



# St James's Proof of concept – NPC & EDI

**Presented by**

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**On Behalf of**

St James's Hospital, Dublin, Ireland

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# Agenda

*Proof of Concept for Master data alignment and electronic procurement/messaging*



1. Introduction
2. Background
3. Outline Proof of Concept
4. Current Status
5. Next Steps



*How GS1 Standards enable efficiency, visibility, safety & collaboration*





*"St. James's Hospital's fundamental purpose is the delivery of health treatment, care and diagnosis as well as health promotion and preventative services"*



# St James's Hospital - Overview



- St James's is the largest adult hospital in Ireland (1,000 beds)
- SJH is also an Academic teaching hospital providing clinical services at catchment, regional, supra regional and national level
- SJH hosts the National Centre for the treatment of haemophilia patients.
- SJH has already worked with GS1:
  - NCHCD – Track and trace of blood product for haemophilia patients
  - HSE National Sterile Instrument tracking solution



# What was the main driver for the Proof of Concept?





# St James's Hospital Background to request Oct 2011 – First email



- “The organisation has been using the **National Supplies Vocabulary (NSV)** since 1995 as both a coding system and standardised hierarchical nomenclature”.
- “We migrated our business process to the **SAP ERP** system in 2004”.
- “We started using **barcodes (code 128)** in **2005** in conjunction with full SAP GUI wireless devices”.
- “**The Hospital is actively considering a move to GS1** (products and services only) and therefore we have a number of questions..”



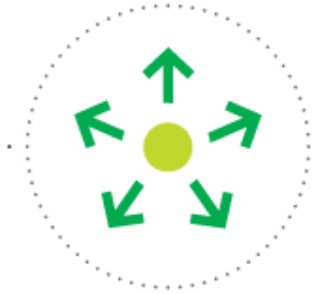
# Nov 2011 SJH meets with GS1



IDENTIFY



CAPTURE



SHARE



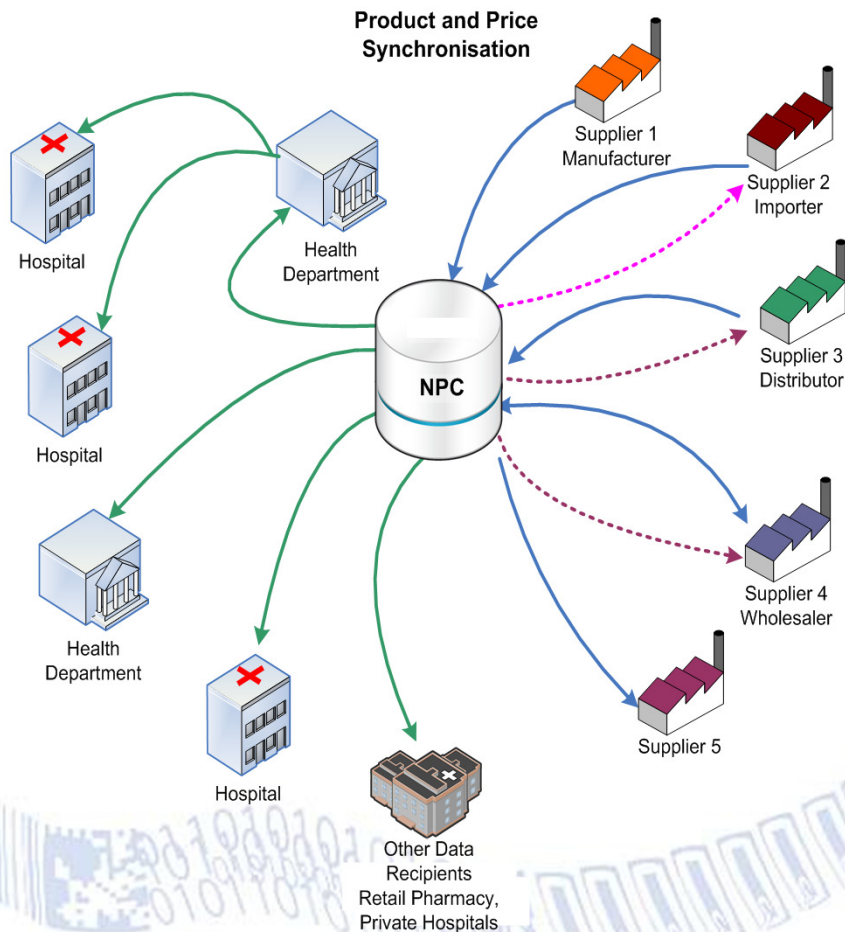
*Identify correctly, globally and consistently every time*



# How NPC could help?

## The Australian experience

The NPC enables synchronisation of product and pricing data for accuracy for both electronic procurement and product usage



The proposed National Product Catalogue solution for healthcare is

- a single repository of
- all product specifications
- procured by the Irish Healthcare sector
- and is replicable across industry sectors

Hosted by GS1





# Proof of Concept Definition





# SJH strategic objectives



## ▶ Embrace Global Standards to

- Reduce medical errors through GS1 based e-prescribing
- Facilitate EPR treatment documentation.
- Unique device identification
- Leverage experience in Haemophilia and HSSU
- **Increase efficiencies in Supply Chain** through the implementation and use of global standards
- **Capture additional information** such as lot number, batch number and expiry date
- Make a **substantial contribution** to a single national repository of master data for products and services



# Envisaged Solution

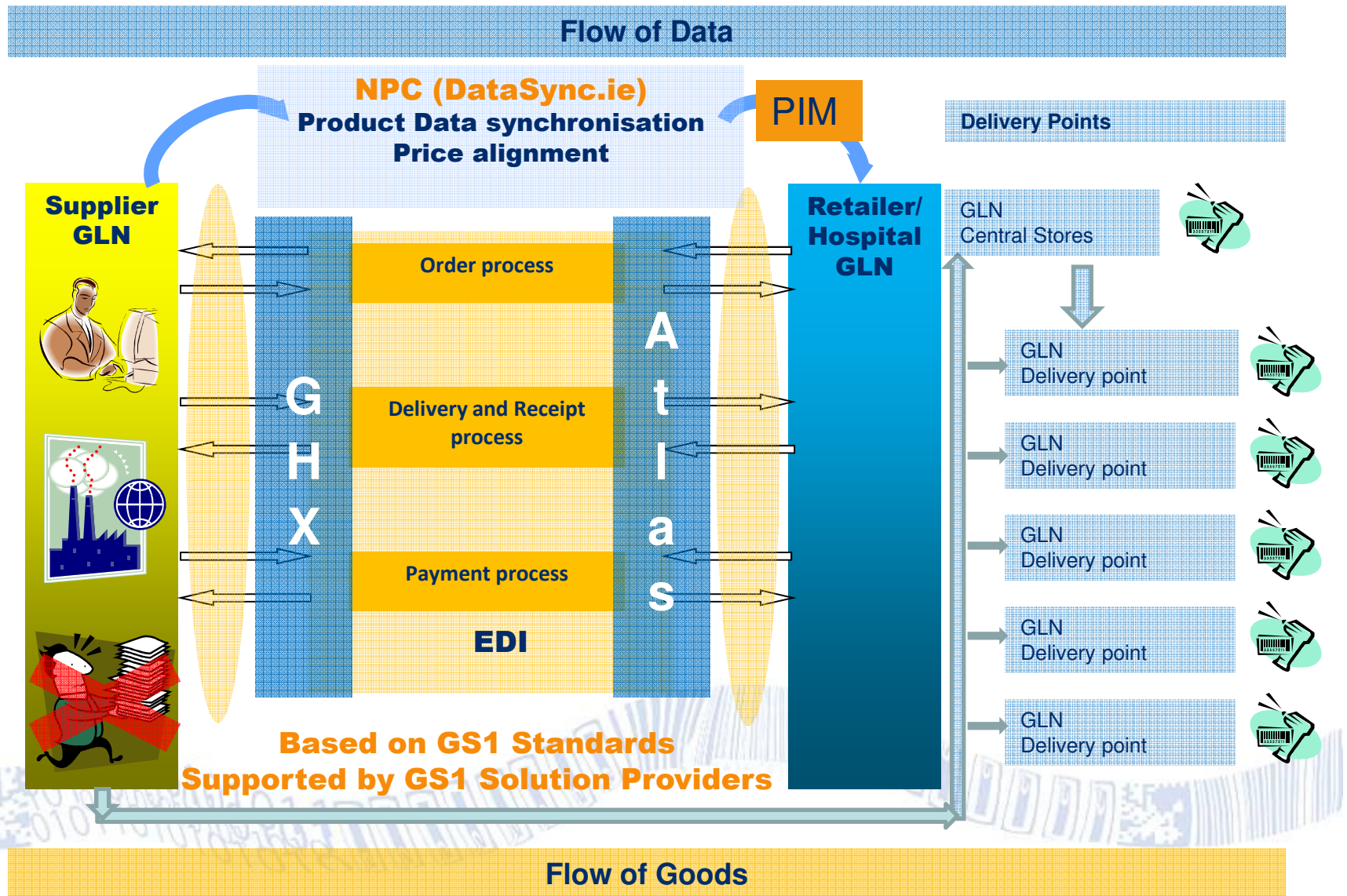


▶ Alignment and Synchronisation of **accurate product master data** between SJH and its supplier base using GS1, coupled with the deployment of secure, **standard EDI messaging** necessary to generate the required business transactions electronically.



# Integrated Solution

## Master Data (NPC) and Electronic messaging (EDI) based on GS1 Standards





# Proof of Concept Scope





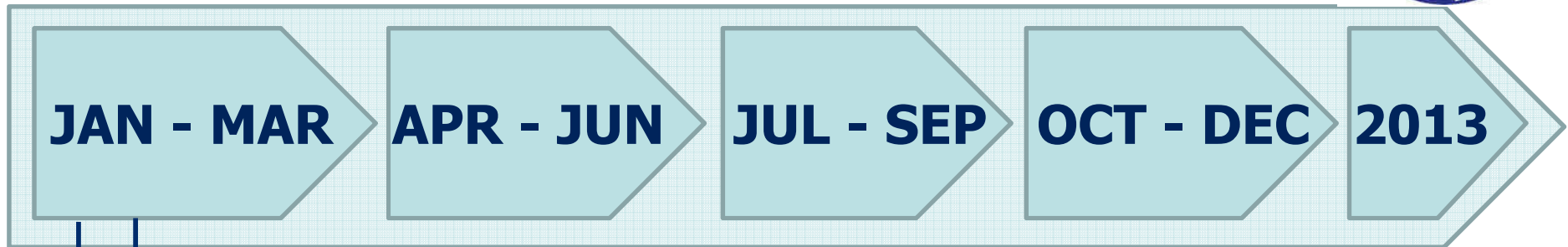
# POC Pilot Scope



The pilot will include the following key processes:

- Master Data Synchronisation via the **GDSN** (Global Data Synchronisation Network)
- Deployment of the **EDI messaging** suite – Order, Advanced Shipping Notice, Receipt Advice, Invoice
- **Labelling** of consignments (carton/pallet) with GS1 identifiers and barcode symbologies
- **AIDC** (automatic identification and data capture) at SJH to record receipt of goods and to complete the 3 way matching process to enable prompt payment.

**Next  
Phase**



Education  
Preparation

## Jan 2012

- Established a Steering Group (Core project team\*)
- Key stakeholders
- Weekly 30 min calls held every Wednesday

13<sup>th</sup> Jan  
POC  
Kickoff

9<sup>th</sup> Feb  
Supplier  
Workshop





# POC Pilot Key Participants



- **Project Sponsors**

- SJH CFO, GS1 Ireland CEO, Atlas Chairman

- **Core Project Team**

- SJH
  - Facilities Director, SAP IT Manager, 2 x Procurement Managers
- GS1
  - Director Healthcare ( **POC Independent Project Manager**),  
Technical Standards Manager
- Atlas Products (EDI POC Technology partner for SJH)
  - Country Manager for Ireland

- **Suppliers**

- J&J, Synthes, Medtronic
  - GHX was the EDI Provider for the 3 Suppliers - only one interface for the POC





# POC Pilot Scope Parameters



- 3 Suppliers (J&J, Medtronic, Synthes)
  - Sending Product master data for 5 GTINs via GDSN
  - Exchanging EDI messages for Order, Advanced Shipping Notice, Receipt Advice and Invoice using XML 3.0
  - Categories – special focus on orthopaedics, implantables, cardiology and radiology (consignment not included for POC)
  - Coding – GS1 coding and standards, NSV will coexist and will be maintained until full move to GS1 coding is possible



# POC Pilot Scope

## Outline of process steps



### – NPC

- Supplier uploads data via GDSN (Global Data Synchronisation Network)
- SJH receives data into PIM (Product Information Manager) and pulls into their internal ERP (backend system, SAP)

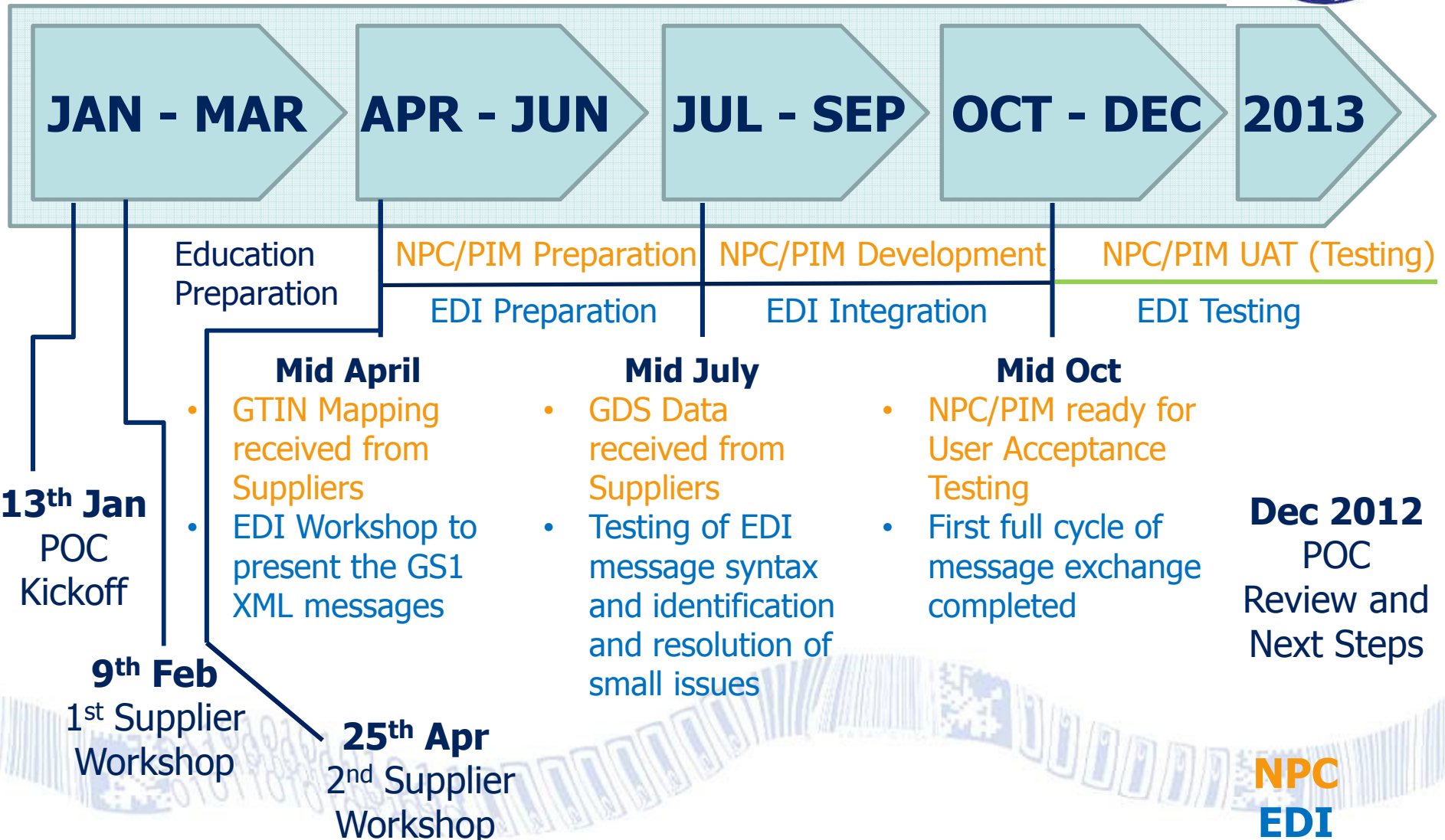
### – EDI

- PO (Purchase Order) is generated by SJH
- Supplier sends back an ASN (Advanced Shipping Notice)
- SJH acknowledges receipt with a RAN (Receiving Advice Notice)
- Supplier sends the Invoice





# POC Timelines - 2012





# Johnson & Johnson companies sync medical device data with SJH



## GDSN Response Message

### Message Header

Message Identifier: CDN\_2012-10-02-10-41-22.569-8797  
 To GLN: 0705038000007  
 From GLN: 1100001000562  
 Creation Date and Time: 2012-10-02T10:41:22.569+02:00  
 File ID: CDN\_2012-10-02-10-41-22.569-8797

### CIN Delivery Notification

Information Provider: 0705038000007  
 Name of Information Provider: **Johnson & Johnson**  
 Data Recipient: **5394101000010**  
**Global Trade Item Number**: 30705031081523  
 Target Market Country Code: 372  
 Target Market Subdivision Code:  
 Classification Category Code: 10005844  
 Description Short: SILK BLK 75CM M3 USP2/0 SGLE ARMED  
 Last Change Date Time: 2012-07-20T20:47:00  
 Trade Item Status: ADD  
 Party Receiving Private Data: 5394101000010

This information is provided on behalf of **GS1 Global Office**.

GLN	COMPANY	CONTACT
5394101000010	St. James's Hospital James's Street P.O. Box 580 ROI Dublin8	www.stjames.ie

Responder: 9501101020030, Responses: 1, RC: 0 (No error)





# Key Learnings so far...



- Core Team with Independent Project Manager (GS1)
- Finding the Champions
- Start small and keep it simple and in scope
- Patience
- Education
- Development work - The first few steps are the hardest and take the most time
- GS1 Standards are the key enabler



# Some Quotes from SJH..



- *“ It’s a pleasure to work with GS1. The local expertise is excellent and the ability to dip into the Global best practice experience on so many different subjects is fantastic, it has opened up a whole new world for us” Pat Bailey, SJH*
- *“In the current economic climate there is a constant pressure to cut costs, GS1 enables cost savings while achieving improved patient safety and increased efficiencies” Pat Bailey, SJH*





## Some Quotes from SJH..



- “The local and global *healthcare landscape is changing...there is a strong need for a **‘joined up thinking approach’** to enable the level of integration and interoperability required to support the secure flow of data and products from manufacturer, through the hospital and to the patient” Vincent Callan, SJH*
- “SJH sees GS1 as the foundation of efficient and cost effective solutions for patient safety and supply chain traceability in healthcare and SJH has set the adoption of GS1 standards as a strategic priority and want to lead in this area in proving a model for Irish Healthcare” Vincent Callan, SJH



# NEXT STEPS?







# Next Steps...



- Complete the POC
  - Testing for NPC (exchange more data on additional products)
  - Testing for EDI (exchange more messages with increased complexity)
- Position Paper (ROI)
  - To gain approval for full adoption
- Share – Create Awareness
- GS1 Ireland HUG – participation invited



# Call to Action



## For Suppliers/Manufacturers

- Help us make this a Success
  - SJH and the wider Irish Healthcare community want to work towards a National (NPC and EDI) solution based on GS1 Standards

*“SJH needs the support of Manufacturers and Suppliers to make this happen for Ireland and welcomes all support from Industry”*

Vincent Callan, SJH

## For Healthcare Providers

- The Power of One



Thank You



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