

(01) 10222222333334 (17) 091231 (10) A1345B (21) 1234

# Introduction to the GHSC-PSM Global Data Synchronization Network (GDSN) Initiative

#### **USAID GLOBAL HEALTH SUPPLY CHAIN PROGRAM**

Procurement and Supply Management













The following training is based on materials developed by 1WorldSync and are used with their permission.

1WorldSync is a GS1 Global Data Synchronization Network<sup>TM</sup> data pool provider.

For more information, please visit www.1worldsync.com

# Today's Presenters



Carol Miklusak
Implementation Consultant
1WorldSync



**Payal Patel**Senior Project Manager
1WorldSync



**Kaitlyn Roche**Manager for Global Standards
GHSC-PSM



**Todd Simons**Healthcare Manager
1WorldSync

# Today's Attendees

- Brand Owners
- Manufacturers & Suppliers
- GHSC-PSM
- USAID
- UNFPA
- Global Fund
- 1WorldSync

# Meeting Objectives

- Kick-off the GHSC-PSM GDSN Initiative
- Awareness and education
  - GHSC's adoption of global standards
  - GS1 standards
  - Master data & the GDSN
  - Actions & timeline
- Available resources

# GHSC & Global Standards

# Current Challenge

- No standardized product and location master data which results in 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

# No standardized product identification

#### Different products, same number

Projects previously used proprietary identification numbers that resulted in duplicity across health areas

#### Product ID 102033

- Bed Net, Polyester, Deltamethrin, 100 Denier (180(L)  $\times$  190(W)  $\times$  170(H) cm), Rectangular, Light Blue
- Lopinavir/Ritonavir 200/50mg [Aluvia], tablets, I 20 Tabs

#### Product ID 102043

- Condom, Male, 49mm lubricated, non-colored, non-scented [Top], latex, piece
- Stavudine 20mg [Zerit], capsules, 60 capsules

#### Product ID 102062

- Test, Rapid Diagnostic Malaria, Ag HRP2/pLDH Single Pack POCT [First Response Malaria] kit, 30 tests
- Amoxicillin 250mg, capsules, 1000 Caps

# No standardized legal entity or location identification

#### Multiple ways to list a manufacturer

Manually logged entity information is prone to errors and results in duplicity, making it difficult to discern which entity is the correct trading partner

- Abbott
- Abbott GmbH + Co.KG
- Abbott Laboratories
- Abbott Molecular
- Abbott,
- ABBVIE
- AbbVie Deutschland GmbH + Co KG

- F. Hoffmann
- Hoffmann La Roche
- ROCHE
- Roche
- Roche Diagnostics
- Roche Diagnostics international Ltd
- Roche Molecular
   Systems Inc.-US
- Roche Molecular
   Systems Inc, US
- Roche Products (Pty) Ltd-Diagnostics Division

- Fischer Scientific
- Fischer Technical
- Fisher BioReagents
- Fisher Healthcare
- Fisher Scientific
- Fisherbrand
- Fisherbrand HistoPrep Chemicals
- Thermo Fisher Scientific
- Thermo Scientific
- ThermoFisher
- ThermoFisher Scientific

- VWR
- VWR Brand
- VWR Chemicals
- VWR Chemicals France
- VWR INTERN
- VWR International
- VWR INTERNATIONAL LLC

# 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

## Global standards at GHSC-PSM

- Mandated by USAID in 2017
- Requirement formalized January 1, 2018 in Article 3 of the Standard Terms & Conditions
- Will be included in all new sourcing events / contracts; existing LTAs will be modified
- Accompanied by Global Standards
   Technical Implementation Guide
   and FAQ
- More information at ghsupplychain.org/globalstandards



April 25, 2017

#### TECHNICAL DIRECTION MEMORANDUM (TDM) 2017-03

TO: Anthony Savelli, Project Director, GHSC-PSM

FROM: Lindizgya Gutierrez, COR, GH/ID/MAL

Sherif Mowafy, COR, GH/OHA/SCH
Carmen Tull, COR, GH/MNCH/CHI
John Vivalo, COR, GH/PRH/CSL

SUBJECT: Technical Direction Memo (TDM) Establishment of a strategic approach

for the adoption of global standards for product identification

REFERENCE: Chemonics International - GHSC-Procurement and Supply Management

USAID IDIQ No. AID-OAA-I-15-00004 Task Order 1 - AID-OAA-TO-15-00007, Task Order 2 - AID-OAA-TO-

15-00009, Task Order 3 - AID-OAA-TO-15-00010, and Task Order 4 -

#### Background

To improve the safety and efficiency of supply chains in the countries in which it supports, and to improve the traceability of USAID funded commodities, USAID is implementing a strategic vision for adoption of global standards for supply chains. To advance this, USAID expects GHSC-PSM to implement a strategic and coordinated approach to adoption of global standards, namely GS1 healthcare standards, for product identification, data capture and data sharing across its global and in-country activities. This includes utilizing barcode technology in its supply chain and enabling its usage by national supply chains.

In January 2017, GHSC-PSM concluded a consultancy with RC Partners focused on adoption of global standards under the project. By May 25, 2017, GHSC-PSM shall submit to USAID a detailed plan for implementation of global standards for product identification and data capture to achieve the minimum targets set by each TO. This strategic plan shall detail milestones, risks, and resource requirements

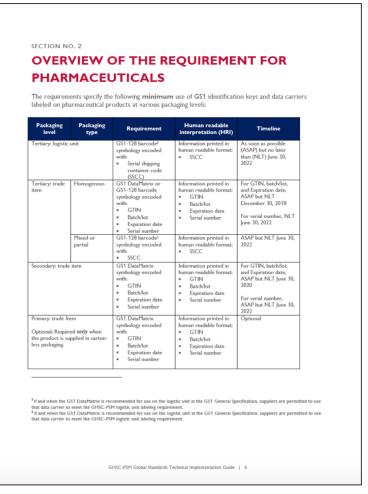
#### **Technical Directions**

Below are the targets that have been established for T03. The targets for the remaining task orders will be provided in a later communication from the task order COR. The targets and objectives of this TDM are to focus on product identification and labeling. Further guidance will be provided on data sharing.

U.S. Agency for International Development 1300 Pennsylvania Avenue, NW Washington, DC 20523 www.usald.gov

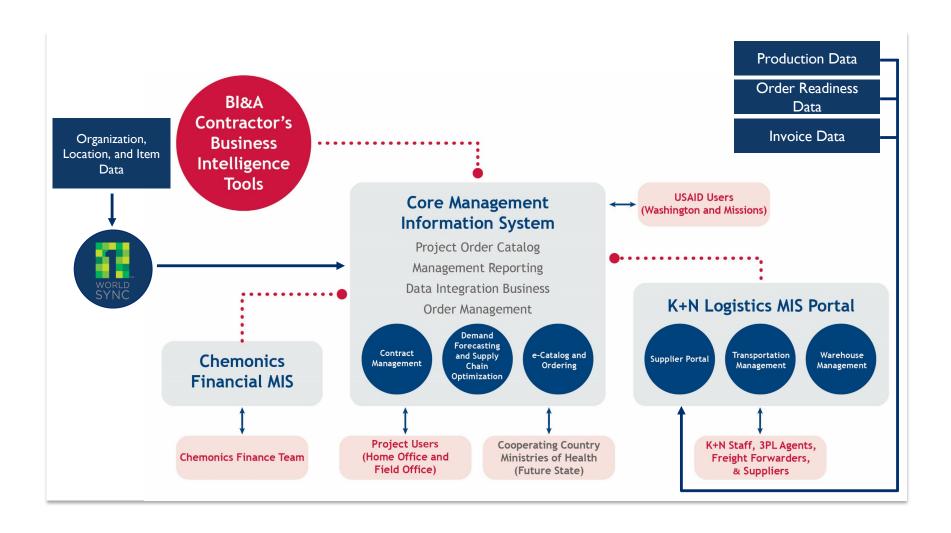
# The GHSC-PSM procurement requirement

- Phased in over time
- Identification (items & locations)
   within 6 months of new contracts
- Labeling requirements for pharmaceuticals, medical devices, laboratory reagents, and sterile test kits phased in between Dec 2018 – Jun 2022
- Master data exchange via the GDSN required by Dec 2019



Available here

# GDSN data will feed into ARTMIS and form the basis of the GHSC-PSM product catalog



### Launch of the GHSC-PSM GDSN initiative

#### USAID Global Health Supply Chain Program

Procurement and Supply Management

#### Dear Trading Partner,

Thank you for your support for this critical program as we work together as a global ecosystem to improve global health and saves lives. As we continue to enable process improvements and instill leading commercial practices, the USAID Global Health Supply Chain Program-Procurement and Supply Management (GHSC-PSM) is implementing global standards across its supply chain, as announced at the 2017 USAID Global Health Supply Chain Program Supplier Summit and implemented through a new commodity contract requirement, disseminated to all trading partners in January 2018. More information on this initiative can be found on our website at http://ghsupply.chain.or/globalstandards.

As part of this effort, GHSC-PSM, in addition to other global procurement agencies like UNFPA, will leverage the GS1 Global Data Synchronization Network<sup>TM</sup> (GDSN®) for the exchange of product masted rdata, which will form the basis of our product catalog and flow through all relevant transactional documentation. GDSN provides a secure, automated environment for sharing consistent, standards-based, up-to-date product information among trading partners. For more information on the GDSN, please see <a href="https://www.gs1.org/gdsn.">https://www.gs1.org/gdsn.</a>

Using the GDSN will ensure GHSC-PSM has a "single source of truth" for product identification information and associated master data, which will improve accuracy in our procurement process and enable automation and efficiencies in our warehousing and logistics operations. The master data received from synchronization will allow USAID-supported countries to make the best purchasing decisions when ordering life-saving commodities, through providing national stakeholders with the information they need to optimize decision making for order planning, procurement, shipping, and receiving via GHSC-PSM.

GHSC-PSM expects trading partners to also gain real operational benefits through the GDSN; standardization across partners within and across organization reduces duplicate systems and processes in which stakeholders across a company need to be consulted to fulfill a single data request. The GDSN manages the aggregation of all product-related data, removing inefficiencies and exceptions, and ultimately reducing costs.

Trading partners can utilize the GDSN by subscribing to a GDSN-certified data pool. GHSC-PSM has partnered with 1WorldSync to support our GDSN implementation, but our trading partners may choose to partner with any GDSN-certified data pool. A list of those companies can be found at <a href="https://www.gs1.org/gdsn/certified-data-pools">https://www.gs1.org/gdsn/certified-data-pools</a>.

Please consult GHSC-PSM's GDSN landing page at <a href="http://www.1worldsync.com/customer-page/ghsc.psm/">http://www.1worldsync.com/customer-page/ghsc.psm/</a> to complete Trading Partner Form and review the GHSC-PSM Attribute Glide for a detailed list of our product attribute requirements. We strongly recommend that you partner with a GDSN-certified data pool and begin preparing your product master data as soon as possible prepare for the GHSC-PSM go live in April – June 2018.







#### USAID Global Health Supply Chain Program

Procurement and Supply Management

We will communicate all other necessary information, data requirements, and next steps for the GHSC-PSM GDSN initiative by March 2018. We will be hosting informational webinars to provide your more details about this initiative and answer any of your questions. **REGISTER** for any of the below listed events today here: <a href="http://ibrl.hv/2Fr58tr">http://ibrl.hv/2Fr58tr</a>

- Wednesday, February 28, 2018 at 7:00 AM Eastern Time
- Wednesday, March 28, 2018 at 9:00 AM Eastern Time

If you have any questions regarding this initiative, please contact the GHSC-PSM Data Sync Team at <a href="mailto:dataync@ghsc-psm.org">dataync@ghsc-psm.org</a> or our partners at 1Worldsync at <a href="mailto:bushc-psm.org">bushc-psm.org</a> worldsync.org</a> or +1-866-280-4013.

Thank you in advance for your support and cooperation. We look forward to collaborating with you on this important initiative.

Sincerel

Global Supply Chain Director
USAID Global Health Supply Chain Program – Procurement and Supply Management







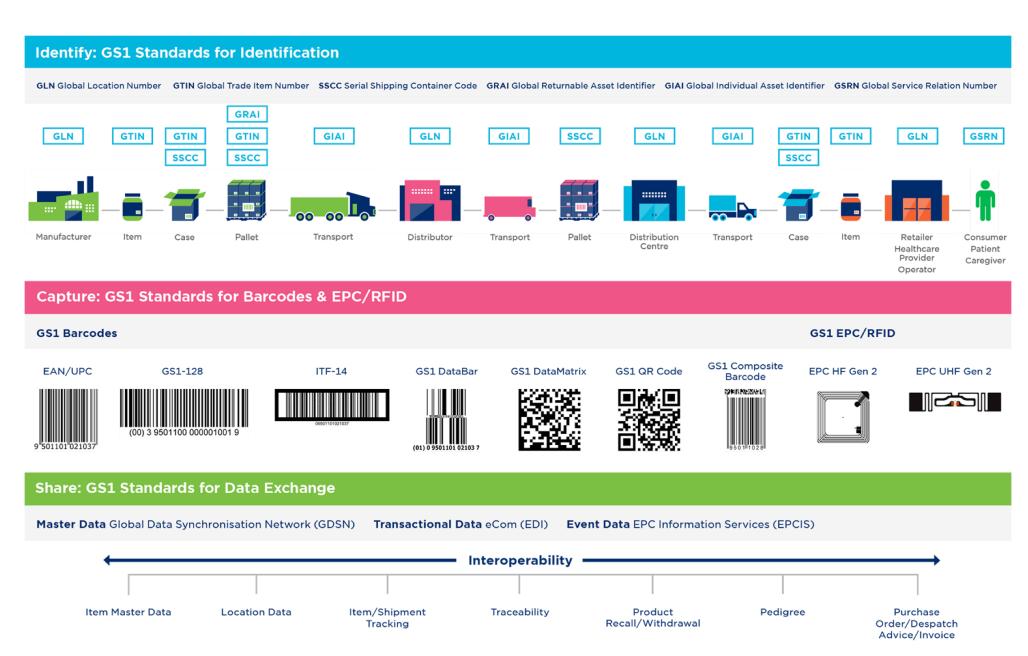
Available here

# The GS1 Global Standards Organization

# GS1 – an international standards organization



Source: GS1 Global Office



Source: GS1 Global Office

# The foundation: GS1 identification keys

- Unique
- Non-significant
- International
- Secure
- Foundational



Item Identifier

Global Trade Item Number (GTIN)

Uniquely identifies all trade items at any packaging level



Location Identifier

**Global Location Number (GLN)** 

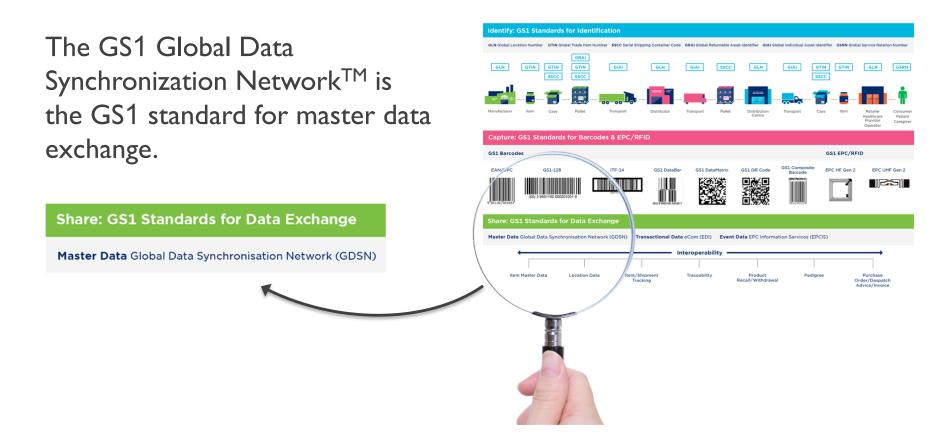
Uniquely identifies an organization - both legal entities and/or physical locations

...and there are more

Source: GS1 Global Office

# Introduction to the GDSN

### What is the GDSN?



#### What is master data?

- Item or location related data created by the manufacturer / brand owner
- The data needed by the recipient to perform operational and commercial processes
- Product related data or characteristics are referred to as ATTRIBUTES in the GDSN
- GTINs and GLNs are the keys (or identification reference numbers)
  used to access master data across multiple systems, applications or
  processes

# Examples of master data

- There are over 3,000 attributes available in the GDSN, but here are just a few:
  - I. Global Trade Item Number (GTIN)
  - 2. GTIN Name
  - 3. Product Type
  - 4. Target Market
  - 5. Language
  - 6. Information Provider (GLN)
  - 7. Brand Owner (GLN)
  - 8. Manufacturer (GLN)
  - 9. Brand Name
  - 10. Qty. of Next Level Item(s)
  - 11. Global Classification Code (GPC)
  - 12. Ordering Unit Indicator
  - 13. Start Availability Date
  - 14. Functional Name

- 15. Product Description
- 16. POS Description
- 17. Depth/UOM
- 18. Height/UOM
- 19. Width/UOM
- 20. Gross Weight/UOM
- 21. Net Weight/UOM
- 22. Net Content/UOM
- 23. Base Unit Indicator
- 24. Consumer Unit Indicator
- 25. Dispatch Unit Indicator
- 26. Invoice Unit Indicator
- 27. Variable Weight Trade Item
- 28. Packaging Marked Returnable?

### What does it aim to achieve?

Global

Data

**Synchronization** 

Network

#### The GDSN was designed to:

- Enable customers, suppliers, consumers and other interested parties to share information on products using standardized fields and data formats
- Facilitate the rapid dissemination & continues flow of critical product MASTER data throughout the entire supply chain

### Benefits of GDSN

#### Organizational Efficiencies

- ✓ Provides a single source of truth
- ✓ Enables common language between trading partners
- ✓ Reduces data management time errors
- ✓ Streamlines accounts receivable process
- ✓ Improves service levels, fill rate, and inventory management

# **Supply Chain Efficiencies**

- √ Supports regulatory compliance
- ✓ Enhances physical movement process & inventory management
- ✓ Optimizes order, invoice, sales reporting, and chargeback/rebate processes
- ✓ Enables supply chain visibility

# Improving Patient Safety

- ✓ Reduces medication errors
- ✓ Links critical product data to the patient record
- ✓ Enables effective product recalls
- ✓ Enables tracking of pharmaceutical products/medical devices
- Reduces introduction of counterfeit products

#### **USAID Global Health Supply Chain Program**

# GDSN in the healthcare industry

- Overall, there are more than 24 million GTINs and 44,000 GLNs in the GDSN
- In healthcare —

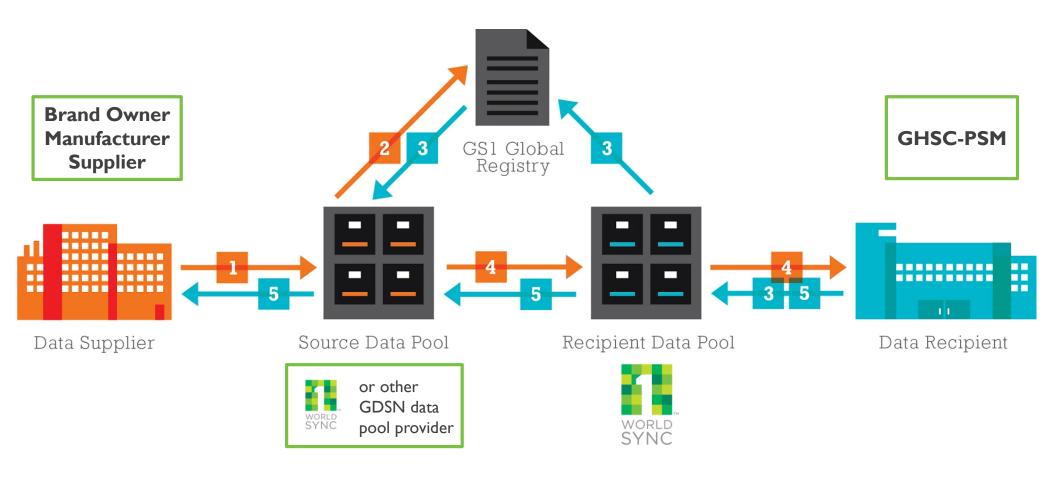
Total GTINs	2,103,245
Device GTINs	1,578,835
Pharma GTINs	67,437
All other GTINs	456,973
Total GLNs	3,811
<b>Total Target Markets</b>	96

Source: GS1 Global Office, Nov 2017

### How GDSN works

- I. The supplier loads item data into their GDSN data pool. Supplier data needs to adhere to GS1 global standards.
- 2. The recipients subscribe through their GDSN data pool to the supplier's data
- 3. The supplier sends their product data to their recipients
- 4. The recipients send confirmation of receipt to the supplier

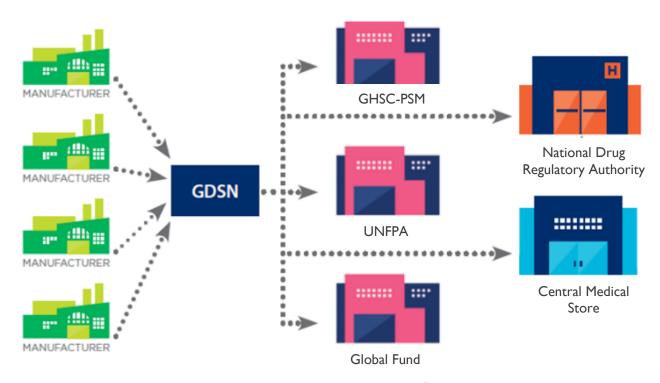
# GDSN messaging choreography



For additional information: <a href="http://www.gs1.org/gdsn">http://www.gs1.org/gdsn</a>

# The GDSN opportunity for global health

#### GSI Global Data Synchronisation Network<sup>TM</sup> (GDSN®)



Manufacturers are able to provide data to all kinds of databases and all kinds of customers (hospitals, distributors, wholesalers, GPOs) simultaneously, with a single connection.

# How to Implement

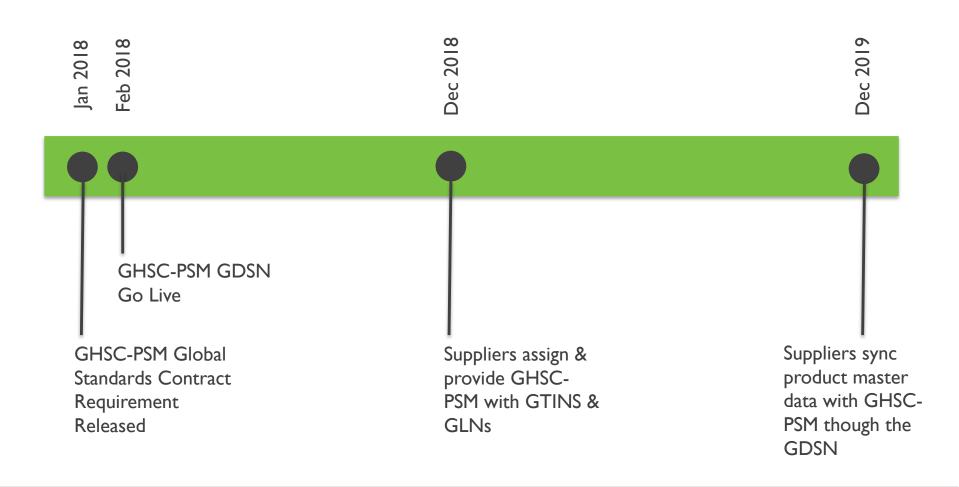
# How to get GS1 compliant

- Register with a GS1 Member Organization (MO) to obtain a GS1 Company Prefix
- 2. Assign a Global Trade Item Number (GTIN) to all items
- 3. Assign a Global Location Number (GLN) for relevant legal entities and locations
- 4. Subscribe to a GDSN-certified data pool provider of your choice
  - A list of all GDSN-certified data pool providers can be found at <a href="https://www.gs1.org/services/gdsn/certified-data-pools">https://www.gs1.org/services/gdsn/certified-data-pools</a>
  - 1WorldSync has a special offer for GHSC-PSM suppliers to join the GDSN. For more information, contact +1-866-280-4013 or <u>businessdevelopment@1worldsync.com</u>

# How to publish item data in the GDSN

- I. Complete the Trading Partner Form available via <a href="http://www.lworldsync.com/customer-page/ghsc-psm/">http://www.lworldsync.com/customer-page/ghsc-psm/</a>
- 2. Load the GTIN, GLN, and associated item data into your GDSN data pool solution
  - Reference the <u>GHSC-PSM Data Synchronization Attribute Guide</u> for a complete list of attribute requirements
- 3. Provide your GTINs and GLNs to GHSC-PSM via the GTIN Submission Form to datasync@ghsc-psm.org
- 4. GHSC-PSM will subscribe to your GLN in the GDSN
- 5. Publish those items to GHSC-PSM production GLN 0858939007009
  - Reference the <u>GHSC-PSM Data Synchronization Implementation Guide</u> for more detailed specifications related to publication
- 6. Continue to maintain items through the data synchronization process

## **GHSC-PSM GDSN Timeline**





**USAID Global Health Supply Chain Program** 

### GS1 resources

- For a list of all GDSN-certified data pool providers:
  - https://www.gs1.org/services/gdsn/certified-data-pools
- For a list of all GS1 Member Organizations:
  - https://www.gs1.org/contact/overview
- To learn more about GS1, including implementation of the GDSN, register to attend one of the 2018 GS1 Healthcare Conferences
  - April 10 12 in Bogota, Colombia
  - May 8 10 in Addis Ababa, Ethiopia
  - October 30 November 1 in Bangkok, Thailand
  - https://www.gsl.org/healthcare/events

#### **GHSC-PSM** resources

- For more details on GHSC-PSM's requirement:
  - http://ghsupplychain.org/globalstandards
- GHSC-PSM's GDSN Landing Page:
  - http://www.lworldsync.com/customer-page/ghsc-psm/
- Key contacts:
  - GHSC-PSM Global Standards Team: globalstandards@ghsc-psm.org
  - GHSC-PSM Data Sync Team: <u>datasync@ghsc-psm.org</u>

# 1WorldSync resources

- Website:
  - http://www.lworldsync.com/
- Key contacts:
  - businessdevelopment@1worldsync.com
  - +1-866-280-4013