

Site Monitoring Trailers

February 6, 2024



# Al Monitoring Service

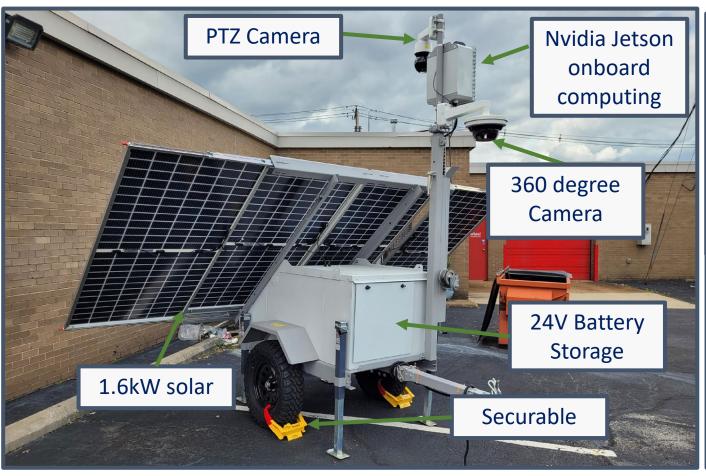
Brian Bub Client Director

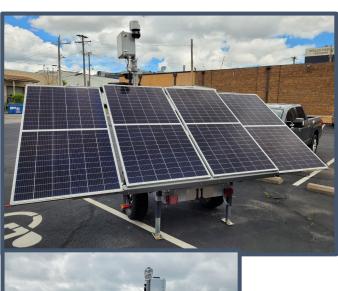
Dylan Gessinger
Director of Strategic Partnerships

Safety

Security

#### **Current Solution**







#### **Intelligent Cameras**



#### **Capabilities:**

- √ 24 hour, 360° operation
- Custom Exclusion / High Security Zones and Schedule by Camera
- √ Scheduled Operation Times for Safety and Security

#### **Detections:**

- √ Active Person
- √ Active Vehicle
- ✓ Approx Vehicle Speed
- √ Vehicle Spotter
- ✓ Vehicle Types: (e.g. Bucket Truck, Lull, Excavator, Pickup Truck, Skid steer, JLG)

- ✓ PPE (Hard Hat, Safety Vest, Eyewear)
- √ Critters
- New detections implemented upon customer request

#### **Distance Measurements:**

Measured from the center of detections

- √ Proximity (any detection within a defined distance of another detection)
- √ Improved Speed Accuracy

#### Site Monitoring

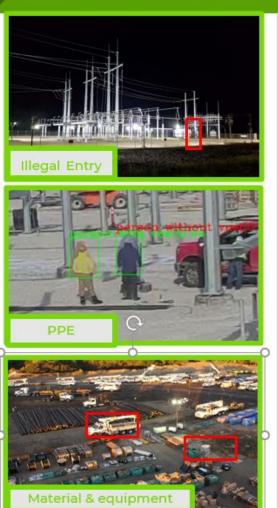
#### **OBSERVE**

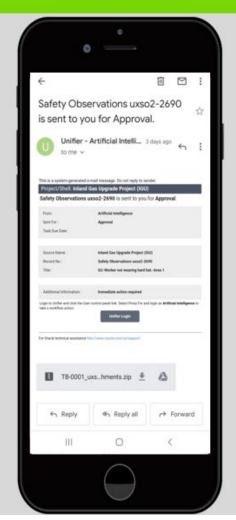
#### **IDENTIFY**

#### TIFY ACTION

#### **DECISION**











#### **PPE Detections**

#### **OBSERVE**







Helmet



Eyewear

#### **Site Monitoring**

#### **OBSERVE**



#### **Real-time Monitoring**

#### **OBSERVE**

Review footage of safety incident on internet portal

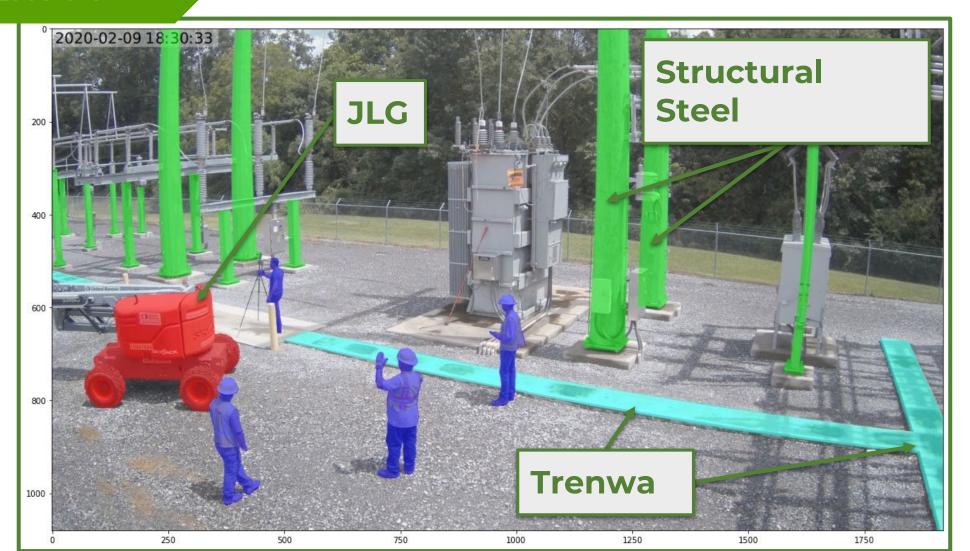
#### Real-time, simultaneous login to all video feeds:

- Site conditions
- Crew check
- Build status
- Safety review
- Build quality



#### **Detection**

#### **IDENTIFY**



#### **Detection**

#### **IDENTIFY**







**Active People and Vehicles** 

Approximate Vehicle Speed

#### **Night Detections**

#### **IDENTIFY**

#### **Moving Vehicles & People at Night**





#### **Combined Detections**

#### **IDENTIFY**

#### **Combined Safety & Security Tracking**



#### **Combined Detections**

#### **IDENTIFY**



## Customer Defined Exclusion Zones

#### **IDENTIFY**

#### **Configured Exclusion Zones**





#### **Alerting: email or Text**

#### **ACTION**

#### Security Onsite Alerts



Strobe



Siren / Voice Message



Notification

#### **Alerting: email or Text**

#### **ACTION**

#### **Site Monitoring Alert**

A vehicle was detected exceeding 15 miles per hour at the Chicago location. Follow this link to review the footage

Additionally, please follow this link to view the Live Video feed from the site

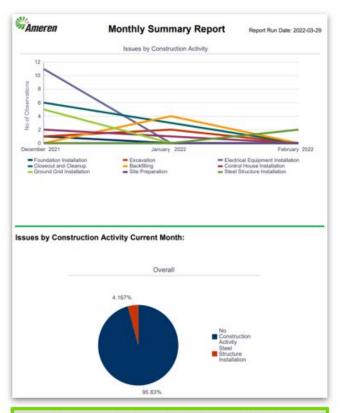
#### **Reporting & Analytics**

#### **DECISION**

#### Safety Incident Leading Indicators



Real-time alerts



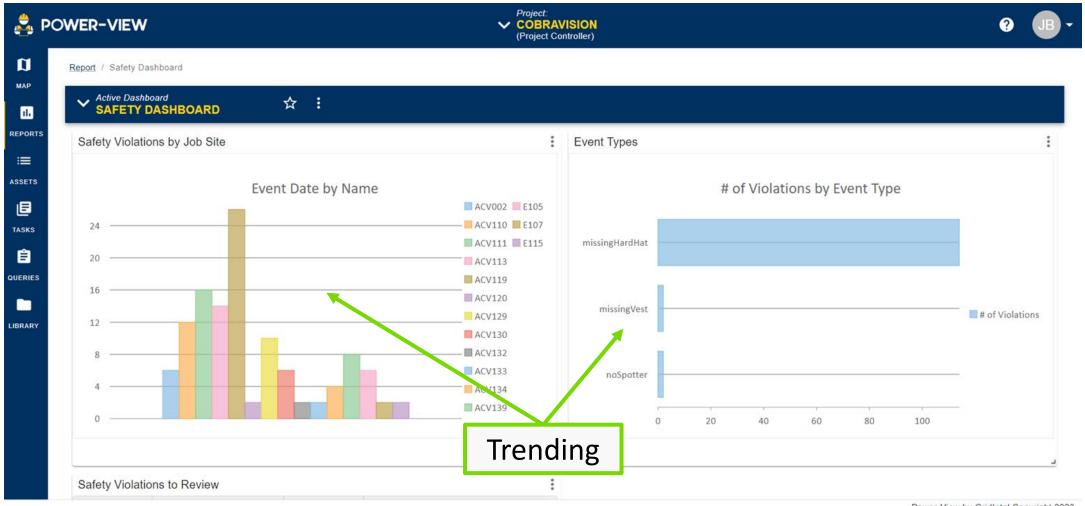
Weekly / Monthly reports



Ongoing Trending and Analytics

#### **Reporting & Analytics**

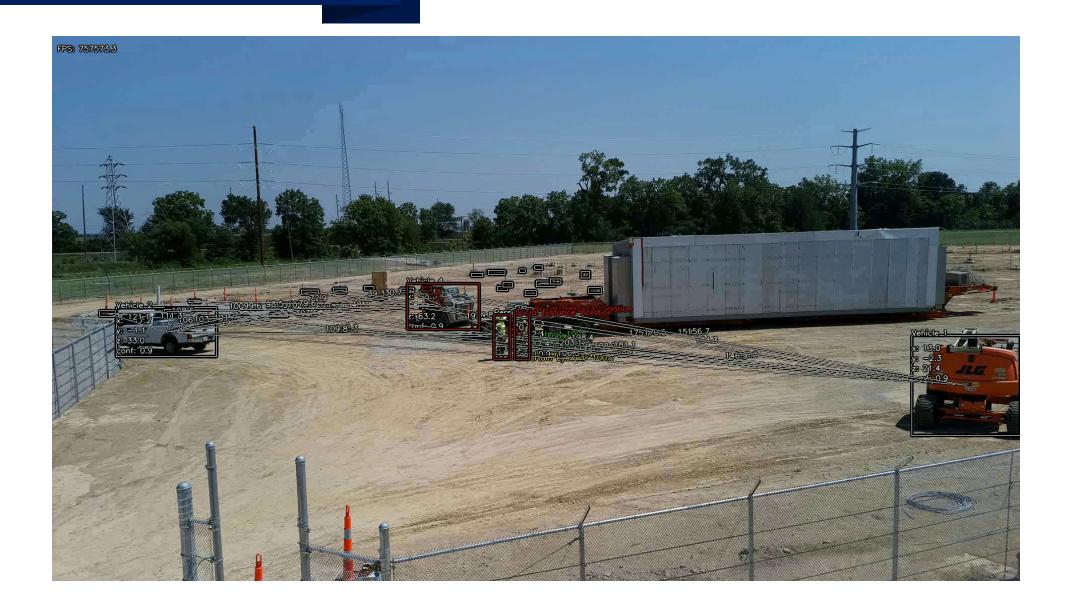
#### **DECISION**



## **Customer Defined Schedules by Camera**



#### **Stereo Camera Data**



# Thank you for attending

If you have any questions, please send emails to bbub@orbitalengr.com or dgessinger@orbitalengr.com