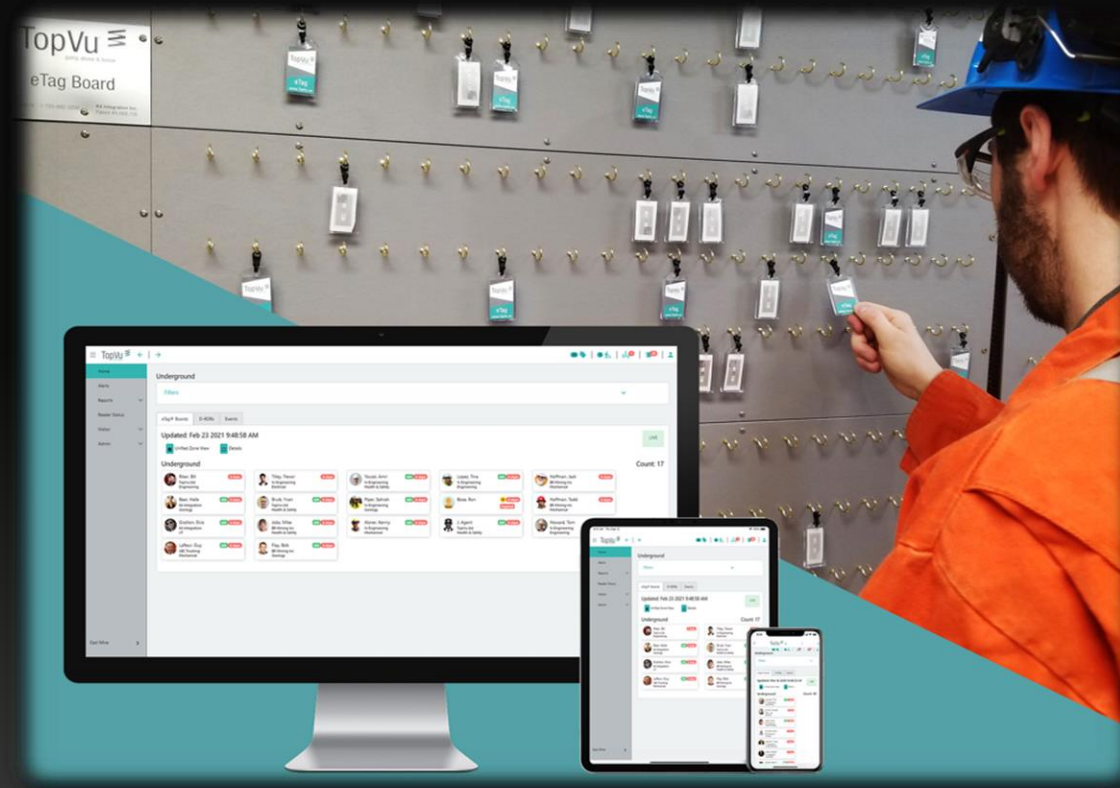


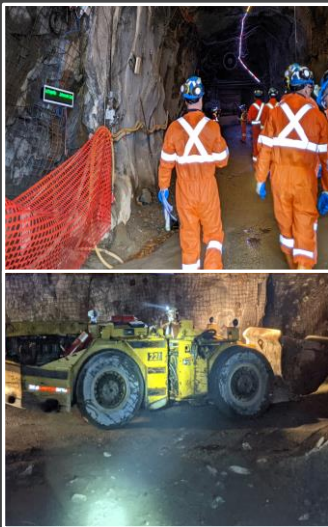
# DIGITAL TRANSFORMATION of the MINE TAGBOARD



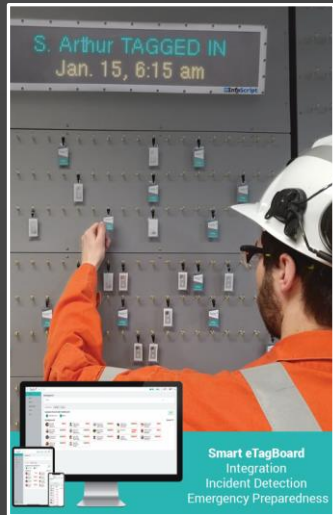
Access  
Control



Personnel  
Tracking



Smart  
eTagBoard



OTS  
OreTracking



Access  
Control

Personnel  
Tracking

Smart  
eTagBoard

OTS  
OreTracking

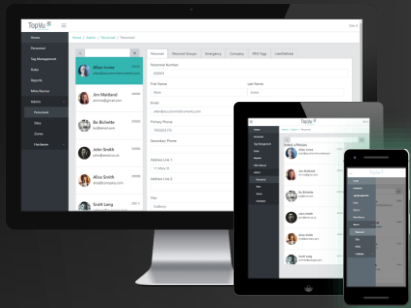




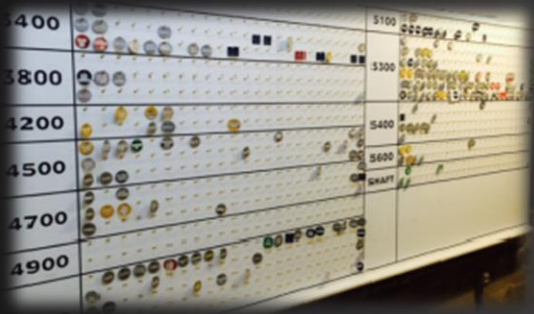
# DIGITAL TRANSFORMATION of the MINE TAGBOARD

*“Digital transformation is the adoption of digital technology by an organization to digitize non-digital products, services or operations. The goal for its implementation is to increase value through innovation, invention, customer experience or efficiency.” [Wikipedia](#)*

# DIGITAL TRANSFORMATION of the MINE TAGBOARD



## Traditional TagBoard



Regulatory Compliance &  
Emergency Preparedness

### Traditional TagBoard



Regulatory Compliance &  
Emergency Preparedness

### Digital eTagBoard



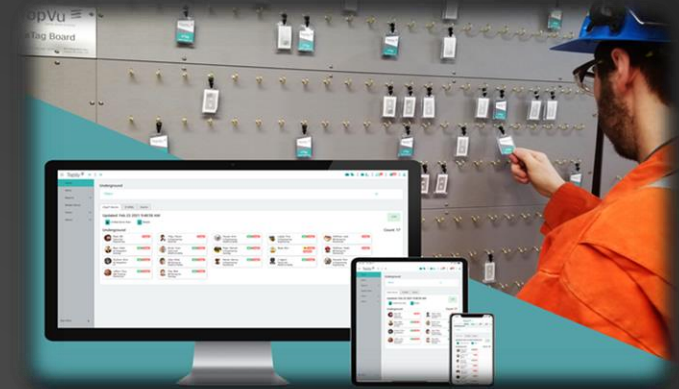
Integration & Automation

## Traditional TagBoard



Regulatory Compliance & Emergency Preparedness

## Digital eTagBoard



Integration & Automation



New level of  
Regulatory Compliance & Emergency Preparedness





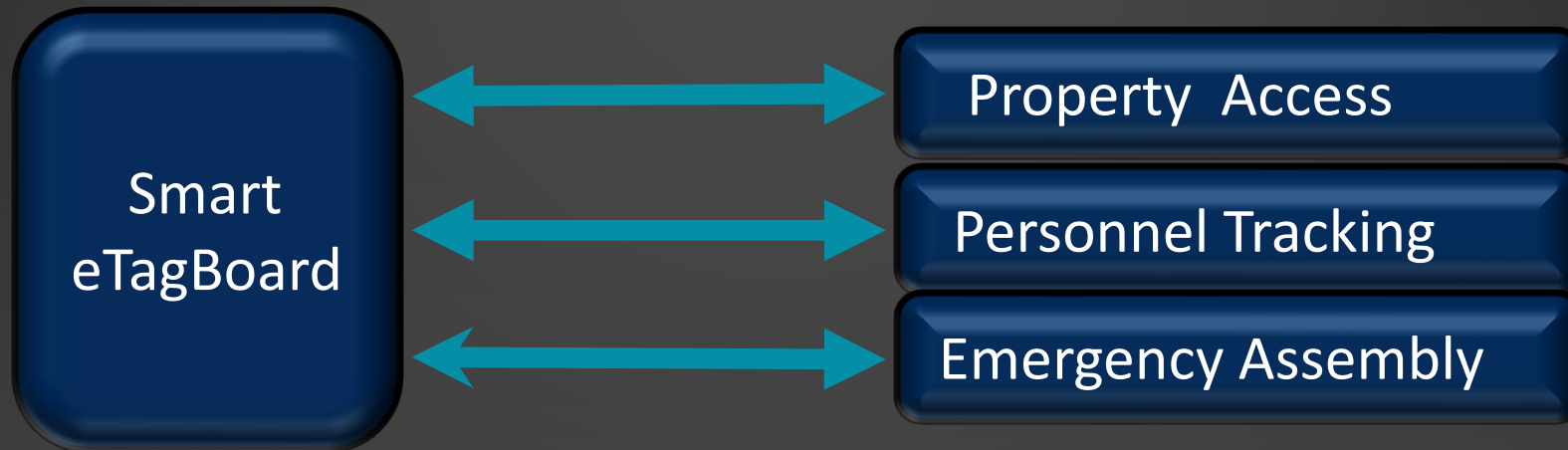
# Goldex

Val-d'Or, northwestern Quebec, Canada

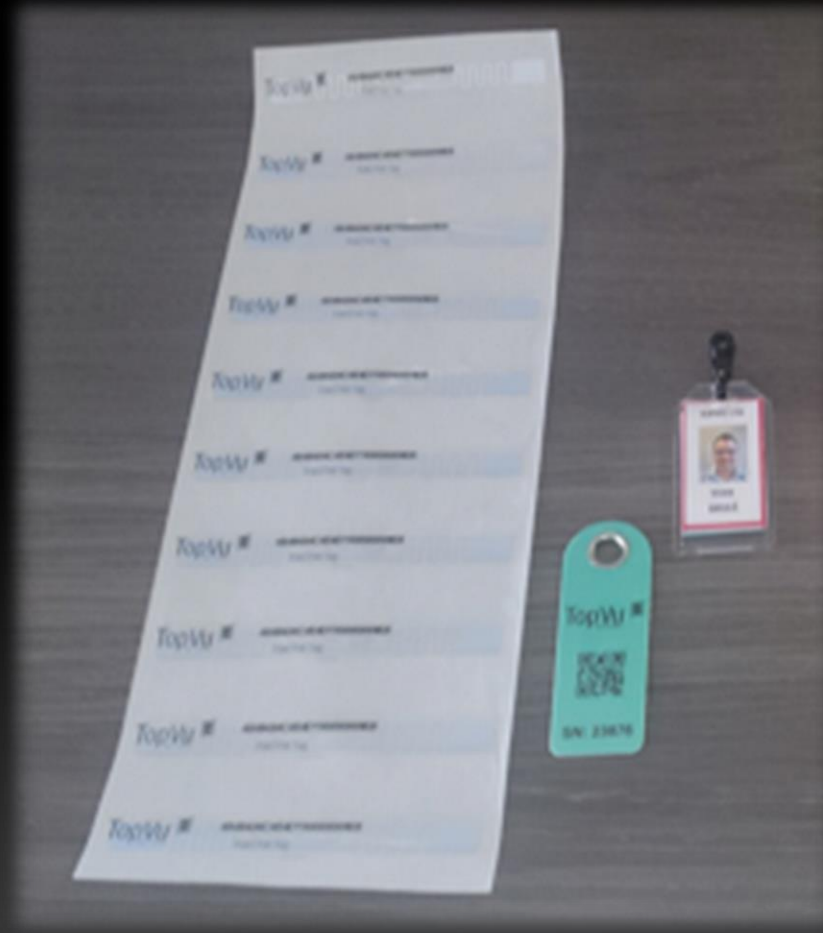


# Craig Mine

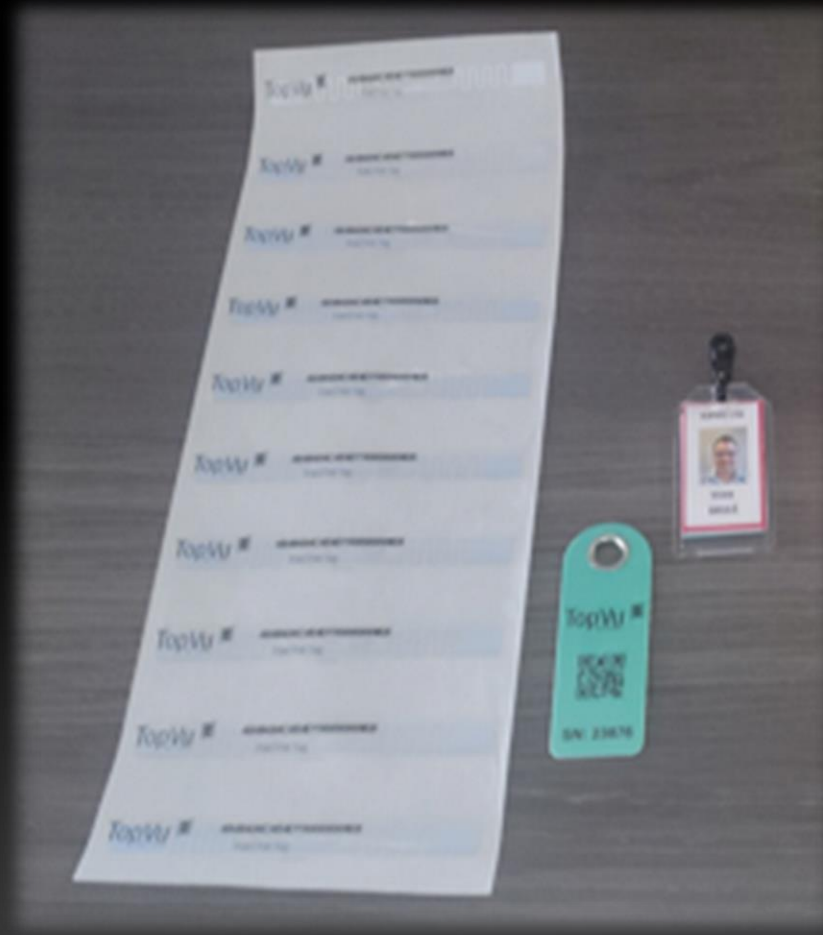
Onaping, Ontario, Canada



## Workers Permanent Tags



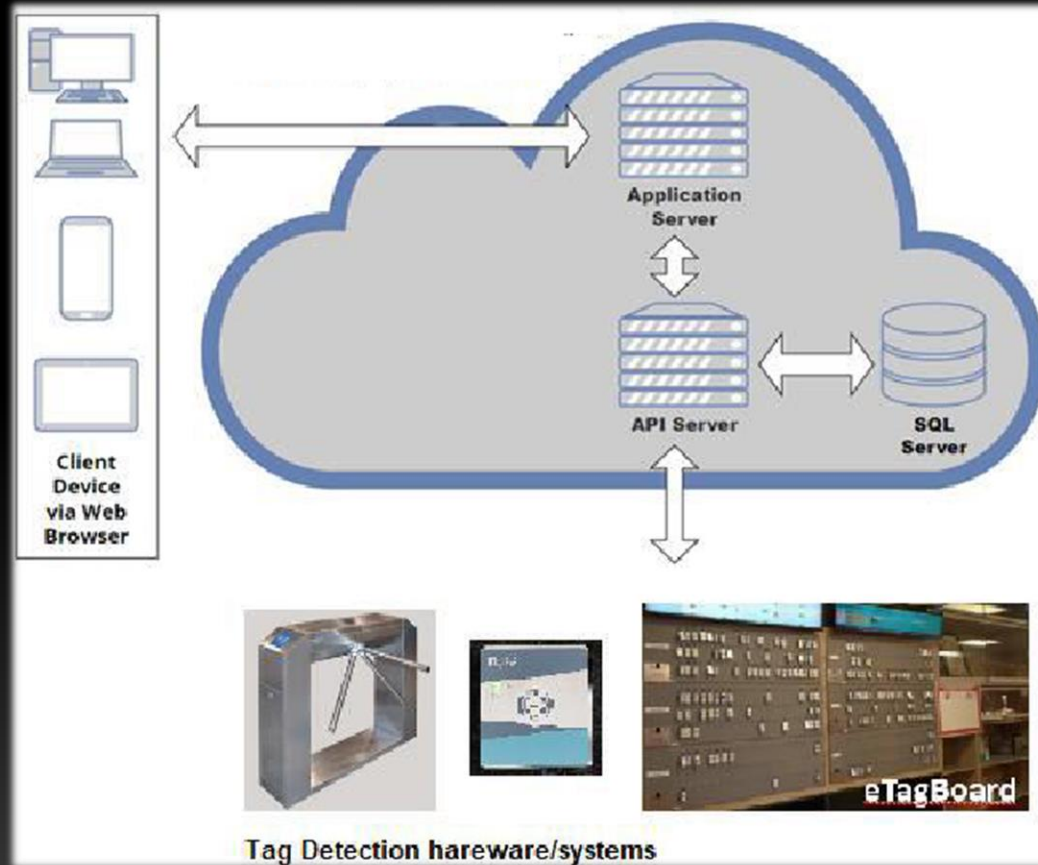
## Workers Permanent Tags



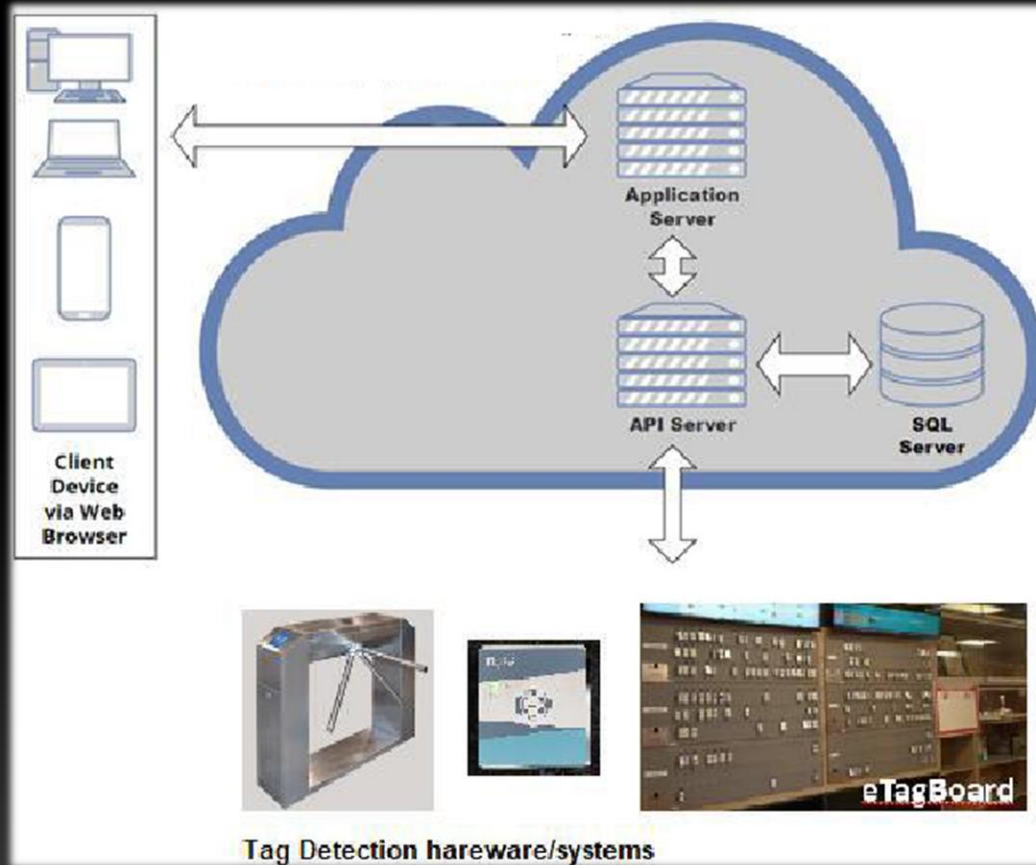
## Visitors Temporary Tags



## TopVu Q7 Software Client Server or Cloud

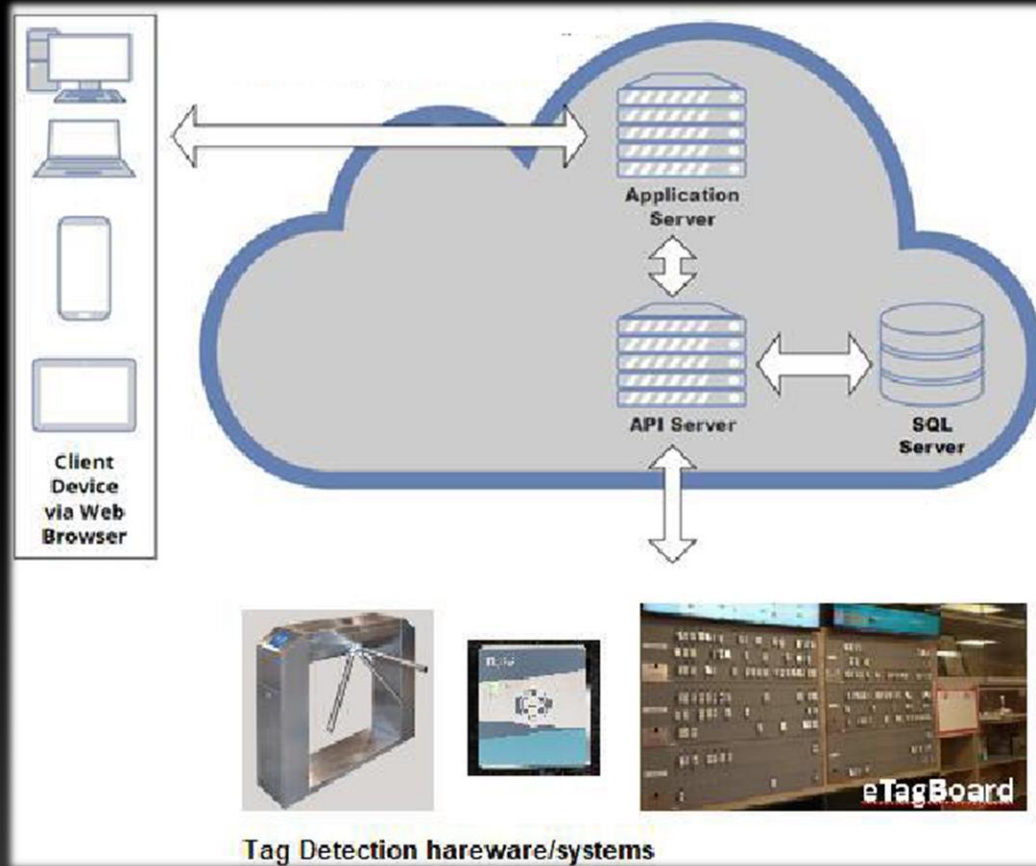


## TopVu Q7 Software Client Server or Cloud



- Web enabled
- REST API integration abilities
- Configuration of TopVu devices

## TopVu Q7 Software Client Server or Cloud

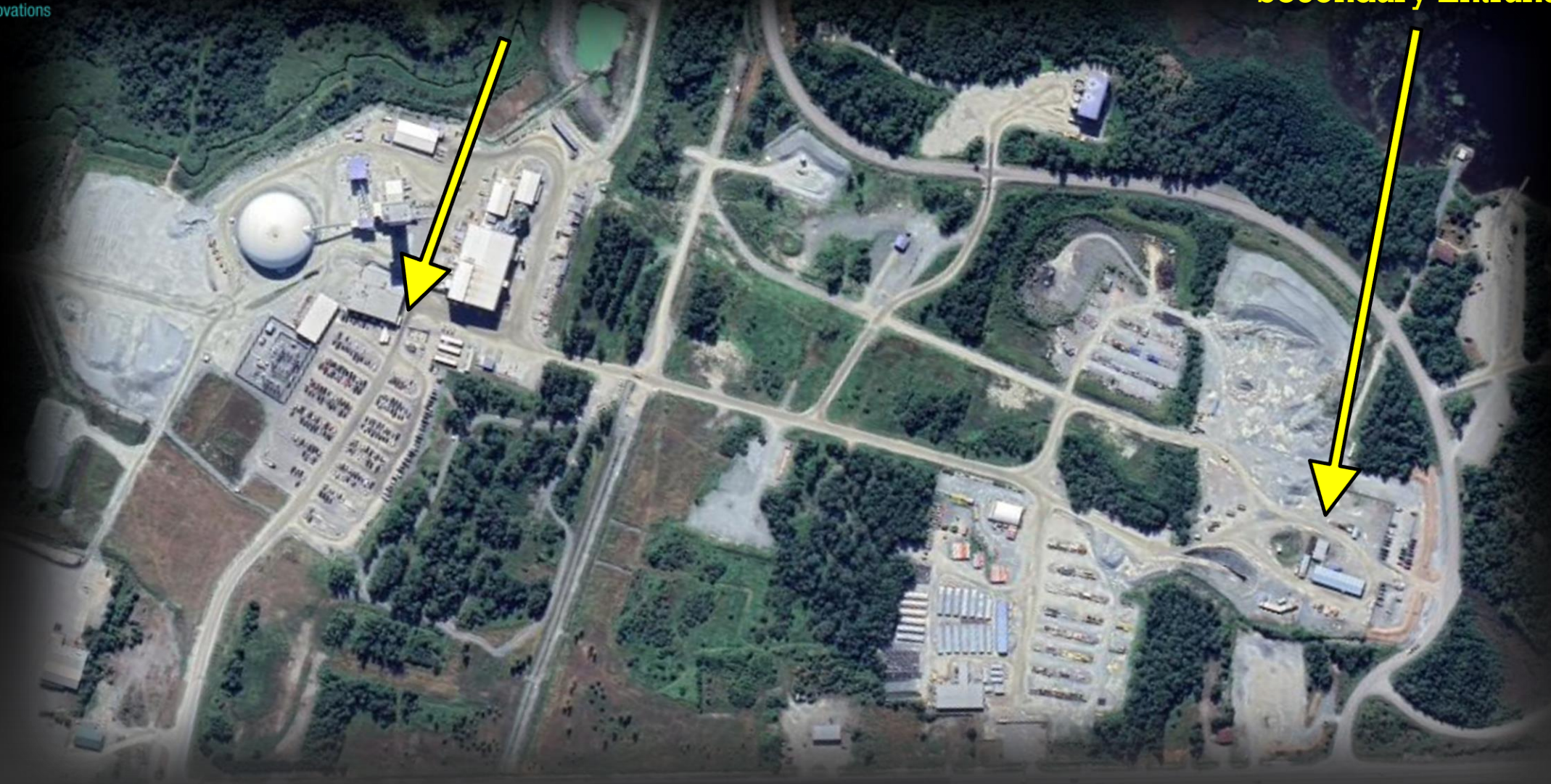


- Web enabled
- REST API integration abilities
- Configuration of TopVu devices

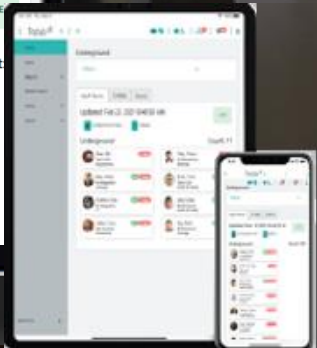
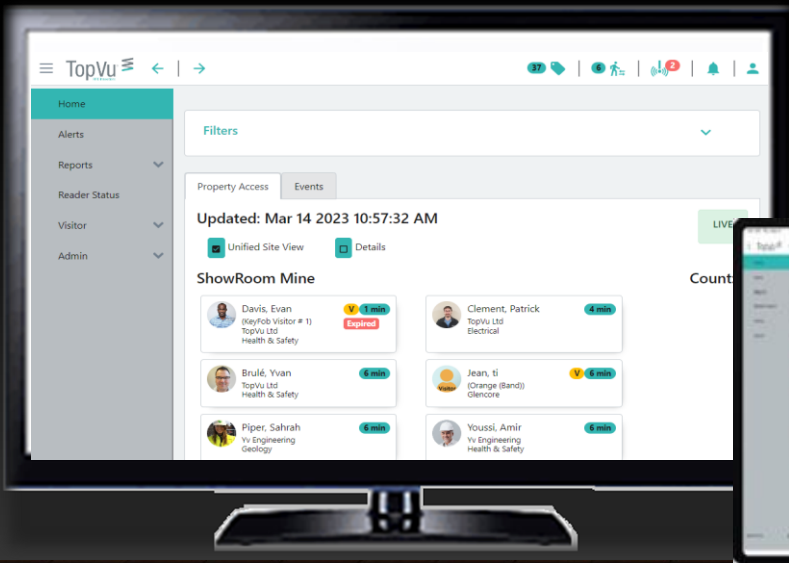
- Live Views
- Historical Records
- Watchdog Rules & Alerts

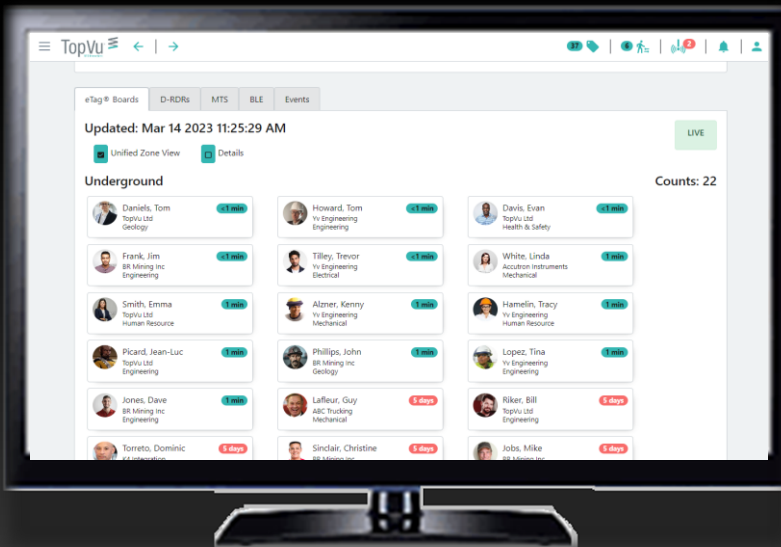
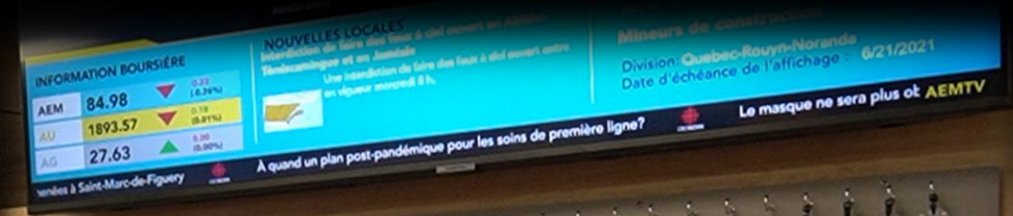
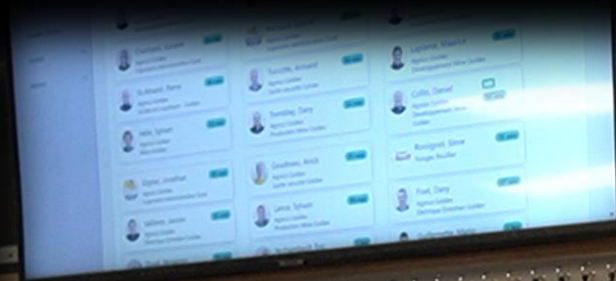
Main Entrance

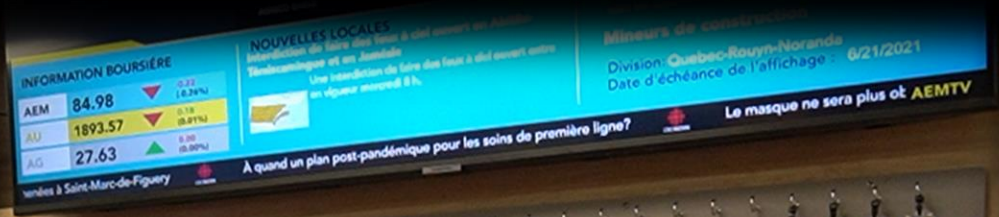
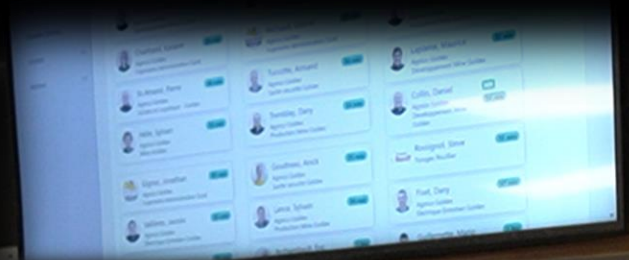
Secondary Entrance











Emergency Declared At  
Apr 6, 2023, 1:25 PM

Live Apr 13, 2023, 1:27 PM

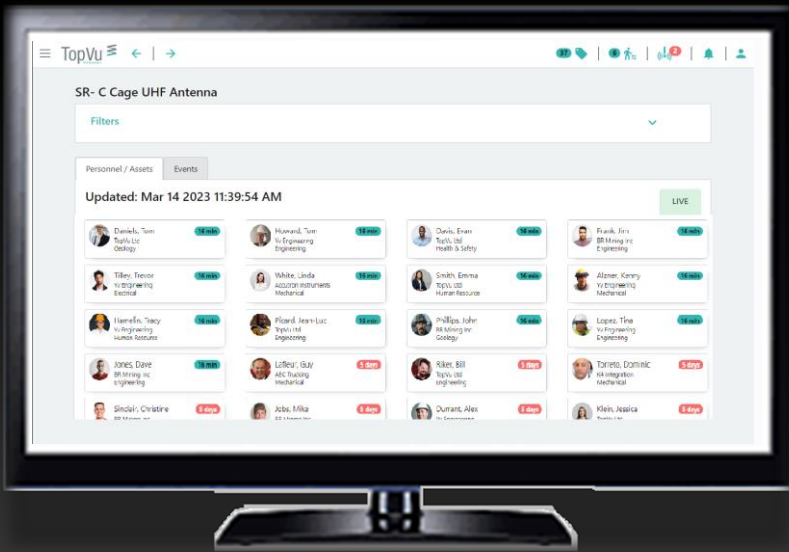
TAGGED IN NON-MUSTERED MUSTERED

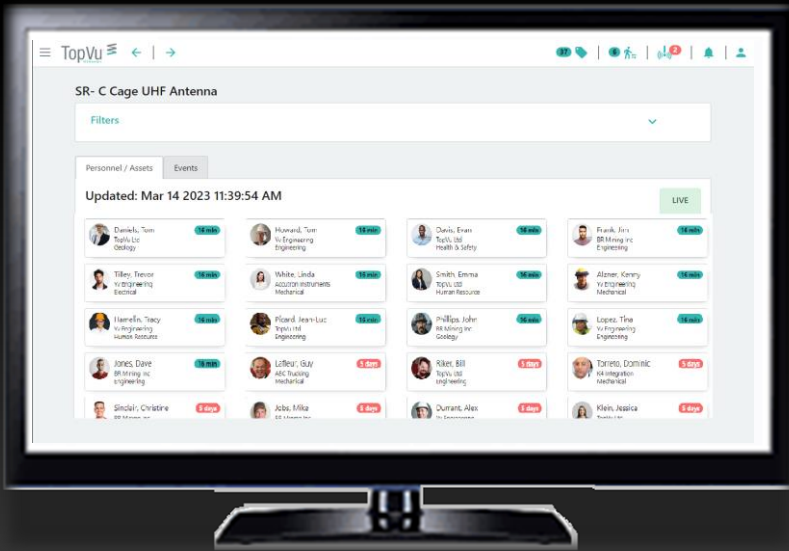
Tagged In

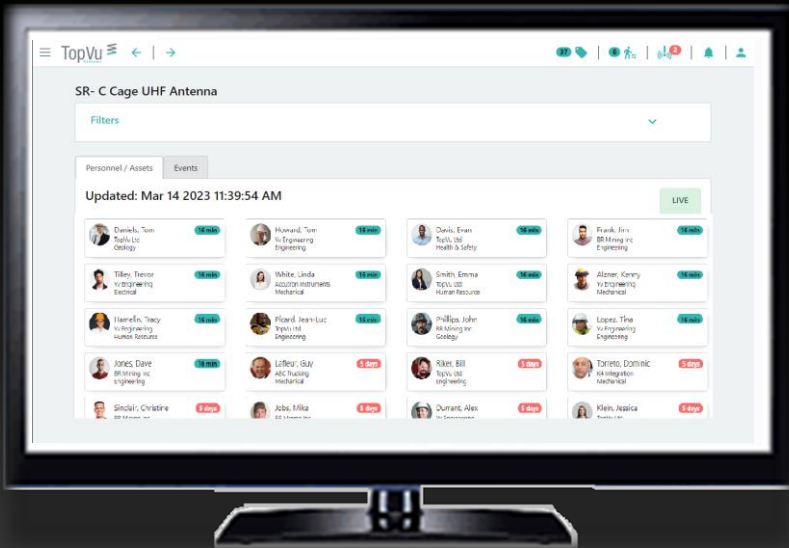
Tagged In: 13 April 2023 1:27:44 PM Declared at: 6 April 2023 1:25:00 PM Total: 38

Name	#	Mine Rescue / First Responder	Company	Department	Job	Supervisor	eTag <sup>®</sup> Boards	Last Known Location	Time
Piper, Sahrah			Yv Engineering	Geology	Geologist	Howard Tom	Mini etag (1)	Mini etag	13 April 2023 12:09:35 PM
Youssi, Amir		MR	Yv Engineering	Health & Safety	Safety Manager	Howard Tom	Surface Tag-Out (7)	SR- C Cage UHF Antenna	12 April 2023 10:14:50 AM
Hamelin, Tracy			Yv Engineering	Human Resource	Human Resource	Howard Tom	Surface Tag-Out (7)	Surface Tag-Out	12 April 2023 10:14:10 AM
J, Agent			TopVu Ltd	Health & Safety	Safety Manager	Picard Jean-Luc	Mini etag (1)	Mini etag	6 April 2023 3:28:50 PM
Hoffman, Jack		MR	BR Mining Inc	Mechanical	Millwright	Jobs Mike	Surface Tag-Out (7)	Surface Tag-Out	6 April 2023 2:13:16 PM
Clement, Patrick	705699		TopVu Ltd	Electrical	Team Leader	Howard Tom	4100 Level (5)	4100 Level	6 April 2023 9:30:44 AM
Hall, Steve	877566		K4 Integration	Engineering	Electrical Engineer	Brulé Yvan	2200 Level (3)	2200 Level	6 April 2023 9:30:44 AM
Ray, Rachel			BR Mining Inc	I/T	Network manager	Jobs Mike	Surface Tag-Out (8)	Surface Tag-Out	6 April 2023 9:30:44 AM
White, Clark	6547		TopVu Ltd	I/T	Network manager		Surface Tag-Out (8)	Surface Tag-Out	6 April 2023 9:30:44 AM





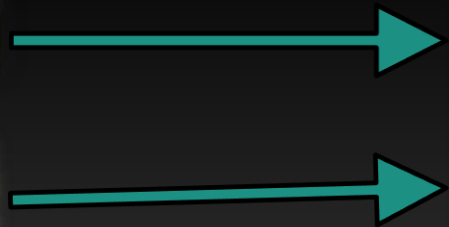




**DID YOU TAG IN?**  
SOLVING TAGBOARD INCIDENTS



# DID YOU TAG IN? SOLVING TAGBOARD INCIDENTS



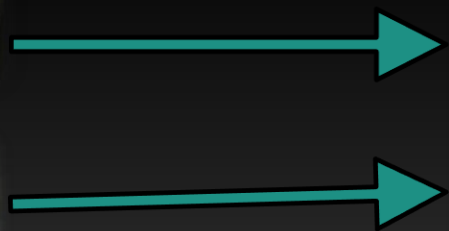
is worker  
Tagged-IN ?



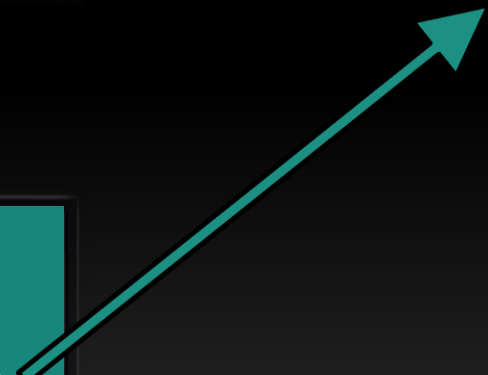
# DID YOU TAG IN? SOLVING TAGBOARD INCIDENTS



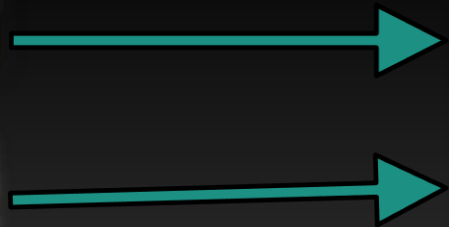
Yes



is worker  
Tagged-IN ?



# DID YOU TAG IN? SOLVING TAGBOARD INCIDENTS



is worker  
Tagged-IN ?



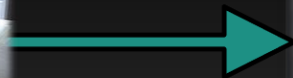
No

- Alert - Alarm
- Email Advisory
- Relays
- Visual Displays



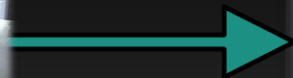
# DID YOU TAG OUT?

SOLVING TAGBOARD INCIDENTS



# DID YOU TAG OUT?

SOLVING TAGBOARD INCIDENTS



# DID YOU TAG OUT?

SOLVING TAGBOARD INCIDENTS



did worker  
Tag-OUT ?

Yes



# DID YOU TAG OUT?

SOLVING TAGBOARD INCIDENTS



did worker  
Tag-OUT ?

No



- Deny Exit
- Email Advisory
- Relays
- Visual Displays

# Progress Report



A vertical list of six horizontal progress bars. Each bar consists of a white circular marker on the left, a grey rectangular body, and a white arrowhead pointing to the right. The bars are currently empty, representing a 0% completion rate for each item.

# Progress Report

- Detect Tag-IN Incidents → Notify & Correct
- 
- 
- 
- 
-



# Progress Report

-  Detect Tag-IN Incidents → Notify & Correct
-  Detect Tag-OUT Incidents → Deny Exit
- 
- 
- 
- 

# Progress Report

- Detect Tag-IN Incidents → Notify & Correct
- Detect Tag-OUT Incidents → Deny Exit
- 
- 
- 
- 

} **Accurate TagBoard**

# Progress Report

-  Detect Tag-IN Incidents → Notify & Correct
-  Detect Tag-OUT Incidents → Deny Exit
-  Live + Historic Records → Workforce on Property
- 
- 
- 

**Accurate TagBoard**

# Progress Report

-  Detect Tag-IN Incidents → Notify & Correct
-  Detect Tag-OUT Incidents → Deny Exit
-  Live + Historic Records → Workforce on Property
-  Live + Historic Records → Workforce U/G
- 
- 

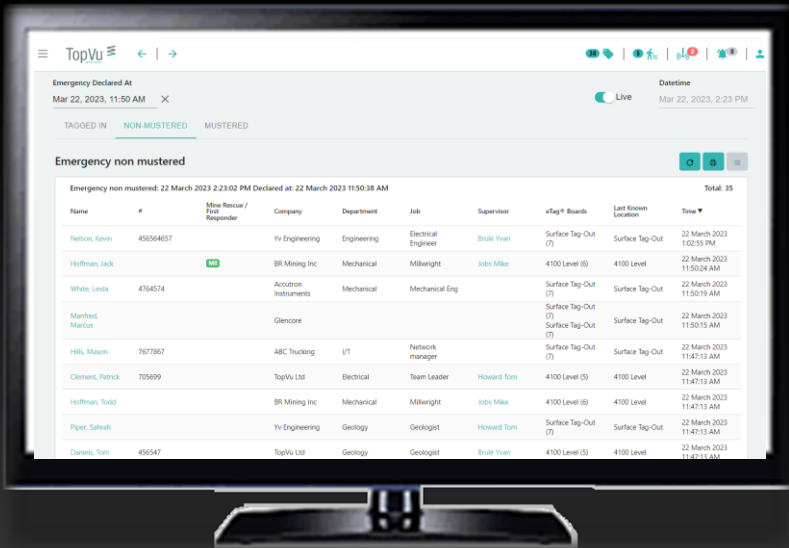
**Accurate TagBoard**

# Progress Report

-  Detect Tag-IN Incidents → Notify & Correct
-  Detect Tag-OUT Incidents → Deny Exit
-  Live + Historic Records → Workforce on Property
-  Live + Historic Records → Workforce U/G
- 
- 

**Accurate TagBoard**

**Real Time Attendance  
+ Accountability**




Emergency Declared At  
Mar 22, 2023, 11:50 AM

DATELINE  
Mar 22, 2023, 2:23 PM

TAGGED IN NON-MUSTERED MUSTERED

Emergency non mustered

Emergency non mustered: 22 March 2023 2:23:02 PM Declared at: 22 March 2023 11:50:38 AM Total: 35

Name	#	Miss Rescue / First Responder	Company	Department	Job	Supervisor	eTag® Boards	Last Known Location	Time
Nelson, Kevin	45654657		Yv Engineering	Engineering	Electrical Engineer	Brake Yuan	Surface Tag-Out (7)	Surface Tag-Out	22 March 2023 10:25:55 PM
Hoffman, Jack			BR Mining Inc	Mechanical	Milwright	Jobs Mike	4100 Level (6)	4100 Level	22 March 2023 11:50:24 AM
White, Linda	4764574		Acutron Instruments	Mechanical	Mechanical Eng		Surface Tag-Out (7)	Surface Tag-Out	22 March 2023 11:50:19 AM
Manfred, Marlene			Glencore				Surface Tag-Out (7)	Surface Tag-Out	22 March 2023 11:50:15 AM
Hill, Mason	7677867		ABC Trucking	IT	Network manager		Surface Tag-Out (7)	Surface Tag-Out	22 March 2023 11:47:13 AM
Clement, Patricia	705699		TopVu Ltd	Electrical	Team Leader	Howard Tom	4100 Level (5)	4100 Level	22 March 2023 11:47:13 AM
Hoffman, Todd			BR Mining Inc	Mechanical	Milwright	Jobs Mike	4100 Level (6)	4100 Level	22 March 2023 11:47:13 AM
Piper, Suhrah			Yv Engineering	Geology	Geologist	Howard Tom	Surface Tag-Out (7)	Surface Tag-Out	22 March 2023 11:47:13 AM
Daniels, Tom	456547		TopVu Ltd	Geology	Geologist	Brake Yuan	4100 Level (5)	4100 Level	22 March 2023 11:47:13 AM



Emergency Declared At  
 Mar 22, 2023, 11:50 AM ✕ Datetime  
Mar 22, 2023, 2:23 PM

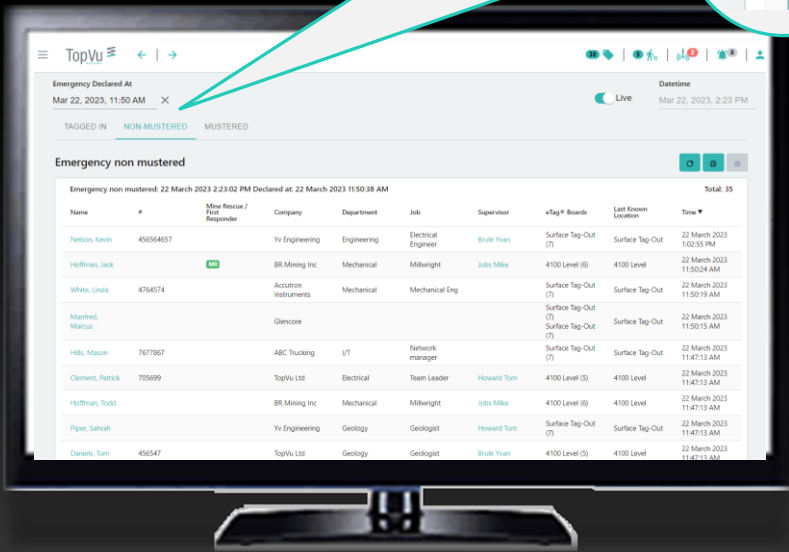
Live

TAGGED IN NON-MUSTERED MUSTERED

### Emergency non mustered

Emergency non mustered: 22 March 2023 2:32:21 PM Declared at: 22 March 2023 11:50:38 AM

Name	#	Mine Rescue / First Responder	Company	Department	Job	Supervisor	eTag® Boards	Last Known Location	Time
Nelson, Kevin	456564657		Yv Engineering	Engineering	Electrical Engineer	Brulé Yvan	Surface Tag-Out (7)	Surface Tag-Out	22 1:00
Hoffman, Jack		<span style="background-color: green; color: white; padding: 2px;">MR</span>	BR Minino Inc	Mechanical	Millwright	Jobs Mike	4100 Level (6)	4100 Level	22 ...



# Progress Report

-  Detect Tag-IN Incidents → Notify & Correct
-  Detect Tag-OUT Incidents → Deny Exit
-  Live + Historic Records → Workforce on Property
-  Live + Historic Records → Workforce U/G
- 
- 

**Accurate TagBoard**

**Real Time Attendance  
+ Accountability**



# Progress Report

-  Detect Tag-IN Incidents → Notify & Correct
-  Detect Tag-OUT Incidents → Deny Exit
-  Live + Historic Records → Workforce on Property
-  Live + Historic Records → Workforce U/G
-  Emergency List → Workforce Location & Details
- 

**Accurate TagBoard**

**Real Time Attendance  
+ Accountability**

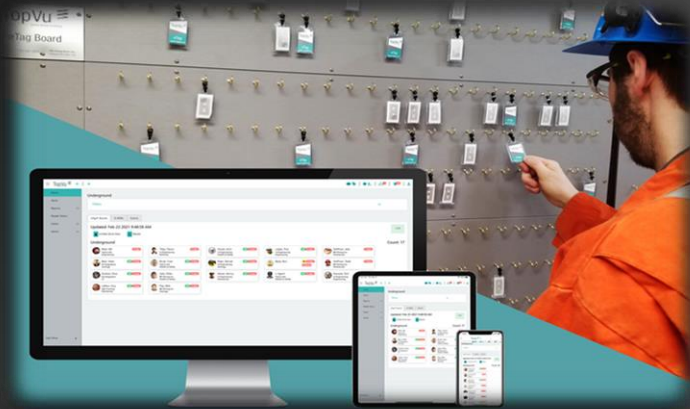
# Progress Report



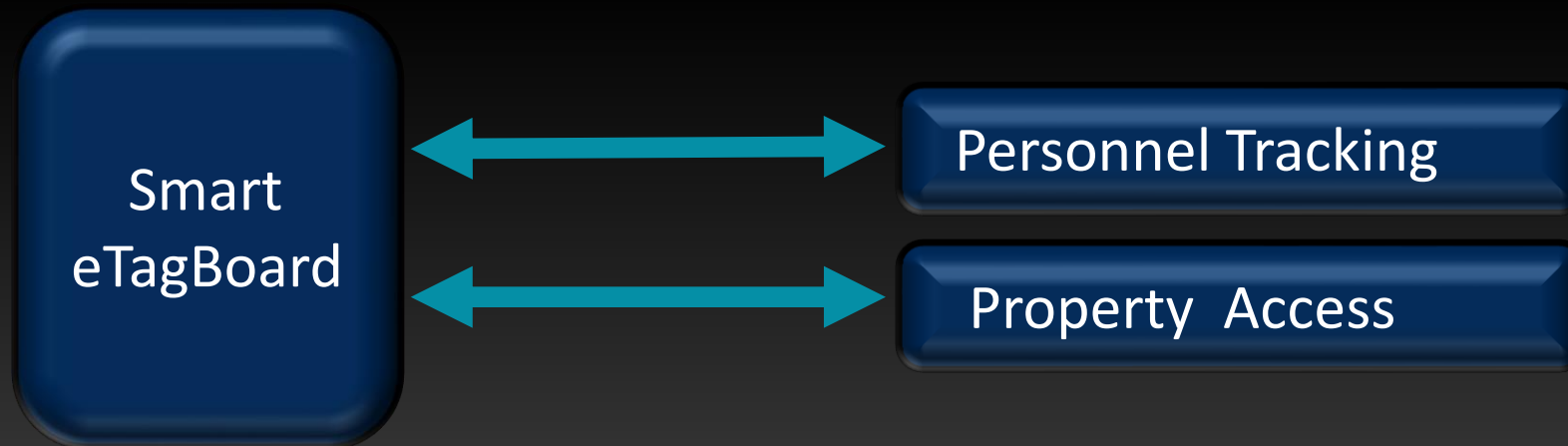
# Progress Report

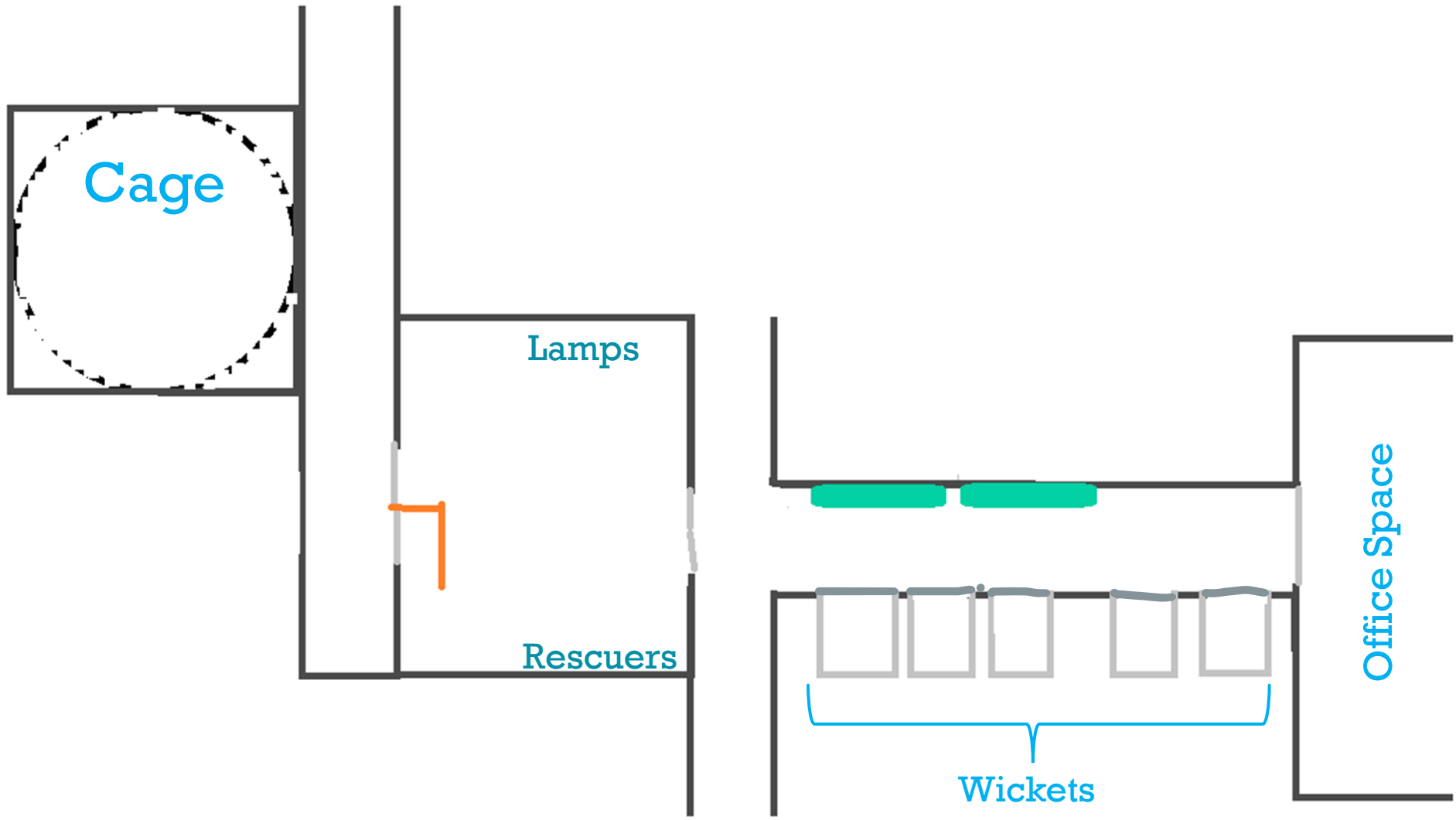


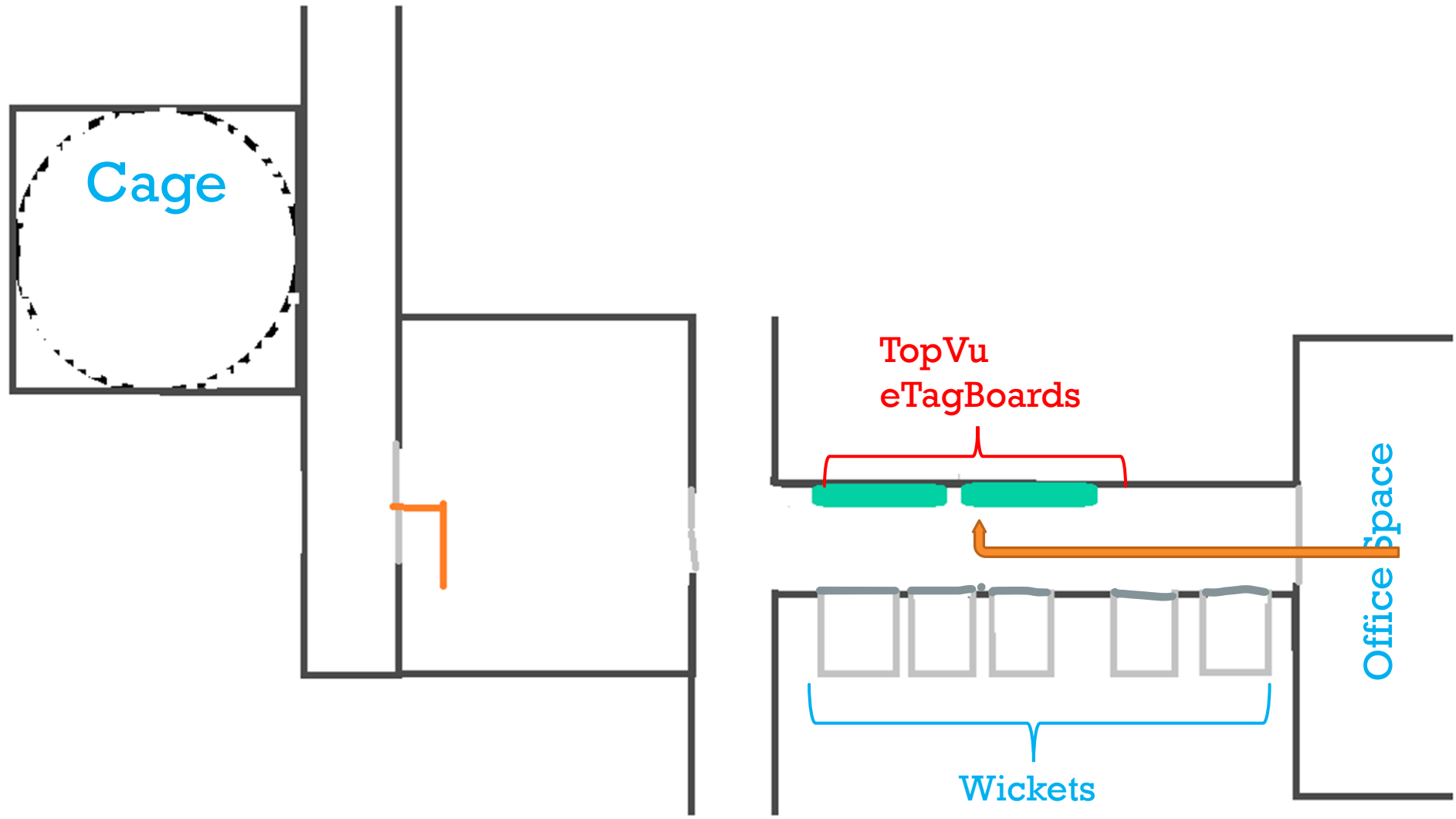
# DIGITAL TRANSFORMATION of the MINE TAGBOARD



**New level of**  
Regulatory Compliance &  
Emergency Preparedness

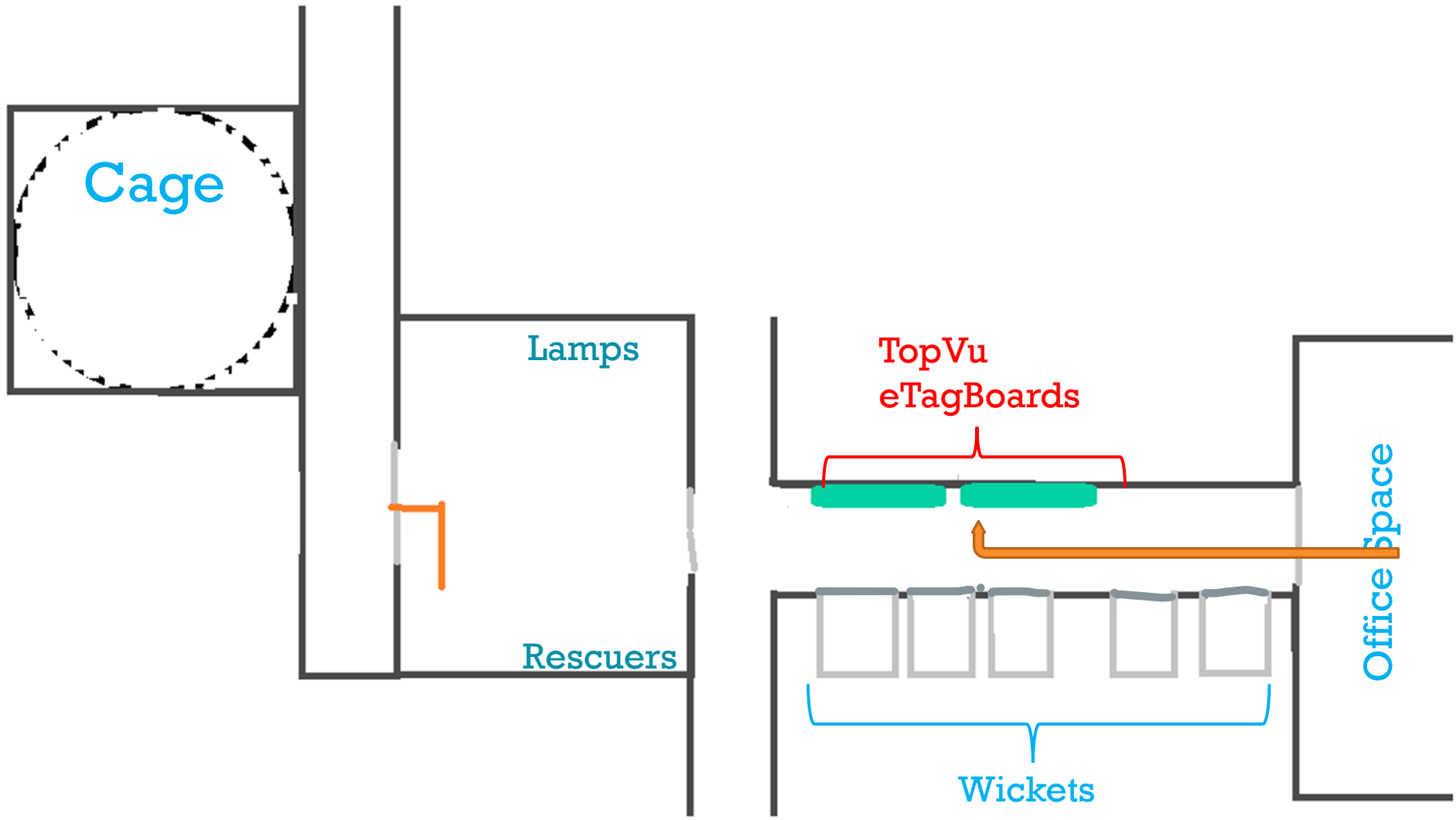


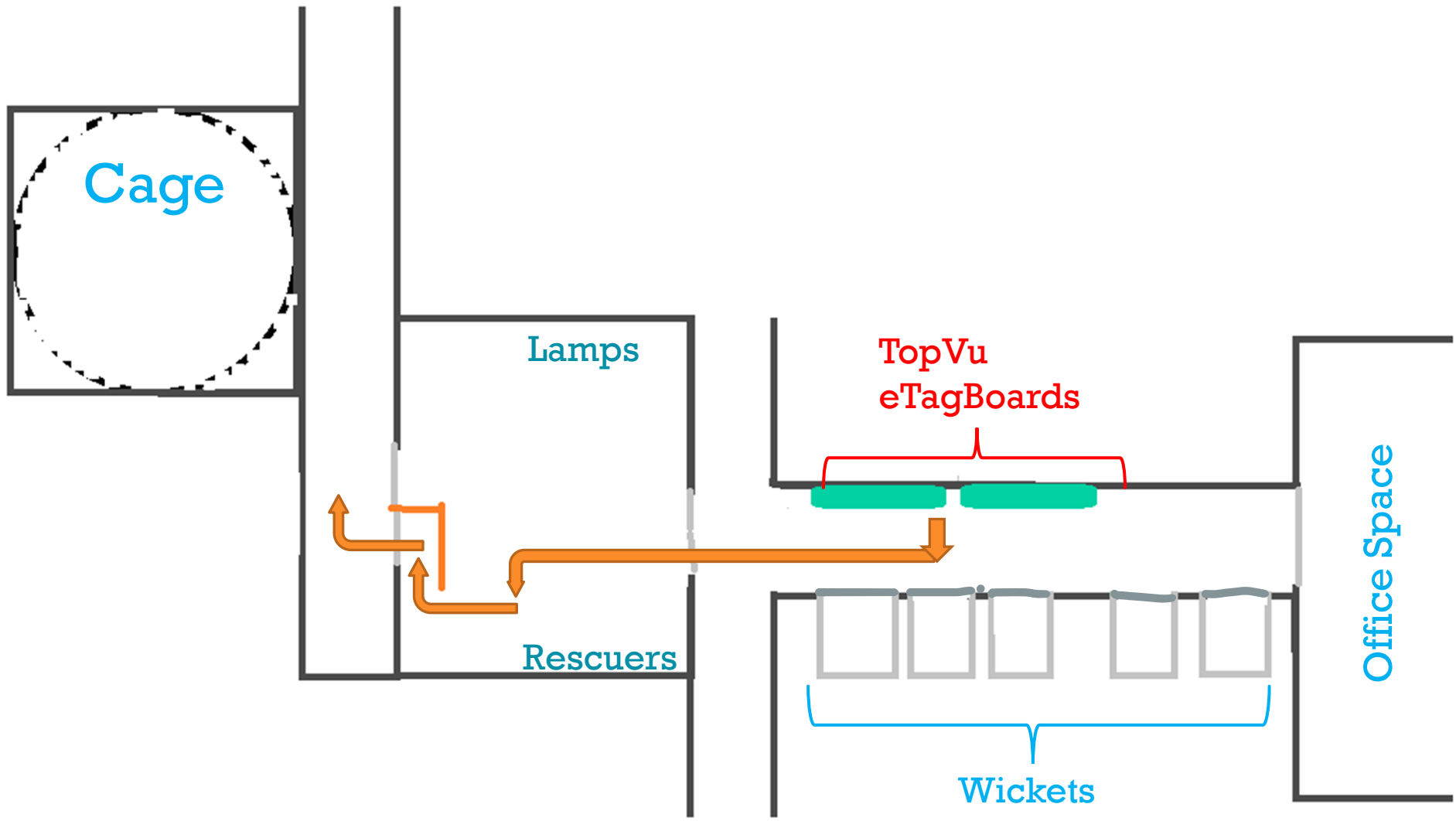


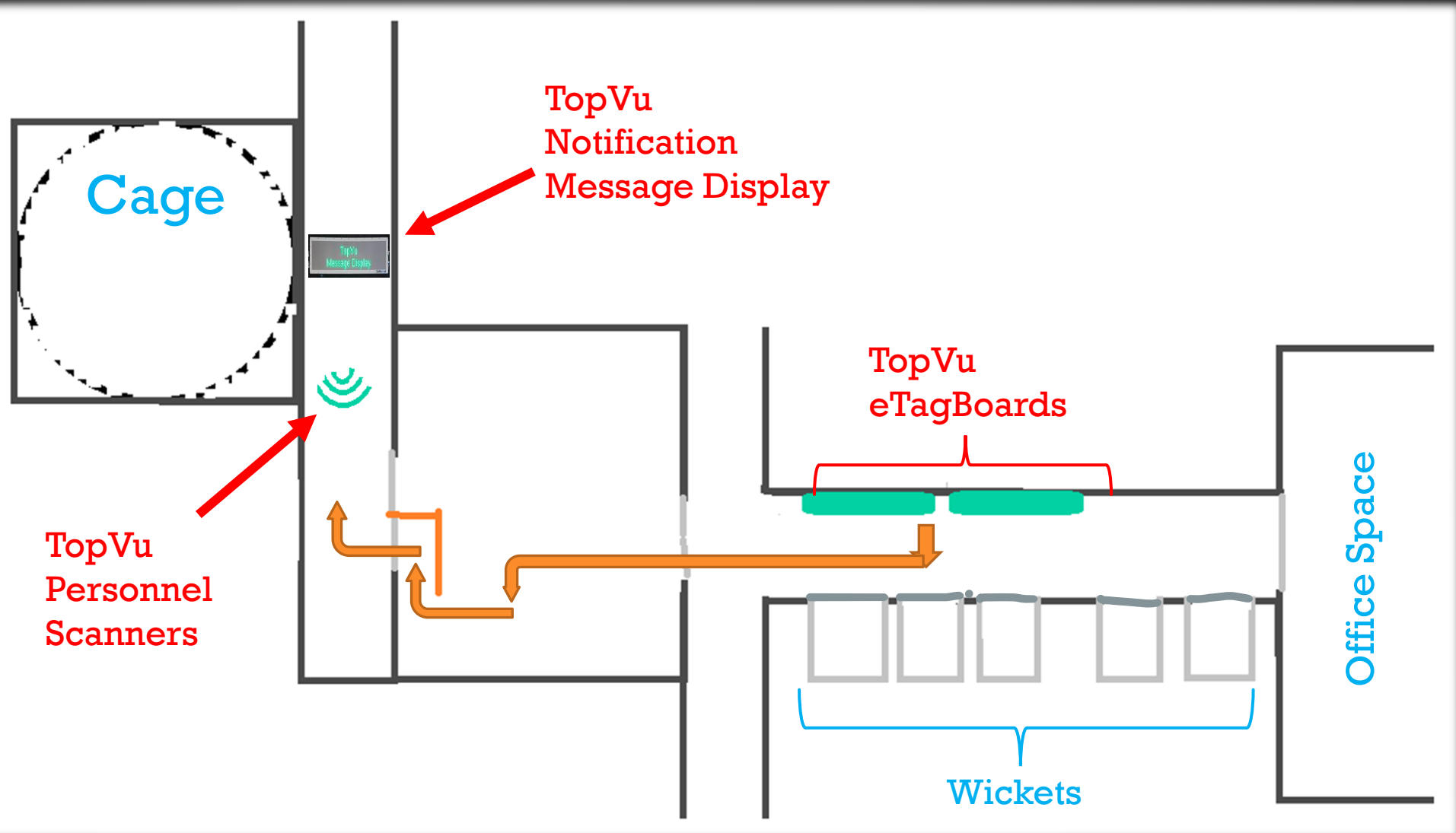












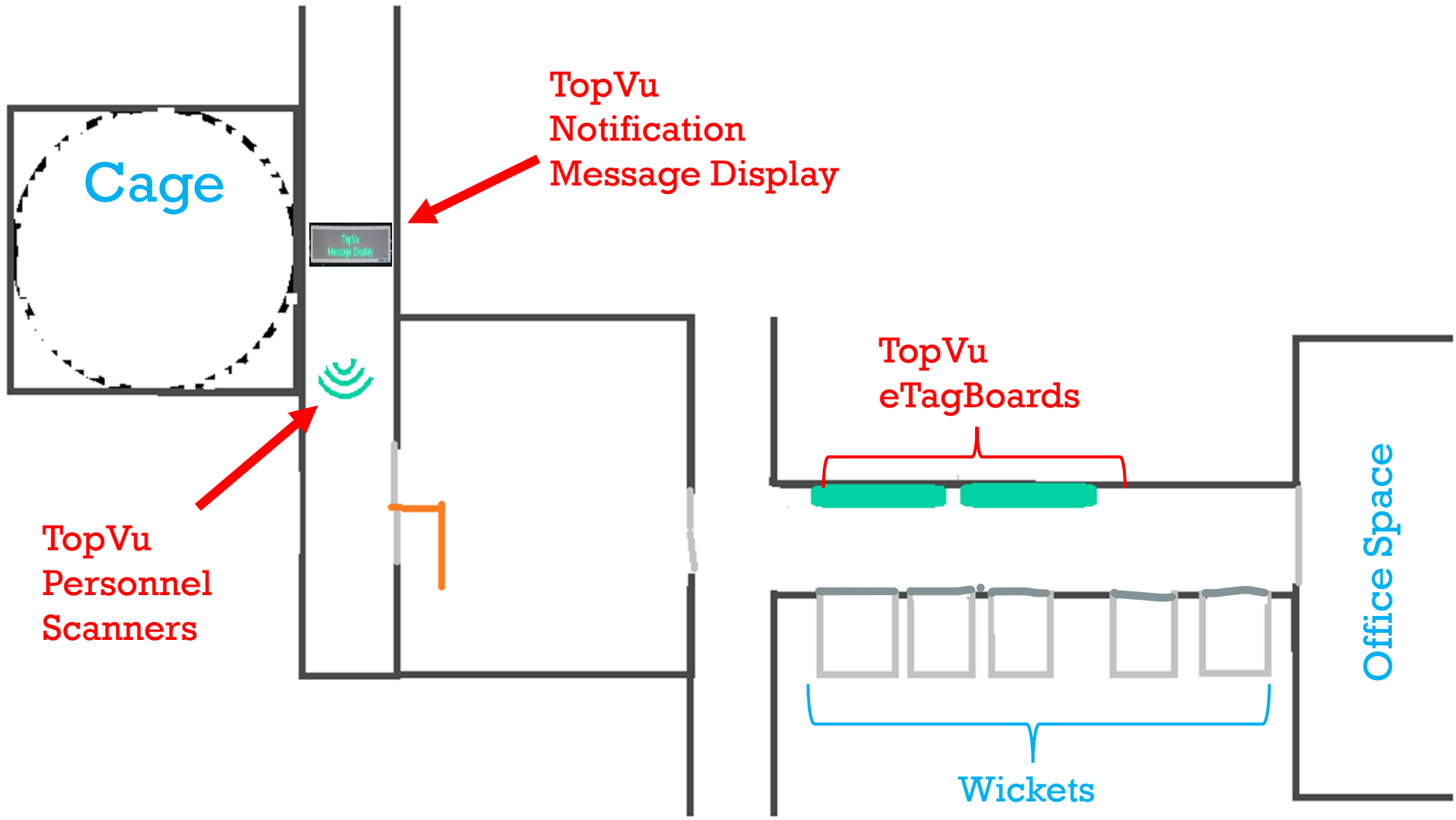


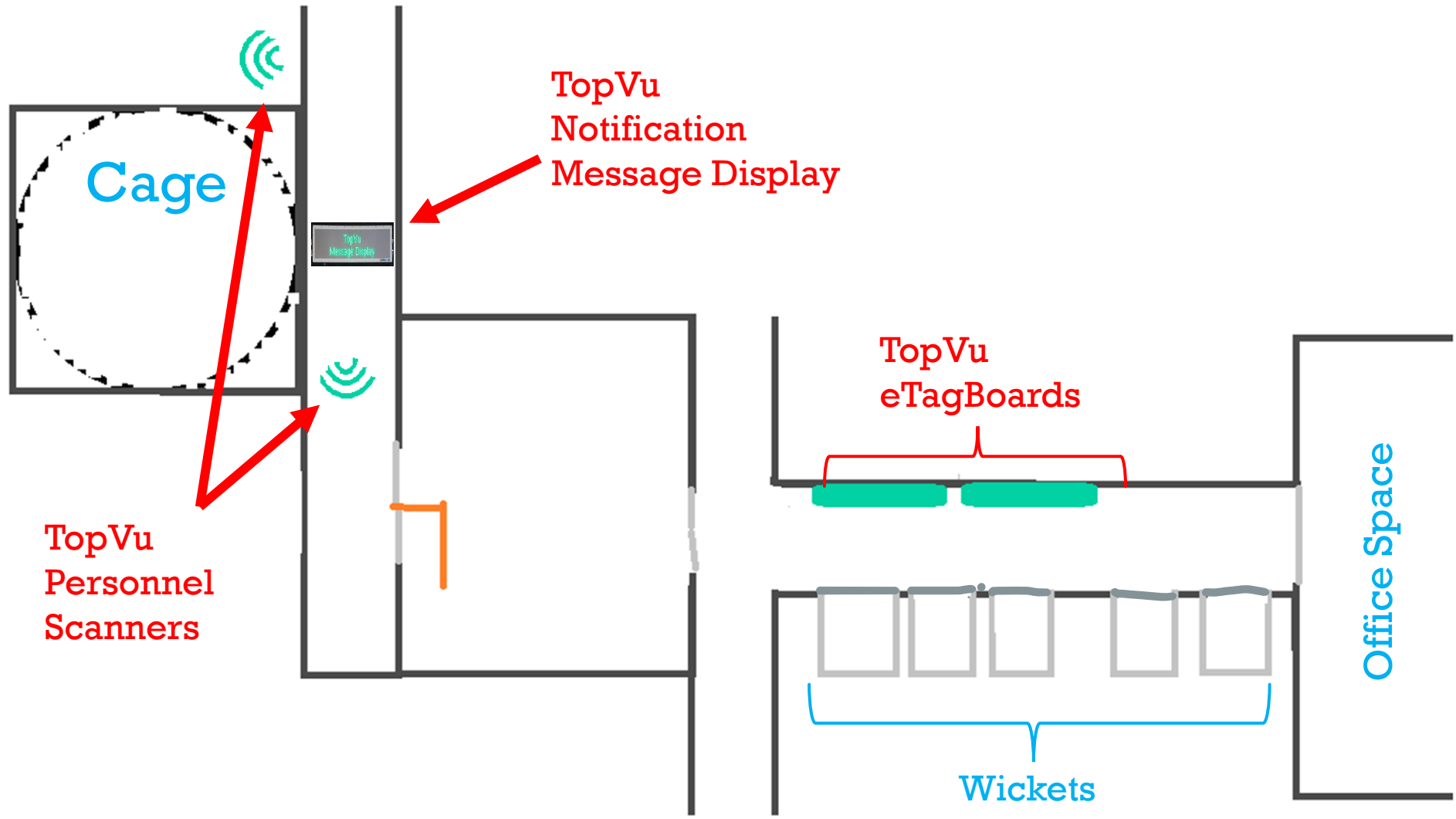
Antenna /  
Personnel  
Scanner



TopVu  
Message  
Display







Antenna /  
Personnel Scanner



## Turnstile Enter Property



## Turnstile Exit Property

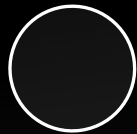
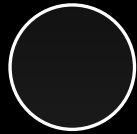




# Progress Report



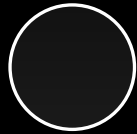
Detect Tag-IN Incidents → Notify & Correct



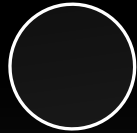
# Progress Report



Detect Tag-IN Incidents → Notify & Correct



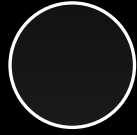
Detect Tag-OUT Incidents → (soon will deny exit)



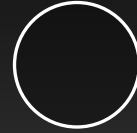
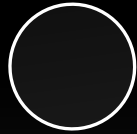
# Progress Report



Detect Tag-IN Incidents → Notify & Correct



Detect Tag-OUT Incidents → (soon will deny exit)

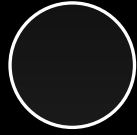


} **Accurate TagBoard**

# Progress Report



Detect Tag-IN Incidents → Notify & Correct



Detect Tag-OUT Incidents → (soon will deny exit)



Live + Historic Records → Workforce U/G

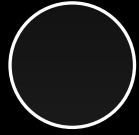


} **Accurate TagBoard**

# Progress Report



Detect Tag-IN Incidents → Notify & Correct



Detect Tag-OUT Incidents → (soon will deny exit)



Live + Historic Records → Workforce U/G



Live + Historic Records → (soon Wokforce Property)

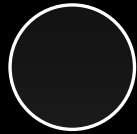


} **Accurate TagBoard**

# Progress Report



Detect Tag-IN Incidents → Notify & Correct



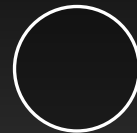
Detect Tag-OUT Incidents → (soon will deny exit)



Live + Historic Records → Workforce U/G



Live + Historic Records → (soon Wokforce Property)



**Accurate TagBoard**

**Real Time Attendance  
+ Accountability**

# Progress Report



DIGITAL TRANSFORMATION  
of the  
MINE TAGBOARD



# QUESTIONS ?