

## Web & Mobile Application

Redesign UX/UI

Noorul Ameen

Jul 2020



# Drone Surveillance of Warehouses



*Camera 1*



*Camera 2*



*Camera 3*



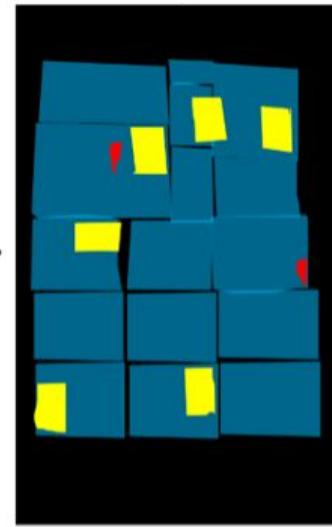
*Camera 4*

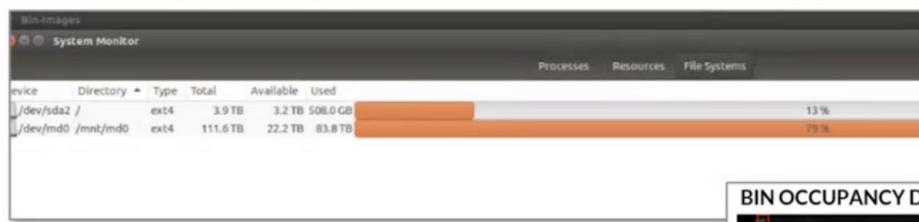
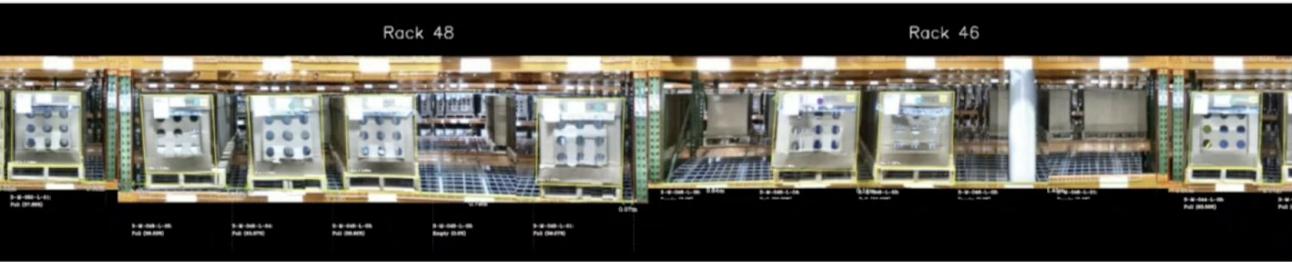


*Inter-camera Stitched Image*

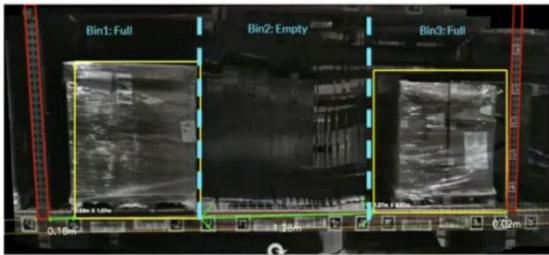


*Stitched Object Masks*

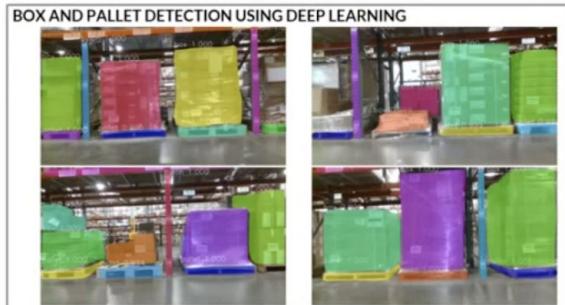
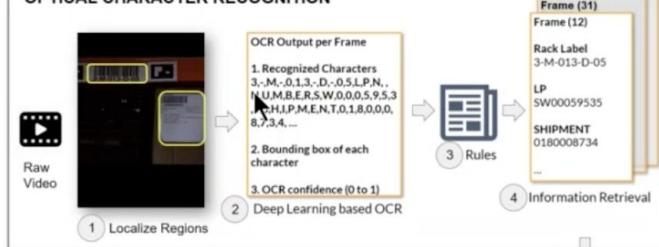




### BIN OCCUPANCY DETECTION AND REPORTING



### OPTICAL CHARACTER RECOGNITION

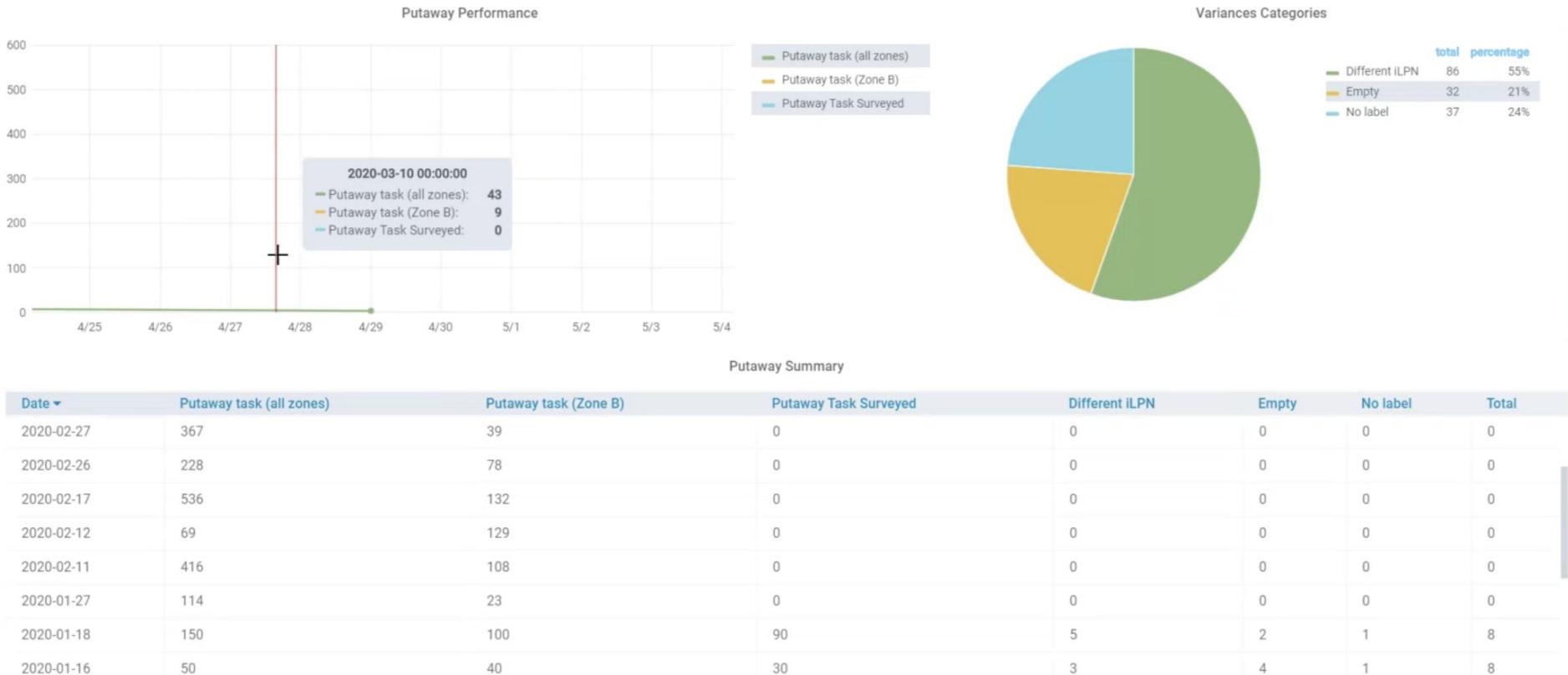


Vimaan app demo. 34:07

NA



# Existing UI



From date

12/1/2019



TO date

5/5/2020



Location

iLPN

Location Search

Flight Date and Time ▾

Location

LPN

2020-02-27 00:00:00

3-M-013-F-10

-



2020-02-27 00:00:00

3-M-013-F-06

-

2020-02-27 00:00:00

3-M-013-F-02

-

2020-02-27 00:00:00

3-M-013-F-01

-

2020-02-27 00:00:00

3-M-009-F-10

-

2020-02-27 00:00:00

3-M-009-F-09

SW00009679

2020-02-27 00:00:00

3-M-009-F-06

-

2020-02-27 00:00:00

3-M-007-F-09

-

2020-02-27 00:00:00

3-M-013-F-04

-

2020-02-27 00:00:00

3-M-011-F-10

-

2020-02-27 00:00:00

3-M-011-F-08

-

2020-02-27 00:00:00

3-M-011-F-02

-

2020-02-27 00:00:00

3-M-011-F-01

-

2020-02-27 00:00:00

1

2

3

4

5

6

7

8

9

3-M-009-F-06

SW00009679

|&lt; First

&lt; Previous

Next &gt;

&gt;| Last

# no image available



# Wireframes

←

California

Search

Download

Bell

Profile

## Tasks

Putaway  
Last run: 33 mins ago

Cycle Count  
Last run: 20 mins ago

Bin Audit  
Last run: 1 hr ago

Origin of Tasks  
Last run: 47 mins ago

## Reports

Location Reconciliation

Putaway Reconciliation

Cycle Count Status

To show the list,  
please select an option from the left panel

←

📍 California

## Cycle Count Status

	Weekly	Monthly	Quarterly	
	Actual Count	QIC Team	%	
862	1,053	105	May 27, 2020	>
863	1,335	122	May 27, 2020	>
864	1,259	114	May 27, 2020	>
865	1,335	105	May 27, 2020	>
866	1,053	122	May 27, 2020	>
<b>Total</b>	<b>866</b>	<b>1,053</b>	<b>122</b>	

Filter Search Download

Search

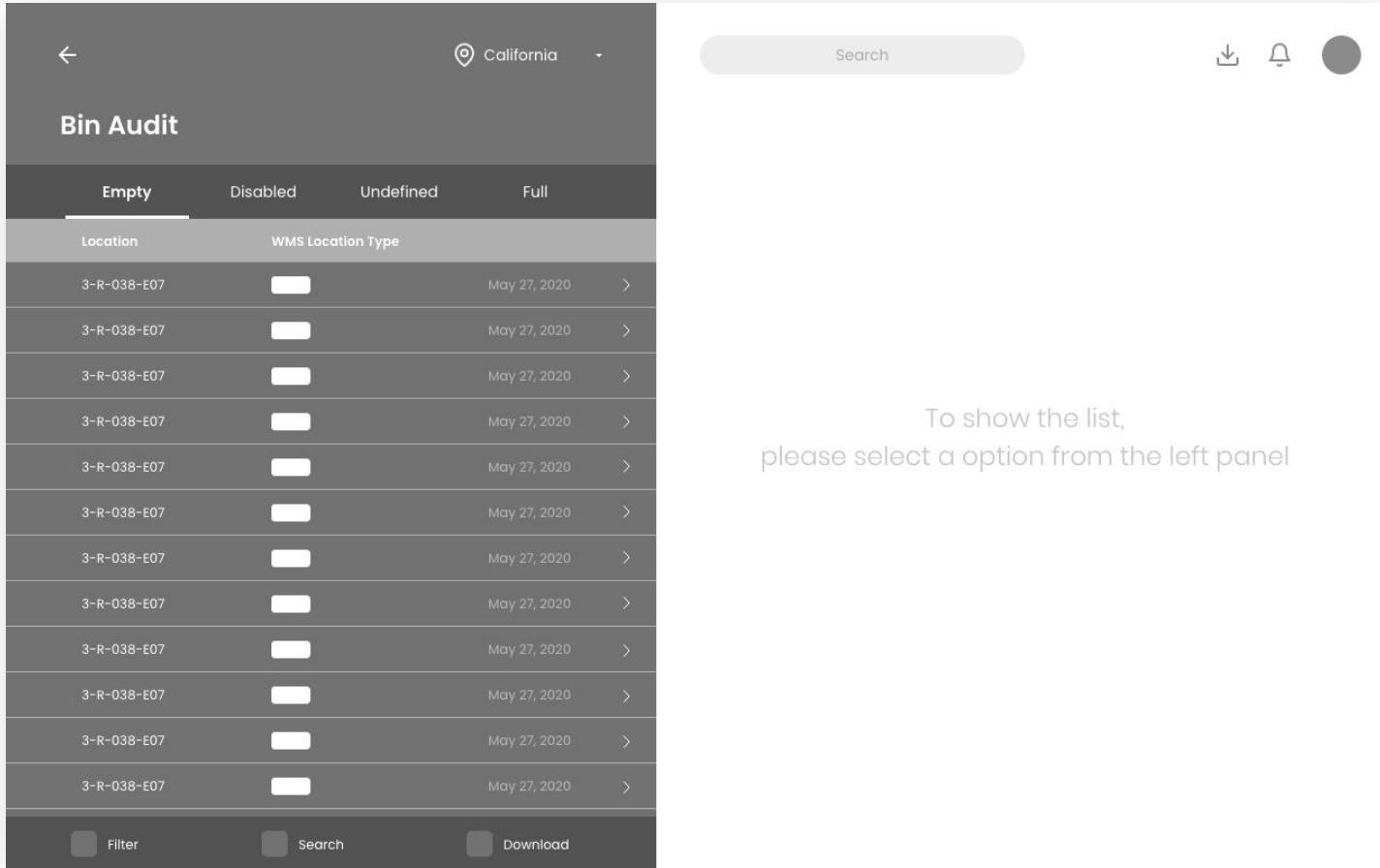
Download Bell

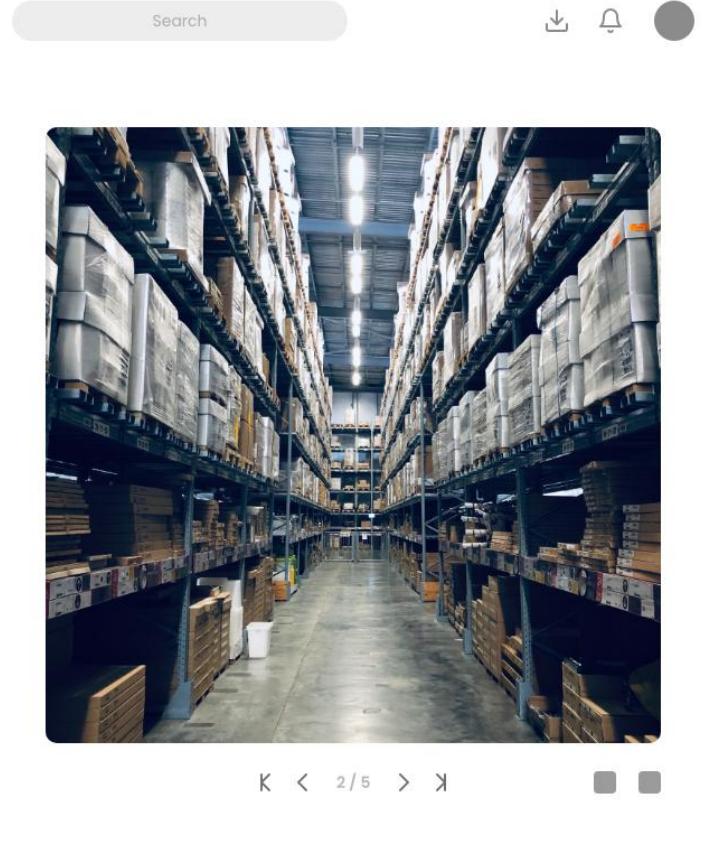
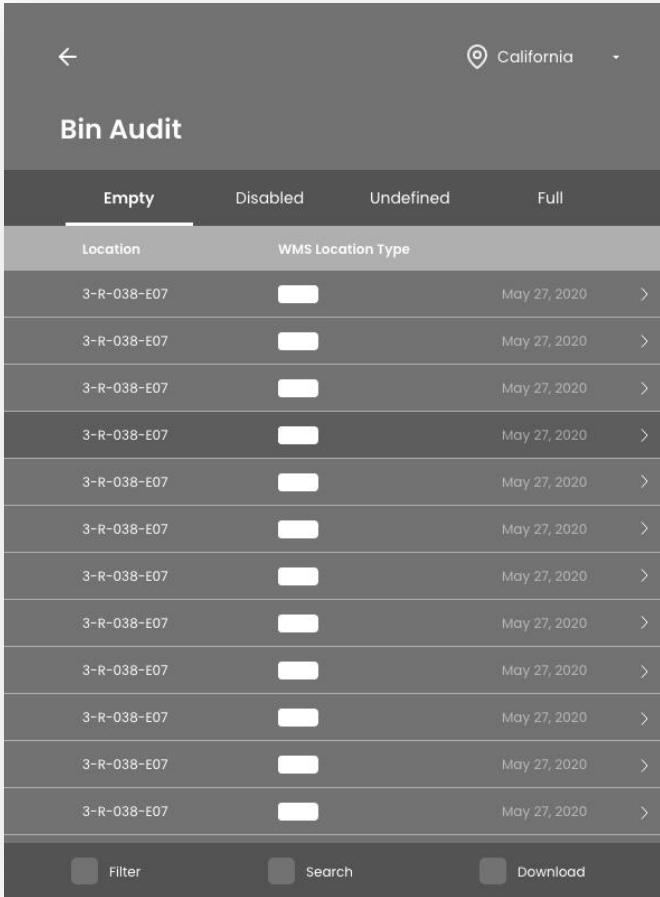
Goal 800 Today 682 Yesterday 1,107

Actual Count Goal

May 23 May 24 May 25 May 26 May 27 May 28

Action 1 Action 2





←       California      ⏎

## Tasks

 **Putaway**  
Last run: 33 mins ago

 **Cycle Count**   
Last run: 20 mins ago

 **Bin Audit**  
Last run: 1 hr ago

 **Origin of Tasks**  
Last run: 47 mins ago

## Reports

 **Location Reconciliation**

 **Putaway Reconciliation**

 **Cycle Count Status**

---

To show the list,  
please select a option from the top panel

Cycle Count Status				
Weekly	Monthly	Quarterly	Full	
Actual Count	QIC Team	%		
862	1,053	105	May 27, 2020	
863	1,559	105	May 27, 2020	
864	1,053	105	May 27, 2020	
865	1,245	105	May 27, 2020	
866	1,053	105	May 27, 2020	
<b>Total</b> 866	1,053	105	May 27, 2020	

Goal  
**800**

Today  
**682**

Yesterday  
**1,107**

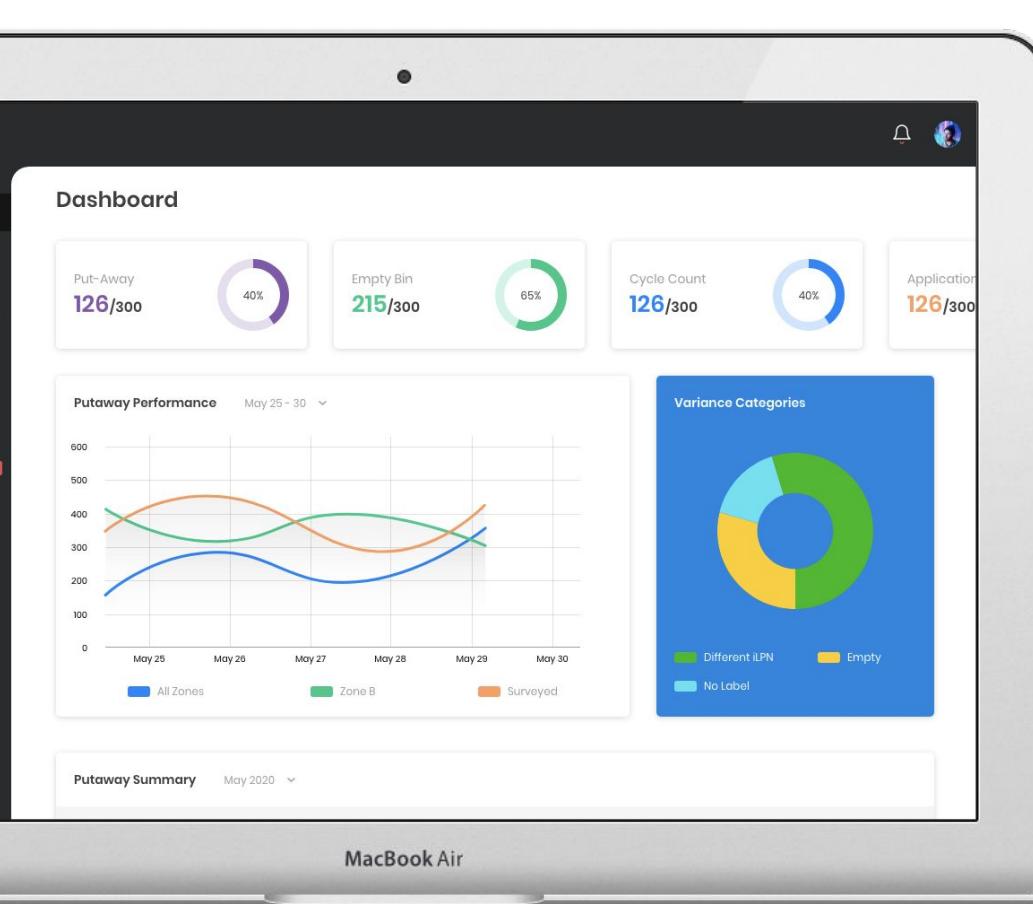
Actual Count (Green Line) and Goal (Blue Line) from May 23 to May 28.

Date	Actual Count	Goal
May 23	862	800
May 24	1,053	800
May 25	863	800
May 26	1,559	1,053
May 27	1,053	1,053
May 28	1,245	1,053

Action 1

Action 2

# Desktop User Experience



MacBook Air

Home

Search

Zone A Putaway

Time	Location	ILPN	Alert
06:15 PM	<a href="#">3-M-013-F-10</a>	AFS34764	Alerts
03:30 PM	<a href="#">3-M-013-F-10</a>	WID65738	Empty
11:30 AM	<a href="#">3-M-013-F-10</a>	AFS34764	Alerts
03:30 PM	<a href="#">3-M-013-F-10</a>	WID65738	Alerts
11:30 AM	<a href="#">3-M-013-F-10</a>	AFS34764	Alerts
03:30 PM	<a href="#">3-M-013-F-10</a>	WID65738	Alerts
11:30 AM	<a href="#">3-M-013-F-10</a>	AFS34764	Empty
11:30 AM	<a href="#">3-M-013-F-10</a>	AFS34764	Empty
03:30 PM	<a href="#">3-M-013-F-10</a>	WID65738	Alerts
11:30 AM	<a href="#">3-M-013-F-10</a>	AFS34764	Empty
03:30 PM	<a href="#">3-M-013-F-10</a>	WID65738	Empty
11:30 AM	<a href="#">3-M-013-F-10</a>	AFS34764	Empty
03:30 PM	<a href="#">3-M-013-F-10</a>	WID65738	Empty
11:30 AM	<a href="#">3-M-013-F-10</a>	AFS34764	Alerts
03:30 PM	<a href="#">3-M-013-F-10</a>	WID65738	Alerts

A

B

C

D

E

F

G

H

+

-

Alerts

Empty

MacBook Air

Home

Zone A Putaway

Search

Floor Map

Time Location ILPN Alert

Time	Location	ILPN	Alert
06:15 PM	<a href="#">3-M-013-F-10</a>	AFS34764	Alerts
03:30 PM	<a href="#">3-M-013-F-10</a>	WID65738	Empty
11:30 AM	<a href="#">3-M-013-F-10</a>	AFS34764	Alerts
03:30 PM	<a href="#">3-M-013-F-10</a>	WID65738	Alerts
11:30 AM	<a href="#">3-M-013-F-10</a>	AFS34764	Alerts
03:30 PM	<a href="#">3-M-013-F-10</a>	WID65738	Alerts
11:30 AM	<a href="#">3-M-013-F-10</a>	AFS34764	Empty
11:30 AM	<a href="#">3-M-013-F-10</a>	AFS34764	Empty
03:30 PM	<a href="#">3-M-013-F-10</a>	WID65738	Alerts
11:30 AM	<a href="#">3-M-013-F-10</a>	AFS34764	Empty
03:30 PM	<a href="#">3-M-013-F-10</a>	WID65738	Empty
11:30 AM	<a href="#">3-M-013-F-10</a>	AFS34764	Alerts
03:30 PM	<a href="#">3-M-013-F-10</a>	WID65738	Empty
11:30 AM	<a href="#">3-M-013-F-10</a>	AFS34764	Alerts
03:30 PM	<a href="#">3-M-013-F-10</a>	WID65738	Empty

A13

←

Details go here [View image](#)

Details go here [View image](#)

Alerts Empty

MacBook Air

Dashboard

Search

Put-Away

Empty Bin

Cycle Count

QC Gate

Application New

Settings

## QC Gate

Shipment No, Pallet No, etc...

 Shipment Pallet Alerts

Sort by ▾

## Filter

## Shipment Due

July 2020						
S	M	T	W	T	F	S
28	29	30	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1

## Alert Type

- Inbound (18)
- Outbound (32)

## Status

- Delayed (16)
- On-Time (17)

## Action

- Resolved (20)
- Unresolved (17)

Shipment No.	Alert Type	Alerts Category	Status	Action
SW00400594	Inbound	Label error	On Time	<a href="#">Go to pallet view</a>
SW00400594	Outbound	Label error	Delayed	<a href="#">Resolve</a>
SW00077564	Inbound	<Alert>	On Time	<a href="#">Go to pallet view</a>
SW00071204	Inbound	Label error	On Time	<a href="#">Go to pallet view</a>
SW00077564	Inbound	Label error	Delayed	<a href="#">Resolve</a>
SW00400594	Outbound	<Alert>	Delayed	<a href="#">Resolve</a>
SW00071204	Outbound	<Alert>	On Time	<a href="#">Go to pallet view</a>
SW00077564	Inbound	<Alert>	Delayed	<a href="#">Resolve</a>
SW00071204	Outbound	<Alert>	On Time	<a href="#">Go to pallet view</a>
SW00400594	Inbound	<Alert>	On Time	<a href="#">Go to pallet view</a>
SW00077564	Inbound	<Alert>	On Time	<a href="#">Go to pallet view</a>
SW00400594	Outbound	<Alert>	Delayed	<a href="#">Resolve</a>
SW00071204	Outbound	<Alert>	On Time	<a href="#">Go to pallet view</a>

MacBook Air

Dashboard

Search

Put-Away

Empty Bin

Cycle Count

QC Gate

Application

Settings

## QC Gate

Shipment No, Pallet No, etc...



Shipment

Pallet

Alerts

Sort by

## Filter

Shipment Due

July  
5 M T  
28 29 30  
5 6 7  
12 13 14  
19 20 21  
26 27 28

Alert Type

Inbound

Alert Category

Label Error

Status

Delayed

Select resolution reason

Status	Action
On Time	<input type="button" value="Resolve"/> >
Delayed	<input type="button" value="Resolve"/> >
On Time	<input type="button" value="Resolve"/> >
On Time	<input type="button" value="Resolve"/> >
Delayed	<input type="button" value="Resolve"/> >
Delayed	<input type="button" value="Resolve"/> >

MacBook Air

Dashboard

Search

Put-Away

Empty Bin

Cycle Count

QC Gate

Application New

Settings

## ← QC Gate

Pallet #  
124567345Shipment number  
SW00400594Arrival / departure time  
12:00pm

Number of cases

30

Expected dimensions

36 x 48 x 60 inch

Number of alerts

5

Types of alert



## Alert types

1. Volume Error 10 mins ago

Expected  
36 x 48 x 60 inchScanned  
30 x 48 x 54 inchResolve

2. Label Error 17 mins ago

Expected  
GFH758HG46Scanned  
ERH765SG46Resolve

MacBook Air

← QC Gate

Pallet  
124567345

Shipment number  
SW00400594

Arrival / departure time  
12:00pm

Number of cases  
30

Expected dimensions  
36 x 48 x 60 inch

Number of alerts  
5

Types of alert

Alert types

1. Wrong Dimension/ Volume 10 mins ago

Expected  
36 x 48 x 60 inch

Scanned  
30 x 48 x 54 inch

Resolve

2. Label Error 17 mins ago

Expected  
GFH758HG46

Scanned  
ERH765SG46

Resolve

Dashboard

Search

Put-Away

Put-Away Discrepancy

Report 1

Empty Bin

Cycle Count

Application New

Settings

## Put-Away Discrepancy Report

Profile

Plan

Start Date

End Date

Location

3-M-013-F-10

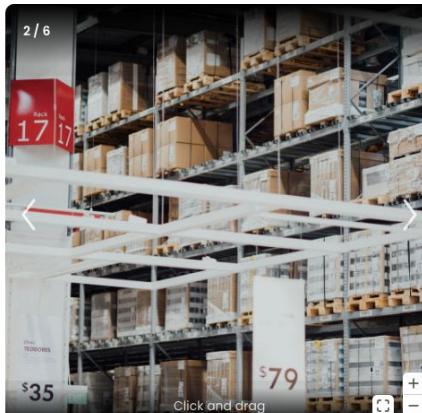
IPN

Today

May 25

Normal Image

Time	Location	IPN	Type	%
06:15 PM	3-M-013-F-10	AFS34764	Empty	0
03:30 PM	3-M-013-F-10	WID65738	Empty	0
11:30 AM	3-M-013-F-10	AFS34764	Box	72.65
03:30 PM	3-M-013-F-10	WID65738	Empty	0
11:30 AM	3-M-013-F-10	AFS34764	Empty	0
03:30 PM	3-M-013-F-10	WID65738	Box	53.72
11:30 AM	3-M-013-F-10	AFS34764	Empty	0
11:30 AM	3-M-013-F-10	AFS34764	Empty	0
03:30 PM	3-M-013-F-10	WID65738	Empty	0
11:30 AM	3-M-013-F-10	AFS34764	Box	72.65



MacBook Air

Dashboard

Search

Put-Away

Empty Bin

Cycle Count

Status Report

Report 1

Report 2

Application new

Settings

## Cycle Count Status Report

View By  
MonthlyShow  
Grid & ChartDisplay  
Actuals Forecast

Month View

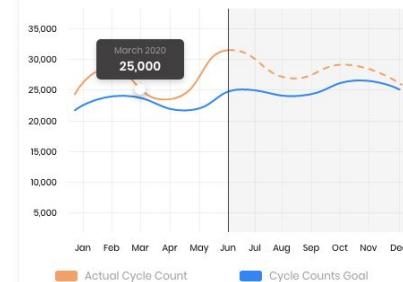
2020

Location Accuracy Goal - 99.98%

Month	Goal	Actuals	Complete (%)	Adj	Location Accuracy (%)
Jan	18,400	23,400	128%	5	99.975%
Feb	16,000	28,260	117%	3	99.996%
Mar	16,000	23,400	108%	3	99.998%
Apr	18,000	28,260	128%	2	99.995%
May	20,000	25,200	117%	6	99.978%
Jun	18,000	23,400	108%	5	99.975%

## FORECAST

Jul	18,400	25,200	108%
Aug	16,000	28,260	132%
Sep	16,000	23,400	98%



MacBook Air

## Search

Start Date  
2020-05-25End Date  
2020-05-27

Location

iLPN

Group by



Save Search

May 25, 2020

Time	Location	iLPN
06:15 PM	<a href="#">3-M-013-F-10</a>	AFS34764
03:30 PM	<a href="#">3-M-013-F-10</a>	WID65738
11:30 AM	<a href="#">3-M-013-F-10</a>	AFS34764
03:30 PM	<a href="#">3-M-013-F-10</a>	WID65738
11:30 AM	<a href="#">3-M-013-F-10</a>	AFS34764
03:30 PM	<a href="#">3-M-013-F-10</a>	WID65738
11:30 AM	<a href="#">3-M-013-F-10</a>	AFS34764



May 26, 2020

Time	Location	iLPN
11:30 AM	<a href="#">3-M-013-F-10</a>	AFS34764

MacBook Air

# Tablet User Experience

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ROBOTICS

Dashboard

Search

Put-Away

Empty Bin

Cycle Count

QC Station

Application Now

Settings

List

4/12

Scan Again

Approve All

S. No.	Item Name	Qty	Scanned Item Name	Scanned Qty.	Status	Actions
1	1046A	2	1046A	1	Under Quantity	<button>Resolve</button>
2	10SDNF45	2		0	Item Missing	<button>Resolve</button>
3	1046B	2	1046B	3	Over Quantity	<button>Resolve</button>
4		0	10SDNF47	1	Wrong Item	<button>Remove</button>
5	10BFGQN	1	17SADFS	1	OK	
6	10HF345	2	10JSJ56	2	OK	
7	10GHD67	3	104TDY56	3	OK	

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← oLPN List

Task ID  
1176725

4/12

Scan Again Approve All

	Item Name	Scanned Item Name	Status	Actions
1	Unlabeled box	Unlabeled box	Under Quantity	Resolve >
2	Unlabeled box	Unlabeled box	Item Missing	Resolve >
3	Unlabeled box	Unlabeled box	Over Quantity	Resolve >
4	Unlabeled box	Unlabeled box	Wrong Item	Remove >
5	1046A	1046A	OK	>
6	10SDNF45	10SDNF45	OK	>
7	1046B	1046B	OK	>
8	10HF345	10HF345	OK	>
9	10BFGQN	10BFGQN	OK	>
10	10GHD67	10GHD67	OK	>



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← oLPN List

Task ID: 1176725

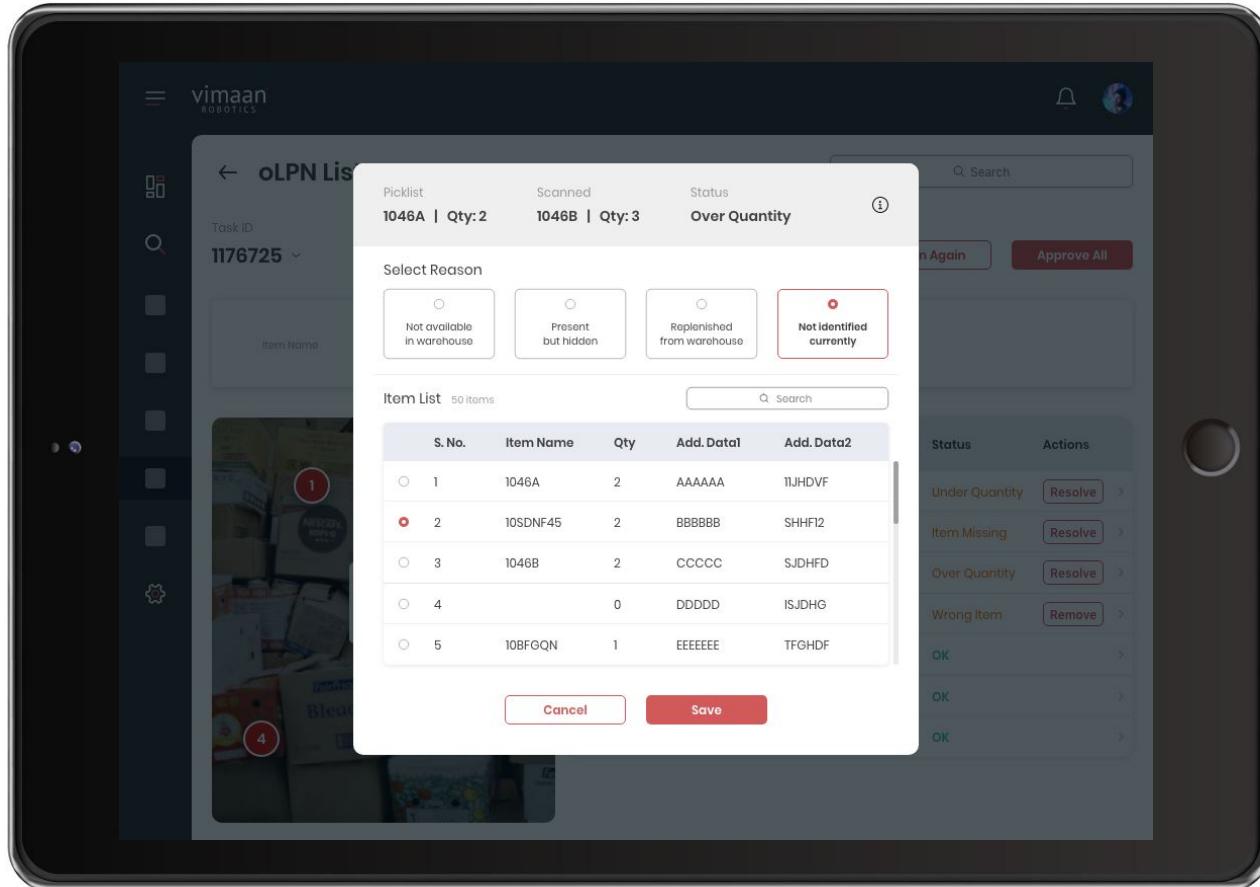
4/12

Scan Again Approve All

Item Name	Scanned Item Name	Status	Actions
1	3	Under Quantity	Resolve >
2	0	Item Missing	Resolve >
3	3	Over Quantity	Resolve >
4	1	Wrong Item	Remove >
5	1	OK	>
6	2	OK	>
7	3	OK	>

1 2 3 4





Thank you

vimaan<sup>®</sup>  
ROBOTICS

