GS1 Healthcare Conference 2010

From paper to RFID
A Brief History of Time

Geneva 22\textsuperscript{nd} June

Graham Medwell,
e-Business Manager, Leeds Teaching Hospitals NHS Trust
Data Standards Lead, National e-Enablement Group
GS1 UK Healthcare User Group Member
GHX UK Product Council Member
The Big Bang

- **1999**
  - Development of in-house SPAMMIS
  - Materials Management Target Areas – AIDC
  - KPI’s agreed for measuring success

- **2000** – Strategy approved by Trust Board
  - SPAMMIS roll-out
  - Catheter Lab Project – bar coding
  - JnJ e-commerce project – valuable experience

- **2001**
  - SPAMMIS / Oracle integration
  - e-Commerce in Action Project
    - Global Healthcare Exchange
  - Vision
    - Deliver patient value by increasing purchasing efficiencies and transforming the way we work with customers, suppliers and Healthcare partners.
E-Commerce in Action Project

- **2002**
  - First hospital in Europe to trade through GHX
  - e-Commerce in Action Conference in Leeds - Lord Hunt as keynote speaker

- **2003**
  - HSJ Awards 2003
    - Winner – Improving Patient Care through e-Technology
    - Runner-Up – Partnership with Industry
  - Radiology Project

*While the NHS grapples with its e-procurement plans, The Leeds Teaching Hospitals has already made the leap*.  
*Healthcare Finance Journal – May 2002*
2004 – Looking Back, Going Forward

- Need for Data Standards
  - Measuring Success – Touchless Order
- National Finance & e-Commerce project scrapped
- Oracle 10.7 required update – SBS
- e-Sourcing
- Contract & Catalogue Management
- Inventory Control roll-out plan
- Receipting
- e-Invoicing
SPNet Radiology Track and Trace

Select Patient via Attendance Number

Display Products used in Attendance

Real time data linking CRIS patient details to attendance and product details in RadStock through to Oracle 10.7 financials & purchasing.
DH Coding for Success

- Patient Safety
  - Healthcare needs standards

- Connecting for Health
  - GS1 – Global Data
    - GTIN
    - GLN
  - Healthcare User Group
National e-Enablement Programme

- National program launched November 2007
- Stakeholders from
  - NHS Trusts/Hubs/PCTs
  - Suppliers
  - Technology Providers
- Promote best in class enablement processes and solutions
- Agree standards to facilitate e-Enablement
  - GS1
  - Classification
    - eClass mapped to UNSPSC, Expense types, TFR3
  - Supplier Coding
    - Dun & Bradstreet
  - Transactional standards in e-Commerce
    - XML
<table>
<thead>
<tr>
<th></th>
<th>Leeds e-Toolkit</th>
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<tbody>
<tr>
<td>1</td>
<td>Sourcing</td>
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<tr>
<td>2</td>
<td>Catalogue Management</td>
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<tr>
<td>3</td>
<td>Demand Management</td>
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<tr>
<td>4</td>
<td>ERP</td>
</tr>
<tr>
<td>5</td>
<td>e-Commerce</td>
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Current Projects

- Continuing roll-out of Demand Management
  - Target top 50 requisition points
  - Powergate Inventory
  - Electronic Dispensing Cabinets
  - New Top-Up handheld devices
  - Web Requisitioning

- GHX Nexus / Exchange
  - Target top 100 suppliers – supplier managed catalogues
  - Links to GDSN
  - Tariff items
  - e-Invoicing

- SPaCE Project (Case Study to follow)
- RFID of Ortho Kits (see Case Study)
- Global Location Number Project (Case Study to follow)
GLN Project

- A global location number (GLN) is used to identify any location (physical or legal) that needs to be uniquely identified in the supply chain.

- GLNs are 12-digit numbers plus a final check digit.

5055218800008     Primary GLN - Leeds General Infirmary

- External facing

- Project Stakeholders
  - Leeds Teaching Hospitals
  - NHS Supply Chain (Distributor)
  - Bunzl (Distributor)
  - GHX
  - Covidien
  - Johnson & Johnson
  - GS1
Data Quality – NHSSC

- 46 duplicates (92 records) in Oracle
  - Matched to NHSSC
  - Some already inactive in Oracle

- Difficulty at point of use
  - 6 digit transfer or requisition point now includes alpha and numeric characters
    - 620008
    - 62000B
    - 620005
    - 62000S
Bunzl – no standards

- 254 delivery points in last 12 months
- Over half duplicated
- Incorrect descriptions –
  - Renal Satellite units not using electronic trading
  - Louise Patterson !!!
- Back Office Work
  - Dump cost centre codes
  - Data cleansing
  - Validation

<table>
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<tr>
<th>Code</th>
<th>Description</th>
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<td>603115</td>
<td>BEESTON RENAL SATELITE (JEFF)</td>
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<td>BEESTON RENAL SATELITE (PALLETS)</td>
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<td>603115</td>
<td>BEESTON RENAL SATELITE UNIT</td>
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<tr>
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GLN Messaging using the GHX Exchange

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<tr>
<th>From Reference</th>
<th>From Value</th>
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<th>To Value</th>
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Wharfedale

Integrated Supplier

NHS SC
Catalogue & Contract Management

- Customer-specific Catalogues with Pricing
- Supplier Managed Catalogues
- Full Supplier Catalogues
- National, Regional, Local Contracts
- Content Distribution Network

- Global
  - GTIN
  - Bar Codes

- Local
  - Pricing
  - Local excluded devices
Content Distribution Network

Fully Integrated Suppliers

GTIN = Global
Bar Codes = Global

Pricing = National
Excluded Devices = National
<table>
<thead>
<tr>
<th>Year</th>
<th>1999</th>
<th>2004</th>
<th>2010</th>
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<tr>
<td>Supplier Base Rationalisation - PO</td>
<td>2,459</td>
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<td>5,654</td>
<td>4,405</td>
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<td>Items in Catalogue</td>
<td>3,063</td>
<td>167,297</td>
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<tr>
<td>Supplier Managed Catalogue</td>
<td>NIL</td>
<td>NIL</td>
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<tr>
<td>Receiving Points</td>
<td>40+</td>
<td>6</td>
<td>6</td>
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<td>50</td>
<td>240</td>
<td>270</td>
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<td>£1m</td>
<td>£12m</td>
<td>£19m</td>
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<td>247,926</td>
<td>581,566</td>
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<td>NIL</td>
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<td>£7.1m</td>
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<tr>
<td>Autofax Purchase Orders</td>
<td>85%</td>
<td>94%</td>
<td>27%</td>
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<tr>
<td>EDI, XML, E-mail</td>
<td>NIL</td>
<td>5%</td>
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<td>PO Matched Invoices</td>
<td>68%</td>
<td>74%</td>
<td>93%</td>
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<td>Goods Receipting</td>
<td>&lt;1 hour</td>
<td>&lt;1 hour</td>
<td>&lt;1 hour</td>
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<td>Cash releasing savings cumulative</td>
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<td>Electronic tenders issue &amp; receipt</td>
<td>NIL</td>
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<td>4,521</td>
<td>60,920</td>
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<td>50,805</td>
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<td>109,859</td>
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<tr>
<td>Purchase Order Lines per order</td>
<td>2.16</td>
<td>2.24</td>
<td>2.84</td>
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<td>NIL</td>
<td>£4,918</td>
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<td>Spend Influenced</td>
<td>£65m</td>
<td>£107m</td>
<td>£210m</td>
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<tr>
<td>Number of Contracts</td>
<td>?</td>
<td>624</td>
<td>720</td>
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</table>
- Number of suppliers down 37%
- Number of Purchase Orders Placed down 17%
- Average Lines per Purchase Order up from 2.16 to 2.84
- Number of Invoices Received down 5%
- Average Lines per Invoice up from 2.89 to 3.17
- Lowest cost per invoice in NHS Benchmark for Acute Hospitals
So what do we save through all this technology?...

Total Savings = £6.0m
Our Experience

☐ The savings are ONLY realised through expert support at hospital level.

☐ Service level agreements with customers before work commences.

☐ Continuous improvement project implemented and owned at senior level in the hospital.

☐ Short sharp focussed projects – ‘step to step’.

☐ Rigorous benefits measurement.

☐ Accurate clean data is the backbone.
AIDC in Healthcare...

☐ Your hospital gift shop scans bar codes for Coca Cola and bars of chocolate.

☐ Do they scan wristbands and medications for a match?

☐ If not, ask “Why?”

  ■ Mark Neuenschwander

☐ Thank you for listening…

  ■ graham.medwell@leedsth.nhs.uk