The Global Language of Business

EAHM Presentation

Safer, more efficient care starts with a simple scan!

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28th March 2018

Agenda

- Introduction
- Track and trace in healthcare
  - Regulatory
  - Patient safety
- International experience - Scan4Safety
- Irish Healthcare – Scan for Surgery at St James's Hospital
- Key Takeaways

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It all starts with a simple scan
GTIN/EAN

The first scan in 1974

today

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An international standards organisation

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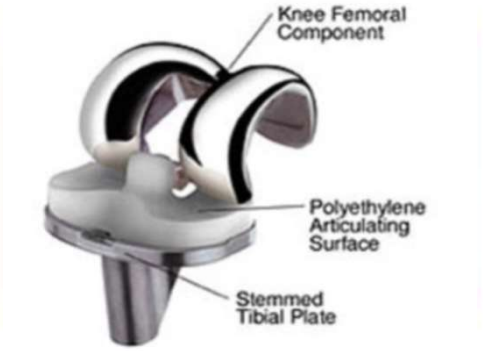
Patient Safety and Traceability today

State of the art medical technology

VS

Supply Chain Traceability from the Dark Ages



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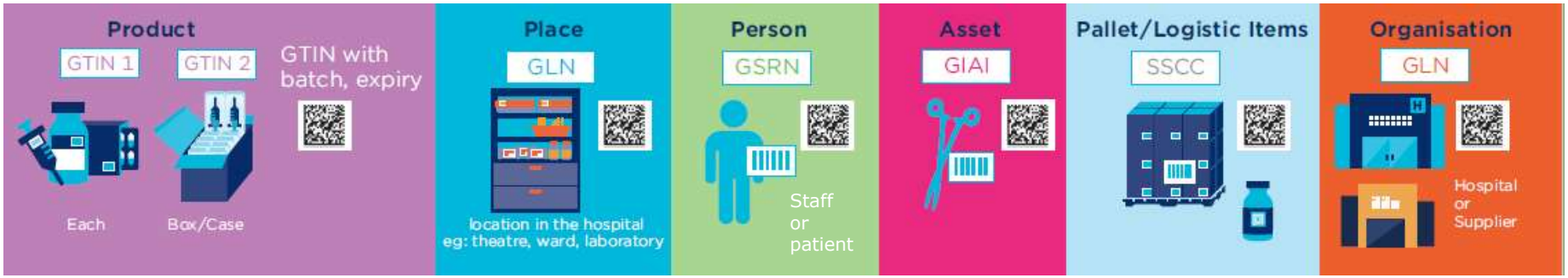
Using GS1 Standards to track and trace in the hospital

Track and Trace in the Hospital
Real time visibility of what happened
Right product, right place, right person



…..Linked to the right procedure,
Real-time, accurate data from the point of care!

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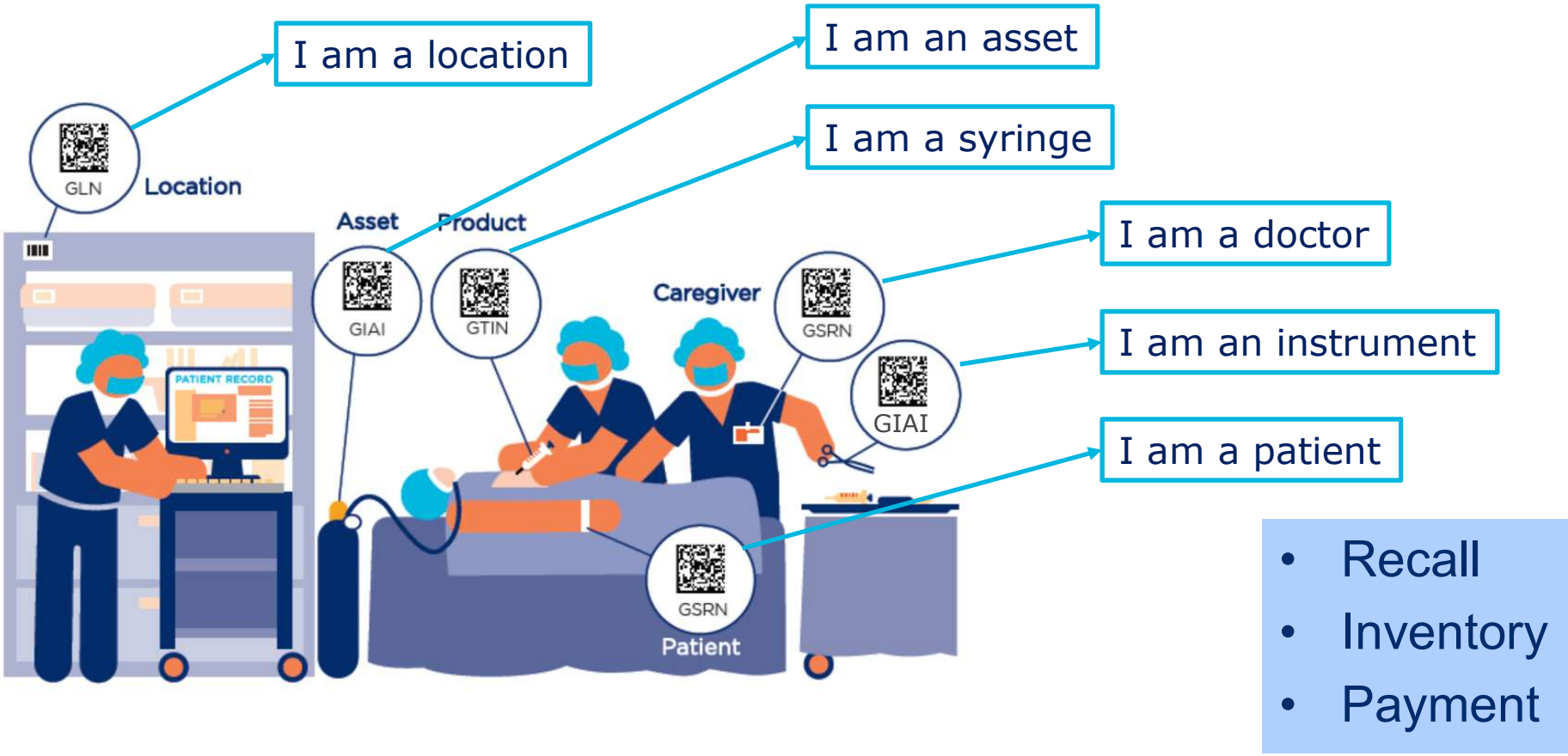
What happens when….
a GS1 barcode is scanned?



- Recall
- Inventory
- Payment

GS1 Standards enable many applications and uses within industry sectors

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What are the regulators saying?

Medical Devices:
Unique Device Identification (UDI)

- (01) Product Code/GTIN
- (10) Batch
- (17) Expiry
- Serial number (where applicable)

Deadline for EU: May 2020

Note: FDA regulation already in place

Pharmaceuticals:
Falsified Medicines Directive (FMD)

- (01) Product Code/GTIN
- (10) Batch
- (17) Expiry
- (21) Serial Number

Deadline for EU: 9th Feb 2019

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Storage and traceability requirements in the EU for Medical Devices
(from May 2020)

DID YOU KNOW?

All Hospitals in EU will be required to capture and store the barcode in their IT systems – starting with Class 3 Medical Devices (eg: implants)

Storage:

- store and keep, ***preferably by electronic means***, the UDI for class 3 implantable devices and for devices identified via implementing acts
- Only class 3 implantable devices for health institutions

Traceability:

- identify any operators/health institution to whom have directly supplied a device and any operator who has directly supplied them with a device: one-up-one-down traceability model
- Manufacturers will be required to include the UDI in Recall and Field Safety Notices

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Medicines & Healthcare products Regulatory Agency

The big question:

how can we use UDIs in combination with existing patient record systems to improve patient safety?

UDI with a GTIN, Expiry and Serial Number

Source: MHRA – Traceability and Identification, Andy Crosbie

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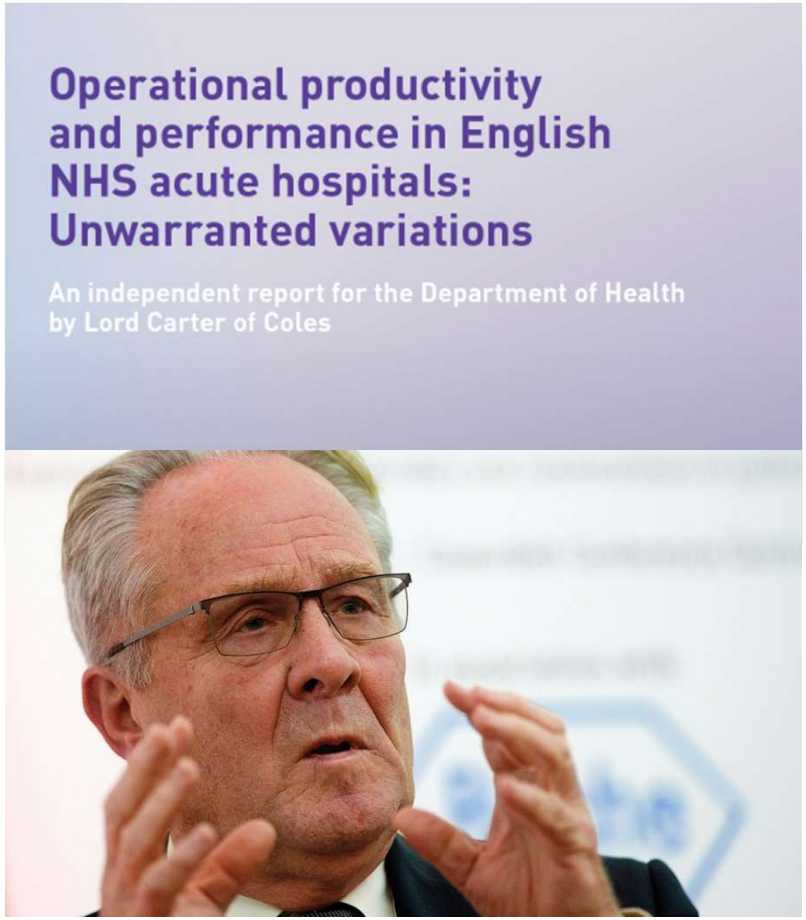
The Carter Report



Lord Carter of Coles refers to GS1 Standards

A typical hospital can save £3m every year by adopting GS1 standards

GS1 standards…

- support the £750m Procurement Transformation Programme
- deliver the structured data supporting electronic prescribing and medicines administration
- enable eRostering, Electronic Patient Records and **Patient Level Costing**

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UK DH Mandate – Scan4Safety

SCAN4SAFETY
Patient. Product. Place. Process.

Jeremy Hunt announces six demonstrator sites of excellence

> Scan4Safety isn't another large-scale system change, this is about making modifications to our existing processes and systems to ensure they speak a common language – GS1 standards. This consistency, together with our new Electronic Patient Record, will give us, for the very first time, a much more joined up, holistic view of the patient journey.
>
> **— Rob Webb, Associate Director of Procurement and Commercial Services, Salisbury NHS Foundation Trust**

Core Enablers

- Patient Identification
- Location numbering
- Catalogue Management

Use Cases

- Inventory management
- Purchase to pay processing
- Product safety recall

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UK DH Mandate – Scan4Safety

SCAN4SAFETY
Patient. Product. Place. Process.

Video: Saving thousands of lives and millions of pounds
https://youtu.be/HRs-AtzjsnA

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Developing a ‘Scan-do’ attitude!
GS1 UK Healthcare Conference 2016

‘A lot of money in our health service is just wasted. This programme is one way of liberating some of that cash’
Pat Mills
Commercial Director UK DH

‘Saving money saves lives, because the money we save by disinvesting in inefficient practices we can reinvest in the things that work’
Professor Terence Stephenson
Chair, General Medical Council UK

‘Patient safety is absolutely at the top of the list of reasons we’re committed to GS1 as an organisation’
Nick Thomas
Deputy CEO, Plymouth NHS Trust

“*Use of GS1 allows us to do things like identify patients, scan in medicines, medical devices and make sure the right thing, gets to the right person at the right time and so **it has a huge capacity to help patient care***.”
Professor Terence Stephenson, Chair of General Medical Council, UK

“This is not about procurement for me – it’s about much more than that,” he stressed. “This is really about us understanding what we do clinically, and the data informing us what we’re doing.” ●

Keith Jones
Clinical Director, Royal Derby Hospital, NHS

Source: HSJ Special Report ‘Developing a scan-do attitude’

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Putting the patient first, that's what GS1 is all about!

GS1 UK Healthcare Conference 2017

New GS1 UK Scan4Safety video

https://youtu.be/HRs-AtzjsnA

New NHS Salisbury Scan4Safety video

https://www.scan4safety.nhs.uk/salisbury-showcase-benefits-scan4safety-new-video/

We welcomed back Professor Terence Stephenson, Chair of the General Medical Council, who recognised that the challenge he had set at last year's conference of getting real clinical evidence was going to be met later today in Dr Goddard's presentation on the use of GS1 standards in endoscopy. Dr Goddard, Registrar at the Royal College of Physicians and Consultant at Royal Derby Hospital, made the benefits clear. They now have data that they've never had before – they scan the co-morbidities of their patients, they track all their consumables and they know their complication data. Their reporting has improved, their stock control is better and they can now have conversations about how and why procedure runs late or goes wrong. They never had this before and as Dr Goddard himself said, "it has to be the way forward."

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Scan4Safety – North Tees & Hartlepool
The anticipated benefits by Oct 2017

Faster product recall response times **Increased Time to Care**	**Reduced number of adverse drug effects** **£168k Saving + Time to Care**	**Lower NHS LA contribution** **£74k Saving**	**Automated stock ordering** **Increased Time to Care**
Reduced stock wastage **Reduced obsolescence** **£734k Saving**		**Reduced stock levels** **£1.5m Saving**	**Machine-to-machine POs and invoices** **£94k Saving**

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Key Clinical Benefits

Scan4Safety is about enabling clinical productivity

- Making sure staff have what they need, when they need it and where they need it
- Faster, accurate data capture allowing more time to care for patients, spending less time looking for things or filling in forms
- Making better informed clinical decisions through more accurate and timely data
- Reducing clinical variation

Data based on assumptions >> REAL DATA

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Royal Derby - Reporting Data System

HRG, Procedures and Diagnosis

Diagnosis Description	No. of Consulta...	Avg Consumable C...	Avg No of Products	Avg No of Staff	Avg Minutes	No of Procedur...	Lower Quartile	Upper Quartile	Variance	Std Deviation
Impacted Teeth	5	£122	52	7	54	39	£102	£148	£132	£31

Consultant

Consultant Description	Avg Consumable C...	Avg No of Products	Avg No of Staff	Avg Minutes	No of Procedur...	Lower Quartile	Upper Quartile	Variance	Std Deviation
Mr Chiu	£132	55	7	58	15	£111	£148	£65	£22
Mr D Laugharne	£128	53	5	19	1	£128	£128	£0	-
Mr P Korczak	£124	53	7	61	9	£102	£142	£66	£24
J Stenhouse	£122	49	7	68	4	£92	£150	£65	£35
Mr K Jones	£106	49	9	40	10	£73	£140	£122	£43

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Learnings from other hospitals/trusts

Success Stories

Salisbury NHS Foundation Trust

- Orthopaedic Consultant resistant to scanning. *'My team always check'*
- Challenging trend towards use of highly expensive product. *Presented with the data, clinicians challenged their own practices.*
- Consultants now proactively seeking meetings with Procurement to discuss data.

SCAN4SAFETY

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Track and Trace in Irish Healthcare

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Healthcare User Group (HUG IRL)
Creating Awareness

HUG Information Day – 28th March 2017

Head of Procurement, HSE
Director of Facilities Management, SJH
Assistant National Director of Logistics

HPRA (Regulator)
IMVO, IPHA
Industry (Pfizer, DCC Vital, Boots)

Next event: Friday 4th May
Email - Siobhain.Duggan@gs1ie.org to learn more

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Key Track & Trace (GS1) projects in Ireland

Feidhmeannacht na Seirbhíse Sláinte
Health Service Executive

National

Patient ID

IHI has a GS1 prefix

Instruments & Endoscopes

52 Hospitals

Haemophilia

Traceability to Patients home

Scan4Surgery

Live in SJH

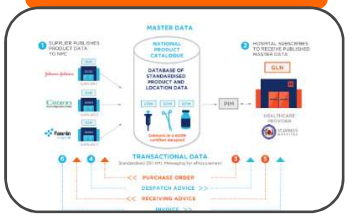
Location ID

HSE Services Directory: Locations, Entities, Practitioners, Systems, Services

Procurement

GS1 included in HSE tenders for Medical Devices

eProcurement



GS1 enabling order to cash (Data and electronic messaging)

Automatic tracking

RFID tags to track Patient, Samples, Assets …

Hospital Level

Other examples

- HSE National medical equipment asset registry (Assets)
- HSE Services Directory (Staff, Services, Locations)

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Patient ID in Ireland

Patient ID

Feidhmeannacht na Seirbhíse Sláinte
Health Service Executive

	GS1 GSRN Prefix (Global identifier)	Core IHI Number	Core IHI Number check digit	Final GS1 check digit
Basic Format	9999-999	999-999-999	9	9
Illustrative example	5393-014	923-456-789	1*	2*
Full example IHI Number	GSRN	5393-014-923-456-789-1-2		

*check digits are not valid – demonstration only

Example of Standard Patient ID in the UK

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National Instrument Track & Trace

Feidhmeannacht na Seirbhíse Sláinte
Health Service Executive

Hospital Decontamination Unit

Theatre use

Cleaning

Disinfection

Inspection

Packaging

Sterilisation

Sterile goods

Trays and Loan Sets

Unique Asset Identifier
GIAI

Initial Check

Loan Instrument Sets

Loan set – Example

Which loan set would you rather process?

SJH HSSU during 1 week in Feb 2015

Not GS1 Coded

- 30 loan sets
- 60 reprocesses
- Huge paper trail
- Manual tracking
- Very time consuming
- Manual rekeying and transcription of data

Hours

vs

GS1 Coded

- 4 loan sets
- 8 reprocesses
- Huge paper saving
- Electronic tracking
- Very time efficient
- Unique identification of set (GS1 barcode)

Seconds

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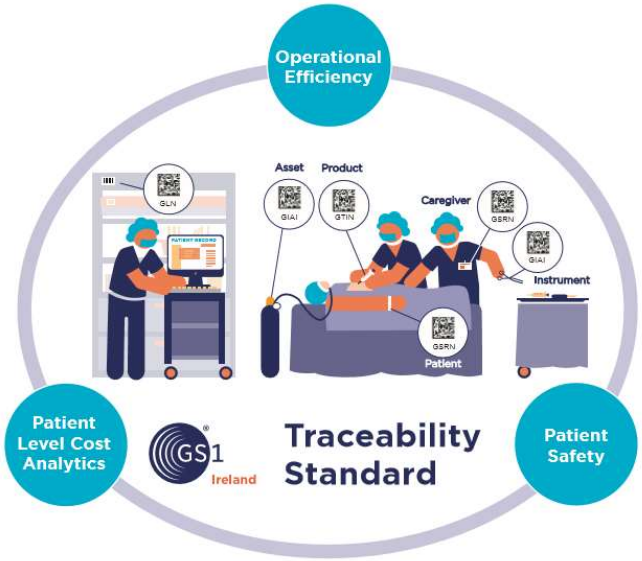
Scan for Surgery at St James's Hospital

Use GS1 Barcode Standards Approach

Modern Track and Trace Technology

Deliver Multiple Benefits



SJH can now track 89% of cost to the patient (prev. 4%)

Operational Efficiency
- Automation of product supply chain processes for nursing
- Make additional time available for patient centric activities
- Managed minimum inventory levels

Patient Safety
- Product Traceability to individual patients
- Product Expiry Identification

Patient Level Cost Analytics
- Increased visibility of real-time patient and procedure level costs
- Improved data analytics for decision making

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Operational efficiency at St James's Hospital

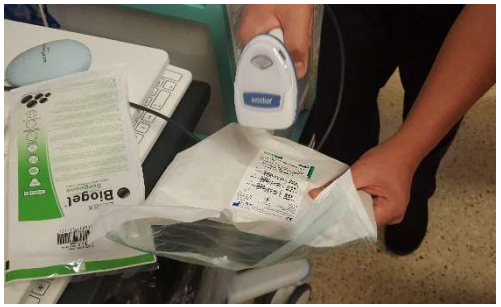
Before

- 20 hours per week to check and reorder stock (and other stock activities)
- Over-qualified role doing non-value added activities
- Limited Time for patient care

Mary O'Brien
Assistant Director of Nursing

After

- 2 hours per week on supply chain activities
- **More time for patient care !!**



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Scan for Surgery
Stakeholder engagement

Clinical buy-in
Nurses to scan at the point of care
Clinicians to demonstrate leadership internally (process change) and externally (industry)

Quality, Risk, Patient Safety

Hospital Management buy-in / Support

Supply chain
(understand logistic processes and implement GS1)

IT
(System integration/ upgrade) GS1 compliance

Procurement
(communicate with suppliers & include request in Tenders)

Finance
(Budget, Analytics, cost savings)

enabled by GS1 Standards

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Conclusion

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Key Takeaways

- Huge opportunity for healthcare providers (patient safety and efficiency)
- Regulation is coming!
- Start now and communicate with suppliers and IT vendors that barcodes and systems must be GS1 compliant
- Work with your local GS1 organisation to get support and advice

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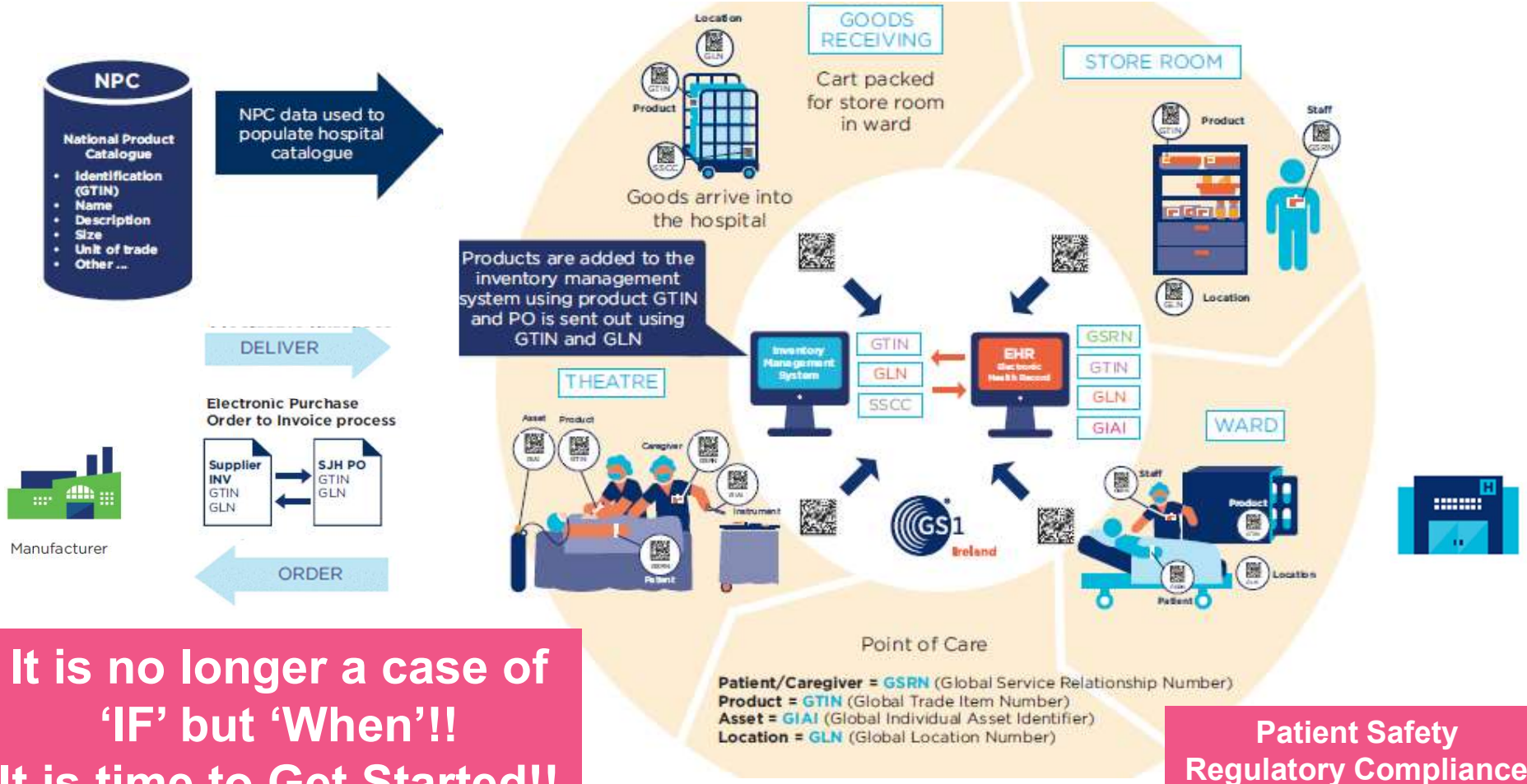
The Future Hospital Supply Chain



It is no longer a case of 'IF' but 'When'!!
It is time to Get Started!!

Patient Safety
Regulatory Compliance
Operational Efficiency

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Want to hear more……

Free online webinars to hear and learn from other hospitals around the world!
https://www.gs1.org/healthcare/hpac_webinars

Some examples of the HPAC (Healthcare Provider Advisory Council) webinars:

- St James's Hospital
  - ✓ 17th April 2018
- Royal Derby Teaching Hospitals
  - ✓ 10th March 2016
- Salisbury Hospitals
  - ✓ 10th May 2017

Scan4Safety website: http://www.scan4safety.nhs.uk/

GS1 webpages: https://www.gs1ie.org/Healthcare

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