Partnering Around Standards for Better Care in “Rest of the World”
Introductions

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Purpose of the GHSC-PSM Project

1. Improve the provision of health commodities through global commodity procurement and logistics:
   - HIV/AIDS
   - Malaria
   - Population & Reproductive Health
   - Maternal & Child Health/Zika

2. Strengthen in-country supply chain systems through supply chain technical assistance

3. Global collaboration to engage strategically to improve long term global supply of health commodities
Project Landscape

- Providing supply chain technical assistance to 41 countries
- Supporting 58 countries through commodities procurement
- Currently sourcing from 250 suppliers
- Actively sourcing approximately 4,500 SKUs
**GHSC-PSM GS1 Global Standards Requirements**

**Phase 1**
- **30 Dec 2018**
  - **Homogenous Trade Item**
  - GS1 Data Matrix or GS1-128 barcode encoded with:
    - (01) GTIN
    - (10) Batch/lot
    - (17) Expiration Date

**Phase 2**
- **30 Dec 2019**
  - **Mixed or Partial Trade Item**
  - GS1-128 barcode encoded with:
    - (00) SSCC

**Phase 3**
- **30 June 2020**
  - **Trade Item**
  - GS1 Data Matrix encoded with:
    - (01) GTIN
    - (10) Batch/lot
    - (17) Expiration Date

**Phase 4**
- **30 June 2022**
  - **Trade Item**
  - GS1 Data Matrix also encoded with:
    - (21) Serial Number

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**All item master data submitted through the GDSN**

- (GLN Sold-From)
- (GLN Invoice-From)
- GLN Production

**Locations**

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*For more information on how to comply: [www.1worldsync.com/customer-page/ghsc-psm](http://www.1worldsync.com/customer-page/ghsc-psm)
For more information on our requirements: [http://ghsupplychain.org/globalstandards](http://ghsupplychain.org/globalstandards)*

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**Definitions:**
- **GTIN**: Global Trade Item Number
- **GLN**: Global Location Number
- **GDSN**: Global Data Synchronization Network
- **SSCC**: Serial Shipping Container Code
We have received nearly 2,000 GTINs from 81 suppliers and GLNs from more than 40 suppliers.
• As of March 2019, over 450 trade items meet our tertiary pack requirements for data carriers that meet GS1 standards

• More than 300 trade items currently meet our secondary pack requirements

• Over 120 trade items already meet secondary pack and logistic units requirements
AIDC - Challenges

- GTIN / GLN data collection
  - Manufacturing information
  - Labeling information
  - Variant information
- Packaging hierarchy data
- Brand ownership
- Multi-market packs
AIDC - Lessons Learned

- Early engagement informs implementation
- Incorporate supplier feedback
- Phased implementation works
- Seek harmonization across donors and procurement agents
GHSC-PSM GS1 Global Standards Requirements

**Phase 1**
30 Dec 2018
- GS1 Data Matrix or GS1-128 barcode encoded with:
  - (01) GTIN
  - (10) Batch/lot
  - (17) Expiration Date

**Phase 2**
30 Dec 2019
- Homogenous Trade Item
- Trade Item
- GTIN for each unit of measure
- Locations

**Phase 3**
30 June 2020
- GS1 Data Matrix encoded with:
  - (01) GTIN
  - (10) Batch/lot
  - (17) Expiration Date
- Mixed or Partial Trade Item
- Logistic Unit
- Trade Item
- GS1 -128 barcode encoded with:
  - (00) SSCC

**Phase 4**
30 June 2022
- GS1 Data Matrix also encoded with:
  - (21) Serial Number
- GS1 Data Matrix or GS1-128 barcode also encoded with:
  - (21) Serial Number
- Phase 1: Homogenous Trade Item
- Phase 2: Mixed or Partial Trade Item
- Phase 3: Trade Item
- Phase 4: Trade Item

For more information on how to comply: www.1worldsync.com/customer-page/ghsc-psm
For more information on our requirements: http://ghsupplychain.org/globalstandards

**Definitions:**
- GTIN: Global Trade Item Number
- GLN: Global Location Number
- SSCC: Serial Shipping Container Code
- GDSN: Global Data Synchronization Network

**Identify Items & Locations**
- Medical devices, Sterile Test Kits, Laboratory Reagents
- Pharmaceuticals

**Capture data on barcode label**
- GS1 -128 barcode encoded with:
  - (00) SSCC

**Share data with trading partners**
- GS1 Data Matrix or GS1-128 barcode also encoded with:
  - (21) Serial Number
- GS1 Data Matrix also encoded with:
  - (21) Serial Number

**Mandatory**
- GTIN for each unit of measure
- Locations
- GTIN for each unit of measure submitted through the GDSN

**All item master data**
- GTIN for each unit of measure submitted through the GDSN

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For more information on our requirements: http://ghsupplychain.org/globalstandards
Phase 2: Master Data [GDSN]

- GHSC-PSM is requiring master data be shared via a GDSN for use throughout the supply chain

- Examples of master data:
  - Dimensions
  - Warranty Information
  - Packaging Information
  - Pharmaceutical Information (dosage, route of administration)
  - Pallet & Logistics Units
  - Storage, Handling, and Shelf Life
  - Ingredient Information
  - Market Authorization Information
The GDSN Opportunity for Global Health
Phase 2: Current State

- Initial synchronization completed with 5 suppliers
- Master data provided for commodities across multiple categories:
  - Pharmaceuticals
  - Medical Devices
  - Laboratory Reagents
  - Laboratory Consumables
GDSN Implementation Challenges

- Test data didn’t fully reflect production data
- Supplier familiarity with GS1/GDSN
- Not all suppliers had a repository of requested master data
  - Manufacturing information
  - Market authorizations
  - Weights/dimensions
- Suppliers provided great feedback where incorporation required additional changes
GDSN Lessons Learned

• Start smaller and take a phased approach
• Accommodate slower timelines for suppliers facing challenges
• Treat suppliers as partners
• Adapt to necessary changes/feedback
• Progress is progress
How can you support us?

- Work with our suppliers/internal teams on collecting and maintaining master data
- Engage with GDSN Data Pools to ensure compliance with Phase 2 requirements
- Participate in donor-support webinars/activities
- Frequent our website for latest guidelines/forms
- Reach out to us with feedback/questions
IDA Foundation

2017 Turnover: US $743 million
Key product groups include:
- Essential medicines
- Tuberculosis
- Malaria
- Emergency response
- Reproductive, maternal, and child health
- Non-communicable diseases, including oncology
GS1 IMPLEMENTATION

Why GS1
• In response to initiative started by GHSC-PSM
• Contribute to SC transparency and patient safety
• Improve master data and warehouse handling

GS1 implementation team:
• Michiel de Goeje – Director Quality Affairs
• Henry Nieuwenhuizen – Project manager GS1
• Cross-functional team (Quality, purchase/sourcing, supply chain, IT)
Phase 1 – Approach

Goal:
- Allocate GTIN’s, share GTIN’s with suppliers and ensure proper usage and printing of the barcodes on packaging

Division of responsibilities
- Who is responsible for creating and assigning GTIN?

First focus: IDA labelled products
- First; a pilot of 9 diverse suppliers
Different level of GS1 barcoding capabilities within our supplier base
  • Seems to be country related

Replacement of existing supplier GTIN’s
  • Avoid multiple company pre-fixes within packaging hierarchy

Suppliers with large stocks of pre-printed packaging material
  • Hurdle in immediate implementation of barcodes

Items not supplied in consistent packing configurations
  • Not possible to create GTIN hierarchy
Phase 1 – Approach

Goal:
• Collect master data, upload to GDSN and share with customer

Division of responsibilities
• Only owner of GTIN can upload to GDSN

Focus:
• IDA label: Collect master data, upload to GDSN and share with customer
• Mfg. Label: Engage suppliers, work with them towards GDSN, receive data through GDSN and publish to customer
**External:**
- Worldwide not many suppliers acquainted with GDSN
  - E.g. Indian DAVA portal
  - 70 different suppliers of mfg. labelled goods

**Internal**
- Gain solid understanding of the data attributes of GDSN
- GDSN as part of our master data management structure
Next Steps
GS1 within IDA Foundation

For the coming year IDA will be exploring the following topics:

GS1 for kits

GS1 in our operations
Thank you
Asante
Shukran
Zikomo
Thank you
Meda w’ase
Cảm ơn bạn
Merci
Obrigado
Gracias
Grazie
Danke
Ngiyabonga
Mange tak