



Plymouth Hospitals NHS Trust

Richard Price - Scan4Safety Programme Manager
Plymouth Hospitals NHS Trust
April 2017



Welcome and thank you for attending!



- Welcome to our April 2017 webinar. Thank you to our guest speaker – Richard Price, Scan4Safety Programme Manager of Plymouth Hospitals NHS Trust (Hospital) in Devon, England
- Some housekeeping for today:
 - All attendees will be on mute
 - If you have questions during the presentation, please type them into the questions area and these will be monitored then answered at the end of the call
- After the webinar:
 - Within a week, the recording will be posted to:
http://www.gs1.org/healthcare/hpac_webinars
 - All previous webinars are also posted to this location, so please feel free to use this resource and share the link

The GS1 Healthcare Provider Advisory Council (HPAC)



Thought leaders and adopters of GS1 Healthcare Standards from the global clinical provider environment. Their final goal is to improve patient safety, cost efficiency and staff productivity through implementation of GS1 standards.

**A forum for sharing
and discussion**

**Identification of
projects and case
studies**

**A source of expertise
and advice**

- About the practical realities of implementation of GS1 Standards in the care giving environment in regards to the impact on clinical care and patient interaction
- That support the adoption of GS1 Standards in healthcare providers and retail pharmacies
- For publication, presentation and sharing
- To those involved in GS1 standards development, the wider Healthcare stakeholder community and senior executives/decision-makers to gain their buy-in and support for implementation of GS1 Standards



HPAC Activities



Webinars

- Monthly webinars open to all stakeholders interested in learning about GS1 standards implementation in the care giving environment.
- http://www.gs1.org/healthcare/hpac_webinars

Awards

- Twice per year
- Provider Best Case Study Award
- Provider Recognition Award
- The prize is travel / accommodation to attend the next GS1 Healthcare conference
- <http://www.gs1.org/healthcare/hpac>

GS1 Healthcare also holds two global conferences per year. The next conference will be in Chicago from October 17-19, 2017, with significant Healthcare Provider participation on the agenda.

Presenting today – Richard Price



Who am I?

- Scan4Safety Programme Manager
- Procurement & Commercial Professional
- 15 years' experience in public & private sectors
- At Plymouth for 3 years
- MCIPS & MSP qualified

Agenda



- Strategic commitment
- Programme structure
- Department of Health vision
- Department of Health requirements
 - Core enablers
 - Use cases
- Driving value
- What's next?
- Testimonials

Strategic Commitment



SCAN4SAFETY

At the Beginning ...

- NHS eProcurement Strategy (2014)
- Trust vision
 - Be highly rated for the care we provide
 - Collaborate with partners in the region
 - Be financially sustainable
 - Be a preferred employer
- Commitment - Charter
- Current state assessment
- Scope
- Develop high-level plan

Ann James
Ann James
Chief Executive



Nick Thomas
Nick Thomas
Deputy Chief Executive

Dr Phil Hughes
Dr Phil Hughes
Medical Director



We, the board of Plymouth Hospitals NHS Trust approved the outline business case at the board meeting on 27th November 2015 and fully support our application to become a Scan4Safety demonstrator site.



Lee Budge
Lee Budge
Director of Corporate Business

Greg Dix
Greg Dix
Director of Nursing



During the development of the OBC, the Board and Executive team have been integrally involved in the scope and ambitious potential of GS1 and PEPPOL standards as a key foundation for the hospital's future service and financial sustainability.



Neil Kemsley
Neil Kemsley
Director of Finance

Kevin Baber
Kevin Baber
Chief Operating Officer



Steven Keith
Steven Keith
Director of People

Prof Terence Lewis
Prof Terence Lewis
Non-Executive Director



Plymouth Hospitals NHS Trust is wholly committed to safety innovation as the catalyst for improvement and sustainability with patients unequivocally at the very centre of all our decisions. We will drive its success and willingly share the learning and benefits and will fully embrace the opportunity to be a pioneer for Scan4Safety.



Henry Warren
Henry Warren
Non-Executive Director

Dr Michael Williams
Dr Michael Williams
Non-Executive Director



Mike Leece OBE
Mike Leece OBE
Non-Executive Director

Richard Crompton
Richard Crompton
Chairman

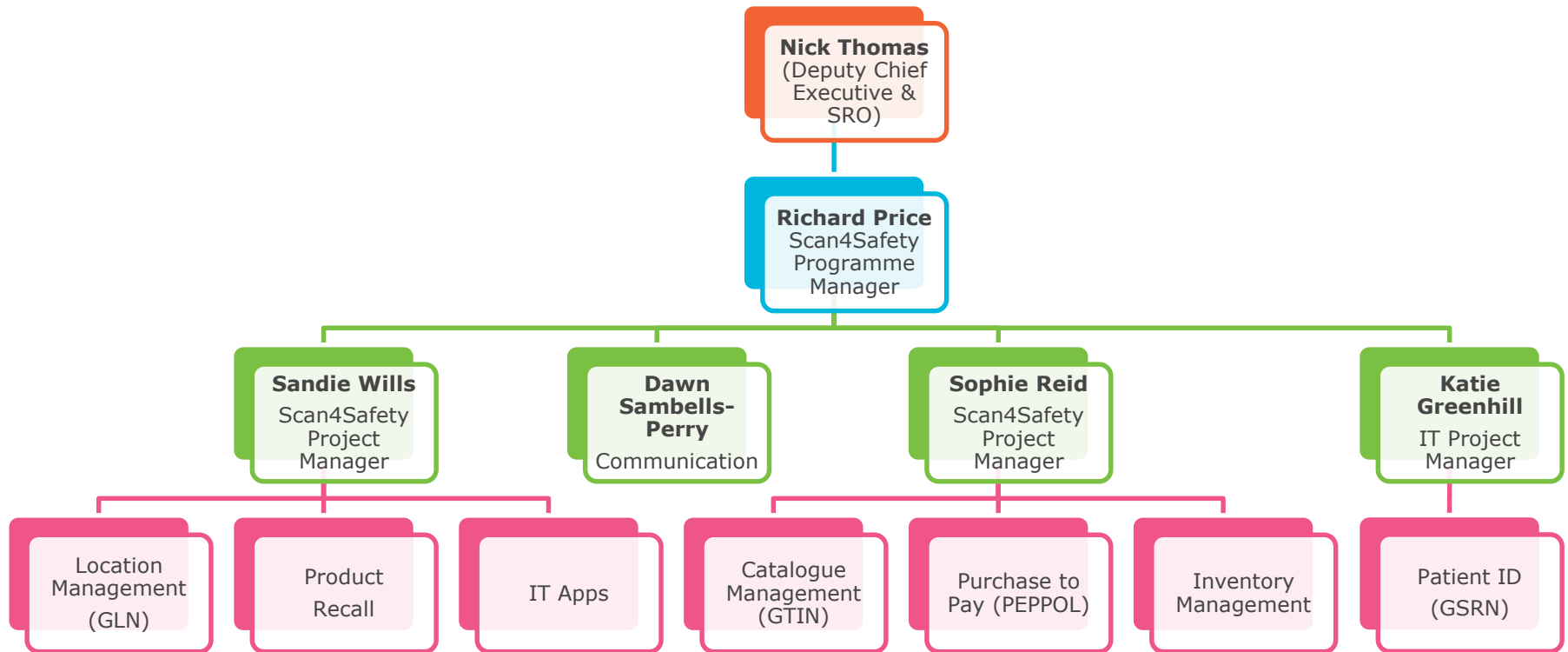


Elizabeth Raikes
Elizabeth Raikes
Vice-Chair

Programme Structure



Scan4Safety Team - Plymouth



Estates, Pharmacy, Procurement, Software Development, Surgical Instruments, Medical Devices & Clinical Teams

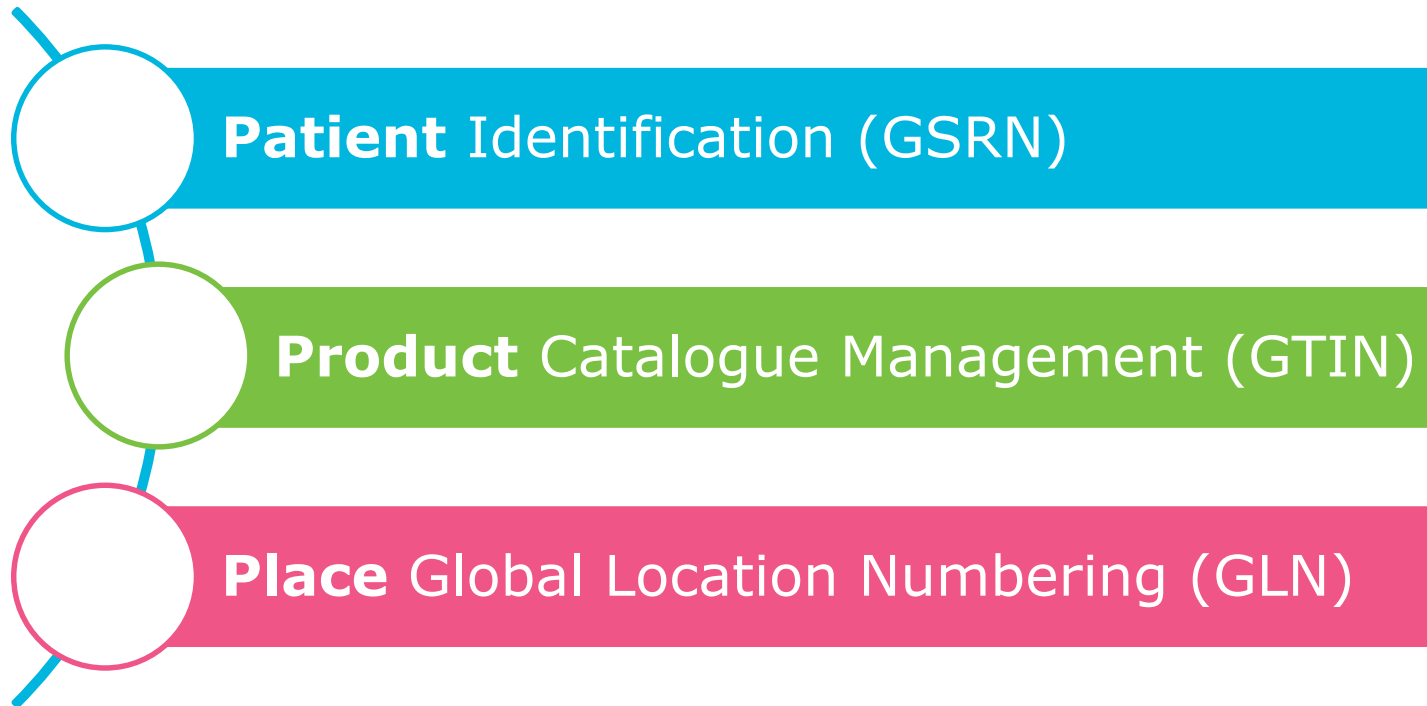


At the End of Year 2/Final Phase

- GS1 barcode standards used for **Patient, Product & Place**
- GS1 & **PEPPOL** standards used for Machine to Machine transactions
- National Registries used for **Place & Product** master data
- Product Recall of all products tracked by **Patient, Product & Place**
- Sustainable Organisational Structures
- eCatalogues used for all products and relevant services
- Automated inventory replenishment
- Reduction in inventory levels
- Single in-Trust logistics function approved by the Trust board
- Final case studies presented



Core Enablers



Core Enabler Detail



Patient (GSRN)

- GS1 compliant 2D Data Matrix, used to identify a **Patient**
- ISB 1077 Standard for data capture

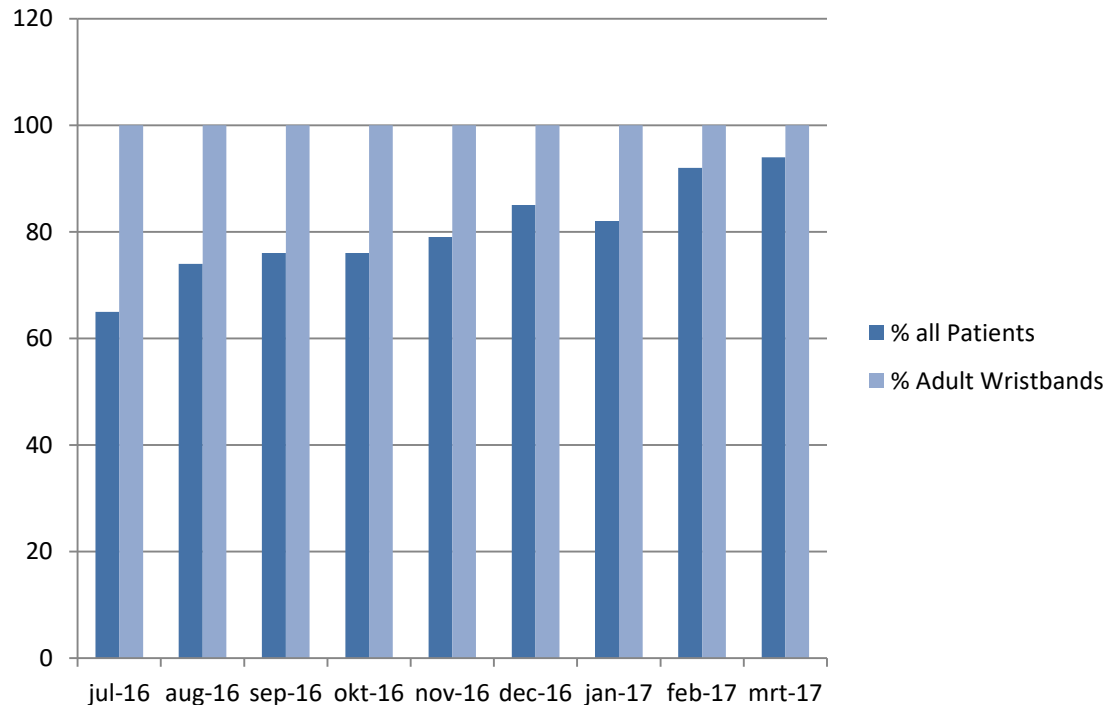


Core Enabler Achievements



Patient (GSRN)

% Patients with a GS1 wristband



Lowest Over-riding Wards = or <10%

Torcross
Clearbrook



Highest Over-riding Wards

Over-riding Wards >30%

Argyll
Central Delivery
Child Assessment, HDU, Ward
Day Assessment
Eden
Freedom
NNICU
Obs Triage
Transitional Care
Woodcock

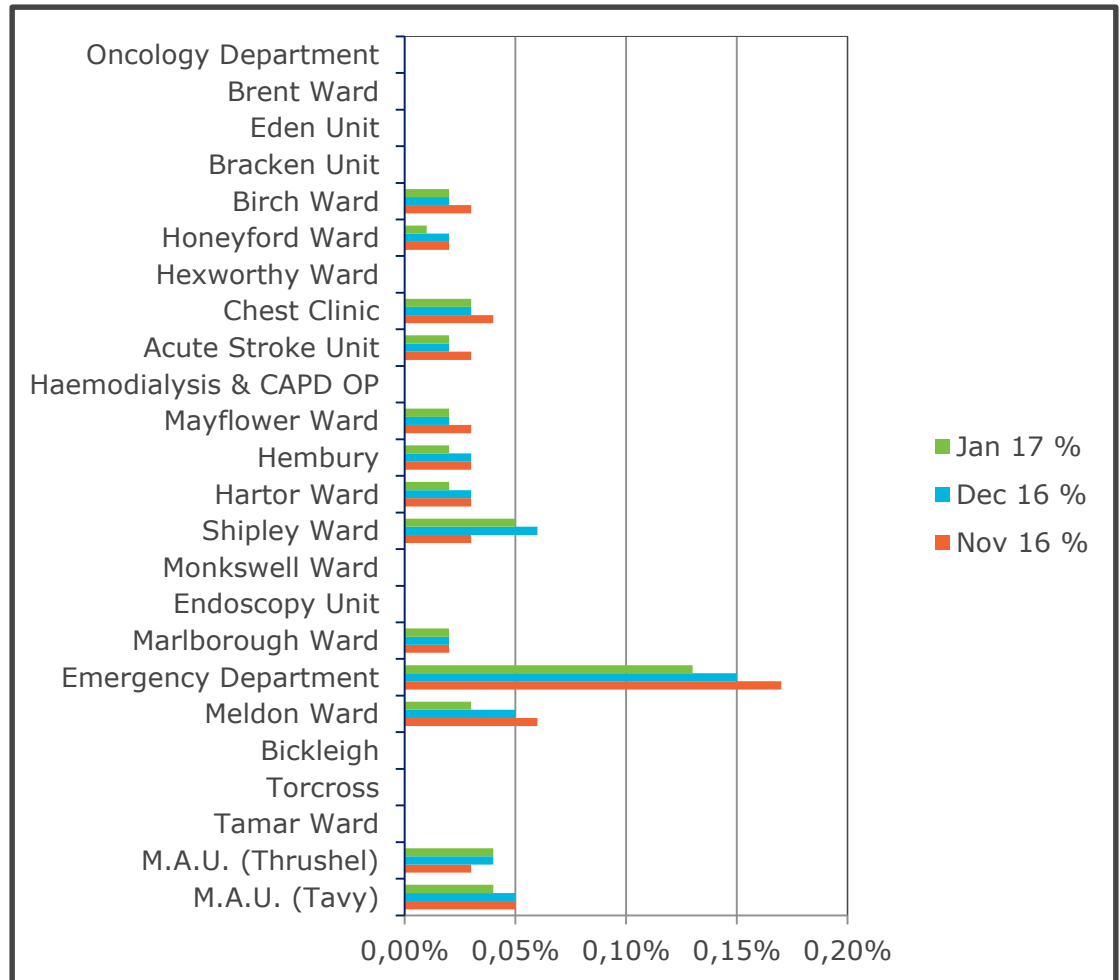
Core Enabler Achievements



Patient (GRSN)

Mislabeled blood samples:

- Emergency Department
- Wrong Patient details
- Inconvenience to Patient
- Increased number of tests



Core Enabler Detail



Product (GTIN)

- Identifies a product
- Healthcare issues using catalogue number:

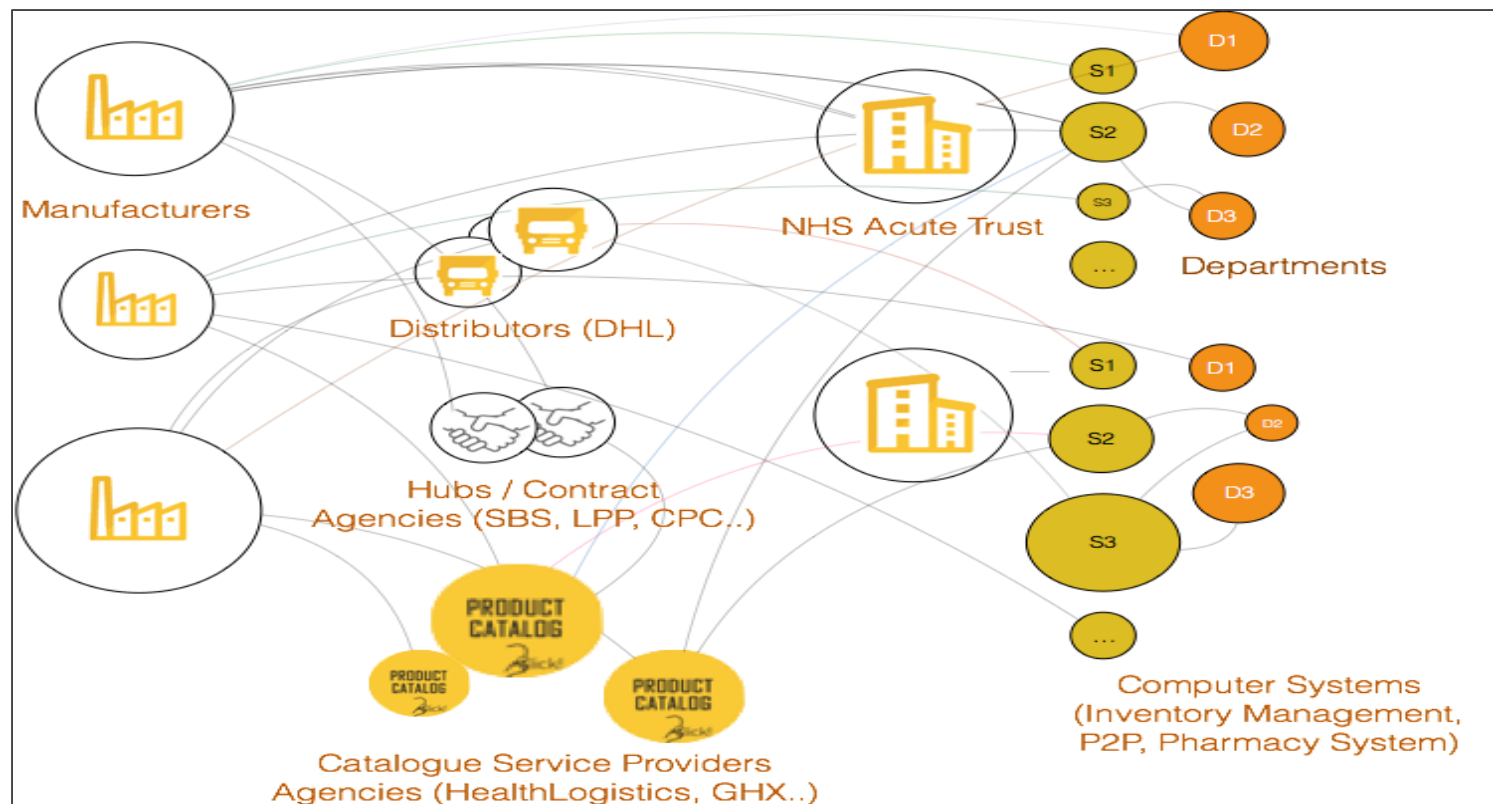
| Manufacturer | Catalog # | Description |
|--------------|-----------|----------------------------------|
| Medtronic | 305905 | Mosaic ® 305 Porcine Heart Valve |
| BD | 305905 | 3BD SafetyGlide ™ Syringe |
| J & J | 305905 | Protectiv ® IV Catheter System |

Core Enabler Achievements



Product (GTIN)

Current state

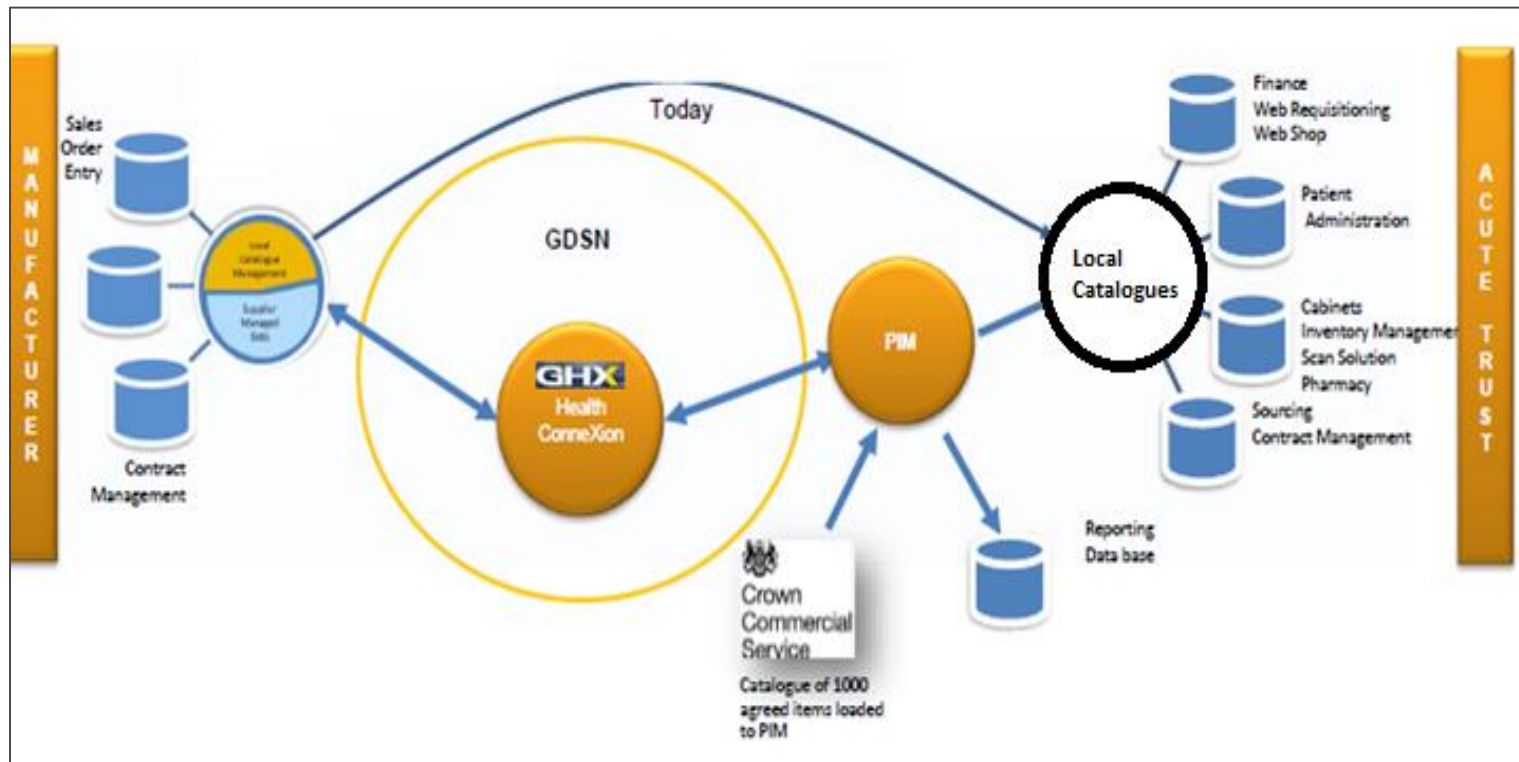


Core Enabler Achievements



Product (GTIN)

Future state





Core Enabler Detail

Place

Unique number to identify a physical space:

| GS1 Global Location Number (GLN) | | | |
|--------------------------------------|---------------------------------------|-------------|---------------------------------------|
| GS1 Company Prefix number example | Location reference element example | Check digit | Number of GLNs that can be created |
| 5012345 | 00000 | 8 | 100,000 |
| 50551234 | 0123 | 9 | 10,000 |
| 506001234 | 999 | 8 | 1,000 |

Physical GLN hierarchy:

| | |
|--------------------|---|
| Level One | A single code identifying the Organisation/Trust |
| Level Two | Each site/campus/hospital operated by the Trust |
| Level Three | Individually identifiable buildings or areas within particular site/campus/hospital |
| Level Four | This applies to floors within buildings. |
| Level Five | This applies to rooms, corridors and other discrete spaces that need to be identified. This could include ducts and riser cupboards |

Core Enabler Achievements



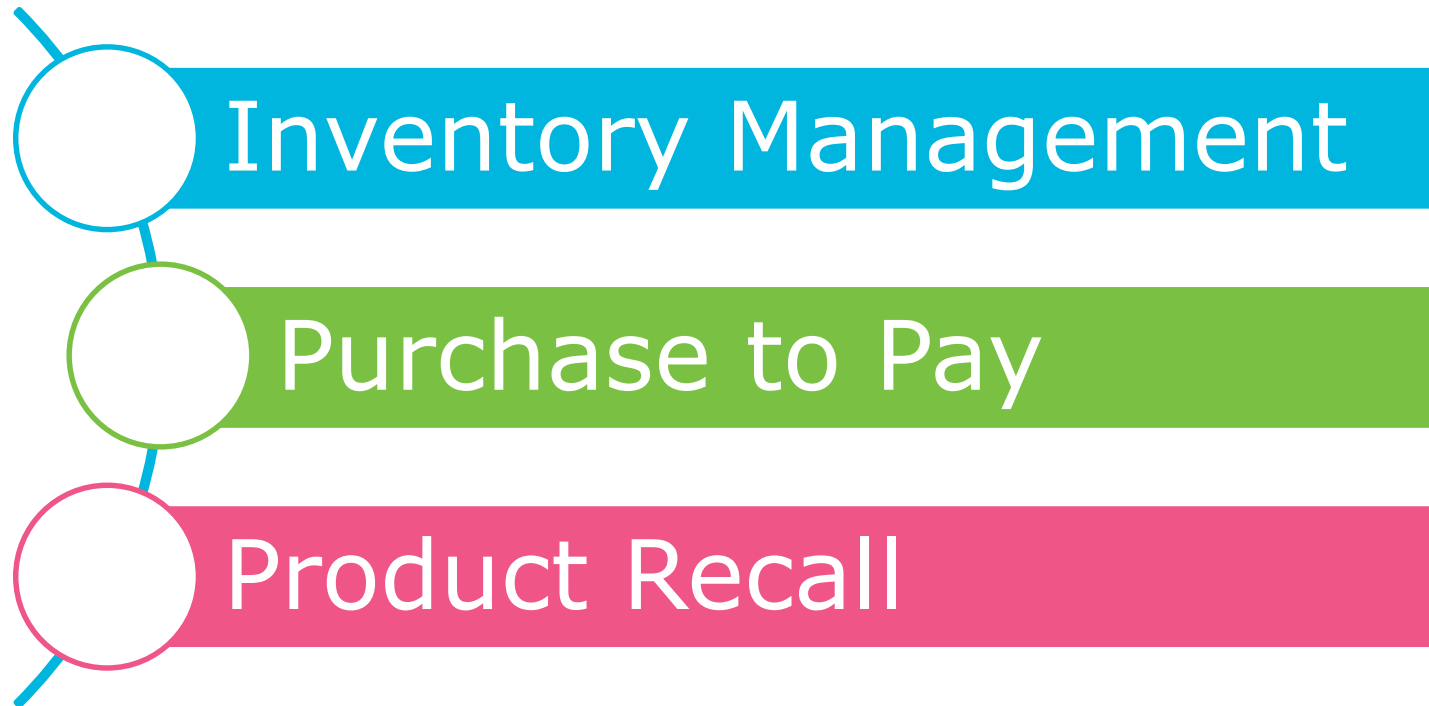
Place



- 100% of all physical places now issued with a barcode
- In-house development of Local Registry for management of all GLNs
- Public-facing GLNs uploaded to LocationManager (National Registry)



Process (Use Cases)





Inventory

- Manage products by a single function
- Make policy & process clear and understandable
- Release clinical time back to care
- Track & Trace Class III Medical Devices and Medicines
- Machine to machine auto-replenishing using master data
- Reduce process errors & inventory levels

Use Case Achievements



Inventory

- Policy & procedures
- Prioritised areas to control
- Agreed Point of Care scanning solution
- Demonstration to clinical staff

Use Case Achievements



Use Case Achievements



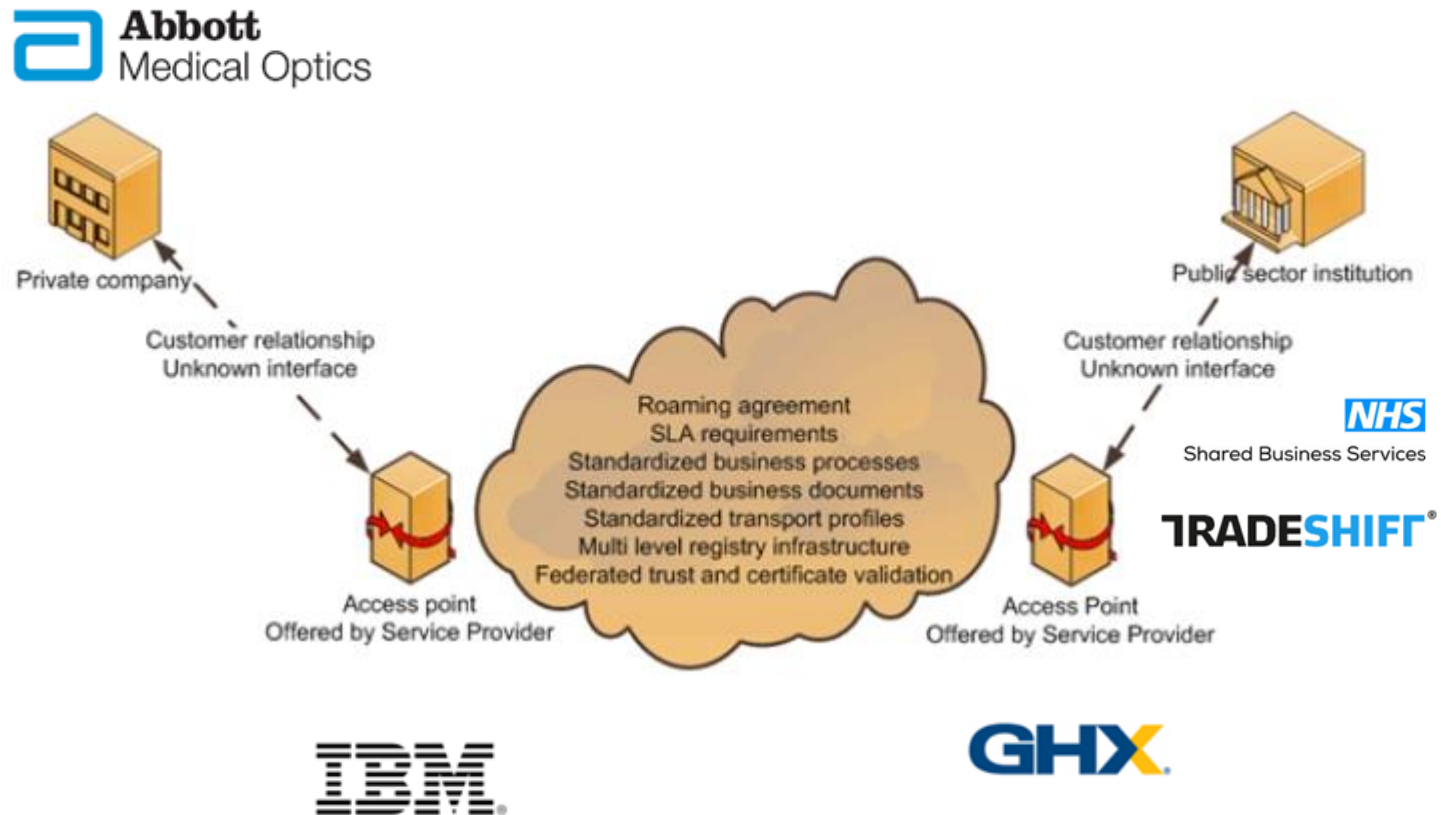
"We deliver over 5,000 babies per year. The knock-on effect of these savings has created more time for midwives to spend at the point of contact"

Nicola Phillips – Matron for Clinical Standards, Nursing Quality Team

Use Case Detail



Purchase to Pay



Use Case Achievements



Purchase to Pay

- PEPPOL access point live with GHX
- 4 corner model tested with Abbott Medical
- Turning off Paper Order printing/faxing
- Using GLN & GTIN to order



Use Case Detail

Product Recall & Traceability

- Electronic systems using the GS1 standards
- Focus on Class III Products
- Core Enablers and Use Cases implemented

Why are we doing this?



Use Case Achievements



Product Recall

- Trust reviewed its policy & procedures
- Creation of single point for recalls
- Non-pharmacy system fully upgraded



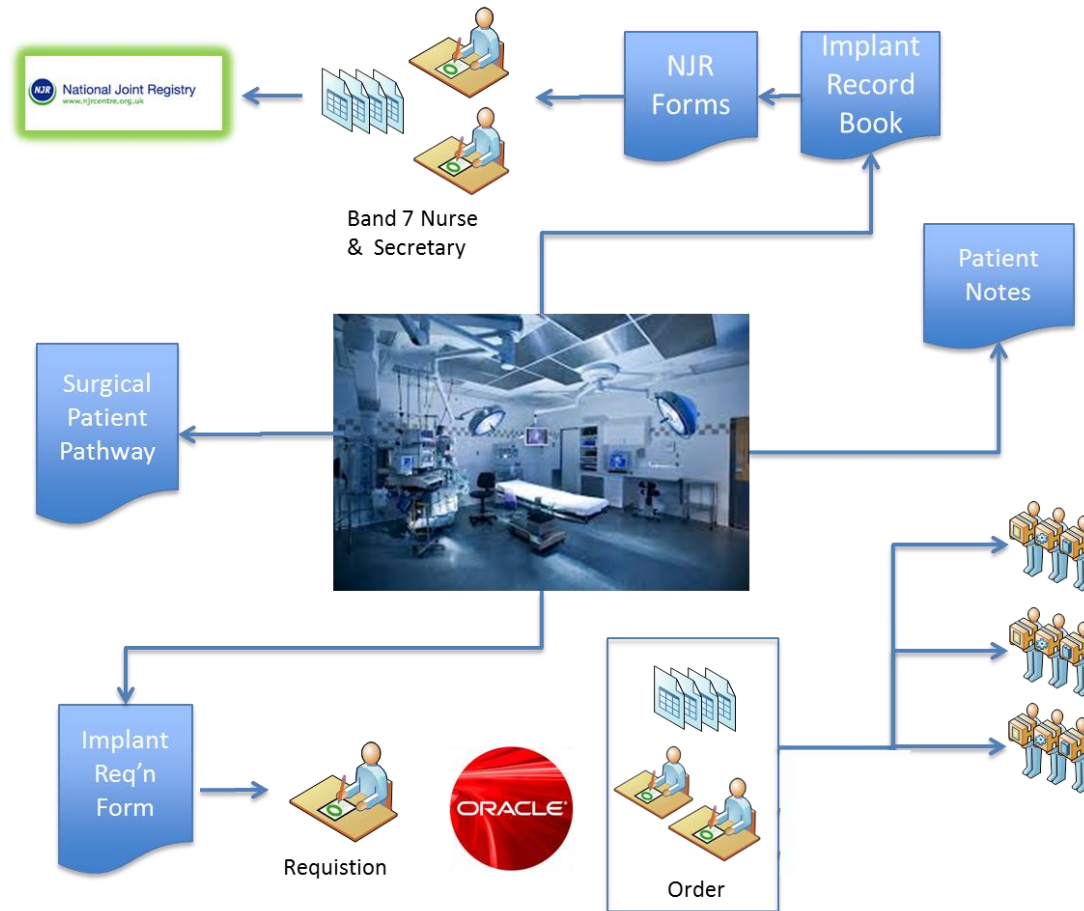
How have GS1 Standards come to life?

- Point of Care Scanning:
 - Theatres & Wards - Patient/Product/Place/Asset
 - Development of in-house software app - Patient/Product/Place
- Supply Chain Efficiencies:
 - Machine to Machine processing – Product/Place
 - Track & Trace (Product Recall) of products – Product/Place/Patient

Driving Value



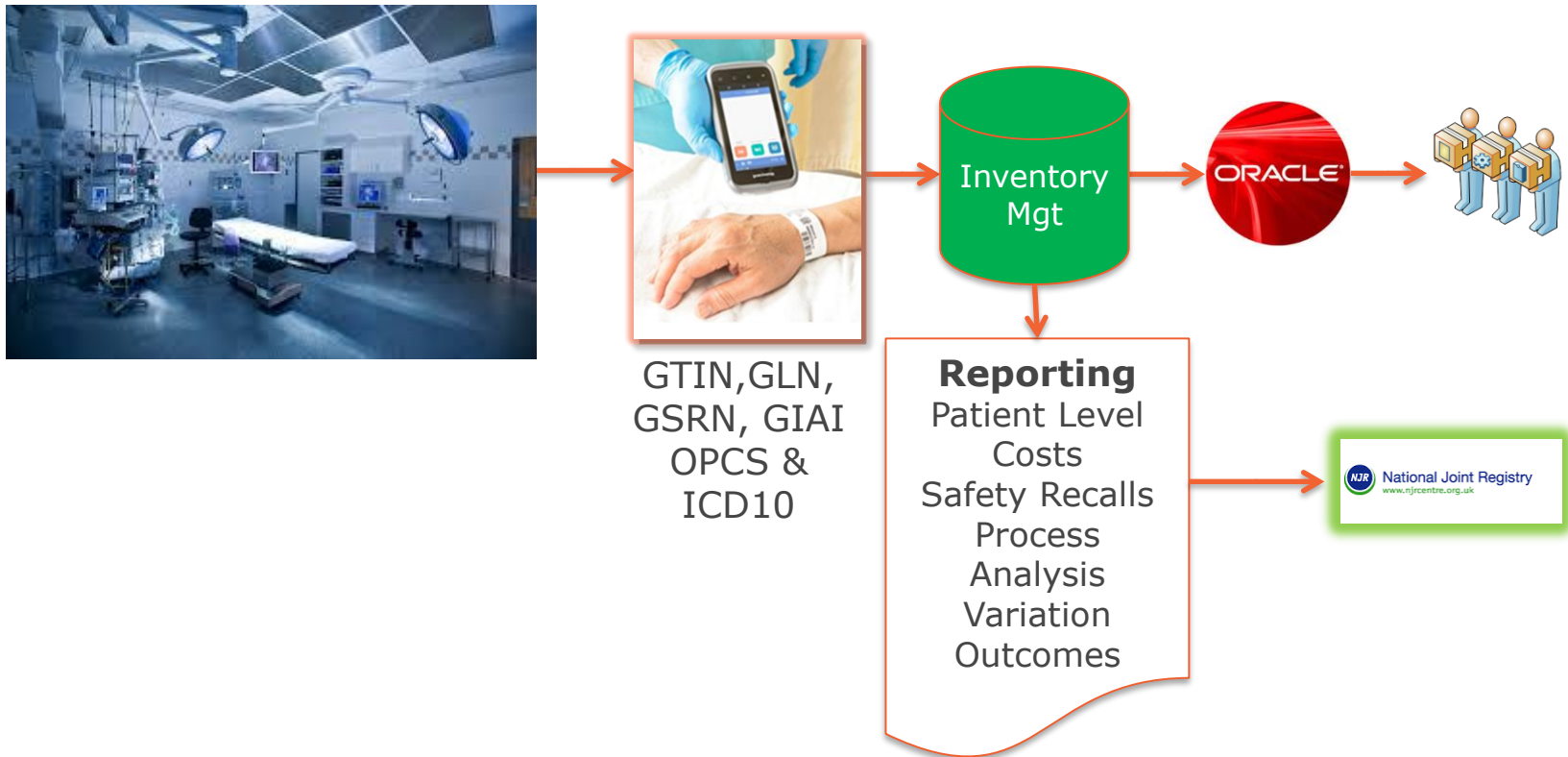
Point of Care Scanning – Current State



Driving Value



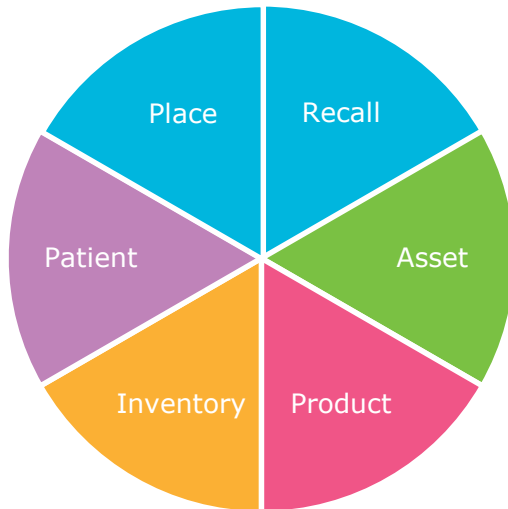
Point of Care Scanning – Future



Driving Value



Point of Care Scanning – Solution



← Add Surgery SAVE

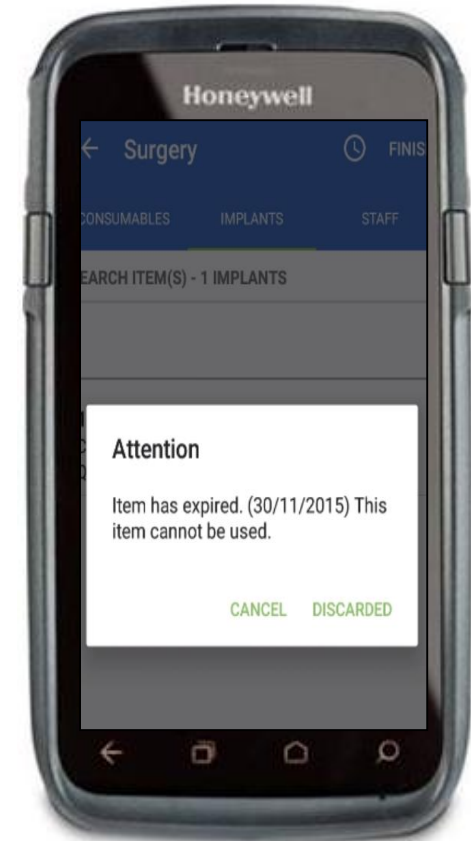
SCAN BARCODE / ENTER DATA

Patient Location
PT000001 - Theatre 1

Patient Identification Number
10621032

Surgeon
4018937 - Mr Mark Brinsden

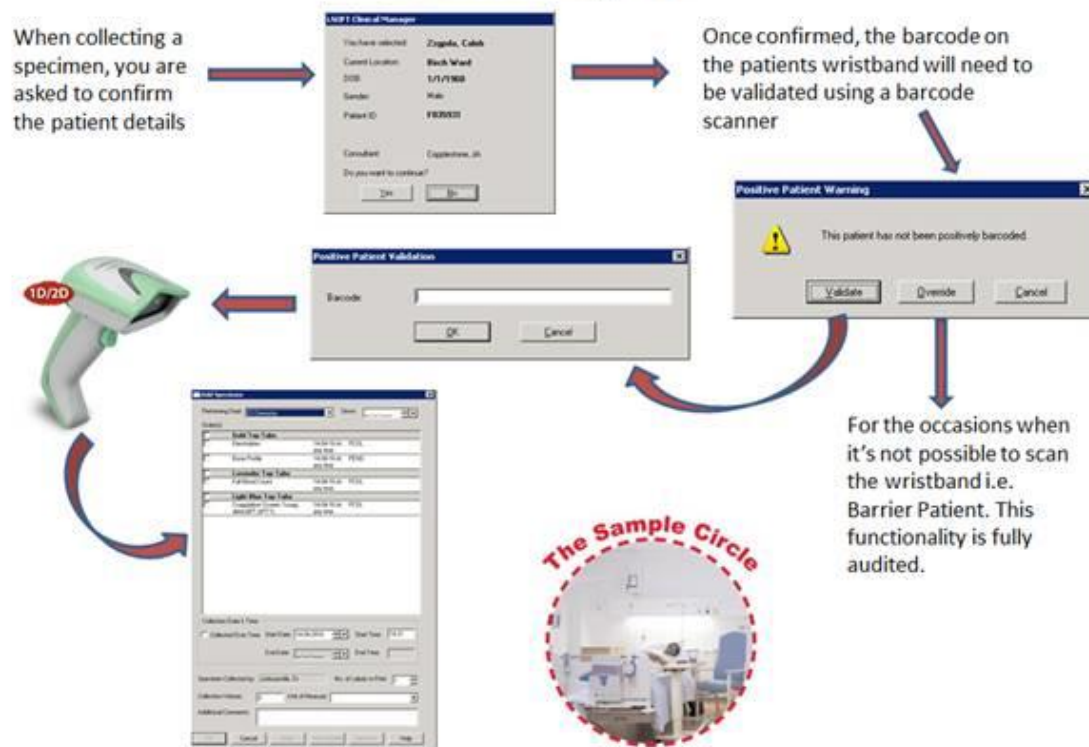
Procedure
PS001 - SHOULDER REPAIR 1





Point of Care Scanning - Order Communications

ICM (iSOFT Clinical Manager) – Positive Patient ID for Safer Sampling –
GO LIVE 3rd May 2016



Driving Value



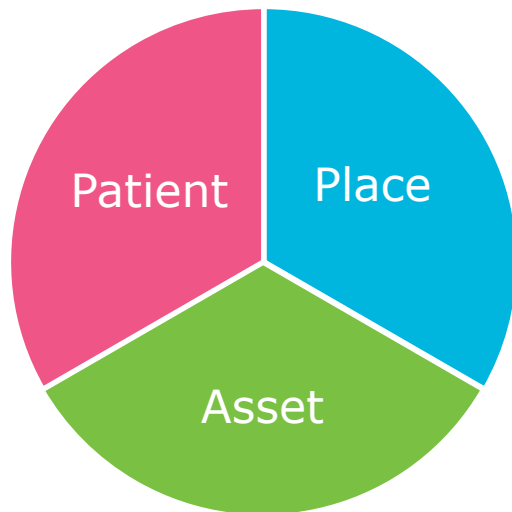
Point of Care Scanning - Blood tracking



Driving Value



IT Apps - Specimen Tracking

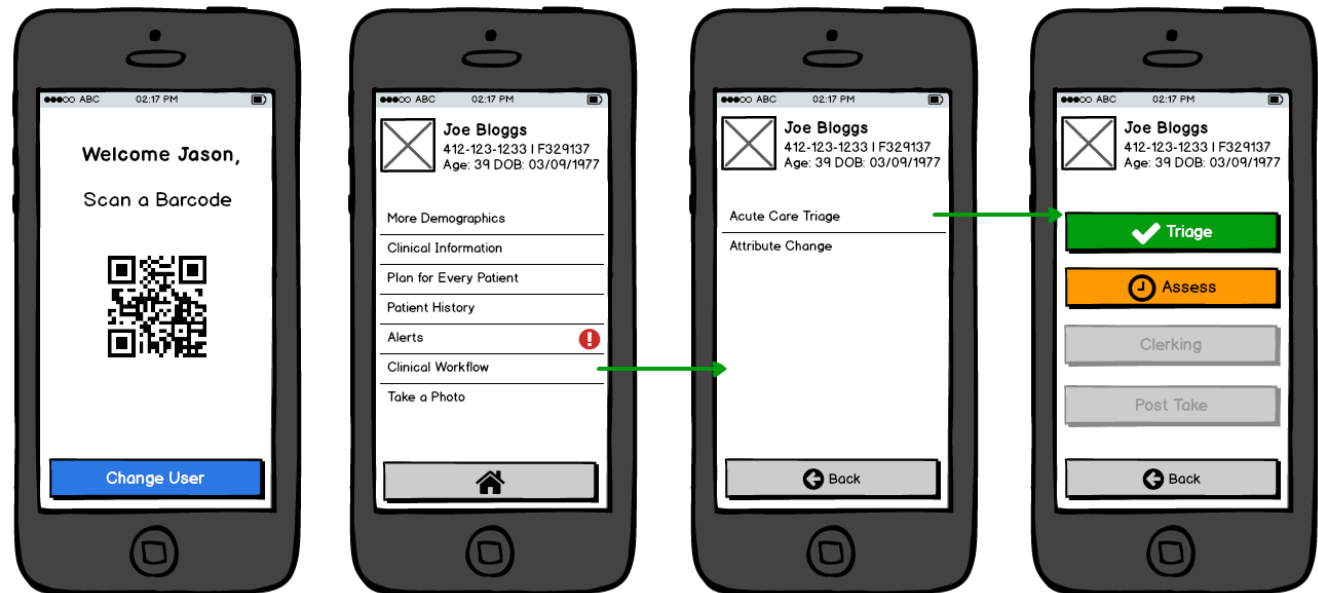


Driving Value



IT Apps - Acute Care Triage

Patient Place



Driving Value



Rollout Timelines - 2017

| March | April | May | June | July | August | Sept | Oct | Nov | Dec |
|------------------|-------|--|------|--|----------------------------|------|------------------|-----|-----|
| POC Scanning TOR | | POC Scanning Cardiology & Cardiothoracic | | | POC Scanning Neurosciences | | POC Scanning TBC | | |
| | | | | Scanning MEMs/SDU Equipment (Theatres) | | | | | |
| IT Apps | | | | | | | | | |
| Development | | Proof of Concept/Prototype | | | Go-Live | | | | |

What's next?



Taking GS1 Standards further

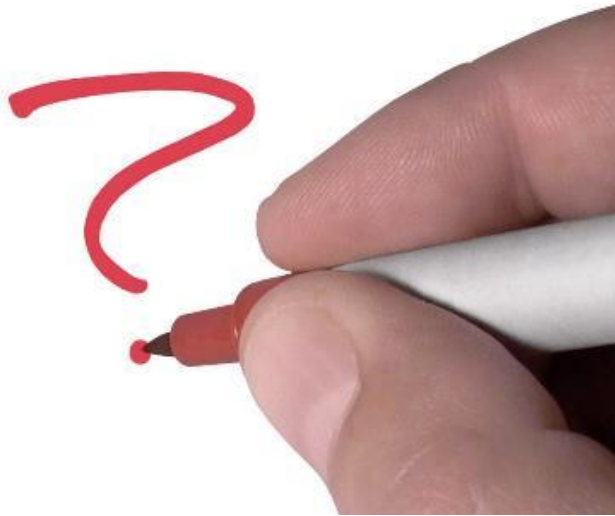
- GSRN – Staff
- GIAI – Medical Equipment & Instruments
- EPCIS – What, Where, When & Why? (Who? ...)
- Advanced Shipping Notes (ASN)



Quotes from around the hospital

- 'Scan for Safety ticks all the boxes - patient safety, efficiency and best use of technology - the programme puts patients first and clinicians believe in it' – **Ann James, Chief Executive**
- 'The introduction of PPID has meant that 'we' as phlebotomists now can feel confident that we are taking samples from the correct patient. Repeat visits are reduced and patient confidence is increased' – **Adam Webb, Phlebotomist**
- 'Since introducing PPID our staff now 'stop & check', this ensures we will be transfusing the correct patient, I have confidence that the introduction of PPID through the bedside scanning application will reduce patient and make the transfusion of patients in our Trust safer' - **Caroline Lowe, Specialist Practitioner of Transfusion**

HPAC Questions and contact details



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