

# Innovation Insights



**Closing the loop of  
re-usable items with  
GS1 standards**



# GS1 Competition Law Caution

GS1 Belgium & Luxembourg operates under the GS1 Competition Law Caution. Strict compliance with competition 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

This applies not only to discussion in formal meetings but also to informal discussions before, during or after meetings.

More information:

<http://www.gs1.org/gs1-competition-law-caution>

<http://www.gs1belu.org/nl/deontologische-code>

<http://www.gs1belu.org/fr/code-deontologique>



# What will you learn?

- Enable circularity with GS1
- Aucxis RFID Solutions
  - Who are they?
  - What is RFID?
  - Use cases
- Wrap-up and Q&A



# Our ambition

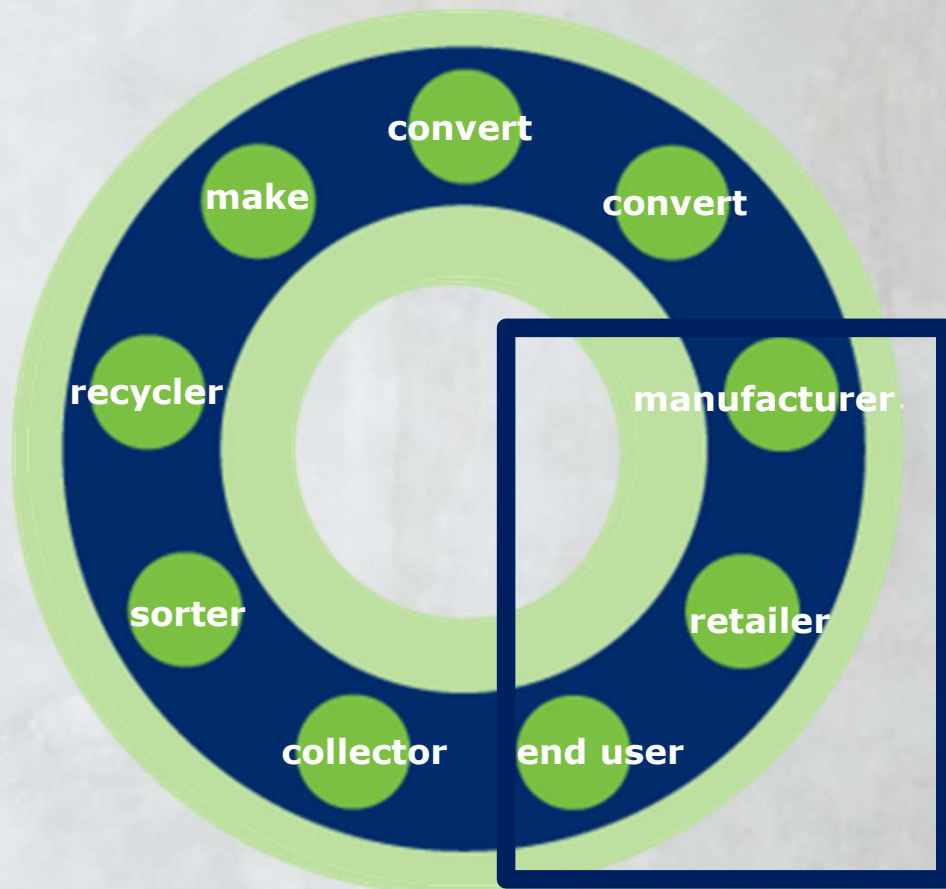
Our ambition is to **protect** and to **create value** for our members along the customer journey

Our objective is to enable the circular economy with **trusted identifiers** and **trusted data**

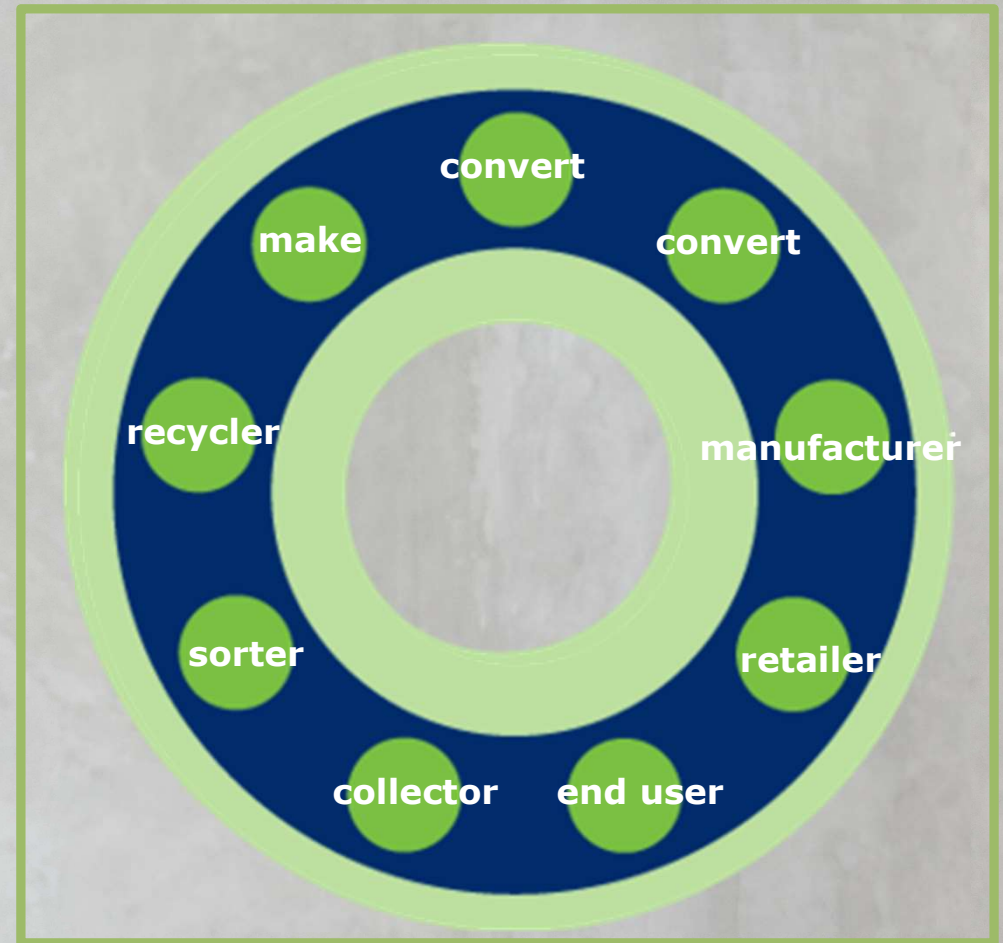




# Our ecosystem



**AS IS ecosystem**  
→ To protect



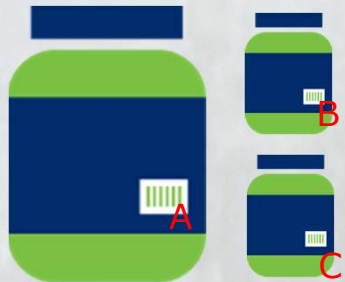
**TO BE ecosystem**  
→ To create value

# Our solutions

**GTIN**

sGTIN

**(serialised) Global Trade  
Item Number**



**GLN**

**Global Location Number**



**GRAI**

**Global Returnable Asset  
Identifier**







88

(8003)040 55923 99988 3 100004(90)02

The label is white with a red border. It contains a QR code on the left, an RFID symbol in the center, a barcode on the right, and the number '88' in an orange box above the barcode. Below the barcode is the alphanumeric string '(8003)040 55923 99988 3 100004(90)02'.



# Conclusion

## Identifiers

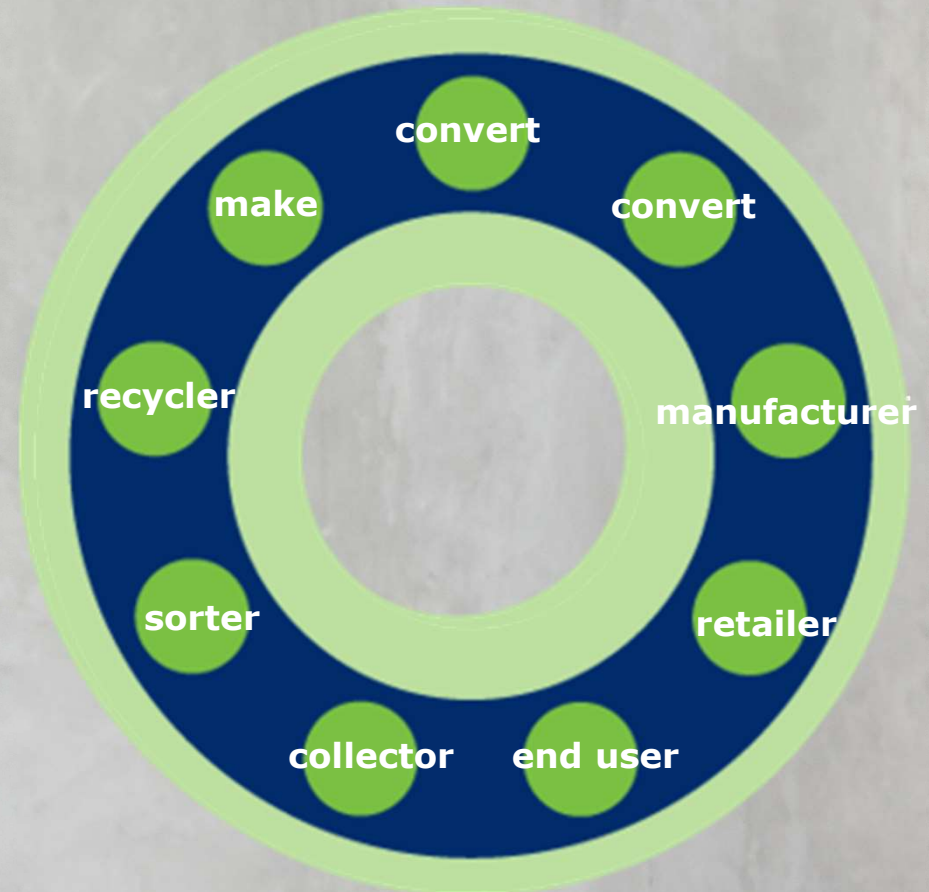
- Unique, open and interoperable
- Verified and authenticated
- For economic operators (GLN)
- For products (GTIN)

## Data linked to identifiers

- For multiple lifecycles
- Based on EU/globally harmonized data models and architecture
- Quality ensured

## Data exchange

- Open and interoperable
- For master data (GDSN)
- For event data (EPCIS)
- For transactional data (EDI/Peppol)





# GS1 Innovation Insights

webinar

Thursday 16 Nov.  
13:00 h to 14:00 h

keynote speaker



Jason Scrivens

CINO &  
Business Unit Manager RFID

**AUCXIS**  
RFID SOLUTIONS

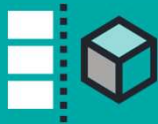
# About us

Since



**1983**

Business units



**3**

Turnover



**+7M**  
euros

Shareholders

**Mats, Eface  
and Lava**

Employees



**50+**

Active in



**73**  
countries

Headquarters



**Stekene**  
Belgium

Qualitative partners  
and suppliers



**Various**



Sectors

**ISO 9001**

Certified

# What is RFID?



Radio Frequency  
IDentification



# How does RFID work?



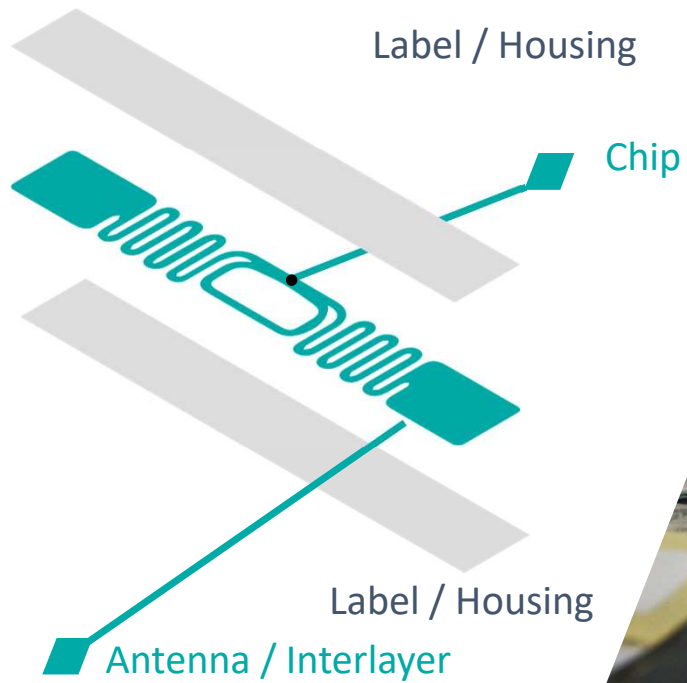
Passive



Active



# Passive RFID tag





# Circularity



Creating a closed-loop system where resources are used, recycled, and reused in a sustainable manner

## Digital Product Passport

What does my product look like (composition)?

How to use and reuse it? How to repair?

How to disassemble? How to recycle?

RFID enables:

**Complete lifecycle transparency**

**Identification and authentication**

**Tracibility**

**Optimizing Inventory**



## GS1 Standards

Unique identifiers

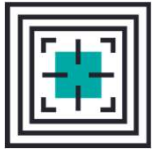
Globally recognised

Compatibility different systems

Overall supply chain visibility



Belgium & Luxembourg



# Cases





VLV



# Track & trace, pool management



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RAFC



# Tracking Reusable Cups and automatic refund



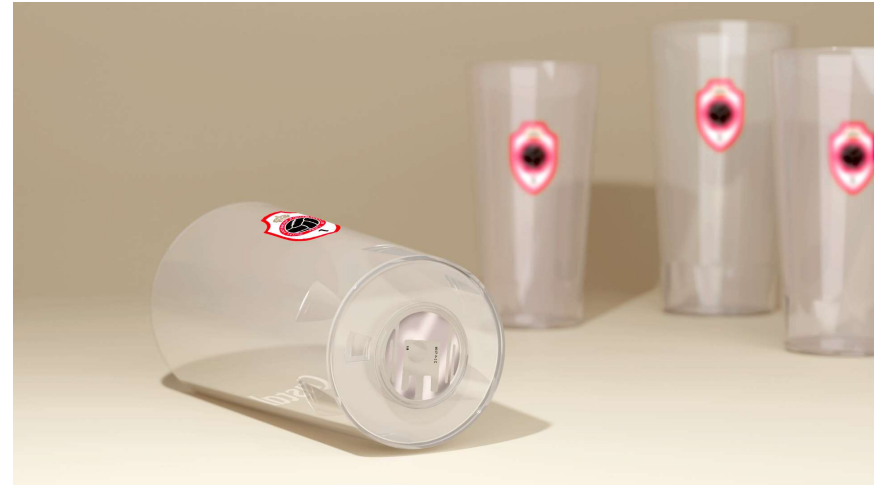




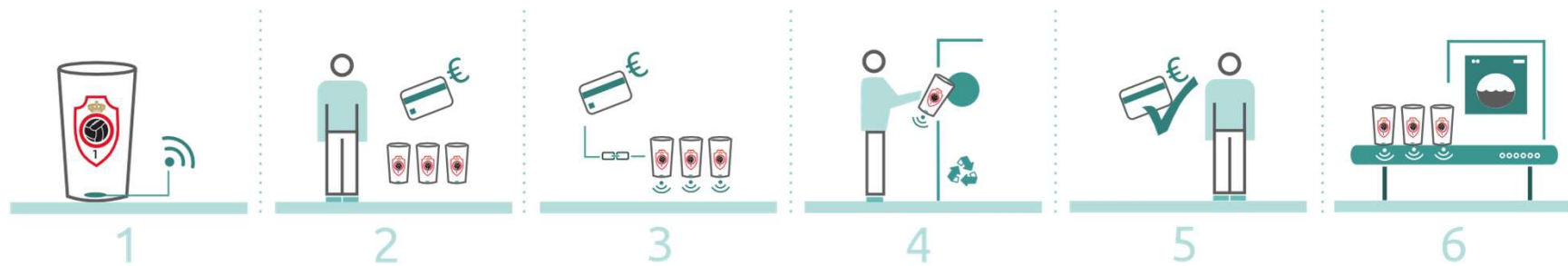
## Tracking Reusable Cups and automatic refund



Full traceability  
Automated Refund Process  
Speed and efficiency  
Time and cost savings  
Improved data accuracy



### How does it work?





LEVEL



# Track & Trace of concrete blocks with RFID

LEVEL  
LELY'S ERFGOED VEILIGGESTELD



AUCKIS  
RFID SOLUTIONS



VEILING  
HOOG-  
STRATEN

# Automatic tracing with vision and RFID technology



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RFID SOLUTIONS



# BEKINA

## Tracing of professional boots



RFID NR: 1210-2110-001

Order: V0011836

Reader	Count	Total
Reader2	169	260
Reader3	156	260
Reader4	156	260

Total Tags: 187 / 260

Order #	Date	Qty	Name	Customer	Subtotal	REQ Date	QTY	Busy
10	2021-11-29	260	XANUSI180AP10	Alfama Mercantile S.L.	V0211836	29-11-2021	260	
11	2021-01-01	20	XANUSI180AP11	KL2107	V0210585	01-01-1900	20	
12	2021-04-10	60	XANUSI180AP12	URSUIT OY	V0211672	04-10-2021	60	



POLYSTO



# Identification of polymer composite kerbs

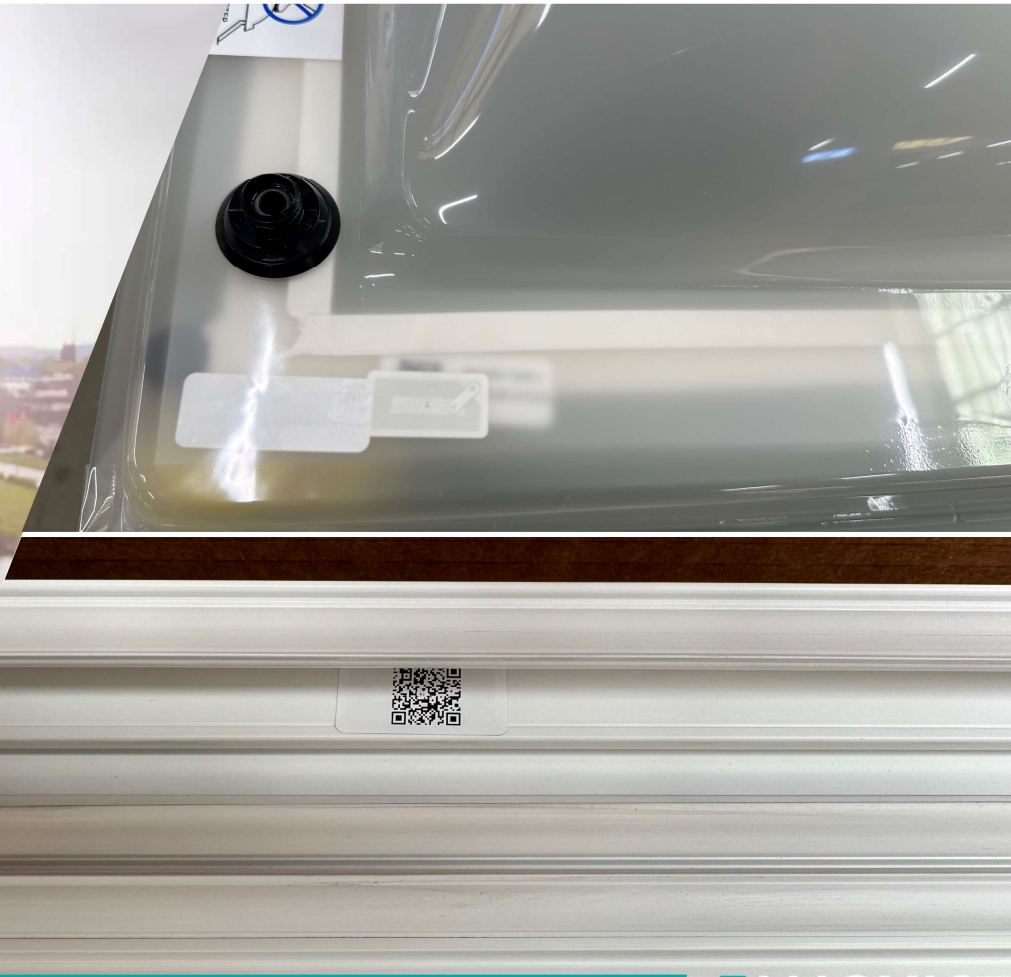




SKYLUX



# Dual Frequency: tracking and product info



# Market trends

Improved hardware

Hybrid solutions

HERTZ

Bluetooth®

Bluetooth® Low Energy

Growth markets

Innovations: Smart gate with ML



# GS1 Innovation Insights

thank you for participating

 **AUCXIS**

RFID SOLUTIONS

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