

EDI for accuracy and efficiency between partners in the Healthcare supply chain

Scott Mooney, Vice President Distribution Operations McKesson Corporation GS1 Global Healthcare Conference Noordwijk-Amsterdam March 2019

## **Today's speakers**

- Holger Clobes, Internal Senior Consultant eCommerce, B.Braun Group, Germany
- Dennis Black, Global Regulatory Operations, BD, US
- Greg Magrane, eCommerce Project Manager, St. James's hospital, Dublin, Ireland



## Our agenda

- 5 min intro Scott
- 15 min presentation Holger
- 15 min presentation Dennis
- 15 min presentation Greg
- 20 min Q & A from the audience Facilitated by Scott
- 5 min close Scott





## An important EDI Announcement



- This morning, GS1 and OpenPEPPOL signed a memorandum of understanding in which they:
  - Acknowledged the important roles played by their respective organisations in supporting electronic business.
  - **Committed to developing a closer working relationship** as they both recognise the value of cooperation in the field of supply chain standards and technologies directly or indirectly related to their relative scopes of work.
  - Agreed to work towards positive endorsements of each other's core technologies, standards and certifications and will promote their mutual recognition to third parties.

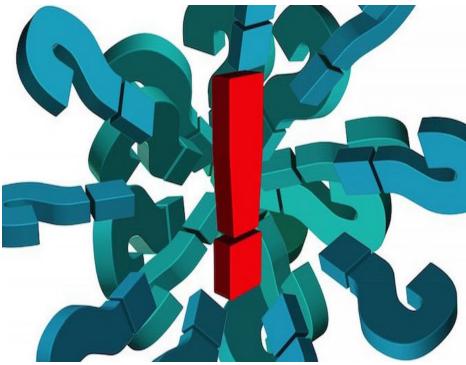
OpenPEPPOL enables businesses to easily trade electronically with public sector organisations in pre-award and post-award procurement processes.



## For questions from the audience we will use Slido

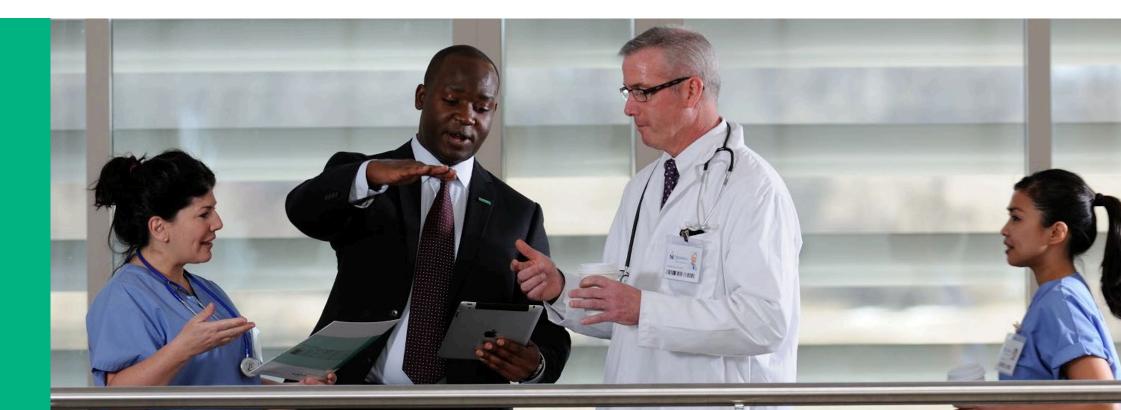
# You can post questions at any time throughout the session!

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- 2. Enter **#GS1HCNoordwijk**
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- 6. Post your questions!









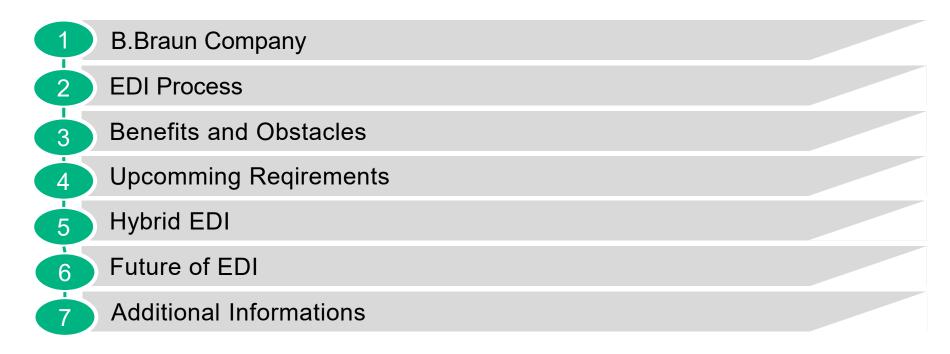
#### PANEL III - EDI FOR ACCURACY AND EFFICIENCY BETWEEN PARTNERS IN THE HEALTHCARE SUPPLY CHAIN EDI @ B.BRAUN

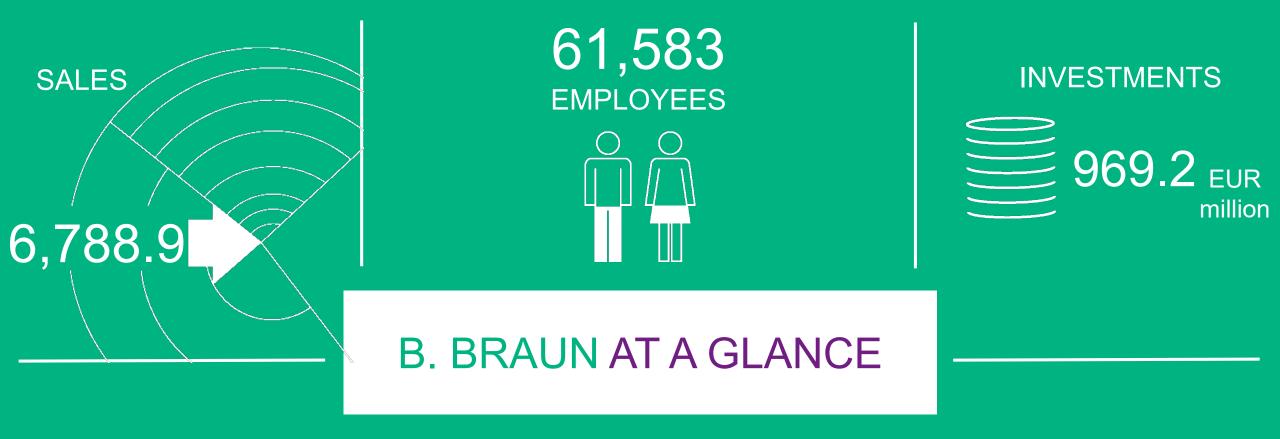
Holger Clobes

Amsterdam NL / GS1 Healthcare Conference 2019, 12 February 2019



#### Agenda







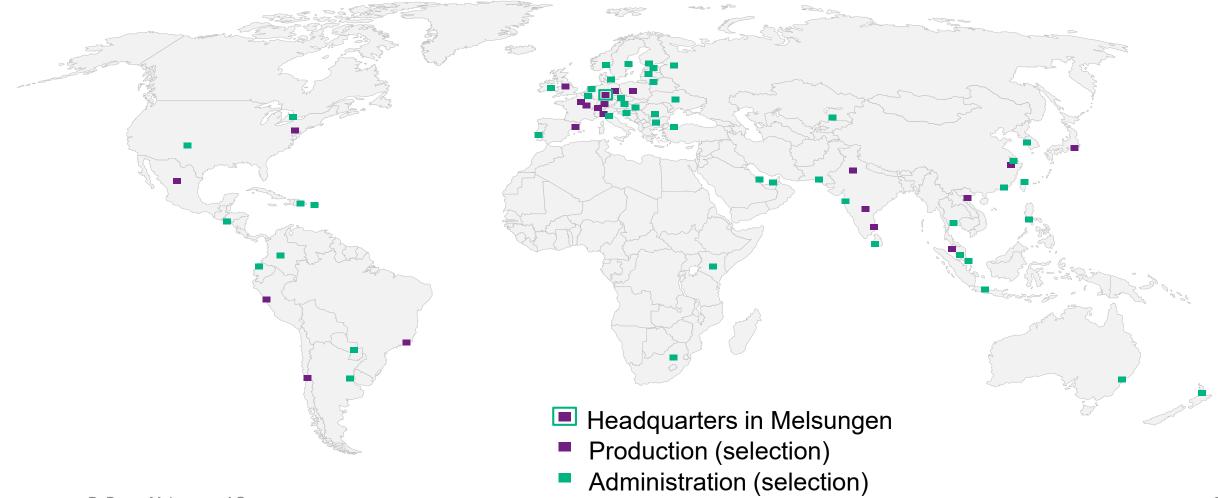
CORPORATE SOCIAL RESPONSIBILITY PROJECTS



## RESEARCH AND DEVELOPMENT ACTIVITIES 352.0



### We have subsidiaries in 64 countries.



## Worldwide EDI rate B Braun

(Basis Orders, Standardized EDI)

R-

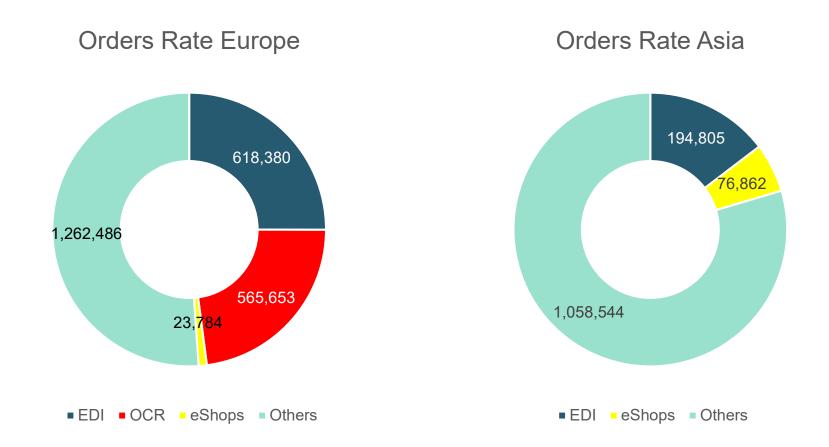
High EDI Rate (Over 50 %) Mid EDI Rate (Over 30 %) Low EDI Rate

No EDI

**BRAUN** 

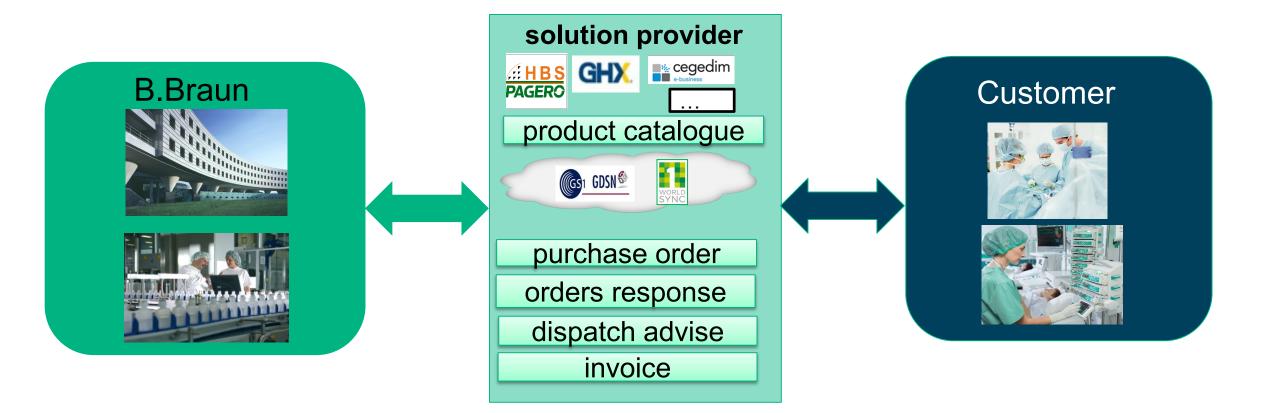
**CHARING EXPERTISE** 

Orders rates in Europe and Asia (Basis: 2018)





### Order To cash EDI process between B. Braun, providers and customers



A lot of the EDI traffic is done by solution provider. But starting with new technology, hybrid EDI and specially for invoice (B2B/B2G) direct communication increases. Also more and more legal requirements are coming up.



### **Benefits of EDI**



#### □ Cost saving

-> More time for employees to do other important tasks

□ More process quality

-> Less errors are also related to the other topics

□ More speed in process

Reduce effort for routine tasks

□ More transparency in the process



### **Obstacles of EDI**



□ Master data challenges

- -> Incorrect, not accurate, not up to date or not the same master data on both sides
- ❑ No use of identification standards
  → such as GLN or GTIN
- Benefits are not clear for decision makers
- □ To many message based standards →(EANCOM,GS1\_XML,CEFACT\_XML, UBL, ....)

□ Most standards and solutions are sector related

Dependency from solution providers

□ Unclear of future of EDI

 $\rightarrow$  New technologies (web Services, API, Block chain, ...)



### Upcoming requirements



□ Increase master data quality (exchange)

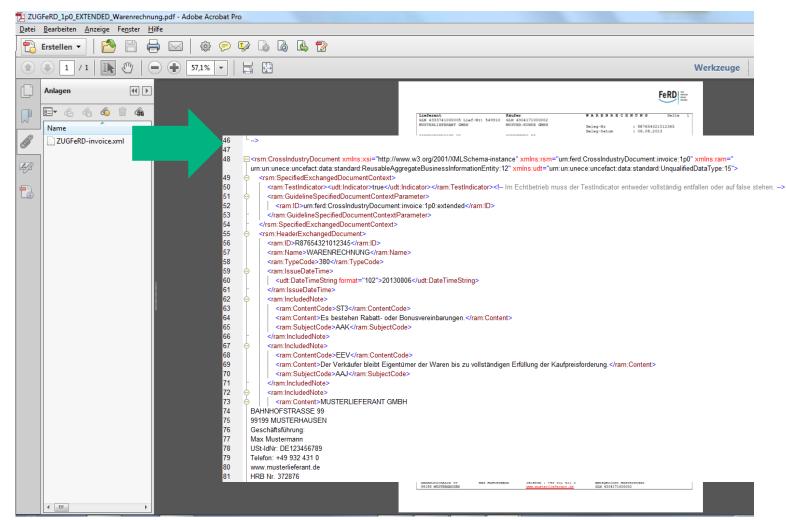
□ Increase use of order to cash process

- ❑ New "costumer to contract process" with EDI
  → (eTendering, Peppol: pre award process)
- Exchange of price data
- □ Interoperability between different standards
- Use new technology in parallel
- □ Standardize content of different standards
- □ One organization for different standards

Legal requirements will be driver

## Hybrid EDI – Example ZUGFeRD





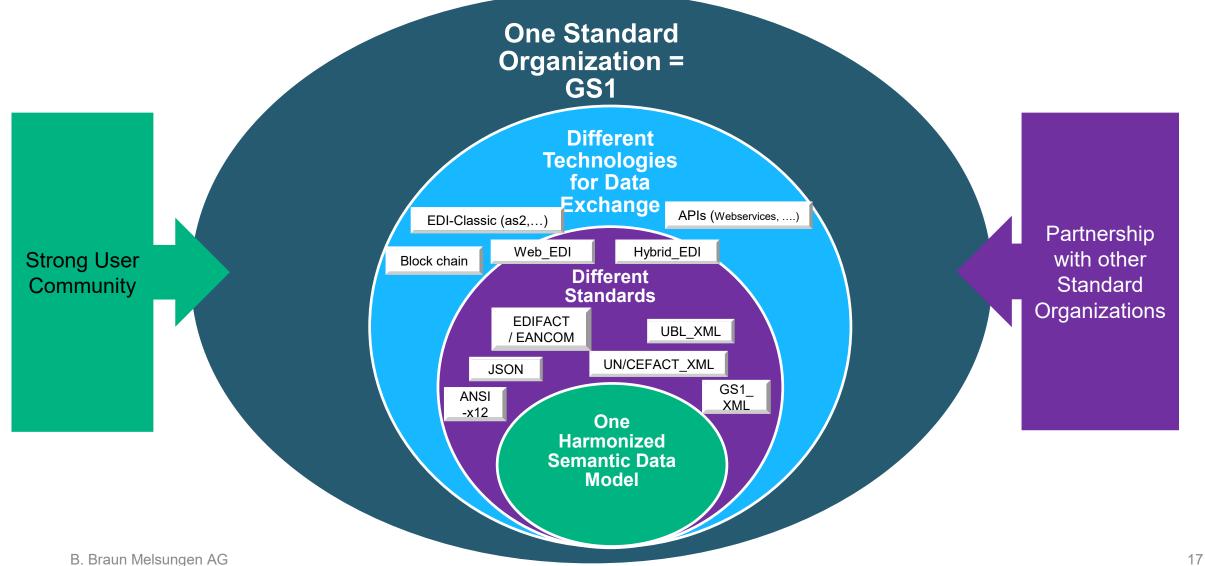
- Hybrid EDI includes a structured file (Standards like: CEFACT\_XML, EDIFACT, UBL\_XML,....) in a PDF document
- Company's who are able to work with the EDI file can do it, the others can work with the PDF document
- For very complicated processes (e.g. checking of invoices in detail) it is not necessary to it with EDI for you can use the PDF in addition

→ More information:
 https://www.gs1-germany.de/
 gs1-solutions/edi-praxis/zugferd/

B. Braun Melsungen AG



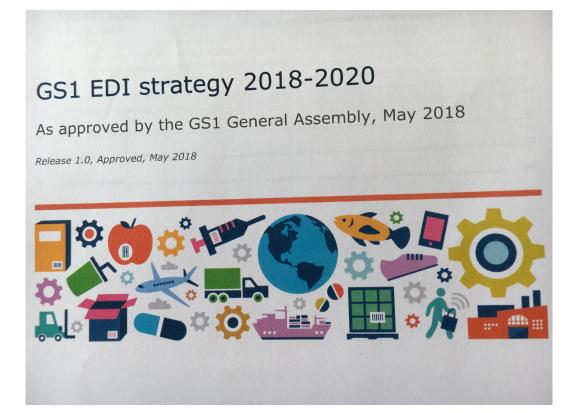
## Future – What will be the way forward for EDI





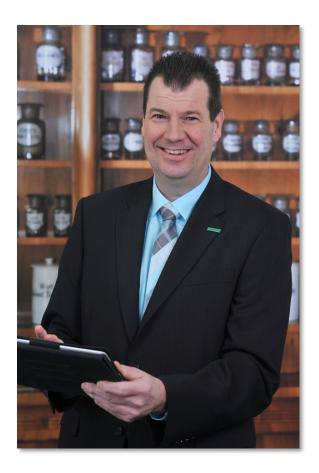
### More Information about EDI on website of Global Office







#### Thank you for attention !



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# EDI for Accuracy and Efficiency between partners in the Healthcare Supply Chain

## GS1 Healthcare Meeting: Noordwijk Netherlands

Dennis Black

Special thanks to Karen Conway and GHX for sharing metrics and insight on the US EDI Market. The metrics on adoption presented in this presentation were provided by GHX.



## **US EDI Market for Medical Devices**

- It is estimated that 85% of Medical Device expenditures in the US are purchased via EDI
- In many cases the industry has moved from individual partner-topartner transactions to a common platform
- More that 600 suppliers and 4,100 hospitals participate in EDI via a single company



## US EDI Market: Device Types

- Disposable/Consumable medical devices are ideal for EDI
- Implants and other products selected by physicians are increasingly purchased via EDI
- Capital equipment is less likely to be purchased via EDI
- IVDs, RUO, and other lab products may be purchased direct (depends on the category)

EDI is best for repeatable transactions without variable rules or conditions.



## **Sunrise Dates**



We have some history and experience using standards in EDI Transactions.

## **Sunrise Dates**



We have some history and experience using standards in EDI Transactions.

## EDI/GS1 Success

September 15, 2008, Seton
 Family of hospitals began
 purchasing products from BD via
 EDI using GS1 standards.



#### A GS1 Healthcare US<sup>™</sup> Success Story

Seton Family of Hospitals and BD Use

**GS1 Standards and Processes to Reduce** 

EDI Errors in Pursuit of "Perfect Orders"





On September 15, 2008, Seton Family of

Hospitals (member of Ascension Health)

placed an order for BD™ Sharps Collectors.

However, this was no ordinary order. This

was the first documented transaction

between a major healthcare system and

supplier using an integrated set of GS1

standards and GS1 US standards-based

Identification of Seton Family of Hospitals

Identification of BD products: GS1 GTIN

Storage and listing of Seton GLN: GLN

Storage, validation and sharing of product

Ascension Health supply chain, Seton Family

effectiveness, validated that GS1 standards

transactions. The lessons learned will quide

future system requirements and outline the

steps required to implement GS1 standards

Data Interchange (EDI) transactions signified

a milestone for Ascension Health and BD in

their pursuit of the "Perfect Order." Ascension

successfully throughout healthcare. The

conversion to GS1 standards in Electronic

Health, BD and other market leaders

who have studied the use of standards

are confident that full adoption of GS1

efficiency by reducing rework, boosting productivity and supporting patient

standards will enhance supply chain

safety initiatives.

This first transaction, the joint effort of

of Hospitals and BD to implement GS1

standards to improve transactional

could be used today in healthcare

Synopsis

solutions

locations: GS1 GLN

**Registry for Healthcare** 

information: GS1 GDSN



#### GS1 STANDARDS USED

GS1 Identification Global Location Number (GLN) Global Trade Item Number<sup>®</sup> (GTIN<sup>®</sup>)

#### GS1 Barcodes

GS1° & GS1 US™ Solutions GLN Registry for Healthcare<sup>®</sup> Global Data Synchronization Network<sup>®</sup> (GDSN<sup>®</sup>) 1SYNC<sup>™</sup> (GDSN-certified Data Pool)

#### MEMBER PROFILES

Ascension Health is the nation's largest Catholic and nonprofit health system. Ascension Health serves patients through a network of

hospitals and health facilities providing acute care services, long-term care, community health services, psychiatric, rehabilitation and residential care. Ascension employs over 106,000 associates in facilities across 20 states and the District of Columbia.



company that develops, manufactures and sells medical devices, instrument systems and reagents. The Company is dedicated to improving people's health throughout the workl. BD is focused on improving drug delivery, enhancing the quality and speed of diagnosing infectious diseases & cancers, and advancing research, discovery, and production of new drugs and vaccines. BD's capabilities are instrumental in combating many of the world's most pressing diseases. Founded in 1897 & headquartered in Franklin Lakes, New Jersey, BD employs over 28,000 people in approximately 50 countries around the world.



#### The Challenge

Ascension Health manages pricing & product information for 445 locations. Accurate product information in systems and transactions is essential in order to maintain sufficient, reliable supply levels for "just in time" inventory management. In past transactions between Seton Family of Hospitals and BD, both parties were identified with proprietary numbers: Seton Family of Hospitals with a BD-assigned SAP "Ship to" number and BD with a Seton-assigned item master "Supplier" number. For products, Seton Family of Hospitals was creating new proprietary product numbers for BD products using ID numbers from GPOs, distributors or BD catalogs and price lists. Assigning proprietary numbers that do not translate across the supply chain is a common practice of the healthcare industry. In addition, current data cleansing processes require significant resources. Incorrect data can create a variety of errors that result in costly rework. Ascension Health recognized that using GS1 data standards would improve supply chain efficiency.

#### "The Perfect Order"

The Ascension Health/BD story is not unique. All too often, suppliers and providers spend precious time and resources fixing imperfect orders (e.g., pricing issues, unit of measure mistakes, shipping errors, etc.). As a result,

Ascension Health's goal is to create a "perfect order" to ensure that the needed products are available for patients and staff – every time, all of the time. Chis McGoad Database Administrator, Ascension Health

🍪 BD

## **GLN Adoption: Stable Adoption Levels**

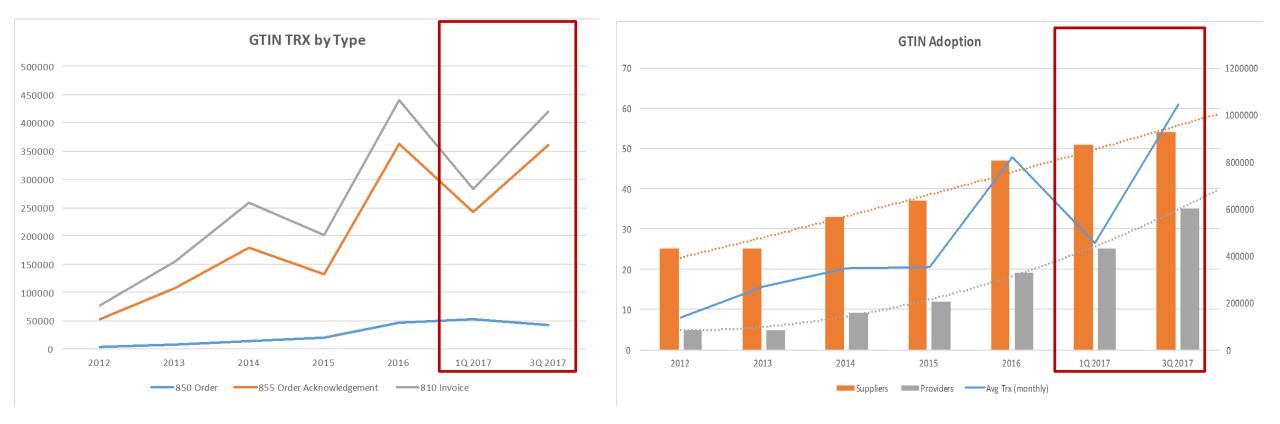


#### Since 2016:

- 10% increase in transaction volume
- 15% increase in both provider and supplier organizations



## GTIN Adoption: Increasingly Rapidly



#### Since 2016:

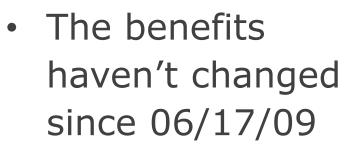
- 16% transaction volume increase
- 84% increase in providers; 15% increase in suppliers



## Benefits in using GS1 Standards in EDI

## **Benefits**

IIII No Unit of Measure EDI Errors IIII No Confusion or Errors on Ship-to Locations IIII Perfect Alignment on Contract Eligibility IIII No Synchronization "Work Around" Processes IIII One Source for Product Data IIII Clarity on Manufacturer ID IIII Provides accurate descriptions (expiry, clinical attributes...)







## Challenges with adopting GS1 Standards in EDI

- Inability of older Healthcare Provider ERP Systems and MMIS to "hold and process" the standards
- Next Generation (cloud-based) ERPs much more "standards ready"
- The will to align data, test, and validate transactions
- GHX will be introducing what it calls "intelligent business rules" to aid in the process



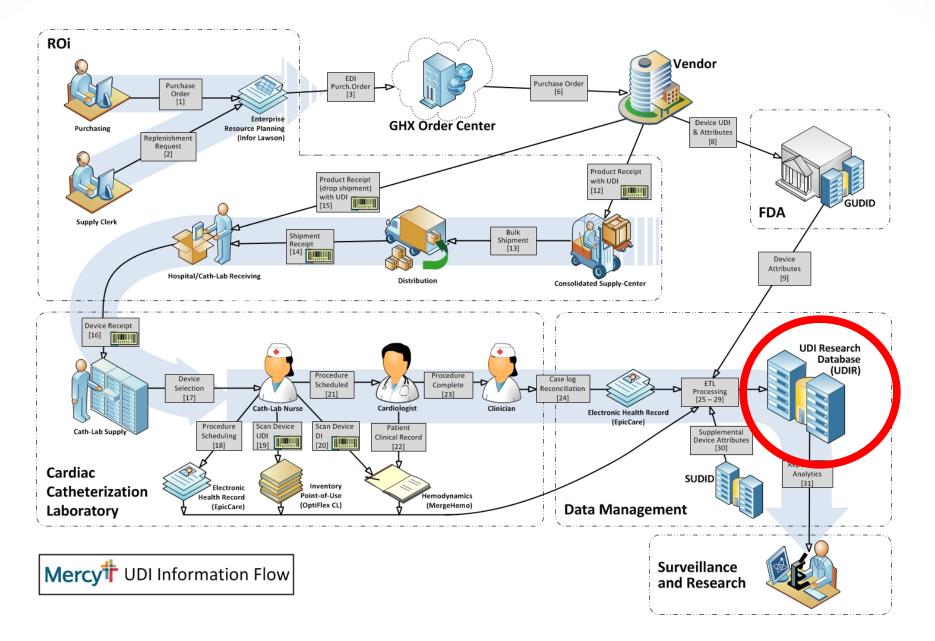
## Increasing the use of GS1 Standards in EDI

- More "Validated" GLNs
- Commonality in GLN Hierarchies
- GTIN/Item Master: Reconciliation and Clean-up
- Will Power

Clinical use and POC scanning of GS1 Standards seems to be further enabled by holistic supply chain usage.



## UDI Demonstration Project - Information Flow Mercy Technology Services





# Breaking the Mould for Purchase to Pay at St. James's Hospital

Greg Magrane





## **St James's Hospital**



- 60 Acre Campus
  - €440m

- 1,000 beds
- 25,000 IP Discharges
  - 48,000 Day Cases
  - 280,000 OPD
- Largest Academic Teaching Hospital in Ireland
  - Focus on innovative projects
- Robotic Dispensers installed in pharmacy 2017
- Electronic Patient Record (Go Live Oct 2018)



Concernance of the local division of the loc

## **Evolution Of a Medical Campus, "Shared Vision"**





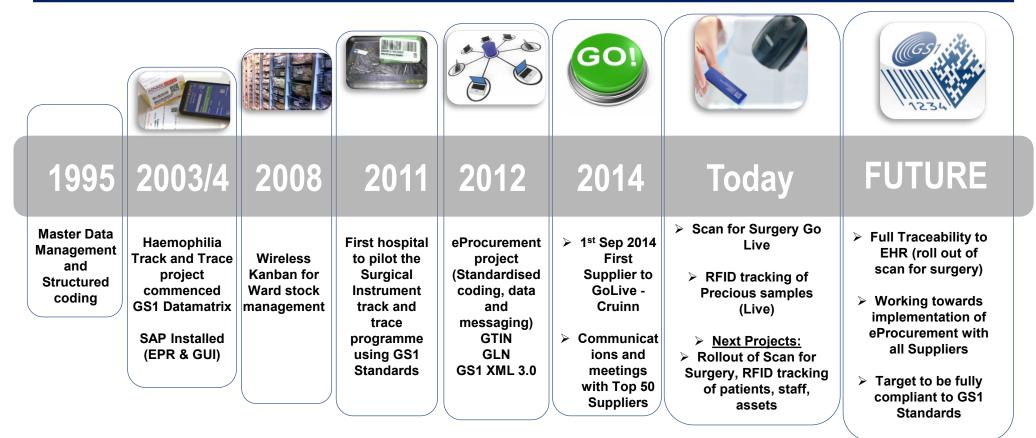


NCH

National Children's Hospital



#### **Business Process Innovation: Implementing GS1 Standards**





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## **On-going Projects**





#### Automatic tracking (RFID)

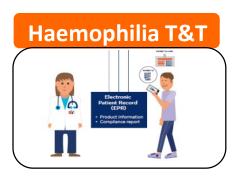


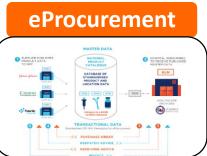




SJH Healthcare Campus









## **Drivers for Standardisation**

#### Obstacle

- Lack of standardised product identification (and unit of measure)
- Lack of standardised location
  identification
- Multiple product catalogues
- Inaccurate and inefficient procurement practices

#### Solution

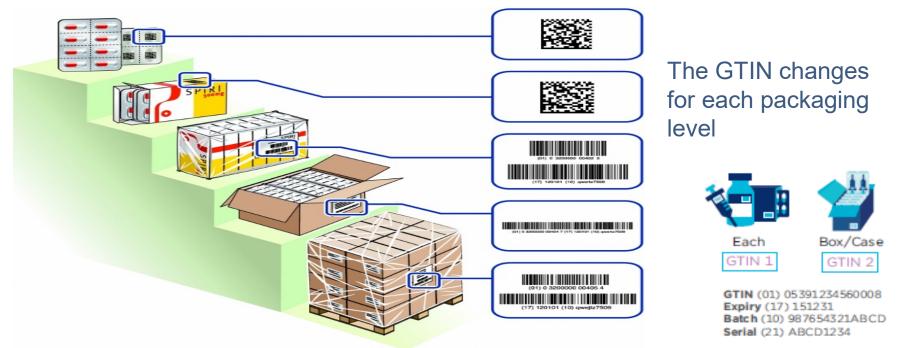
- Use GS1 Global Trade Identifier GTIN
- Use GS1 Global Location number GLN
  - Who we are, Who you are, Where to deliver
- Single Product Catalogue NPC
- Automated messaging using EDI that incorporate standard identifiers GTIN, GLN
  - Purchase Order (Starting point)
  - Advance Shipping Notice
  - Receiving Advice Notice
  - Invoice



<u>a</u>ba



## The Correct Association of the UOM is Crucial



All levels of packaging from the individual unit to the case should be regardless of whether it is sold commercially



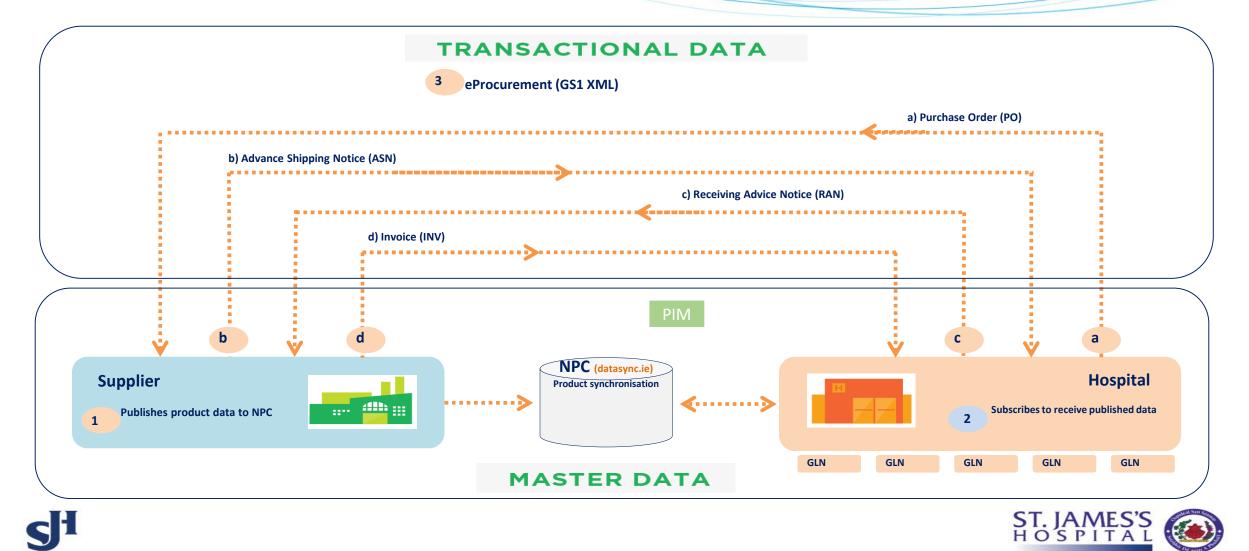


### **GDSN and EDI – Proof of Concept Overview**

- Suppliers (Suppliers (J&J, Medtronic, Cruinn Diagnostics, Cook Medical)
- Sample of Products per Supplier (GTIN, GLN)
- Standardised data = NPC
- Standardised EDI messaging (GS1 XML)
  - □ Order (PO), Advanced Shipping Notice (ASN), Receiving Advice Note (RAN), Invoice (INV)
- Full integration into backend ERP (SAP)
- Key SJH Partners: GS1, GHX



### "The Perfect Order"



## Awards, Accolades and Recognition

- SJH Best Conceptual Business Design, GS1 Global Healthcare Conference
- Cruinn Diagnostics Innovation in Supply Award, Irish National Procurement Awards
- Cruinn Diagnostics Supplier of the Year Award, National Procurement Awards 2014
- SJH E-Procurement Excellence Award, National Procurement Awards 2015

#### All achieved by

- Standalone hospital, no support for this project from government departments or agencies
- No mandate to suppliers / trading partners
- No budget



## elnvoicing at a National Level



90% of all HSE invoices electronically by 2020

"Member States shall ensure that contracting authorities and contracting entities receive and process electronic invoices which comply with the European standard on electronic invoicing"

**European Directive 2014/55/EU** 









## **Lessons Learned, Recommendations**

- Selection of EDI solution provider (change of EDI provider)
- Standardised File Formats & Messages
- Relationship with Suppliers
- Suppliers are your GTINs allocated to and barcoded on each packaging hierarchy?
- Testing Strategies
- Buy-In from all stakeholders
- Suppliers weren't ready and many are still not ready
- Data matching between hospital and supplier is not easy (product codes and hierarchy)
- SJH First Irish hospital to lead on this but many suppliers are waiting for a national approach





## **Steps to Encourage Suppliers**

Become involved by

- making the commitment
- committing resources to the project
- engaging with SJH project team
- joining GS1 (if not already member)
- publishing product data to NPC
- contacting SJH and collectively assessing EDI capabilities







## Thank You !!

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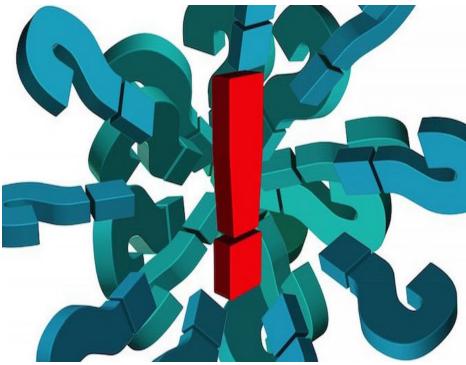




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38

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38 38 38