Aerial Inventory Robots:

Industrial-grade autonomous drones for inventory management

Presented by:

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PINC™

MODEX 2020

GEORGIA WORLD CONGRESS CENTER

ATLANTA | MARCH 9-12

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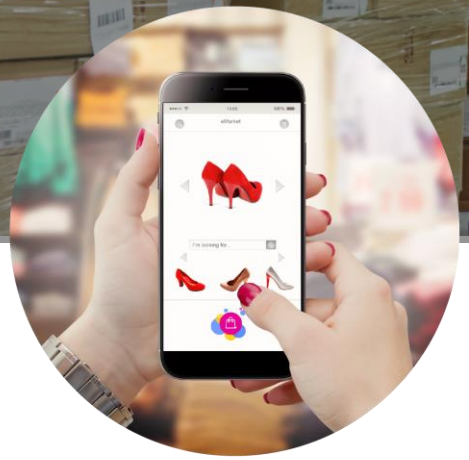
INVENTORY MANAGEMENT IS GETTING MORE COMPLEX



CONSUMER DEMANDS

LABOR SHORTAGE

WAREHOUSE CAPACITY

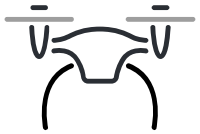
TARIFFS AND CHINA

OMNICHANNEL STRATEGY

While companies are fighting for inventory accuracy and supply chain velocity.

Sterilite
Crown
SPOON
SPALDING
Sterilite

Pioneering Inventory Robots Tech Since 2014

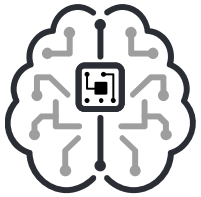


AUTONOMOUS DRONE TECHNOLOGY

Pioneer in autonomous indoor and outdoor navigation technology

COMPUTER VISION TECHNOLOGY

Capture and process visual data several times faster than humans



ARTIFICIAL INTELLIGENCE

Advanced machine intelligence enable organizations to make better decisions

RFID SENSORS

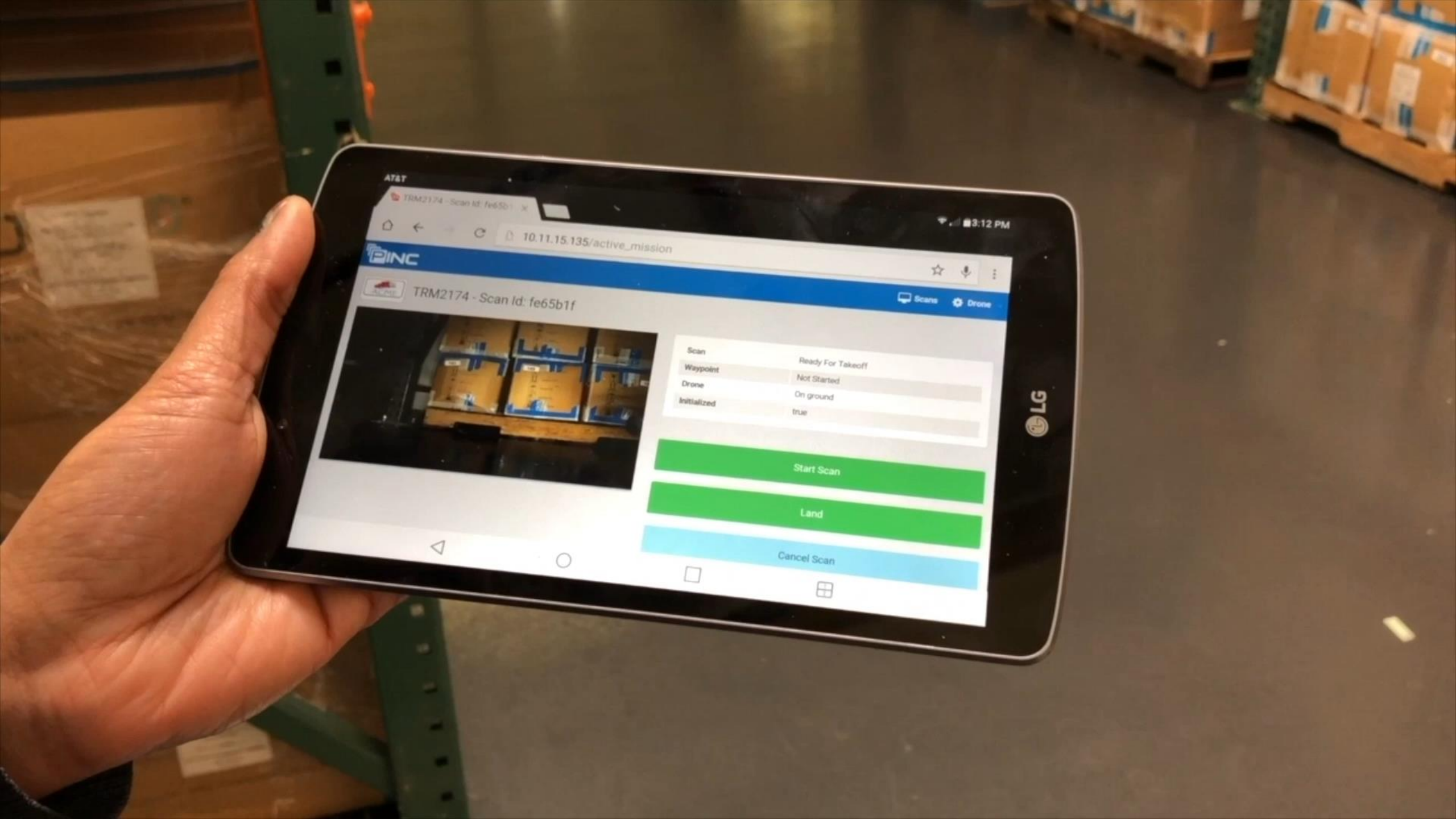
Patented solution enables identification and location of assets

CLOUD COMPUTING

Since 2004, PINC is a cloud-native solutions company

ADVANCED SOFTWARE

Powerful software process and displays information in real-time


AT&T
3:12 PM
10.11.15.135/active_mission
PINC
TRM2174 - Scan Id: fe65b1f
Scans
Drone
Scan
Ready For Takeoff
Waypoint
Not Started
Drone
On ground
Initialized
true
Start Scan
Land
Cancel Scan
LG

TRM2174 - Scan Id: 06aba2c

Scan	Running
Waypoint	Running 06aba2c7-9a25-4439-be6d-e1950f7f4c1c. On task 5. Playing: true
Drone	In air
Initialized	true
Optometry	active

Pause

Land

Cancel Scan

Current Slot

A1002

Inventory

MULTI-LABEL AND MULTI-ORIENTATION SCANS

It doesn't matter how many and how your labels are placed

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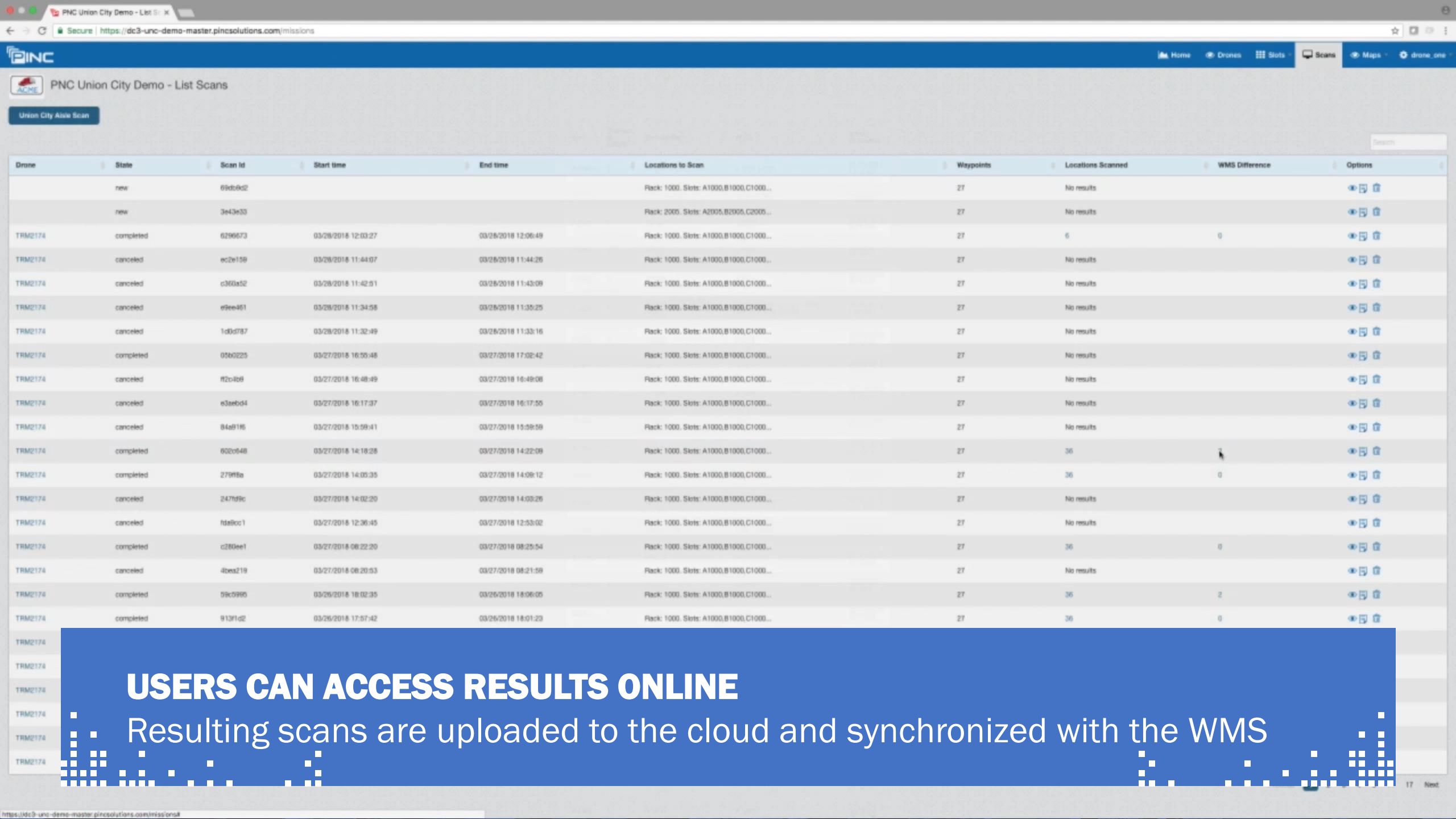
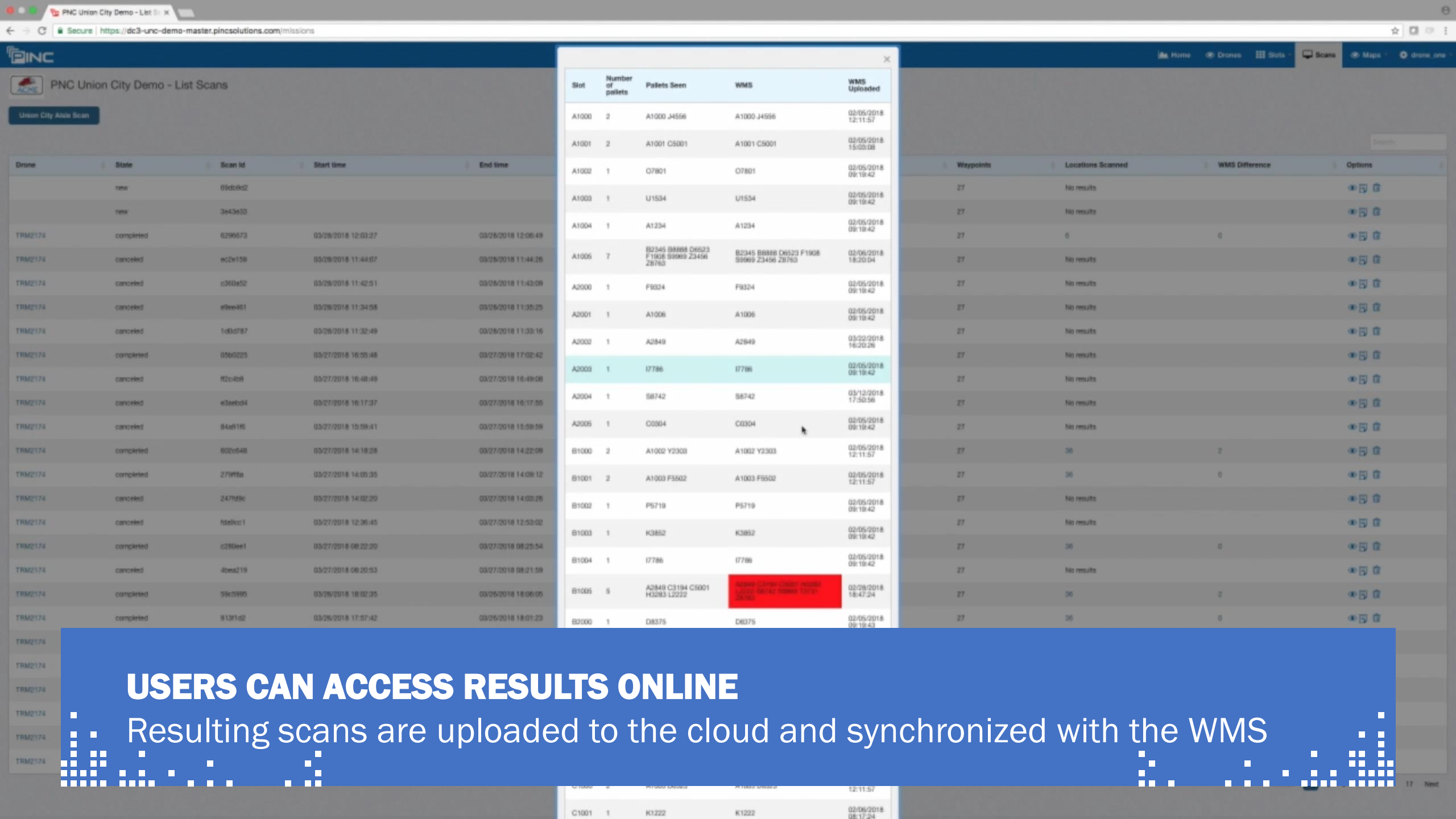

PNC Union City Demo - List Scans
Union City Aisle Scan
Drone
State
Scan Id
Start time
End time
Locations to Scan
Waypoints
Locations Scanned
WMS Difference
Options
USERS CAN ACCESS RESULTS ONLINE
Resulting scans are uploaded to the cloud and synchronized with the WMS


PNC Union City Demo - List Scans
Union City Aisle Scan
Slot
Number of pallets
Pallets Seen
WMS
WMS Uploaded
USERS CAN ACCESS RESULTS ONLINE
Resulting scans are uploaded to the cloud and synchronized with the WMS

Slot: NP095702B

WMS	Inventory Scanned
00000000000659419697	00000000000659419697
00000000000660302421	

New Inventory
00000000000659419697

Use WMS Inventory

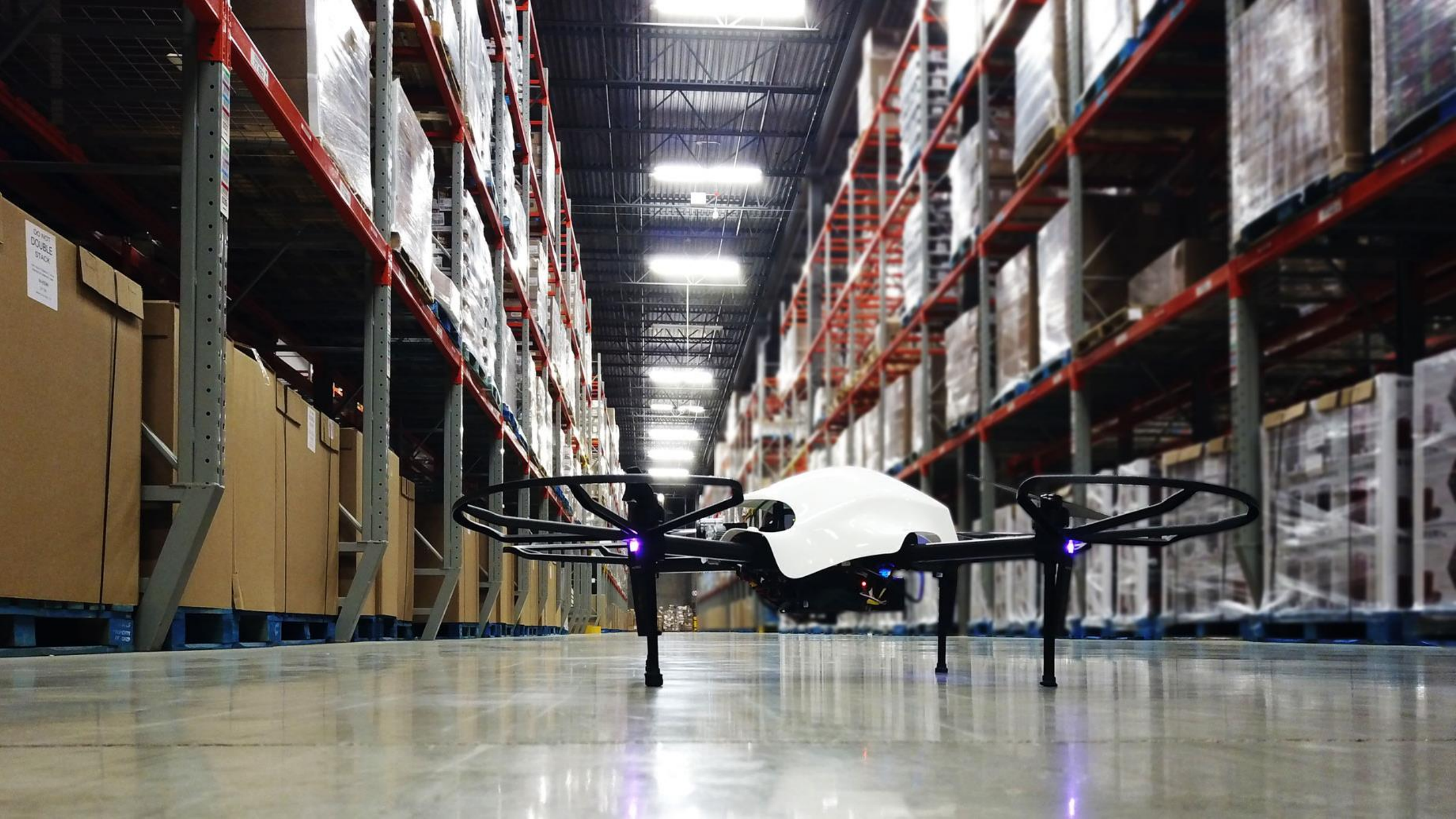
Use Scan Results

Add

Reconcile

AUTOMATED VISUAL RECONCILIATION

Images of resulting scans are available for real-time online reconciliation


DO NOT
DOUBLE
STACK

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