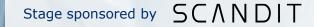


17 - 18 March 2022 | QEII Centre, London

Asset management

#bettercarecostsless





17 - 18 March 2022 | QEII Centre, London

Asset management in action

Richard Price

Senior category manager, University Hospitals Plymouth NHS Trust

#bettercarecostsless



Tracking Hospital Assets using GS1 Standards & RFID











Why is RFID and GS1 important?

- Large trauma and teaching hospital serving the South West Peninsula
- Main building 12 floors with lots of corridors and rooms
- Other buildings and off-site locations
- Circa 100,000 Medical, SDU and IT assets
- Maintaining a schedule for asset service and repair
- Turnaround time to bring equipment back into use
- Replacing Medical equipment costs £100,000+ each year
- Clinical staff spend a lot of time looking for assets
- Issuing/Borrowing of assets that are not returned



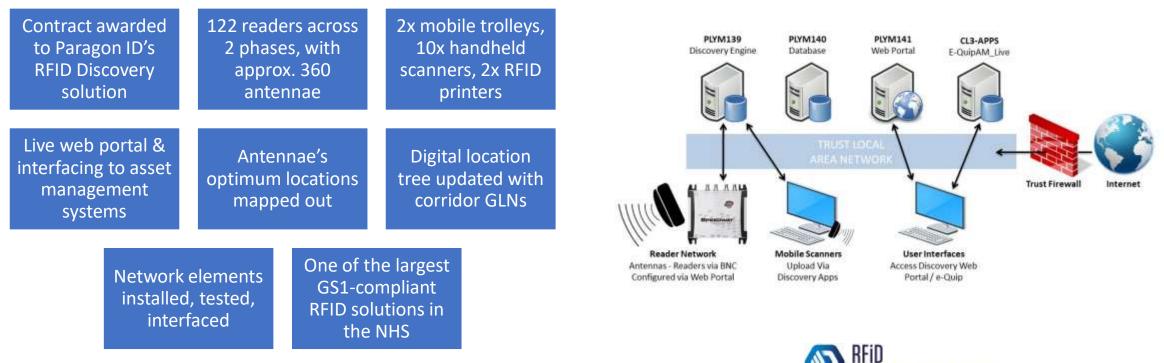


Implementation

Already using GS1 GIAI standard for Medical and SDU assets, but implemented in isolation	Roll-out Trust-wide a new GS1 structure agreed with departmental prefixes	EQ NO:1045450	
Started by re-labelling medical devices	400+ models' label placement optimised for scans	Clinical Engineering 201752 431333	237 University Hospitals Plymouth NHS Trust Clinical Engineering 201752 431333
New process flow / security documents created	Opportunity taken to correct MDAR anomalies		



Implementation







Progress

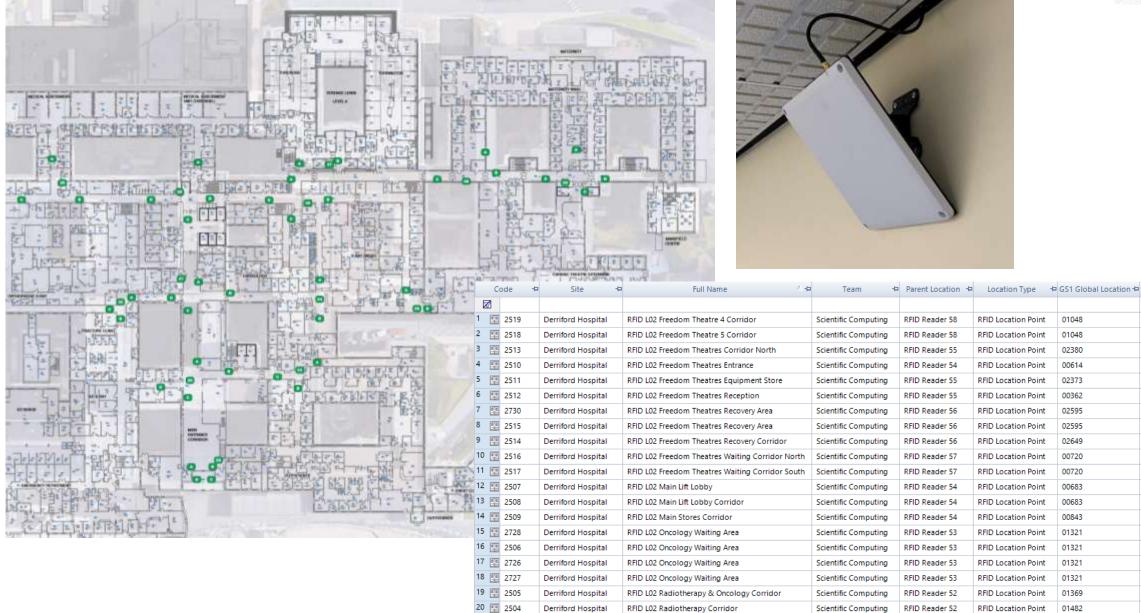
- Web portal is fully up and running
- Training materials created, clinical staff trials being carried out
- 25,000+ medical devices relabelled; SDU and IT re-labelling underway
- 83/122 total readers installed, networked, and reading assets
- 3,500 assets tracked every day
- Phase 2 of reader / antennae installations near to completion

DISCO	VERY	UNIVER			PLYMOUTH NHS TRUS	T		PETERSA Administration	0×
✓ ASSETS	· REPORTS ·	SETTINGS 🛩	ASSET LIS						
			□ +/× -						
D Status 7	Asset TP	Location V	.7	7me + 17	Campley 77	Ŷ	Dener 9.	Assigned Location 🖓	Type 7
	10858221	Chinese Engineering		06100021-1127	Ages VP MC INT SE	-	E Gug Unimes	Chinas Expressing (NEMI) Availing Dobtinden	9
	1056739	RFID L04 Clinical Engineering (RB2)		08/10/2021 13:27	Agile VP MC WII GB	*	E-Gup Unimed	Torrington Cavitac Intensive Care Unit (CCCU)	٩
	1082547	Civical Eigeneering		66/10/2025 13:27	950A06	*	E-Qup Unitivied	Caracal Engineering (MEMS) Awaiting Distribution	٩
Ð	1010415	RHD L54 Clinical Engineering (RE1)		08/10/2021 13:37	Senators Monute International	Ŵ	E-Quip Unitmod	Nan Theatres	9
0 @	1049999	RFiD L64 Clinical Engineering (RE2)		08/10/2021 13:27	Agika VPINC Witt GB	×	E-Qup Uninkes	Bracken Wand	9
0	1053411	RFID LSS Cancel Engineering (RF3)	0	00/10/2021 13:27	018130 Injectomet NC Agilar	ŵ	E-Qup Unimed	Permae ICU/IDU Mard	Q
Ω	1043835	MPID LO4 Clinical Engineering (RE2)		06/10/2021 13:27	MEC10	*	E-Qup Unitmat	eleavority Viard	9
0	1061000	AFID LOI Medicar Equipment Library (MEL) (E)		08/10/2025 13:27	Renatiys Touch	ŵ	E-Qup Unitwet	Medical Equipment Library (MEL)	9
D	1063627	Cirical Engineering		08/10/2007 13:37	Agna SPINC WR G8	¥	E-Guy Unitmod	Christal Engineering (MEMS) Awating Distribution	9
	1056392	RFID L04 Tweatree Changing Roome Combo		08/10/2021 13:27	PCA Blow Switch	Ŵ	E-Gup Unimus	Acute Part Team Centre	9
0	037665	AFID L06 6DU 868 Divty (921 C)		06/10/2025 13:27	MDEO CYSTO CYF-V2 (FE156 17) (SES ESC 3 - HOOK 5 'R'Y EWD- GREEN		HAEMATURIA CLINIC	Phymouth Stelle Services	M
0	053408	RFID L05 SDU Locker Corretor (R21 A)		06/10/2021 13:27	WDEO-CYSTO CYF-VH 8# 2825939 (FE156 04) (SE8 ESC 2 - HOOK 5 1R) EVID-GREEN		HAENIATURIA CLINIC	Phymouth Stellie Services	Å
Ω.	1052545	Carical Engineering		06102021 1327	96CAC28	À	E-Gup Universe	Chincal Engineering (MEMS) Awarting Distribution	٩
D	058136	WHD L65 SDU Departh (R25.A)		08/10/2021 13:27	WDEO-CYSTO CYF-VH (FE158 08) (SEM ESC 2 HOOK 6 19) EWD- BROWN		TRAEMATURIA CLINIC	Phymouth Stenio Senaces	M

All progressed during COVID

University Hospitals Plymouth NHS Trust

Area





Operational Benefits





Clinical Staff

See live availability of models in the equipment library

Locate desired or lost devices from neighbouring wards

Reduces time searching for devices

Technical Staff / Trust-wide

Locate devices due maintenance, upholding device compliance and reliability/safety

Gain awareness of devices in demand, high turnover, frequently lost etc.

Automated tracking of expensive assets / those on loan to the trust

Operational Benefits





- **3,500** medical devices tracked every day (15% of medical equipment database)
- **£50k** spent on an external company to audit entire hospital, taking a couple of weeks to complete. RFID system allows the Trust to audit the same quantity of medical devices in a single day.
- £70k a year (serviced on ti
- £620k* each equipment le hour
- In addition, ir lost assets ea £100k in repl

Releasing time to care and increasing patient

safety.....

- Trust-wide and external revalidation showed circa **£22m** assets on the Asset Management system have not been seen on the RFID system for 3+ years**.
- By ensuring scalability in our infrastructure, benefits can expand to other departments and assets, not just medical devices.
- The Trust has entered the 'best global healthcare award' nomination for the implementation of RFID asset management

*Patient stay costs est. £400 per 24 hours = £17 per hour per patient. On average there are 100 discharges a day (£17 per hour x 100 patients x 365 days)

** a full-time role has been agreed to investigate



Operational Benefits



Clinical Staff

Technical Staff / Trust-wide





'This is definitely a really useful tool – we use it to track wheelchairs as many get abandoned around the site and are then not available for use at entrances'.

'The system has been hugely beneficial for us by tracking devices as they come and go, enabling us to see whether they are actively in use. Even more crucially we can now see at a glance what is in stock, saving clinical staff a wasted trip to the MEL.'



Our Future Roadmap



- Infrastructure in place for more services/uses: e.g. Estates, Stores, Patients, Staff
- RFID Readers included in expansion/refurbishment costs
- Views to expand to external buildings, then external sites
- Live maps on web portal to aid visual guidance
- Potential to enable other projects e.g. visitor guidance apps, automated patient check-ins, etc.

