BIFE DINAL OUR NAL

SEPTEMBER 26 - 28, 2021

PHOENIX CONVENTION CENTER | PHOENIX, AZ

RFID JOURNAL LIVE!

Harvard Automates Asset Tracking and Reduces Inventory Time with RFID

Jeff DiCiaccio
Director of Strategic Procurement
Harvard Medical School

Background:

Boston Children's Hospital

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











Background:

- 18 buildings, 2 million sq. ft.
- \$ 753 million operating expenses
- \$ 4 Billion endowment
- \$ 308 million Research grants and contracts (sponsored)



Sponsored Funding Definition:

Sponsored – value and quantity

HU - \$ 177,090,458 & 5,733 = 34%

HMS - \$ 59,106,799 & 1,843 = 42%















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

Harvard Asset Statistics:	Harvard Medical School	Harvard
Number of Assets	4,332	15,418
Original Purchase Price	\$ 149,431,113	\$ 1,177,805,387
# of buildings w/assets	18	160
# of rooms w/assets	960	2,963

- Inventory Every asset, every two years
 - To the building/room

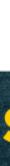


Previous inventory method



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

snould have been disposed of. Opon further

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 (CAP): increase training, move to rolling inventory schedules, and research technology solutions (RFID)





Make life easier – RFID investigation

- Partnered with 3 schools
- 80% of total



2018 Grant application (PAIF) - \$25K





HARVARD

School of Engineering and Applied Sciences





Selection Process:

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



























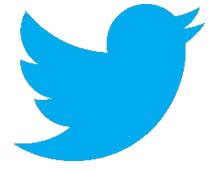








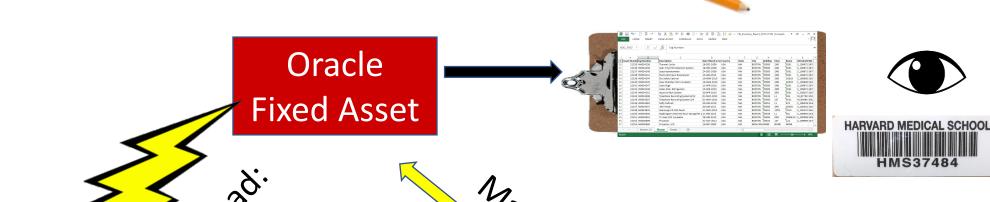


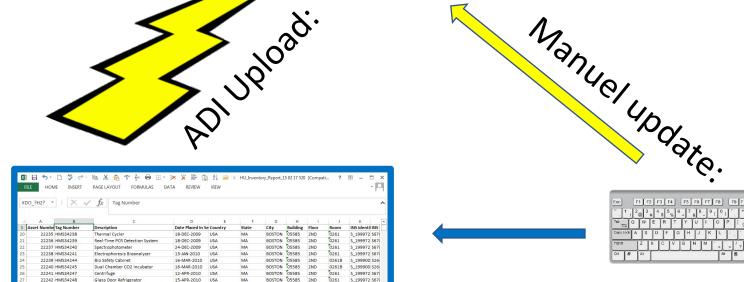






Old Process





M 87759 M19

S_200010 S26-

S 195247 S46 S_196994 S230



Approximately 2 hours to find 50 assets 2 people



22244 HMS34306

22245 HMS34307 22247 HMS34547

22248 HMS34876

22252 HMS36809

Telephone Recording System 8/12

31-OCT-2012

Samsung LCD Flat Panel



RFID Process

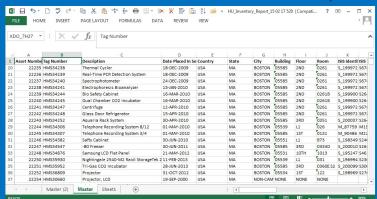


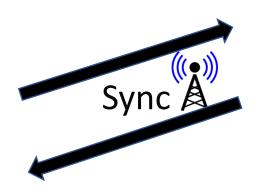
ADI Upload



Radiant Web app

















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

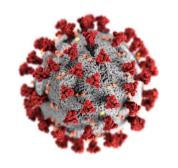


- Departure of Project members
- Covid



Inventory cycle

July 2018 to June 2021



Feds extended

March 11th, 2020, March 13th, 16th, 18th

New Equipment +270

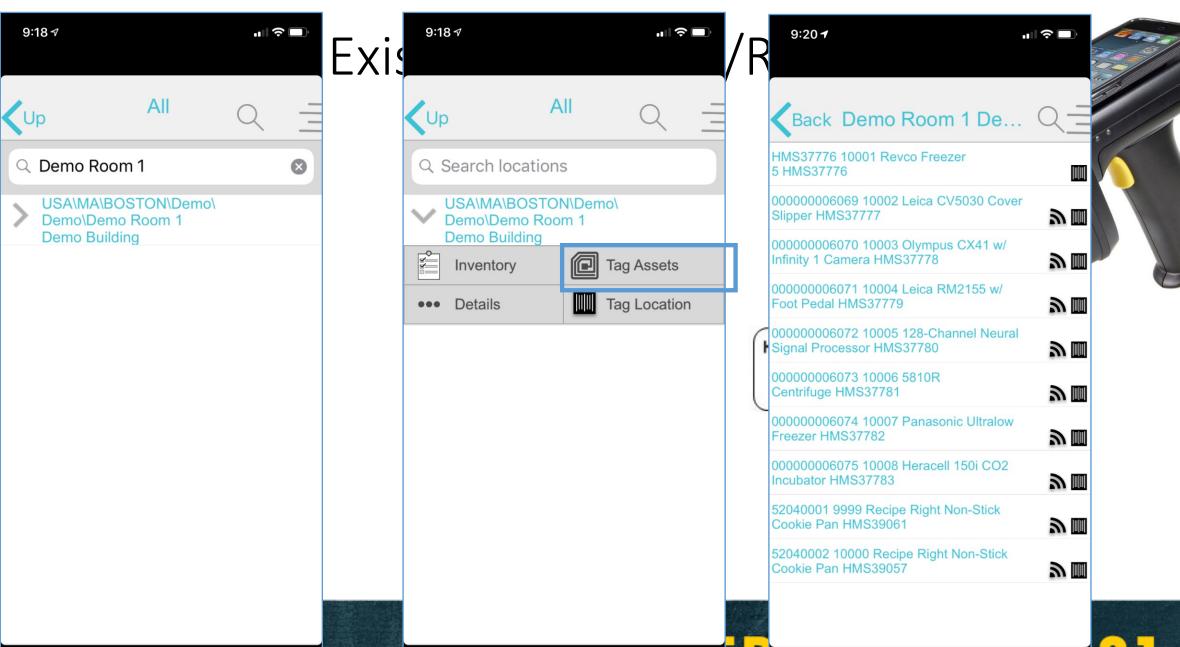
Retag old equipment

WFH - Mailing tags

Lab Inventoried old tags

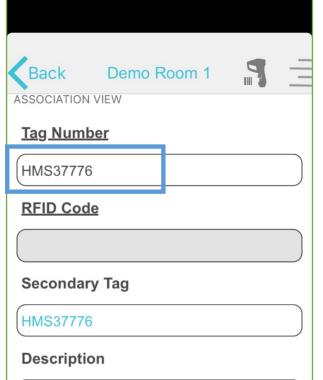








Patagging Existing Assets w/RFID #2007



Revco Freezer 5

Serial Number

Y20027676

9:20 7

Model Number

Save

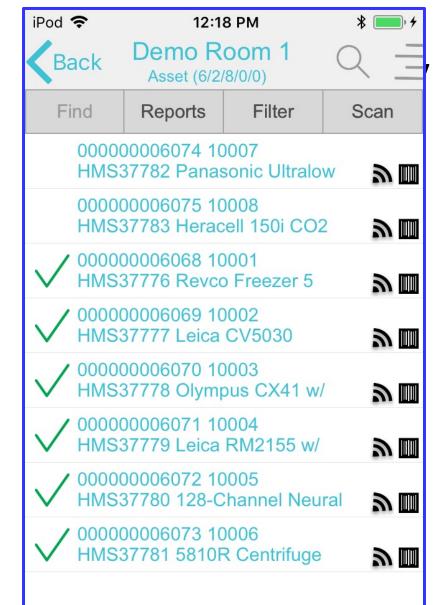


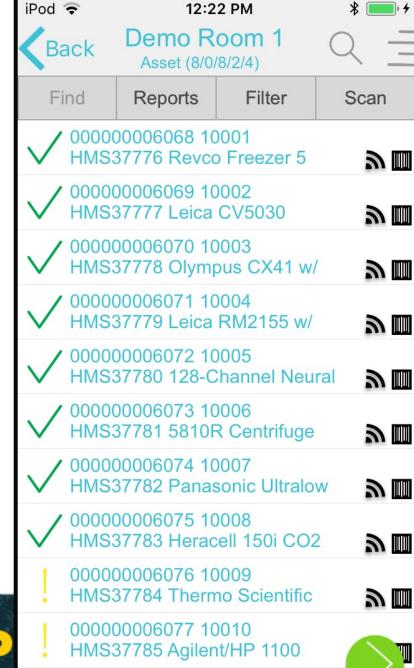






SEPTEMBER 20











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





Spreading the word:

HSPH - 1600 HBS -193 HMS IT - bluetooth

4 colleges





Jeff DiCiaccio

Director of Strategic Procurement

Harvard Medical School

(Office) 617-432-5333

jeff diciaccio@hms.harvard.edu

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





RFID JOURNAL LIVE!

