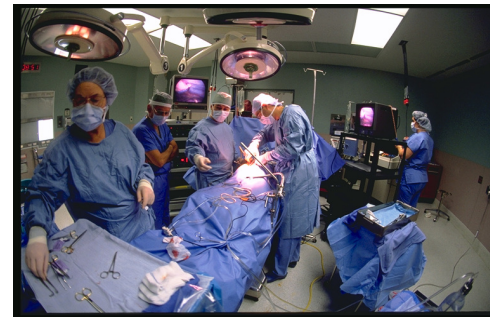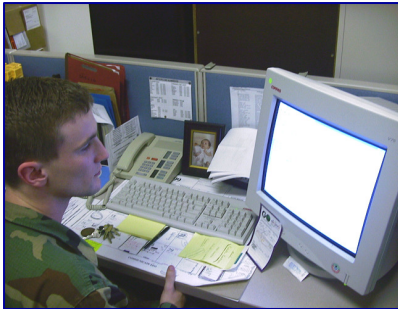# *Healthcare Product Data Utility*

The Path to Data Quality

GS1 Healthcare Users Group 4-6 June 2006

Kathleen Garvin
Program Manager, DoD/VA Data Synchronization
Defense Supply Center Philadelphia
(kathleen.garvin@dla.mil)
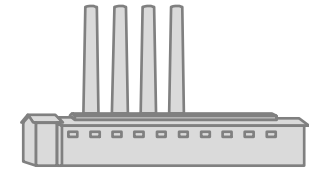**215-737-9092**

How We Get Data Now

- **Manufacturer**

  – Generates product data to sell and market products

- **GPO & Distributor**

  – Changes/creates/manipulates data to meet customer base / regional needs

- **User – Provider**

  – Creates internal data item masters/catalogs in order to identify products, request & fill patient needs

Problem is ...

- *No consistent data standards throughout supply chain*
- *Inaccurate & bad data at all levels*
- *Customer pays the price for bad data - $$$$*

Road to a Solution...

PDU Organizing Committee

DoD & Industry PDU Pilot Phase I

DoD & Industry GDSN Pilot

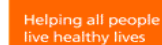**To Reach End Goal: Industry PDU**

PDU Industry Organizing Committee

✓ **Organizing Committee established Feb 05**

✓ **Outreach, Education, Marketing, Networking – expand participation**

✓ **Draft RFI Developed**

✓ **Working Groups**

DoD Pilot PDU – Phase I

Manufacturers (23)

Distributors GPO's & Data Exchange (5)

✓ **Proof of Principle for Industry**

✓ **Manufacturer as source of data**

Active Federal Collaboration

Synchronizing the Federal Medical Supply Chain

- **Working Group**
  - **Army, Navy, AF, DMLSS, DSCP, VA, JMAR, DMSB, ASD/HA, DLIS, HHS**

- **Partnership with FDA on UDI**

- **DoD / VA JIF Data Synchronization partnership**

FDA U.S. Food and Drug Administration | U.S. Department of Health and Human Services

DoD Lessons Learned

- DoD's UPN Initiative 1993
  - Assignment of numbers without a process in place to certify and distribute does not work

- Cleaning and standardizing in-house data is not enough.
  - Very expensive to constantly cleanse data – not the answer
  - Adopt standards
  - Adoption of an industry PDU is the way to achieve quality medical product data for the entire healthcare community

- Synchronizing and accessing data from central utility:
  - Reduces bad data
  - Reduces costs
  - Increases operational efficiencies

Industry PDU…a Better Way

- **Criteria**

  - Unique product registry for validated basic information

  - Capable of transmitting Healthcare specific attributes

  - Governance mechanism to set standards and govern operability

  - Global reach and partnership

- **Existing commercial solution GDSN**

  - Eliminates major unknowns for transition to Industry PDU

  - Established systems network platform for sharing synchronized data used by major US industries, e.g. Wal-Mart, Lowe's, etc

  - Facilitates implementation of RFID and potential use of GLNs

  - Many major healthcare mfrs already active participants in GDSN for retail

PDU

MANUFACTURERS   GPOs

DISTRIBUTORS

Data Synchronization:
How Does It Work?
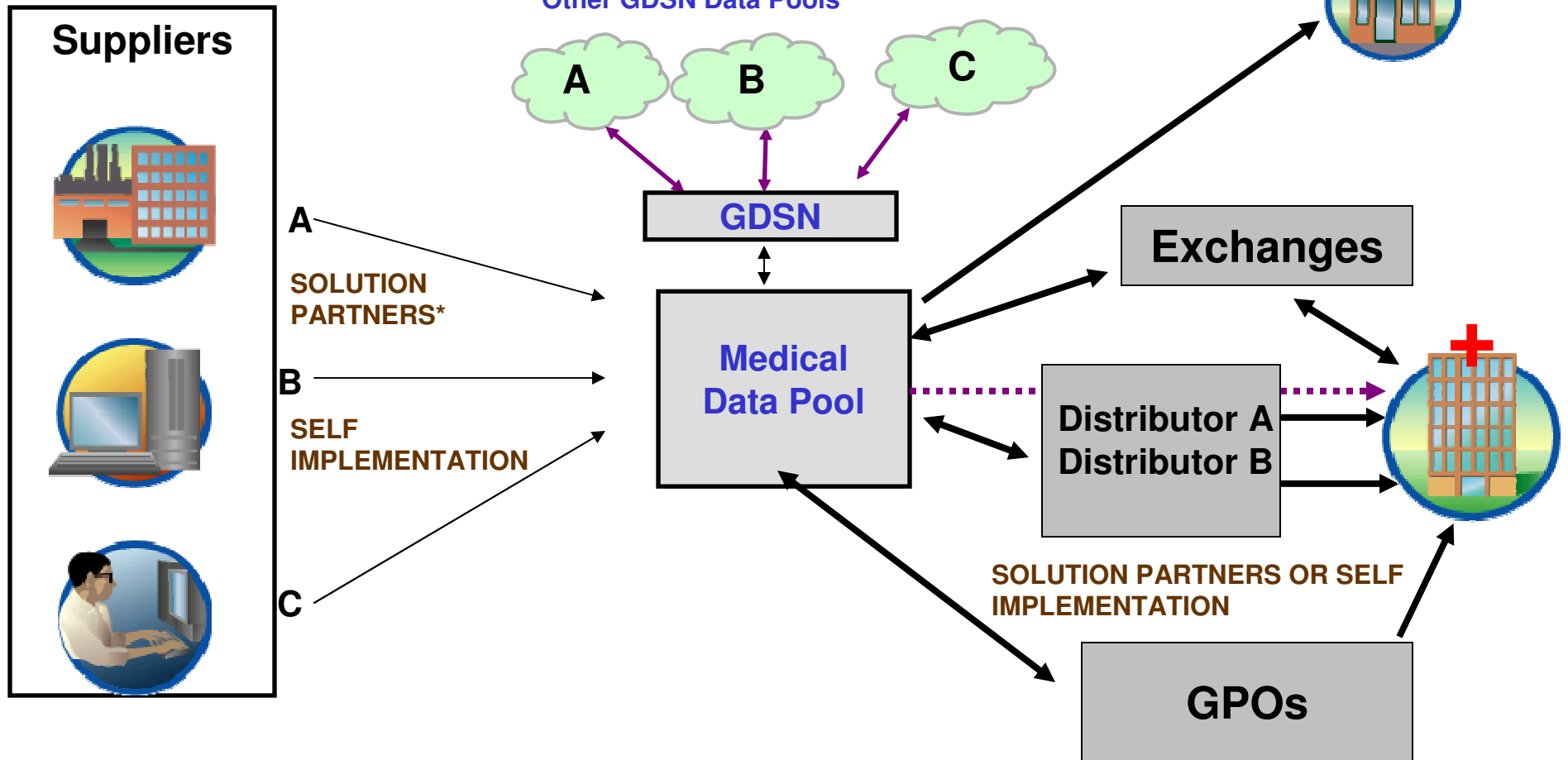## The Wal-Mart Approach Using GDSN
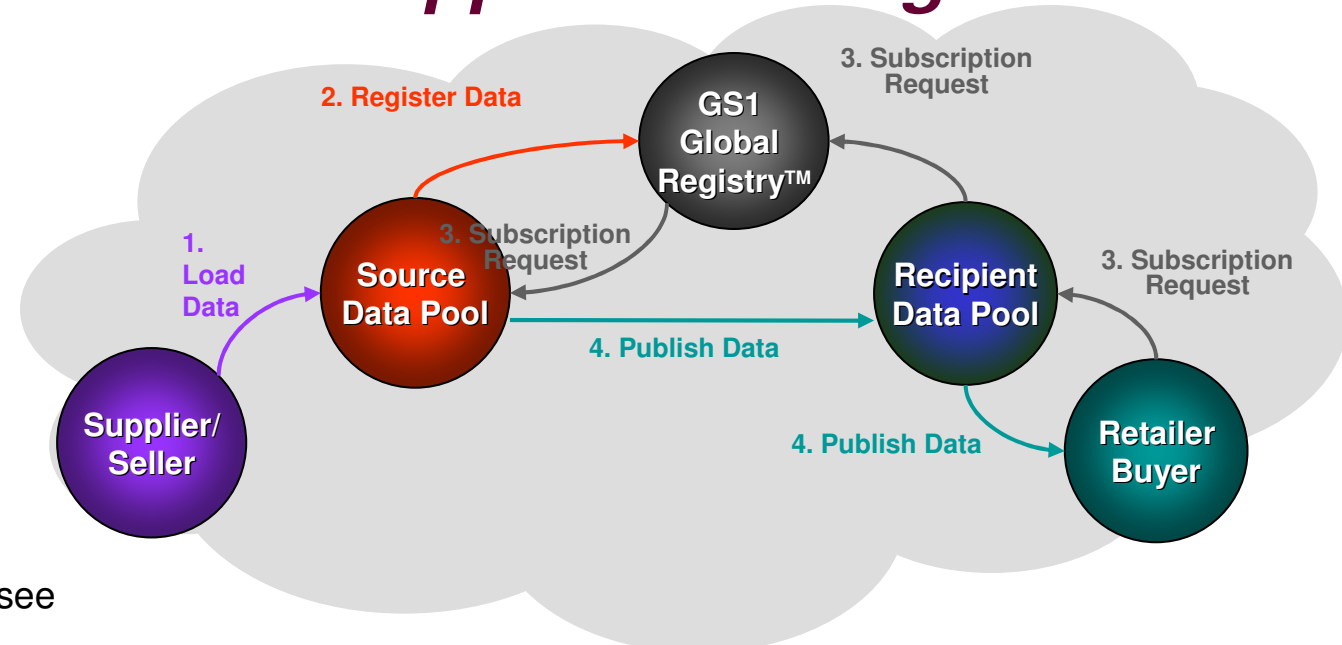
Network Built for Product Data

- **Data Privacy**
  - Suppliers only
  - publish what they
  - want recipients to see
- **Data Quality**
  - Automated product data validations occur at multiple levels within the process
  - Corrections are made only once, then all benefit from that correction
- **Ease of Use**
  - A single product entry can be published to an unlimited number of end users, distributors and retailers

- *Competition*
  - GDSN is unique in allowing competing data pools to work in the network together
- *Worldwide Scope*
  - Data pools around the world can communicate with each other
  - Native languages supported

DoD GDSN Pilot Concept

Other GDSN Data Pools

A   B   C

GDSN

Suppliers

A

SOLUTION PARTNERS*

B

SELF IMPLEMENTATION

C

Medical Data Pool

Exchanges

Distributor A
Distributor B

SOLUTION PARTNERS OR SELF IMPLEMENTATION

GPOs

GDSN as potential healthcare PDU solution

Healthcare GDSN Pilot Phase II A Execution & Participants

Manufacturers (BD, Sage)

GDSN

Global Registry

1SYNC Data Pool

On Boarding Partner (Ontuet)

Manufacturer Loading

- 10 items from Sage
- 11 items from BD
- *Documentation of Challenges and Lessons Learned*

On Boarding Partner (Ontuet)

GPO (Premier)

Provider Data Receipt

- Premier receives data via GDSN
- Distributes to Baptist into Lawson

Hospital (Baptist / Lawson)
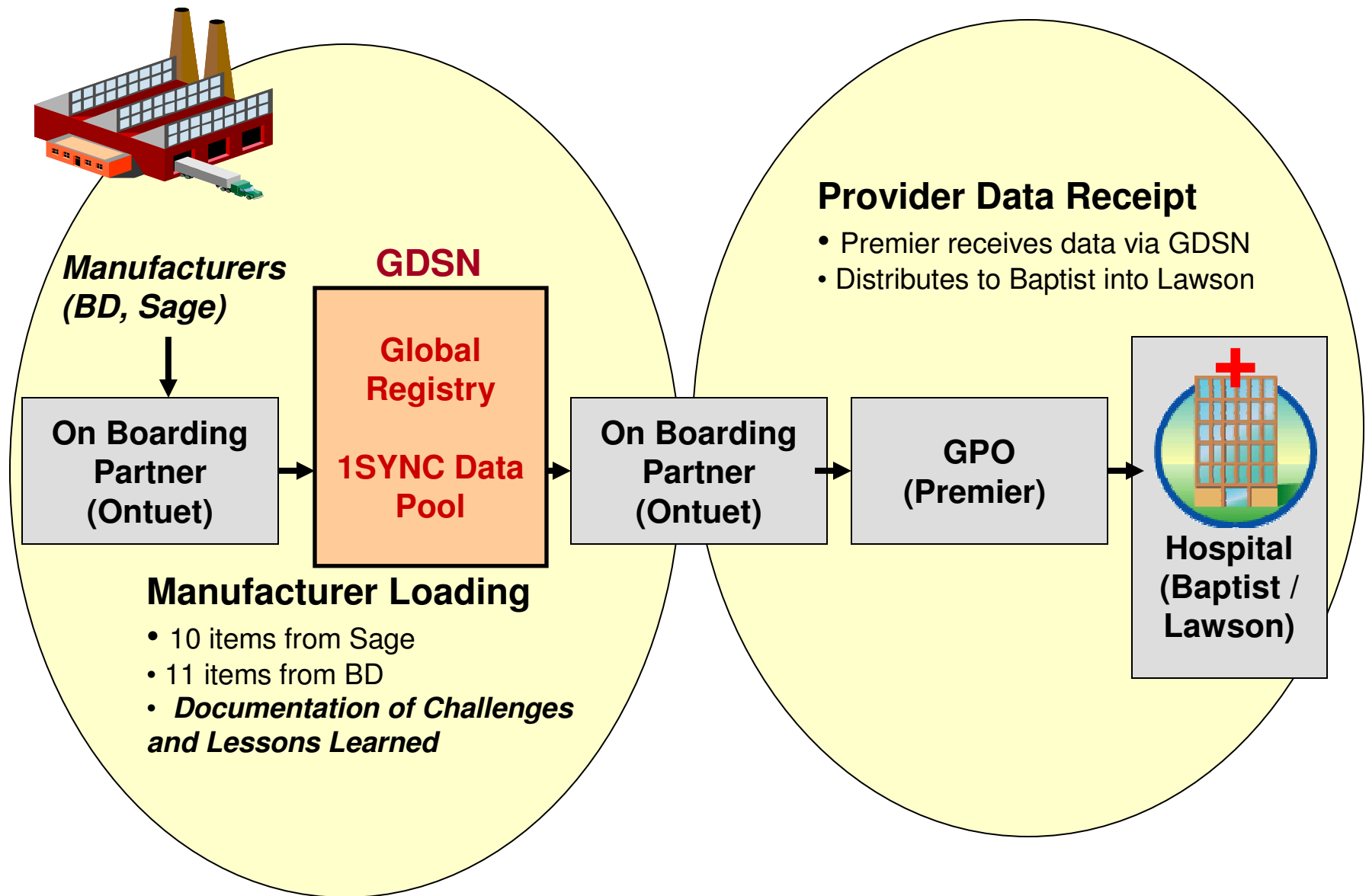
What We Accomplished in GDSN Pilot Ph II A

• Systematically passed validated manufacturer item to trading partner business systems

• Identified data sources for mandatory GDSN fields in existing systems

• Identified top healthcare data fields desired by participants

• Mapped GDSN fields to existing participants' system fields

• In the process of documenting resource, system, and process requirements to share data throughout supply chain

Goal: Test the Suitability of GDSN as a Potential Industry PDU
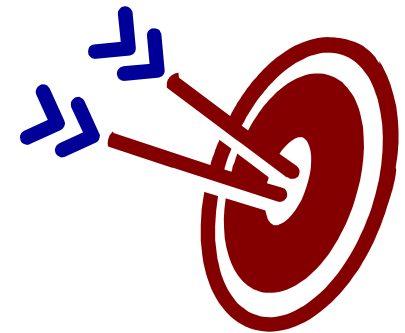
What We Learned so far…

Manufacturer:
- Have data, just not in one place – need an internal product data strategy
- Need for an Industry-wide product data strategy
- Global impact on decisions

GPO:
- Can consume GDSN data with minor changes to current system
- Minor enhancements required to deliver GDSN data using existing delivery system
- Well positioned to provide standards based integration approaches beyond current delivery mechanism

Software Provider:
- Internal business systems have many of the fields, technology and processes to get started with data synchronization
- Long term, they will need to be further adapted for new processes driven by the GDSN
- Processes exist for managing GDSN communications outside of ERP

Hospital:
- Can use data for spend analyses
- Project significant savings in reconciliation of GPO and distributor item files
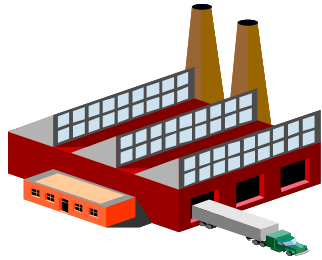
What Do We Need to do Next?

- Grow pilot by increasing participants and scenarios

- Build on Lessons learned from earlier participants (Mfrs, GPOs, IDNs)

- Add Distributor needs/challenges to pilot test

- Collaborate on next best steps

Goal: Test the Suitability of GDSN as a Potential Industry PDU

Healthcare GDSN Pilot Phase II B Potential Participants

Goals:
- Add manufacturers and/or items
- Test with additional provider systems
- Add additional supply chain partners

MMIS System Lawson etc
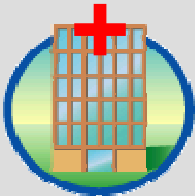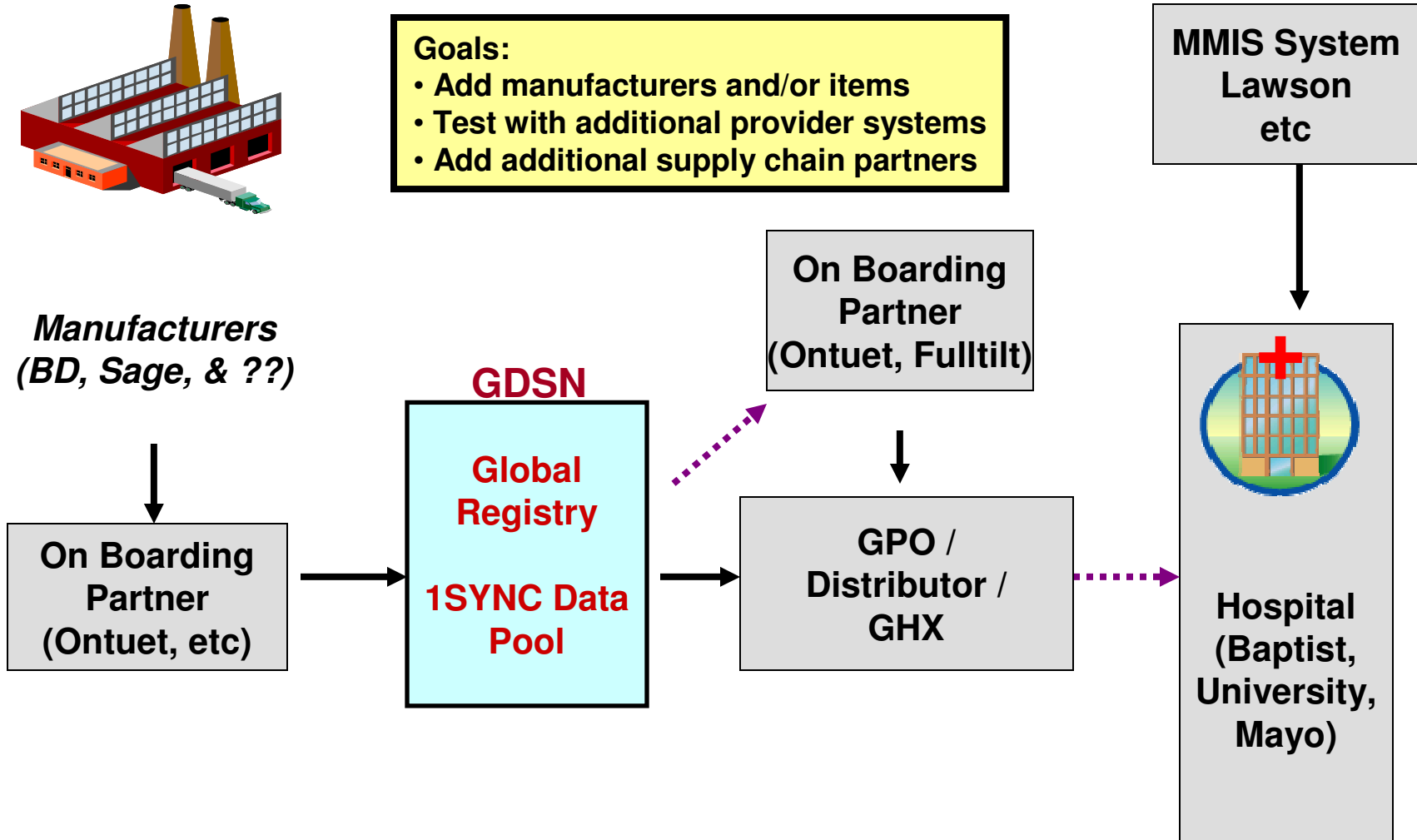
Manufacturers (BD, Sage, & ??)

On Boarding Partner (Ontuet, Fulltilt)

GDSN

Global Registry

1SYNC Data Pool

On Boarding Partner (Ontuet, etc)

GPO / Distributor / GHX

Hospital (Baptist, University, Mayo)

Where Are We Going?

- **Continue building Proof of Principle & Industry Collaboration**

    – *Build upon GDSN test pilot participation as PDU venue*

    – **Explore Industry solutions with PDU Organizing Committee**

    – **Work with standards organizations (CHeS, HSCSC, GS1 HUG) to promote global standards**

End Point = Industry Solution / PDU