GS1 Industry & Standards Event 2019
9-13 September 2019 – Lisbon, Portugal

*Transforming business together*

Session: Meeting the needs of industry and consumers - GS1 standards for fresh foods

Time: 11.00-12.30

Who may attend: Everyone

Moderator: Elena Tomanovich, GS1
Anti-trust caution

• GS1 operates under the GS1 anti-trust caution. Strict compliance with anti-trust laws is and always has been the policy of GS1.

• The best way to avoid problems is to remember that the purpose of the group is to enhance the ability of all industry members to compete more efficiently.

• This means:
  - There shall be no discussion of prices, allocation of customers, or products, boycotts, refusals to deal, or market share.
  - If any participant believes the group is drifting toward impermissible discussion, the topic shall be tabled until the opinion of counsel can be obtained.

• The full anti-trust caution is available via the link below, if you would like to read it in its entirety: http://www.gs1.org/gs1-anti-trust-caution.
Meeting etiquette

- **Meetings will begin promptly as scheduled**
- **Be present – avoid multi-tasking**
- **Avoid distracting behaviour:**
  - Place mobile devices on silent mode
  - Avoid sidebar conversations
- **Be considerate**
  - Avoid monologues
  - Keep comments concise
- **Respect work group decisions**
  - Avoid re-opening decisions unless there is a significant quality impact
- **Collaborate in support of meeting objectives**
  - Ask questions
  - Be open to alternatives
- **Be representative**
  - Avoid personal remarks
  - Do not speak for your company or community if you do not clearly understand their needs
  - Votes should reflect the needs of your company or community
The **NEW** GS1 Industry & Standards Event App

1. Please delete the previously installed GS1 Events app from your phone. **THIS IS VERY IMPORTANT.**

2. **Download the new GS1 Events App** (the icon is the same as the previous app, which is why it is important to delete the previous app first.

3. **Check your email** for an invitation from GS1 Events which includes your personal verification code.

4. **Enter the verification code** into the app and enjoy!
Event App – How to rate sessions

1. Open session that you want to survey
2. Scroll to the bottom for **Session Survey**
3. Begin the survey
WiFi internet access

• Select network “Sheraton Lisboa” and connect
• Login: GS1events
• Password: GS1events
Agenda

- Welcome, GS1 Anti-trust caution, administration
- Fresh foods and GS1 standards – industry needs, how GS1 standards help, Global Standards Management Process (GSMP) work
- Featured presentations
  - A case study in the Fresh industry sector from GS1 Australia
  - Whole Chain Seafood Traceability Through Interoperable Data Standards from the Global Dialogue on Seafood Traceability
  - GS1 in Europe Fruit & Vegetable Implementation Group
  - EPCIS for Fruits and Vegetables at Migros
- Closing remarks and session evaluations
Meeting the needs of industry and consumers - GS1 standards for fresh foods

**Description:** Across the world, consumer demand for fresh food products is increasing at the same time consumers are demanding more transparency and seamless shopping experiences across paths of purchase. The time is ripe for use of GS1 standards! Why is NOW the time for companies to begin? How do GS1 standards help meet these needs? What best practices can companies leverage to begin their journey - or advance more quickly - in implementation? Join us to hear how users and GS1 Member Organisations across the world are driving adoption of GS1 standards to meet industry and consumer needs.
A recommendation for Wednesday

Lunch & Learn: Future of On-pack Coding Strategy development

**Description:** This lunch and learn will highlight our preliminary findings in our ongoing development of a 3-year strategy for the Future of On-pack Coding: understanding and adapting to a future where more 2D barcodes appear on products and ensuring that GS1 Identity is at the core of these advances.

**Who should attend:** Everyone

**Moderator:** Steve Keddie, GS1 | Kevin Stark, GS1
Fresh foods (perishable)

Fresh foods are important for retail and foodservice businesses. Fresh foods can be unrefined or processed and are sold as unpackaged or pre-packaged:

- Bakery
- Dairy
- Meat
- Produce
- Seafood
Global fresh foods trends

- Sector growth
- Increasing length and complexity of supply chains
- Omni-channel commerce in consumers’ “path to purchase”
- Advanced and emerging technologies
- Traceability
GS1 standards play a vital role in the fresh foods sector.
Provide trusted product information via unique, persistent identification and accurate, complete data

Deliver supply chain efficiencies and support agility and responsiveness

Generate higher quality data at a lower overall cost and improve the shopping experience for consumers
Traceability

• Improve food and consumer product safety
• Accurate and more rapid detection and deterrence of counterfeit products
• More efficient and accurate regulatory compliance
• Cost savings resulting from simplified and automated business processes
Global Standards Management Process (GSMP) outlook – Fresh foods

as of August 2019
Global Implementation Guidelines – Fresh Foods
https://www.gs1.org/fresh-foods/implementation-guidelines

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<td>• GS1 Foundation for Fish, Seafood and Aquaculture Traceability Implementation Guideline</td>
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<td>• Fisheries &amp; Aquaculture Master Data Attribute Implementation Guide</td>
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<td>• Traceability for Fresh Fruits and Vegetables - Implementation Guide</td>
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<td>• GS1 Made Easy - Global Meat and Poultry Traceability Guideline Companion Document</td>
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<td>• GS1 Global Meat and Poultry Traceability Guideline, Part 1. The GS1 System</td>
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<td>• GS1 AIDC Fresh Foods Sold at Point-of-Sale Implementation Guideline</td>
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<td>• GS1 Human Readable Interpretation (HRI) Guideline</td>
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GSMP – Fresh foods traceability
2019-2020

• Standards development and standards **maintenance**

• Guidelines updates: Post GTS2 updates and sector needs (e.g. regulatory)
  - Complete – Fish, Seafood & Aquaculture
  - **Currently preparing - Fruit & Vegetable – Traceability & Event Sharing SMG (end of September)**
  - Then – Meat & Poultry

• Guidelines updates: Post EPCIS & CBV 2.0 updates and sensors (new content)
GSMP – Fresh foods AIDC
2019-2020

• Standards development and standards maintenance
  • Complete GSCN - use of 2D in the supply chain – on trade units (only in addition to 1D)
  • Complete GSCN - use of 2D at Point-of-Sale – approved for transition from Restricted Circulation Numbers to GTIN (consumer units)

• Next:
  - Guidelines updates - AIDC @ POS Guideline, and all Traceability Guidelines
  - NEW work: Implementation Guideline – 2D at Point-of-Sale
Featured Presentations
Collaboration….It’s what we do…..

A case study in the Fresh industry sector

Sue Schmid – Head of Customer Experience & Standards Office
September 2019
Happy Customer
Great Collaboration
Goal

Resilience

Engage

Persistence

Support
The GS1 Australia Fresh Foods story....
The Goal
Engagement....
Dear Trade Partners,

It is a well-known challenge when establishing proper traceability in low-value products. 

We are writing to you today to update you on the status of the implementation of GS1 DataBar labels for orange and mangoes across our stores, and discuss future plans for other fruits and vegetables.

Implementation of Mango PLU labels to incorporate GS1 DataBar for loose product traceability and scannability.

This coming season, in line with other loose produce categories, major retailers including Woolworths, Coles and Metcash (IGA) are asking their Australian mango suppliers to collaborate on the implementation of a more defined PLU label incorporating DataBars.

Read more
Persistence...
GS1 DataBar for fresh produce

Unique produce identification
Traceability to the farm or packhouse.
Faster and more targeted recalls, the ability
to stop the sale of an affected item.
Providing customers with a safer supply
chain

- Globally unique company and
  produce identification
- Less shrink with accurate POS activities (organic vs conventional)
- Improves inventory management
- Better forecast demand for varieties
- Provide Country of Origin by GTIN

GS1 DataBar Stacked
Omnidirectional

(01)09312345678907

- Faster check-out times
- Better customer experience
- Reduce food waste in store
- Further reduce plastic packaging in store

All loose produce items carry
GS1 DataBar

Scanning in all Woolworths, Coles and few IGA Stores

Produce
Resilience......
Collaboration is multiplication.

John C. Maxwell
The goal.....
Use Case

- Key Driver: enable new business cases with use of more granular data in a compact symbology (waste reduction, reduce # of symbols, traceability, inventory management, targeted recalls, etc.)
- Looking to extend learnings from improved use of GS1 DataBar in loose produce
- Data encoded:
  - GTIN
  - Price (Variable Measure)
  - Weight (Variable Measure)
  - Best-Before / Use-by
  - Batch / Lot Number

Key Learnings

- Phased roll-out:
  - Short-term trial with 2 meat suppliers (10 SKUs total; variable & fixed weight) starting August 2019 across 6 supermarkets for 5 weeks
  - Medium-term expansion to all store fleet (1,000 stores) and expand to top 50 meat suppliers (optional participation)

“When scanned at the point of sale, customers will be alerted that the product is past its expiry date and the system won’t allow the purchase.”

Woolworths press release, 24 May 2019
Support...

Woolworths tests poultry, meat

By Ry Crozier
May 30 2019 7:06AM

To aid product recall, improve traceability

Woolworths will put poultry products sold in August to aid in product recall.

2D barcodes “store data as just a series of black dots” known example of a

Woolworths said in a meat packer Hilton said the trial.

The 2D barcodes embed batch, supplier and

New barcode trial promises to cut product recall extend.

Woolworths is set to become the first Australian supermarket to trial data embedded (or 2D) barcodes in stores from August.

The trial has the potential to help reduce the millions of tonnes of food waste generated in Australia each year, and will eliminate the risk of customers purchasing expired products.

In collaboration with Woolworths, Hilton Foods and Ingham’s will start placing 2D barcodes on fresh meat and poultry products sold via Woolworths supermarkets nationally.

Related Articles

Woolworths trials ‘scan and go’ smartphone shopping
Woolworths reveals large-scale ‘farm to fork’ IoT project
Woolworths
One happy customer...
Collaboration continues
Data Embedded Barcodes at POS

Opportunities

- Better inventory visibility and management of fresh foods by shelf life, automatic price markdowns at POS
- Reduction in food waste through sale of product before Use By Date,
- Encode batch/lot or serialisation for traceability to POS or to consumer via loyalty programs
- Stop the sale of expired/recalled item by batch or date

Drivers/Targets

- 2019: GS1 2D now approved for use at POS for Variable Measure products
- Point of Sale Equipment upgrades and enablement
- Pilot Q1 2019-20 with Woolworths
- Engage other key retailers and targeted suppliers in medium term

Evolution, not Revolution

Details

- Industry Seminar 10th April
- Industry Working Group Kick-off 24th July
- Develop industry roadmap for future of POS with Data Embedded barcodes
- Global implementations and pilots underway
- Woolworths and 2 partner suppliers, 5 products each in 5 Stores – late August

Attribute GTIN includes:
- GTIN, Use By Date, Weight, Price and Batch/Lot Code
Whole Chain Seafood Traceability

Through Interoperable Data Standards

Mr. Neil Aeschliman
Senior Program Officer, Seafood Traceability
World Wildlife Fund
The Global Dialogue on Seafood Traceability is an international, business-to-business platform established to advance a unified framework for interoperable seafood traceability practices.
Global Dialogue on Seafood Traceability

Key Details

• Started: **Spring 2017**
• Motivation: **IUU Seafood**
• Scope: **Global Seafood Industry**
• Membership: **60+ Organizations**
• Dialogue Advisors: **90+ Orgs (incl. GS1)**
• Primary GS1 Standards Used: **EPCIS**
GDST Membership

Whole Chain Representation

Geographic Dispersion

- 25 Members
- 18 Members
- 19 Members
GDST Membership

<table>
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<th>Small-scale Operators</th>
<th>Regional Brands &amp; Processors</th>
<th>Multinational Conglomerates</th>
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<tr>
<td>178 Degrees</td>
<td>Mount Cook Alpine Salmon</td>
<td>Bolton Group</td>
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<td>Sea Delight</td>
<td>Metro AG</td>
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<tr>
<td>Vinatuna</td>
<td>Young’s Seafood</td>
<td>Thai Union Group</td>
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*As of May 28, 2019

(list includes only members who have granted permission to publicize their involvement)
SeaBOS and GDST announce global traceability partnership

Cargill and Skretting support seafood traceability

SeaBOS joins Global Dialogue on Seafood Traceability to encourage traceability uptake effort

ALDI, Lidl other grocers back seafood transparency initiative
Delivering Outputs

Key Data Elements (KDE) Alignment

- The Need: A uniform expectation of **WHAT** data to be captured and shared
- Task groups divided into **Wild Capture, Aquaculture** and **Social**
- Akin to the **Core Business Vocabulary (CBV)** in EPCIS
- Main deliverable: **Basic Universal List of KDEs for Seafood**

Interoperability Guidance

- The Need: guidance on **HOW** to identify, capture, and share data
- Conducting **Pilots** and **Hackathons** to test the proto-standards and unearth novel solutions to challenges
- Main deliverable: **Interoperability Guidance on Applying EPCIS for Whole Chain Seafood Traceability**
Seafood Context

- Drivers
- Need
- Solution
- Accommodations
# Drivers for Whole Chain Traceability

- **Regulatory Compliance**
  - EU No 1379/2013
  - US Seafood Import Monitoring Program

- **Consumer Transparency**
  - “Was it caught sustainably, legally, socially responsible?”
  - “Prove it!”

- **Commercial Demands**
  - Retailers & Wholesalers requesting provenance info
  - Long, complex chains

- **External Stakeholders**
  - Pressure from NGOs
  - Implementing change requires identifying where it is needed
Need for Whole Chain Traceability

Back to Harvest or Not At All

- Principal need is **PROVENANCE DATA**
  - What most stakeholders request

- Must enable **SOLUTION CHOICE**
  - Stovepipes get clogged with fragmented, global, and diverse supply chains

- Supply chain **VISIBILITY** back to the boat or pond
Solution for Whole Chain Traceability

Data Standard

• KDEs/CBV incorporated into XML file format extensions – solution providers build the standard

• Widely-accepted expectations about what data is sufficient to describe provenance

On-demand Unique IDs

• Some actors are too small to justify registering for a company prefix and GLNs

• Most seafood starts as interchangeable commodity with no brand differentiation

EPCIS was the foundation to build upon — 1) Augmented CBV to capture seafood KDEs at seafood-specific events, 2) Leveraged UUIDs for globally-unique identifiers
Accommodations for Whole Chain Traceability

**On-demand Unique IDs**

- Section 8.8.1 of CBV 1.2.2 defines the use of *Universally Unique IDs* (UUID) as an acceptable identifier for *Events* within an EPCIS event.

- Accommodates small-scale vessels where GS1 keys are **too costly** or **too time-consuming** to secure.

- UUIDs can be produced on-demand, free of charge.

© Jürgen Freund / WWF
“METRO is a committed supporter of cross-industry collaboration to drive the development, acceptance, and implementation of digital traceability solutions in the seafood industry on a large scale. We owe it to our oceans and future generations to work together to develop the best possible tools and practices to ensure fish and seafood sustainability as well a social standards and transparent supply chain management in the sector.”

- Britta Gallus, Director Programs & Risk Assessment, METRO AG
Upcoming Hackathons

- Cologne (21 – 22 October)
  - Partnering w/ GS1 Germany

- Bali (26 – 27 October)
  - Partnering w/ Second Muse

- Challenge topics:
  - Data Verification
  - Interoperability through EPCIS
  - Identifier Technology
  - Blockchain Integration

Contact Information

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www.worldwildlife.org
GS1 in Europe Fruit & Vegetable Implementation Group

Mr. Radbout Buijs, FrugICom, Fresh F&V association Netherlands
Mr. Ferran Domènech Fusté, GS1 Spain and GS1 in Europe Fruit & Vegetable Implementation Group
Agenda

• Why Fresh Fruits & Vegetables are different?
• GS1 in Europe Fruits&Vegetables Implementation Work Group
  - Who we are?
  - What are our objectives?
  - Outcome from traceability survey for EU Retailers
  - GDSN usage for Fresh Fruits and Vegetables
Why Fresh F&V are different?

F&V is a “Core Industry” in Retail

• Critical Supply Chain
  - Short shelf-life (perishable produce)
  - Seasonal
  - Unpredictable (Impacted by weather conditions world wide)
  - Different understanding in Retail on definition how to set up the replenishment process in Fresh F&V
Why Fresh F&V are different?

F&V is a “Core Industry” in Retail

- Global Supply Chain
  - EU is in the TOP-10 Importers
  - EU exports TOP destinations: China, US, Russia, Japan.
  - Level of automation in Supply Chain are different 1st 2nd and 3rd world countries
Why Fresh F&V are different?

F&V is a “Core Industry” in Retail

- Globally growing market
  - Increasing numbers of health-conscious consumers
  - Improved access to safe, fresh products through global trade
  - The need for standards are growing on a increasing global level
  - Reduce IT cost in the supply chain by using GS1 Fresh F&V standards in this industry

By 2021, the trade of global fresh food product will grow to 2.4 billion tons
Agenda

- Why Fresh Fruits & Vegetables are different?
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  - Who we are?
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GS1 in EU Fruit & Vegetable Implementation Group

¿Who is in the Work Group?

- GS1 in Spain
- GS1 in Germany
- GS1 in Europe
- GS1 in the Netherlands
- GS1 in the Czech Republic
- EDEKA
- ICA
- METRO
- REWE
- Dole
- Frug i Com (Foundation Platform Fresh Chain Information)
- SanLucar
Objectives

• Digitalisation of the F&V Supply chain:
  - Reduce errors in order-to-cash processes
  - Operational excellence
  - Traceability & Supply Chain visibility (consumer demands & Food Safety)
  - Regulatory compliance
Traceability Survey for EU Retailers

• **9 Retailers across EU**
  - 1 Austria
  - 1 Switzerland
  - 1 Czech Republic
  - 2 Netherlands
  - 2 Germany
  - 2 Spain

• **Objectives:**
  - Having the understanding of Traceability from Retailers
    • Vision
    • Process scope
    • Stakeholders involved
  - What do they look after by implementing Traceability Systems?
  - How do they feel GS1 can help?
  - Data involved in traceability scope
  - Main barriers
# Outcome of the Traceability Survey

## Traceability objectives
- Improve Consumer demand / satisfaction
- Produce origin
- Food safety & regulatory compliance
- Base for making decisions (procurement, assortment...)

## Traceability Scope
- “From farm to fork”
- Customs processes not as important as others (for traceability purposes)

## Data involved
- Data from ORIGIN
  - Master Data: Field location, Certificates, Post Harv. Treatments, variety...
  - Transactional: Harvest date, Pesticides, irrigation method...
- Logistic info @ Trader Packer.

## Barriers
- Not having visibility from ORIGIN
- Not interoperable systems
- High investment
Outcome of the Traceability Survey

Main recommendations for our work

• Lots of detailed information from Origin is demanded
  - Data model can help for Master Data
  - Global and standarized solutions for transactional & master data

• Do not reinvent the wheel:
  - Many current tools are still useful → avoid higher investments
  - Global alignment on IDENTIFICATION and DATA EXCHANGE.
GDSN usage for Fresh Fruits and Vegetables

Accurate Product Data as a foundation for...

- Improve consumer satisfaction
- Making decisions (procurement, assortment...)
- Driving sales up
- Regulatory compliance

The Global Language of Business
GDSN usage for Fresh Fruits and Vegetables

Status of GDSN adoption in Europe for Fresh F&V

- 315,081 GTIN
- 29 Target Markets
- 2,547 Companies

Data from Global Registry for Fresh F&V bricks – June 2019
GDSN usage for Fresh Fruits and Vegetables

Benefits for trading partners

- Avoid maintaining client’s EXCEL
- Easier reports through product visibility
- Detailed produce information
## Contact information

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<thead>
<tr>
<th>Ferran Domènech Fusté</th>
<th>Klaus Förderer</th>
<th>Radbout Buijs</th>
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<tr>
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<td><strong>Senior Manager eBusiness/GDSN GS1 Standards + Products</strong></td>
<td><strong>Senior Supply Chain and IT Consultant Frugicom</strong></td>
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<td><strong>D</strong> +31(0)629594471</td>
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- **www.gs1es.org**
- **http://www.gs1-germany.de/**
- **https://www.frugicom.nl**
EPCIS for Fruits and Vegetables at Migros

Mr. Alexander Hille, Migros
EPCIS for Fruits and Vegetables at Migros

• About myself
  - Project Manager for EPCIS
  - Migros since 2014
• Agenda
  - Migros and GS1
  - Case Fruits and Vegetables
  - Summary
Migros, some facts and figures

- Largest retailer in Switzerland
- Over 2 million Cooperative Members
- Sales of over CHF 25 billion
- 10 Cooperatives
- About 600 sales locations
- 30 Migros Industry companies
- Biggest private employer in Switzerland (over 100,000 employees)
Migros and GS1

Early active member of **EAN and ECR Switzerland**
Membership **GS1 Switzerland** since foundation (also management board member)
Membership **GS1 Germany** since 2013
Engagement in mostly all working groups from GS1-CH (> 10)

First **barcode** developments and trials in 1972
Fully implementation of barcodes 1984

**Electronic data interchange** since 1988
Today 11.5 Million EDI messages per year

**GRAI with RFID** on every crate since 2014
**EPCIS** standard and system implementation since 2016
EPCIS for fresh fruits and vegetables
**Why:** Overall goal Migros purchase

**Vision:**
We have a supply chain which guarantees a maximum of freshness while keeping 100% delivery security in the most efficient way.

**Mission:**
We create the necessary transparency along the supply chain to streamline our incentive schemes and their controlling for continuous improvement of the supply chain together with our partners.

**Plan:**
EPCIS creates the technology baseline to enable all partners along the supply chain, from field to the store, to share their delivery information and to learn out of them.
**Why:** Questions to be answered with EPCIS

**Purchase**
- Who (supplier) has delivered how much from which article?
- How many oranges from Spain did we receive?
- How many percent of the delivered strawberries have been delivered in max. 3 days from origin to one of our platforms?
- Who (supplier) delivers nectarines in the most fastest way to us?
- How many white asparagus are at the moment still in our cooperatives?

- Who (supplier) reached the best quality ratings?
- Where are still pears with the LOT xxxxxx?
- Who (supplier) delivers the rejected pepperoni with LOT xxxxxx?

**Cooperative / Platform**
- How can the goods reception process can be improved to be faster and easier as today?
- How can additional information in reference to a shipping being captured very easy and quick. (for example supplier for LFS entries)

- How can the proof of origin in the stores be improved?

**Customer**
- Where is my vegetable coming from?
- How was it produced? Which ecological and social standards are fulfilled?
**Why:** What we have to day...
Why: ...and what we want tomorrow

- Traceability by click
- Real-time supply chain KPIs
- Digital quality measurements linked with supply chain data
- Back and Forward data sharing along the supply chain
- ...

https://www.youtube.com/watch?v=u2CLnms3PCM&feature=youtu.be
**Why:** Supply Chain challenges

- Supplier (Origin)
- Farmer
- Storage
- National platform (external)
- Cooperative (DC)
- Stores

Migros
**How: Information-process model supplier origin**

1. **Harvest**
   - External producer

2. **Entrance warehouse**
3. **Preparing**
4. **Packing**
5. **Shipping**

**Supplier origin**
- National platform
- Migros platform

**Harvest info**
- Article and LOT
- GGN-Number
- Harvest date
- Origin (country code)

**Shipping**
- Delivery note number/id
- *Order number national platform*
- List of articles with internal lot and amount
- GGN-Number
- Date of shipment

Only Migros relevant orders per LOT
How: Information-process model platform national

Only for Migros article and orders

**Receiving**
- Article and LOT supplier
- Article and LOT platform
- Quantities
- Date of receiving
- Order/shipment reference
- GLN supplier
- GLN platform

**Packaging**
- Article and LOT old
- Article and LOT new
- Quantities
- GLN platform

**Shipping**
- Order/shipping reference
- List of articles with LOT and quantity
- GLN platform
- GLN Migros platform
- Date of shipment

**Commissioning**
- Supplier origin
- National platform
- Migros platform

**Storage**

**Returns**

**Per LOT**

**Per packaging**

**Per shipment**
**How**: Information-process model platform Migros

---

**Receiving**

**Preparation and Storage**

**Commissioning**

**Shipping**

**Samples**

**Product-Quality-Data**
- Order reference
- Article
- GLN platform national
- GLN platform Migros
- Sugar (°Brix)
- Acidity (g/l)
- Consistency (kg/qcm)

**Shipmen-Shipment-Quality-Data**
- Order reference
- Article
- GLN platform national
- GLN platform Migros
- Logistic performance
- Quantity pperformance

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The Global Language of Business
How: Event capturing

1. Direct connection
   - System
   - Supplier
     - XML over http(s) Post
   - Migros

2. Via provider
   - Website
   - App
   - Excel
     - Provider
       - XML over http(s) Post
     - Migros
## Actual situation

### 1. Direct connection

<table>
<thead>
<tr>
<th>To contact</th>
<th>Kickoff</th>
<th>Implementation</th>
<th>Connected Direct</th>
<th>Connected Website</th>
<th>Connected App</th>
<th>Connected Excel</th>
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<td>Suppliers</td>
<td>260</td>
<td>47</td>
<td>47</td>
<td>32</td>
<td>6</td>
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<td>National platforms</td>
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### 2. Via provider

- Website
- App
- Excel

## Suppliers

- Migros

## XML over http(s) Post
Overall time plan

<table>
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<tr>
<th>Year</th>
<th>Processes</th>
<th>Suppliers and platforms</th>
<th>Concept</th>
<th>EPCIS design</th>
<th>Internal realization</th>
<th>EPCIS Extension, BI integration, capture apps</th>
<th>Invest decision</th>
<th>Pilot</th>
<th>10 suppliers</th>
<th>1 platform</th>
<th>Roll-out decision</th>
<th>Wave 1</th>
<th>Wave 2</th>
<th>Wave 3</th>
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Wrap up, challenges and success factors

- Why: Missing Transparency, Data silos along the supply chain, process excellence
- How: EPCIS 1.1 with Migros specific extensions (Harvest and quality info)
- Future:
  - Sharing information with all partners. Especially Quality data for suppliers
  - Referencing EPCIS data with other data (sales data, metrological data, farming specific data)
  - Digital Link at POS with GS1-Databar and/or DataMatrix
- Project Challenges
  - GS1 membership, standards (GTIN, GLN) and Know how in fruits and vegetables
  - Deeply structured supplier landscape (multiple suppliers a supplier and again... until farmer)
- Success factors
  1. Provide several options for data capturing to fit suppliers need
  2. We developed and tested with either small and also bigger and automated suppliers. Find a good mix, get an understanding of their processes and share your concepts
  3. Try to avoid process changes
Thanks for your attention!

Alexander Hille
Senior project manager AutoID/EPCIS
Event App – How to rate sessions

1. Open session that you want to survey
2. Scroll to the bottom for **Session Survey**
3. Begin the survey
Contact Information

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