

Aerial Inventory Robots:

Industrial-grade autonomous drones
for inventory management

Presented by:

Matt Yearling

CEO, PINC



POWERED BY **POSSIBILITIES.**



MODEX 2020

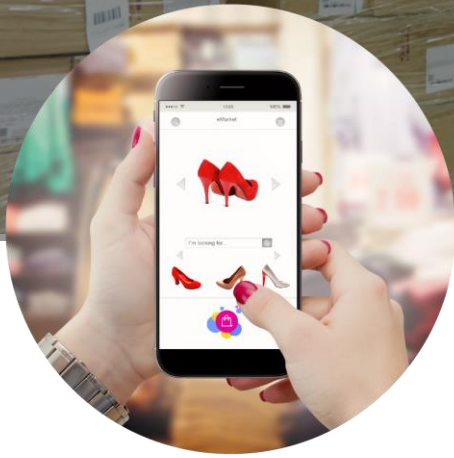
GEORGIA WORLD CONGRESS CENTER
ATLANTA | MARCH 9-12

MODEXSHOW.COM

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INVENTORY MANAGEMENT IS GETTING MORE COMPLEX



CONSUMER
DEMANDS



LABOR
SHORTAGE



WAREHOUSE
CAPACITY



TARIFFS AND
CHINA



OMNICHANNEL
STRATEGY

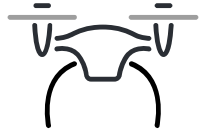
While companies are fighting for inventory accuracy and supply chain velocity.

POWERED BY POSSIBILITIES.





Pioneering Inventory Robots Tech Since 2014



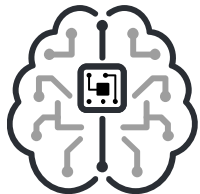
AUTONOMOUS DRONE TECHNOLOGY

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

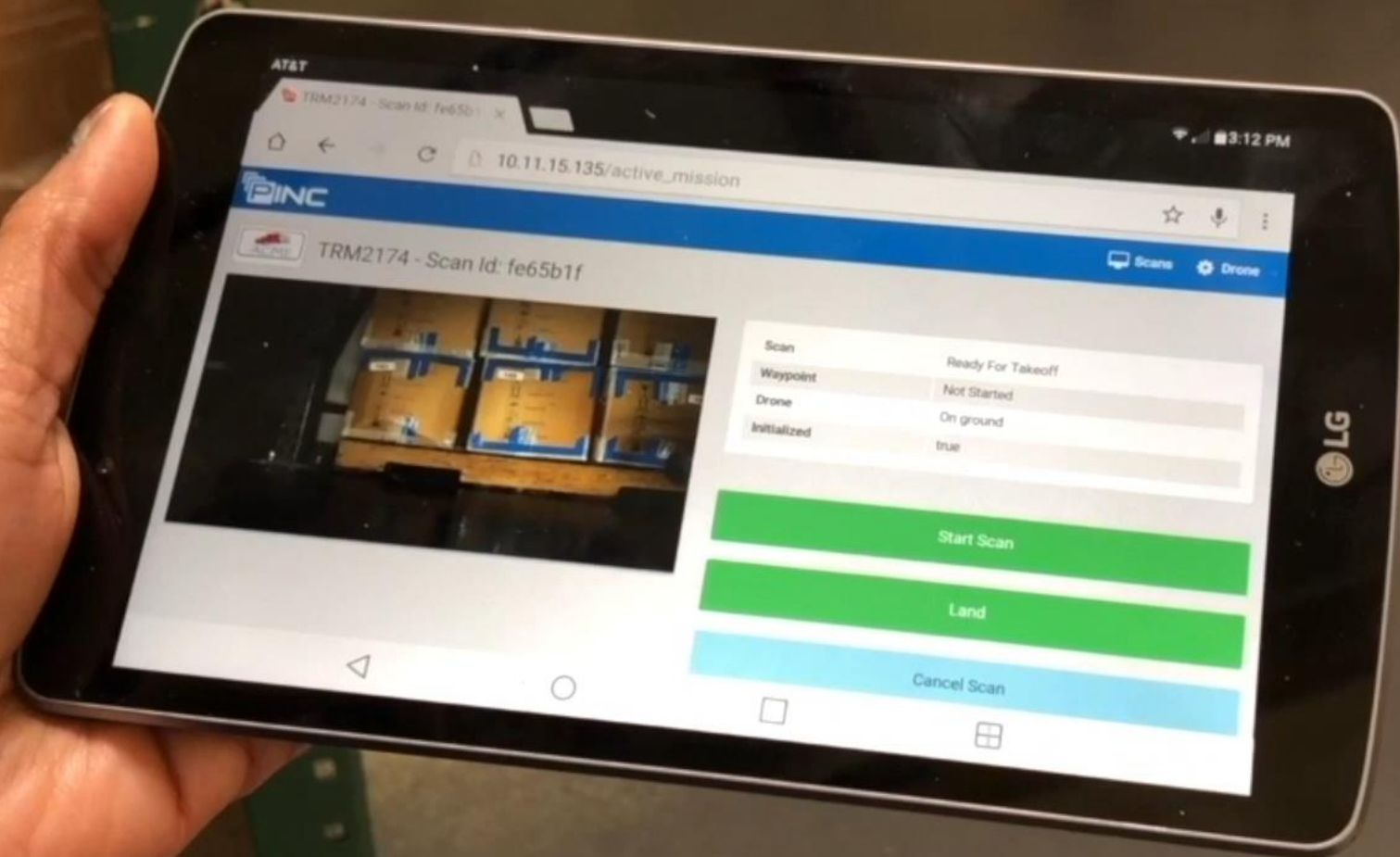
Since 2004, PINC is a cloud-native solutions company



ADVANCED SOFTWARE

Powerful software process and displays information in real-time

POWERED BY POSSIBILITIES.





TRM2174 - Scan Id: 06aba2c



Current Slot
A1002

Inventory

| | |
|-------------|--|
| 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

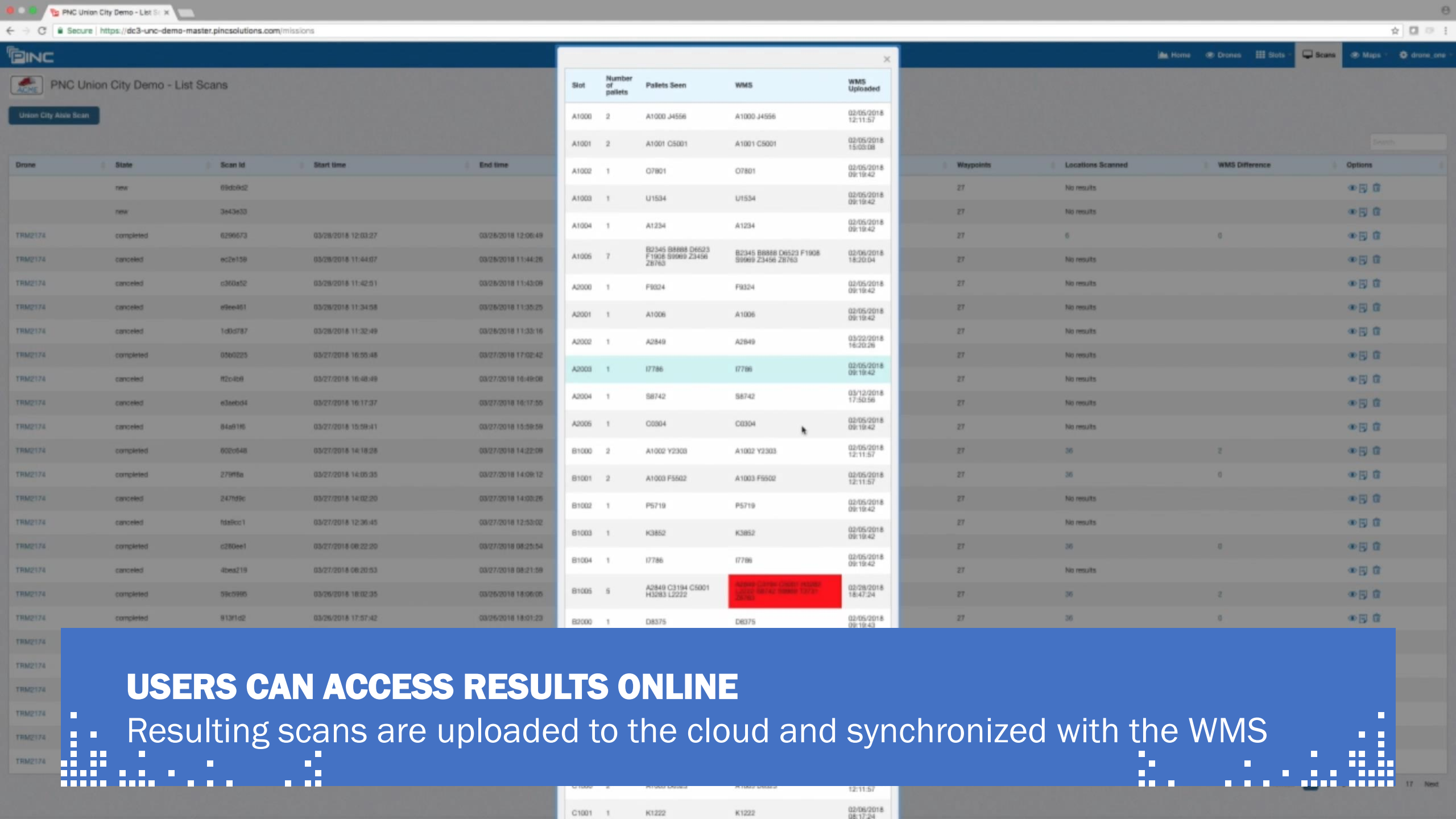
MULTI-LABEL AND MULTI-ORIENTATION SCANS

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

USERS CAN ACCESS RESULTS ONLINE

Resulting scans are uploaded to the cloud and synchronized with the WMS

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| Scan | | | | | Waypoints | | | | |
|---------|-----------|---------|---------------------|---------------------|-----------|-------------------|----------------|---------|--|
| Drone | State | Scan Id | Start time | End time | Waypoints | Locations Scanned | WMS Difference | Options | |
| | new | 69dbd52 | | | 27 | No results | | | |
| | new | 3443e33 | | | 27 | No results | | | |
| TRM2174 | completed | 6296673 | 03/26/2018 12:03:27 | 03/26/2018 12:06:49 | 27 | 6 | 0 | | |
| TRM2174 | canceled | ec2e158 | 03/26/2018 11:44:07 | 03/26/2018 11:44:26 | 27 | No results | | | |
| TRM2174 | canceled | c360a52 | 03/26/2018 11:42:51 | 03/26/2018 11:43:09 | 27 | No results | | | |
| TRM2174 | canceled | e9ee461 | 03/26/2018 11:34:58 | 03/26/2018 11:35:25 | 27 | No results | | | |
| TRM2174 | canceled | 1ddc787 | 03/26/2018 11:32:49 | 03/26/2018 11:33:16 | 27 | No results | | | |
| TRM2174 | completed | 03b0225 | 03/27/2018 16:55:48 | 03/27/2018 17:02:42 | 27 | No results | | | |
| TRM2174 | canceled | f2c0b6 | 03/27/2018 16:48:49 | 03/27/2018 16:49:08 | 27 | No results | | | |
| TRM2174 | canceled | e3aebd4 | 03/27/2018 16:17:37 | 03/27/2018 16:17:55 | 27 | No results | | | |
| TRM2174 | canceled | 84a916 | 03/27/2018 15:59:41 | 03/27/2018 15:59:58 | 27 | No results | | | |
| TRM2174 | completed | 602c648 | 03/27/2018 14:18:28 | 03/27/2018 14:22:08 | 27 | 36 | 2 | | |
| TRM2174 | completed | 279ff8a | 03/27/2018 14:05:35 | 03/27/2018 14:09:12 | 27 | 36 | 0 | | |
| TRM2174 | canceled | 247d9c | 03/27/2018 14:02:20 | 03/27/2018 14:03:26 | 27 | No results | | | |
| TRM2174 | canceled | fdaf0c1 | 03/27/2018 12:36:45 | 03/27/2018 12:53:02 | 27 | No results | | | |
| TRM2174 | completed | c280ee1 | 03/27/2018 08:22:20 | 03/27/2018 08:25:54 | 27 | 36 | 0 | | |
| TRM2174 | canceled | 4bxa219 | 03/27/2018 08:20:53 | 03/27/2018 08:21:59 | 27 | No results | | | |
| TRM2174 | completed | 99c596 | 03/26/2018 18:02:35 | 03/26/2018 18:06:05 | 27 | 36 | 2 | | |
| TRM2174 | completed | 913f1d2 | 03/26/2018 17:57:42 | 03/26/2018 18:01:23 | 27 | 36 | 0 | | |

| Slot | Number of palets | Palets Seen | WMS | WMS Uploaded |
|-------|------------------|---|---|---------------------|
| A1000 | 2 | A1000 J4556 | A1000 J4556 | 02/05/2018 12:11:57 |
| A1001 | 2 | A1001 C5001 | A1001 C5001 | 02/05/2018 15:03:08 |
| A1002 | 1 | Q7801 | Q7801 | 02/05/2018 09:19:42 |
| A1003 | 1 | U1534 | U1534 | 02/05/2018 09:19:42 |
| A1004 | 1 | A1234 | A1234 | 02/05/2018 09:19:42 |
| A1005 | 7 | B2345 B8888 D6523 F1904 S9989 Z3456 Z8763 | B2345 B8888 D6523 F1904 S9989 Z3456 Z8763 | 02/06/2018 18:20:04 |
| A2000 | 1 | F9324 | F9324 | 02/05/2018 09:19:42 |
| A2001 | 1 | A1006 | A1006 | 02/05/2018 09:19:42 |
| A2002 | 1 | A2849 | A2849 | 03/22/2018 16:20:26 |
| A2003 | 1 | I7786 | I7786 | 02/05/2018 09:19:42 |
| A2004 | 1 | S8742 | S8742 | 03/12/2018 17:50:56 |
| A2005 | 1 | C0004 | C0304 | 02/05/2018 09:19:42 |
| B1000 | 2 | A1002 Y2308 | A1002 Y2303 | 02/05/2018 12:11:57 |
| B1001 | 2 | A1003 F5502 | A1003 F5502 | 02/05/2018 12:11:57 |
| B1002 | 1 | P5719 | P5719 | 02/05/2018 09:19:42 |
| B1003 | 1 | K3852 | K3852 | 02/05/2018 09:19:42 |
| B1004 | 1 | I7786 | I7786 | 02/05/2018 09:19:42 |
| B1005 | 6 | A2849 C3194 C5001 H3283 L2222 | A2849 C3194 C5001 H3283 L2222 | 02/28/2018 18:47:24 |
| B2000 | 1 | D8375 | D8375 | 02/05/2018 09:19:43 |

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Resulting scans are uploaded to the cloud and synchronized with the WMS

Slot: NP095702B



WMS

00000000000659419697

00000000000660302421



Inventory Scanned

00000000000659419697

New Inventory

00000000000659419697



Use WMS Inventory

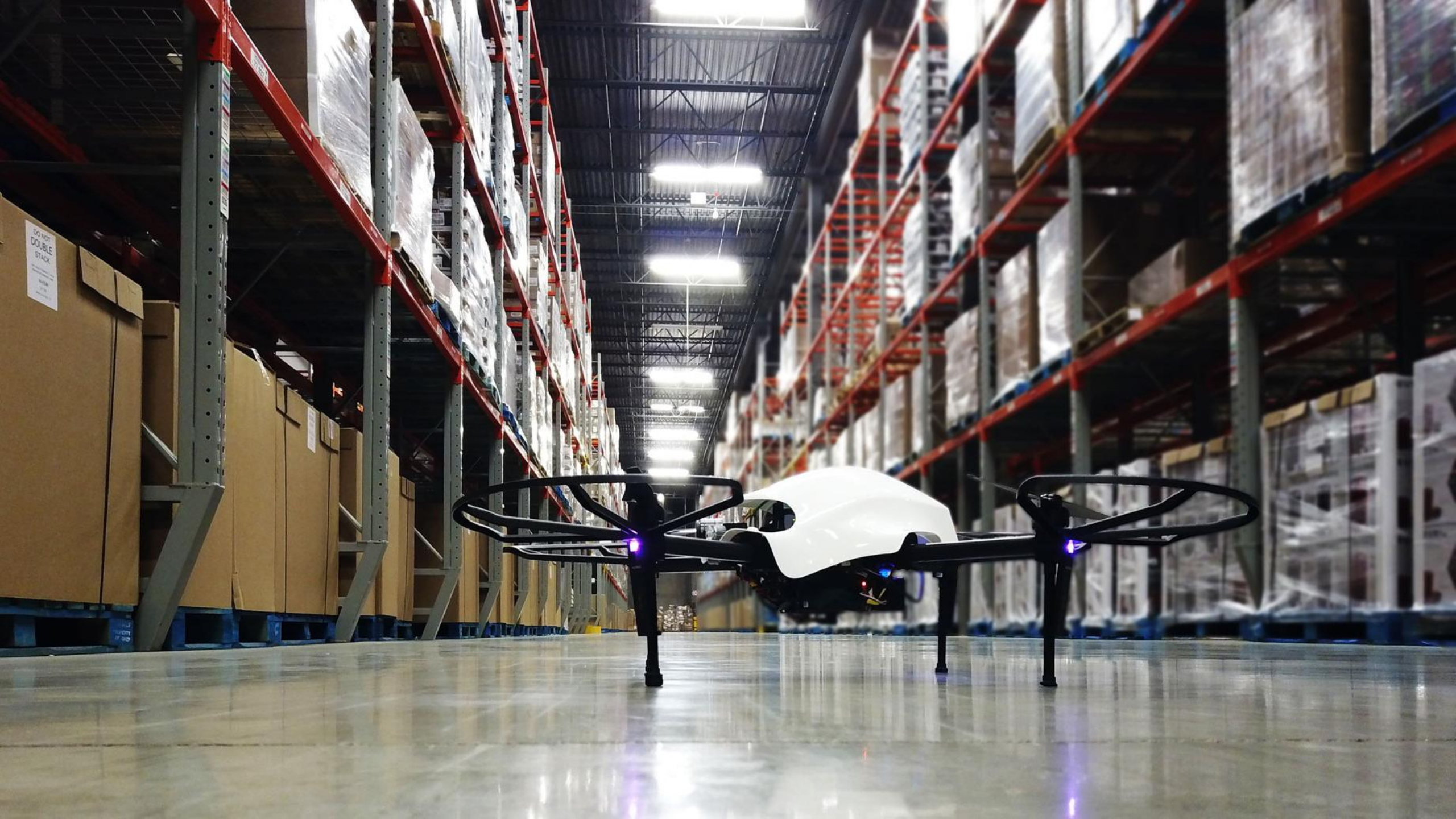
Use Scan Results

Add

Reconcile

AUTOMATED VISUAL RECONCILIATION

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



For more information:

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Website: www.pinc.com

Or visit MODEX Booth: [#8281](#)

