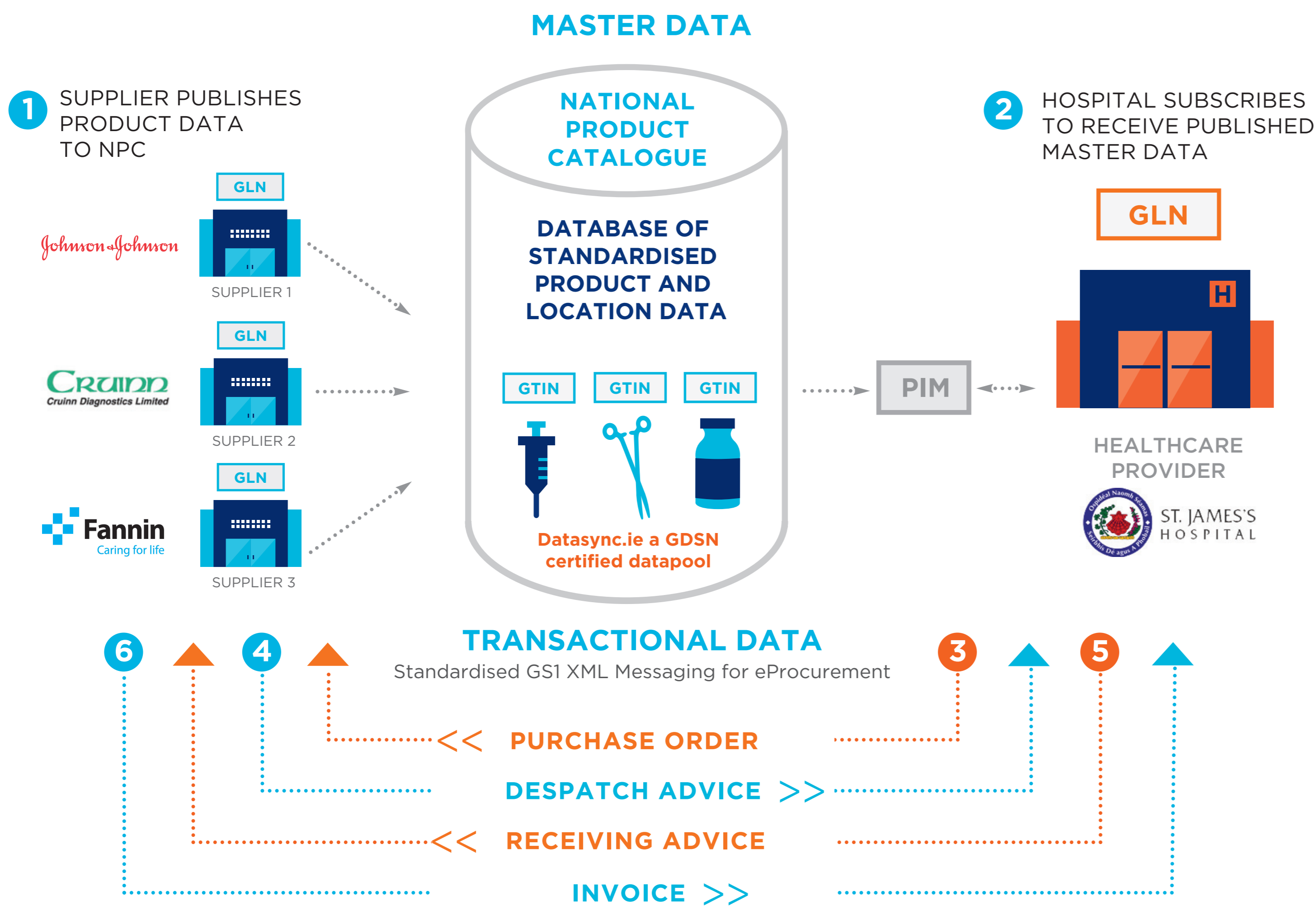# Delivering world-class patient safety and efficiency in healthcare by taking paper and cost out of procurement

"The order was placed first thing this morning, the goods arrived mid-morning and the invoice was on the payment run in the afternoon with no manual intervention. The speed and accuracy of the whole process was incredible, a first for Irish healthcare."
Pat Bailey, SAP Business Architect, St James's Hospital.

In 2013 St James's Hospital (SJH) embarked on a proof-of-concept (POC) project in conjunction with a number of suppliers to automate the end-to-end ordering process. This replaces existing paper based activities. The eProcurement solution utilises accurate Master Data shared by the Supplier through the National Product Catalogue and four electronic procurement messages based on GS1 XML. Cruinn Diagnostics Ltd was the first supplier to go live in September 2014.

MASTER DATA

1. SUPPLIER PUBLISHES PRODUCT DATA TO NPC

Johnson&Johnson — GLN — SUPPLIER 1

Cruinn Cruinn Diagnostics Limited — GLN — SUPPLIER 2

Fannin Caring for life — GLN — SUPPLIER 3

NATIONAL PRODUCT CATALOGUE

DATABASE OF STANDARDISED PRODUCT AND LOCATION DATA

GTIN   GTIN   GTIN

Datasync.ie a GDSN certified datapool

PIM

2. HOSPITAL SUBSCRIBES TO RECEIVE PUBLISHED MASTER DATA

GLN

HEALTHCARE PROVIDER
ST. JAMES'S HOSPITAL

St James's Hospital invites all Suppliers to join the drive to improve patient safety and reduce supply chain cost by being fully GS1 compliant.
For more information go to
www.GS1ie.org/Healthcare/GetStarted

ST. JAMES'S HOSPITAL
- Largest Irish academic teaching hospital
- 1,000+ beds
- 25,000 Inpatients, 95,000 Day Cases, 225,000 Outpatients per year
- 8,000 active product lines
- 800 active suppliers
- 40,000 internal stock orders per year

TRANSACTIONAL DATA
Standardised GS1 XML Messaging for eProcurement

6   4   3   5

<< PURCHASE ORDER

DESPATCH ADVICE >>

<< RECEIVING ADVICE

INVOICE >>

Project Partners

GS1 Ireland (Standards partner)   ATLAS (EDI partner)

EXAMPLE OF ELECTRONIC MESSAGE

SJH Purchase Order
Message header
Buyer **GLN**
Vendor **GLN**
Order Number & Dates

Message text
Order Line Number
GTIN
Quantity
Price

Buyer GLN = links to St James's Hospital Name and Address

Vendor GLN = links to Vendor Name and Address
Note: GLN data available in GS1 Ireland GLN Registry

The messages also use **"Ship to"** GLNs to identify delivery points in the hospital

Product code of the item being ordered = links to data from **NPC**

Quantity of GTIN being ordered = Unit of trade between Vendor and Hospital aligned via the **NPC**

Price aligned via the **NPC** (optional)

Key Success Factors
- Scalable and future proofed
- Integrated
- True to global standards
- Machine-to-Machine
- Dedicated Project Manager

Costs
The set-up costs for the implementation of this model mainly involved (i) SJH system modifications, the (ii) engagement of an EDI service provider and the (iii) participation in the product catalogue. Ongoing systems costs are expected to be no greater than current system running costs and further savings are likely to be achieved as the system is extended.

KEY DRIVERS

New regulations for Medical Devices (UDI) and Pharmaceuticals (FMD) enable Traceability to the patient
- UDI = Unique Device Identification
- FMD = Falsified Medicines Directive

A standardised solution is easily scalable across Irish healthcare
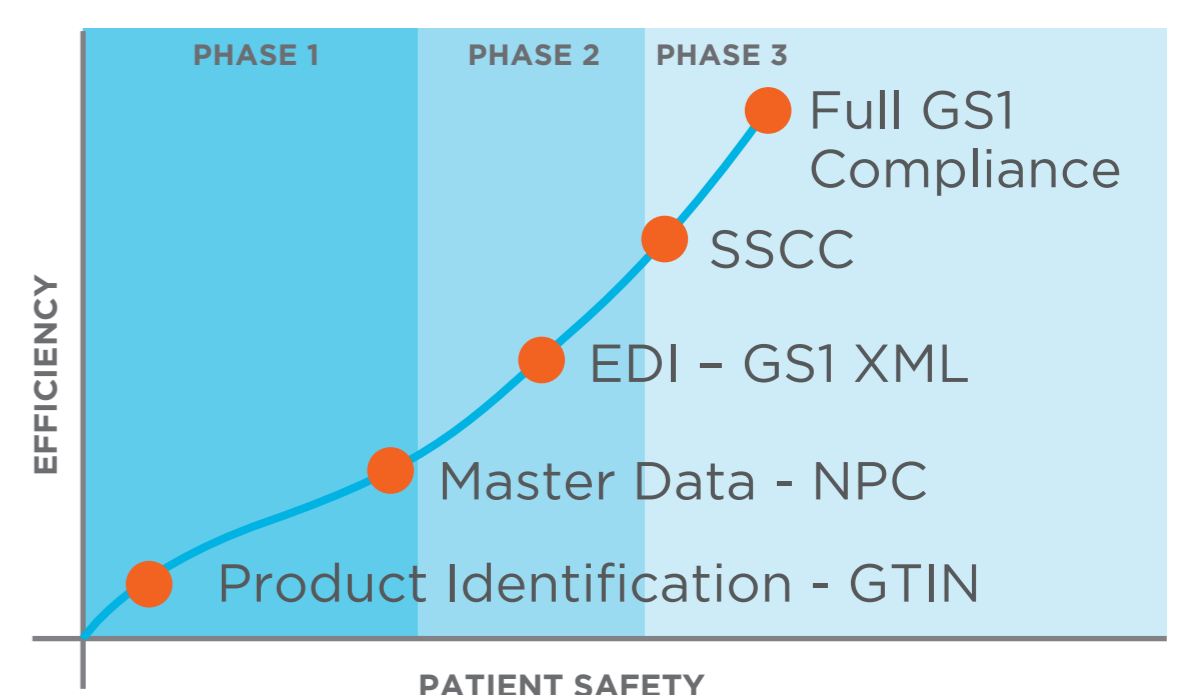
BENEFITS FOR HEALTHCARE PROVIDERS

Patient Safety
- Improves patient safety with consequential reduction in duplicated patient procedures
- Enable effective product recalls and adverse event reporting
- Full end-to-end Traceability to the Patient and the Electronic Health Record

Increased Supply Chain Efficiency
- Improves order and increased visibility of all stock holdings
- Optimise receiving, improve service levels/fill rate
- Reduce inventory wastage & improve shelf management
- Automatic invoice matching

Supplier Adoption Curve

PHASE 1   PHASE 2   PHASE 3

EFFICIENCY

Full GS1 Compliance
SSCC
EDI – GS1 XML
Master Data - NPC
Product Identification - GTIN

PATIENT SAFETY

WHAT ARE THE REQUIREMENTS AND BENEFITS FOR SUPPLIERS?

Suppliers to confirm their IT Systems can process GS1 Identifiers (GLNs and GTINs)

Meet criteria in tenders that request GS1 compliance both in Ireland and other countries

Improves efficiency by automating the order to cash process

Ability to trace product to the patient