

# Healthcare Innovation using GS1 Standards

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## **University Hospitals Plymouth**





- Largest Hospital in South West Peninsula
- Major Trauma Centre
- Secondary and tertiary care to 450,000 people
- Number of beds approx. 1,100
- 7,000 staff members
- Scan4Safety demonstration site

# **Programme Summary**





## £1m+ savings

## Potential for further £1m





## **Programme Summary**

7,286 procedures captured



- **13,971** products (implants) assigned to a unique patient
  - **EFACTOR 25,932** products tracked by lot & expiry date

#### £4.5m cost of items used





**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



**University Hospitals** 

**Plymouth** 



## Not just a 2 year project ....

We wanted to explore 'End-toend traceability of healthcare products and patient events'



## 'How does industry capture events?' EPCIS (What, Where, When & Why?)



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WAREHOUSE

RETAIL

CONSUMER

NHS

Plymouth

**University Hospitals** 





### Who are we working with?









#### **Use case: Medicines TTA tracking - Current**







#### **Use case: Medicines TTA tracking - Future**



healthcare products and patient events' Plymouth **Use case: Medicines TTA tracking - Future** 0 SSCC, GDTI, GLN, GDTI Interfaces **GSRN** (Staff & Patient) Capture Query Date & Time GDTI (Patient Doc) & GLN GLN EPR **EPCIS** REGISTRY Read / Write Master data Event data

**University Hospitals** 

'End-to-end traceability of





#### **Use case: Medicines TTA tracking - Future**

Logout	Scan Collection Point	Name of CP	Scan Bag	Patient: John Smith	Scan Delivery Point
Scan Collection Point		Bags Outstanding 4 Unscanned Bags Procentrole Control Dupboard Priston 3 0 1		Defivered Bags Pipeonitar Defivered Bags Pipeonitar Dottor Dottor Pipeonitar Dottor Dottor Pipeonitar Dottor Dottor Pipeonitar Dottor Dottor Pipeonitar Pipeonitar Dottor Pipeonitar Dottor Pipeonitar Pipeonitar Dottor Pipeonitar Pipeonitar Dottor Pipeonitar	
Scan Delivery Point		Scan Bag	and the second s	Scan Collection Point	
	Back	Home Scanning Complete	Back	Home Delivery Complete	Back



### **Sharing ICT Apps - current**



#### 'End-to-end traceability of healthcare products **University Hospitals** and patient events'

## **Sharing ICT Apps - future**



**Plymouth** 

NHS Trust



### **Sharing ICT Apps - future**







## **Sharing ICT Apps - future**







### **Sharing event data with other Trusts**





## What do we need to do next?

- Finalise Meds App
- EPCIS repository
- Trial in house
- Sharing with other trusts???
- Other use cases
  - MRI (2hrs a week time freed),
  - Implants (national solution?)
- Blockchain development to link up NHS



### Thank you for listening

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