"Building Patient Safety"
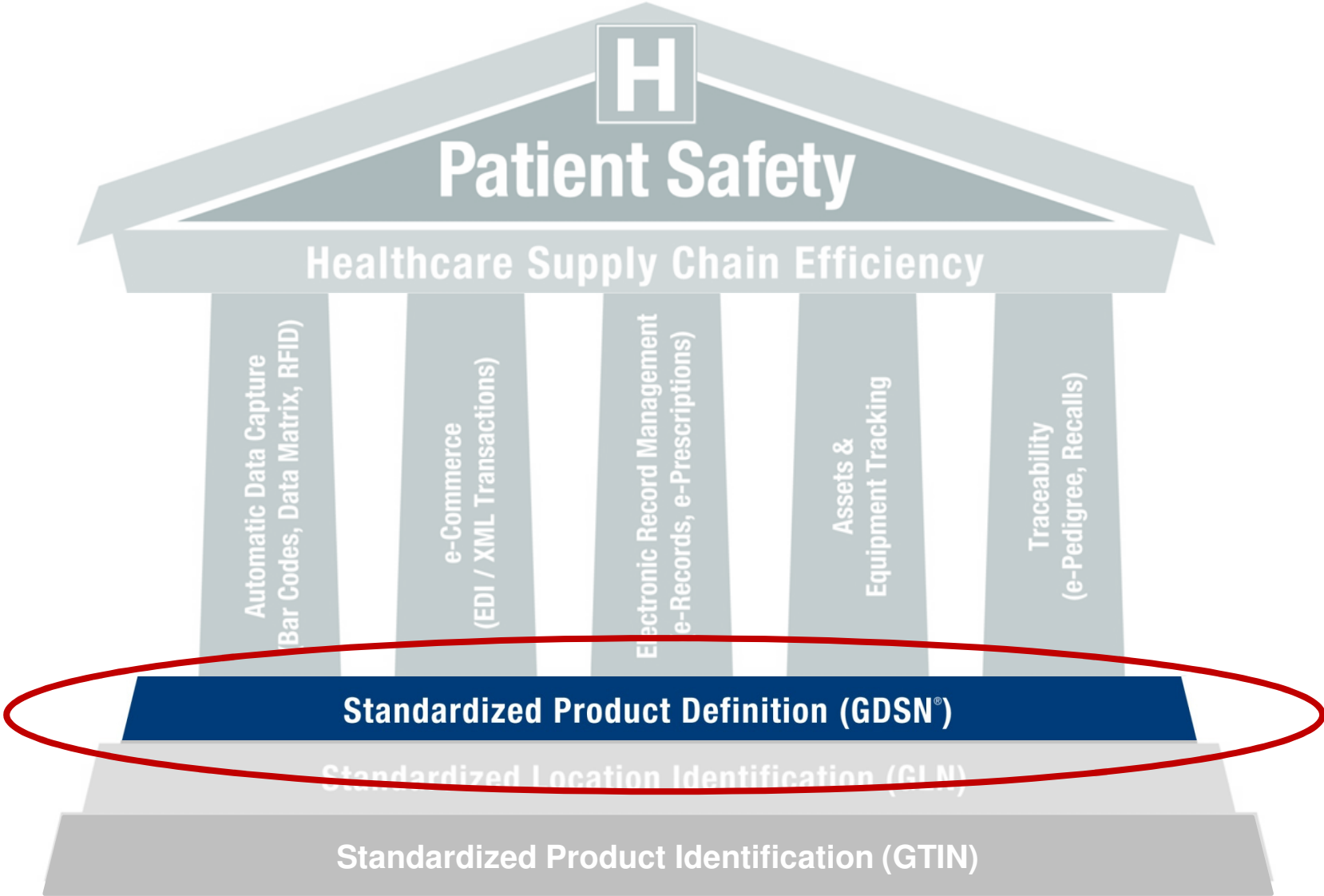
DoD Roadmap to Data Standards

## GS1 Healthcare Conference, Wash D.C.
17 June 2009

Kathleen Garvin
Program Manager
DoD/VA Data Synchronization Program

Healthcare Supply Chain Data is Broken

- **DoD Medical relies on Commercially Based Supply Chain**
  - Commercial Products & Product ID
  - Close synergy & reliance on Commercial Supply Chain

- **Healthcare Supply Chain Data Broken - Bad Data at all supply chain levels -** *DSCP's Contingency mission impacted*

- **No standard item identification in the Medical Surgical Industry**

- **Billions of dollars are lost each year due to information inefficiencies - impacts entire healthcare industry**

- **Affects RFID, FDA Device Identification, Electronic Health Record**
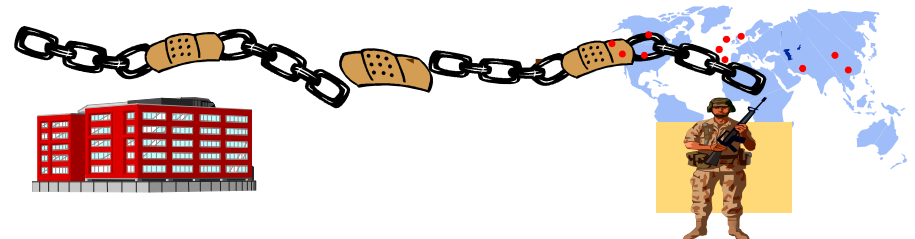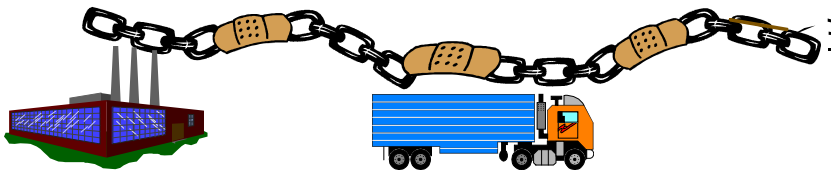
YOUR POINTING AT IT WON'T HELP - THE COMPUTER RECORDS SHOWS NONE IN STOCK.

Problem - Bad Data/Lack of Standards

In Federal supply chain, bad data due to <u>lack of data standards</u> is causing:

- **Dirty item masters**

- **Accounts Payable mismatches**

- **EDI kick outs and rejections**

- **Non-contract pricing**

- **Returns & credits for wrong items**

- **Inefficient use of resources**

- **Sub-optimized support to Warfighter**
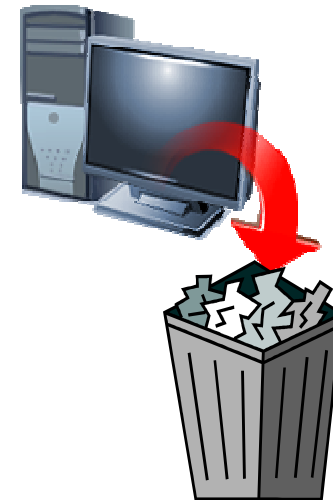
**Right data is the link to Readiness
& Patient Health / Safety !**

Solution - Federal Pathway/Roadmap to Standards

1990s	2002	2003	2004	2005	2006	2007 - 2009

DSCP UPN

PDU FEASIBILITY STUDY ARMY EZSAVE

Data Sync Tools

eZ SAVe

JOINT FED WORK GROUP

DoD PDU PILOT EZSAVE TO SVCs DEVELOP PDB

Pilot PDU

"Build Own"

DoD/VA JIF CATALOG

DoD VA JIF Program

DoD GDSN PILOT

ON-GOING EFFORTS

GLNs by 2010

GTINs by 2012
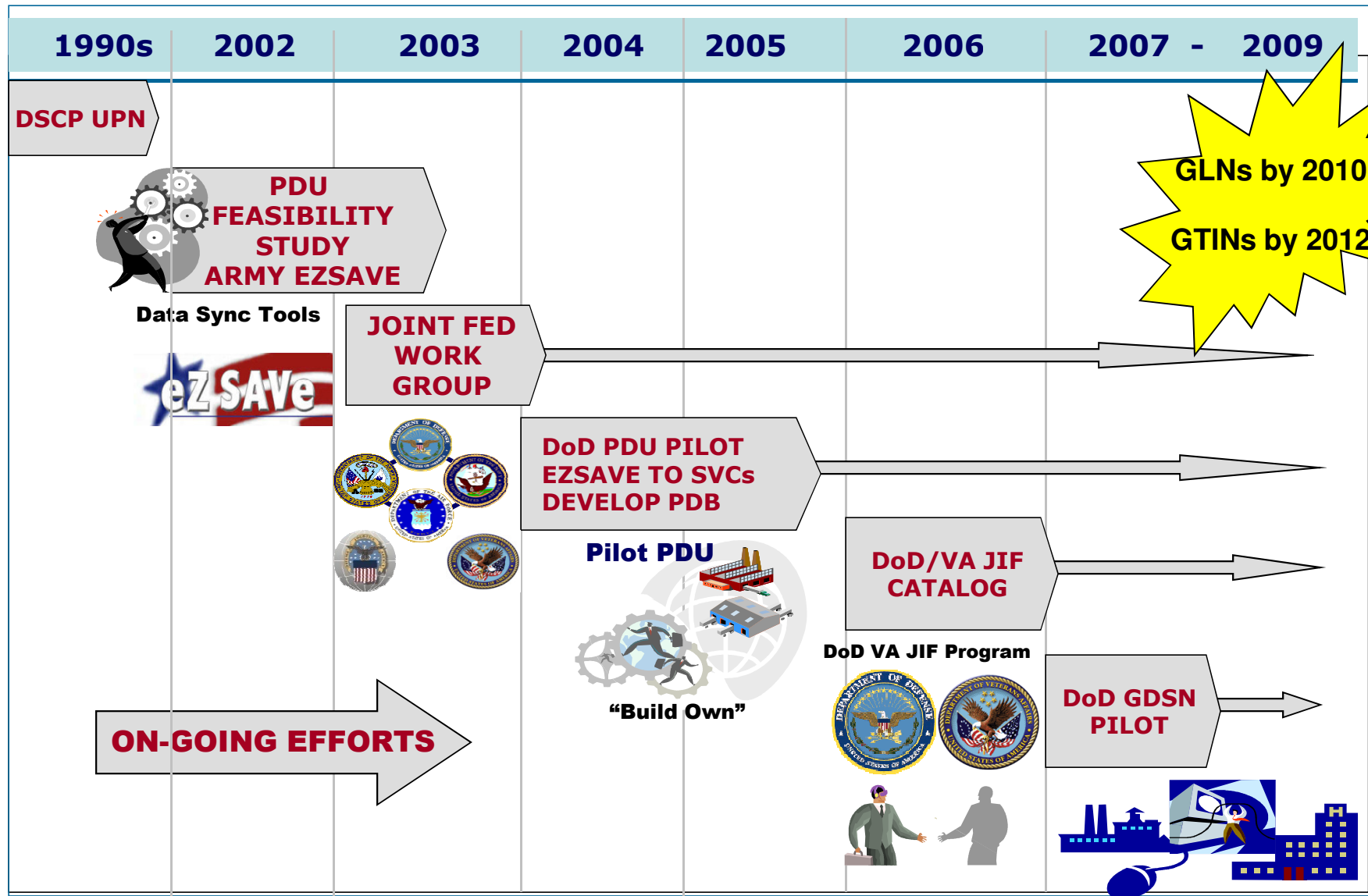
Medical Action INDUSTRIES INC.

KERMA MEDICAL PRODUCTS, INC.

HEMCON HEMORRHAGE CONTROL TECHNOLOGIES

B|BRAUN SHARING EXPERTISE

KCI

Kimberly-Clark

Johnson & Johnson HEALTH CARE SYSTEMS INC.

Medegen

CardinalHealth

Abbott A Promise for Life

MEDLINE

DeRoyal

BARD Advancing the Delivery of Health Care.®

CYPRESS MEDICAL PRODUCTS

COVIDIEN

propper

BD Helping all people live healthy lives

3M

WelchAllyn

SAGE PRODUCTS IN

bosma enterprises products · services · rehabilitation

NORTH AMERICAN RESCUE PRODUCTS INCORPORATED

Baxter

RETRACTABLE TECHNOLOGIES, INC. www.vanishpoint.com

HUNTLEIGH

OLYMPUS

OM Owens & Minor

CardinalHealth

CONSORTA

GHX Global Healthcare Exchange

PREMIER

COOK®

Proof of Principle
- Synchronization works
- Real savings of $36M+ to date

But Interim Solution ... not sustainable for long term

Industry Collaboration is Key
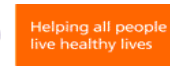
Feasibility Study

CHeS sponsored
PDU Committee → **HSCSC/NAHIT** → **GS1**

End Goal: Industry Sponsored PDU

Coalition for Healthcare eStandards

HIT ALLIANCE — Alliance HIT, Publication of The National Alliance for Health Information Technology — www.nahit.org

SMI STRATEGIC MARKETPLACE INITIATIVE

OSF HEALTHCARE — serving others with the greatest care and love

CardinalHealth

BON SECOURS HEALTH SYSTEM, INC.

MAYO CLINIC

Amerinet

ETHICON ENDO-SURGERY, INC. a Johnson-Johnson company

Carolinas HealthCare System

HIDA HEALTH INDUSTRY DISTRIBUTORS ASSOCIATION — Serving Medical Products Distributors Since 1902

LAWSON

HIMSS

OM Owens & Minor

H·C·E·C

GS1

AHRMM — Association for Healthcare Resource & Materials Management of the American Hospital Association

CONSORTA

AGFA

Agfa

BD — Helping all people live healthy lives

Novation — The Supply Company of VHA & UHC

TRINITY HEALTH — Novi Michigan

PREMIER

GHX — Global Healthcare Exchange

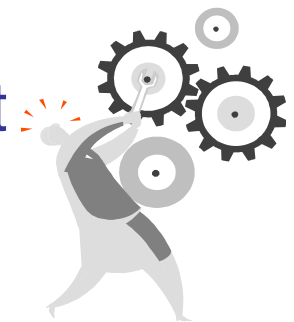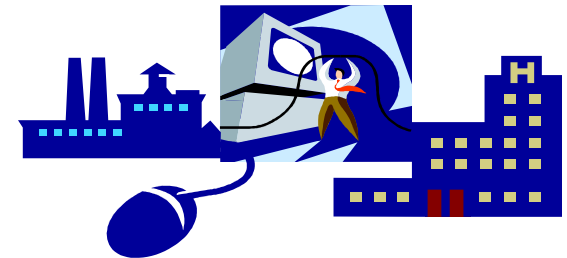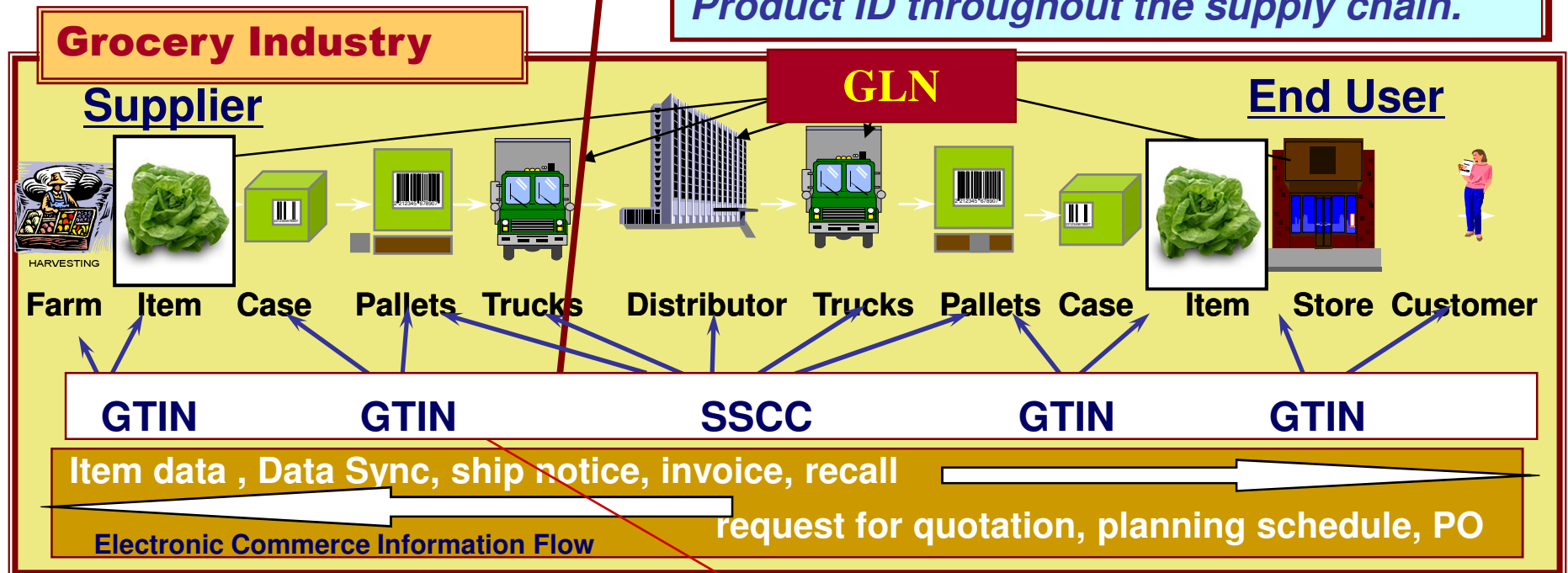HCA. — Hospital Corporation of America

Why Pilot GDSN?

- Can't do this alone – need Supply Chain Solution

- Growth of GDSN & Walmart Mandate

- Leverage existing framework

- Test feasibility as potential option for a healthcare solution

- Healthcare manufacturers active in GDSN consumer side

- Opportunity for Supply Chain to test the concept

The Solution: Same Product & Organizational ID's Other Industries

In most other industries such as the Grocery industry there is a consistent Product ID throughout the supply chain.

Grocery Industry

GLN

Supplier

End User

HARVESTING

| Farm | Item | Case | Pallets | Trucks | Distributor | Trucks | Pallets | Case | Item | Store | Customer |

GTIN   **GTIN**   **SSCC**   **GTIN**   **GTIN**

Item data , Data Sync, ship notice, invoice, recall

request for quotation, planning schedule, PO
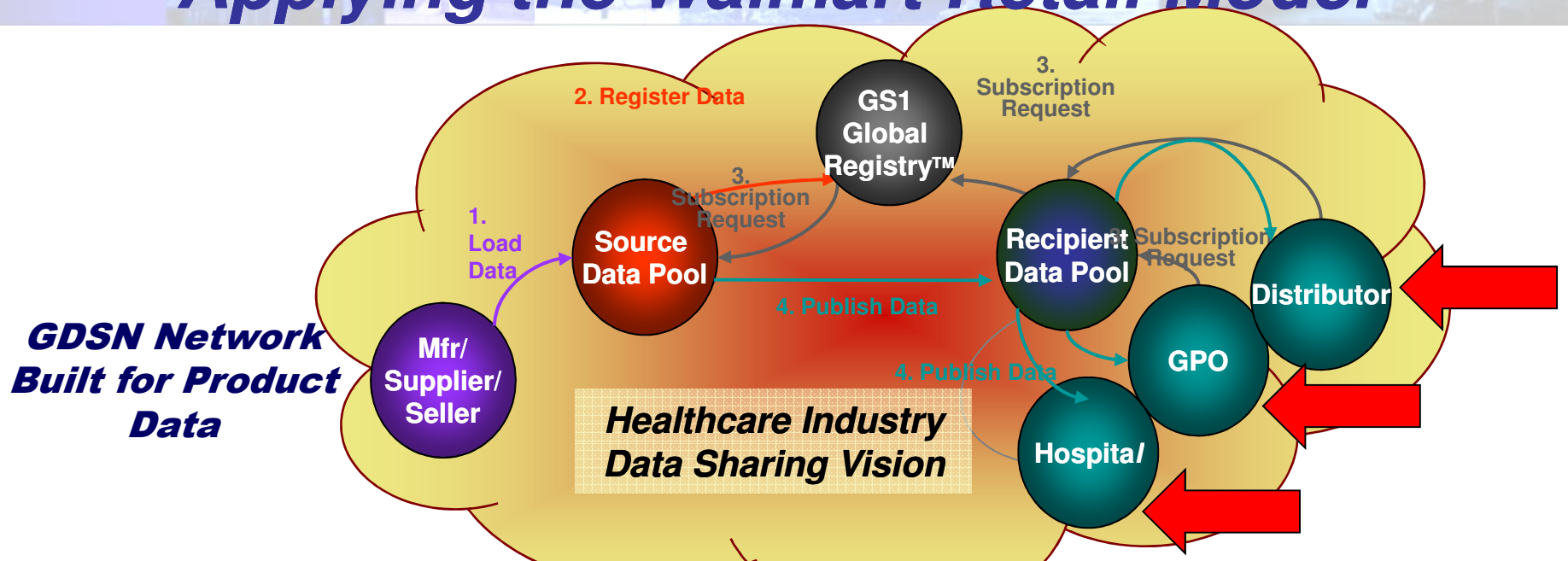
Electronic Commerce Information Flow

GTIN - *Global Trade Item Number* - Identifies trade items (products and services) sold, delivered, warehoused, and billed throughout the supply chain. **{One Identifier for products}**

SSCC – *Serial Shipping Container Code* - System identification for logistic units. Contains the GTIN identification

DoD Healthcare GDSN Pilot
Applying the Walmart Retail Model

GDSN Network Built for Product Data

2. Register Data

GS1 Global Registry™

3. Subscription Request

3. Subscription Request

1. Load Data

Source Data Pool

Recipient Data Pool

Subscription Request

Distributor

4. Publish Data

Mfr/ Supplier/ Seller

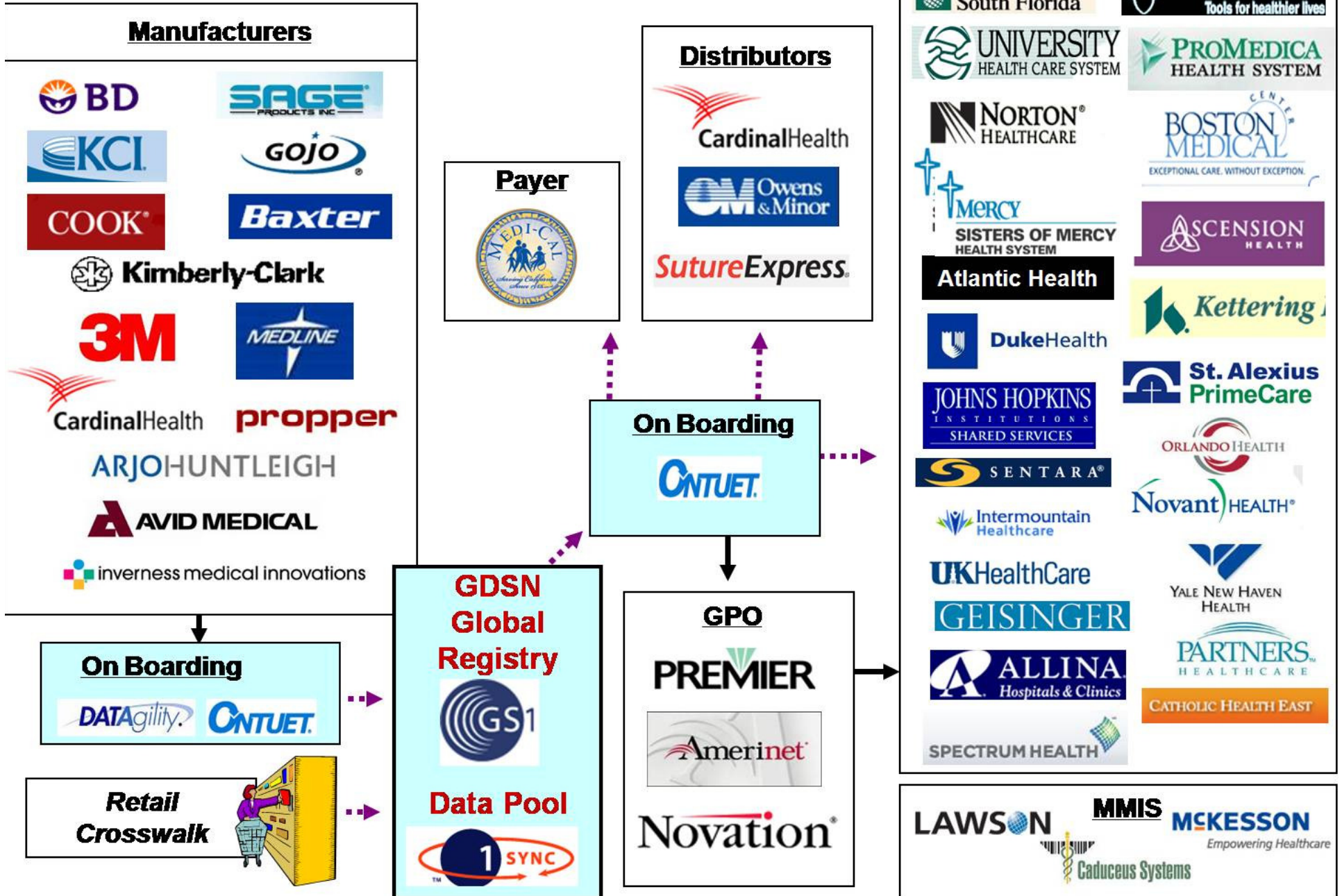*Healthcare Industry Data Sharing Vision*

GPO

4. Publish Data

Hospital

Manufacturers
- ID representative set of products
- Review field recommendations
- Select onboard method
- Gather available data
- Load manufacturer data to GDSN
- Publishes to pilot subscribers
- Gather lessons to apply to balance
- Engage internal data stewards with lessons learned

Data consumers
- Identify data collected today
- Illustrate data path for adding new items
- Conduct Gap Analysis
- Prepare test platform
- Subscribe to pilot data
- Opportunities to cleanse MMIS
- Draft future data path incorporating standard data
- Spot metric

DoD GDSN Pilot

Manufacturers

BD
SAGE PRODUCTS INC
KCI
GOJO
COOK
Baxter
Kimberly-Clark
3M
MEDLINE
CardinalHealth
propper
ARJOHUNTLEIGH
AVID MEDICAL
inverness medical innovations

On Boarding
DATAgility   ONTUET

Retail Crosswalk

Payer
MEDI-CAL

Distributors
CardinalHealth
OM Owens & Minor
SutureExpress

On Boarding
ONTUET

GDSN Global Registry
GS1
Data Pool
1 SYNC

GPO
PREMIER
Amerinet
Novation

Providers

Baptist Health South Florida
MayoClinic.com Tools for healthier lives
UNIVERSITY HEALTH CARE SYSTEM
ProMedica HEALTH SYSTEM
Norton HEALTHCARE
BOSTON MEDICAL EXCEPTIONAL CARE. WITHOUT EXCEPTION.
Mercy SISTERS OF MERCY HEALTH SYSTEM
ASCENSION HEALTH
Atlantic Health
Kettering
DukeHealth
St. Alexius PrimeCare
JOHNS HOPKINS INSTITUTIONS SHARED SERVICES
ORLANDO HEALTH
SENTARA
Novant Health
Intermountain Healthcare
UK HealthCare
Yale New Haven Health
GEISINGER
ALLINA Hospitals & Clinics
PARTNERS HEALTHCARE
CATHOLIC HEALTH EAST
SPECTRUM HEALTH

MMIS
LAWSON
Caduceus Systems
McKESSON Empowering Healthcare

GS1 Healthcare – Attributes

GDSN Data Field Recommendations for US Medical Products – 1.0

Required for each packaging level:

GTIN 14 character unique identifier for the pack level	Pack Level Indicator Is pack level an Each, Pack, Case, Pallet etc.	Manufacturer Part Number For reference, to tie GTIN to existing buyer MMIS
Manufacturer Name Manufacturer of the product	Information Provider Name and GLN of the publisher of the data	Branding Name and GLN of the brand owner and the recognized Brand Name of the product
Target Market Country where product is approved for publishing	GPC Code Is item a medical product or pharmaceutical	Package Markings Is the package marked with a batch number?
Pack Hierarchy Questions Child GTIN and quantity of next pack level	Functional Name What does this product do? Often populated with a description from manufacturer's internal code.	Descriptions* Multiple fields and lengths are available for manufacturers to publish their best descriptions
Weights and Dimensions Height, Width, Length and Weight for each pack level – acceptable to use cube root for EA level	Pack Level Questions Can this level be ordered, shipped, invoiced? Is this the base and/or consumer level?	Net Content Count of Eaches per pack level

GS1 US Healthcare with GS1 Global Healthcare user group approval has identified 40 attributes for initial implementation

codes they may have assigned to their products (UNSPSC, HCPCS)	Is packaging marked with a bar code? Is the package marked as sterile? (future)

October 15, 2008

What We Learned in GDSN Pilot

- ✓ Synchronization will require an adopt-able data set
  - Minimal attribute requirements
  - Mfr systems have attributes; not always in format required by standard
  - Attribute "creep" is unsupportable
- ✓ Outcomes
  - Mfr: minimal resources required but time line would assist setting internal priorities
  - Mfr: descriptions developed for internal use; customers modify for more utility
  - Hospital : 50% reduction in spend analysis match time
  - Hospital: replaced manual measurements by moving GDSN dimensions to warehouse mgmt system
  - GPO: streamlined 2 processes; estimated potential for $250k annual savings

What We Learned in GDSN Pilot

✓ Good data leads to the desire for more good data

✓ Pilot efforts have complemented parallel industry efforts

✓ MMIS providers are in various stages of readiness

✓ Middleware functionality needed to support industry synchronization

✓ Awareness and sharing of data challenges and workable remedies (40 + participants)

GDSN Pilot Provided….

✓ Manufacturers a view into provider processes and the impacts of non-standard data on the supply chain

✓ Process for buy side participants to quickly confirm that standards are applicable to their needs

✓ Leverage for GS1 Global Pilot with DoD Pilot participants' experience

"Boot-camp" for trading partners to test & learn

DoD will Follow Industry's Lead
Next Steps

Healthcare Industry Timelines have set the stage for:
- Subscribing to standardized production data
- Adapting systems to accommodate GTIN/GLN fields
- Leveraging industry momentum to better support the Warfighter

Industry on the Path to Success

GLNs 2010 GTINs 2012 GDSN