



SUPPLIER SUMMIT

**USAID Global Health
Supply Chain Program
Supplier Summit
February 21-23, 2017**

IMPLEMENTATION OF GSI GLOBAL STANDARDS FOR PRODUCT IDENTIFICATION



USAID
FROM THE AMERICAN PEOPLE



PEPFAR

U.S. President's Emergency Plan for AIDS Relief



USAID
FROM THE AMERICAN PEOPLE



U.S. President's Malaria Initiative

AGENDA

- Introduction and Overview
- Panel Discussion
- Mandate and Implementation Strategy
- Ongoing Activities
- Recommendations and Resources
- Q&A



INTRODUCTION



THE CHALLENGE

- Poor data visibility because items and products are identified in non-standard ways
 - Proprietary identification numbers that are reassigned at various points in the supply chain
 - Identification inconsistent across procurement agencies and supply chain stakeholders through to the end user
- Lack of standardization in processes and operations because of inconsistent packaging labels
 - Multiple barcodes
 - Different types of barcodes
 - No barcodes

...WHICH RESULTS IN RISK TO SUPPLY CHAIN SECURITY

WHAT IS GHSC TRYING TO ACHIEVE?

Vision

To enable identification of every item procured at every point in the supply chain, through administration to the patient

Goal

To enable a secure and efficient supply chain from source through to service delivery

Objectives

- To enable end-to-end data visibility
- To identify and implement supply chain efficiencies
- To ensure supply chain security
- To increase patient safety

GENERATION NEXT

USAID GLOBAL HEALTH SUPPLY CHAIN PROGRAM

<p>GHSC-Procurement and Supply Management (GHSC-PSM) Single-award IDIQ</p> <hr/> <p>Chemonics</p>	<p>GHSC-Rapid Test Kits (GHSC-RTK) Single-award IDIQ</p> <hr/> <p>Remote Medical International</p>	<p>GHSC-Technical Assistance (GHSC-TA) Multiple-award IDIQ</p> <hr/> <p>Axios Chemonics LMI PriceWaterhouse Coopers</p>	<p>Systems for Improved Access to Pharmaceuticals and Services (SIAPS) Cooperative Agreement</p> <hr/> <p>MSH</p>	<p>Promoting the Quality of Medicines (PQM) Cooperative Agreement</p> <hr/> <p>USP</p>
<p>GHSC-Quality Assurance (GHSC-QA) Contract</p> <hr/> <p>FHI360</p>	<p>GHSC-Business Intelligence and Analytics (GHSC-BIA) GSA Contract</p> <hr/> <p>Intellicog</p>		<p>The Coca-Cola Last Mile Project</p> <hr/> <p>Global Development Alliance (GDA)</p>	

GS1: GLOBAL SYSTEM OF STANDARDS TO ENSURE VISIBILITY



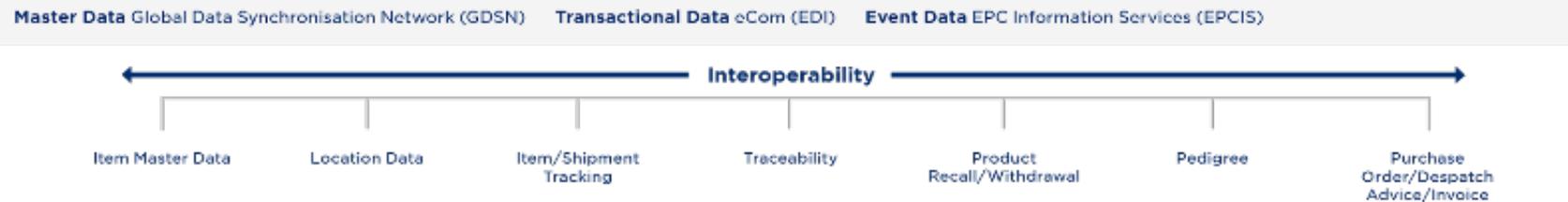
Identify: GS1 Standards for Identification



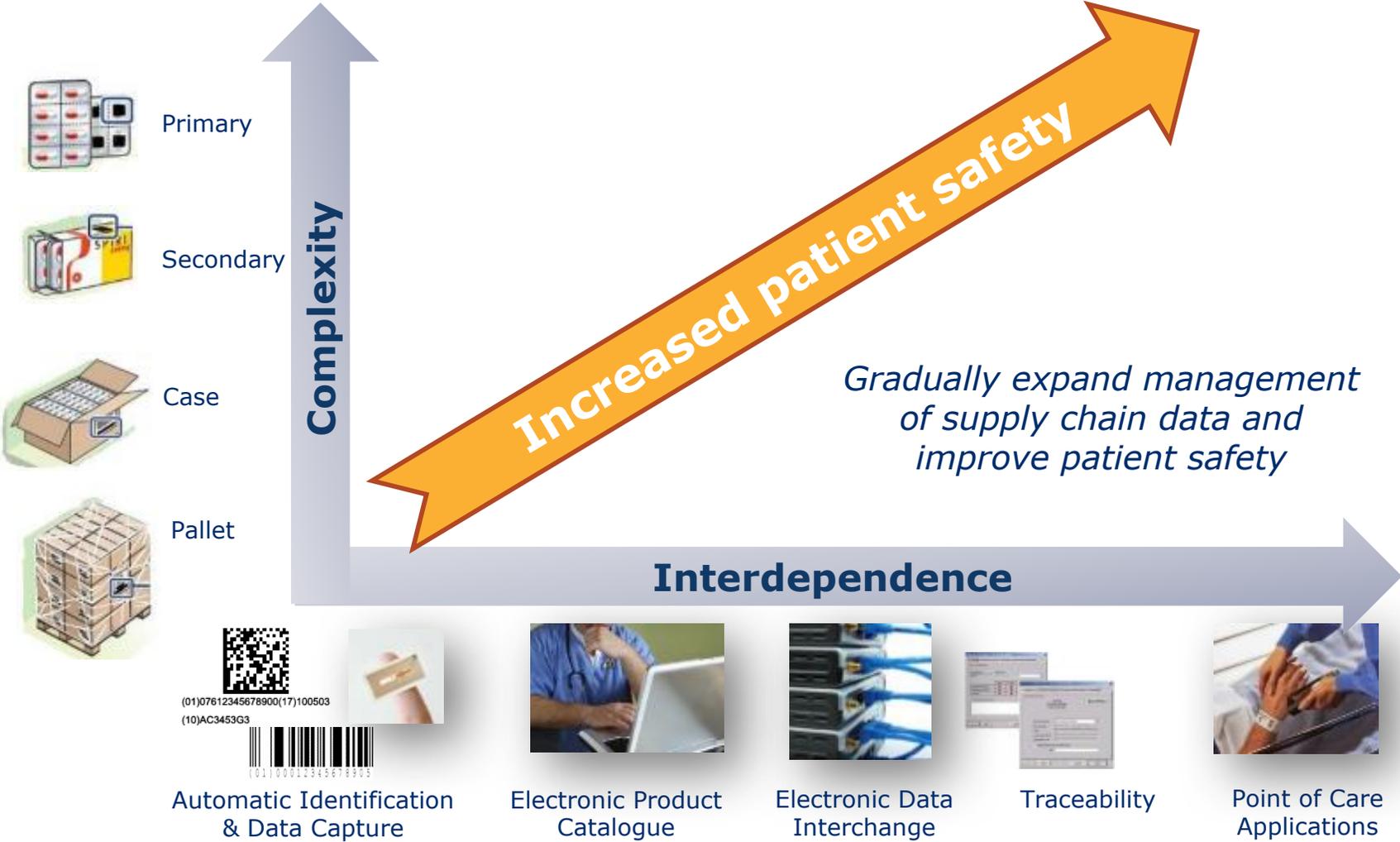
Capture: GS1 Standards for Barcodes & EPC/RFID



Share: GS1 Standards for Data Exchange



FOR A SECURE HEALTHCARE SUPPLY CHAIN



GS1 IS BOTH GLOBAL AND LOCAL



GS1 Global Office

Identification, creation, development and maintenance of standards and our foundational architecture, coordination with other international bodies, development of training programmes...

GS1 Member Organisations

Local offices in 112 countries around the globe. Implementation of standards, local regulatory adjustments, community management and relationship management with local governments and regulatory agencies...

GS1 – AN INTERNATIONAL STANDARDS ORGANISATION



Not-for-profit
112 Member Organisations
Over one million user companies
(from SME to global companies)
Member driven
150 countries served; in more than 25 sectors
2,500 people helping us
Over 6 billion transactions a day



RECOGNISED NGO STATUS BY UN



UNITED NATIONS



NATIONS UNIES

DEPARTMENT OF ECONOMIC AND SOCIAL AFFAIRS

Office for ECOSOC Support and Coordination – NGO Branch

DC1-1480, 1 UN PLAZA, NEW YORK, N.Y. 10017

Tel: (212) 963-8652 • Fax: (212) 963-9248

www.un.org/ecosoc/ngo

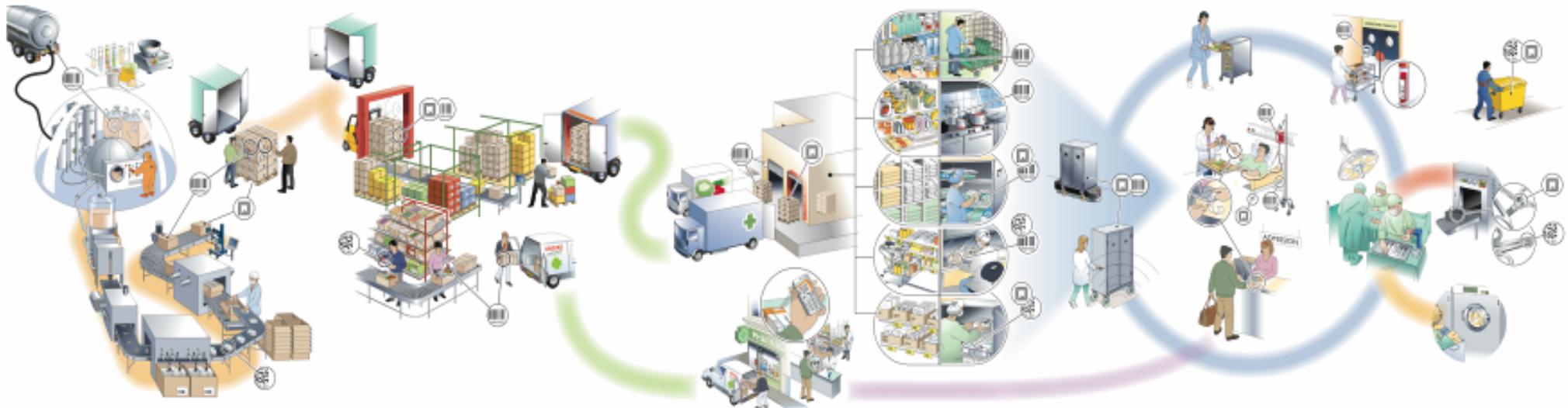
1 August 2011

Dear NGO Representative,

I am pleased to inform you that the Economic and Social Council (ECOSOC) at its Substantive Session of July 2011 adopted the recommendation of the Committee on Non-Governmental Organizations (NGOs) to grant **Special** consultative status to your organization “GS1”. On behalf of all staff of the Non-Governmental Organizations Branch, please accept our heartfelt congratulations.



VOLUNTARY, GLOBAL HEALTHCARE USER GROUP



To lead the healthcare sector to the successful development and implementation of **global standards** by bringing together **experts** in healthcare to enhance **patient safety** and **supply chain efficiencies**.





OUR VISION 2005

The vision of GS1 Healthcare is to be the **recognised, open** and **neutral** source for regulatory agencies, trade organisations and other similar stakeholders seeking **input** and **direction** for **global standards** in healthcare for



patient safety



supply chain
security & efficiency



traceability



product data

GS1 HEALTHCARE: AN EXPANDING, COMMITTED COMMUNITY OF GLOBALLY ENGAGED STAKEHOLDERS...



...and there are many more companies working with GS1 at a local level



WORKING WITH GLOBAL ORGANISATIONS...



International Organisation for Standardisation



European Committee for Standardization



Health Level 7 International



International Health Terminology SDO



Clinical Data Interchange Standards Consortium



Integrating the Healthcare Enterprise



Digital Imaging and Communications in Medicine

Joint Initiative Council



World Health Organization



World Health Organization
World Customs Organization



International Hospital Federation



International Council for Commonality in Blood Banking Automation



International Society for Quality in Healthcare



European Association of Hospital Pharmacists



European Federation of Pharmaceutical Industries and Associations

European Federation of Pharmaceutical Industries and Associations



European Medical Devices Industry Association



...AS WELL AS WITH LEADING HEALTHCARE PROVIDERS TO IMPLEMENT...



GS1 HEALTHCARE AROUND THE WORLD



Members global user group

Manufacturers

- 3M
- Abbott Laboratories/Abbvie
- Actavis Pharma, Inc
- Actelion Pharmaceuticals Ltd
- Alcon Labs
- AMAG Pharmaceuticals, Inc
- Amgen
- Astra Zeneca
- B. Braun
- Baxter
- Bayer
- Becton Dickinson
- Bristol-Myers Squibb
- Cook Medical
- Covidien
- Edwards Lifescience
- Eli Lilly and Company
- F. Hoffmann-La Roche Ltd
- Fresenius
- GE Healthcare
- Genzyme
- Gilead
- GlaxoSmithKline
- Johnson & Johnson
- Medtronic
- Merck & Co.
- Novartis
- Pall Medical
- Pfizer
- Purdue Pharma
- Smiths Medical
- Takeda
- Teleflex
- TEVA
- Zimmer

Solution provider

- 1WorldSync, Inc.
- Advanco
- Axway
- Blue Sphere Health Ltd.
- Dirk Rodgers Consulting, LLC
- Excellis Health

- GHX
 - Marsh Consulting Ltd.
 - OCS Checkweighers GmbH
 - Oracle
 - Seidenader
 - Tracelink
 - USDM Life Sciences
- ### Distributors/Healthcare providers/GPOs/T&L
- AmerisourceBergen (US)
 - Bernhoven Hospital (Netherlands)
 - Cardinal Health (US)
 - CH Aulnay sous Bois (France)
 - Comparatio Health (Germany)
 - DHL Exel Supply Chain (UK)
 - Erasmus MC Rotterdam (NL)
 - Filip Vtori (Macedonia)
 - Hong Kong Hospital Authority
 - HUG Geneva (Switzerland)
 - King FAISAL Specialist Hospital & Research Center (Saudi Arabia)
 - Iberia Rehab Hospital (US)
 - McKesson
 - Novation (US)
 - Premier (US)
 - St. James Hospital (Ireland)
 - UMC Groningen (NL)
 - UNI.H.A (representing 17 French university hospitals)
 - UPS
 - Wiener Krankenanstaltenverbund (Austria)

Non-voting members

- AHRMM
- Cladimed
- EDQM – Council of Europe
- FDA USA
- Instituto Brasileiro de Ética Concorrencial – ETCO
- Public Health Agency of Canada
- US DoD
- Healthcare Distribution Management Association (HDMA)

Local participation

Manufacturers

- 3M
- Bayer
- Becton Dickinson
- Boehringer Ingelheim
- Coloplast
- Draeger Medical
- Genzyme
- Hospira
- Kimberly-Clark
- Novo Nordisk
- Pierre Fabre
- Purdue Pharma
- Sanofi Aventis
- Smith and Nephew
- St. Jude Medical
- Stryker
- Terumo
- Teva Pharmaceuticals
- UCB
- Upsher-Smith

Distributors/Wholesalers

- Aexxdis
- Alliance Unichem (Netherlands)
- Amerinet
- AmerisourceBergen
- Brocacef (Netherlands)
- CH2
- Depolabo
- Galaxis
- GAMMA Wholesale
- Geodis
- McMahon
- Mediq (Netherlands)
- Owens & Minor

Healthcare providers/Retailers

- AMC Amsterdam (Netherlands)
- Antonius Ziekenhuis Nieuwegein (Netherlands)
- Ascension Health (US)
- Bernhoven Ziekenhuis Uden (Netherlands)
- Capital District Health (Canada)
- CH René Dubos Pontoise (France)

- CHI Robert Ballanger (France)
- CHRU Strasbourg (France)
- CHU de Québec (Canada)
- CHU DIJON (France)
- Deventer Ziekenhuis (Netherlands)
- Erasmus Medical Center (Netherlands)
- HealthShare NSW Health
- HUG Geneva (Switzerland)
- London Drugs (UK)
- Maxima Medisch Centrum (Netherlands)
- Mayo Clinic (US)
- Sisters of Mercy (US)
- Sobey's Pharmacy (UK)
- UHBS (Switzerland)
- UHCS Augusta VA (US)
- UMC Nijmegen (Netherlands)
- UMC Utrecht (Netherlands)
- VU medical center (Netherlands)
- Walgreens (US)
- Walmart (US)

Associations

- AHA (US)
- CHes (US)
- CNOP (France)
- EFPIA (Europe)
- Eucomed (Europe)
- FENIN (Spain)
- GIRP (Europe)
- HDMA (US)
- International Hospital Federation
- JFMDA (Japan)
- LEEM (France)
- NACDS (US)
- Patient Safety Foundation (US)
- SNITEM (France)

Others

- GCS UNI H A (France)
- NEHTA (Australia)
- RESA IDF (France)

... And many more ...



GS1 HEALTHCARE - DIRECTED BY USERS LEADERSHIP TEAM 2016/2017



Tri-Chairs:

- Scott Mooney, McKesson
- Steve Capel, Medtronic
- Feargal Mc Groarty, St. James's Hospital

LT Members:

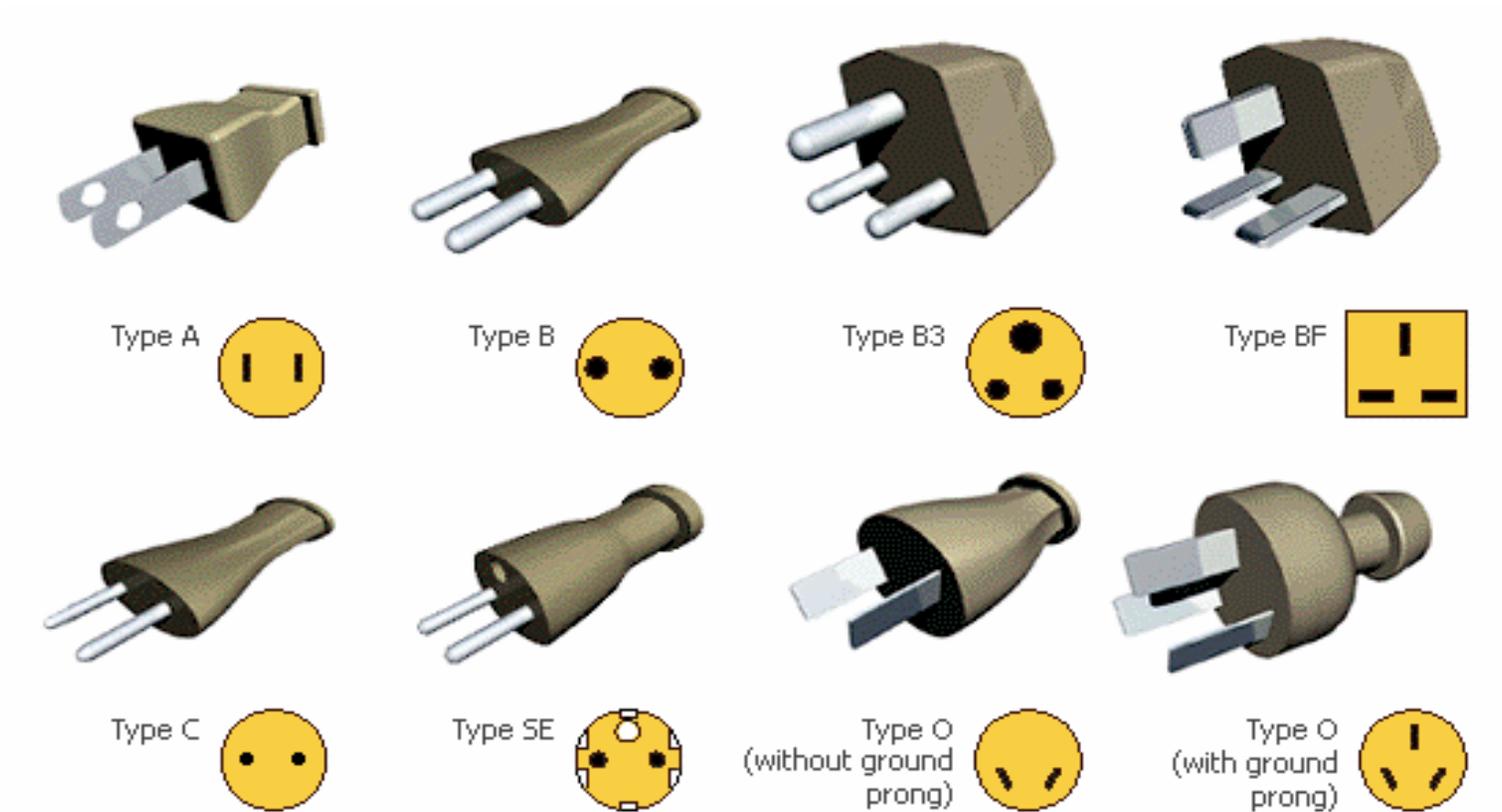
- Nick Manzo, 1WS
- Monica Kryzer, 3M
- Cyndi Poetker, Abbott
- Jeff Denton, Amerisourcebergen
- Volker Zeinar, B. Braun
- Nathan Habeck, Baxter
- Stefan Artlich, Bayer
- Dennis Black, BD
- Justin Bitter, Bernhoven Hospital
- Mike Meakin, DHL
- Sébastien Langlois-Berthelot, F. Hoffmann-La Roche
- Karen Conway, GHX
- Grant Courtney, GSK
- Jean-Michel Descoutures, IHF
- Tom Werthwine, J&J
- Peggy Staver, Pfizer
- Andrew Potter, Ramsay Health Care
- Grant Hodgkins, USDM
- Catherine Koetz, GS1 Australia
- Ana Paula Maniero, GS1 Brazil
- Valérie Marchand, GS1 France
- Michio Hamano, GS1 Japan
- Hans Lunenborg, GS1 Netherlands
- Beatriz Jorge, GS1 Portugal
- Glen Hodgson, GS1 UK
- Greg Bylo, GS1 US



WHAT PROBLEMS DO GLOBAL IDENTIFICATION AND DATA STANDARDS SOLVE?



Lack of standards in daily life is inefficient and annoying...



NO STANDARDISED PRODUCT ID



Same Product – Different Numbers

For example:

3M product with reference # 8630*

Same product in different databases of distributors:

- Allegiance M8630
- Owens & Minor 4509008630
- BBMC-Colonial 045098630
- BBMC-Durr 081048
- Kreislers MINN8630
- Midwest TM-8630
- Pacific 3/M8630
- UnitedUMS 001880

**Note: 3M had actually assigned a GTIN to this product but the supply chain partners were not using it.*



NO STANDARDISED PRODUCT ID



Different Products – Same Number

For example:

Part Number 10313 in Premier Inc. Product Item Master refers to:

- Medtronic's - "NEEDLE CARDIOPLEGIA ADULT 16GA 5/8IN TIP 10IN"
- Hantover's - "CARTRIDGE REPLACEMENT STUNNER YELLOW F/CALVES/HEAVY HOGS"
- Chattanooga Group's - "ACCESSORY TRACTION REPLACEMENT STRAP XL FOR HALTER THORACIC RESTRAINT"
- HF Scientific's - "TEST KIT WATER FREE CHLORINE DPD 25ML SAMPLE PHOTOMETRIC 1000/PK"

NO STANDARDISED PRODUCT INFORMATION



Inconsistent Packaging Data

- Order 20 cases, receive 20 boxes
- No uniform 'Unit of Measure' standard



<u>Unit of Measure</u>	<u>Description</u>	<u>Unit of Measure</u>	<u>Description</u>
BD	BOARD FOOT	LOT	LOT
BDFT	BOARD FOOT	LOTS	LOT (MULTI)
BN	BUNDLE	LY	LINEAR YARD
BO	BOLT	LYRS	LINEAR YARD
BOLT	BOLT	NU	NUT
BR	BARREL	NUTS	NUT
BRRL	BARREL	OZ	OUNCE
BX	BOXES	OZS	OUNCES
BXES	BOXES	PA	PAD
CO	COIL	PADS	PAD
COIL	COIL	PI	PINT
CR	CARBOY	PINT	PINT
CRBY	CARBOY	PK	PACKAGE
CS	CASE	PKGS	PACKAGE
CSES	CASE	PL	PAIL
CT	CARTON	PLS	PAILS
CTON	CARTON	PR	PAIR
DR	DRUM	PRS	PAIR
DRUM	DRUM	QR	QUIRE
DZ	DOZEN	QRES	QUIRE
DZEN	DOZEN	QT	QUART
EA	EACH	QTS	QUART
EACH	EACH	RE	REAM
FE	FEET	REAM	REAM





NO STANDARDISED LOCATION ID

Multiple Names for the Same Manufacturer

Manufacturer	Manufacturer
SOUTHLAND TECHNOLOGY 3M	3M 800-327-5380
3M CO PHOTO PRODUCTS DIV	3M CO
3M DIAGNOSTIC SYSTEMS INC	3M DENTAL 800-237-1650
3M ELECTRICAL SPECIALTIES DIV	3M ESPE DENTAL DIVISION 800-364-3577
3M HEALTH	3M ESPE UNITED STATES
3M HEALTH CARE CDI	3M ESPE
3M HEARING COMPONENTS	3M HEALTH CARE 800-521-2818
3M INDUSTRIAL TAPES LTD	3M HEALTHCARE PRODUCT
3M MEDICAL DEVICE DIV	3M HEALTHCARE
3M MEDICAL IMAGING SYSTEMS DIV	3M MEDSURGE
3M MEDICAL PRODUCTS DIV	3M MINNESOTA MINING MFG OFFICE
3M MEDICAL-SURGICAL DIV	3M MINNESOTA MINING & MFG.CO.
3M MEDICAL/SURG	3M OCC. HEALTH AND ENV. SAFETY DIV
3M PHARMACEUTICS AND MEDICAL S	3M OCC. HEALTH AND ENV. SAFETY DIV.
3M-MEDICAL/SURGICAL	3M SARNS/CDI
3M/ OCCUPATIONAL AND SAFETY DIV	3M SURGICAL
3M - MINNESOTA MINING & CO	3M UNITEK 800-423-4588
3M FEDERAL GOVERNMENT	3M UNITEK
3M FEDERAL SYSTEMS DEPARTMENT	THREE M/ ESPE
3M HEALTH CARE SYSTEMS	3M COMPANY C/O WAHL CORP.
3M HEALTHCARE \$250 MINIMUM ORDER	MINNESOTA SCIENTIF
3M HEALTHCARE(MINNISOTA MINNING)	CORPORATE ALLIANCE 3M CUSTOMER SERV
3M MEDICAL - CREDIT CARD	3 M HEALTHCARE
3M MEDICAL PRODUCTS	3 M UNITEK CORP
3M OCC. HEALTH AND ENV. SAFETY DIVISION	3-M
3M OCCUPATIONAL AND SAFETY DIV	3-M COMPANY
3M SAFETY DIVISION	3-M COMPANY-C/O O
3M-DENTAL PRODUCTS DIVISION	3-M COMPANY-C/O OEM PRODUCTS
3M-HEALTH CARE	3-M PHARMACEUTICALS
3M DENTAL PRODUCTS DIV.	33M HEALTHCARE
3M UNITEK CORPORATION	3M
	3M PUERTO RICO



This could be any manufacturer

The need for global standards in healthcare



Diverging country requirements Manufacturing headache



“CUSTOMIZED ACTIONS MEAN COSTS!!

Harmonisation of regulatory requirements and data standards will enable efficiency of a global product offering – otherwise complexity and cost will continue to raise”

Senior Executive, MD company



GS1 Identification Keys



Item identifier = **GTIN**

Global Trade Item Number



Logistics unit
identifier = **SSCC**

Serial Shipping Container Code



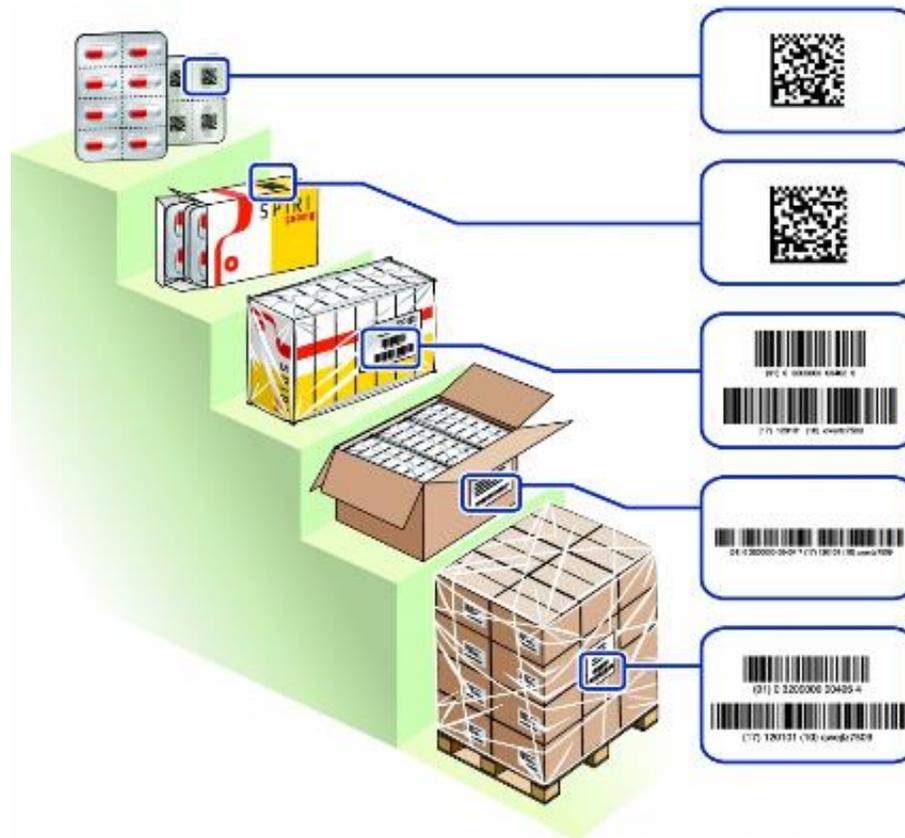
Location identifier = **GLN**

Global Location Number

And there are more ...

- *Unique*
- *Non-significant*
- *Global*
- *Secure*
- *Foundational*

Ideally - identifiers and data carriers at all packaging levels



NOTE: Data carriers shown are for illustration purposes only!



Note: Images shown are for illustration example only, refer to local regulations and/or the latest version of the GS1 General Specification for more detail.

© GS1 2016



The master data problem

Every company has a **database** filled with master data about the products they **make, sell, or buy**

But when one company **changes** any bit of information in their database or adds a new item, **another database becomes outdated!**



1970s



1990s

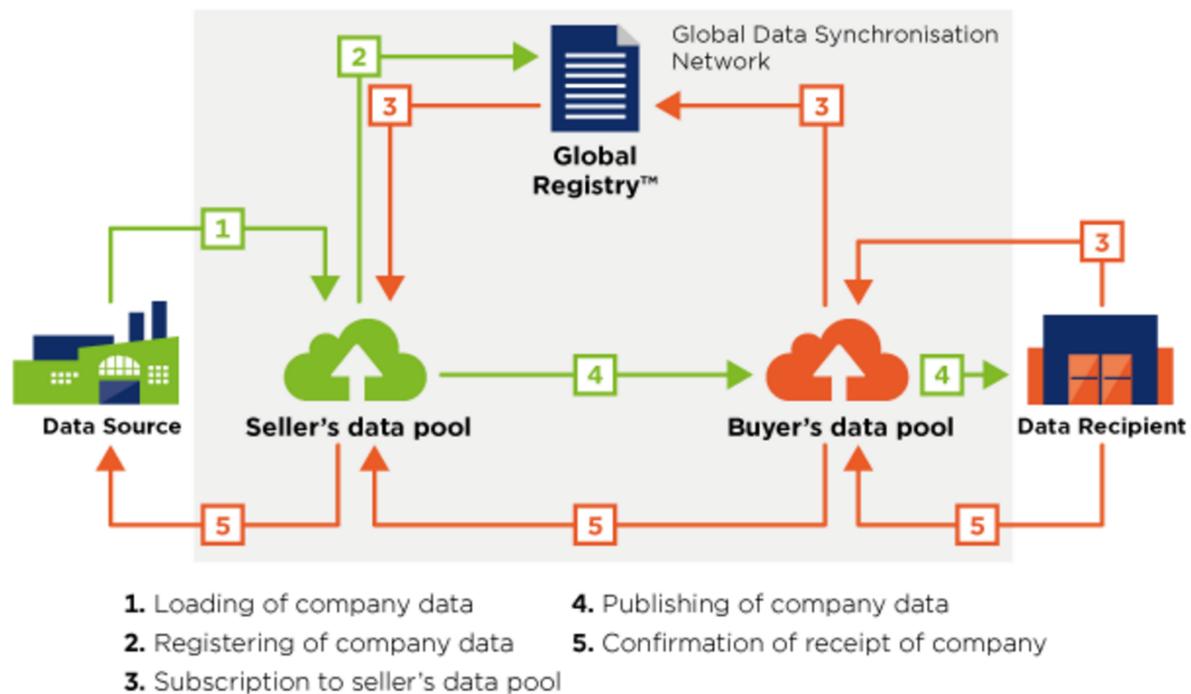


2000s

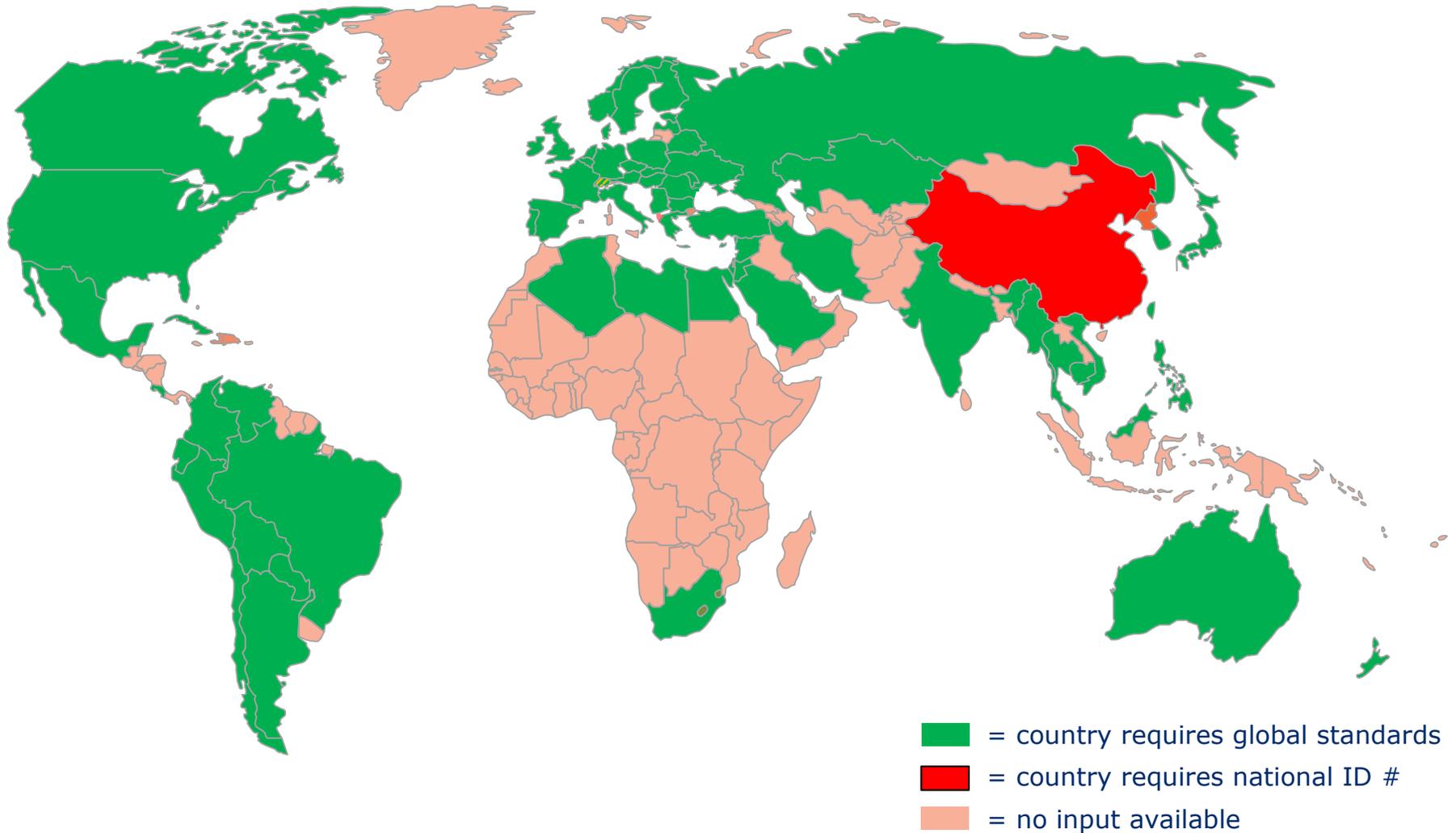
The Global Data Synchronisation Network



The GS1 Global Data Synchronisation Network® (GDSN®) is a **network of interoperable data pools** enabling collaborating users to securely **synchronise master data based on GS1 standards**. GDSN supports accurate, real-time data sharing and trade item updates among subscribed trading partners.



IDENTIFICATION OF PHARMACEUTICALS...AFTER 2019



ULTIMATELY, IT'S ALL ABOUT...



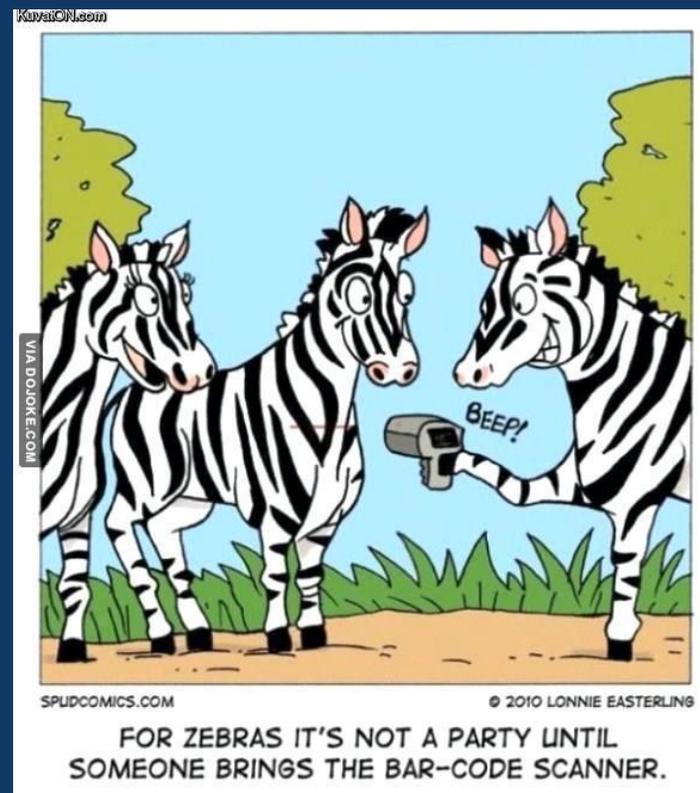
PATIENT SAFETY!



In Every Country

PANEL DISCUSSION

The future of global standards and product identification in the donor community



PANELISTS



Peter Alvarez (Moderator)

Senior Director, Identification and Data Strategy Healthcare
GSI Global



Hitesh Hurkchand

RMNCH Trust Fund (ISG)
United Nations Children's Fund (UNICEF)



Roberto Mena

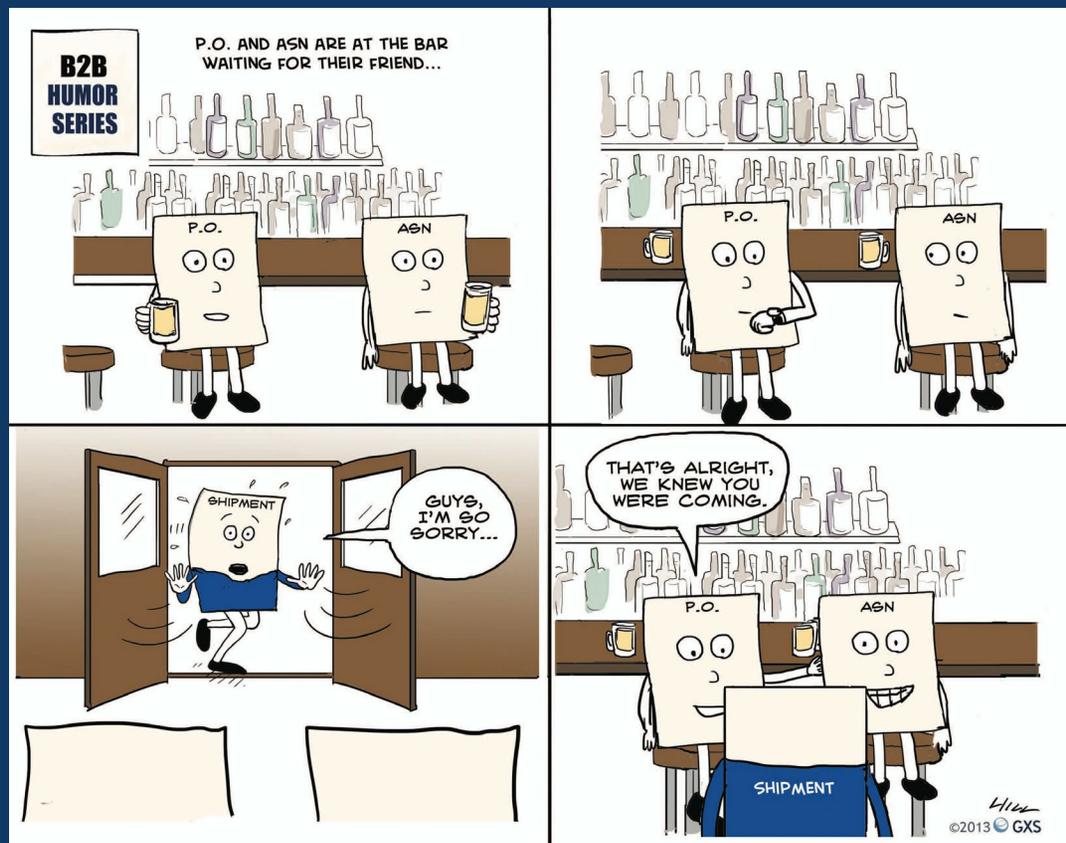
Procurement Specialist
United Nations Population Fund (UNFPA)



Hayley Traeger

Program Advisor for Strategic Engagement
United States Agency for International Development (USAID)

IMPLEMENTATION STRATEGY



THE JOURNEY TO TODAY



USAID & UNFPA to collaborate to address interoperability and data visibility challenges for RH

Collaboration for standards adoption introduced at ISG and led by USAID, UNFPA, GAVI

USAID & Pakistan DRAP present at GSI Global Healthcare Conference - Dubai

USAID & UNFPA sponsor 10 delegates from Ethiopia FMHACA and PFSA to attend

Attend GSI Global Healthcare Conference - Beijing

Attend GSI Global Healthcare Conference - Berlin

GSI Workshop at USAID

Ethiopia & Pakistan pilots started jointly between USAID and UNFPA



USAID joins VPPAG

Pilots conclude

Hosts E2E / standards adoption workshop with 5 countries

Present on pilots at GSI Global Healthcare Conference – Budapest

USAID / UNFPA found RH GTAG

Participate in Ethiopia National Consultative Workshop

2015

2016

2017

GHSC-PSM is launched

Join RHGTAG

Attend GSI Global Healthcare Conference - Dubai

Attend GSI Global Healthcare Conference - Beijing

Hire consultants for readiness assessments and recommendations

Launch GDSN RFP

Develop requirements and implementation road maps

GHSC-PSM

SUPPLIER SUMMIT

USAID Global Health Supply Chain Program Supplier Summit

GENERAL PRINCIPLES

- Adopt global standards to promote efficiency, reliability, and effectiveness
- Clearly identify vision, goals, and objectives to motivate requirements
- Requirements should capture what is necessary to secure the supply chain
- Requirements should be phased in over time to allow for transition
- Leverage successful practices and systems from other markets
- Harmonize with other key stakeholders in the community to:
 - ✓ Minimize the risk and investment required by suppliers
 - ✓ Maximize benefits to country supply chains and patients
- Establish benchmark metrics and KPIs to ensure accountability and measure progress

THERE ARE FOUR ELEMENTS TO OUR STRATEGY



IDENTIFY

Assignment of numbers to items and locations



CAPTURE

Marking of application identifiers on packaging and labeling



SHARE

Exchange of master and transactional data



USE

Data management; streamline processes; track and trace

WHAT DOES THE STRATEGY APPLY TO?

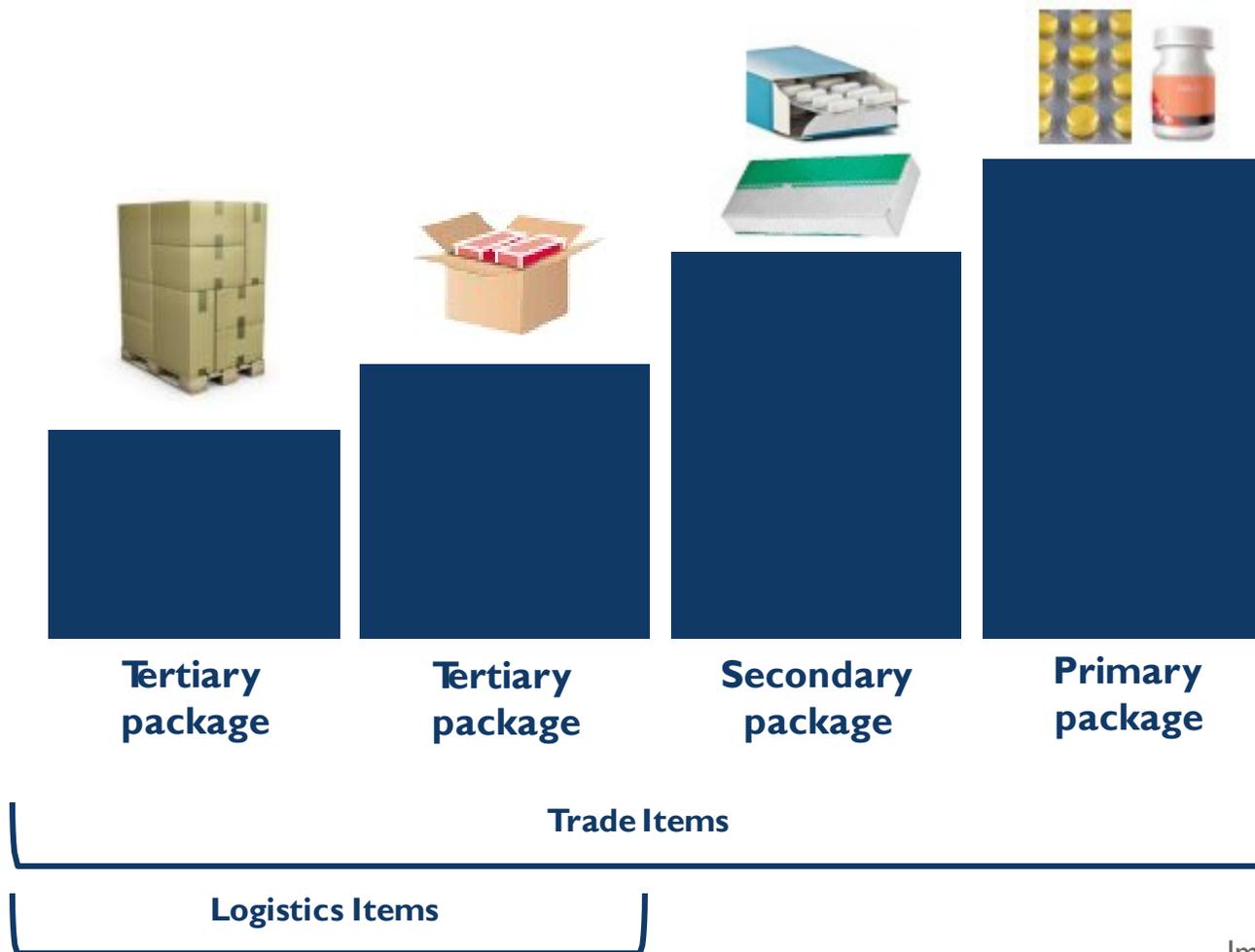


Image source: GSI Global

IMPLEMENTATION WILL ROLL OUT IN FOUR PHASES



*Within 6 months of initial contract being signed



IDENTIFY

To identify, organizations need to register with GSI to obtain a GSI Company Prefix and assign numbers to items and locations.

	Within 6 months	Phase I
Secondary Packaging Multipack and/or Single Pack Carton (Trade Item)	<ul style="list-style-type: none">✓ (01) Global Trade Item Number (GTIN)✓ Other attributes as requested	
Tertiary Packaging Case/Carton (Trade Item)	<ul style="list-style-type: none">✓ (01) GTIN✓ Other attributes as requested	
Tertiary Packaging Pallet (Trade Item)	<ul style="list-style-type: none">✓ (01) GTIN✓ Other attributes as requested	
Location		<ul style="list-style-type: none">✓ Global Location Number (GLN) Sold-from✓ GLN Ship-from



GTIN: (01) 07046261398572
Batch: (10) TEST5632
Expiry: (17) 130331
S/N: (21) 19067811811



To capture, organizations need to apply relevant automatic identifier and data capture (AIDC) technology to packaging that includes required application identifiers and human readable interpretation (HRI)

	AIDC	Phase 1	Phase 2	Phase 3
Secondary Packaging Multipack/Single Pack Carton (Trade Item)			✓ (01) GTIN ✓ (10) Batch / Lot ✓ (17) Expiry	✓ +(21) Serial Number
Tertiary Packaging Case/Carton (Trade Item)	 	✓ (01) GTIN ✓ (10) Batch / Lot ✓ (17) Expiry		✓ +(21) Serial Number
Tertiary Packaging Pallet (Trade Item)	 	✓ (01) GTIN ✓ (10) Batch / Lot ✓ (17) Expiry		✓ +(21) Serial Number
Tertiary Packaging Case/Carton (Logistics Item)				✓ (00) Serial Shipping Container Code (SSCC)
Tertiary Packaging Pallet (Logistics Item)				✓ (00) SSCC



To learn more about data exchange mechanisms, please attend “You Say Data, I Say Data: Data Exchange with GHSC-PSM” immediately following this session

To share, organizations need to register with GHSC-PSM’s Supplier Portal for transactional data and the Global Data Synchronization Network (GSDN) for master data

	Within 6 months	Phase 1	Phase 3
Master Data Products	<ul style="list-style-type: none"> ✓ (01) GTIN ✓ Additional attributes 		
Master Data Location		<ul style="list-style-type: none"> ✓ GLN Sold-From ✓ GLN Ship-From 	
Transactional Data Purchase Order (PO)	<ul style="list-style-type: none"> ✓ (01) GTIN ✓ (37) Quantity 	<ul style="list-style-type: none"> ✓ +GLN Sold-from ✓ +GLN Ship-from ✓ +GLN Bill-to / Sold-to 	<ul style="list-style-type: none"> ✓ +GLN Ship-to
Transactional Data Advanced Shipping Notice (ASN)	<ul style="list-style-type: none"> ✓ (01) GTIN ✓ (10) Batch / Lot ✓ (17) Expiry ✓ (37) Quantity 	<ul style="list-style-type: none"> ✓ +GLN Sold-from ✓ +GLN Ship-from ✓ +GLN Bill-to / Sold-to 	<ul style="list-style-type: none"> ✓ +SSCC ✓ +GLN Ship-to
Transactional Data Packing Slip	<ul style="list-style-type: none"> ✓ (01) GTIN ✓ (37) Quantity 	<ul style="list-style-type: none"> ✓ +GLN Sold-from ✓ +GLN Ship-from ✓ +GLN Bill-to / Sold-to 	<ul style="list-style-type: none"> ✓ +GLN Ship-to
Transactional Data Invoice	<ul style="list-style-type: none"> ✓ (01) GTIN ✓ (37) Quantity 	<ul style="list-style-type: none"> ✓ +GLN Sold-from ✓ +GLN Ship-from ✓ +GLN Bill-to / Sold-to 	<ul style="list-style-type: none"> ✓ +GLN Ship-to

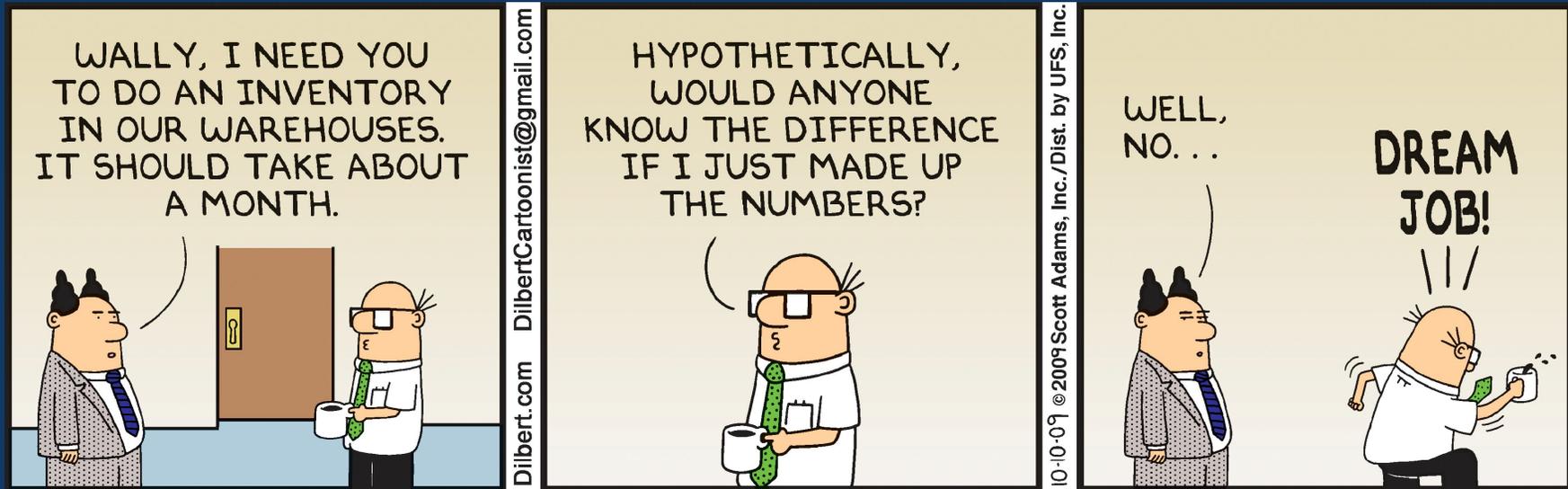
EVALUATION CRITERIA (AQSCIR-P)

EXAMPLES	Assurance of Supply	<ul style="list-style-type: none">• Production capacity• Quantity in stock (when required)• Past performance	Criteria and % Weights Are Tailored to the Commodity and/or Product and Specific Sourcing Strategy
	Regulatory	<ul style="list-style-type: none">• Administrative requirements• Registration in country	
	Quality	<ul style="list-style-type: none">• QA requirements (USFDA, WHO, GHSC-QA)• Shelf life• Stability studies / climatic zone standards	
	Service	<ul style="list-style-type: none">• Lead time (stock, fresh production)• Customer service• Product Identification	
	Cost	<ul style="list-style-type: none">• Specific / Unique label language• Unique distribution requirements	
	Innovation	<ul style="list-style-type: none">• Serialization• Packaging optimization• New /improved products	
	Price	<ul style="list-style-type: none">• FCA unit price	

BEST VALUE AWARD STRATEGY TO ACHIEVE DESIRED MARKET OUTCOME



IMPLEMENTATION AND USE



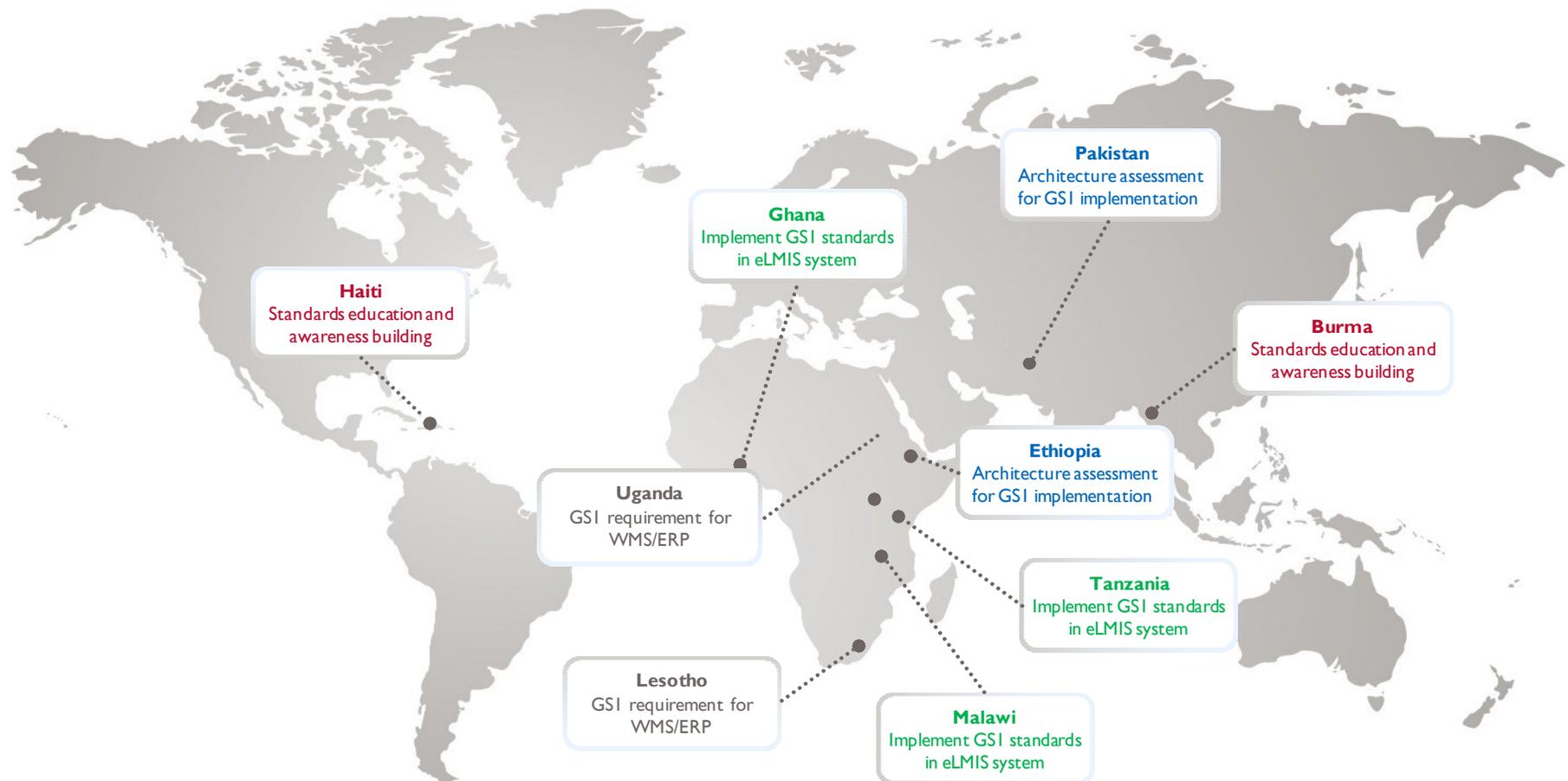
STRATEGIC ENGAGEMENT WITH PARTNERS

- Reproductive Health Global Traceability and Advisory Group (RH GTAG)
- GFATM's Global Steering Committee Private Sector Advisory Council – Traceability Sub-Working Group
- GSI Global Healthcare Conferences

GLOBAL SUPPLY CHAIN IMPLEMENTATION

Completed	Up Next
✓ Assessment of ARTMIS's ability to support standards implementation	<ul style="list-style-type: none">• Implement recommendations
✓ Identified opportunities for process improvements	<ul style="list-style-type: none">• Implement operational processes to leverage standards in GHSC-PSM's logistics management function and regional distribution centers
✓ Product catalog structured around standard data identifiers and common industry attributes	<ul style="list-style-type: none">• Award GDSN contract• Integrate master data
✓ Developed preliminary requirements	<ul style="list-style-type: none">• Issue supplier benchmark survey• Complete implementation guideline

GHSC IS SUPPORTING STANDARDS IMPLEMENTATION IN SEVERAL USAID-SUPPORTED COUNTRIES



ETHIOPIA NATIONAL CONSULTATIVE WORKSHOP ON GLOBAL HEALTHCARE STANDARDS FOR TRACK AND TRACE



**SUPPLIER
SUMMIT**

USAID Global Health Supply Chain Program Supplier Summit

IMPROVING ETHIOPIA'S HEALTHCARE SUPPLY CHAIN INTEGRITY THROUGH END-TO-END VISIBILITY

- Five-year strategy for implementation of standards and technologies to improve mechanisms to control counterfeit products and improve supply chain visibility.
- Improve patient safety, supply chain security, and supply chain efficiency through product traceability.

LESSONS BEING LEARNED IN ETHIOPIA

- Invest upfront to gain government support
 - Create opportunities for education and information sharing with regulatory and procurement agencies
 - Select the right project champion
- Enable suppliers, government, and donors to share information about the movements of products and assets through the supply chain
 - Develop a culture of data for decision-making and visibility
 - Select a sustainable and interoperable system

GSI STANDARDS PILOT IN PAKISTAN

- GSI standards were first piloted by Pakistan with USAID and UNFPA support on vaccine and contraceptives products in 2015
- The following recommendations were made to the Drug Regulatory Authority Pakistan (DRAP) and Vaccine Presentation and Packaging Advisory Group (VPPAG)
 - Need to apply standards to the local context
 - Legislation is required around packaging labeling
 - Serialization is key to enable track and trace
 - inventory accuracy
 - batch-level tracing



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WHAT BENEFITS ARE BEING SOUGHT IN PAKISTAN?

- One standard to use with all pharmaceutical partners
- Authentication of products provided to patients
- Fast and accurate data capture at every point in the supply chain
- Enables efficient, accurate, and targeted recalls
- Improved party-to-party communications throughout the supply chain
- Warehouse automation and improved inventory accuracy
- Time and cost saving for healthcare providers at service delivery points

THE WAY FORWARD

- Drug Regulatory Authority of Pakistan and Ministry of NHR&C developed GSI standards legislation in Pakistan
 - Summary recommendation approved by the Prime Minister; awaiting endorsement of Cabinet Division,
- Continue leveraging GSI-compliant products where available
 - Pakistan has started receiving GSI-compliant BCG and pentavalent vaccine products
- USAID assistance through GHSC-PSM and USP
 - Collaboration among DRAP, pharma industry, GSI Pakistan, and other relevant partners to carve out a three- to five-year roadmap for implementation

RESOURCES FOR SUPPORT

RECOMMENDATIONS

- Engage the technical leads on packaging, product identification, and/or serialization in your organization to inform them of GHSC's emerging product identification mandate
- Register with your local GSI member organization and request a company prefix
- Participate in the industry events to learn from peers on best practices for implementation
 - GSI Global Healthcare Conference, 4-6 April 2017, Berlin, Germany
 - GSI Global Healthcare Conference, 17-19 October 2017, Chicago, United States

RESOURCES

- [GSI General Specification](#)
- [GSI Logistics Label Guidelines](#)
- [GSI EPCIS Standards Specification](#)
- [GSI Member Organizations Contact Information](#)
- RH GTAG Identification Guidelines for Reproductive Health Products
- [VPPAG Generic Preferred Product Profile for Vaccines](#)
- [The Alliance for Global Pharmaceutical Serialization \(RxGPS\)](#)
- [“Strength in unity: The promise of global standards in healthcare”](#)

ACRONYMS

Acronym	Definition	Acronym	Definition
AI	GSI application identifier	ISG	Interagency Supply Chain Group
AIDC	automatic identification and data capture	MDM	master data management
ARTMIS	GHSC-PSM automated requisition tracking management information system	MOH	Ministry of Health
ASN	advanced shipping notice	PSM	Procurement and Supply Management Project
DRAP	Drug Regulatory Authority Pakistan	RMNCH	Reproductive, maternal, newborn and child health
EDI	electronic data interchange	RH GTAG	Reproductive Health Global Traceability Advisory Group
eLMIS	electronic logistics management information system	SSCC	serial shipping container code
EPCIS	electronic product code information services	UNFPA	United Nations Population Fund
GDSN	global data synchronization network	UNICEF	United Nations Children's Fund
GFATM	Global Fund to Fight AIDS, Tuberculosis, and Malaria	USAID	United States Agency for International Development
GHSC	Global Health Supply Chain Program	VPPAG	Vaccine Presentation & Packaging Advisory Group
GLN	global location number	WMS	warehouse management system
GTIN	global trade item number		
HRI	human readable interpretation		

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APPENDIX



What if standards in grocery stores worked like they do in the healthcare supply chain?