### URBAN SOLUTIONS AND SUSTAINABILITY R&D CONGRESS 2023

BUILDING SUSTAINABLE, RESILIENT, AND LIVEABLE CITIES OF TOMORROW

**4TH - 5TH OCTOBER 2023** 



#### FROM RESEARCH TO REAL-LIFE IMPACT -ADVANCED VIDEO ANALYTICS FOR CONSTRUCTION SAFETY AND PROPUETIVITY

Chief Executive Officer Ailytics





## From Research to Real-life Impact

Advanced Video Analytics Solutions for Construction Safety and Productivity

## How can we leverage on existing CCTVs to enhance site monitoring?











#### **Many challenges to overcome**





#### **Decent Results, considering to spin off** as a startup

4 Successful testbeds sites with the intention to eventually mandate this as a requirement



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## **Transition from research to commercialization**

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Joined the NUS Accelerator 3 Months





Business Model Pricing Market Sizing





First Customer





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# THAT FEELING WHEN YOU GET YOUR FIRST GUSTOMER

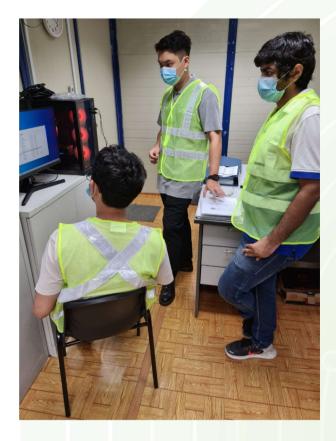
#### Things are about to get exciting.

#### **Market, Mishaps, Malfunction**

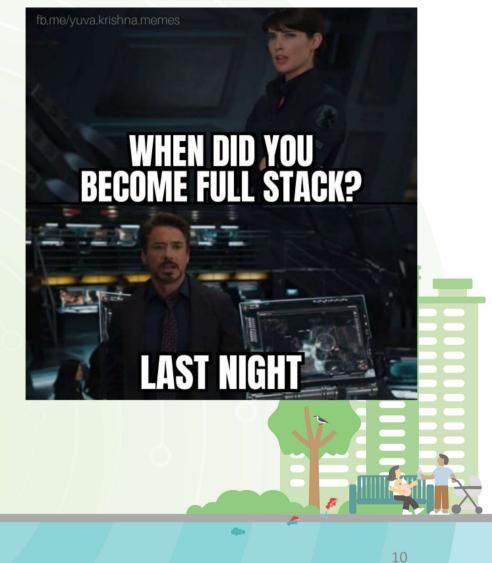








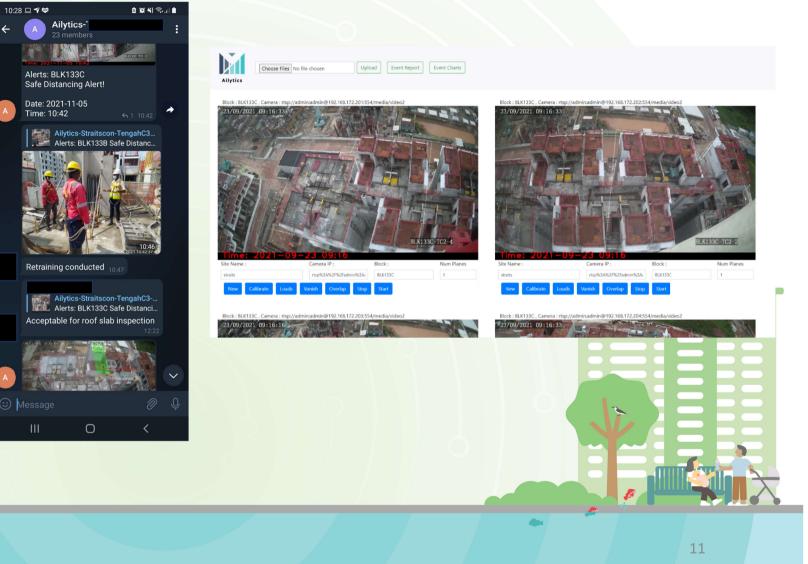




#### **Customer Obsessed , Innovation Driven, Product Focus**

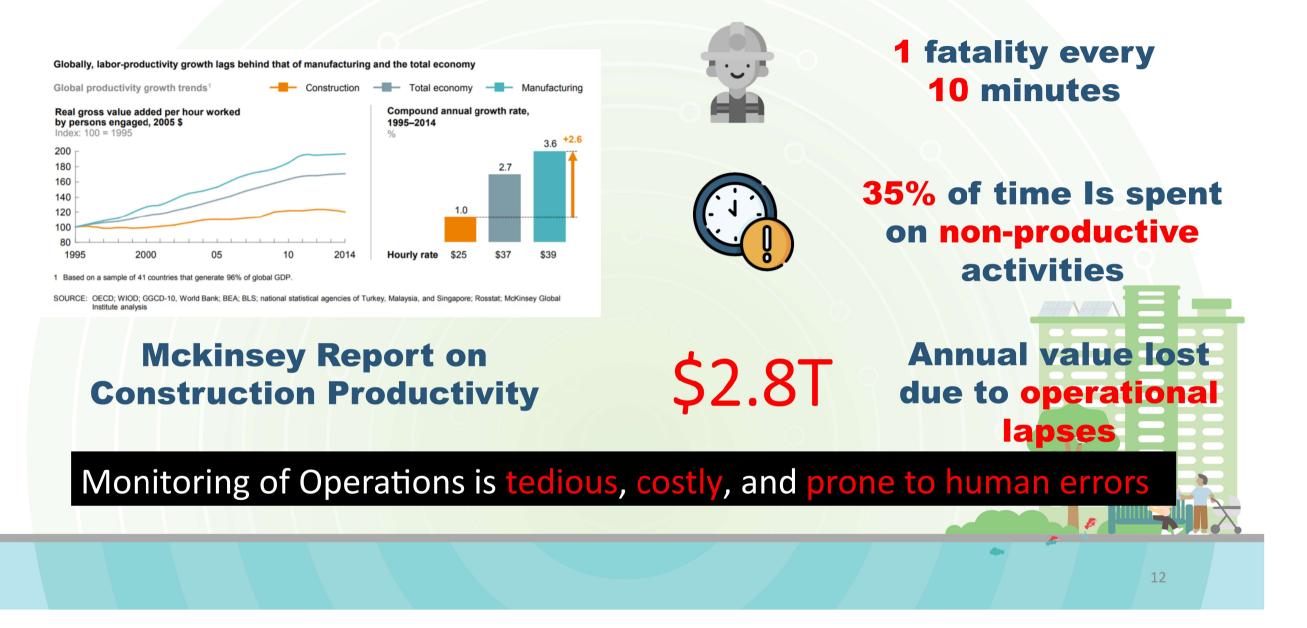






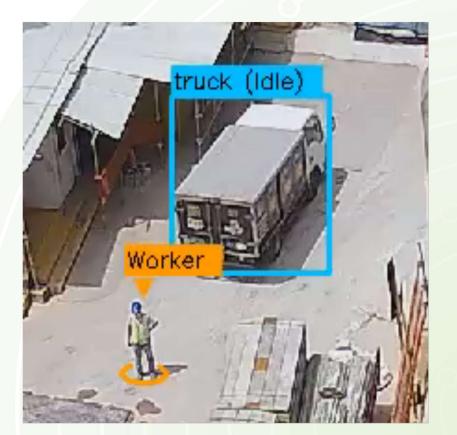
#### **Construction Industry is ripe for disruption**

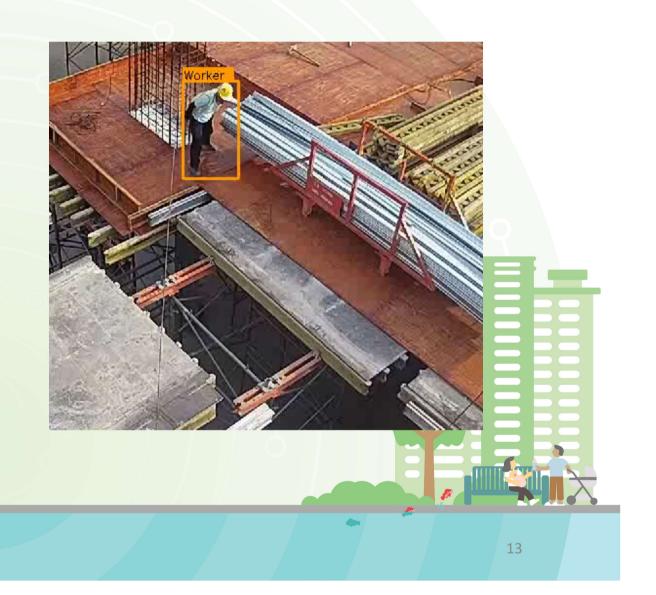
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## What is happening on the ground when no one is looking?

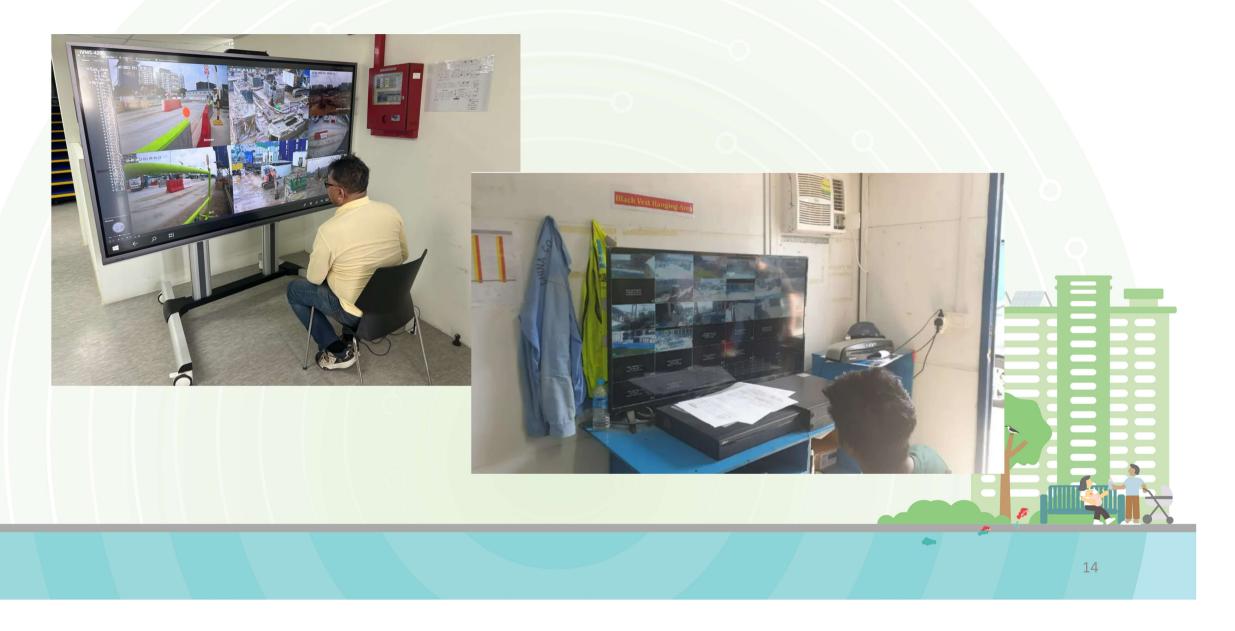






#### Manual Monitoring At Sites Are Still A Common Theme





#### More than 20+ Pre-Built AI modules

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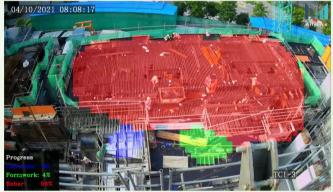
#### **Safety**



#### **Productivi**



Progress

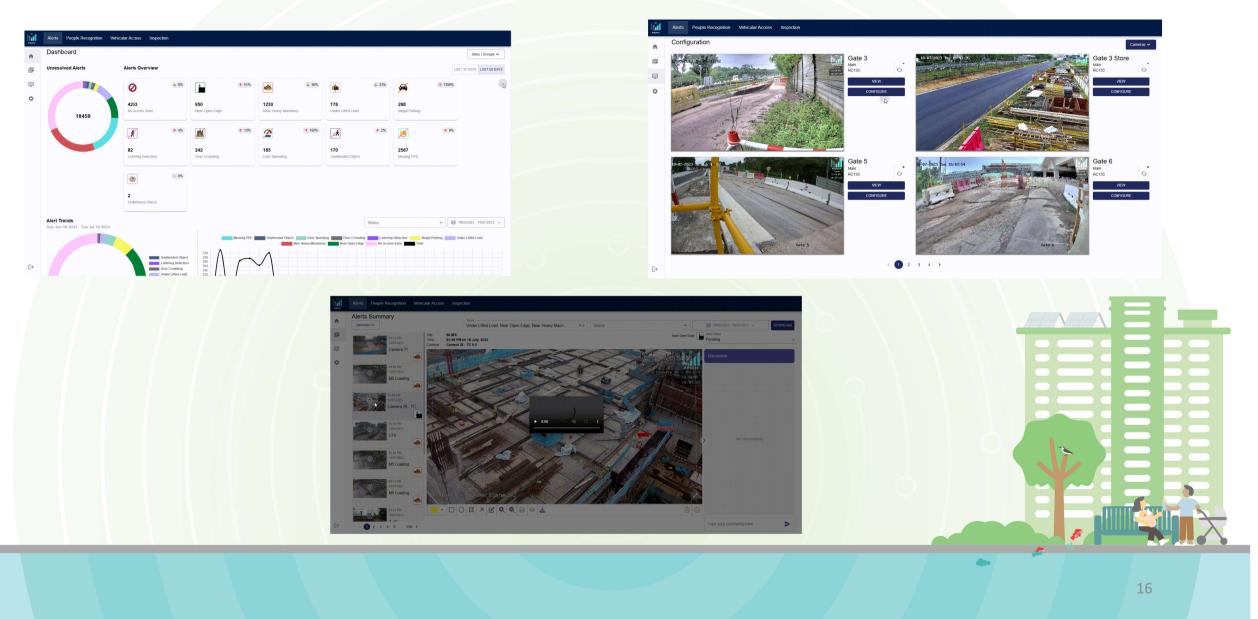




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#### **Analyze and Monitor Operations**



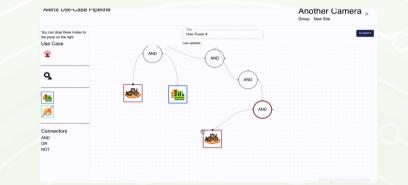


#### **Next Generation Video Analytics**



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**Custom Scenario Pipelines** 



**Real-time, Multi Object** 

**Tracking through** 

2D to 3D projection from any single camera



Long Range, Harsh, and Dynamic Environment with Low

**Specced Cameras** 



Trajectory and Localization mapping

#### **User Benefits And Usage Of System**

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#### Reinforcement





#### **Benefits**

7x increased hazard

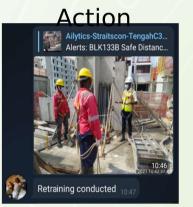
detection **20%** more efficient

Alert



Alerts: BLK133A Worker Under Load!

Date: 2021-11-23 Time: 16:23



**24/7** automated site monitoring and alerts **Outcomes** 

Subcontractor Performance, Claims, Disputes

> **Reduction of manual** monitoring

Worker onboarding and retraining

Early Identification of risks

Positive operational culture change from the ground up

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**ONE DOES NOT SIMPLY** 

LAUNCH A SUCCESSFUL STARTUP

#### Statistics show that only 2% of startups survive after 5 years.



#### Survived the valley of death, time to scale



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Integration

Integration with

industry-leading

customers

Product

Decoraphicalent Localization, Edge Al solution, Productivity **Solutions** 



systems to bring Expansion more value to our To industrial sectors and Asia

## **Thank You**

