



Supporting the transition to a sustainable healthcare system

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#bettercarecostsless

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GS1 UK Healthcare Conference 2025, London, 30 April 2025



BD – Who Are We?

BD is one of the largest global medical technology companies in the world and is *advancing the world of health™* by improving medical discovery, diagnostics and the delivery of care.

One of the global medical technology leaders

Founded in 1897 with a history of making an impact on health



Present in 190+ countries

More than 75,000 associates



Over \$1 billion in annual R&D investments

Innovation, advancement, exploration



Key Challenges Facing Healthcare Providers

Driving Patient Outcomes/
Patient Safety



Recruiting and Retaining
a Skilled Workforce



Managing Increasing
Cost/Complexity



Patients



1/10 patients continue to be harmed from safety lapses during their care¹



1/15 acquires HAIs²
(Acute Care hospitals)



1,3 million sepsis cases in EU³



2-14% of patients entering a European hospital are subject to medication errors.⁴

Healthcare workers



4,1 million Expected shortages of staff in EU-28 by 2030⁵



40% of medical doctors are close to retirement age in EU and Central Asia⁶



4.7 million new nurses will have to be educated globally⁷



5-10% of staff absences due to healthcare workers safety hazards¹²

Systems, workflows, procedures



15% of hospital expenditure in OECD countries are attributed to treating safety failures⁸



>50% of pharmacists' working time is spent on tasks considered to be non-value adding⁹

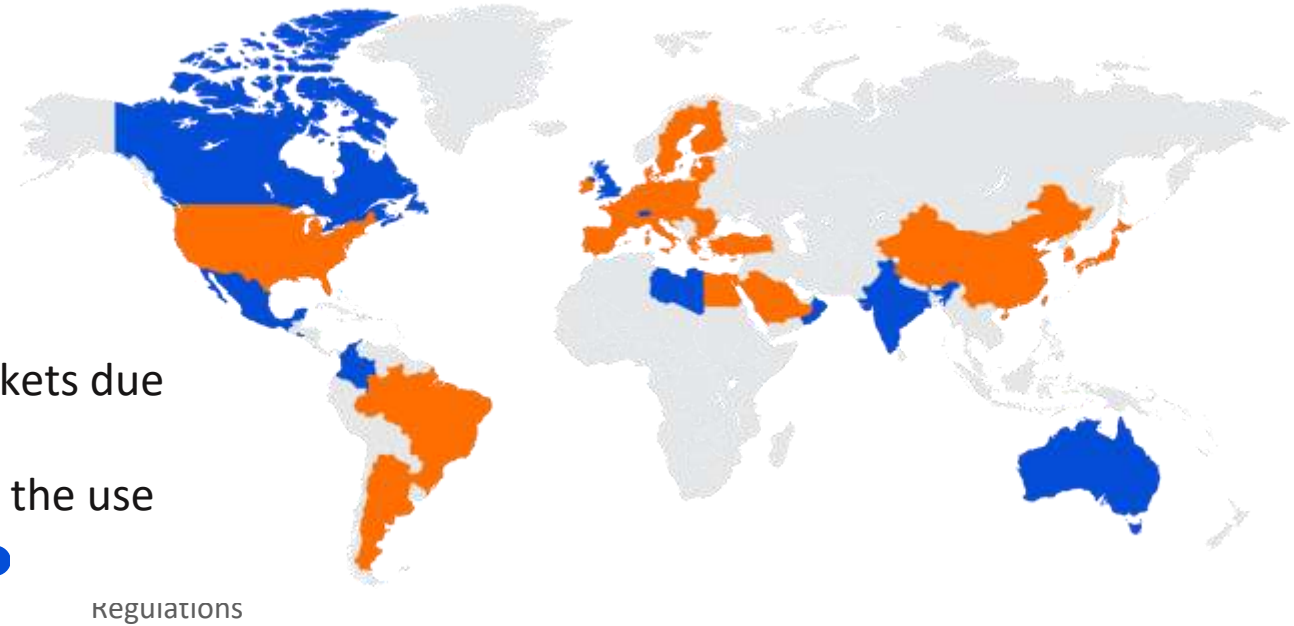


Up to 20% of health spending could be channeled towards better use¹⁰



181 626 additional bed-days and over £98million costs due to avoidable Adverse Drug Events in the UK¹¹

Healthcare and GS1



Current Landscape

- We now have regulated use of barcodes in many markets due to UDI regulations
- Customers in some markets (UK - NHS) have required the use of GS1 standards

- Many device **manufacturers** have made excellent use of GS1 standards for their own supply chain purposes (and have made tremendous investment in ERP, PIM systems, etc., to manage the use of GS1)
- Some **healthcare providers** are making excellent use of the GS1 standards for supply chain and clinical purposes

Future Landscape

- We should expect that the MDR/IVDR regulation should have a profound impact related to the use of GS1 standards in healthcare
- We should expect that more markets will introduce UDI regulations

Examples of How GS1 Can Help Improve Healthcare Systems – Patient Safety

A closer look at BD Cato™ Pharmacy



On-screen
workflow
guidance



Barcode
verification and
image capture



Gravimetric
verification



Hard stops
with correction



Remote
checking



Inventory
Management



Automated
documentation



BD Cato™ is an integrated software solution that provides support throughout all stages of therapy: from long-term prescription planning to the preparation and the administration of cytotoxic drugs and other critical substances.

Medication Safety

BD Cato™ helps intercept drug and dose errors via gravimetric analysis workflow with hard stops, ensuring medication preparation accuracy. Automatic dosage calculations, pop-up warnings and preset regimens help to reduce the risk of medication errors. **The use of barcodes enables increased safety** at several steps during preparation and medication administration:

GS1 and FMD compliant barcode scanning verification helps ensure use of the correct ingredient, diluent and vehicle necessary for the preparation.

Examples of How GS1 Can Help Improve Healthcare Systems – Healthcare Workers and Efficiency

In 2016, the Department of Health in England awarded funds to six NHS hospital trusts in England – the Scan4Safety demonstrator sites – to investigate how consistent use of point-of-care scanning might improve efficiency and safety within the NHS.

Throughout the two-year span of the Scan4Safety demonstrator-site programme, trusts collected evidence of the difference point-of-care scanning was making. Some of the headline findings:

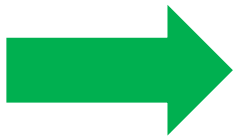
- Over the two-year program, across all six trusts **140,000 hours of clinical time were released to care.**
- At Leeds Teaching Hospitals NHS Trust, **the average time taken for product recalls has fallen from 8.33 days to less than 35 minutes** following the introduction of Scan4Safety. The organisation estimates **it will save ~GBP 84k each year** on such recalls.
- In cardiac catheterisation labs at University Hospitals of Derby and Burton NHS Foundation Trust, **one and a half band 7a nurses were entirely freed up from stock control work and released to patient care** following the implementation of Scan4Safety.

Examples of How GS1 Can Help Improve Healthcare Systems – Sustainability

Throughout the two-year span of the Scan4Safety demonstrator-site programme, trusts collected evidence of the difference point-of-care scanning was making. For example, scanning products when they enter stock ensures consistent and reliable stock management procedures – including clear sight of when products are due to expire.

Some further headline findings:

- Recurrent **inventory savings** worth nearly GBP 5m were achieved across the six trusts.
- At University Hospitals of Derby and Burton NHS Foundation Trust, **consumption reduction** supported by the introduction of Scan4Safety in April 2016 led to GBP 1.1m savings by May 2017 alone.



The 3 'Rs' of Sustainability: **Reduce**, Reuse, Recycle – **win-win!**





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Thank you

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BD-108755V2

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