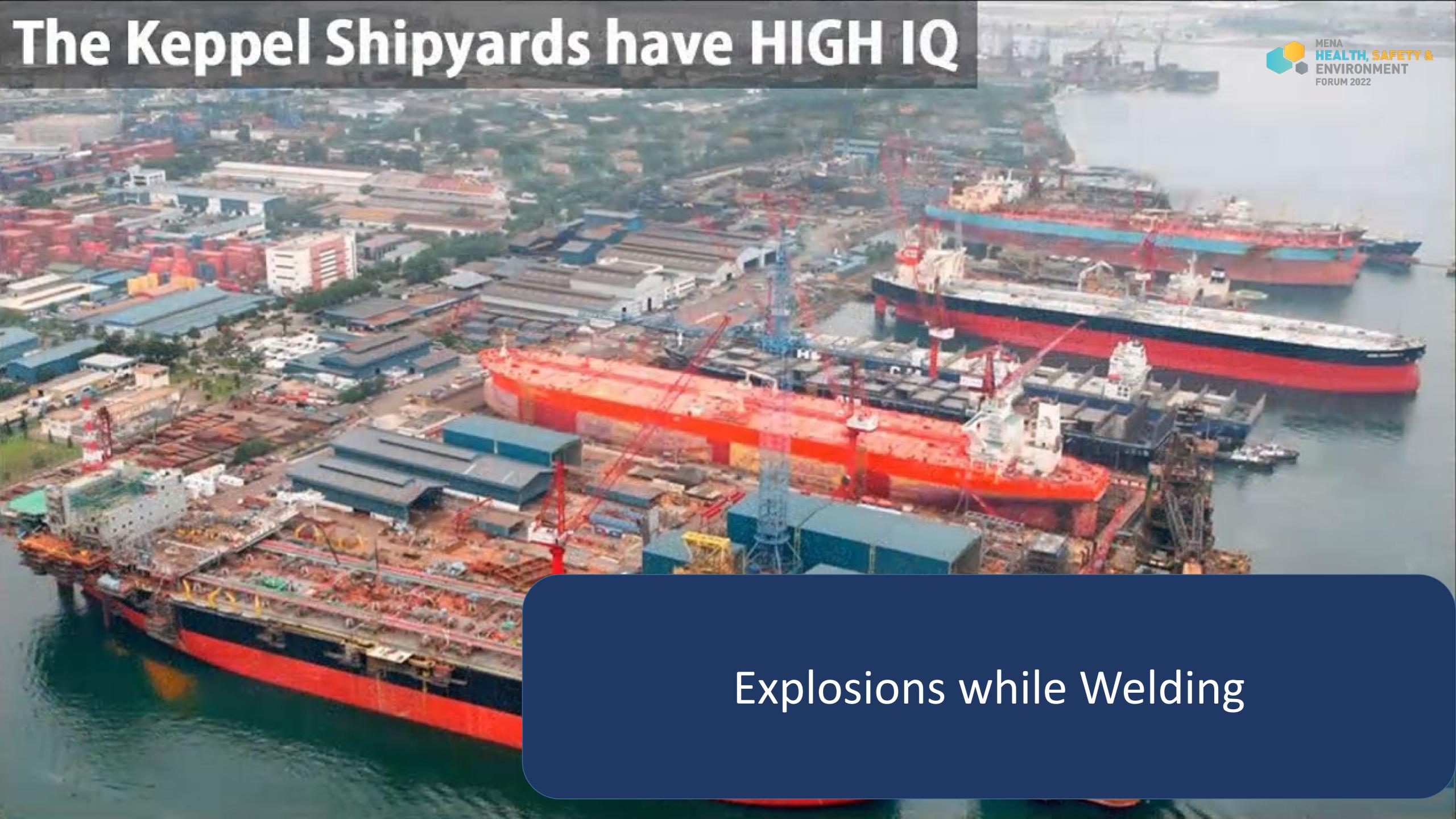


The Future of Digitization for HSE

September 2022

Dr Rustom Kanga Co-Founder/ CEO









IOCL, India

Managing Road Traffic







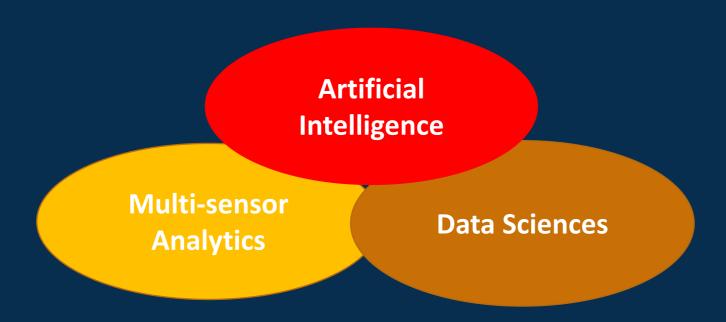
Understanding the Situation

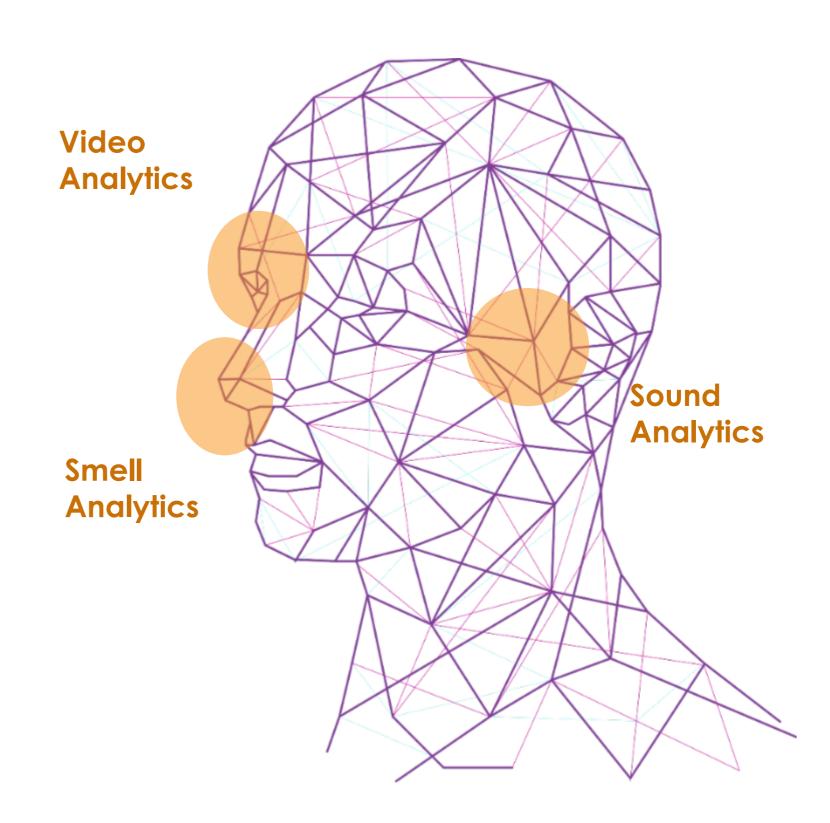
Preventative Action

Autonomous Real Time Response



Multi-sensory Artificial Intelligence



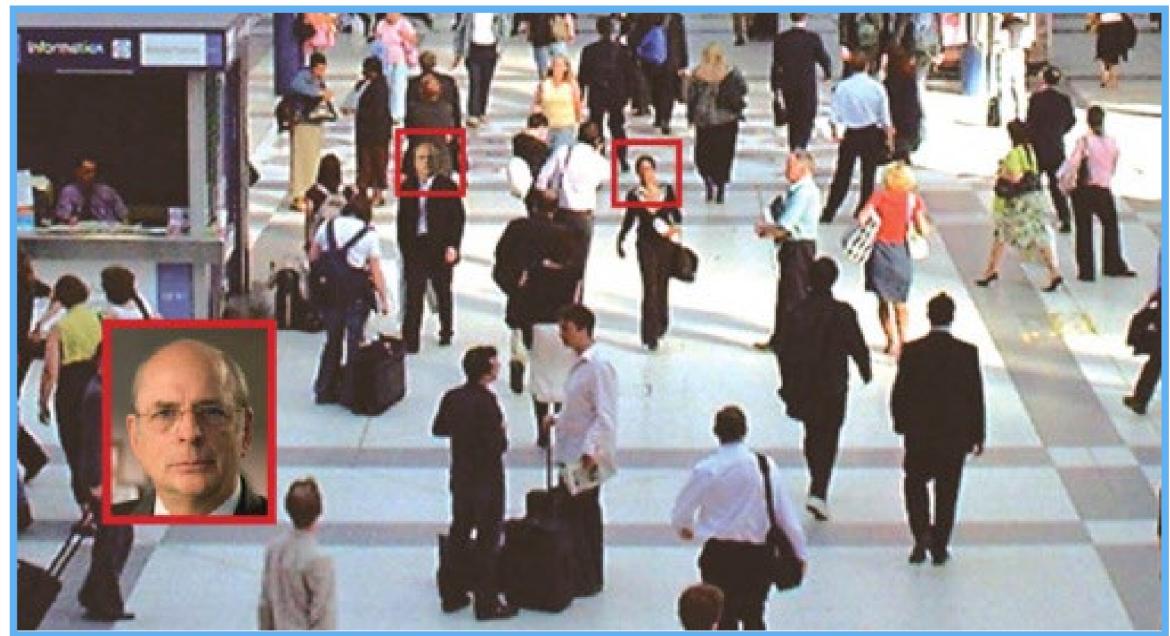




Complex Behaviour Analytics & Comprehensive Recognition Capabilities









SMELL ANALYTICS

400 Different Molecules in Coffee

Petrochemicals can be far more complex





What is Easy

What is Difficult

• What is Impossible

COMMON REQUIREMENTS

SAFETY FOR PEOPLE

- Contactless reliable Access Control
- PPE Detection
- Liquid Spills
- Slip and Fall
- Evacuation Management
- Object Detection e.g. tools left behind
- Intrusion & Vandalism Detection



Complex Analytics



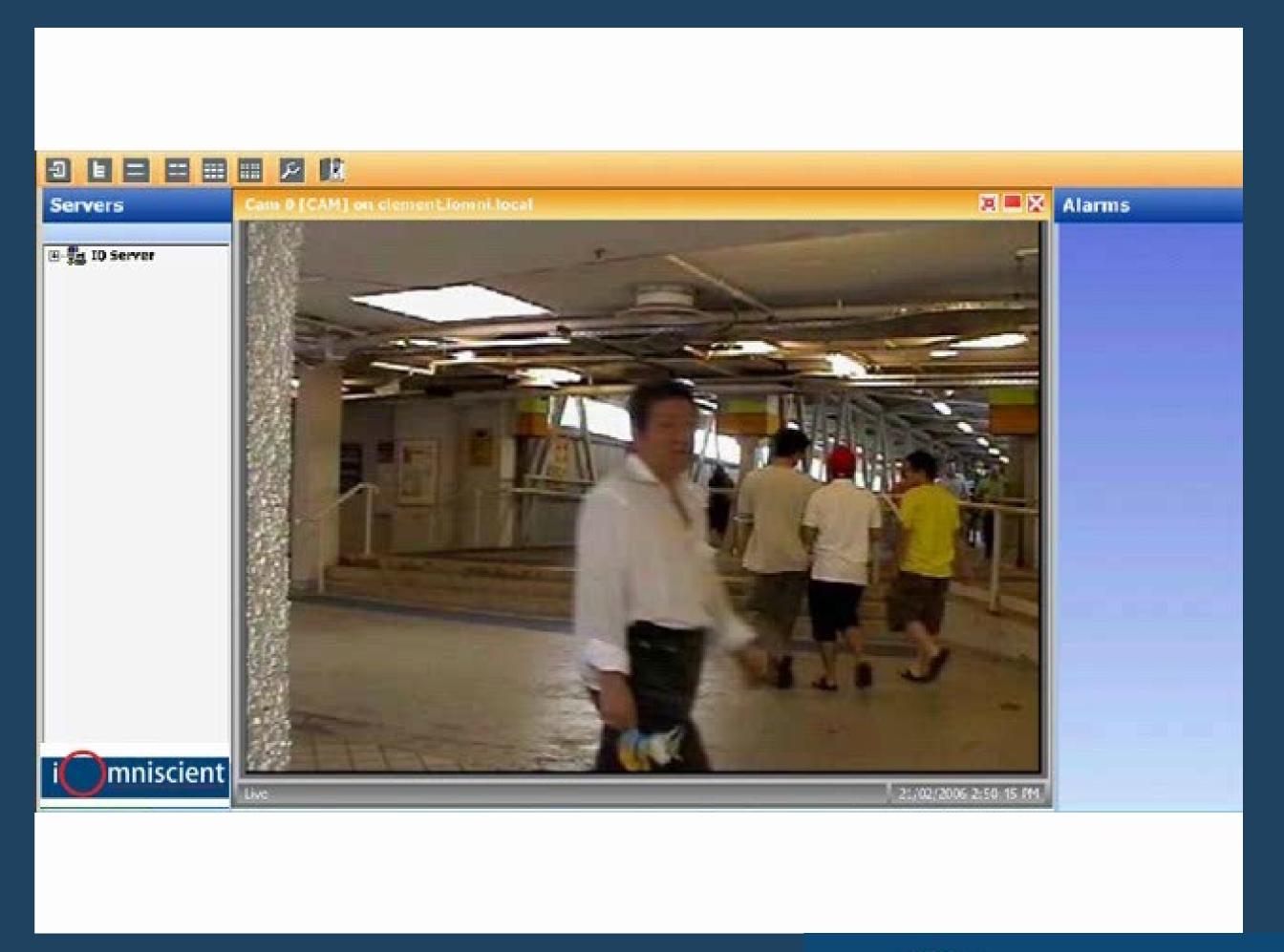




Safety:

- Wet Floors
- Slip and Fall Detection







COMMON REQUIREMENTS

SAFETY OF ASSETS

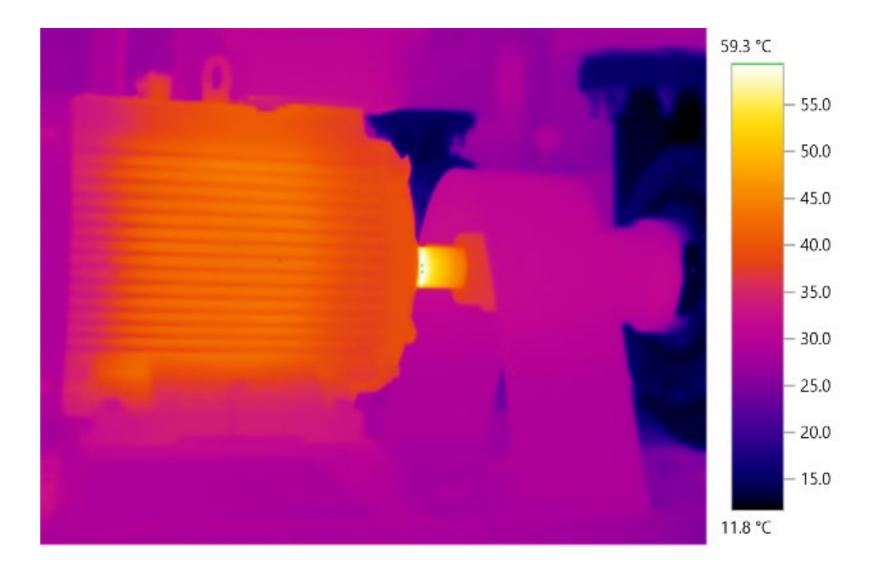
- Preventive Maintenance
- Gas Leaks
- Smoke and Fire Detection
- Quality Assurance



PREDICTIVE MAINTENANCE



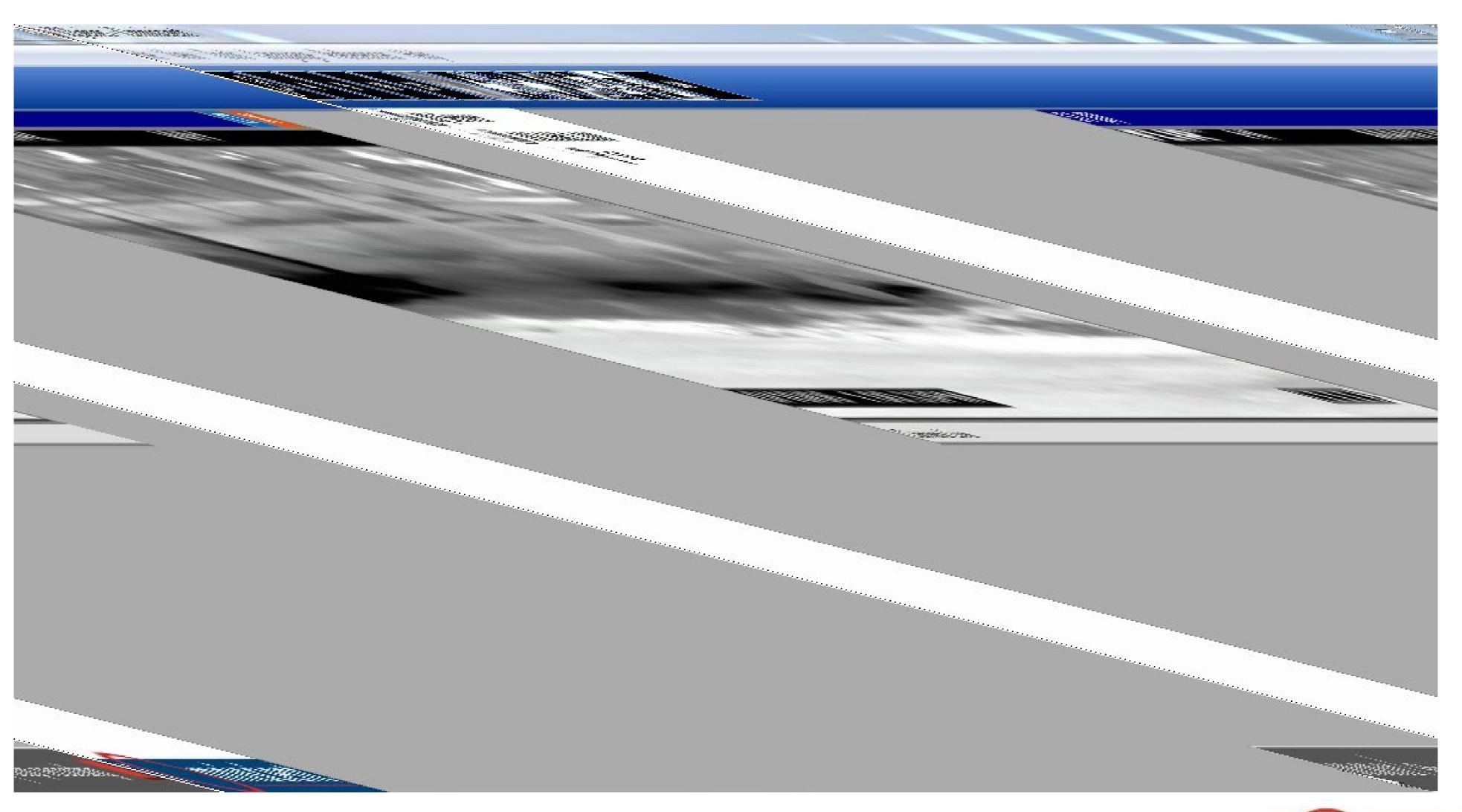






Gas Leak Detection











QA in the

Dairy Industry



COMMON REQUIREMENTS

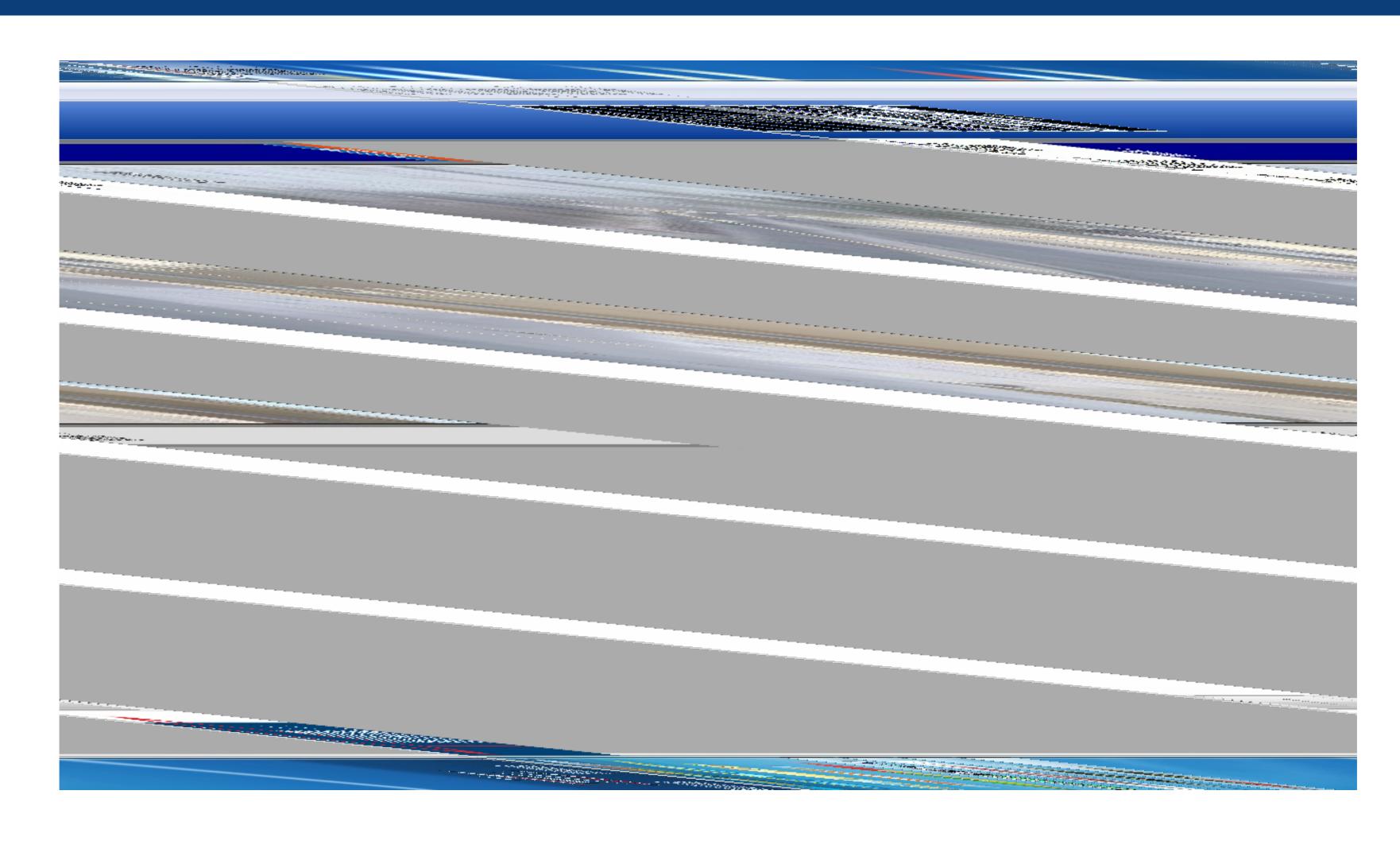
SAFETY ON THE ROADS

- Parking Management
- Speed Management
- Traffic Incident



iQ-Roads - Speeding





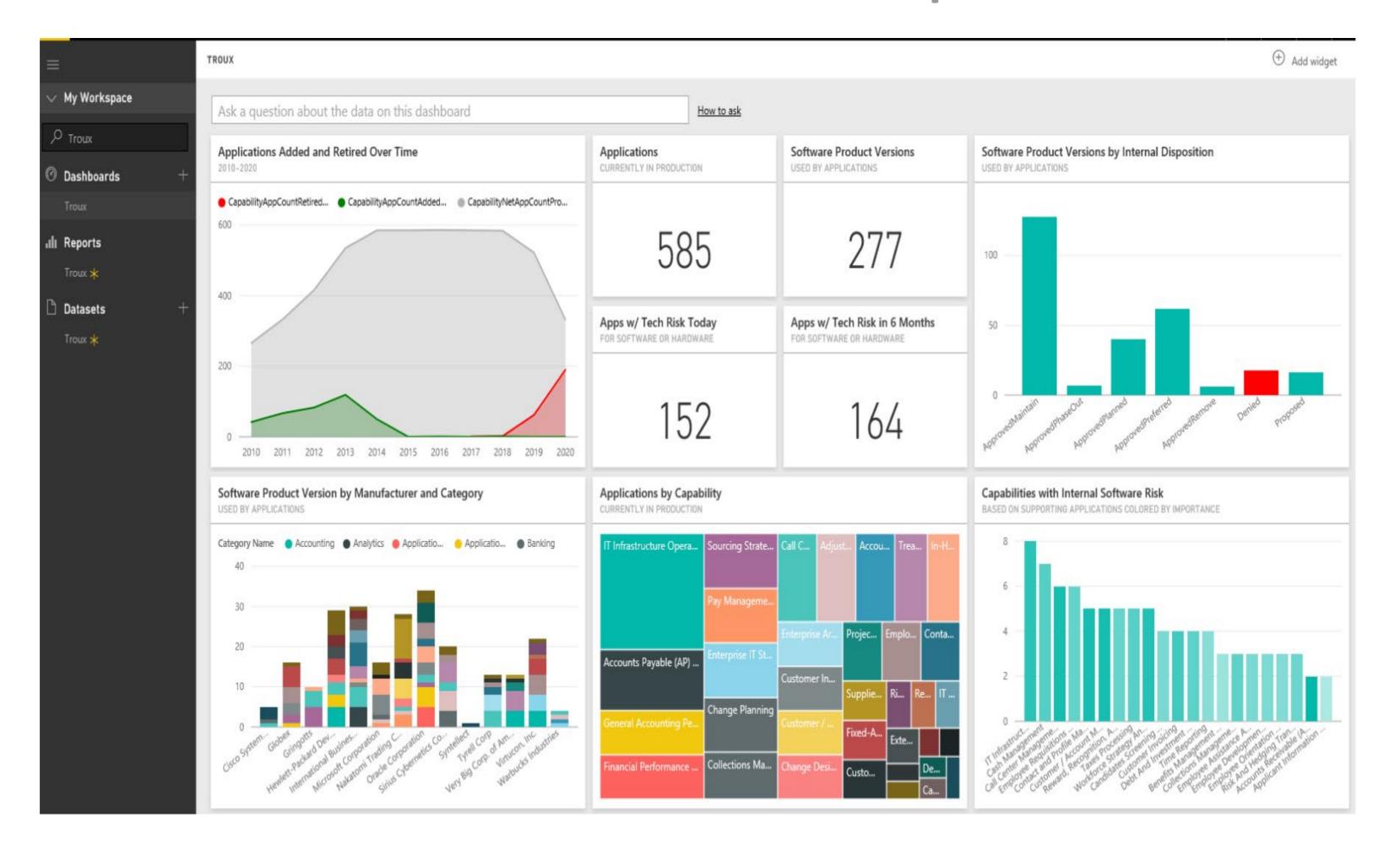


Drilling and Extraction Operations Calculate occupancy of the platform by monitoring entry and exit points **Evacuation Management** Manage access to secure locations Detect spills, or leakages of oil or any other hazardous material **Safety** Verify workers are wearing safety helmets and jackets Verify workers are clear of operational Security cranes Prevent unauthorized access and Exhaust and emissions to spot dangers tailgating into vital facilities **Fever Detection** Validate the identity of all workers as Detect smoke and fire they board the platform Detect tools, equipment, and tripping or Detect boats and ships approaching the falling hazards platform particularly at night Detect running in hazardous areas where slips and falls can occur

Comprehensive Information



Dashboard Example

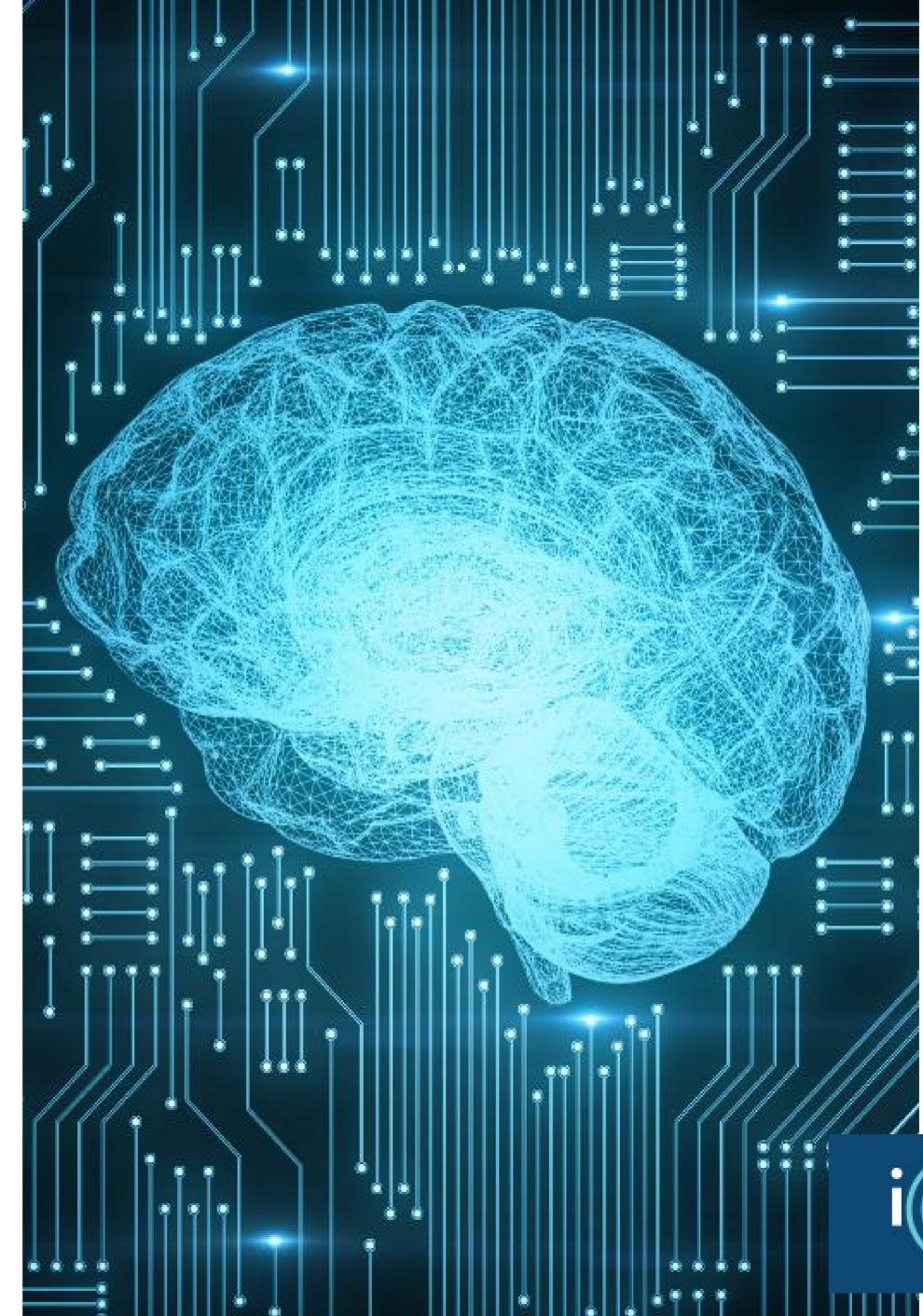




Characteristics of the system



Situation Analysis













Detection despite Obscuration

Generally Video Analytics are designed to work in relatively empty scenes.

iOmniscient has the internationally patented ability to operate in crowds or when an object is obscured. This includes:

- Theft when object is obscured
- Smoke & Fire Detection IN A CROWD
- Object Abandoned and obscured
- Counting IN A CROWD
- Face Recognition IN A CROWD
- Fever Detection IN A CROWD



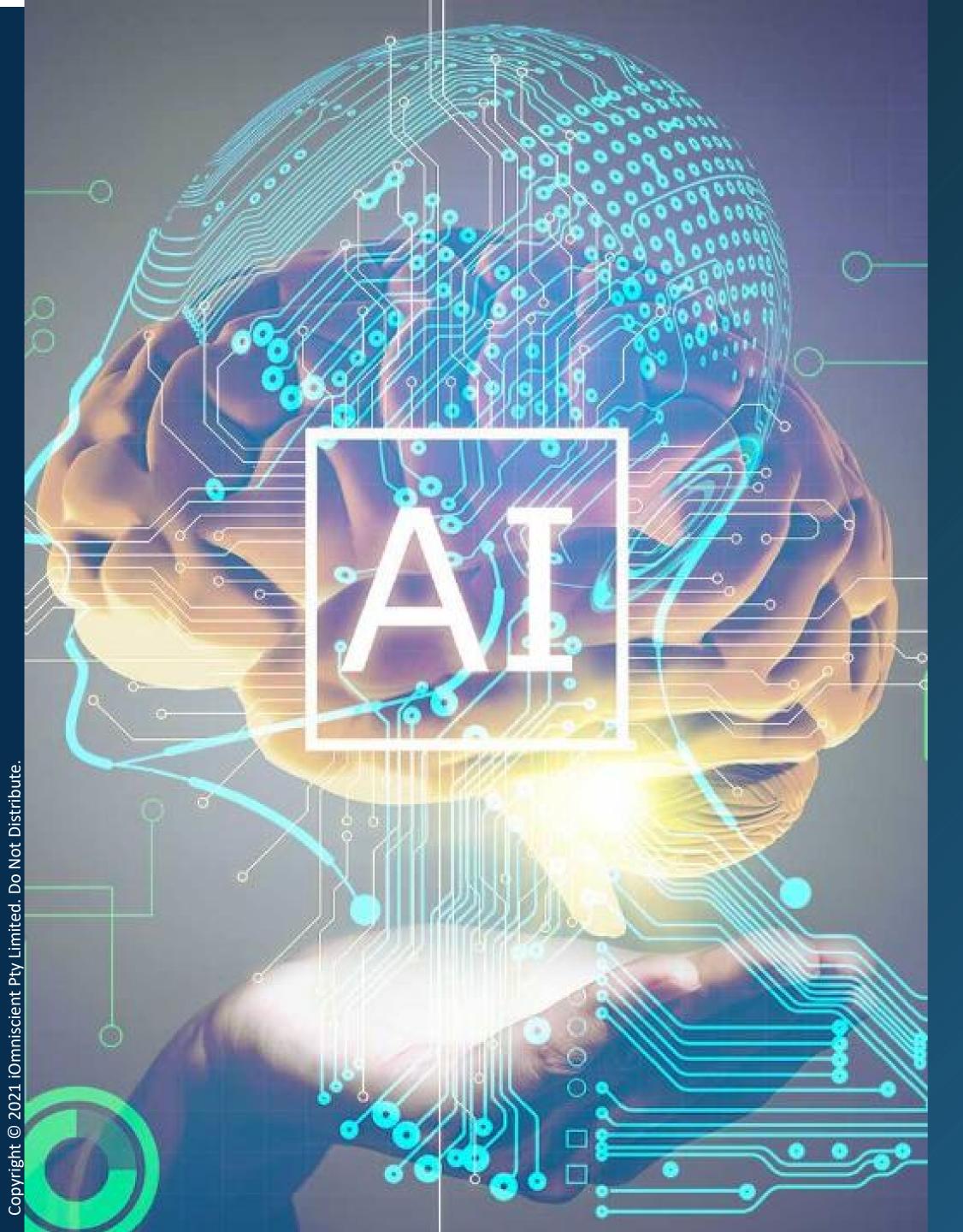




NAMS

(Nuisance Alarm Minimization System)







2nd Generation Al

Training with a Dataset of 10 rather than 10,000

Allows for Fast Deployment

Computing Light – No GPUs



Wildfaces.ai

New iOmniscient subsidiary focussed on 3rd Generation Al

Analytics ON THE MOVE















Autonomous Operations for Security and Safety

Detect Event
Track persons involved
Alert nearest Responder



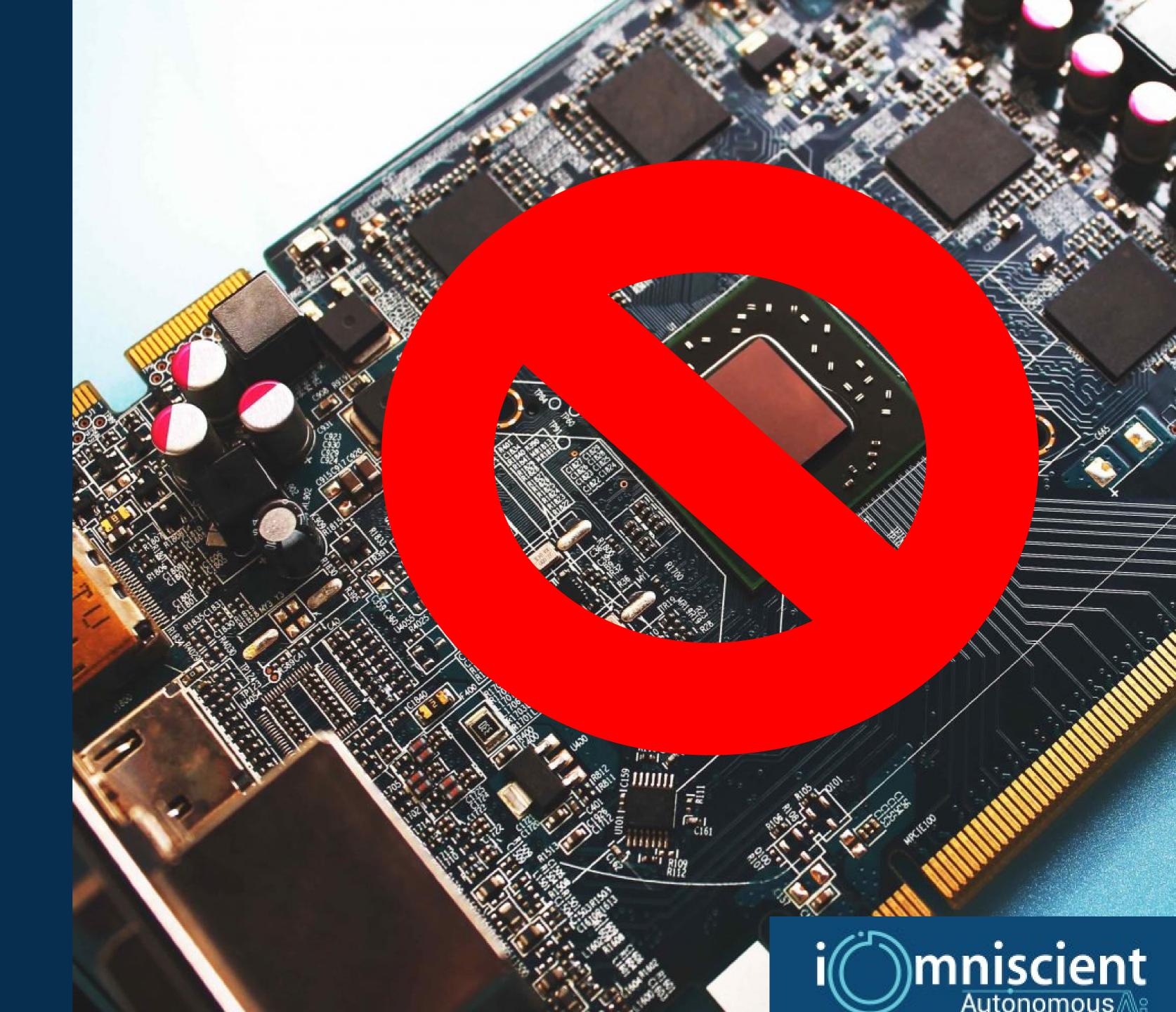






Save Infrastructure costs by Design

- 90% less storage
- 90% less network bandwidth
- No GPU
- 3x less manpower



Project Cost \$2,000,000

Included
Storage Cost (with industry standard compression)

\$880,000

Cost of iOmniscient Intelligence

+\$600,000

STORAGE SAVING

THROUGH

SMART

COMPRESSION -\$800,000

FINAL COST \$1,800,000









BP Gas
Pipelines,
Azerbaijan
and Canada



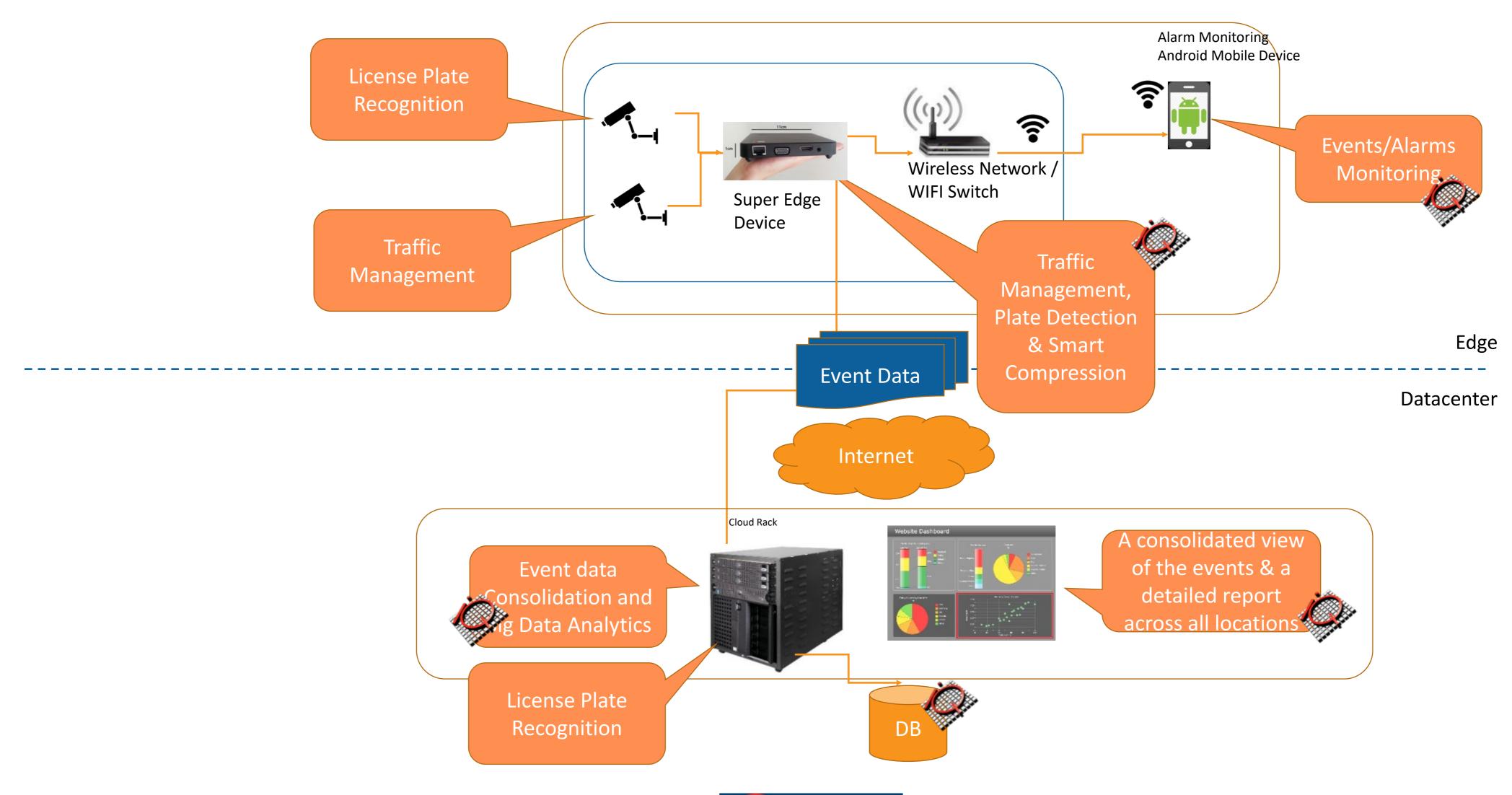






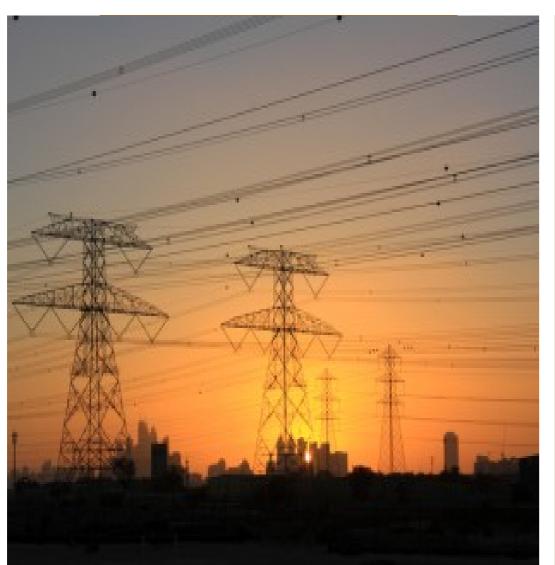


Flexible Architecture



iOmniscient – PRESENCE EVERYWHERE Projects in 70 countries





- Spanish Royal Palaces
- Dubai Mall
- University of San Francisco
- Karbala Mosque
- Sagrada Familia Cathedral
- Abu Dhabi Investment Authority
- Qatar Islamic Bank
- BP Pipeline, Azerbaijan
- Keppel Ports

- Singapore Smart City
- Bermuda Smart Island
- Suntec City, Singapore
- *Royal Thai Police
- * Royal Oman Police
- * Bahrain Prisons





- Kuala Lumpur International

 Airport Phase 1 & 2
- Mexico City Airport
- Antalya Airport, Turkey
- Canberra Airport
- •Indonesia 16 airport

- China Fast Train (1000 kms of track)
- Essen Railways, Germany
- Chengdu Metro
- Nanjing Metro
- Chicago Transit
- Italian Railways







Intel Alliance Partner of the Year - 2021

Next-Generation Tech Now



World's Oldest Al Based Computer Vision Company

21 Years Old in 2022



70+ International Patents







HSE

from

i mniscient

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