

#### **GS1** Switzerland Excellence Days

**Hospital Implementation** 

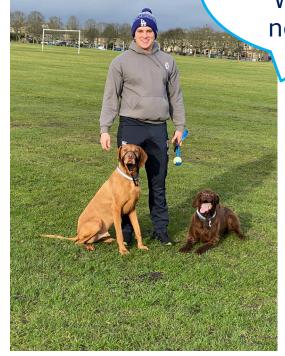
Claire Clarke Director of Healthcare Engagement 8th June



## What did Harry want?



What value do they add?
Why do we need them?





## So, he got what he asked for









## The need for globally unique numbers



	4	
Manufacturer	Catalog #	Description
Medtronic	305905	Mosaic ® 305 Porcine Heart Valve
BD	305905	3BD SafetyGlide ™ Syringe
]&]	305905	Protectiv ® IV Catheter System
1 & 1	303905	Protectiv ® IV Catheter System
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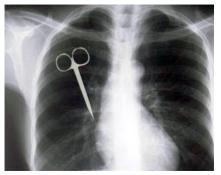


### Patient Safety



- If 99.9% were good enough...
  - Major plane crash every 3 days
  - 12 babies given to wrong parents every day
  - 37,000 ATM errors every hour









Institute for Healthcare Improvement (data relates to US population)



#### GS1 – used across the world





2 million

**150** countries

6 billion

115 MOs

Approx. 2 million companies worldwide use GS1 standards

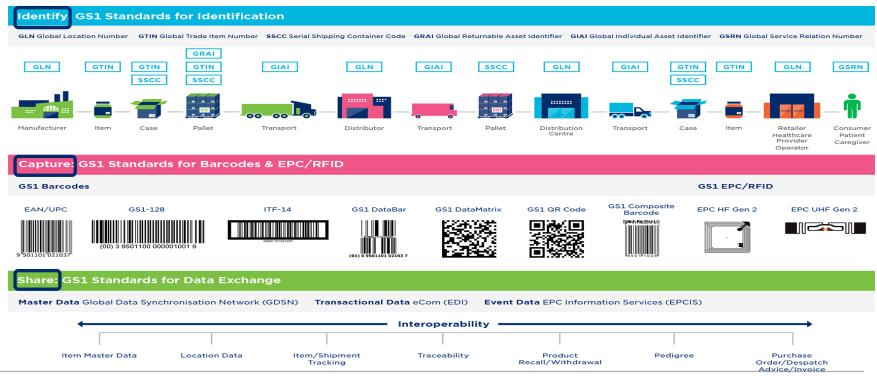
25 industries served across 150 countries

Barcodes scanned more than 6 billion times per day globally 115 Member Organisations around the world



#### Global system of standards that support visibility







# GS1 – global standards benefits and value in healthcare









Interoperability



Transparency & Visibility



open community bringing together all related healthcare stakeholders to lead the successful development and implementation of global GS1 standards enhancing patient safety, operation and supply chain efficiencies.

GS1 Healthcare envisions a future in which the healthcare sector achieves harmonised implementation of global standards in business and clinical processes enabling interoperability, optimal quality and efficiency of healthcare delivery to benefit patients.



#### Our vision



GS1 Healthcare envisions a future in which the healthcare sector achieves **harmonised implementation** of **global standards** in **business and clinical processes** enabling **interoperability**, optimal **quality** and **efficiency** of healthcare delivery to **benefit patients**.



patient safety



supply chain security & efficiency



traceability

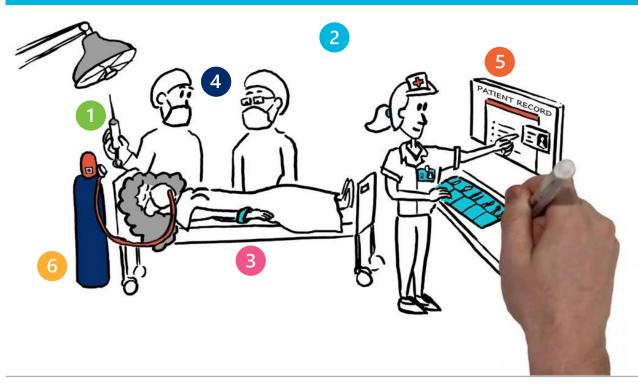


product data



## Identification keys in the Operating Room





- Global Trade Item Number (GTIN)
- Global Location Number (GLN)
- Global Service Relation Number (GSRN)
- 4 Global Service Relation Number (GSRN)
- Service Relation
  Instance Number (SRIN)
- Global Individual Asset
  Identification Number (GIAI)



# GS1 Healthcare: an expanding, committed community of globally engaged stakeholders...









## Leading hospitals implement GS1





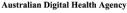


































































































Universiteit





## Working with global organisations...









European Committee for Standardization



Digital Imaging and Communications in Medicine



HL7

Health Level 7 International



Integrating the Healthcare Enterprise



International Organisation for Standardisation



Alliance to advance personal connected health



Leading healthcare terminology, worldwide

#### **©**Joint Initiative Council











International Inte Society for Quality in Healthcare Comn Blood



International
Council for
Commonality in
Blood Banking
Automation



European Association of Hospital Pharmacists



European
Federation of
Pharmaceutical
Industries and
Associations











Logical Observation Identifiers Names and Codes





#### Healthcare Provider Implementation





# SCAN4SAFETY



## The Scan4Safety journey so far



Lord Carter's Interim report in 2015 finds that the "introduction of GS1 standards will allow every NHS hospital in England to save on average up to £3 million each year while improving patient care."

In September 2017, Derby Teaching Hospitals **NHS Foundation Trust** becomes the **first Trust** to complete all four phases of Scan4Safety

In 2014, the Department of Health mandated the use of GS1 standards within the **eProcurement** strategy

In January 2016, six NHS Trusts are being fullyfunded by the Department of Health to become demonstrator sites of excellence

The Leeds Teaching Hospitals WHS

Derby Teaching Hospitals **NHS** 

**NHS Foundation Trust** 

Royal Cornwall Hospitals **NHS Trust** 

North Tees and Hartlepool **NHS Foundation Trust** 

Plymouth Hospitals WHS **NHS Trust** 

**NHS Foundation Trust** 

Salisbury NHS

Every healthcare provider and every supplier of every product and service into the NHS must comply with GS1 standards by 2020

NHS Provider and Supplier contracts will reflect this



#### Proven benefits



#### Derby Teaching Hospitals NHS

**NHS Foundation Trust** 

- £2.9m annual saving in theatres
- £360k savings in inventory reduction
- Traceability of implantable products to patient record
- Reduction in clinical time spent on non-clinical activities
- £1m p.a. in improved clinical coding
- Ability to analyse clinical variation in practice

#### Royal Cornwall Hospitals NHS Trust



- Over £1m efficiencies in ward stock
- Simplified ward store rooms by reducing unique items by 22%
- Released clinical time to patient care by shifting stock management to materials management teams
- Reduced ordering of medical consumables by 21% for a medical ward

The Leeds Teaching Hospitals

Ophthalmology Recall Test: previously 8.33hrs of nursing time (£173), now 35 mins of nursing time (£9)

Salisbury **NHS** 

NHS Foundation Trust

Over £1m saved so far with nearly £800,000 as a recurring saving

## Department of Health business case predicts £1bn saving for the NHS over the next 7 years



### Benefits Delivered – Derby Hospital



- £1.2m annual saving in consumption reduction in theatres
- £360k savings identified in inventory reduction
- Traceability of implantable products by batch/lot number to patient record
- Auditable evidence resolution of SUI
- Product standardization and switching opportunities
- Reduction in clinical time spent on non-clinical activities
- £1m pa in improved clinical coding
- Ability to analyse clinical variation in practice
- Improved visibility of inventory
- Automated ordering and invoicing through
- PEPPOL access point





## Leeds Teaching Hospitals Trust



## **About Leeds Teaching Hospitals NHS Trust**





Over 263,000 A&E Attendances

Over 117,000 Inpatients

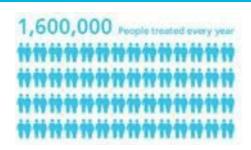
Over 108,000 Day Cases

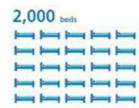
9,844 Babies born



Over 17,000 staff







Turnover

£1.17 billon



#### Vision

#### We want the ability to track:

- Our patients
- The products
- The place
- Our involved staff
- The procedure (OPCS)
- The surgical trays & instruments





#### Patient Safety

- Making sure you have the Right Patient
- Making sure you (always) know What Product was used with Which Patient, When
- Making sure you have What You Need, When You Need it and Where You Need it
- Real time tracking of patients and bed state management 24/7
- Product recall
- Preventing the use of expired stock





## **Board Level Support**













## Patient Identification (GSRN)

- Wristbands Printers in situ across all 7 hospitals in 140 clinical areas
- 163 wristband printers rolled out
- 100% of all inpatients have Scan4Safety wristband
- 100% of A&E wristbands are GS1 compliant

The Trust can only generate GS1 compliant wristbands regardless of patient age

or admission method





#### Global Location Numbers (GLNs)

- To ensure supplies can be traced & delivered to any area we have assigned:
   24,303 GLNs to physical locations in the Trust
   1,346 functional GLNs to wards and departments
- GLNs are being used in Pan-European Public Procurement Online (PEPPOL) transactions
- Identified how to use a 2D data matrix to define bed spaces using GLN Extensions





#### **Global Location Numbers**



First of the demonstrator sites to label down to bed space level and start unlocking the potential

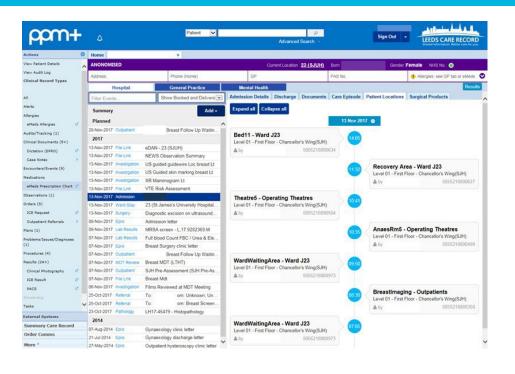






#### Global Location Numbers







## Product Recall (GTIN's)

"Out of date products will become a thing of the past"

- Scanning patient wristband to associate the right product in the right place
- Reducing error, including never events
- Safe, appropriate stock levels
- Expiry date reporting / alerts
- Patient level costings in keys areas, informing clinical decisions
- Improved product recall processes, automatically tracking products to patients





## Ophthalmology Product Recall Test







Nursing Time (Old System)
Minimum of £173 and **8.33 hours** 



Inventory Time (New System)

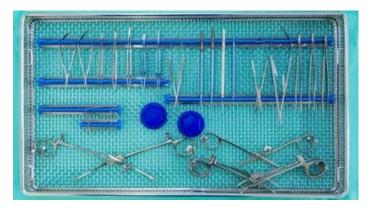
Maximum of £9 and 35 minutes





## Theatre Tray Rationalisation



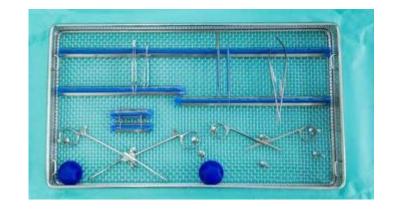


Theatre Tray Rationalisation Programme removed

£94,064.49

per annum of sterilisation costs.

Savings	FYE 16/17	PYE 17/18	Total
Recurrent	£87,037.95	£7,026.54	£94,064.49
One off	£0	£39,500	£39,500





#### Initial Analysis – Cost vs Tariff

#### **High volume non complex HRG**

(EA54Z Percutaneous Standard Ablation)

- Assumed mean procedure time of 79 mins for costings
- Cost £1,821
- Income £1,820
- Loss 0.84p per patient

Actual Procedure Time (mean):133 minutes Actual loss £808 per patient

FYE: circa £153,300



#### Benefits realised PCI Procedures

#### 180 PCI Procedures September 2016 – August 2017



Process	Mean Time Taken	Mean Time Released	Annual Effect of time Released
Computer Scanning of Products	<b>6</b> min <b>23</b> sec		
Scan4Safety Handheld	<b>1</b> min <b>53</b> sec	<b>4</b> min <b>30</b> sec	42 Days

Monetary Equivalent at midpoint of Band 5 = £4,095







Area	Benefit
Product Recall Staff Time	£84,411
Inventory Reduction	£1,781,634
Returned Stock	£159,082
Reduced Waste and Obsolescence	£357,356
Tray Rationalisation	£133,564
TOTAL	£2,516,047





## The real reason



#### Never Events - Where we can help...



April 21 – March22 - 407

April 21 – July 21 – 145 (144)

• Of the 2021/22 events:

Wrong site surgery

Retained foreign objects post procedure

Wrong implant / prosthesis

Medication error (has to cause harm to be recorded)

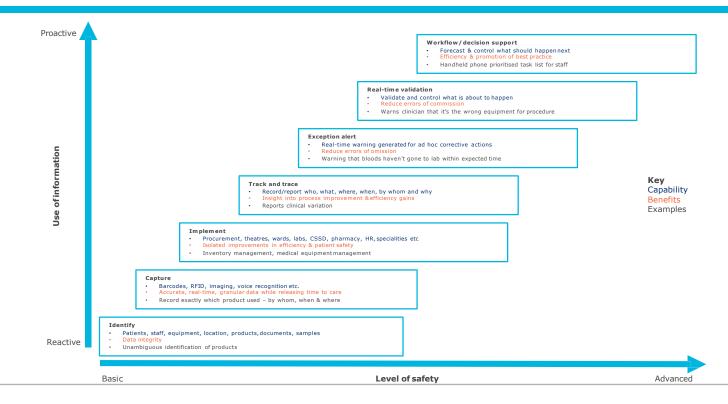
**77%** 

11%



## Insight from all the beeps...







## Scan4safety Report





#### **Right Patient**

Setting standards to make sure we always have the right patient and know what product was used with which patient, when.



#### **Right Product**

Setting standards to make sure our staff have what they need, when they need it.



#### **Right Place**

Setting standards to make sure that patients and products are in the right place.



#### **Right Process**

Setting standards and implementing common ways of working to deliver better and more easily repeatable patient care.

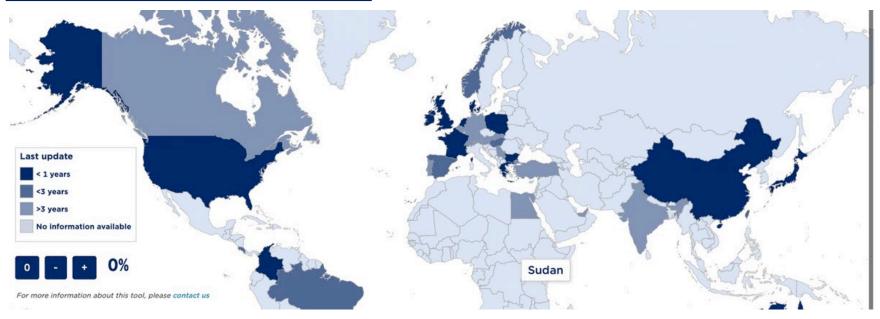
## Every time!



#### **Healthcare Providers Database**



#### **Healthcare Providers webinars**





### 37<sup>th</sup> GS1 Healthcare Conference, Hybrid





Sharing our purpose to lead development & implementation of GS1 Standards to enhance patient safety, operational & supply chain efficiencies.

# Safer, more efficient care starts with a simple scan – Building on strong foundations

- November 15-17, 2022 at the Pullman Bercy, Paris
- Our biggest annual event solely dedicated to the healthcare community
- Co-hosted with GS1 France
- A unique opportunity to learn and meet with worldwide experts
- Designed to provide exciting and highly relevant content to in-person and online audiences, with interactivity and networking for all



## Questions?



