# GS1
# One Global Standard interacting with another Global Standard

**Christian Hay**
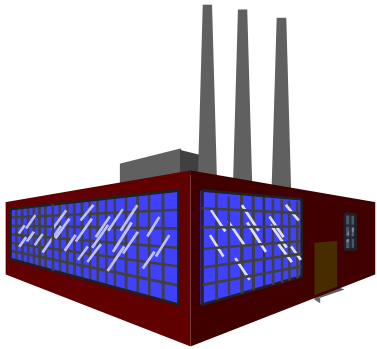
**GS1 Healthcare**

# Interoperability, where others meet others

GS1 Identification keys

GS1 eCom
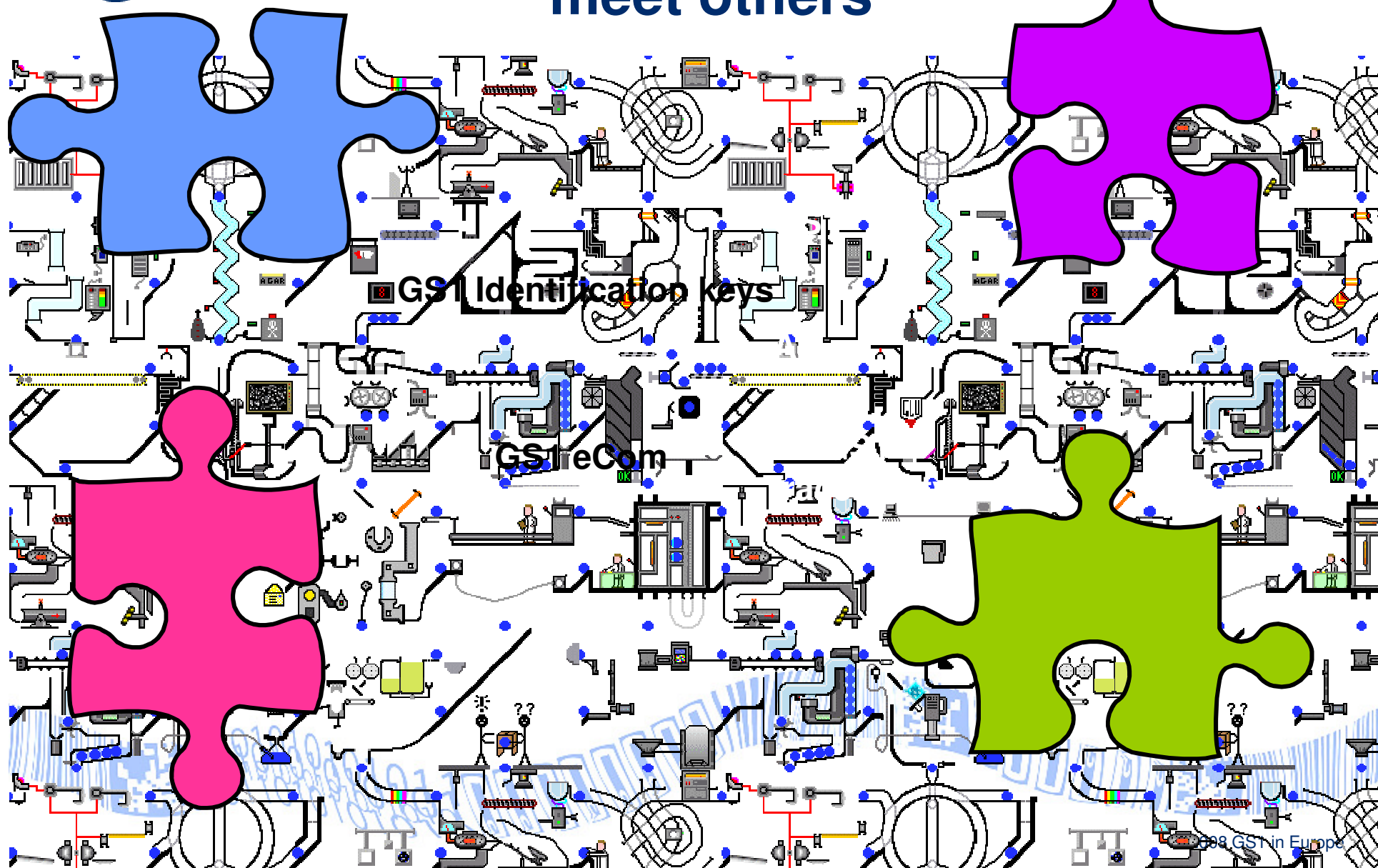
# Event: Purchasing

A product is purchased because it corresponds to a medical prescription

Trading Partner A   Purchase   Deliver   Dispense   Administer   Hospital Doctor

GTIN
GLN

265238 529

Receive   Replenish   Process   Ship   Receive   Ship   Admin

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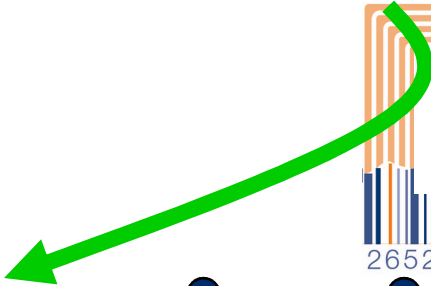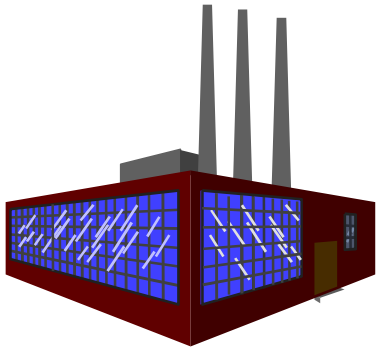
# Event: Shipping Notice

After order is completed, the supplier readies the order for shipment and sends a message called a **Despatch Advice** to alert hospital the goods will soon arrive.
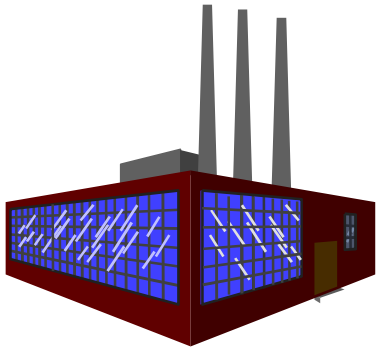
**Trading Partner A**

Purchase — Deliver — Dispense — Administer

**Hospital Doctor**

GTIN GLN

SSCC GTIN GLN

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Receive → Replenish → Process → Ship → Receive → Ship → Admin

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# Event: Shipping

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During shipping, the supplier marks the logistics unit with a label that has the Serialized Shipping Container Code (**SSCC**) identifier in a bar code.
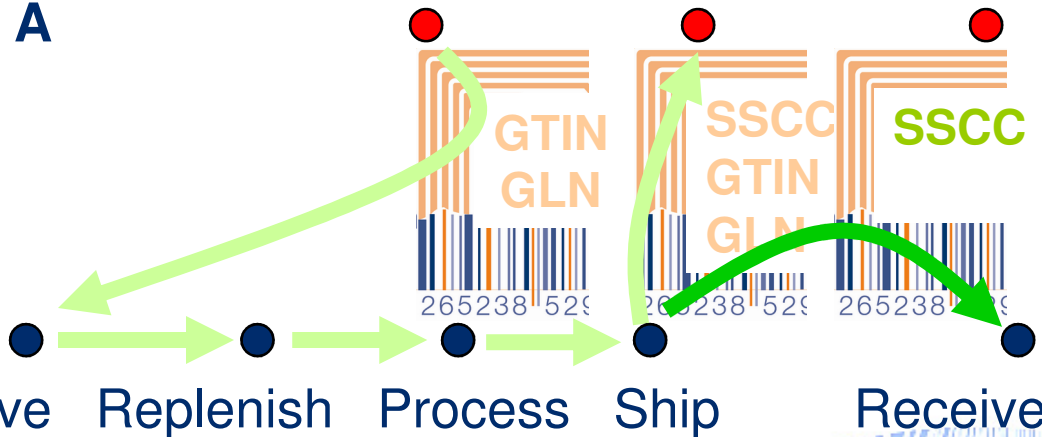
**Trading Partner A**  Purchase  Deliver  Dispense  Administer  **Hospital Doctor**

GTIN GLN

SSCC GTIN GLN

SSCC

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Receive  Replenish  Process  Ship  Receive  Ship  Admin

# Event: Dispense

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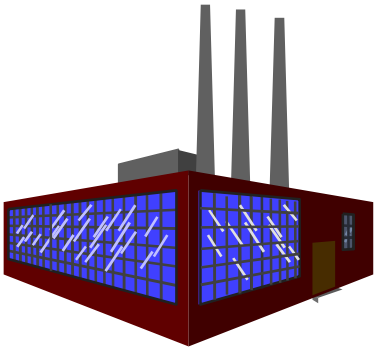
Upon receipt of the goods, a request for invoicing occurs. Internal delivery is processed

**Trading Partner A**

**Hospital Doctor**

Purchase — Deliver — Dispense — Administer

GTIN GLN — SSCC GTIN GLN — SSCC — SSCC GTIN GLN — GTIN GLN

265238 529 — 265238 529 — 265238 29 — 65238 529

Receive — Replenish — Process — Ship — Receive — Ship — Admin

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# Event: Administer / Document

Beside invoicing/payement, administration to the patient has to be verified against prescription and documented

**Trading Partner A**

Purchase     Deliver     Dispense     Administer     **Hospital Doctor**

GTIN GLN     SSCC GTIN GLN     SSCC     SSCC GTIN GLN     GTIN GLN

265238 529    265238 529    265238 529    265238 529

Receive    Replenish    Process    Ship    Receive    Ship    Admin

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# Event: Administer / Document

## How XML and HL7 CDA are used

8. Document content is presented to the professional

4. Customer gives a consent to the professional to look at the customer references

3. Reference data is extracted from the headers and inserted into the SQL database

2. FTP transfer of the headers once a day

1. All adapters provide the document headers for creation of the references for all customer encounters

5. The professional chooses the reference for content retrieval and the request is sent to the respective adapter

7. Document content is transformed into html using XSLT processor and XSL style sheet

XSL style sheets for presentation of the documents

DTDs for defining the document structures

6. Adapter retrieves the document from the operational system and sends it back

Musti Multilab    Sirinhe    (Pegasos)    Sairaala-Seniori    Pallas    ( Oberon etc...)

Beside invoicing/payement, administration to the patient has to be verified against prescription and documented
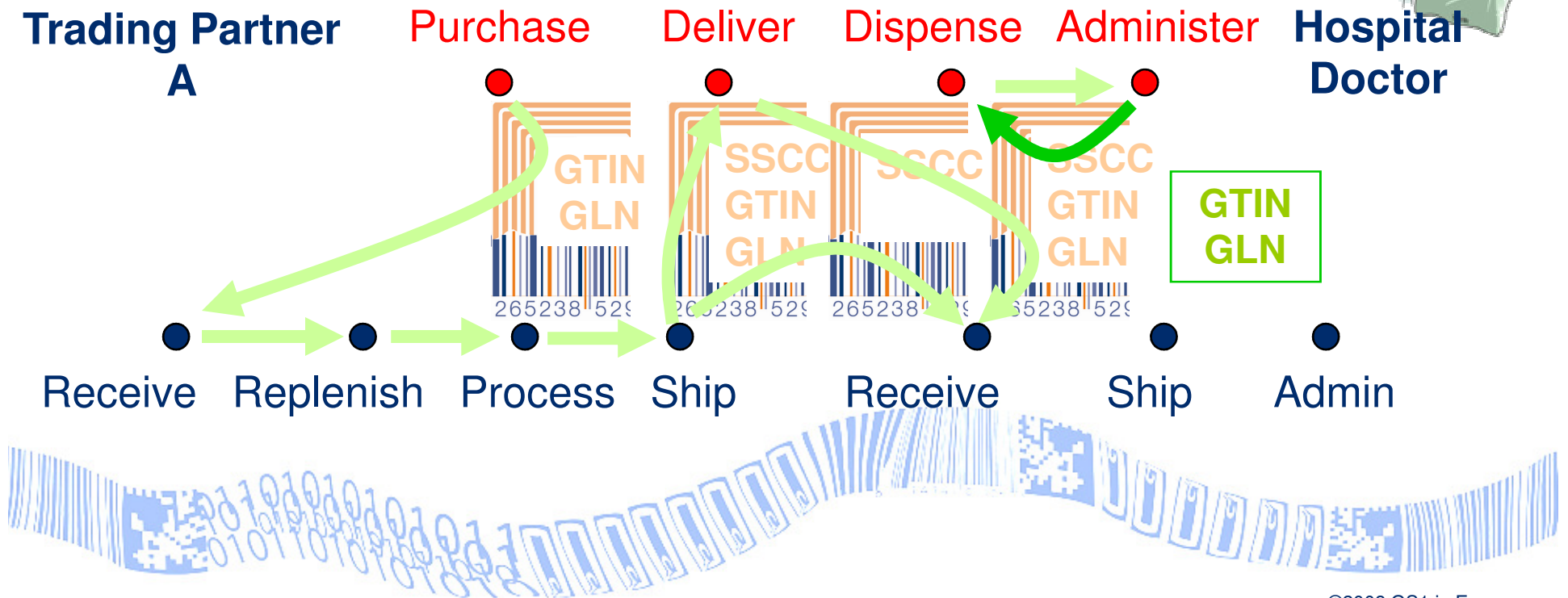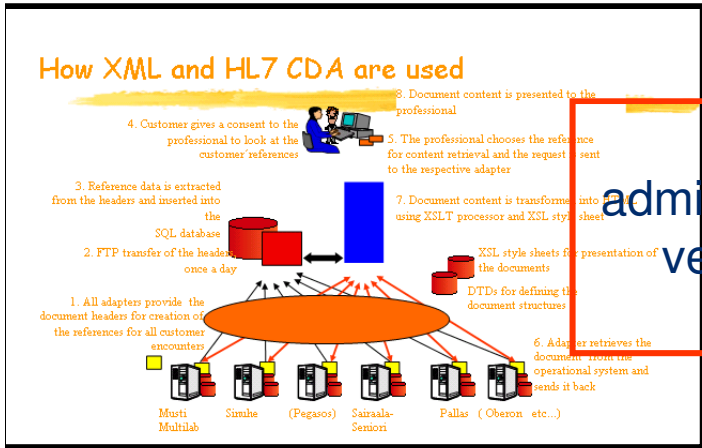
**Hospital Doctor**

```
<supply classCode="SPLY" moodCode="EVN">
  <statusCode code="completed"/>
  <effectiveTime xsi:type="IVL_TS"><center value="20071101"/></effectiveTime>
<!-- date/time supplied -->
  <participant typeCode="DEV">
    <participantRole classCode="MANU">
    <!-- Identifier of the supply item. Can be referenced from other parts
of the CCD document. -->
      <id root="03ca01b0-7be1-11db-9fe1-0800200c9a66"/>
        <playingDevice>
          <code code="70665002" codeSystem="2.16.840.1.113883.6.96"
displayName="Blood pressure cuff"/>
          <manufacturerModelName>BPC123</manufacturerModelName>
        </playingDevice>
        <scopingEntity>
          <desc>Global Medical Products</desc> <!-- manufacturer -->
        </scopingEntity>
      </participantRole>
    </participant>
</supply>
```
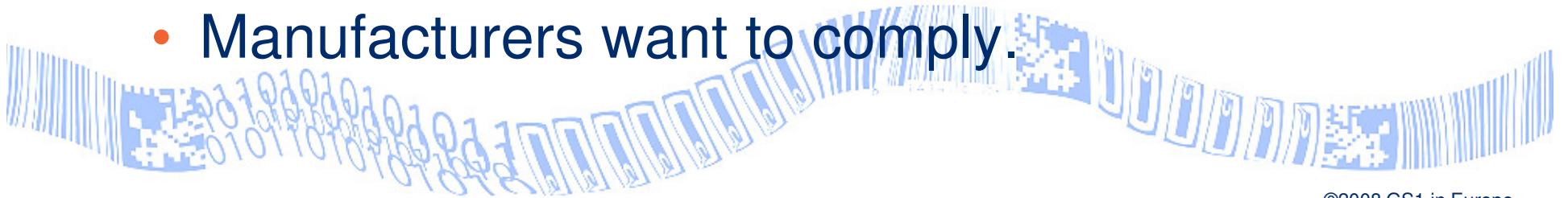
**GTIN
GLN**

**Stephen Hess, Merck & Co**

# What is important for manufacturers

- Truly open and global standards that add value
- Harmonized requirements that support global supply chains
  - No substitutes
  - Facilitate the ability to react to market changes/outbreaks
- Harmonized requirements that facilitate compliance. Simplify.
  - Manufacturers want to comply.

# What else might be important for manufacturers?

- Flexible data carrier requirements that allow for GS1 standards – Data Matrix

  - Compact data carriers
  - No impact on the product

GTIN: 12345678901234
Batch: A1C2E3G4I5
Expiry: 07-2008

- Labeling requirements that focus on patient safety

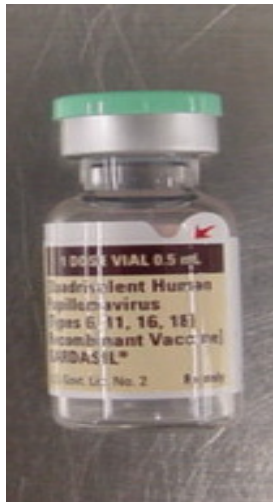- Minimum labeling requirements that "de-clutter" the label

**End to End adoption**

**From: Manufacturer** ⟶ **To: Point of Administration**

# Label space is at a premium for vaccines - Lets Use it wisely

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¾ inch

15/16 inch

1 1/8 inch

**GS1 Healthcare**

**Christian Hay**
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