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### GS1 Case Studies on EDI Implementation

Anders Grangard, GS1 Mexico, 15 July 2015





### Order to Cash Business Processes







### Order to Cash Deployment Project



### O2C: Steps for Deployment



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- **1. Survey the Market**
- 2. Identify strategic retailers with whom you set up implementation objectives
- 3. Identify target group of companies with biggest potential (lowest implementation and importance to retailers)
- 4. Develop action plan with retailers
- **5.** Support implementation
- 6. Measure implementation



### O2C: Use Case GS1 Belgium & Carrefour

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**Understand the market** 

### Yearly questionnaires

• Sent to **FMCG retailers** to have an overview of the EDI repartition in the FMCG sector in Belgium & Luxembourg



- Sent to our 5000 members
- **NEW** Sent to **multi sectoral** merchants (Electronics, DIY & garden, furniture, textile, sports, toys, drugstores, ...)

# Number of suppliers doing EDI with FMCG retailers in Belgium & Luxembourg in 2011



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In general...

- about **1 out of 3** suppliers do EDI with their retailer in Belgium & Luxembourg, i.e. receiving ORDERS via EDI.

- **Only half** of them (= 1 out of 6 suppliers) send back DESADV & INVOIC via EDI.



ORDERS are by far the most exchanged EDI message in Belgium & Luxembourg.

# Actions taken by Carrefour and GS1 Belgium & Luxembourg



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- Carrefour organized a seminar for 350 suppliers in collaboration with GS1
- Carrefour explaining the **need** for an improved logistic flow
- GS1 informed how to create SSCC and GS1 logistic label and how to get started with the EDI DESADV
- GS1 **verifies** suppliers' logistic labels
- GS1 helps suppliers finding their way in EDI by:
  - providing **trainings**,
  - publishing EDI message guidelines
  - Providing **helpdesk**
  - Offer an **EDI test tool** (Calimero)
- Newsletters and mailings





### DESADV SSCC event 20th January 2011



Introduction

What is the role of GS1 Belgium & Luxembourg?

- Provide GS1 Identification Keys & standards
- Give trainings and seminars
- Provide assistance, helpdesk
- Check BarCodes, SSCC, logistic labels
- Give guidance on EDI implementation

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GS1

Doe-Het-Zelf & Tuin

10



### Communicate

IIIGS 1

- eNews & LINK
- Website (source of all information)
- Guidelines



## Number of suppliers doing EDI with FMCG retailers in Belgium & Luxembourg in 2011



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#### Compared to the results of 2010,

- Percentage-wise, the general results are approximately the same for 2011.

- However, in concrete numbers, there are a lot more suppliers on EDI compared to 2010. This increase is hardly reflected in the general results, because the 'increased number of suppliers on EDI' **represents only 3%** of the total number of suppliers.

- The number of suppliers on EDI ORDERS and EDI DESADV have increased by 27% and 26% respectively, compared to 2010.
- The number of suppliers on EDI INVOIC have more or less stayed the same.

## Number of suppliers doing EDI with FMCG retailers in Belgium & Luxembourg in 2011

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When comparing the **patterns** of 'suppliers receiving ORDERS', and the 'number of suppliers sending back the DESADV & INVOIC', among the different segments, we conclude that...



suppliers with more than 2 orders/week, are more likely to do
Order to Cash\*, as opposed to the others. In that segment, 8 out of 10 suppliers on EDI, do Order to Cash.

Only half of the suppliers with
 2 or less orders/week, receiving their
 ORDERS via EDI, send back the
 DESADV & INVOIC.

- suppliers with more than 46% 45% orders/week, are more like



Cosmetics Manufacturers and Retailers Take Common Logistics Approach with GS1 Standards



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#### CHALLENGE

Due to its global reach, the cosmetics sector in France is especially concerned about consumer safety and has strict requirements when selling products around the world.

When **European regulation** related to cosmetics required that manufacturers and retailers establish **traceability and recall processes**, the industry organised for a common approach in logistics operations.

#### SOLUTION

Manufacturers and retailers created common logistics processes, common transaction messages and a common data model using a wide array of GS1 Standards. Today, 85% of participating companies are using GS1 Standards for identification and traceability.



#### **BENEFITS**

- Compliance with European cosmetic sector regulation.
- Achieved traceability for fast withdrawals.
- Improved productivity with accurate, faster transactions.
- · Increased consumer safety and confidence.

#### **DID YOU KNOW?**

With GS1 Standards cosmetics companies are executing a withdrawal in less than **4 hours** enabling significant efficiencies and consumer safety. Source : GS1 France

Dutch Leading Food Retailer Creates a Fast Lane for Receiving Goods, and GS1 Standards Help to Gain significant Savings The Global Language of Business

#### CHALLENGE

As a leading food retailer, Albert Heijn seeks to grow and improve its service to customers every day. This includes a more transparent, flexible and responsive supply chain to better serve the needs of its consumers.

#### SOLUTION

Teaming with suppliers, Albert Heijn streamlined the goods receipt process across its vast network of distribution centres (DCs). The company called on suppliers to start using the GS1 Serial Shipping Container Code (SSCC) embedded in the GS1 Logistics Label to uniquely identify all logistics units travelling to DCs for

unloading. The SSCC is also included in the EDI Despatch Advice that pre-announces the delivery, allowing for Albert Heijn to plan for and simply scan the Logistics Label for verification. **BENEFITS** 

- Significant net savings in time spent checking goods.
- Shipping errors declined to 1% of all received shipments.
- Significant time and associated cost savings per drop.
- Increased dock capacity. Greater delivery reliability for improved consumer satisfaction.
- Faster product recall process for improved consumer safety.

#### **DID YOU KNOW?**

By using GS1 Standards at Albert Heijn , **shipping errors declined to 1%** of all received shipments leading to significant time and cost savings.



Albert Heijn

### Dairy Crest Uses GS1 Standards to Deliver Significant Efficiencies and Meet Tesco's Trading Requirements

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#### CHALLENGE

Tesco, a major supermarket chain, wanted to speed up delivery times and reduce inventory in its regional distribution centres (DCs) as well as make its goods-in processes more efficient and less costly. One of Tesco's suppliers, Dairy Crest aimed to increase the level of automation of its supply chain. The trading partners teamed to improve the accuracy and flow of information associated with the delivery of goods to the Tesco DCs while maintaining a high standard of customer service.

#### SOLUTION

Tesco places orders with Dairy Crest using Electronic Data Interchange (EDI) technology. As consignments are assembled, Dairy Crest identifies each pallet with a GS1 Serial Shipping Container Code (SSCC), encoded in a GS1 Logistics Label. Dairy Crest's warehouse management system issues an Advanced Ship Notice (ASN) message, which is sent to Tesco's receiving facility. When the ASN is received, Tesco knows in advance about the specific goods on the shipment and is able to verify and identify any discrepancies.

#### BENEFITS

- For Dairy Crest, achieved a delivery accuracy of 99.5%, in line with Tesco's target.
- Reduced manual, paper-based systems for fewer data errors and invoice queries, leading to improved cash flow.
- For Tesco, improved receipt of goods, warehouse operations and availability of Dairy Crest products for consumers across network of stores.
- Reduced time to unload trucks; e.g., for a 26-pallet truck, from 52 minutes to 11 minutes.
- Reduced errors and labour costs.

#### **DID YOU KNOW?**

By using GS1 Standards a user company in the UK achieved delivery accuracy of 99.5%.

### APEC, GS1 & Global Data Standards



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- APEC area represents more than 50% of world trade and 58% of global GDP has become an increasingly important intergovernmental grouping to engage with for GS1. APEC is targeting a 10% improvement in supply chain performance based on time, cost and certainty by 2015.
- As a way to help improve APEC supply chain performance the APEC Business Advisory Council, supported by GS1, is promoting the use of Global Data Standards in cross-border Government functions.
- Global Data Standards refers to standards widely used in private sector supply chains that could be leveraged by Government to improve their product identification capabilities
- Of particular interest is the improvement of existing Government systems with private sector identifiers to enhance risk assessment, visibility and streamline border admission



# Global Data Standards APEC Pilots The Global Language of Business

- Work on Global Data Standards at forefront of APEC strategy to improve regional supply chains funding from APEC for Global Data Standards pilot projects
- Pilot projects aim to enhance understanding about Global Data Standards and explore benefits, costs and resolutions to possible APEC Government obstacles
- Global Data Standards pilots will be applied to nine selected products and measured by researchers in terms of improvements in efficiency, innovation, integrity, visibility in international trade





### Omni-Channel



### Retail from a consumer perspective: standards make it possible GS1

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Providing a seamless consumer experience across physical and digital channels

### The problem: A €200 billion challenge



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## 200 billion

Annual value in Euro of trade in fake goods globally, similar to market for illegal drugs

## 2,364

Recall notifications in the EU annually for dangerous nonfood products

OECD

RAPEX

## 17

Average number of food recalls annually in Australia for undeclared allergens

FSANZ

## 128,000

People hospitalised each year in the U.S. for foodborne illness

CDC

### The problem: A complex problem



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# The problem: A complex problem



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### The problem: What do stakeholders want?

Safer Products, Fewer Counterfeits

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#### CONSUMER

#### 1) TRUST

Contaminations, recalls and counterfeits change **consumer perceptions** and purchasing behaviours

#### Want safe, genuine products and trust information on products they buy



#### INDUSTRY

### **2** RELIABILITY

Industry needs to **track, trace and authenticate** their products/ components from their origin Want to make sure products they supply to consumers **are safe** 



#### **AUTHORITIES**

### **3** COMPLIANCE

Ensure safe environment for citizens through new regulatory requirements Products sold to consumers **must be safe** 





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## Top Retailers on-line rely on GS1



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Amazon, eBay, Walmart, Apple iTunes and Google require or endorse GS1 identification for e-commerce.

The GS1 US GTIN Validation Guide is an important tool for improving the quality of product data and the relevance of online and mobile search results. – Walmart

The GTIN Validation Guide will help eBay find and resolve incorrect, duplicate and conflicting product information, improving visibility for merchant offers and enhancing the consumer search experience. — eBay

**GS1** standards have been very valuable in our efforts to improve the online shopping experience by harmonising product data and eliminating inaccuracies. – Google



## More efficient search





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#### What is the adidas ZX Flux Prism?

- a) Sneakers
- b) Athletic Shoes
- c) Classic Running/Running Shoe
  - C) Footlocker (UK)' AliExpress
    - Ji.Yed∃ (d
    - 9b.nozemA (6

:snewers

### **Philips - GS1 XML Internal standard (Example Webshop)**







### GS1 Transport Management Messages



# Objective



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## **GS1** Transport & Logistics

The Objective of GS1 regarding Transport and Logistics (T&L) is to improve efficiency and visibility of the T&L operations of supply chain stakeholders through the use of GS1 Global Standards



### WCO & GS1 COOPERAT





- Committed to enabling secure, efficient global supply chains
- In 2007, a MoU was signed in recognition of the wide range of business interest shared by our organisations
- In 2012, a co-operative agreement was signed to focus on anticounterfeit interventions





Global Shipment Identification Number (GSIN)



Cooperation Agreement on Anticounterfeiting

### LIM: Logistics Interoperability Model



- Published by GS1 in 2007
- Defines business process interfaces and required information exchanges
- Covers <u>transport</u> as well as <u>warehousing</u>
- Foundational for GS1 XML T&L message standards

http://www.gs1.org/sites/default/fi les/docs/sectors/transportlogistics/ LIM Foundation Report.pdf





# **Contact Details**

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