Global Data Synchronization Network (GDSN) Overview

HUG Meeting, Minneapolis, MN

13 June 2006

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Topics

- GS1 GDSN, Inc. Organization Overview

- What is the GDSN
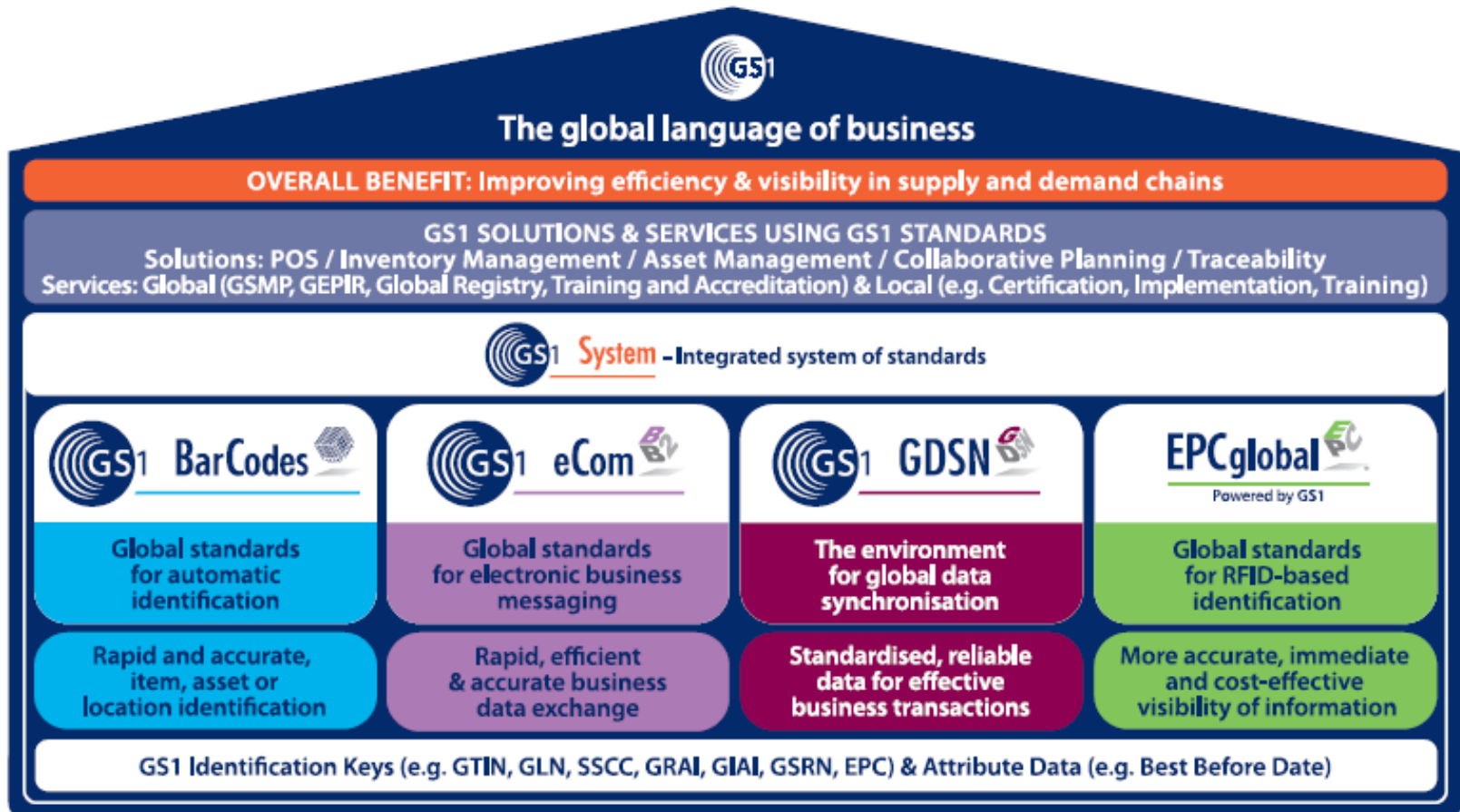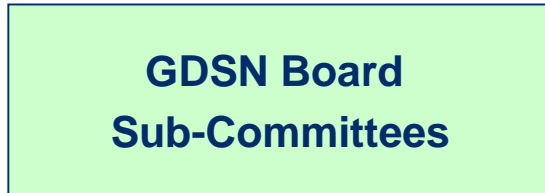
- GDSN Benefits

- Recommended Next Steps

The Organization

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GS1 and the Business Units

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OVERALL BENEFIT: Improving efficiency & visibility in supply and demand chains

GS1 SOLUTIONS & SERVICES USING GS1 STANDARDS
Solutions: POS / Inventory Management / Asset Management / Collaborative Planning / Traceability
Services: Global (GSMP, GEPIR, Global Registry, Training and Accreditation) & Local (e.g. Certification, Implementation, Training)

GS1 **System** – Integrated system of standards

GS1 **BarCodes**	GS1 **eCom**	GS1 **GDSN**	**EPCglobal** Powered by GS1
Global standards for automatic identification	Global standards for electronic business messaging	The environment for global data synchronisation	Global standards for RFID-based identification
Rapid and accurate, item, asset or location identification	Rapid, efficient & accurate business data exchange	Standardised, reliable data for effective business transactions	More accurate, immediate and cost-effective visibility of information

GS1 Identification Keys (e.g. GTIN, GLN, SSCC, GRAI, GIAI, GSRN, EPC) & Attribute Data (e.g. Best Before Date)

GS1 GDSN, Inc. Governance

GDSN
Board of Directors

GDSN Board Sub-Committees	**GS1 GDSN Inc. (GS1 Business Unit)**	**GDSN User Group and GSMP Task Group**
Governance Policies	Business Unit Management for Registry, Certification and GPC	User Business Requirements for GSMP Standards and Implementation

GDSN Board of Directors

Randy Salley (Wal*Mart) Certification Committee Chair	**Neil Cameron (Unilever)** Chairman
Ruud van der Pluijm (Royal Ahold) Finance Committee Chair	**Dave Hutchins (Kraft)** Data Pool Advisory Council Chair
Colin Cobain (Tesco)	**Milan Turk (P&G)** Communications Committee Chair
Michel Eeckhout (Delhaize Group)	**Tahira Hassan (Nestle)**
Marianne Timmons (Wegmans)	**Lori Bigler (Smuckers)**
Frederic Beyneix (Carrefour)	**Maria Palazzolo (GS1 Australia)**
Sylvester Macho (Metro)	**Rafael Florez (GS1 Colombia)**
Sally Herbert (GDSN, Inc.)	**Pierre Georget (GS1 France)**
Ross Curtis, GXS	**Jorg Pretzel (GS1 Germany)**
Christopher Sellers, Agentrics (WWRE)	**Mike Di Yeso (GS1 US)**

GDSN Growth (Jan 2005 – Jun 20060

	Jan 2005	Feb 2006	Jun 2006
Active Data Pools	4 (10 Certified)	7 (26 Certified)	9 (23 Certified)
Subscribers / Users	200	3,778	**Over 9,000**
GTINs (Items) Registered	180,000	479,000	588,000
GTINs (Items) Coded with Valid GPC (classification) Codes		307,000	354,000

Note 1: GDSN Statistics Report is available on www.gs1.org web site under GDSN area. Includes full list of all GS1 Global Registry subscribers.

Global Data Synchronization Network

- The GDSN is an Internet-based, interconnected network of interoperable data pools and a Global Registry

- The GS1 Global Registry enables companies around the world to exchange standardised data with their trading partners.

What is GDSN?
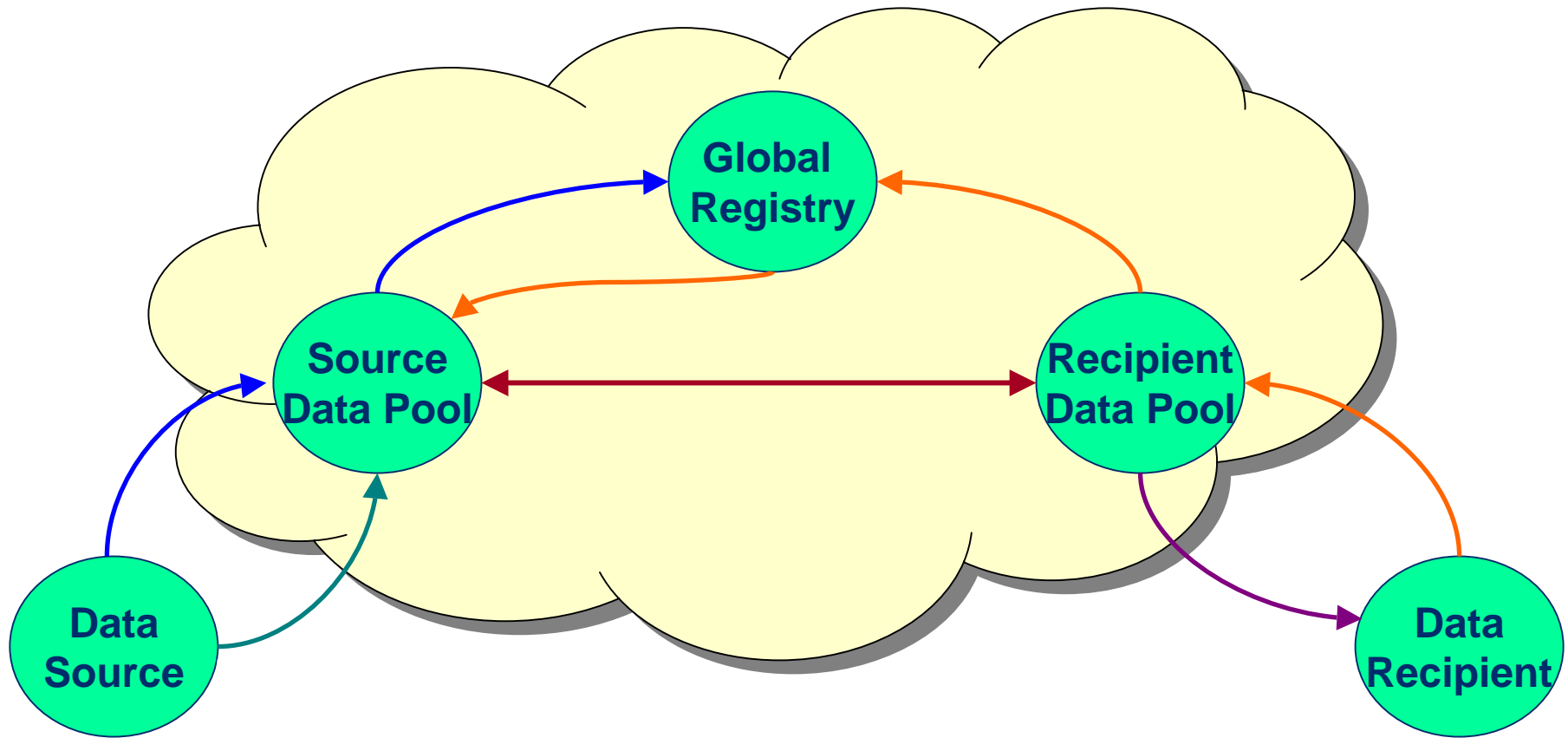
The GDSN consists of:

- **Trading Partners**: Suppliers, retailers, wholesalers, logistics service providers, etc.

- **Data Pools** Service providers that hold and process item and trading partner data

- **The GS1 Global Registry**: A worldwide directory to help the GDSN community locate data sources and manage ongoing synchronization relationships between trading partners

The GS1 Global Registry

- Provides Validation Services to ensure uniqueness and basic GTIN and GLN rules

- Contains basic Party information to identify the participants and their roles

- Does <u>not</u> contain all trade item information

- Is <u>not</u> the world repository of all trade item information

Key Components

- GTIN: Item information including attributes controlled by the brand owner/data source (e.g.., dimensions, weights)

- GLN: Location information including locations involved in trade (e.g.., headquarter, billing, ship to)

- GPC: Global Product Classification
  - A mandatory classification system in the GDSN
  - A rule set based structure (not product identification or description)
  - The Brick identifies a category incorporating trade items

GDSN Benefits

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Benefits of the GDSN

GDSN:

- Provides **standardised, reliable data** for effective business transactions in both local and global markets, **driving costs out of the supply chain**

- Ensures that **trading partners and the data pools work in a standardised way** thereby reducing duplicate systems and processes

- Ensures that **item data is updated and consistent** between trading partners

- **Validates accuracy of data** against standards and business rules

GDSN:

- Reduces costs by **minimizing or eliminating** non-value-added manual processes

- Save costs through efficiencies in **logistics, accounting and inventory**

- Provides a process to **start cleaning your data** via targeted implementation

- **Foundation for electronic collaborative commerce** initiatives such as the Electronic Product Code™ (EPC). The EPCglobal Network™ relies on the accurate data exchanged through global data synchronization.
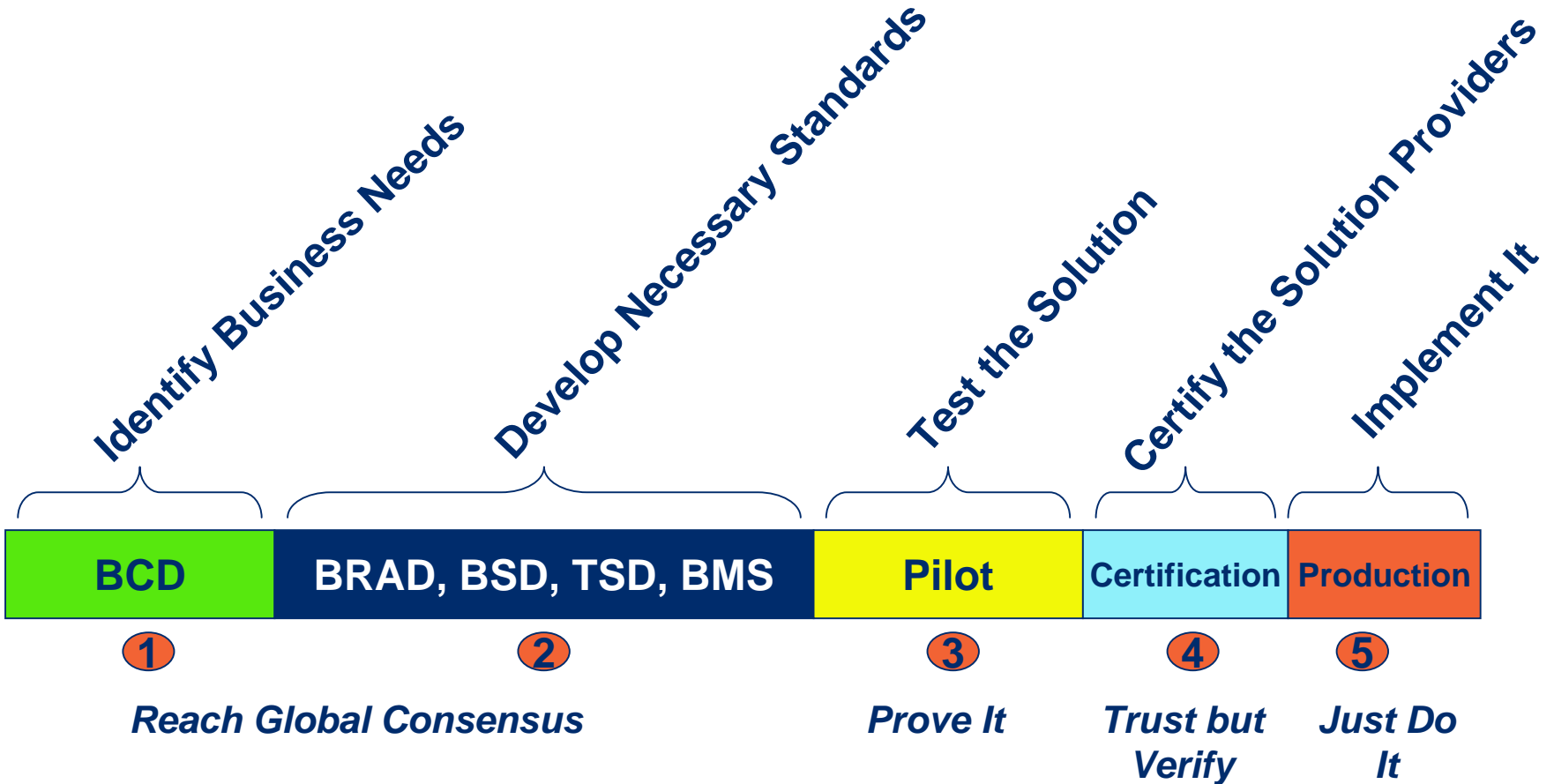
Recommended Next Steps

- *A few Acronyms:*
  - BCD: Business Case Document
  - BRAD: Business Requirements Analysis Document
  - BSD: Business Solution Document
  - TSD: Technical Solution Document
  - BMS: Business Message Standard
  - GR: GS1 Global Registry
  - GTIN: Global Trade Item Number
  - GLN: Global Location Number
  - GSMP: Global Standards Management Process

GS1 GDSN

Identify Business Needs

Develop Necessary Standards

Test the Solution

Certify the Solution Providers

Implement It

BCD	BRAD, BSD, TSD, BMS	Pilot	Certification	Production

1   **2**   **3**   **4**   **5**

Reach Global Consensus   *Prove It*   *Trust but Verify*   *Just Do It*

Recommended Next Steps

1. Form a HUG/GDSN work group *(the collaboration)*

2. Identify the project champion(s) *(person with the passion)*

3. Identify the project team *(users who would implement)*

4. Define the high level business need *(step 1)*

5. Develop the necessary standards *(step 2)*

6. Test the standards via a pilot *(step 3)*

7. Certify Data Pools and the GS1 Global Registry™ on the approved standard *(step 4)*

8. Implement the solution *(step 5)*

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