

# GS1 INTERACT

HYBRID EVENT, VIENNA, AUSTRIA  
17 OCT 2024, 10 - 16h CEST

**Next-Generation Barcodes  
for a Sustainable Tomorrow**



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**Camille Dreyfuss**  
GS1 in Europe  
Secretary General

# Agenda for the day

**01**

**Next-generation barcodes: one barcode fits all!**

**02**

**Industry use cases**

- **Jake's Beverages**
- **Metro**
- **Lactalis**
- **Glowkitchen**
- **SWAPP!**
- **Argiano**

**03**

**Let's talk with European Associations: AIM and EuroCommerce**

**04**

**GS1 Sync Star Awards**

**05**

**Industry use cases**

- **Berto**
- **Procter and Gamble**
- **Ocado Retail**
- **Jamael**

**05**

**Call-to-action and wrap-up**

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## GS1 in Europe



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**Jan Somers**  
GS1 in Europe Chair  
CEO GS1 Belgilux



Next generation  
of barcodes.

One barcode fits all.

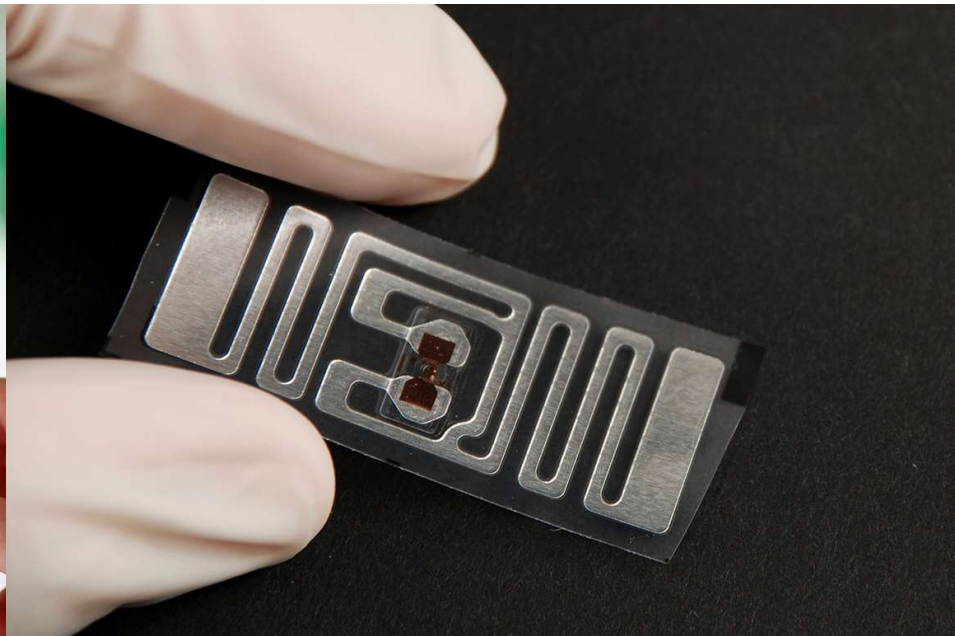
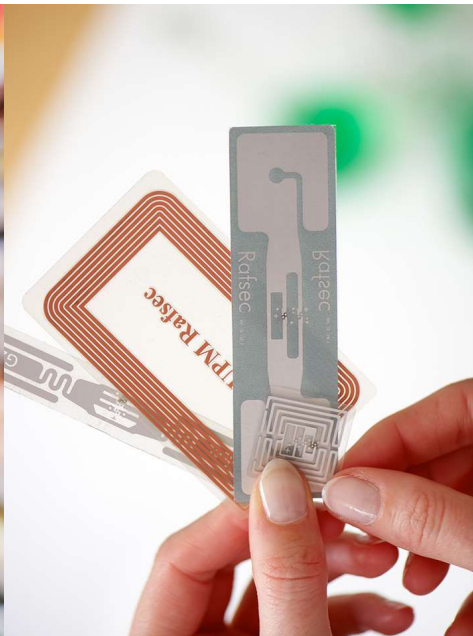




























10 billion



# The Global Trade Item Number



**A linear barcode for a linear economy  
... doesn't fit your challenges anymore**

# **THE SHIFT**

## LINEAR ECONOMY



TAKE

MAKE

DISPOSE

## CIRCULAR ECONOMY



MAKE

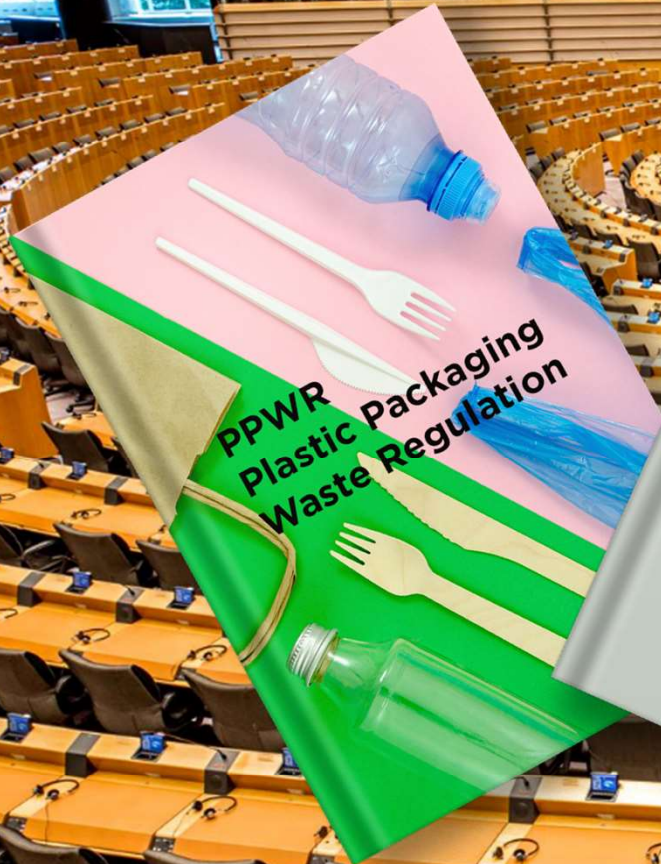
USE

RECYCLE

# Your challenge is MUCH BIGGER



To give some examples



# And this list is not even complete...

**Non-Exhaustive**

## Canada

- **Bill S-211** Fight Against Forced Labor and Child Labor in Supply Chains Act
- **TCFD** Taskforce on Climate-Related Financial Disclosures (being adopted)

## USA

- **CAA** Clean Air Act
- **CWA** Clean Water Act
- **California Climate Disclosure Bills** (SB-253 and SB-261)
- **New York Fashion Sustainability and Social Accountability Act**
- **SEC** Mandatory ESG Reporting
- **ULFPA** Uyghur Forced Labor Prevention Act

## Brazil

- **CVM 193 Resolution** based on ISSB
- **National Solid Waste Law**

## Germany

- **LKSG** German Supply Chain Due Diligence Act

## France

- **AGEC** Anti-Waste Law

## European Union (EU)

- **CBAM** Carbon Border Adjustment Mechanism
- **CSDDD** Corporate Sustainability Due Diligence Directive
- **CSRD** Corporate Sustainability Reporting Directive
- **ESPR** Eco-Design for Sustainable Products Regulation (incl. Digital Product Passport [DPP])
- **ESRS** European Sustainability Reporting Standards
- **EU Taxonomy**
- **EUDR** EU Deforestation Regulation
- **GPSD** General Product Safety Directive
- **GCD** Green Claims Directive (incl. Empowering Consumers Directive [ECD])
- **PPWR** Packaging & Packaging Waste Regulation
- **WFD** Waste Framework Directive

## South Africa

- **CIPC's** ESG Reporting Framework
- **JSE** Johannesburg Stock Exchange's ESG Reporting Requirements

## Australia

- **Mandatory Climate Reporting Bill** (draft ISSB aligned legislation)
- **Modern Slavery Act**

\*some of the regulations have not yet been adopted

# You're facing many challenges!

- Sustainability and a circular economy
- Transparency, efficiency and traceability in the value chain
- Due diligence and accountability at corporate level
- E-commerce, personalisation and consumer engagement
- The transition to next gen barcodes







Who?



What?



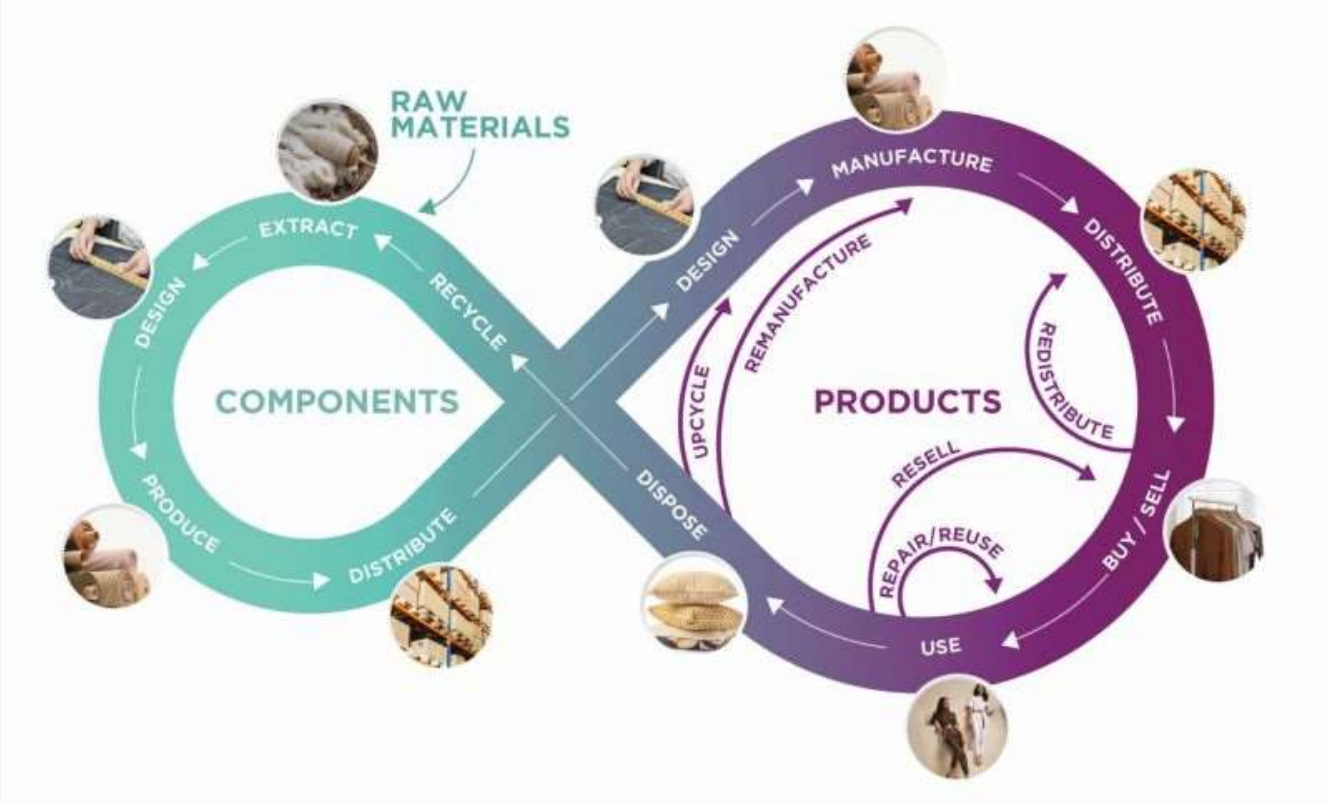
Where?



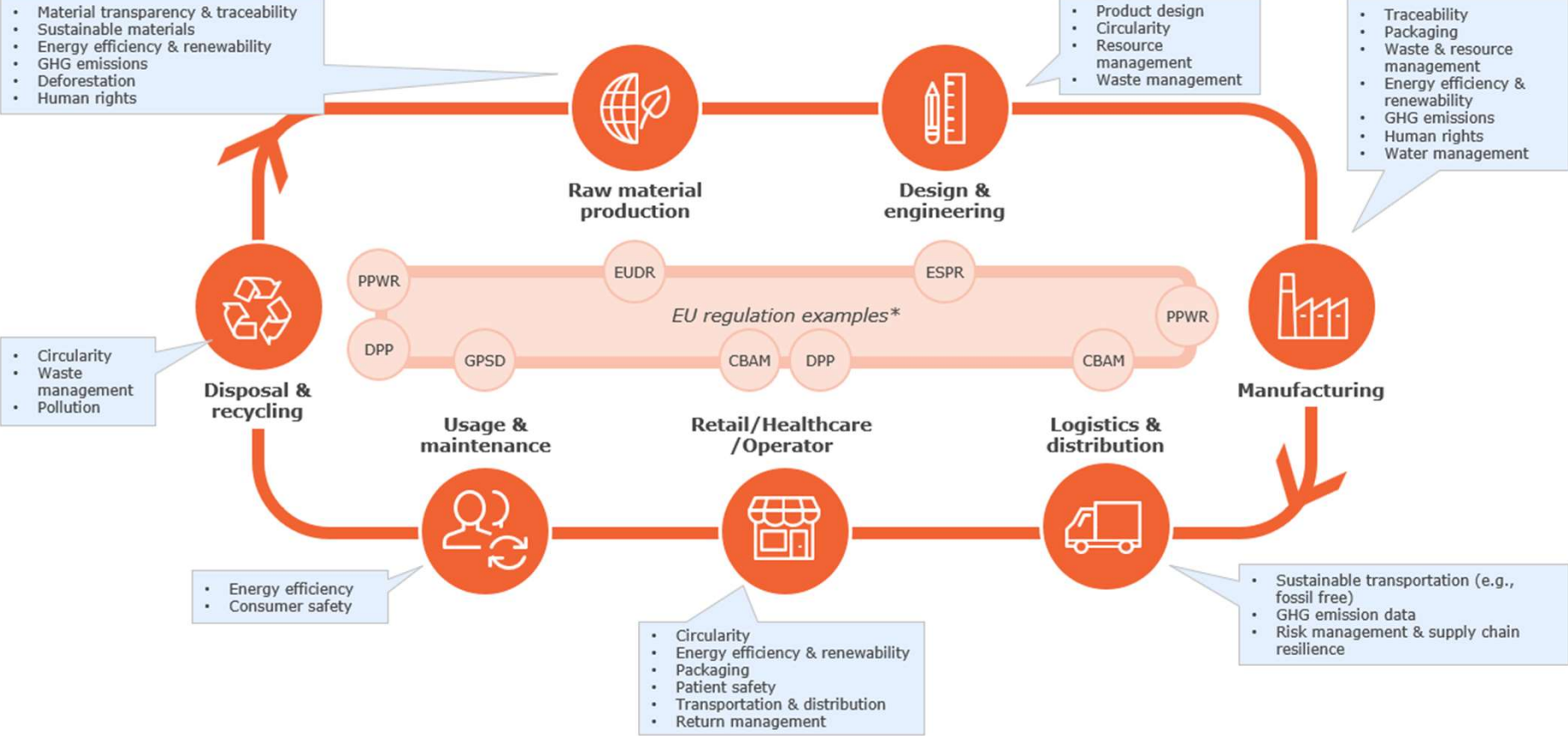
How?



# An unprecedented amount of data is needed



# for an unprecedented number of use cases



# We need to shift to a new ecosystem to serve B2B B2C B2G existing and new needs

1. To guarantee universal listing and sales
2. To facilitate operational efficiency
3. To ensure consumer and patient safety
4. To ensure consumer engagement
5. To facilitate end-to-end traceability & circularity
6. To enable trade digitalisation and verification

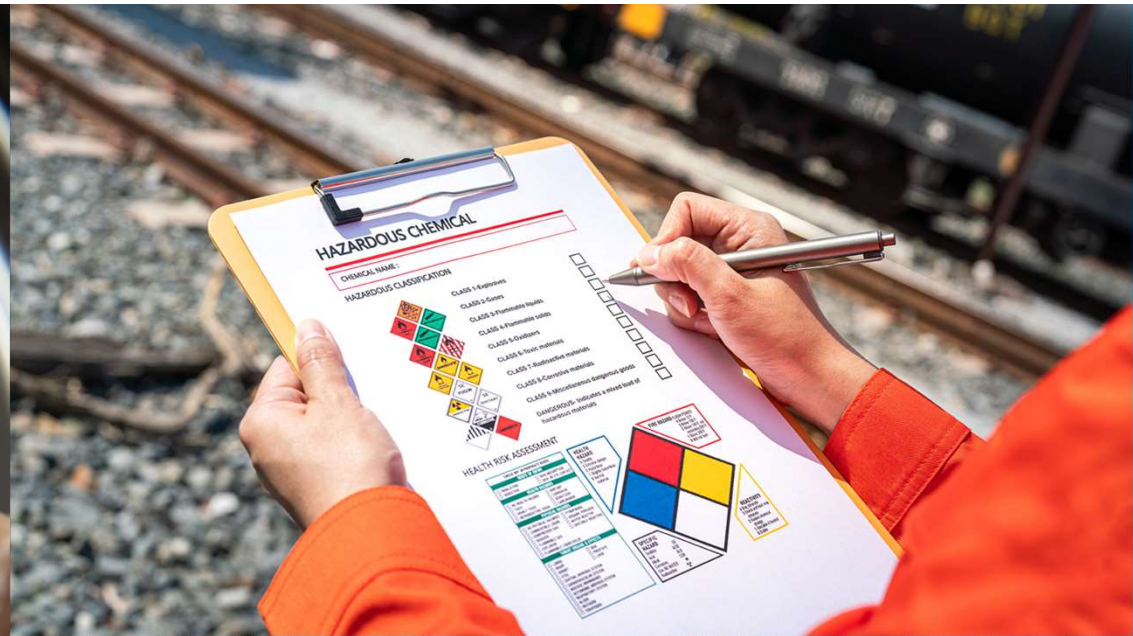
# Ambition 2027





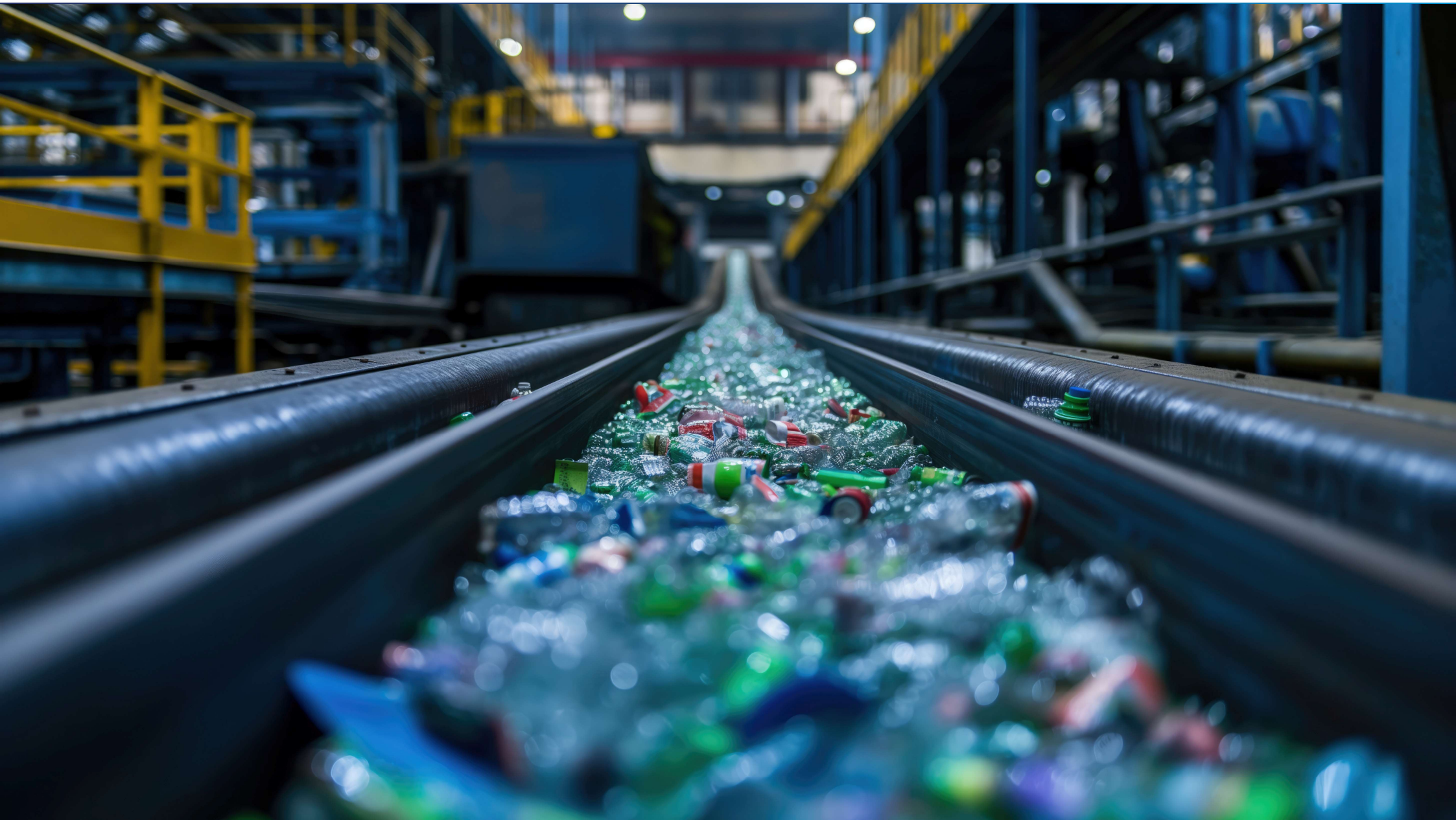


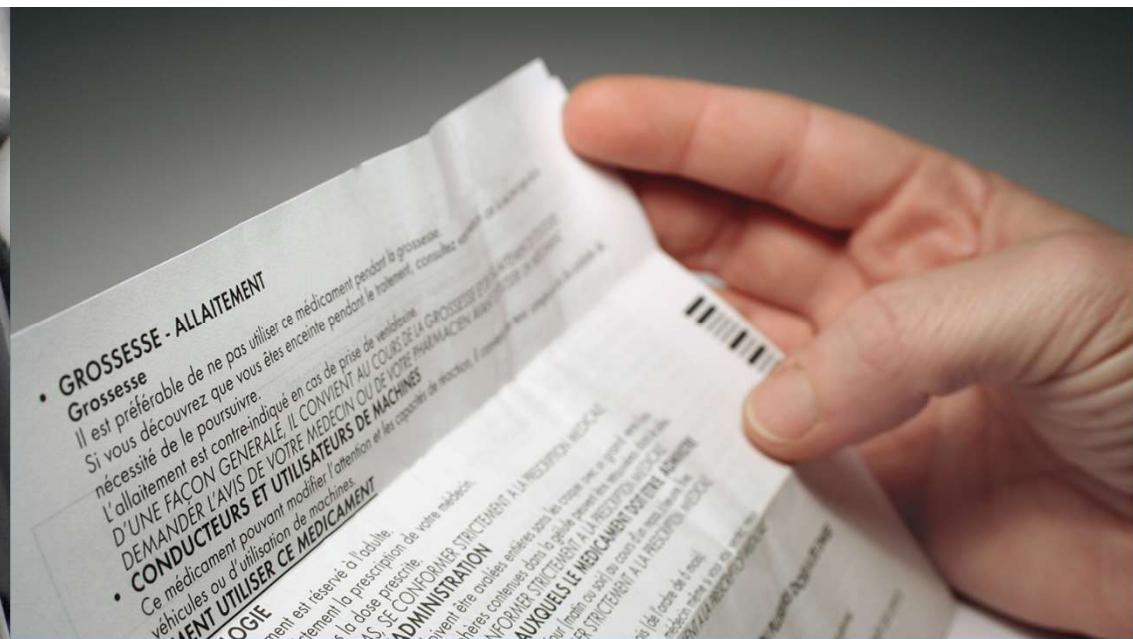




SKU	 10-00465	C/NO: DL17-06 DATE: 18-SEP
DESC: BLACK-K		QTY LZ  10
	 009785511925	
SN	 038LZD0TDG	



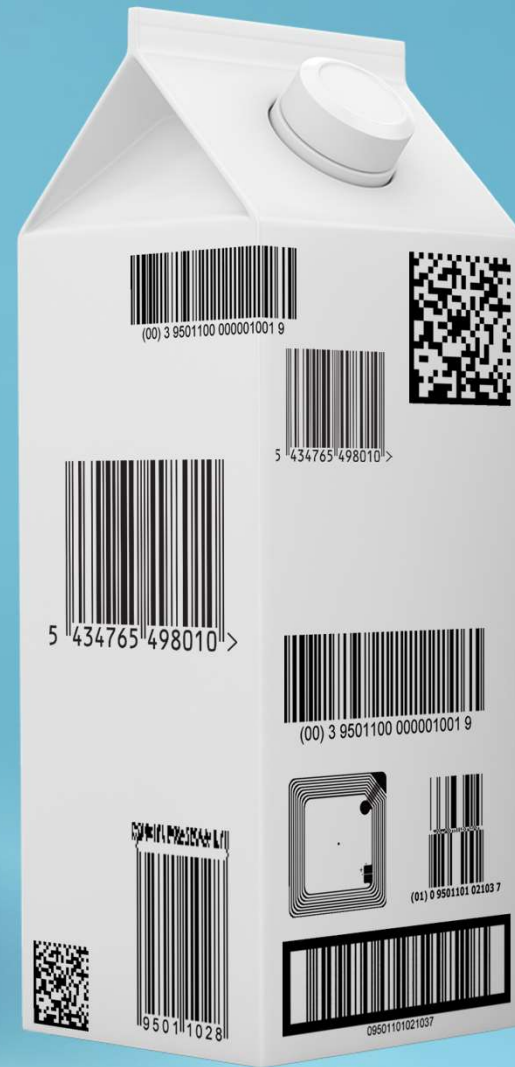




# Will this be the future?

For each use case an...

- additional identification number?
- additional barcode?
- additional license fee?
- additional data upload?
- additional API?





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**Robert Beideman**  
Chief Product Officer  
GS1 Global Office

# The Identification of Everything Makes Anything Possible







Everything will have  
a high-fidelity digital twin...

# GS1 helps you to:

1. Give things unique identity.
2. Connect that identity to trusted data.
3. Use that trusted data to power your business.
4. Connect that trusted data to the world.

## So that you can...



Reduce costs.  
Create experiences.

Grow your business...while navigating an increasingly-complex regulatory landscape.

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Transparency.  
Speed.

Trust.

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# 3 layers of GS1's toolbox:

1. Foundational Identification (using the GS1 Digital Link standard)...to increase **trust**.
2. A standardised vocabulary for sharing data with Regulators and on the Web...to **speed** up compliance with requirements for sustainability reporting.
3. Links to additional, authoritative data sources via Verified by GS1...to increase **transparency**.



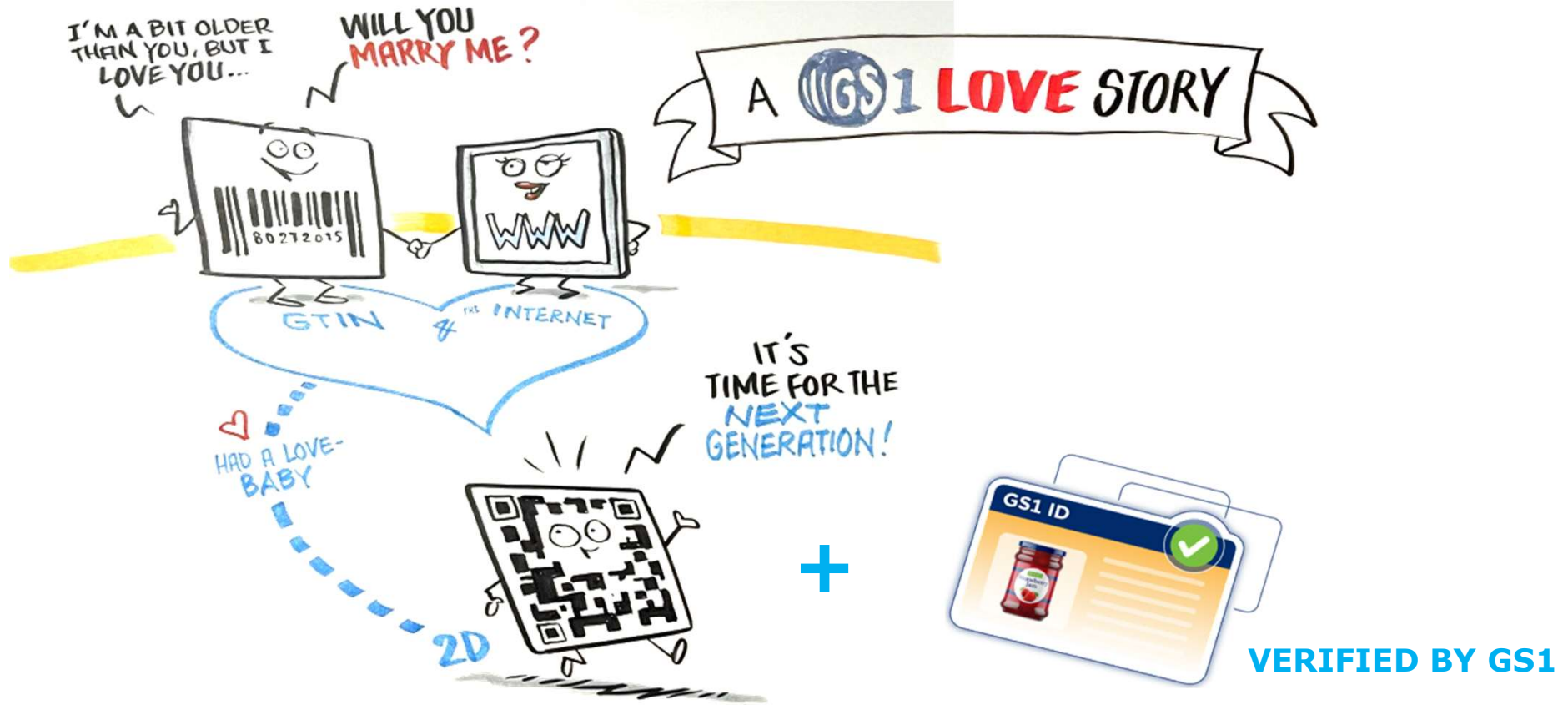
**A platform of  
connection and  
discovery.**

**GS1  
INTERACT**

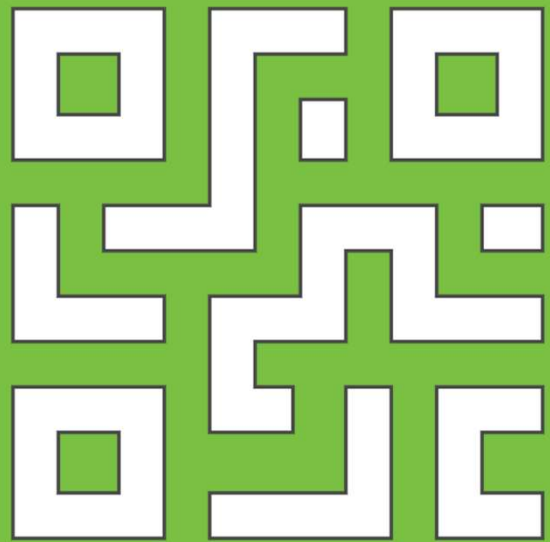
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# The beginning of a new revolution...



# 2D barcodes powered by GS1



**A platform of  
connection  
and discovery.**



2D barcodes powered by GS1 are a platform for connection and discovery.



09506000149301

<https://id.gs1.org/01/09506000149301/10/AB-27?17=271231>

# A Platform for Sharing Data on the Web and with Regulators



5:02  
productpage.gs1belu.org

Fatty acids, totally saturated	2.8 Grams	11 Grams
Carbohydrates	12 Grams	48 Grams
Sugars, Tot, Expression Unknown	2.9 Grams	12 Grams
Dietary fiber	0.8 Grams	3.2 Grams
Protein, Total; Method Of Determination Unknown Or Variable	7 Grams	28 grams
Salty	0.83 Grams	3.2 Grams
%* Per 400 Grams (unprepared)		
Energy		31%
Fats		49%
Fatty acids, totally saturated		55%
Carbohydrates		
Sugars, Tot, Expression Unknown		13%
Dietary fiber		
Protein, Total; Method Of Determination Unknown Or Variable		
Salty		53%

\*RI = Reference intake of an average adult (8400 kJ/2000 kcal).

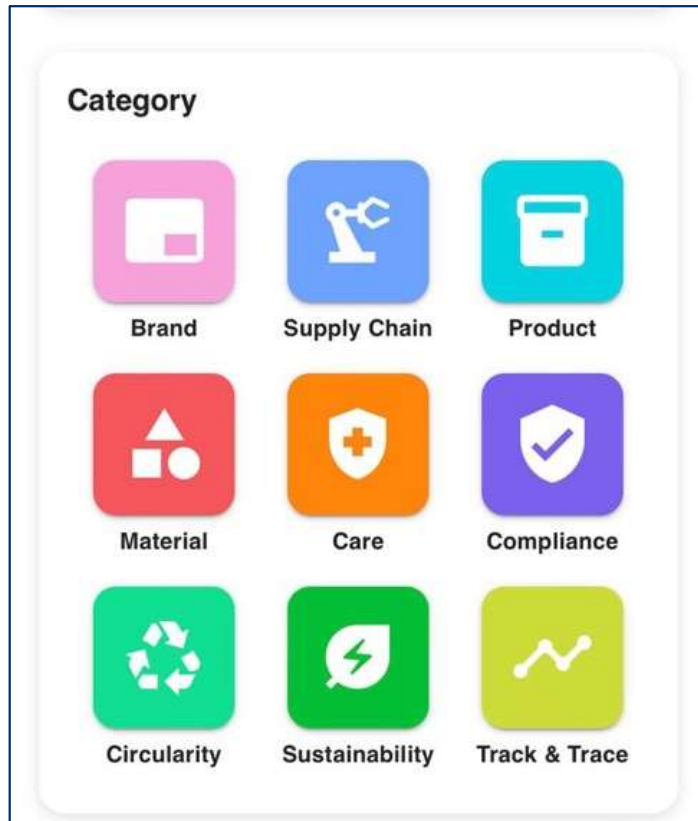
**Links to other pages**

- [Product Information Page \(Dutch\)](#)
- [Organization Information Page](#)
- [Certification Information](#)
- [Sustainability and recycling \(Dutch\)](#)
- [Recipe website \(Dutch\)](#)



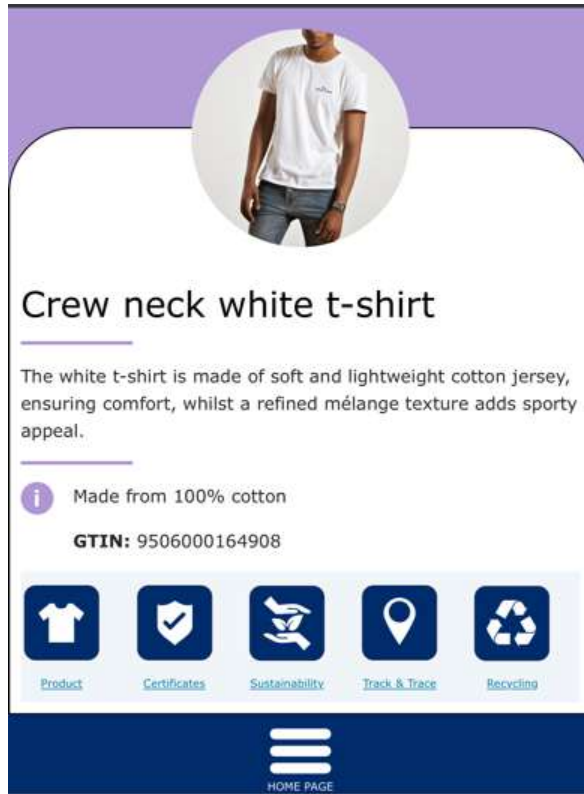
(01) 05413848131907

# A Platform for Claims and Sustainability Reporting



(01) 04891668001173

# A Platform for Certifications and Trust



**Crew neck white t-shirt**

The white t-shirt is made of soft and lightweight cotton jersey, ensuring comfort, whilst a refined mélangé texture adds sporty appeal.

Made from 100% cotton  
GTIN: 9506000164908

Product Certificates Sustainability Track & Trace Recycling

HOME PAGE



**bluesign**

**CERTIFICATE**

Awarded to bluesign<sup>®</sup> SYSTEM PARTNER  
**Ocean Lanka (pvt) Ltd.**  
BEPZ Block 9, Walgama, Malwana, 11672 Biyagama, Sri Lanka  
This certificate attests that the article range

**Knits**  
only valid in connection with an entry in the bluesign<sup>®</sup> GMDN for exact article identification

manufactured in  
Ocean Lanka (pvt) Ltd.  
BEPZ Block 9, Walgama, Malwana, 11672 Biyagama, Sri Lanka  
meets the relevant bluesign<sup>®</sup> CRITERIA.  
Furthermore, above company is granted authorization to use the trademark

**bluesign<sup>®</sup> APPROVED**  
for above article(s) according to the valid communication guidelines.

Certificate number: 034.587.002  
Certificate valid until: June 12, 2025

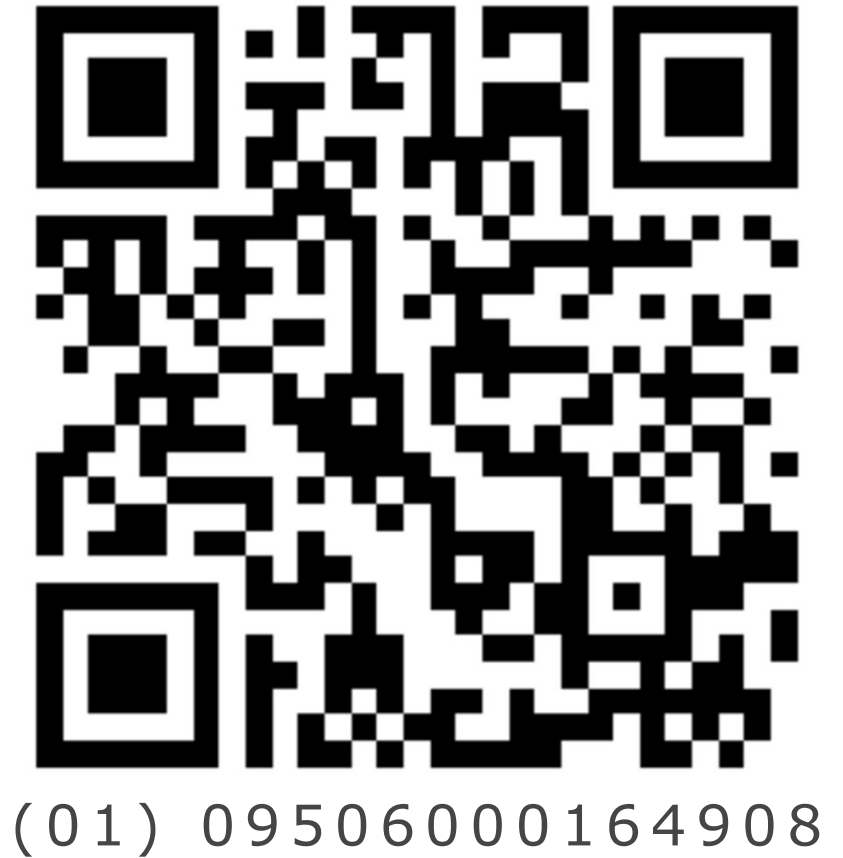
St. Gallen, July 8, 2022

*[Signature]*  
Daniel Rüfenacht  
CEO  
bluesign technologies ag

bluesign<sup>®</sup> SYSTEM PARTNERS are responsibly acting parties of the textile supply chain committed to applying the bluesign<sup>®</sup> SYSTEM. They aim to continuously improve their environmental performance and are focused on a sustainable future.

bluesign technologies ag | Moevenstrasse 18 | 9013 St. Gallen | Switzerland  
Phone +41 (0)71 272 29 90 | info@bluesign.com | www.bluesign.com


A Member of the **SCS GROUP**



# A Platform for Digital Product Passports

Sustainability

**SOCER**  
based in Chbedda - Ben Arous  
**GLN Headquarters:**  
**6192600400008**  
Specialized in Ceramic Tiles and Flooring




Socer offers a wide range of ceramic tiles for wall coverings in kitchens, bathrooms or any other living space. Our collection of wall tiles offers you a multitude of possibilities for an innovative and elegant decoration, which meets all tastes, atmospheres and desires. Choose from our collection and assert your style at low prices!

**GLN of departure:**  
**6192600400015** Ceramic Factory Chbedda


Currently the product is in the Carrefour Tunis store

in manufacturing



GLN Factory  
**6192600400015**  
The factory receives the order, organizes it, packs it and makes it available for shipment.

in transition



(01) 06192600405591



# A global ambition

with a 1<sup>st</sup> milestone by the end of 2027

There is **a rapidly increasing demand for more information** about the products we use and consume. To meet this demand, **industry has set a goal** that, **by the end of 2027, all retail POS systems should be capable of reading and processing a defined set of 2D barcodes** with GS1 standards, **in addition to existing linear barcodes.**

As the transition to scanning of 2D barcodes with GS1 standards at POS unfolds progressively on different timelines across the globe, **brand owners should already be exploring and implementing the most appropriate 2D barcode to address priority use cases** for their products and meet critical consumer and business needs.



(01)09521101530001

**QR code  
powered by GS1**



(01)09521101530001

**GS1 DataMatrix**



(01)09521101530001

**Data Matrix**

# Most common barcodes used for Ambition 2027



(01)09521101530001

## QR Code powered by GS1

- Used for **consumer engagement** as it connects to the web **without needing an app or specialised solution**
- Scans at **point-of-sale**
- **Encodes additional data** e.g., for traceability and safety



(01)09521101530001

## GS1 DataMatrix

- **Encodes additional data** e.g., for traceability and safety
- Essential for **regulated healthcare products**, including those sold directly to the consumer
- Scans at **point-of-sale** and **point-of-care**
- Provides opportunities to connect to the web **using apps and specialised solutions**
- Offers a **very compact** way to encode data

**A challenge we have in common:**

**to succeed at scale the migration from the traditional barcode to next gen barcodes powered by GS1**





# A global ambition

## In partnership with The Consumer Goods Forum

The retail and consumer goods industries support the transition to QR Codes with GS1 standards



Placing QR Codes with GS1 standards on product packages worldwide will enable manufacturers and retailers to provide new powerful digital experiences, engaging consumers and shoppers as they interact with products—whether in store, at home or out in the world.

### From GS1 barcodes to QR Codes with GS1 standards

This year marks the 50th anniversary of the first product barcode to be scanned in a grocery store. In the early 1970s, retailers and manufacturers worked together with GS1—the global organization for data standards—to adopt the barcode as the universal way to identify products. The GS1 barcode is used today on billions of products worldwide and is great for enabling many processes like scanning at checkout, category management, fulfillment in distribution centers, and much more.

Today, more than ever, consumers and regulatory bodies are demanding more product information, such as usage instructions, safety, ingredients, nutrition, certifications, recycling, etc.—and there is an ongoing need for enhanced product traceability through the supply chain to mitigate risks and improve customer service. However, the traditional barcode that has served us so well doesn't have the capacity to support these future needs.

To meet these new demands, the consumer goods industry will be best served by transitioning to QR Codes with GS1 standards, as they can store extensive amounts of product information and are easily accessible via smartphones. This would open a range of new possibilities, providing all the information consumers need and desire, improving traceability and driving efficiencies through the supply chain, while still enabling scanning at check out.

### Sunrise 2027 initiative

The signatories of this letter join the members of the GS1 Management Board in declaring their support for the transition to QR Codes with GS1 standards.

The companies of the GS1 Management Board aligned it would be essential for the overall success of the industry to transition to QR Codes with GS1 standards as an innovative and forward-looking response to today's business and consumer needs. The aim of this initiative is that, by the end of 2027, QR Codes with GS1 standards should be widely adopted: used by manufacturers on their product packaging and retailers around the world having the ability to scan these barcodes at Point of Sale (POS).

For Sunrise 2027 to succeed, industry must once again come together to adopt a unified approach, requiring changes from both retailers and manufacturers. We expect that this transition would happen gradually and believe that those that lead this transformation will be best positioned to unlock valuable new capabilities and provide more benefits to their customers, shoppers, and consumers.

### Together, let's start the transition to QR Codes with GS1 standards now!

This major industry shift has already begun, with pilots in 48 countries across all regions and representing 88% of the world's GDP. This is a strong foundation, and a collective effort is now needed from the entire industry to make Sunrise 2027 happen:

- **Manufacturers** should start implementing QR Codes on product packages with GS1 data standards inside.
- **Retailers** should ensure POS scanners are equipped to read QR Codes with GS1 standards.



To learn more about QR Codes with GS1 standards and get involved, go to: [www.gs1.org/2D-barcodes](http://www.gs1.org/2D-barcodes)

\* Read GS1 Competition Law Caution [here](#).

 Gang Yu (Ruohai) Chief Technology Officer, Taobao & Tmall Group (Alibaba Group)	 Malina Ngai Group CEO, AS Watson Group	 Francesco Del Porto Global Chief Customer Officer & President Region Italy, Barilla Group
 Alexandre Bompard Chairman and CEO, Carrefour	 Prasit Mongkolkeha Vice President, Purchasing, CP ALL Thailand	 Dr. Simon Papies Head of Logistics Division, Dr. Oetker
 John Ross, President & CEO, IGA Mark Batanic, Chairman, IGA	 Simon Han Vice President, JD.com; President, Department of Ecosystem Service, JD Retail	 Peter Fischer Member of the Board, Lidl International
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 Bertrand Mothe CPO, Metro	 O. Ozgur Tort CEO, Migros Tikaret A.S.	 Silvia Bagliani Vice President & Managing Director Italy, Mondelēz International
 Good food. Good life. Béatrice Guillaume-Grabisch Executive Vice President, Group Human Resources & Business Services, Nestlé	 Jon R. Moeller Chairman of the Board, President & CEO, The Procter & Gamble Company	 FROMAGE & DAIRY Olivier Delamée CEO, Savencia Fromage & Dairy
 Mark Smucker President, CEO & Chair of the Board, The J.M. Smucker Co.	 青岛啤酒 Shuiyuan Yun Vice President, Tsingtao Beer Group; President, Supply Chain, Tsingtao Beer	 Shaochua Meng Vice President, Henan Shuanghui Development Co. (WH Group)
 Zhenyou Yun Vice President, Yili Group		

# So we can go from this...



Barcode/ID for POS

Barcode/ID for sorting

Barcode/ID for Digital Product Passport

Certification label 1,  
Certification label 2,  
Certification label 3,

Barcode for consumer engagement

Barcode/ID for traceability

# ... to this (from 2028 onward)



*Don't worry,  
the QR code can be much smaller than this*

# So...what happens between now and 2028?

Before: traditional barcode



Now – 2027: old + new barcode



Once 2D barcodes are scanned everywhere: only one barcode



# In conclusion: 2D barcodes powered by GS1 are the new symbol of global trade



**Our message:**

**Enjoy this day and benchmark  
with the use cases**

**Get started today!**

00:30:00

MIN

SEC

MS

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## THANK YOU !!!

THE SLIDE DECK AND THE RECORDING OF  
THE SESSION WILL BE SHARED AFTERWARDS