

MAY 17 - 19, 2022

MANDALAY BAY | LAS VEGAS, NV

RFID JOURNAL LIVE!

Harvard Automates Asset Tracking and Reduces Inventory Time with RFID

Jeff DiCiaccio
Director of Strategic Procurement



Background:

Boston Children's Hospital

- Harvard University established 1636
- Harvard Medical School est.- 1782 (1906)
- Graduate School MD, PhD, & Master
- Located in Boston HSDM, HSPH, & Wyss











Background:

- 18 buildings, 2 million sq. ft.
- \$ 750 million operating expenses
- \$ 300 million Research grants and contracts (sponsored)



Sponsored Funding Definition:

Sponsored – value and quantity

HU - \$ 177 million & 5,700 = 34%

HMS - \$ 59 million & 1,800 = 42%















Asset - is \geq \$5k w/3 + years

How did a Procurement person ...?

- Asset manager left 2 weeks
- CFO "All Hands on Deck"
- 10 People not trained, no consistency, & not day job
- 254 Sponsored & 809 Non-sponsored deadline
- Voluntold August 2016







Audit of all HU Assets focus on Sponsor Funded

analysis performed by management, it was determined that as of August 2016, 731 out of the 3,690 pieces of equipment with a net book value totaling \$17.9 million had not yet been inventoried within the two year period from the last date of equipment observation.

University Corrective Action Plans:

training, rolling inventory schedules, and technology solutions (RFID)





Make life easier – RFID investigation

- Partnered with 3 schools
- 80% of total









HARVARD

School of Engineering and Applied Sciences





Selection Process:

- 1. RFP 4 + 4 Vendors
- 2. Contact 22 references









DURACELL®

































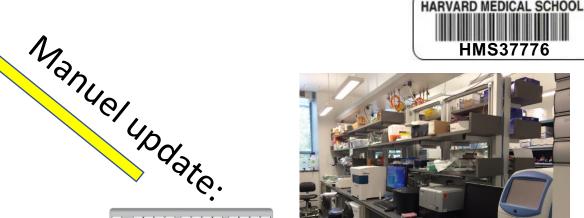


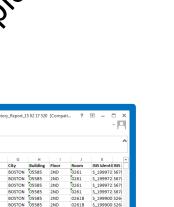












5_199972 5678

S 198349 S24





2 hours to find 50 assets 2.4 minutes/assets 173 hours/HMS assets



22236 HMS34239

22238 HMS34241 22239 HMS34244

22240 HMS34245

22242 HMS34248

22243 HMS34252

22246 HMS34382

22247 HMS34547

22251 HMS35952

Real-Time PCR Detection Syste Spectrophotomete

Dual Chamber CO2 Incubato

16-MAR-2010

28-ILIN-2013

Bio Safety Cabinet

Glass Door Refrigerato

Aguaria Rack System Telephone Recording System 8/12

Samsung LCD Flat Pane

Safty Cabinet



RFID Process

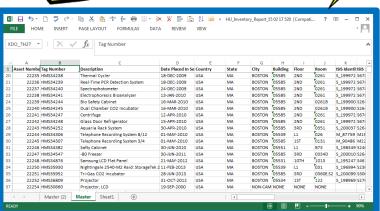


Radiant Web app











1.5 hours to find 166 assets -retag 0.5 minute/assets 39 hours/HMS assets





Reader Selected



Dimensions	Sled	MC9190-Z
Weight	13.4 oz*	34 oz
Length	6.3"	10.8"
Width	3.1"	4.7"
Height	6.8"	7.7"



*iPhone XR 6.8 oz = 20.2 oz



Old Bar code tag 1.75" x 0.63"



We use - passive RFID style

Edge tag 1.77" x 0.22" x 0.03"

Universal tag (most common) 1.875" x 0.63" x 0.05"

Data Center tag (with hole for cable tie) 1.50" x 0.51" x 0.16"









Not to scale





Timeline

- Expected Timeline
 - Investigation to completion 7 months
- Reality Timeline
 - Investigation to completion 18 months





Deployment/Implementation Issues

- Funding \$
- Test environment



- Departure of Project members
- Covid



Inventory – 2 yr. cycle July 2018

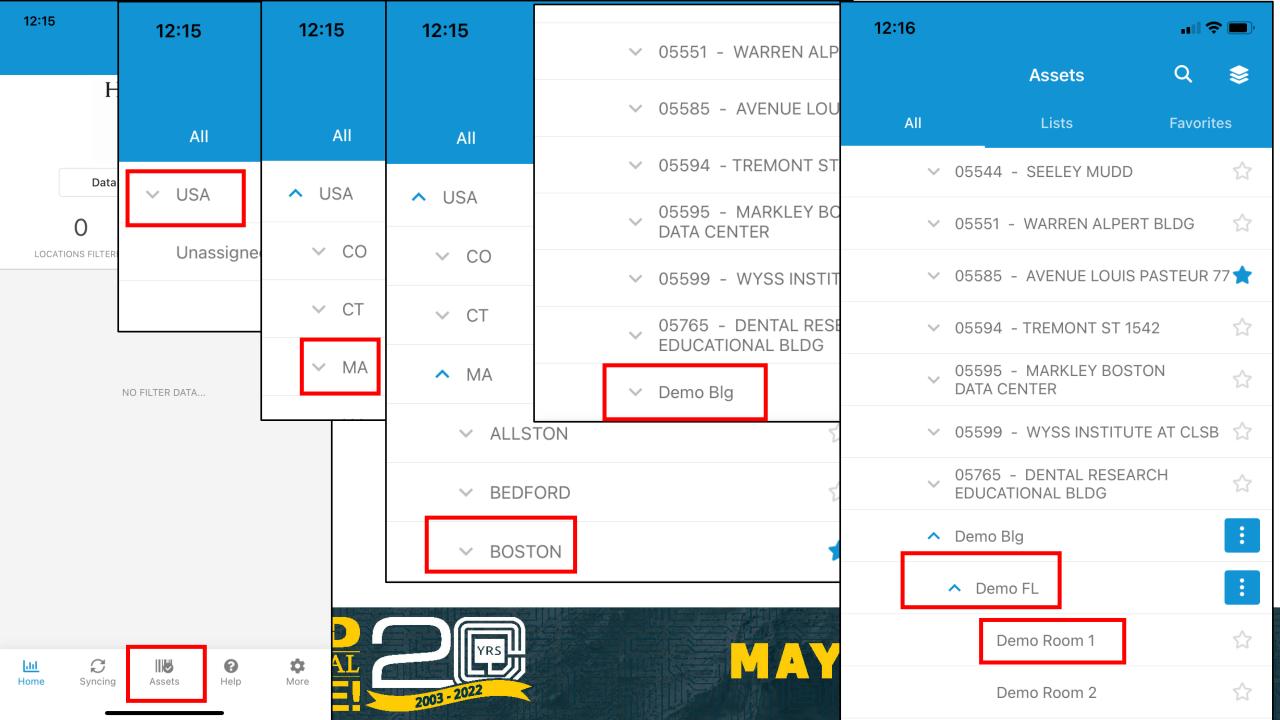
New Equipment +270 Retag old equipment WFH - Mailing tags

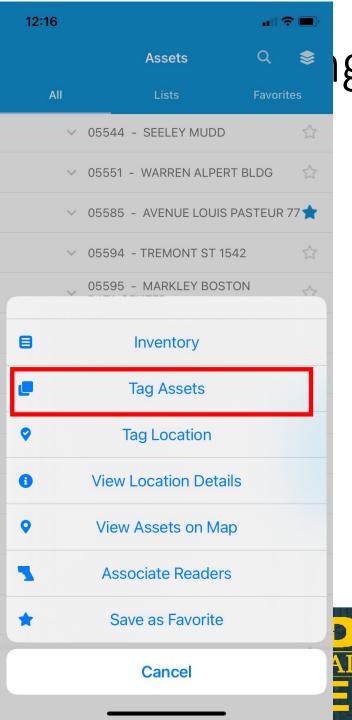
April 2022 Resume retag old equipment Inventory

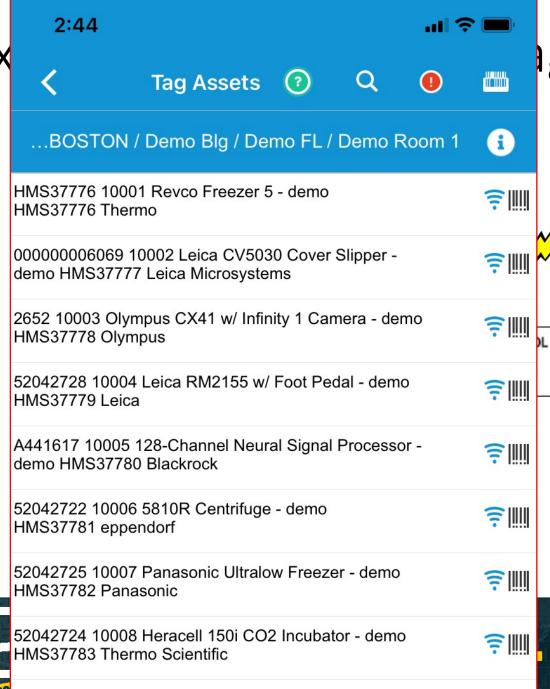






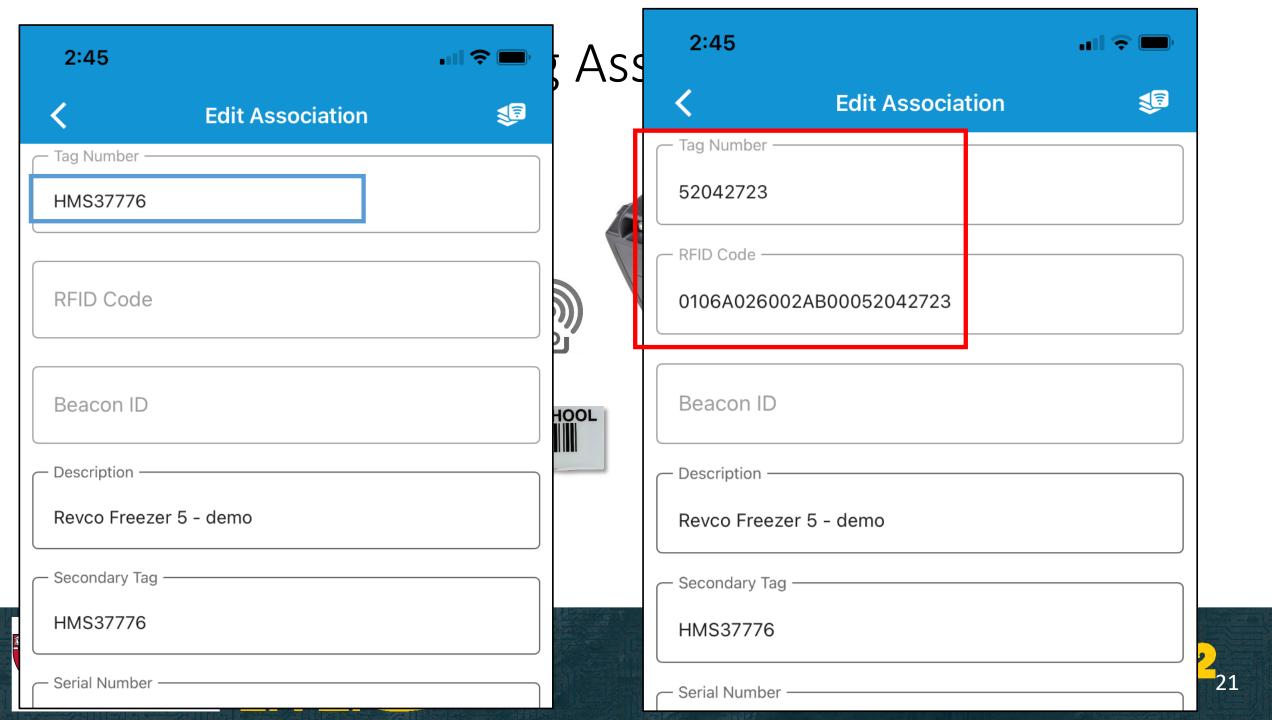


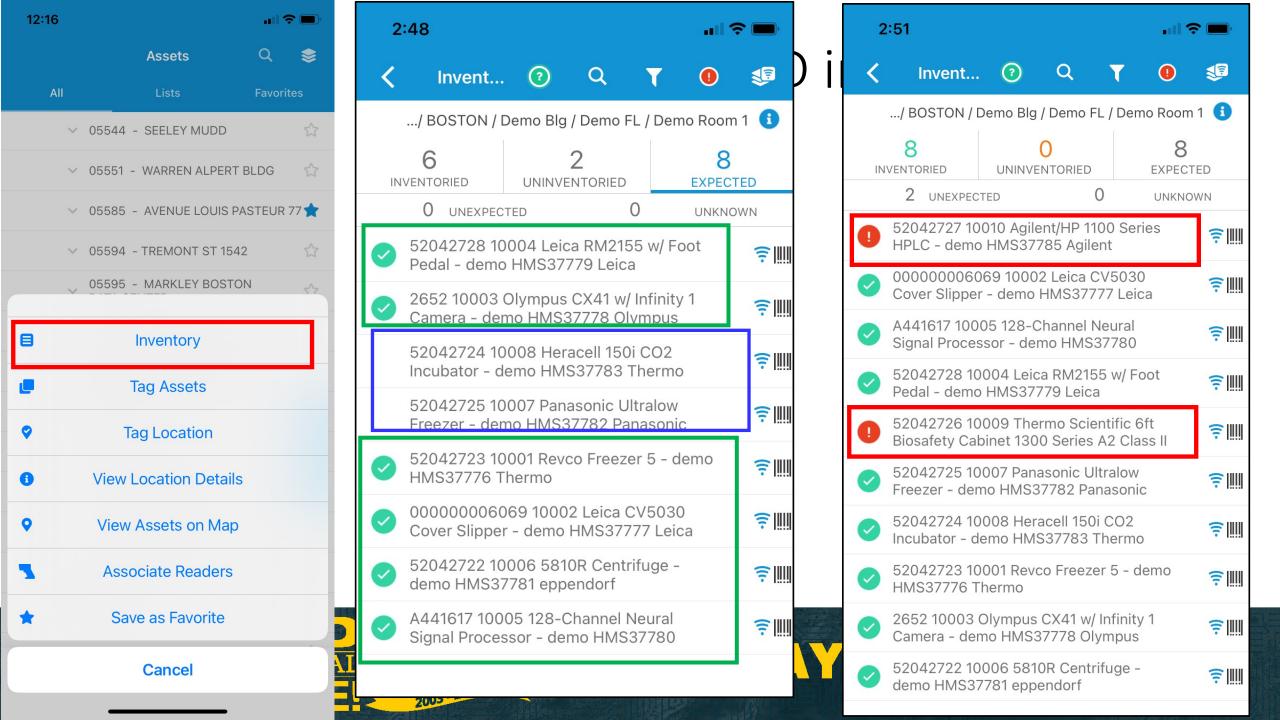






19, 2022







1 UNEXPECTED 0 UNKNOWN

52042726 10009 Thermo Scientific 6ft Biosafety Cabinet 1300 Series A2 Class II

HMS37776D 9991011 Dummy asset to test room addition2 Dummy for testing

52040001 9999 Recipe Right Non-Stick Cookie Pan - demo HMS39061 Wilton

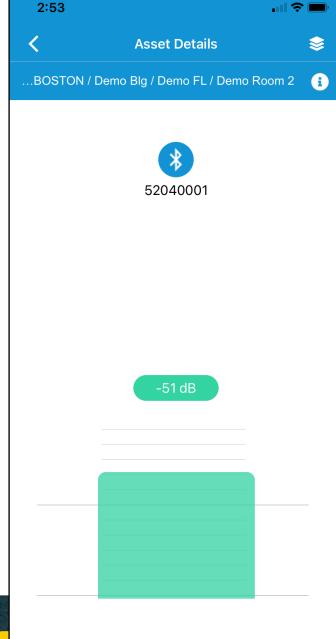
HPLC - demo HMS37785 Agilent
52040002 10000 Recipe Right Non-Stick
Cookie Pan - demo HMS39057 Wilton



?



2:52	••II 奈 ■ •
<	Asset Details
Information	Attachments
Tag Number	52040001
RFID Code	0106A026002AB00052040001
Beacon ID	
Physical Location	Demo Room 2 🚺
Expected Location	Demo Room 2 🚺
Description	Recipe Right Non-Stick Cookie Pan - demo
Asset Number	9999
Secondary Tag	HMS39061
Serial Number	70896 59066
Model Number	33002
Manufacturer	Wilton
Asset Class	Capital Equipment
Date Placed In Service	ce 10/5/2018
Comments	Demo only
Asset Key Org	48112









Return of Investment:

- None less/more
- Improved spot inventory process
 - lab moves & PI transfers
- Improved data quality
 - elimination of clerical errors
- Compliance with PwC CAP
 - modernize our process
- Less interruptions





Jeff DiCiaccio

Director of Strategic Procurement

Harvard Medical School

(Office) 617-432-5333

jeff diciaccio@hms.harvard.edu

https://www.linkedin.com/in/jeffdiciaccio/









