

# GS1 UK Healthcare Conference

**Nick Thomas** 

Deputy Chief Executive

Plymouth Hospitals NHS trust



### **Achieved S4S Accreditation 2018**





### What's been achieved?

The 1<sup>st</sup> two years ...









- £1m+ savings
- Potential for further £1m





### The 1<sup>st</sup> two years .....

**7,286** procedures captured



**6,215** patients



**13,971** products (implants) assigned to a unique patient





25,932 products tracked by lot & expiry date



**193** discarded products

£4.5m cost of items used



**2,324** orders raised from electronic consumption.

77 work days saved (15min average manual order)



Product recall before **19 days 10 hrs**.

Now 1hr 45mins, less than 1 min to search and identify patients



SCAN SAFETY

#### **The New Ambitions**



- Avoid Never Events
- End-to-end traceability of medical devices and care events
- Using GS1 standards and RFID to track and trace assets / staff

"Every single BEEP tells us a little, millions of BEEPS tells us a lot!" Nick Thomas, Plymouth Hospitals #scan4safety #GS1HCconf





#### NHSI April – December 2018

- 391 never events
- 54 (14%) implants/wrong prosthesis
- 21 (39%) related to hip surgery



A new national system of scanning prosthetic implants before they are put into patients should be created by the government, the Healthcare Safety Investigation Branch has said.

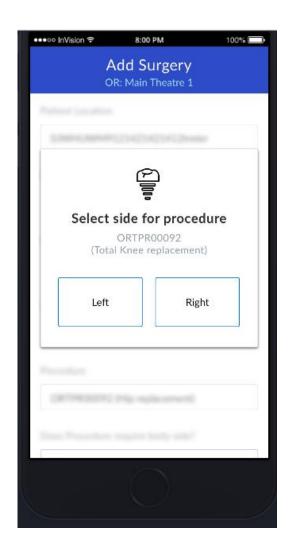
In its first national investigation report since being set up in April last year, HSIB said such a system if used in operating theatres could prevent wrong prostheses being used.

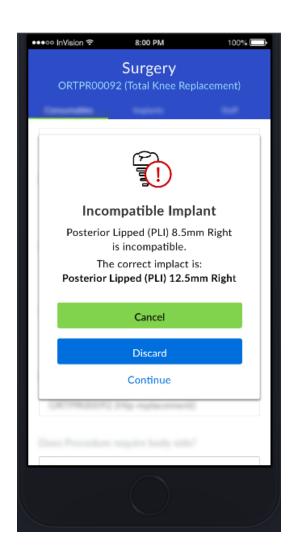
It made the recommendation after an incident where a 62-year-old man had two incompatible prostheses implanted during a total hip replacement. The mistake was only picked up days after the surgery, when information was entered into the National Joint Registry database.

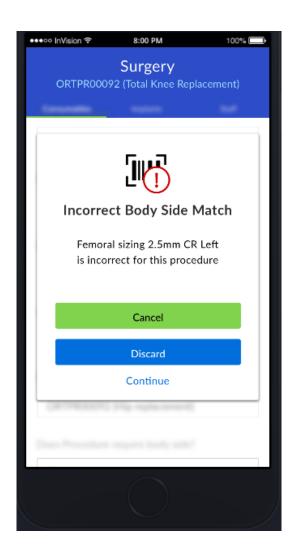
HSIB said there were on average 52 wrong implant or prosthesis never events a year with the latest data showing 65 in the year to March 2018, which it said suggested "a national, systemic issue".

It has made a number of safety recommendations aimed at NHS Improvement, the Department of Health and Social Care and other national bodies.











Genesis Prototype – April 19

CME – July/Aug 19 Go-Live Orthopaedics July/Aug 19

## **EPCIS (Electronic Product Code Information Services)**



#### **GS1** and the barcode – a brief history

Today, GS1 barcodes are scanned more often than searches are performed on Google

5 billion + per day



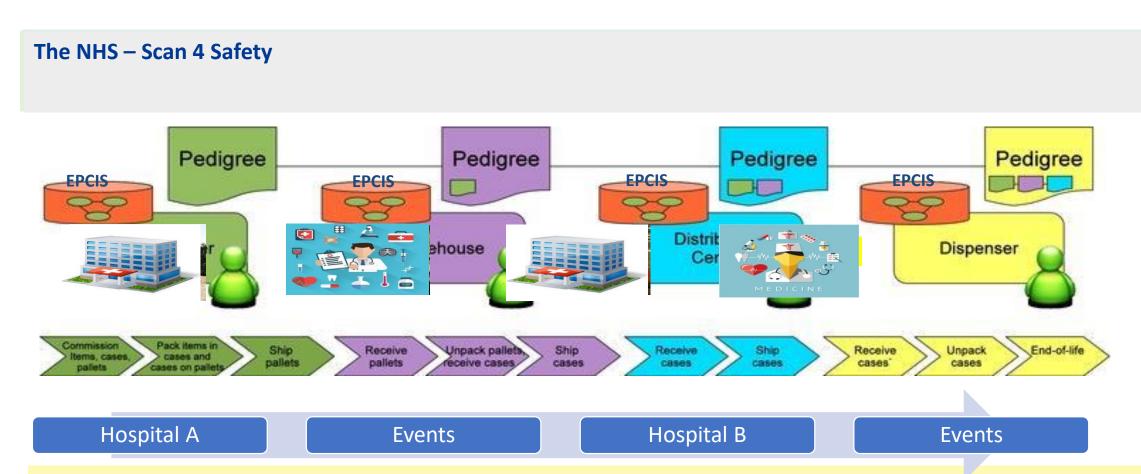
#### Why EPCIS

- > Tracking and sharing events
- > Industry and Application agnostic
- Supplement to NOT a replacement for existing systems.

Today EPCIS used by companies across the world to track everything from the origin and freshness of food to the safety of pharmaceuticals

#### **EPCIS (Electronic Product Code Information Services)**





"The NHS's top priority is Patient Safety".

## **EPCIS (Electronic Product Code Information Services)**

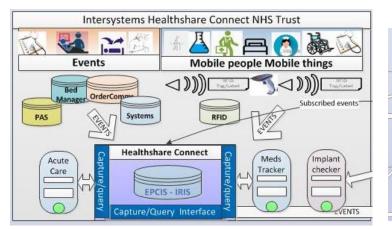
University Hospitals
Plymouth

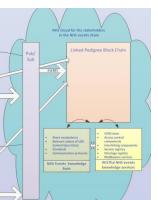
- Supports food safety, drug safety, environmental safety, patient safety
- Efficiency, easy to track where products are or within whom – product recall
- ➤ Use case MRI, 2 working days per week

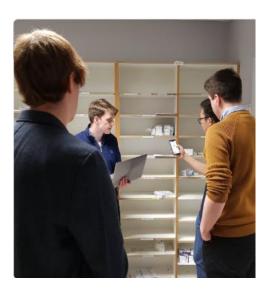
#### But there's more.....



 An EPCIS app is usable against any EPCIS compliant system.





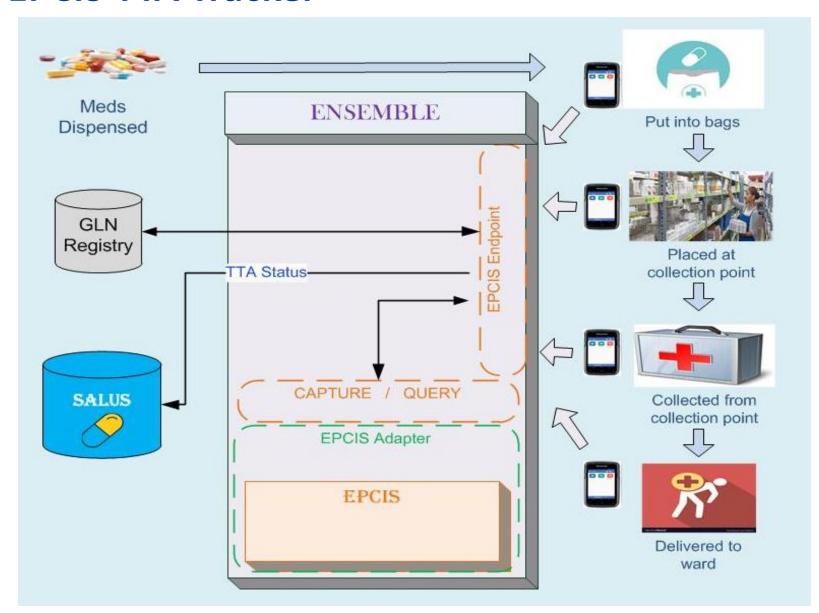




#### **EPCIS TTA Tracker**



**NHS Trust** 





### End-to-end traceability of medical devices and care events



Prototype code from UCL – End April 19

Finalise EPCIS APIs

Dry run /Trial Changes to
Salus
Status and
Discharge
Summary

**Go-Live** 

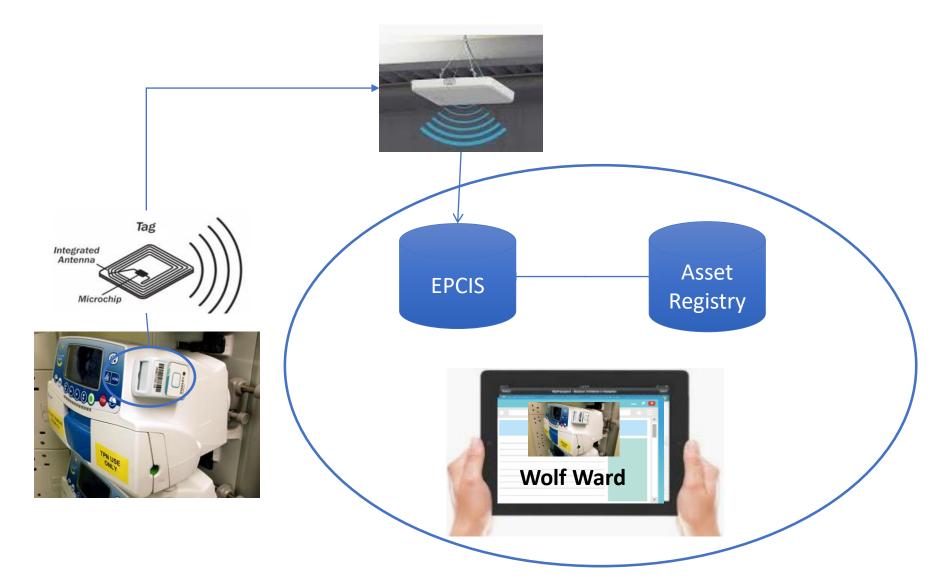
Share App with other Trusts



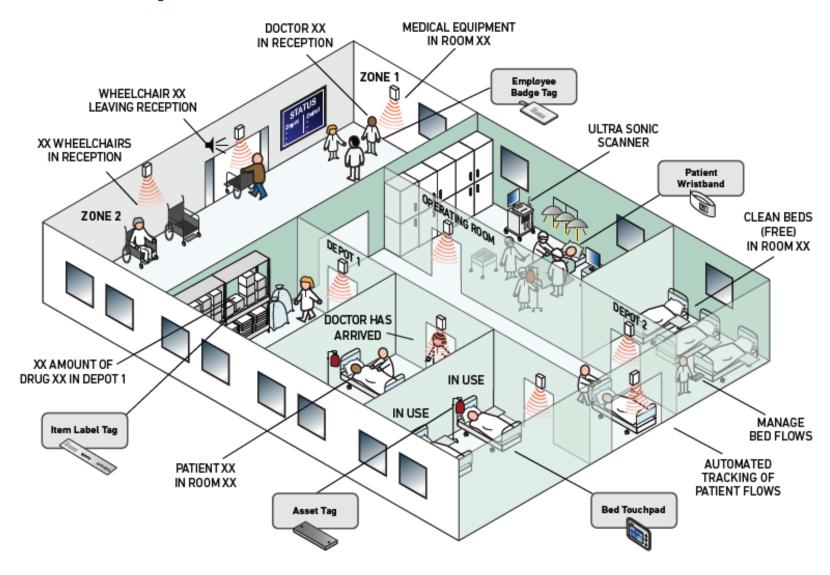
- 30,000 Portable/Mobile medical equipment
- 10,000 Static medical devices
- 15,000 Surgical Instrument Trays
- 7,000 Staff

£100m est. value related to medical equipment











Complete Tender Process

April 19

Finalise Business Case

**May 19** 

Agree Funding

June 19

Implement

July 19 ->

**Go-Live** 

1<sup>st</sup> area

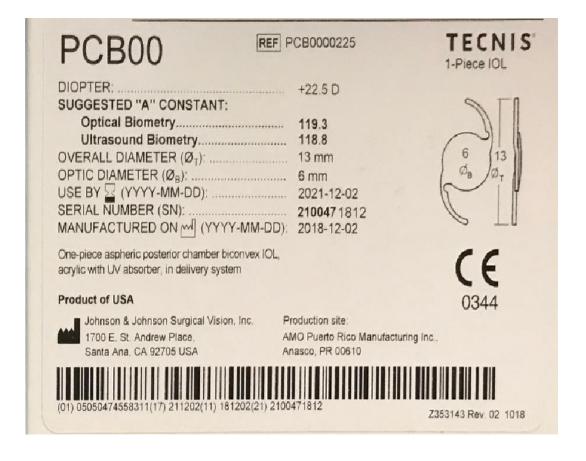
**Dec 19** 











#### How many suppliers have GTIN's 2018/19?



**81,587 (81,575)** items in Trust catalogue from **855 (811)** suppliers.

23,841 **(23,907)** items have valid GTIN, 29.2 % **(29.3)** (From 71 suppliers, 8% of the suppliers have GTIN)

One supplier through the GDSN, Smith and Nephew

Suppliers are not attributing barcodes to all units of measure, which means we cannot scan the product and link it to a patient.







### **Questions?**