



# GS1 at a glance

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Neutral and  
Not-for-Profit

User-driven

Global  
and local

Inclusive and based on  
cooperation

# Sectors...

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**GS1 offers standards & solutions in more than 20 sectors ...**



Retail



Marketplace



Healthcare



Fashion, Sport  
& Textil



Rail &  
techn. Industries



Rawmaterial &  
Packaging



eGovernment



Building &  
Construction

# Without STANDARDS...

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Inefficient,  
time-consuming,  
painful,  
expensive,  
disruptive,  
volatile,  
faultily



# GS1 – the global language of business...

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GS1 System offers consensus-based **global, cross-sectorial Standards** for **Identification** and **Communication** based on agreements for the use of **barcode symbologies** and electronic data exchange.



Identify



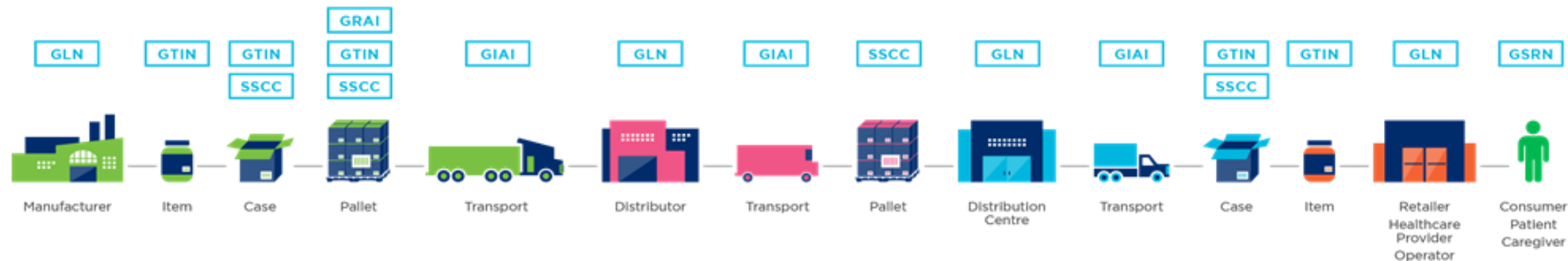
Capture



Share

## Identify: GS1 Standards for Identification

GLN Global Location Number    GTIN Global Trade Item Number    SSCC Serial Shipping Container Code    GRAI Global Returnable Asset Identifier    GIAI Global Individual Asset Identifier    GSRN Global Service Relation Number



## Capture: GS1 Standards for Barcodes & EPC/RFID

### GS1 Barcodes

EAN/UPC



GS1-128



ITF-14



GS1 DataBar



GS1 DataMatrix



GS1 QR Code



GS1 Composite Barcode



EPC HF Gen 2



EPC UHF Gen 2



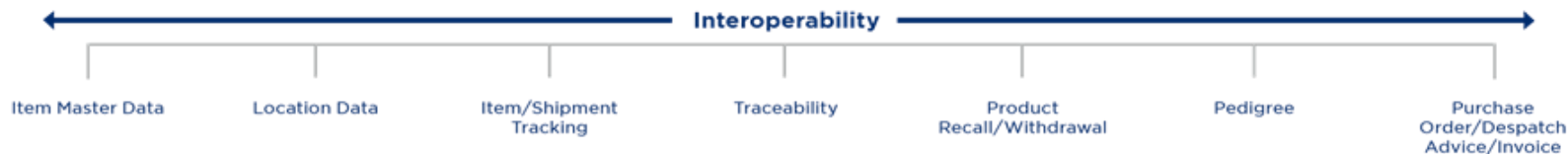
### GS1 EPC/RFID

## Share: GS1 Standards for Data Exchange

**Master Data** Global Data Synchronisation Network (GDSN)

**Transactional Data** eCom (EDI)

**Event Data** EPC Information Services (EPCIS)



# Circularity – Digital Product Passport

LINEAR ECONOMY



RECYCLING ECONOMY

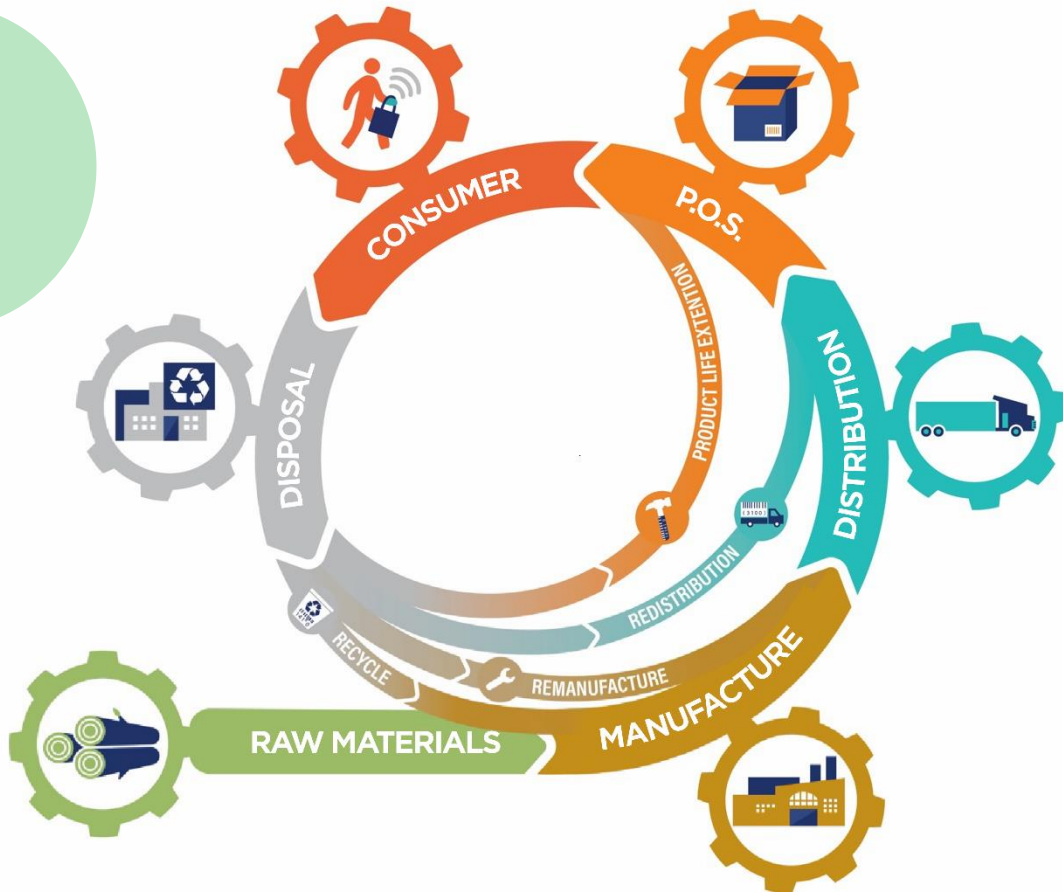


CIRCULAR ECONOMY

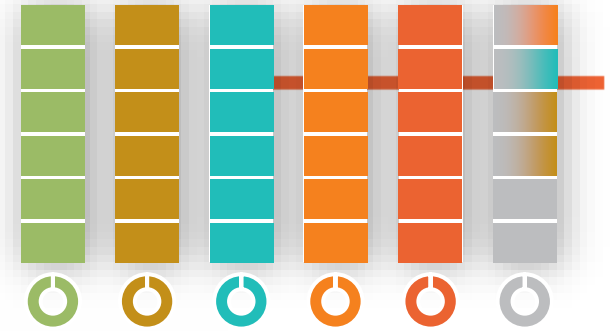


<https://productasaservice.net>





## Digital Product Passport Data



## GS1 Standards



GTIN

GLN

SSCC



RFID

barcode

2D



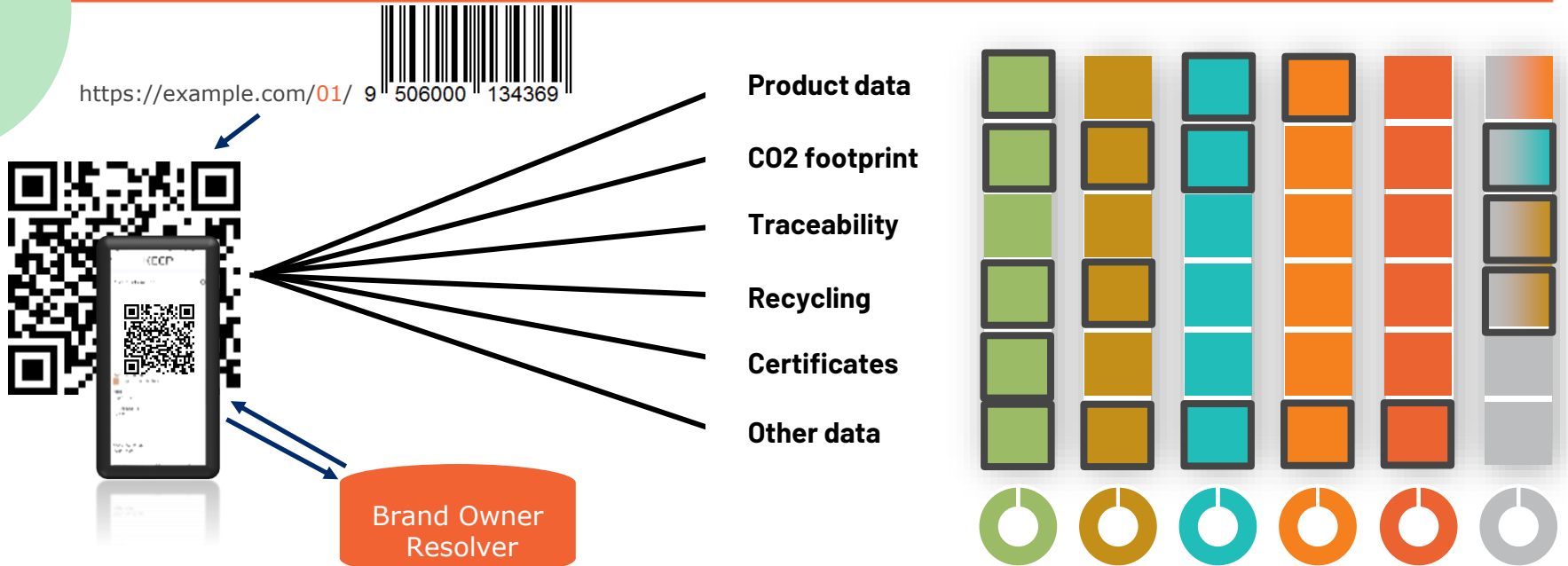
EPCIS

GDSN

Digital Link



# Connecting the product to distributed DPP data



**Resolver:** IT system that allows verified product data to be transferred in real-time from a variety of different sources to many recipients, without being compromised.

Ca...

Certifications

Repairability

Warranty

User manuals



# The ProPare prototype

A global, standardized infrastructure for Digital Product Passports

Prepare for



# Partners

Steering group



Brand owners



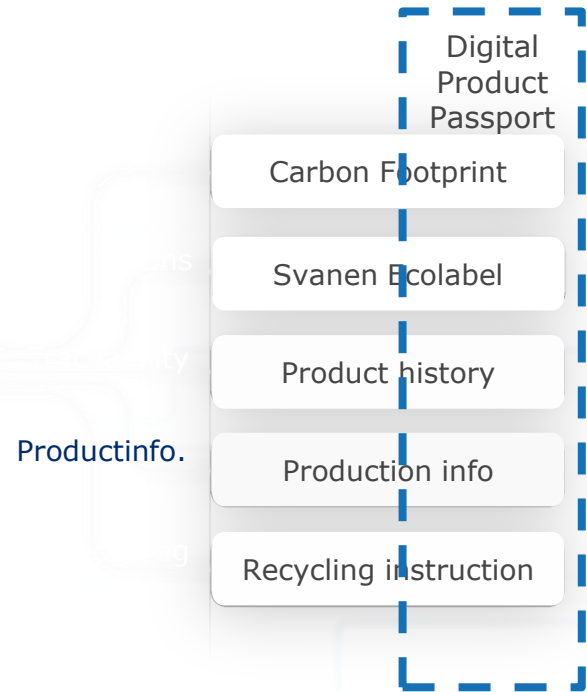
App Developer



<https://youtu.be/VIDnqWCQvOk>

# Connecting the product identifier with the Digital Product Passport

<https://example.com/01/9506000134369/21/jk8jnnN67dj>



**Resolver:** IT system that allows verified product data to be transferred in real-time from a variety of different sources to many recipients, without being compromised.

# Now, let's scan!

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- Scan with the ProPare app to get DPP data
- Scan with camera or other scanning app to see default product page



(01) 07322976568142



(01) 07340083481826



(01) 07340080791454



# How it works



<https://id.gs1.se/01/>

9 506000 134369



Productinfo.

Carbon Footprint

Svanen Ecolabel

Product history

Production info

Recycling instruction

# Fallback slide: How it looks in the ProPare app

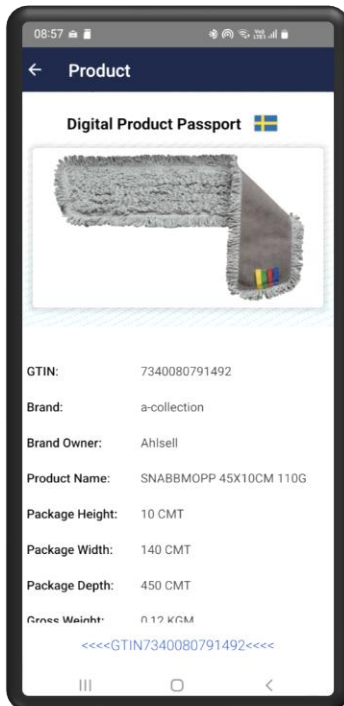
Open app



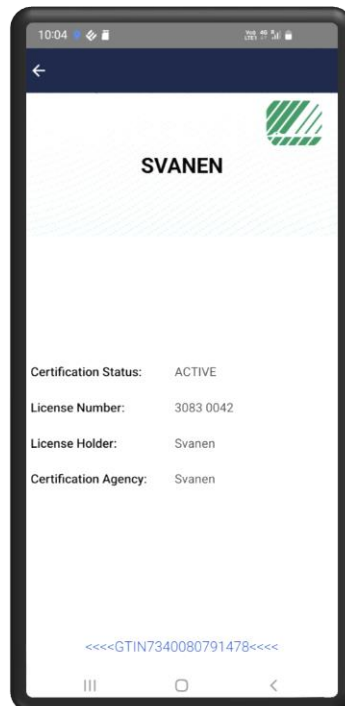
Scan QR code



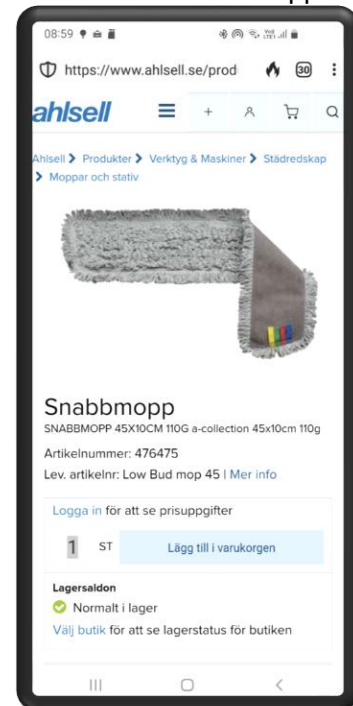
View basic data



View certification



Same QR without app



# What are the ProPare deliverables?



Third party certification

Product data

Product data

Product data

Product data

Demo app

Technical Solution Guide  
- this is how the prototype works

Resolver Proof of Concept

Prototype implementation at  
different data sources

# Our very basic data model

<u>CONTENT:</u>	<u>GS1 WEB VOCABULARY NAME</u>
<b>GTIN*</b>	<b>gs1:gtin</b>
<b>Brand*</b>	<b>gs1:brandName</b>
Subbrand	gs1:subBrandName
<b>Brand Owner*</b>	<b>gs1:brandOwner</b>
<b>Product Name*</b>	<b>gs1:productName</b>
Size	gs1:descriptiveSize
Height	gs1:inPackageHeight
Width	gs1:inPackageWidth
Depth	gs1:inPackageDepth
Weight	gs1:grossWeight
Country	gs1:countryOfOriginStatement
<b>Product image*</b>	<b>gs1:referencedFileURL</b>
Certifications	gs1:packagingMarkedLabelAccreditation

For brand owners

- Dagab
- Ahlsell
- Mio

<u>CONTENT:</u>	<u>GS1 WEB VOCABULARY NAME</u>
Certification agency	gs1:certificationAgency
<b>License number*</b>	<b>gs1:certificationIdentification</b>
Licensee	gs1:certificationSubject
<b>Status (active/inactive)*</b>	<b>gs1:certificationStatus</b>

For certification companies

- Ecolabeling Sweden (Nordic SwanSVANEN)

# Technical References for ProPare

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## Standards used:

- GTIN (<https://www.gs1.org/standards/id-keys/gtin>)
- GS1 Digital Link uri syntax standard (<https://ref.gs1.org/standards/digital-link/uri-syntax/>)
- GS1 Digital Link link types and resolver standard (<https://ref.gs1.org/standards/digital-link/>)
- GS1 Web Vocabulary (<https://www.gs1.org/voc/>)
- JSON-LD (<https://www.w3.org/TR/json-ld/>)

## Project deliverable

- ProPare DPP Guide (<https://gs1.se/en/digital-product-passports/propare-digital-product-passport-solution-guide/>)



## Kontaktinformationen

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