

# Global Upstream Supply Initiative (GUSI) and the GS1 Standards

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GS1 Standards Management Event  
Barcelona  
4 April 2006



# The Upstream Integration Model (UIM)

- Standardises the business processes and data interchanges between manufactures and material suppliers for use in electronic communications.
- Covers the following business areas:
  - Procurement
  - Material forecasting
  - Inventory Management
  - Despatch, Receipt and Consumption of materials
  - Financial Settlement.
- Within an overall (manual) Integration Agreement between the manufacturer and the supplier.



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**5 building blocks for  
Business Interoperability**

***Common  
processes***

***Common  
coding &  
definitions***

***Compelling  
business  
case***

***Common  
Technology***

***Common  
Message  
standard***

# GS1 standards to support UIM

**Based upon the UIM, GS1 has developed and enhanced standards for the Upstream Integration Model:**

- eCOM XML message standards
  - not specific for Upstream, applicable downstream as well !
- Identification solutions for items used upstream
  - Global Trade Identification Number (GTIN)



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# GUSI (Global Upstream Supply Initiative)

## COMMON PROCESS (UIM)



**CODING & DEFINITIONS**  
e.g. GTIN and GLN

## **Business case**

- 6 % lower production cost
- 40 % shorter order / lead times
- 40 % lower stocks
- 20 % lower admin cost

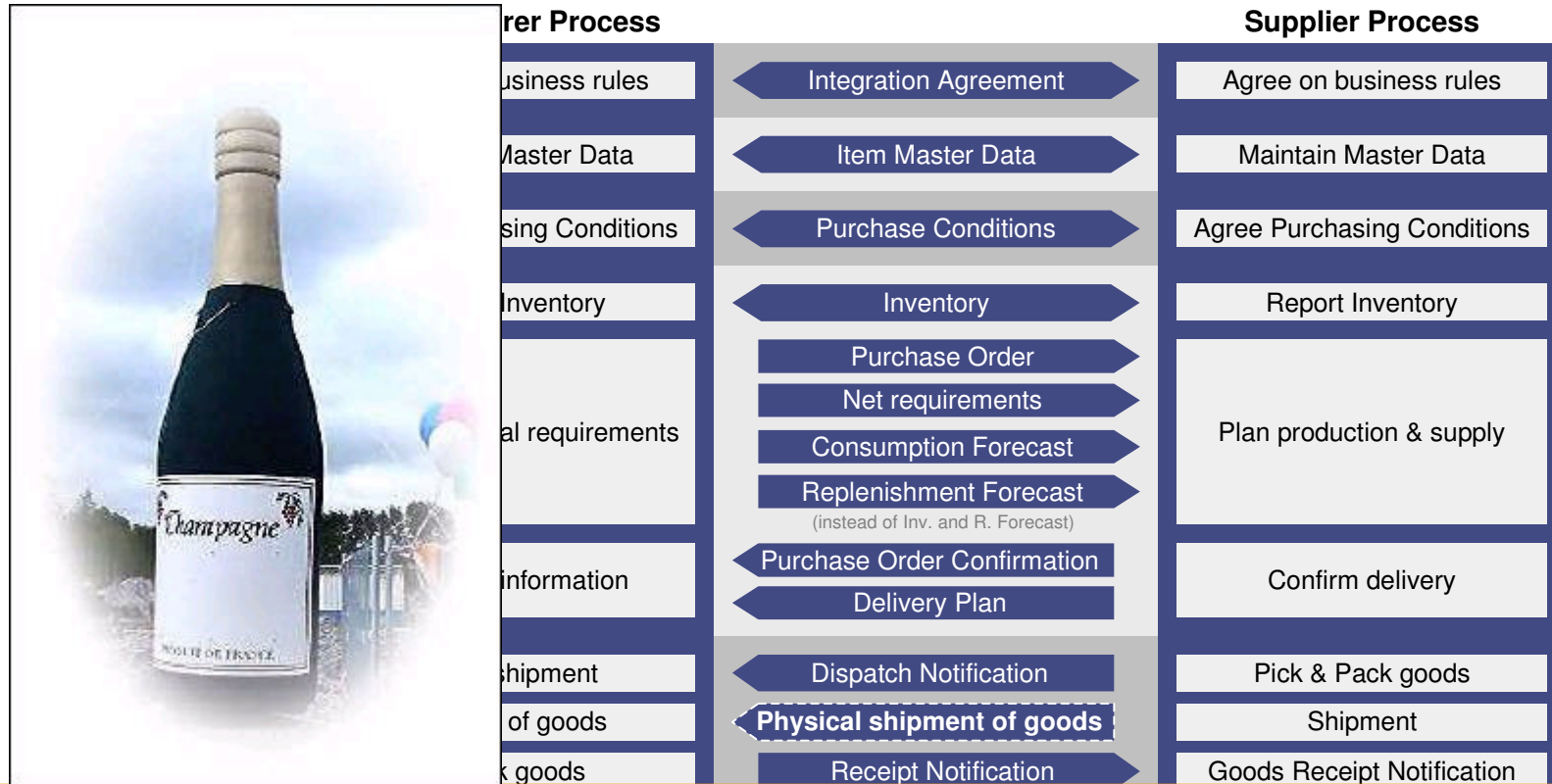
## **TECHNOLOGY**

- AS2

## **MESSAGE STANDARD**

- GS1 B2B (e-Com) standard

# Upstream Integration Model

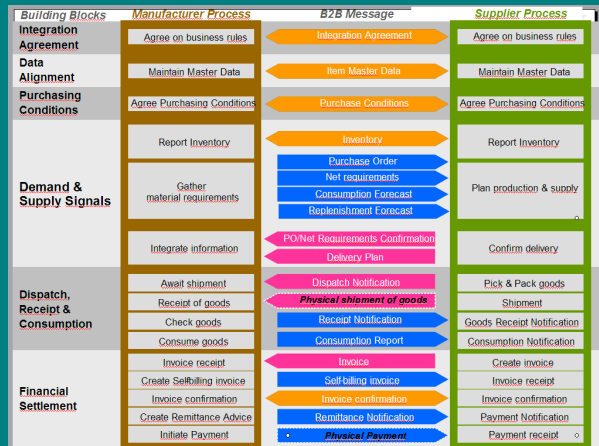


The GS1 XML message standards are now available!



# GUSI (Global Upstream Supply Initiative)

## COMMON PROCESS (UIM)



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# Block 4: Demand & Supply Signals

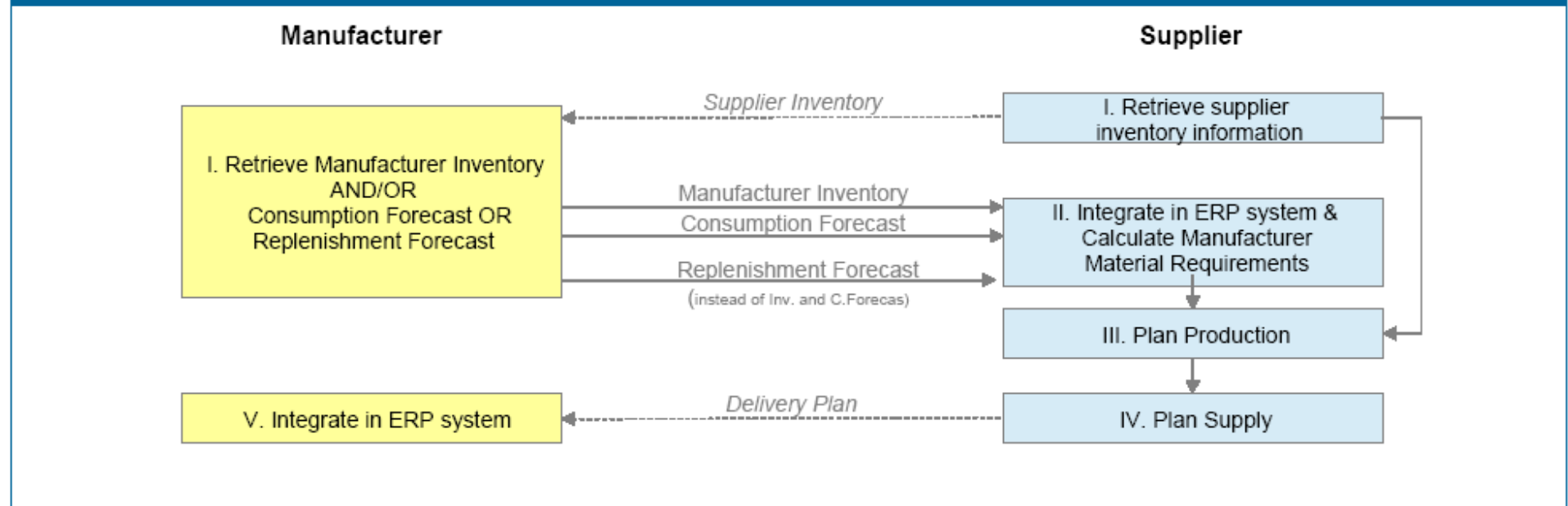
## Supplier Managed Inventory (SMI)



### Scope / Purpose:

- Communicate specific delivery quantities and timings based on the material requirements of a manufacturer

### Key process steps:



■ Manufacturer ■ Supplier *italic* Optional

# ***GUSI (Global Upstream Supply Initiative)***

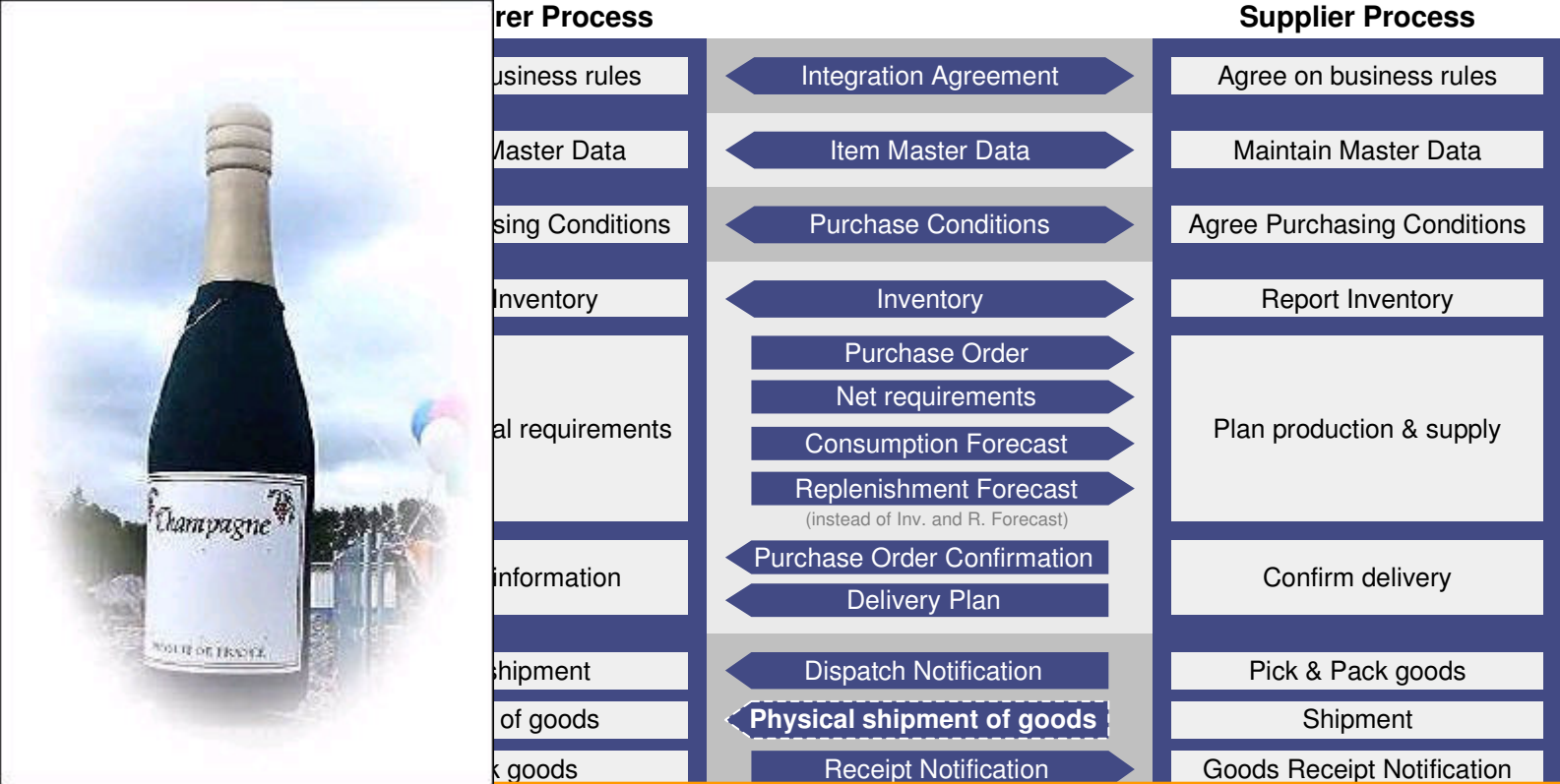
**MESSAGE STANDARD**

- **GS1 B2B (e-Com) standard**

• Transaction in UIM	• XML	• EANCOM
<ul style="list-style-type: none"> <li>• Integration Agreement</li> <li>• Item Master Data</li> <li>• Purchase Conditions</li> </ul>	<ul style="list-style-type: none"> <li>• n.v.t</li> <li>• Item Data Notification</li> <li>• Purchase Conditions</li> </ul>	<ul style="list-style-type: none"> <li>• n.v.t.</li> <li>• PRICAT / PRODAT</li> <li>• CNTCND</li> </ul>
<ul style="list-style-type: none"> <li>• Purchase Order</li> <li>• Purchase Order Confirmation</li> <li>• Net Requirements</li> <li>• Net Requirements Confirmation</li> <li>• Consumption Forecast</li> <li>• Inventory</li> <li>• Replenishment Forecast</li> <li>• Delivery Plan</li> </ul>	<ul style="list-style-type: none"> <li>• Multi Shipment Order</li> <li>• Order Response</li> <li>• Goods Requirements</li> <li>• Good Requirements Response</li> <li>• Goods Requirements</li> <li>• Inventory Activity / Status</li> <li>• Replenishment Request</li> <li>• Replenishment Proposal</li> </ul>	<ul style="list-style-type: none"> <li>• ORDERS</li> <li>• ORDRSP</li> <li>• DELFOR</li> <li>• not available</li> <li>• DELFOR</li> <li>• INVRPT</li> <li>• not available</li> <li>• DELFOR</li> </ul>
<ul style="list-style-type: none"> <li>• Dispatch Notification</li> <li>• Receipt Notification</li> <li>• Consumption Report</li> </ul>	<ul style="list-style-type: none"> <li>• Despatch Advice</li> <li>• Receiving Advice</li> <li>• Consumption Report</li> </ul>	<ul style="list-style-type: none"> <li>• DESADV</li> <li>• RECADV</li> <li>• SLSRPT</li> </ul>
<ul style="list-style-type: none"> <li>• Invoice</li> <li>• Self-billing Invoice</li> <li>• Invoice Confirmation</li> <li>• Remittance Notification</li> </ul>	<ul style="list-style-type: none"> <li>• Invoice</li> <li>• Invoice</li> <li>• Invoice Response</li> <li>• Settlement</li> </ul>	<ul style="list-style-type: none"> <li>• INVOIC</li> <li>• INVOIC</li> <li>• not available</li> <li>• REMADV</li> </ul>



# Upstream Integration Model



The Implementation Guide will become available!  
in 2 weeks time (final review)



# Implementation Guide - Process

## Process:

- **Business scenarios;**
  - **TOM without consignment with invoicing**
  - **TOM without consignment with self-billing**
  - **SMI with & without consignment with invoicing**
  - **SMI with & without consignment with self-billing**
- **Transaction scenarios;**
  - **UIM building blocks, Integration Agreement to Financial Settlement**



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# Implementation Guide - Messages

**MIG's (Message Implementation Guides for XML):  
UIM Message Implementation Guide (MIG)  
for the transaction Consumption Forecast based  
on message Goods Requirements.**

**CONTENT: Message structure  
Detailed guideline  
Message example**

**(GEFEG EDIFIX)**



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# Implementation - rollout

## Countries:

- Belgium
- France
- Germany
- Netherlands
- Poland
- Spain
- USA



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## **Next step: Certification program**

**Manufacturers and Material Suppliers want to do do the development once, get a stamp/certificate and be able to connect to all !**

**Example: the dutch downstream certification program.**

**Opportunity for GS1 !**



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