIO IS USING BEHAVIORAL DATA AS INPUT FOR NEW PRODUCT DESIGN AND DEVELOPMENT AND IS ABLE TO DETERMINE DURING THE DESIGN PHASE IF A DESIGN WILL BE SUCCESSFUL OR NOT

DIGITAL PRODUCT DEVELOPMENT WITH VAIDIO AI-ENABLED ANALYTICS BOOST EFFICIENCY AND REDUCE PRODUCT LAUNCH TIME

USE CASE CIRCUIT BOARD FACTORY

VAIDIO™

SUPPLY CHAIN MANAGEMENT

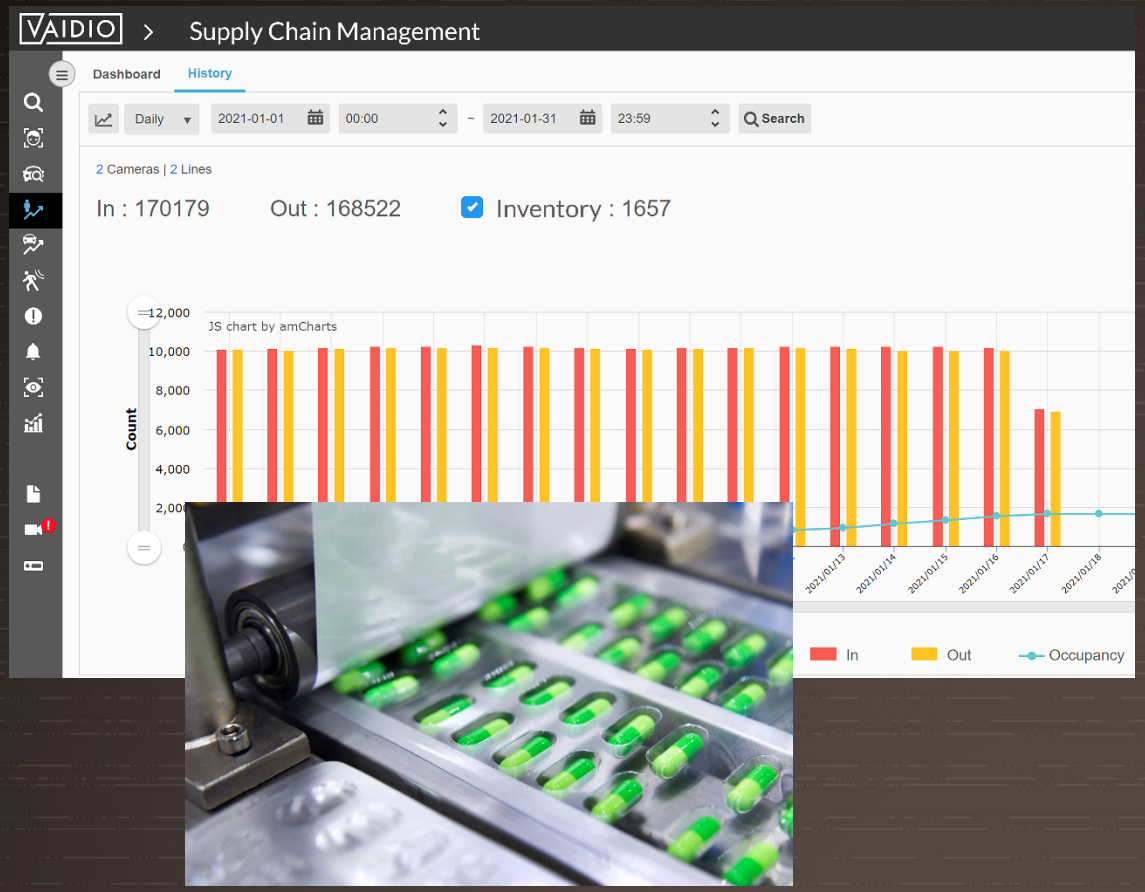
AI-ENABLED ANALYTICS ARE USED TO PREDICT CHANGES IN CONSUMER DEMAND AND ADJUST PRODUCTION SCHEDULES AND RAW MATERIAL PROCUREMENT BASED ON THIS CHANGES

TRAIN AI-BASED SYSTEMS USING HISTORICAL SALES DATA, WEATHER DATA, FINANCIAL DATA, MACRO-ECONOMIC DATA AND THIRD-PARTY DATA SUCH AS SOCIAL MEDIA TO PREDICT FUTURE CONSUMER DEMAND

AI-ENABLED ANALYTICS HELP MANUFACTURERS TO TARGET END CUSTOMERS MORE EFFECTIVELY AND PROVIDE THEM WITH THE PRODUCTS AND SERVICES THEY NEED

VAIDIO™

SUPPLY CHAIN MANAGEMENT



VAIDIO AI-ENABLED ANALYTICS HELPS PHARMACEUTICAL PRODUCERS TO BETTER MATCH DEMAND AND SUPPLY

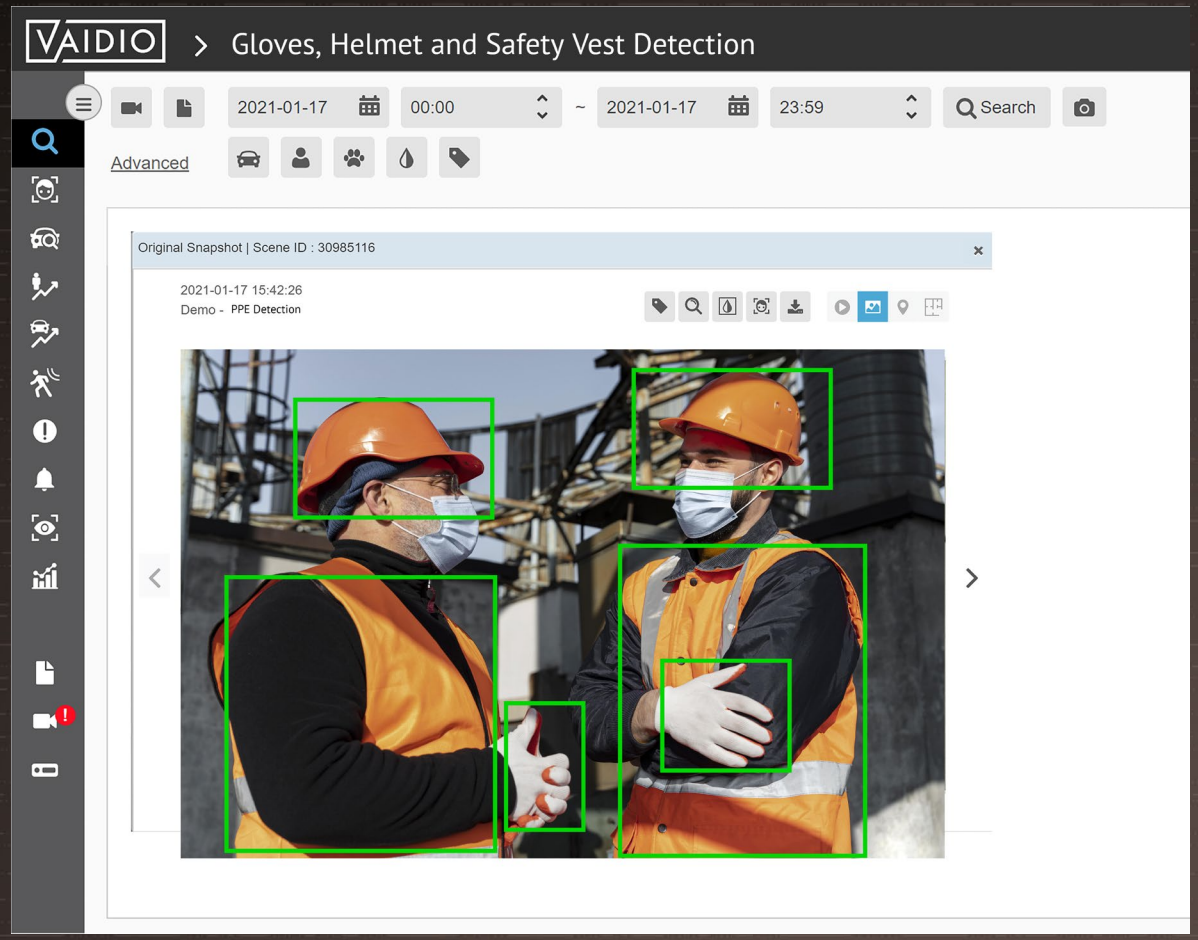
PHARMACEUTICAL PRODUCERS USE VAIDIO PREDICTIVE ANALYSIS TO PLAN AHEAD AND PREVENT OVERSTOCKING, AVOID STOCK-OUTS AND REDUCE WASTE (MEDICINES WITH EXPERATION DATE)

VAIDIO AI ANALYTICS LET PHARMACEUTICAL PRODUCERS FOCUS ON BUILDING DIFFERENTIATED FORECASTING STRATEGIES TO MEET AND EXCEED CUSTOMERS EXPECTATIONS

USE CASE PHARMACEUTICAL PRODUCER

VAIDIO™

SAFETY



DETECT FACTORY WORKERS THAT ARE NOT WEARING GLOVES, HELMET AND SAFETY VEST

GRANT OR DENY WORKERS ACCESS TO THE FACTORY FLOOR BASED ON WHETHER PROTECTIVE GEAR IS IDENTIFIED OR NOT

DETECT A WORKER THAT FALLS IN REAL-TIME AND SEND AN ALERT TO THE OPERATOR

RECEIVE REAL-TIME ALERTS WHEN FACTORY WORKERS ARE SMOKING IN AREAS WHERE SMOKING IS PROHIBITED

IMPROVE SAFETY ON THE FACTORY FLOOR AND GIVE FACTORY WORKERS PEACE OF MIND

VAIDIO™

SAFETY

Uniform recognition

Glove usage

People Counting

Person Smoking

Helmet usage

Fall Detection

VAIDIO™

ENERGY MANAGEMENT

VAIDIO AI-ENABLED ENERGY MANAGEMENT PROVIDES REAL-TIME VISIBILITY AND INSIGHTS IN THE ENERGY USE THROUGHOUT THE PRODUCTION PROCESS TO MINIMIZE ENERGY CONSUMPTION AND UTILITIES COSTS

VAIDIO AI-ENABLED EFFICIENT ENERGY MANAGEMENT IS OF VITAL IMPORTANCE TO THE ENVIRONMENT & THE SUSTAINABILITY OF OUR PLANET

USE VAIDIO AI ANALYTICS TO MAXIMIZE FACTORY OUTPUTS BY IDENTIFYING THE OPTIMUM PROCESS SET-POINTS

GENERATE REPORTS TO ANALYZE ENERGY CONSUMPTION AND IDENTIFY IF THERE IS ROOM FOR ADDITIONAL ENERGY SAVINGS

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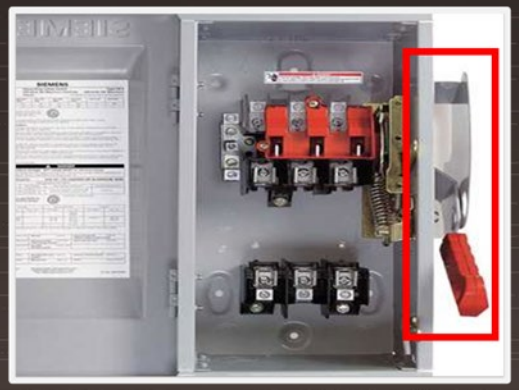
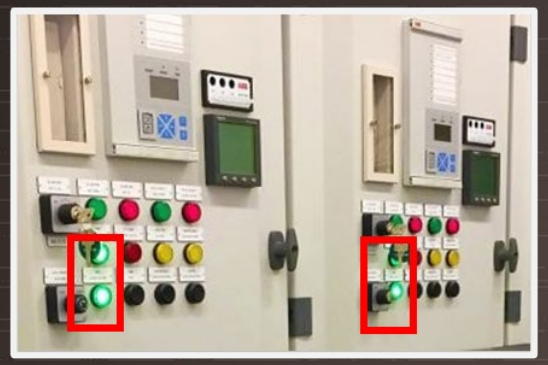
ENERGY MANAGEMENT

Breaker status



Knife switch position

Needle position / fuel level alarm



LED status

Temperature detection

Switch status (on demand or change)

EQUIPMENT STATUS

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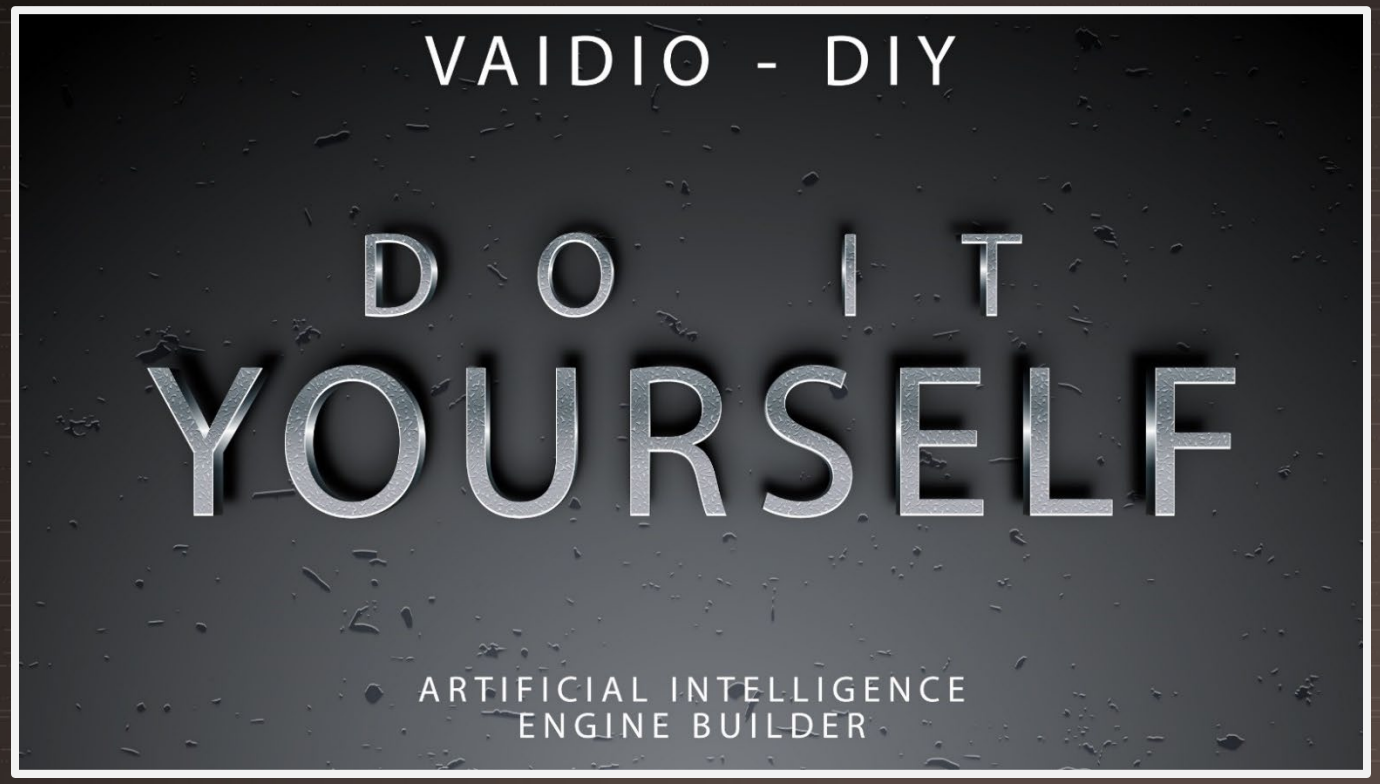
VAIDIO TOOL KIT



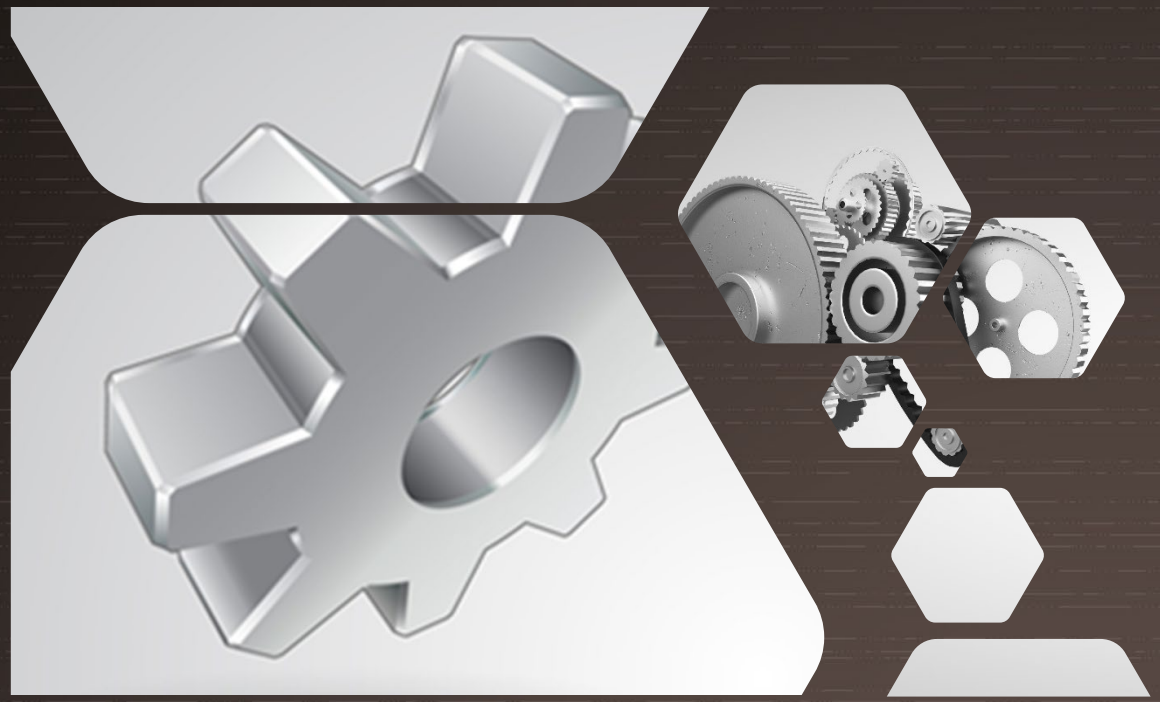
TRAIN YOUR OWN OBJECT DETECTION MODEL

INPUT: USER SELECTED FOOTAGE

OUTPUT: READY-TO-USE AI MODEL

VAIDIO™

VAIDIO TOOL KIT



ADVANTAGES

EASE-OF-USE
NO KNOWLEDGE REQUIRED AROUND NEURAL NETWORKS, AI LIBRARIES, ALGORITHMS AND DATASETS

VERSATILITY
TRAIN A MODEL FOR ANY OBJECT

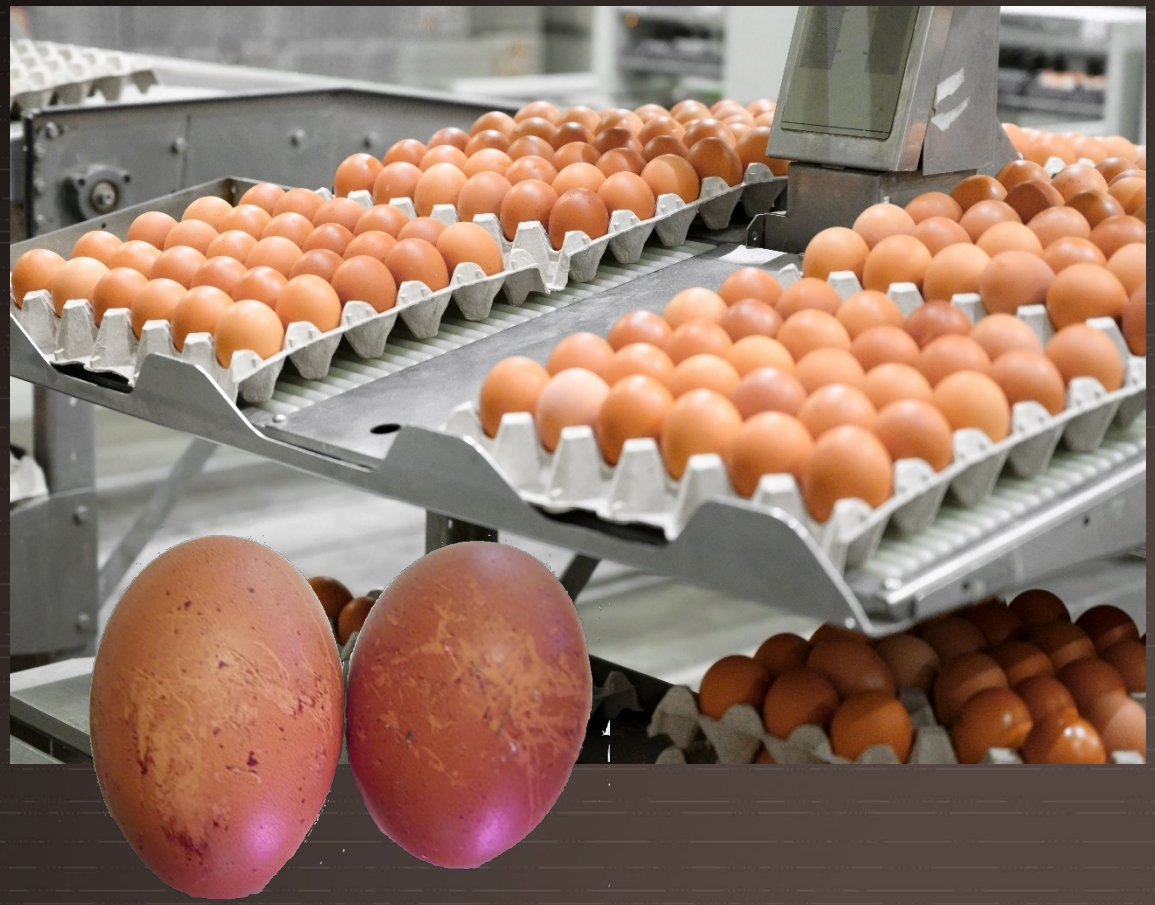
INTERFACE
INTUITIVE GRAPHICAL USER INTERFACE

SECURITY
NO DATA SHARING TO 3rd-PARTY LABELLING SERVICES

CUSTOMIZATION
NO CUSTOMIZATION FEE FOR CUSTOMER SPECIFIC REQUESTS

VAIDIO™

USE CASE VAIDIO-DIY



CHALLENGE

DETECT SCRATCHED AND BURSTED EGGS

SOLUTION

TRAIN YOUR OWN EGGS QUALITY MODEL WITH VAIDIO-DIY

BENEFITS

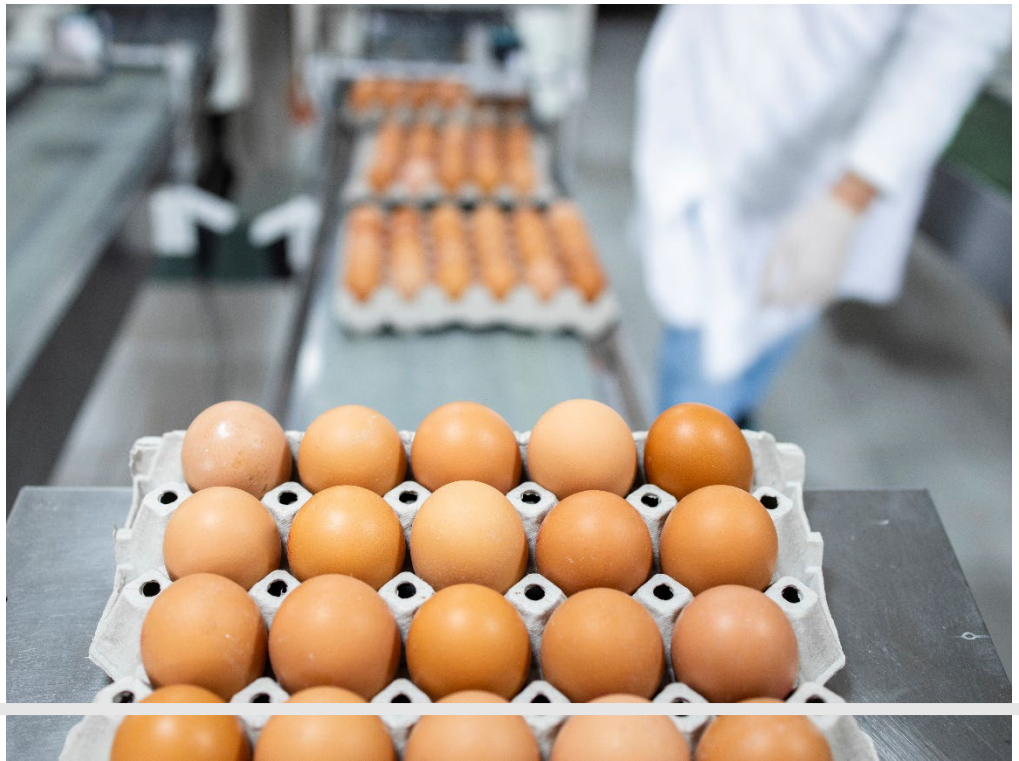
- DELIVER HIGH QUALITY EGGS
- PREVENT PRODUCT RECALLS
- PROTECT AGAINST FINANCIAL CLAIMS AND REPUTATIONAL DAMAGE

AI QUALITY INSPECTION EGGS

VAIDIO™

USE CASE VAIDIO-DIY

DETECT IMPERFECTIONS ON EGGS



INTEGRATION CAPABILITIES

CAMERA INTEGRATION

CLOUD PLATFORM INTEGRATION

ERP INTEGRATION

IO DEVICE INTEGRATION

SOFTWARE SERVICES

VMS INTEGRATION

VAIDIO™

AI MANUFACTURING

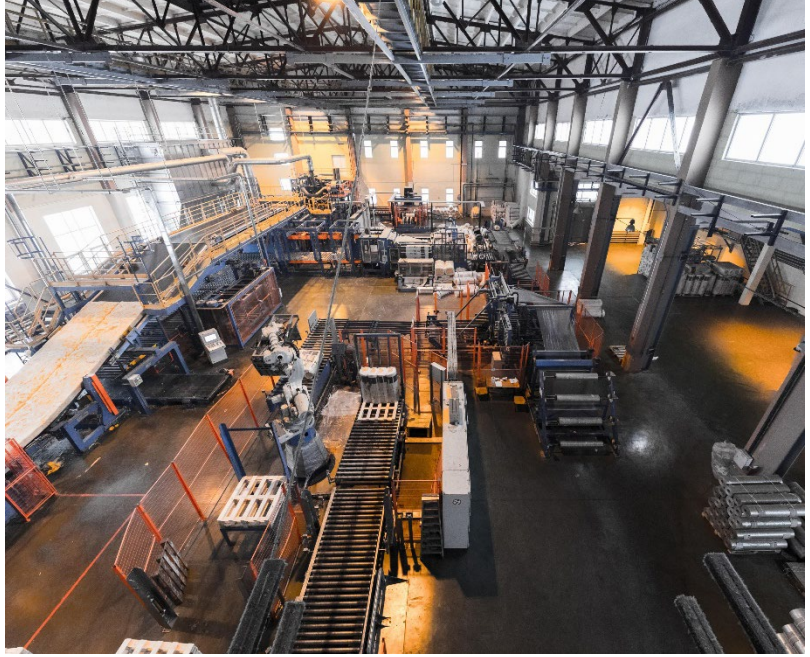
VAIDIO BENEFITS & SAVINGS

VAIDIO AI-ENABLED VIDEO ANALYTICS PROVIDES ACTIONABLE DATA TO ANALYZE & OPTIMIZE DECISION MAKING AROUND QUALITY, MAINTENANCE, PRODUCTION, PRODUCT DEVELOPMENT AND SUPPLY CHAIN FROM SOURCE TO FINISHED PRODUCT.

VAIDIO AI-ENABLED ANALYTICS HELP TO IMPROVE PERFORMANCE ACROSS THE ENTIRE PRODUCTION PROCESS

VAIDIO REAL-TIME ALERTS AND PRO-ACTIVE FOLLOW UP WILL IMPROVE PRODUCTIVITY AND REDUCE QUALITY ISSUES AND DOWNTIME TO A MINIMUM

VAIDIO AI-ENABLED VIDEO ANALYTICS WILL REDUCE THE NUMBER OF FALSE POSITIVES TO A MINIMUM – SAVE TIME AND RESOURCES FROM INVESTIGATING FALSE ALERTS

VAIDIO AI-ENABLED VIDEO ANALYTICS HELP MAINTAIN THE SAFETY IN FACTORIES AND IMPROVE WORKERS SATISFACTION BY SHIFTING MONDANE TASKS TO MACHINES

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