

Innovative Technology for Safety

ARTIFICIAL INTELLIGENCE FOR HUMAN DETECTION



Next slide IoTUSA Thermal AI-M1-A Video



Helping Your City And Shops Get Back To Work Safely

Non-Contact Thermal Monitoring with Fully Integrated Multi-Site Reporting

Cities and Businesses Working Together for a **Safer Community**

Protect City Workers







City Map - Safe Shop Locations



All data. Protected. Secure.









Protect Your Patrons

Local Business



City Engineer



Office

By-Law

Officer







- SAFE SHOP Locations
- · Live Reporting System
- · Identify Community Hot Spots

DataHub Monitor. Collect. Report.

Real-Time Temperature Detection









Grocery Stores







Pharmacies Gas Stations

Keep frontline staff and citizens safe

- · Protect essential services workers
- Early detection of high temperature
- · Real-time alerts and reporting
- Assist health officials to respond faster
- loticiti Connect™ loT platform included
- · Integrates with any legacy system
- Promote your city as a safe community



- · Simple to install
- Same-day results
- Easy to use
- Hands-free
- · Non-contact thermal monitoring



- · Mobile App timestamps and logs temperature
- Record your personal temperature info securely

Retain customer loyalty - be a SAFE SHOP

- · Identify patrons with a high temperature
- Receive real-time alerts
- Available multi-site reporting in real-time
- · Enterprise-Grade for Franchises and National Brands
- Safeguard your reputation
- Promote your business as a SAFE SHOP
- Leverage loticiti's marketing package

ARTIFICIAL INTELLIGENCE FOR HUMAN TEMPERATURE DETECTION

- High-efficiency screening of elevated temperatures
- · Safe, non-contact thermal imaging
- · Real-time measurement and alerts
- No privacy issues identifies temperature and not identity



Non Contact





High Efficiency



Single File or Large Crowds



Accurate



Real-Time Alerts

INDUSTRIAL GRADE THERMAL REPORTING SYSTEM

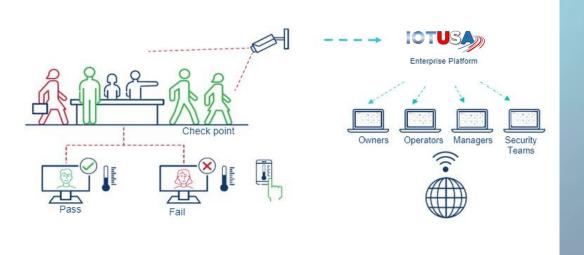
Fully Integrated Multi-Site Reporting

lot platform for centralized reporting from anywhere to anyone.

Private Secure Remote Access for

- · Owners & operators
- Managers
- · Security teams
- Healthcare systems
- Site managers
- Residents

Our private network. Your private data. Protected. Secure.

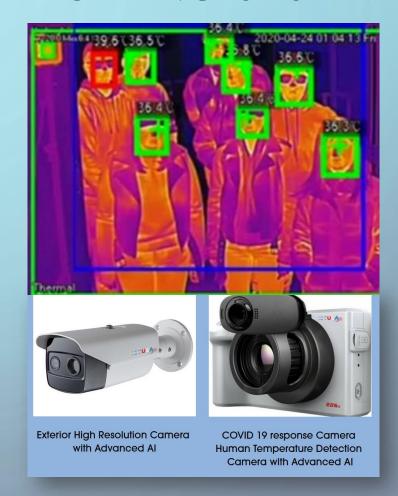


INDUSTRIAL GRADE THERMAL REPORTING SYSTEM

- Screening early detection
- Real-time temperature measurement
- No privacy issues identifies temperature and not identity
- Early alert of potential infection
- Early isolation of potential cases
- · Rapid and easy deployment

Private Secure Remote Access for:

- Owners
- Operators
- Managers
- Security teams
- Healthcare systems
- Site managers
- Residents



THERMAL REPORTING DASHBOARD SNAPSHOTS



Measure a line of people

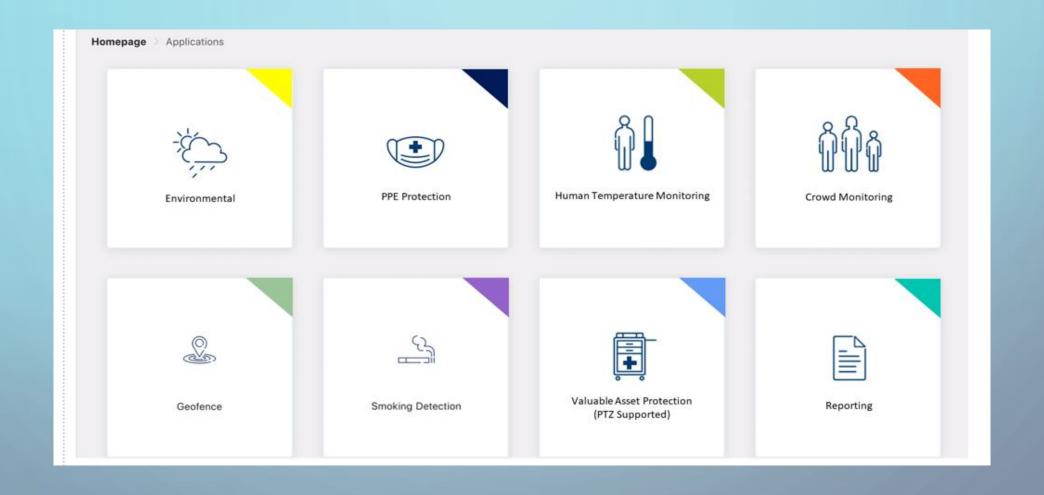


Measure a crowd



Dashboard provides Real-time alerts

THERMAL AI DASHBOARD



SITECENTER HQ



CONSTRUCTION JOBSITE CHALLENGES

Safety Requirements

- Workforce
- · Safety equipment site location
- · Man-down awareness
- · Workforce arrival & departure

No Visibility

- · Equipment & tool location
- · Third-party supply chain
- Head office
- Jobsite
- Global access

No Real-time, Local Environmental Data

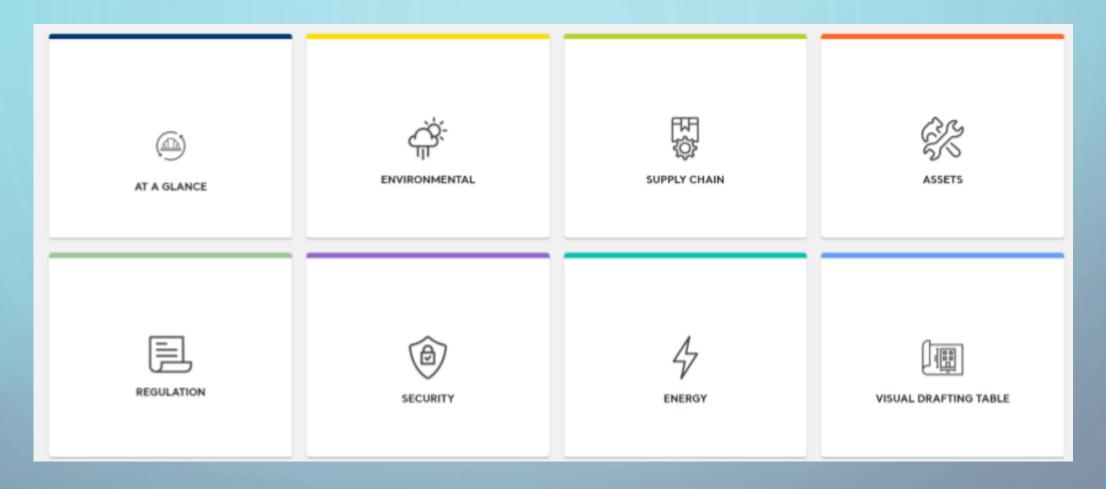
- Wind levels
- · Air quality (noxious gases)
- Noise levels
- · Water quality & testing

Reporting Information

- · Third-party supply chain deliveries
- · Weather & environment
- · Workforce incidents
- Unauthorized access



SITECENTER HQ DASHBOARD



ARTIFICIAL INTELLIGENCE



Dumpster / Bin Monitoring

- Fill level (0-100%)
- Dumpster color / #
- Abnormal object detection
- Logging & statistics reporting (timestamp & dumping events)







Valuable Asset Protection

- Geofencing valuable assets
- Monitor & alert when vehicles or people are near assets



Monitoring & Reporting

Type: Dump truck

Vendor: Charter Way

· Model: Mercedes truck

Model: BICW4151

Load: Soil

· Action: Loading

Driver #: 1

Passengers #:1

· Direction: In

Time: 11:38 AM

Total # of Loads: 5

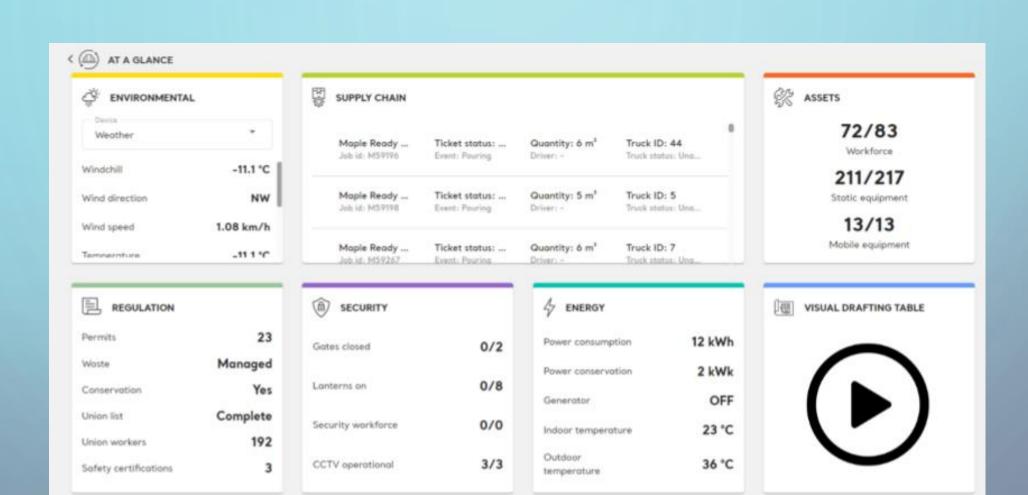
Average Load/Hr: 0.7



Worker Monitoring

- Workforce counting
- # of workers on jobsite
- # of workers in each zone
- Workforce danger zone alerts
- Event history logging
- Safety wear detection (i.e. hard hat, safety vest & boots)

DASHBOARD DRILL DOWN



WEATHER MONITORING

Weather Reporting:

Provides real-time localized weather information 24/7.

Air Quality Sensor System:

Connects on site weather station monitors air quality in real-time with 24/7 alerts reporting pollutant concentrations that are excessive.

Wind Monitoring:

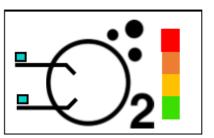
Provides current wind information and wind progression alerts at various heights for site operations applicable to crane operations and open floor conditions.

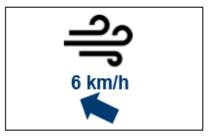
Water Testing:

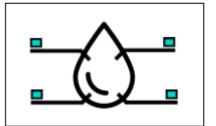
Real-time monitoring and reporting as required by governing agencies with respect to standards regarding E. Coli, manganese, Zinc, or other contaminates.

Real-time secure remote access for authorized personnel

- Operational Loss Prevention
- Critical Alert Awareness
- Safe Work Environment 24/7/365





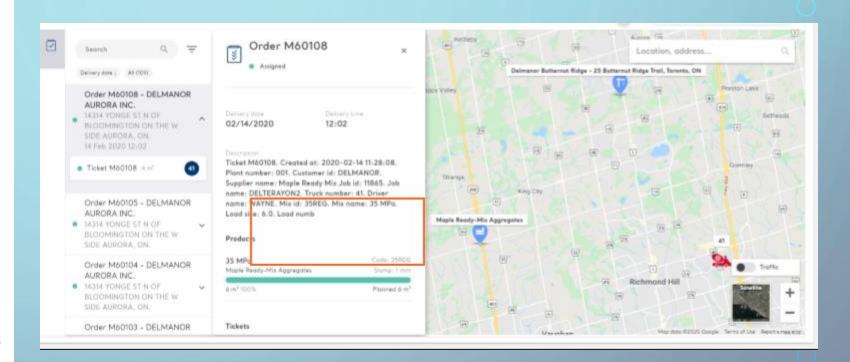


REAL-TIME SUPPLY CHAIN INTEGRATION

Visibility into Third-Party Subcontractors Systems

(Example, ready-mix supplier)

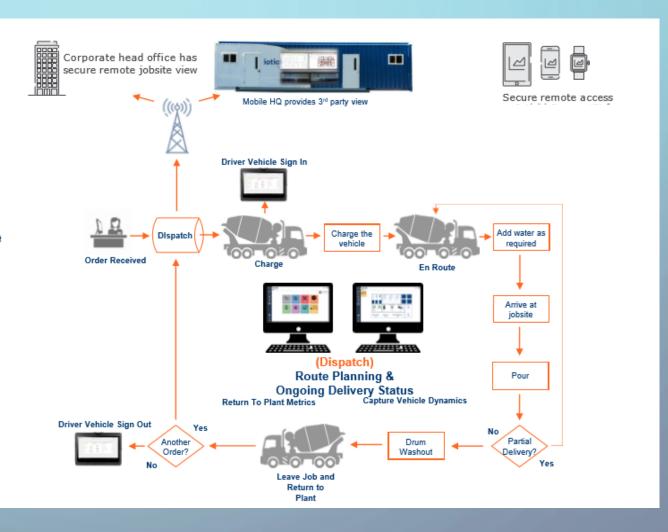
- Location and ETA of the ready-mix delivery
- Amount of concrete on-board
- Amount of water added to the load/discharge time
- · Amount of concrete poured
- Quality of mix
- Arrival & departure time-stamped
- · Driver ID, location & man-down alerts
- Delivery confirmation
- Route & schedule optimization



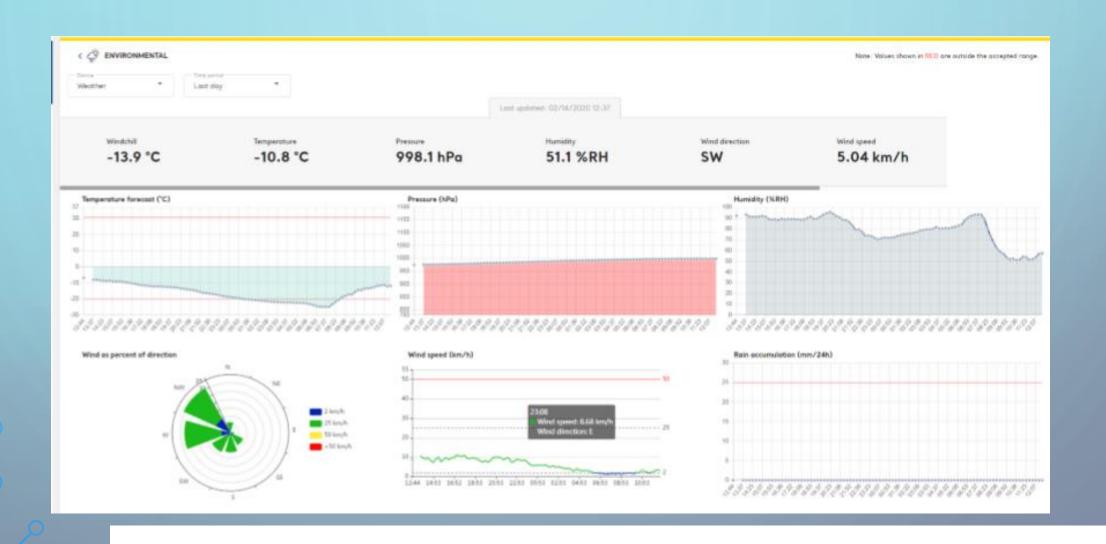
SUPPLY CHAIN WORKFLOW

Visibility into Third Party Subcontractors Systems Example, third party ready-mix company

- Location and ETA of the ready mix delivery
- · Amount of concrete on-board
- · Amount of water added to the load at discharge time
- · Amount of concrete poured
- Quality of mix
- · Arrival & Departure time stamped
- Driver ID, Location & Man Down Alerts
- Delivery confirmation
- Route & schedule optimization



WEATHER & ENVIRONMENTAL REPORTING



BLUEPRINT EDITING & REPORTING

- Eliminate delivery cost
- Reduce response times
- · Increase project planning
- Increases productivity
- · Reduce down-time
- Reduce risk of building mistakes
- Update multiple parties instantly
- · Increase transparency
- One common data environment
- Record historical changes



JOBSITE LAYOUT - FLOOR BY FLOOR

Automatic Precision Locating:

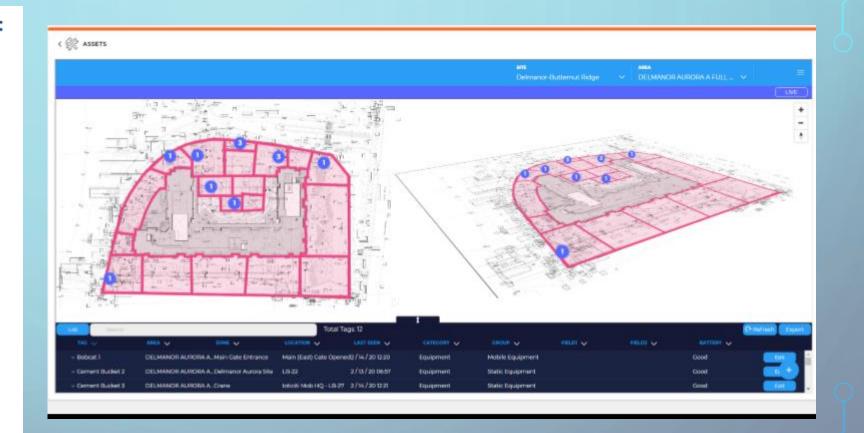
- Assets
- Workforce
- Equipment
- Safety stations

In the event of an emergency:

- · Locate your workforce
- · Reduce response times
- Reduce evacuation times

Full Visibility – 360° Performance:

- Improves jobsite safety
- · Increases productivity
- Reduce lag times
- Complete jobsite visibility



EQUIPMENT & TOOL MONITORING

Authorized Use Protocol

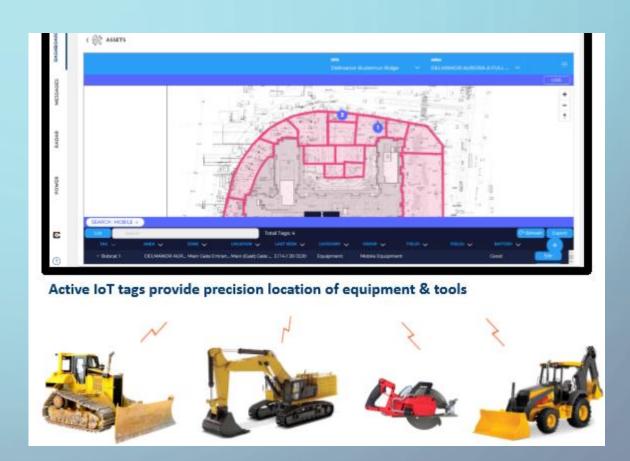
- Unauthorized detection/alerts
- On board operator recognition allows only authorized use of equipment

Theft Prevention/Equipment Round Up

- All tools that require monitoring will have IoT Tags
- Alerts will be created for equipment that leaves the job site

Equipment Round Up

- Site supervisor initiated command to check if all equipment is secure at the end of the day
- During the various phases of construction all equipment will be monitored for mission critical data and alerts
- · Precision location monitoring
- On/off monitoring and alerts



WORKFORCE MONITORING & PRECISION LOCATION

Tag for workers

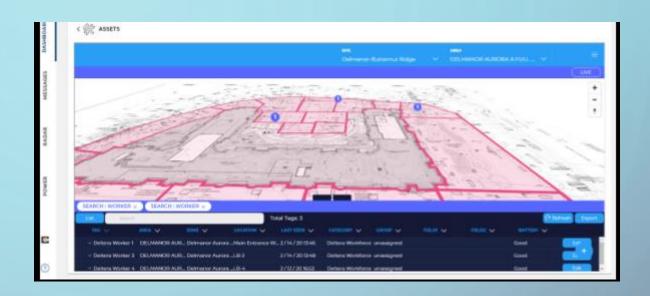
- · Live count shows how many workers are on site
- Arrival & departure of workers
- · How long a worker has been on site
- · Location of workers on site
- · Man-down alert
- Centralized worker data

Real-time secure remote access

to loticiti Connect Mobile HQ services for authorized personnel from anywhere in the world.

- · Operational loss prevention
- · Critical alert awareness
- Safe work environment 24/7/365

Safe, Secure, Efficient





SITECENTER HQ MOBILE DIAGNOSTICS

Real-Time Rugged Jobsite Viewer Wall mounted and portable display to centralize all data on the jobsite.

Live count:

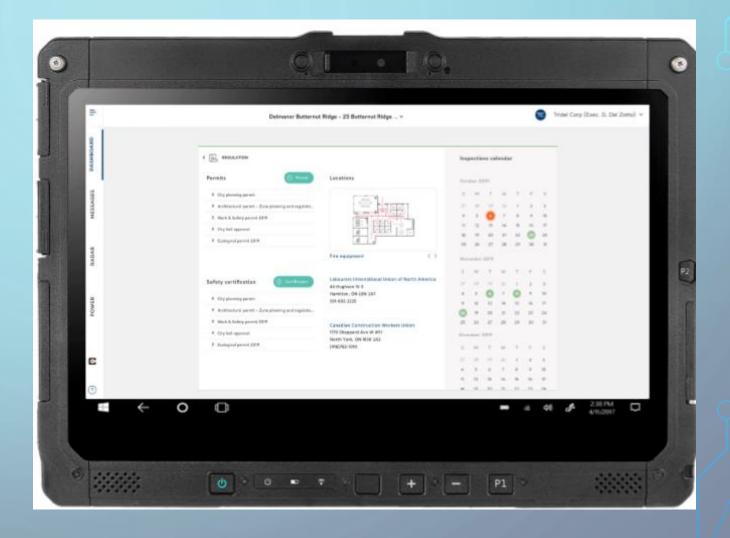
- Workers
- Equipment
- Material
- · Third party subcontractors
- · Incident reports
- Delays

Portable scanning capabilities:

- Documents
- · Union cards

Environmental:

- Weather monitoring
- · Wind reporting
- Air quality control
- · Water testing/reporting



APPENDIX 1: CONSTRUCTION INDUSTRY FACTS

- Workforce Safety "Mobile HQ" About 64% of all on the job fatalities in construction is due to the "Fatal Four" hazards: falls, electrocution, being struck by an object, and being crushed. [Bureau of Labor Statistics]
- 2. 37% of firms are experimenting with drones up 10% from 2016. [JBK]
- 57% of companies are considering job-site employee tracking. [JBK]
- 4. 11% of general contractors are using wearable technology. [JBK]
- 39% of companies cite "lack of IT staff" as the most limiting factor in adopting new technology. [JBK]
- 90% of all global infrastructure projects are either over-budget or delayed. [FMI]
- 15% of construction firms reported having a staff of over 1,000 individuals. [JBK]
- The average hourly wage of all construction employees is \$29.95 USD. [Bureau of Labor Statistics]

APPENDIX 2: APPLICATIONS, WORKFLOW & VERTICALS

