

Agenda



- Introduction
- Business Drivers
- End Objective
- Challenges
- GS1 Global Standard 1
- Towards GS1
- Pilot and POC (proof-of-concept)
- Vision

UNFPA

Delivering a world where every pregnancy is wanted every childbirth is safe and every young person's potential is fulfilled







We are the lead United Nations agency that expands the possibilities for women and young people to lead healthy sexual and reproductive lives. We are on the ground improving the lives of millions of women and young people in more than 150 countries and in humanitarian crises.





World's largest public procurer of contraceptives

RH commodities procured in 2016 over \$146M

\$93.6M Contraceptives

\$34.9M Medical equipment

\$17.5M Pharmaceuticals



Business Drivers

Visibility

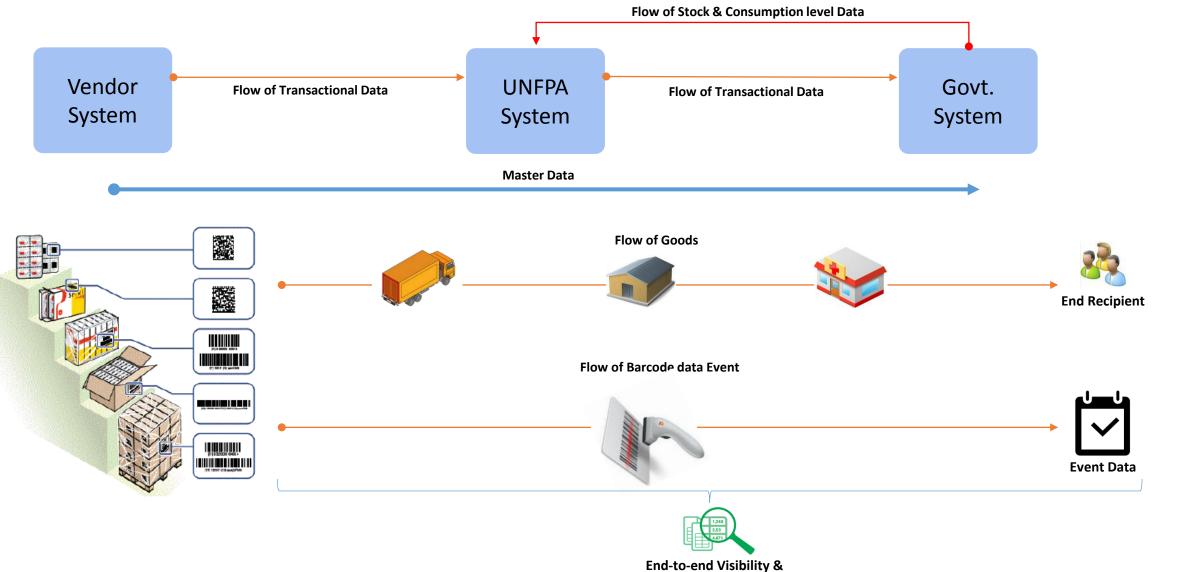
- Product identification (authentication, returns, recalls)
- Track and Trace (end-to-end)
- Stock levels in-country
- Last Mile in-country

Analytics

• Demand/Unconstraint/Constraint planning, Trends, etc.

End Objective – GS1 based



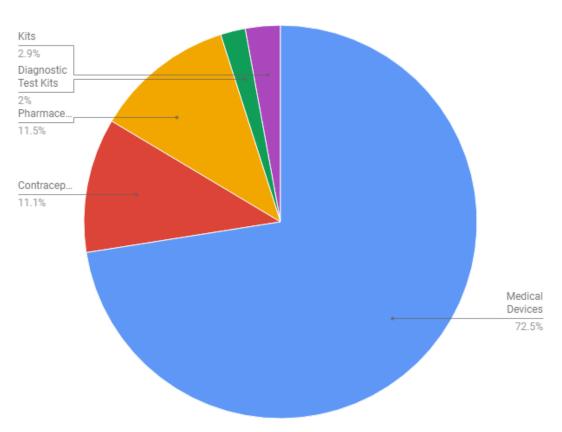


Analytics

UNFPA Product Catalogue

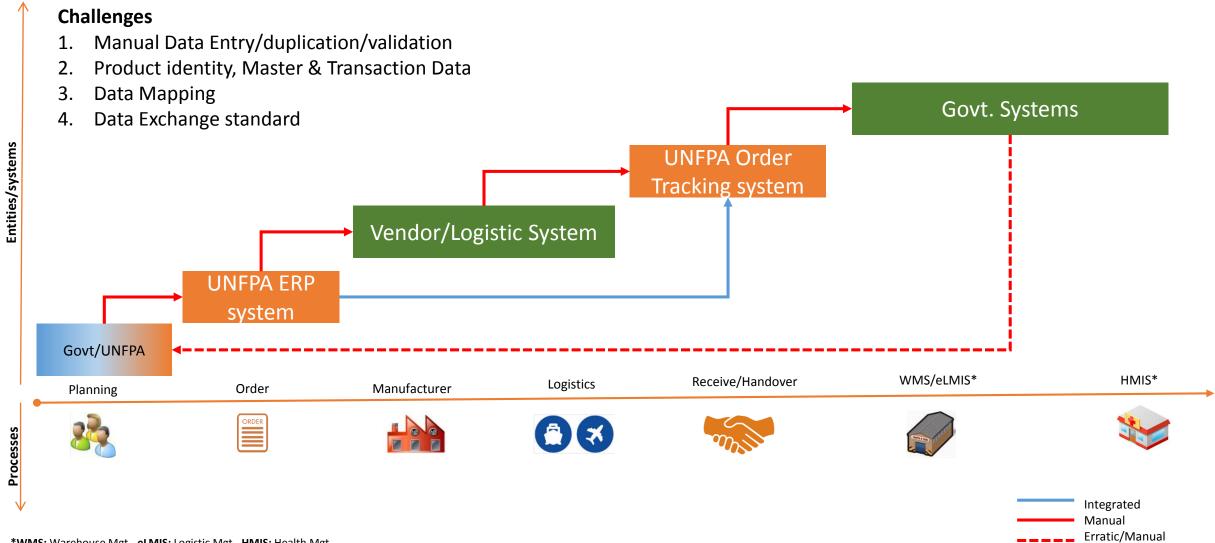






Challenges: UNFPA Supply Chain system overview





Challenges: overview















Shipment date, Batch/Lot, Expiry

Generic Item ID*



Vendor Specific Item ID



Challenges interfacing Vendors

- 1. Global setting (standards)
- 2. Unknown IT landscape

Internal Challenges

- 1. ICT landscape
- 2. Business need and alignment
- 3. Resource

Challenges interfacing Govt.

- 1. Global setting (scale, political, standards)
- 2. Unknown IT landscape
- 3. Resource

Challenges: Building block



Visibility and Analytics

Data Exchange

Mapping Data

Data Integration

Dynamic data

Order Data

Shipment data

Batch/Lot & expiry Data

Tracking Data

Static Data

Identity/Barcode Carrier

Master Data

Global Standard 1 (GS1.org)









SHARE

CAPTURE

GS1 Standards for Identification

- Company & Location: (GLN-Location)
- Product: (GTIN-Item, SGTIN-Serial)
- Logistics & Shipping: (SSCC-Container, GSIN-Shipment ID, GINC-Consignment no.
- Assets: GIAI-Asset ID, GRAI-Returnable Asset
- Service & More: GSRN-Service relation no., GDTI-Document type, GCN-Coupon number

GS1 Standards for Barcode and EPC/RFID

GS1 Barcode

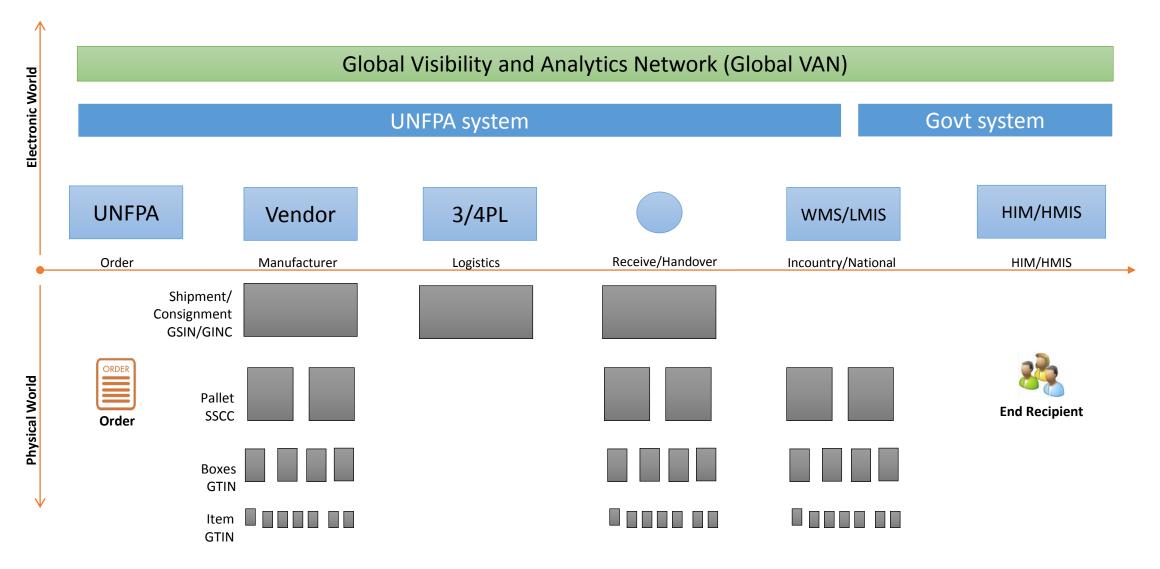


GS1 Standards for Data Exchange

- Master Data: GDSN-Global Data Sync.
- Transaction Data:
 eCom, EDI
 (EANCOM, GS1 XML)
- Event Data: EPCIS-Information Services

Physical and Electronic World – GS1





Towards GS1 – 2 approaches



Business

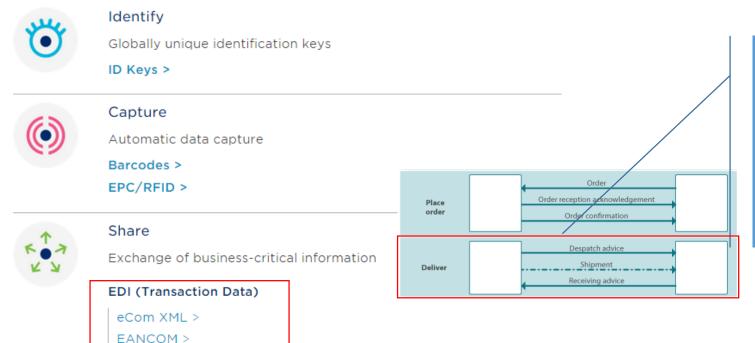
- USAID/UNFPA/GS1/Vendors, RH GTAG (advisory group)
- Identification recommendations for RH pharma products (Guideline Doc.)
- Hormonal contraceptives
- Barcode/Data submission/Serialization

Technical

- Initiate Shipment Data Exchange with Vendors
- Web services for Govt. system
- Data model & system design existing system for GS1 compliance

Towards GS1 – low hanging fruit





ASN Advance Shipment Notice (X12) Despatch Advice (GS1)

- Order Number
- Delivery Date
- Batch/Lot Number
- Expiry Date

Product Data Sharing (Master Data)

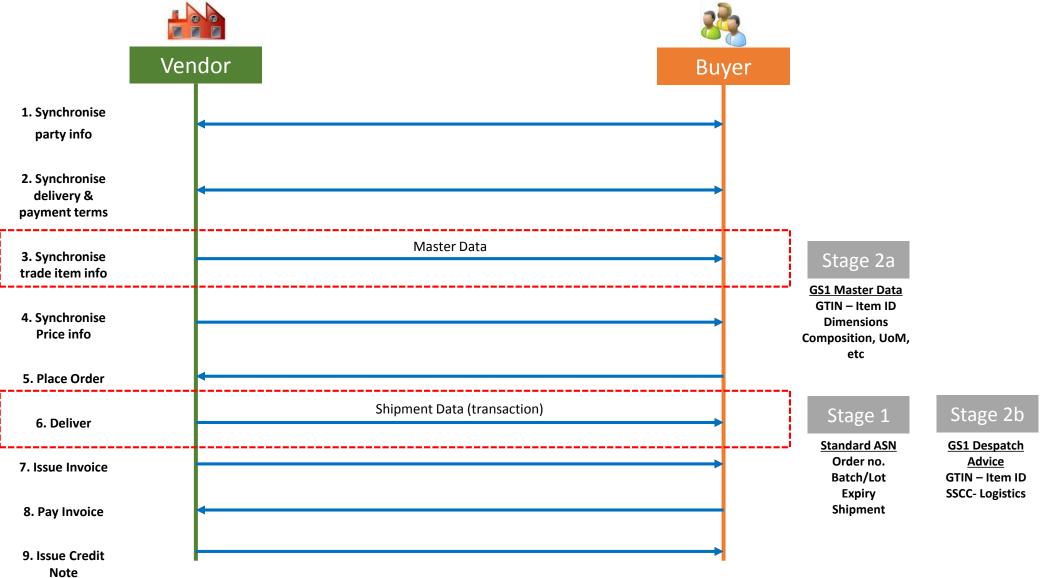
Global Data Synchronisation Network (GDSN) >
GS1 Source >
Global Product Classification (GPC) >
GTIN+ on the web >

Visibility Event Data

EPCIS and Core Business Vocabulary (CBV) >

Towards GS1 – Order to Cash









Objective

- Pilot POC to gain experience
- Automate i)shipment date, ii) Itemized Batch/Lot, iii)expiry date exchange
- Transfer electronic data exchange between **Supplier**, **UNFPA** & **Govt. LMIS** systems

POC1 delivered

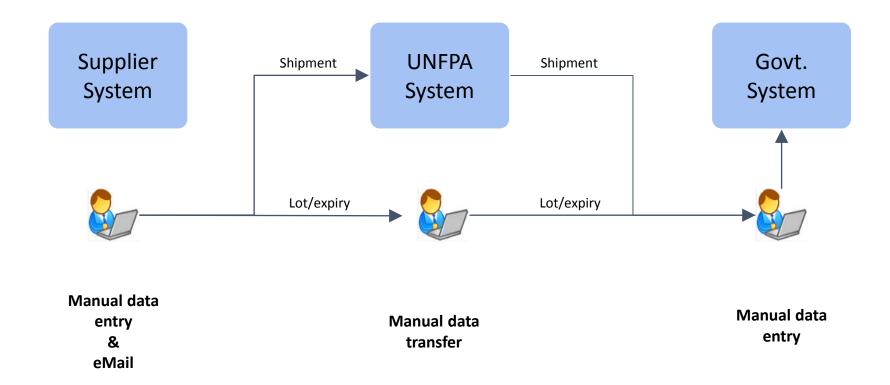
 Successful electronic shipment data from UNFPA to Ethiopia Govt. using in-house web services technology, no cost

POC2 ongoing

• Ongoing POC activity on receiving **shipment**, **Batch/Lot & Expiry data** directly from supplier system and transferring it to Ethiopia Govt. system

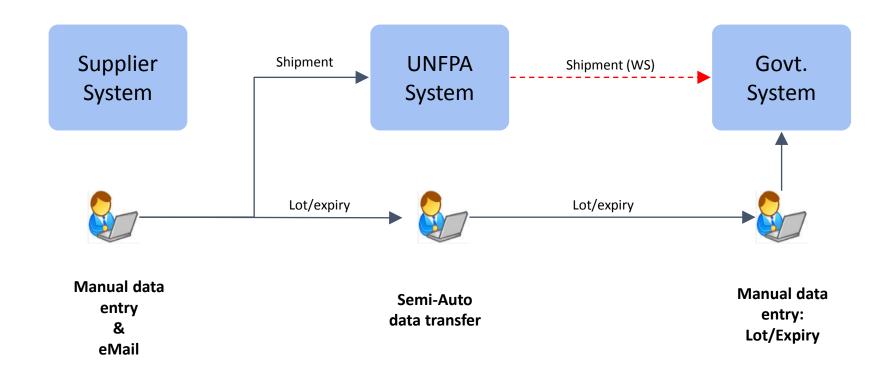
Existing - Supply Chain dataflow





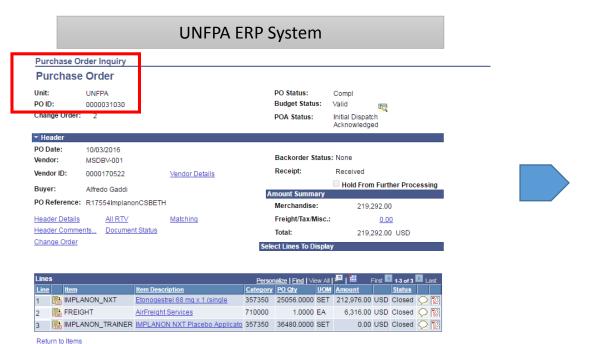
POC1 - Supply Chain dataflow



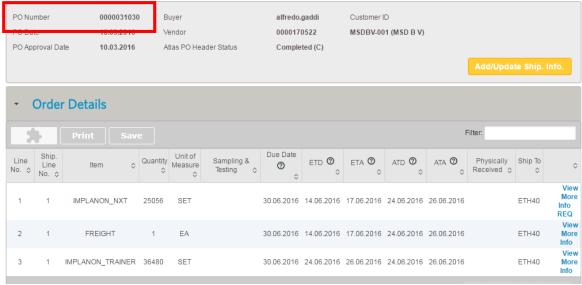


Data flow for UNFPA PO 31030





UNFPA Order Tracking System



Ethiopia Central Warehouse System



POC2 - Supply Chain dataflow





Auto data transfer of Despatch Advice (GS1) OR ASN (X12)

Vision of hybrid GS1





Govt



Transaction Data
EDI*



Agency 1







Agency 2



ncy 2

Benefit

- 1. Manual Data Entry/duplication/validation
- 2. Product identity, Master & Transaction Data
- 3. Data Mapping
- 4. Data Exchange standard



Benefit

- 1. Manual Data Entry/duplication/validation
- 2. Product identity, Master & Transaction Data
- 3. Data Mapping

Data Hub WebServices Transaction Data

In-country Data

- 4. Data Exchange standard
- 5. Reduce Cost & Reduce data source

GS1 GDSN** Data Pool

Data Pool

^{*} Electronic Data Interchange, ** Global Data Synchronization Network



Thank you