

Herzlich Willkommen GS1 Excellence Days 2023

Driving sustainability with GS1

The Global Language of Business





2D-Datenträger als Basis für kostenoptimierte POS-Prozesse

Konsumgüter/Retail

Jonas Batt Head of Industry Engagement Consumer Goods/Retail



The Global Language of Business





GS1 Global Ambition 2027

GS1 Global hat anlässlich der Generalversammlung beschlossen, dass ab dem Jahr 2027 folgende Grundsätze gelten sollen (AMBITION FOR 2027):



https://www.gs1.org/sites/default/files/2022-02/2d-barcodes-at-retail-pos-getting-started-guide-feb-22.pdf

Alle sind gefordert: Handel & Industrie & Solution Partner



Warum ist eine Umstellung von EAN-13 auf 2D Datenträger erforderlich?

- Die KonsumentInnen erwarten einen schnellen Zugang zu Produktinformationen
- Produktverpackungen enthalten zu viele Symbole
- Marken und Einzelhändler können mehr Daten nutzen, um neue geschäftliche Herausforderungen zu lösen
- EAN/UPC schränkt die Anwendungsfälle ein, da diese Datenträger keine zusätzlichen Daten aufnehmen können
- 2D-Symbole können helfen, all dies zu erreichen





Anwendungsmöglichkeiten für 2D

Bestandesmanagement

- FIFO beibehalten
- Inventargenauigkeit
- Einsicht in Verfügbarkeit und Standort
- Verschwendung vermeiden, Frische gewährleisten

Rückverfolgbarkeit

- Produkt-Authentifizierung
- Informationen zur Beschaffung von
- InhaltsstoffenSichtbarkeit der Lieferkette
- Vertrauen der Verbraucher

Sicherheit

- Verhinderung des Verkaufs von abgelaufenen oder zurückgerufenen Produkten
- Bekämpfung von Fälschungen
- Markenintegrität

Nachhaltigkeit



M-

- Informationen zum Recycling
- Ermöglicht Kreislaufwirtschaft
- Abfallvermeidung
- Vom Erzeuger zum Verbraucher



Konsumenteninteraktion

- Zugang zu markenautorisierten Informationen
- Werbeaktionen
- Rezepte
- Gelegenheiten zur Interaktion mit der Marke

Verpackungsoptimierung



- Marketingziele auf der Packung
 - Einhaltung gesetzlicher
 - Vorschriften
- Verbessertes Verbrauchererlebnis



UN Entwicklungsziel







Connecting your products to a digital world

through a simple smartphone scan

Kerry Morrison Head of Retail GS1 UK







2D barcodes – introducing a revolution in retail

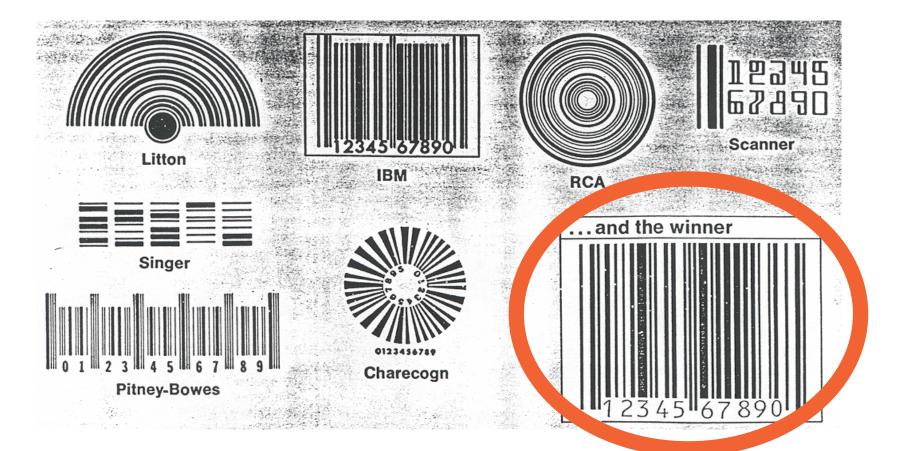
Kerry Morrison – Head of Retail

GS1 UK

01 June 2023

Introducing the Barcode







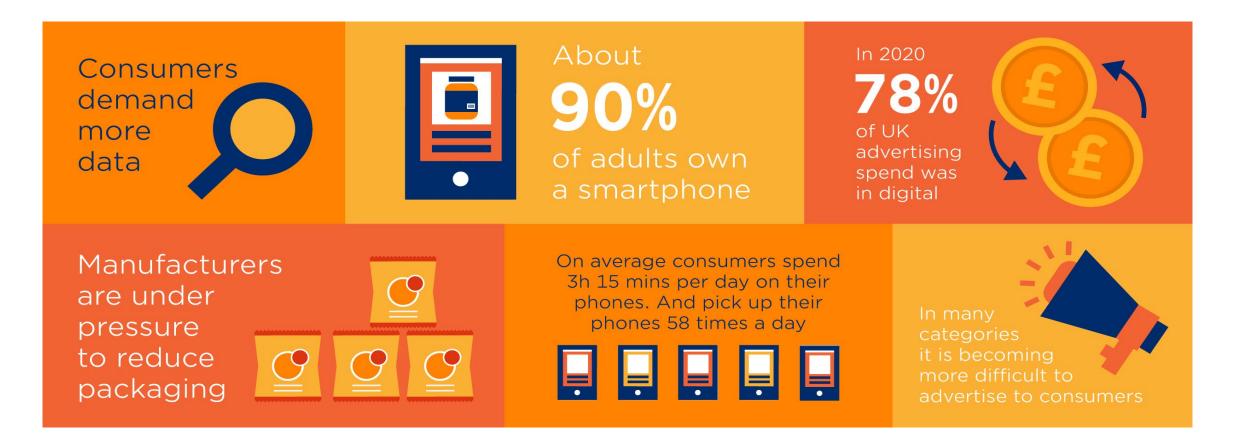
Solving industry challenges

In 1973 GS1 created the barcode to enable businesses to trade and grow. Today this is responsible for driving trillions of pounds worth of sales through the economy daily.





Industry trends





Industry's ambition

Top UK retail businesses have a clear ambition of what they want to talk to their consumers about.





Growing legislative requirements





Future of retail

At GS1 UK we are unlocking the future of retail by combining two of the greatest inventions of all time **- the internet and the barcode**.





2D barcodes will transform the world of retail





What does this look like?





What does this mean for you?

This is an opportunity for brands to:

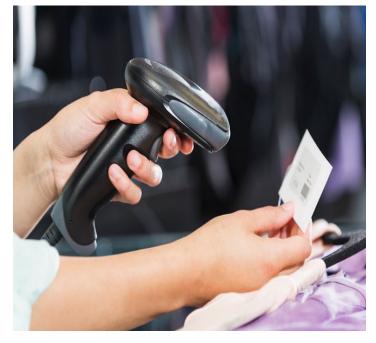
- **Talk directly to their consumers** through their product's packaging
- Share key information **required by legislation**
- Enhance customer engagement through enriched digital content
- Power **sustainability agenda**
- Meet diverse business KPIs
- Transform digital strategy
- Drive revenue





One code







Consumer

Point of sale

Supply/stock



QR codes with GS1 standards will enable and end to end digital ecosystem

Supply			Purchase		Post Purchase		
			Post 2027		2023 - c	ongoing	
FransparencyFreese magement	Improved packaging	Safety (eg. Recall/ dated stock)	VisitConsumer scans 2D at till	Image: constraint of the second sec	Fransforms digital strategy	Powers sustainability	Enhances customer engagement

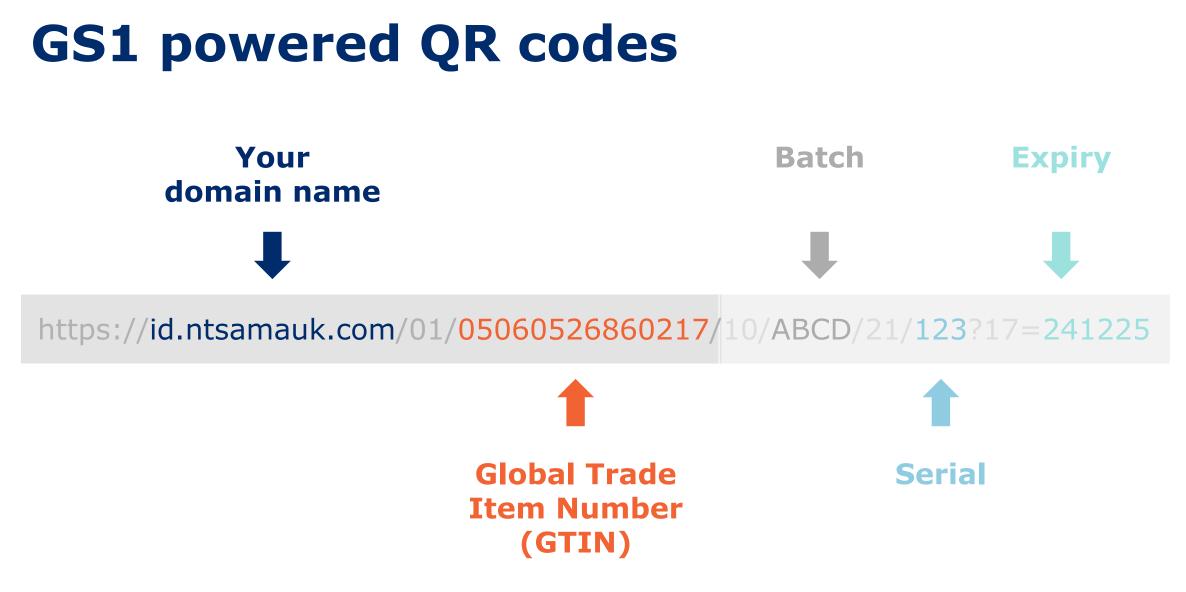


How does it work?



Batch/lot: ABCD Serial: 123 Expiry: 25-12-2024



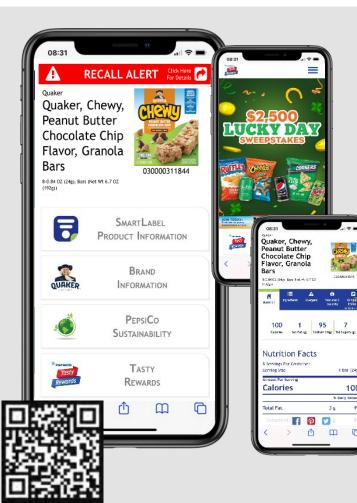












1.4

23238651124

2

1 Bar (24g)

S Deritz Value

38 49

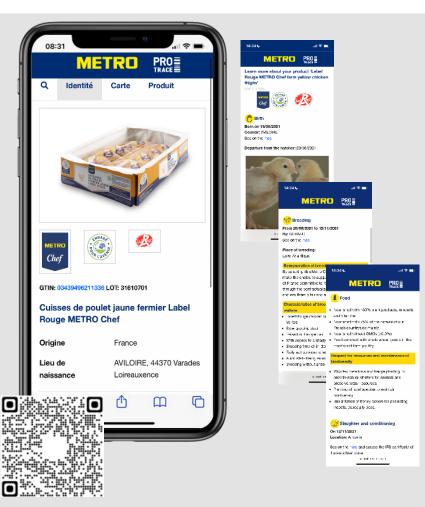
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D

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Feet and 1 See 18a Company President





















Connecting with consumers

This will enable every product to become its own media channel **giving manufacturers the power to connect directly with their consumers**





You already have





How can brands do this today?



Align on priorities

What business objectives do you want to achieve?



Select focus area

Where do you want

to start within your

product portfolio?





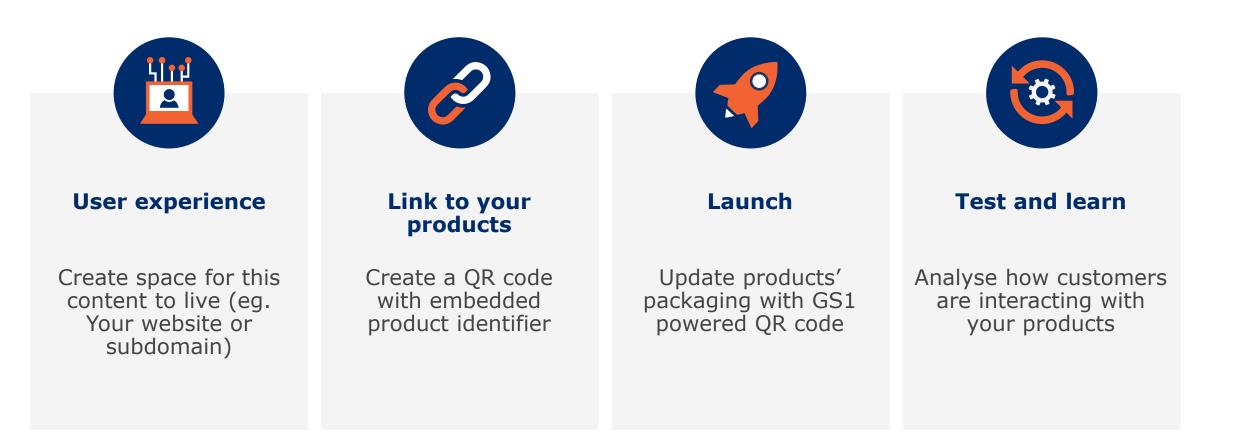
Identify messages

What do you want to talk to your consumers about? **Evaluate collateral**

Does this content already exist?



How can brands do this today?





Members' ambitions

What do you see as being the main opportunities for your business around implementing connect to consumer using QR codes on pack?

Visibility of product data and **access to information** that is relevant to individuals. Customer facing: Giving customers **access to more information** (e.g. packaging materials recycling information, ingredients, nutrition, provenance) and **rich content**. **Promotions**.

Operational: more product information for traceability and dynamic Inventory management.

Sainsbury's

Recipes, provenance, sustainability, ingredients & nutritional info. **Promotions** & marketing content.



Packaging material & recycling information. Carbon footprint & **sustainability story**.

Wellbeing & additional health information. Product recipes & ingredient provenance. Promotions & coupons.

Brand **loyalty**. Increased **sales**. Building consumer **trust**. Supply chain **savings**.

Room to **shout about your products in many ways**. Allows consumer to **find relevant information with ease.** Provenance & sustainability info for the conscious consumer. **Flexible and adaptable** information that **can be targeted**

(e.g. based on geo-location).





Members' ambitions

How does implementing connect to consumer using QR codes on pack fit in with current business strategy?

Ability to talk to consumers about sustainability, recipe inspiration and other marketing info related to new products – we can never get enough on physical packs. Quorn

HEINEKEN

We are already successfully using OR codes to connect with consumers on freshly made items in store.

This is successful in talking to consumers around food safety, allergens, provenance and quality. **Opportunities around item traceability** and stock handling decisions that comes from using 2D barcodes on pack.

Continuing post purchase conversations and education with customers around marketing, sustainability, ingredients, product quality and provenance.



Reaching consumers around sustainability alongside on pack offers and promotions. Inclusivity and accessibility for **shoppers** is also key area here.

How can we use digital solutions to help overcome any visual impairments. DIAGEO Talking about sustainability and perfect serve are some of the most important areas for us. **Getting the right** content, keeping the content interesting and engaging for shoppers is priority. We need to understand how to keep content fresh. In an ideal idea world we could use this to create tailored content for consumers.





Speak with the team today to get started



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Steve Richards M: +44 (0) 7802 575 667 **E:** steve.richards@gs1uk.org

Or visit our website to learn more





The Case for shelf management with freshness sensitivity

David Kat Bus / Dev wasteless

The Global Language of Business



wasteless

Insights that repair the food value chain

Food Waste is costing us dearly



€10 T

Total value food system

€12 T Food's cost to the planet^{*}

€4 T ca. 40% of food is wasted^{**}

* Land use Coalition, Growing Better exhibit 8, page 38 and box 4 on the same page ** FAO



Food Waste causes 10% of all Carbon Emissions



A fortune to unlock

On retail's shelves



€€ Waste €€

2.5% - 4%

Waste loss in annual sales

€€ Markdowns €€

1.5% - 2.5%

Markdowns cost in annual sales



Markdowns. ... of up to 60%









Arbitrary markdowns

\$

\$

Based on emotions and rules developed in the 1970s

Too deep, too late

Last minute large-discounts have high cost and are badly perceived

Single period markdowns

Having a single markdown point is a loss of potential

Retails Sell More & Waste Less with data-driven AI based markdowns

Globally protected by IP rights





Eliminating waste in salads

Eliminating waste in packed meals

Eliminating waste in meat & poultry



Cross functional values

CFO

Make money

By selling a products before they become surplus food **and slashing fresh** waste by +50%

High ROI

Wasteless charges SAAS per SKU/ Store/Month. With this model, supermarkets realize ROI from the first month.

Reduction of markdown cost

Supermarkets can **reduce markdown costs by 50%**, optimizing their markdown decisions with Al.

CIO

Higher data accuracy and usability

Using Wasteless results in accurate data sets that lead to better traceability and performance. Within our data sets; **waste** data, **stockout**, and possible **consumer-specific pricing sensitivity** – data's holly grail. All data available through dashboards and periodic reports

COO

匬

Quick scale-up from demo to chain level

Wasteless' system is the only system that can **scale** at a flick of a switch making it the only system that is both **fully automated** and can work while reducing the **labor involvement** very low

MRO – Scope 3 – SBT i

Green impact

With Wasteless' visibility in the supermarket, the Green image of the retailer is measurably be improved.



High customer engagement and loyalty

There's an immediate reward for the customer, as we target everyone in the supermarket. This results in a long-lasting brand loyalty.

CSO

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Reduce food waste

With wasteless you can **take an action** and lead consumers to make a strong positive impact on the environment

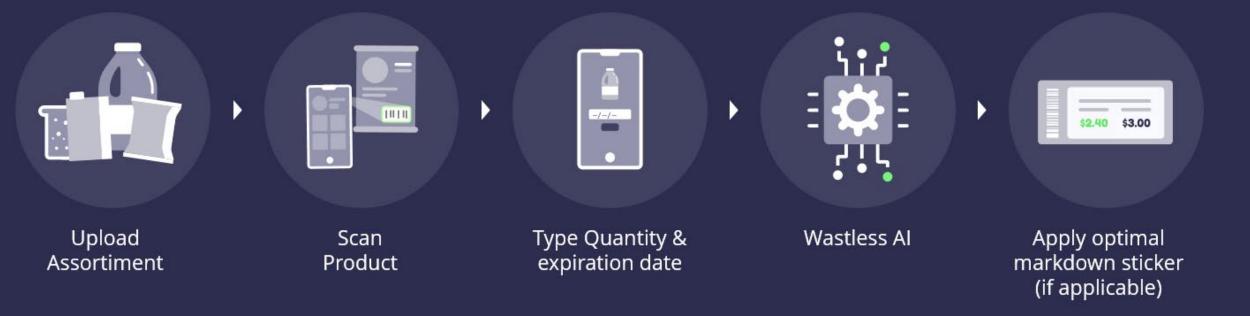
Connecting Digital to Physical

easy to proof the

2D Business Case



The elements are already available





Integration-free to prove business case



STORE is protected US IP laws

Wasteless Store





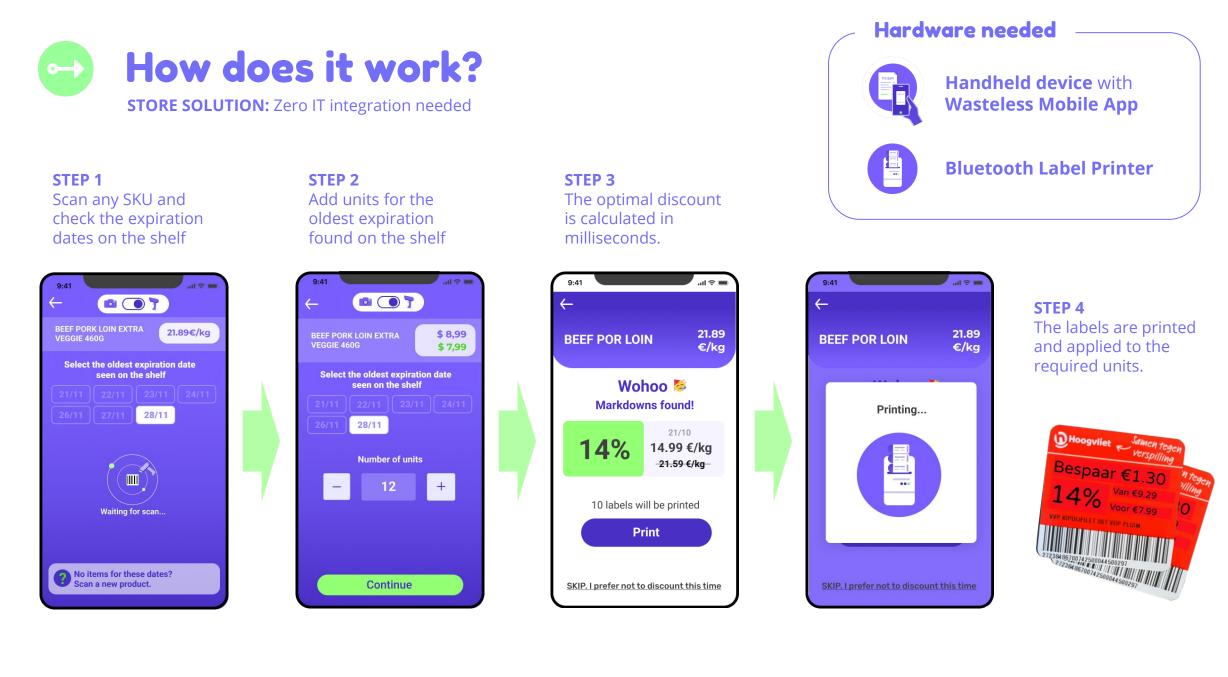




BESPAAR! Nú voor €1.39 Lekker vers, coole korting

JUMBO

supermarkten



Proof Optimal Markdown



1 week to implement and setup the Alpowered dynamic pricing



<mark>3 stores</mark> (and 3 mirror stores)



Up-to 1,000 SKUs covered Fresh meat and Fish



4 Months to fine tune business case



2 staff per store trained to use the solution in store.



Implemented In-store Marketing displays

Connecting Digital to Physical

easy to proof the

2D Business Case



Initial Project Goals

Goal 1

Reduce food waste % by anticipating waste events. This gives customers better deals, fresher products and allows them to **help the environment.**



Goal 2 Hoogvliet originally wanted to rule out that Wasteless would reduce sales and revenues



Targets & Results



This is the average **change** between Wasteless stores and Control Stores. This delta is the same when calculating it with Hoogvliet and with Wasteless approach.

Goal 2 **Target 2: Protect Sales & Margins** +10.4 pp Margin Variation Wasteless stores showed +21.70% margin increase, compared to +11.21% in control stores. **Revenue increase was 30%** compared to control stores (14% increase vs. 11% increase in CS)

Then scale it











Wasteless Enterprise

An Al-driven markdown optimization engine for fresh food to **increase revenues** and **reduce shrinkage**

Date enabled Barcode



Fresh Products are equipped with date enabled barcodes.

Barcodes are applied in-store OR at the production line

Pricing Engine



Wasteless calculates the optimal SKU markdown

This is done continuously, in real-time

PoS Integration



Sales data is retrieved from the PoS

Retrieving dates and applying the price

ESL / labels / App



Shelf labels of **any kind** reflects **smart markdowns**

The solution fits perfectly to online & Food Delivery







FULLY AUTOMATED / FULL POTENTIAL

DATA ENABLED BARCODES ON PRODUCTS ONE-TIME HISTORICAL DATA (SELL-OUT, SELL-IN, WASTE, MARGINS)

ELECTRONIC SHELF LABELS (ESL) DISCOUNTS ARE UPDATED AND SHOWN IN REAL TIME

POS CONNECTION WITH WASTELESS PRICES CHECKOUT AUTOMATICALLY APPLIES THE MARKDOWN BASED ON THE SCANNED ITEM

INCOMING PRODUCTS DATA DAILY FEED OF INCOMING PRODUCTS W/EXPIRATION DATES

POS SELLOUT DATA DAILY FEED OF UNITS AND PRICES SOLD AT CHECKOUT

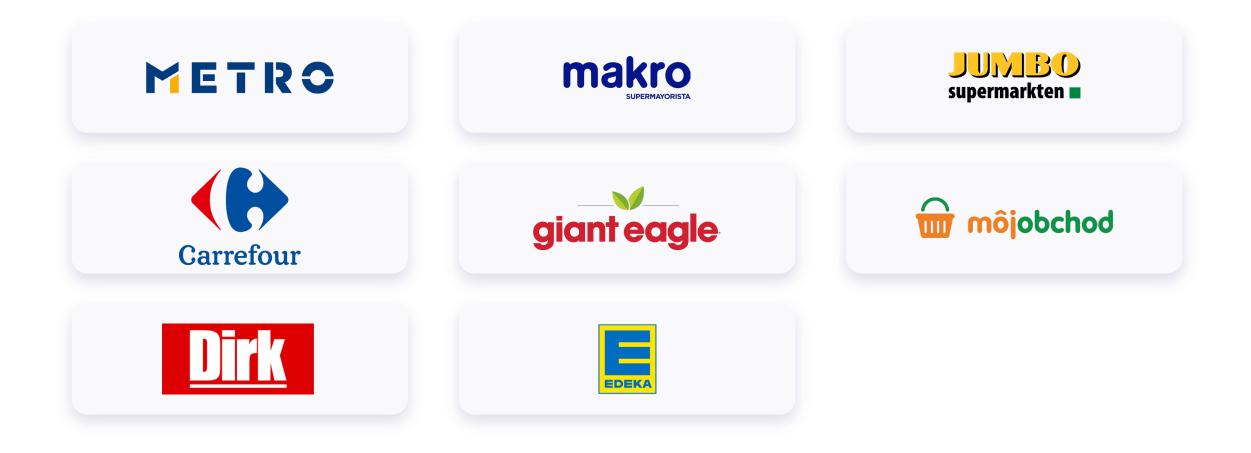
DAILY WASTE DATA DAILY FEED OF WASTE RECORDED (UNITS TRACKED AS WASTE)

HISTORICAL DATA ONE-TIME HISTORICAL DATA (SELL-OUT, SELL-IN, WASTE, MARGINS)

DEPLOYMENT



Optimize the set of the set of



prove VALUE



%

First in ACH

Quick start for rapid results and scaling

Operations

Reduce staff time, increasing quality, freshness, visibility of out-of-date items and precise ordering

Production WHEN and WHAT to produce

Sales

PoS recognizing the item and freshness, applying discounts in real-time with intra-day alterations if needed

Customer value

Understanding shopping preferences, choices, and sensitivity towards freshness, we help offering consumers what they want and create long lasting loyalty





wasteless

Let insights make a positive impact - fast

David Kat | Bus Dev

david@wasteless.com wasteless.com



David Kat VP Bus Dev at Wasteless. Food100 Innovator. Drawdown evangelist. Public...





Q: What type of assortment is covered?

Q: How many SKUs are covered by the solution?

Q: How long it takes to integrate?

Q: Can the solution work without ESL systems?

Q: Can consumers "learn & hack" the solution?

Q: Do I need to re-tag food items?

Q: How do you price the solution?

Q: What is the expected ROI?

A: Packed Fresh: Meat, Poultry, Meals, Salads, F&V

A: Typically 800-1200 SKUs

A: Usually 4-6 weeks from kick-off to go-live

A: Definitely yes

A: No, that is impossible

A: No, that is not needed

A: We charge Per SKU/Store/Month

A: Depends on the covered SKUs, usually < 2 Month

wasteless



Focus: Dynamic markdown optimization to increase revenues and reduce food waste

<u>Technology</u>: Deep ML

Founders: Oded Omer (CEO), Yossi Regev (CTO)

Subsidiaries: Wasteless Ltd (TLV) | Wasteless Inc (NYC) | Wasteless BV (Amsterdam)

Funding: \$11M

Grants: Israel Innovation Authorities (\$1.5M)

IP: 6 patents and trademarks granted

<u>Prizes</u>: EU Horizon Seal of Excellence (Twice), XTC Global 1st place in food-tech & agritech, AI Awards



Fragen an unsere ExpertInnen



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2D bis 2027 am Point-of-Sale: Unternehmen bekennen sich zur Absichtserklärung Schweiz





Part of the Carlsberg Group











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SPAR (

- Besuchen Sie draussen die Stände der Solution Partner oder
- Melden Sie sich an zum Webinar vom 02.11.23 «Umsetzung von 2D am POS» mit



Bei Fragen zum Thema stehe ich und die Standards Experten von GS1 Switzerland sehr gerne zur Verfügung.





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Ihr Kontakt

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2D Webinar 2. November 2023, online



Solution Partner

Solution Partner Event

31. August 2023 im Westhive, Zürich





Vielen Dank für Ihre Aufmerksamkeit!

