

2D in Retail Advisory Group Advancing practical implementations

Jenny Keegan – Woolworths, Francesco Oliveri, Perfection Fresh Australia

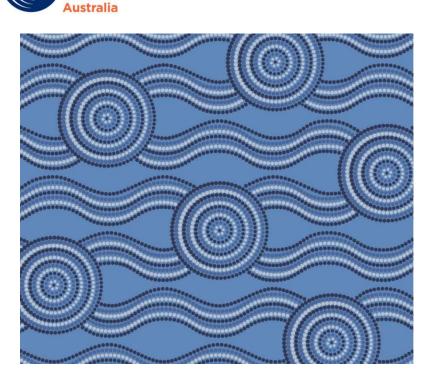
Meeting #15, 24th July 2024

Acknowledgement of our country



Advancing practical implementations

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GS1

We acknowledge the traditional custodians of the lands on which we meet today, and pay our respects to their Elders past, present and emerging.

We extend that respect to Aboriginal and Torres Strait Islander peoples joining us today.

GS1 Australia Competition Law Caution

2DBarcodes RETAIL ADVISORY GROUP

Advancing practical implementations

GS1 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.

The full Australia caution is available via the link below, if you would like to read it in its entirety: <u>http://www.gs1.org/gs1-competition-law-caution</u>



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Meeting Etiquette

2DBarcodes Advancing practical implementations

Introduce Yourself When asking a question	Be considerate Silence phones Keep comments concise
Be collaborative Ask questions Be open to other views	Be professional Speak on company's behalf



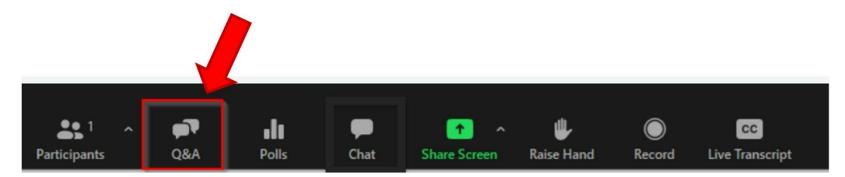
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Questions

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Please use the Q&A button in the bar at the bottom of your screen to submit questions. Chat function is disabled.





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Actions from previous meeting



WAITING ON A RESPONSE FROM GS1 KOREA

- What is the rejection rate for these bottles which have the QR Code printed on the bottle cap?
- Any feedback from Korean retailers who are scanning these bottles at POS?



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Global Update

- 2D in Retail Implementation guideline
- Work Request for 2D use in General Distribution
- Global Call-to-Action and Retailer Update

Local Update

- New 2D Team Members
- 2D Technical Working Group Update
- Supplier Implementation One Harvest
- Retailer Implementation

General Business

Next Meeting Date – Wednesday 27th November

50th Scanniversary of the Barcode





GS1 Australia 50 Year Campaign Sizzle Reel



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Only

When all retail point-of-sale systems will aim to scan 2D Barcodes, worldwide.







The 2D Barcode Options for Retail Products

GS1 DataMatrix with GS1 Element String



Best for those that need more data, but are not enabling a consumer experience

QR Code with GS1 Digital Link URI



Best for those that are enabling a consumer experience

Data Matrix with GS1 Digital Link URI



Best for those that are enabling a consumer experience, but cannot fit a QR Code on-pack



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Key Points on Barcode Options





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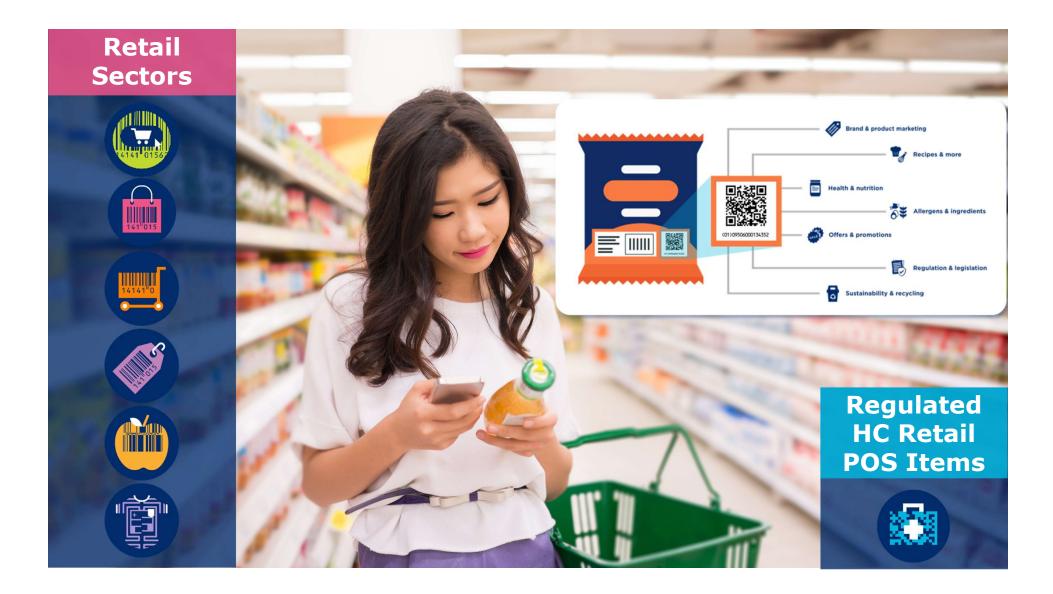
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2D in Retail Implementation Guideline

Steven Keddie – GS1 Global Office Aruna Ravikumar – GS1 Australia 4930



Mission-specific Working Group: 2D in Retail

Scope

Develop a GS1 standards-based approach on how 2D barcodes* will function in open global retail supply chains alongside today's linear barcodes, addressing all user needs

- * GS1 DataMatrix
- * QR Codes with GS1 Digital Link URI
- * Data Matrix with GS1 Digital Link URI







Mission-specific Working Group: 2D in Retail

MSWG began January 2022

- 1. Business requirements
- 2. Industry Agreements for
 - a. 2D barcodes... their conformance requirements... data structures
 - b. HRI
 - c. Multiple barcodes
 - d. Barcode placement
- 3. 2D in Retail Implementation Guideline





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100 industry members and 45 MO countries (207 total in MSWG)



How to use the guideline with stakeholders





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Global Call-to-Action

Andrew Steele – GS1 Australia

A push by the world's largest brands is underway to migrate to GS1 Powered QR codes under the **Consumer Goods Forum**



Ion R Moeller Chairman of the Board, President and Chief Executive Officer

October 23, 2023

Product Data Coalition - Transition to 2D Barcodes with GS1 Digital Link CGF Board of Directors

As shared in the April Coalition Impact Session and June Board meeting, enabling a successful industry transition to 2D barcodes on our product packages has become a primary focus of the Product Data Coalition The purpose of this letter is to share why this transition is critical for our industry, explain the benefits, and importantly, help you understand the role you play to ensure its success.

Background

In the early 1970s, retailers and manufacturers worked together to adopt the Global Trade Item Number (GTIN, also known as EAV or UPC), encoded into a linear 1-dimensional barcode as the standard way to identify products globally. The barcode used on bady a packaging is great for earbiling processes like scanning at checkout, category management, fulfillment in DCs, and demand and replenishment planning. However, it doesn't have the capacity to support the future needs of our industry.

Today, consumers demand more information about the products they're purchasing, regulators require the disclosure of more information to consumers - ingredients, nutrition, safety, environmental sustainability, etc. uaccourse of inder interaction to occessing equations, nationality, service and there is an origing need to more effectively track and frace products through the supplication provides in the standard service and there is an another service. As a result, a proliferation of new barcoster is energing. For example, brands are adding to the service of the service

We can resolve this with the 2-dimensional barcode with GS1 standards inside - a single bar code that has the power to provide all the information consumers need and desire, improve traceability through the supply chain, and scans at checkout.

Next generation barcodes: 2D Codes powered by GS1 Digital Link

2D barcodes are far superior to 1D barcodes due to their capacity to hold significantly more data and their resiliency to damage. They also provide a better consumer experience. When a 2D barcode is encoded based on the open GS1 Digital Link standard, it enables the code to be scanned by a smartphone, allowing consumers to be directed to a brand retailer web page for more information about the product as well as be scanned at thekout. Brand owners and retailers can also choose to encode additional data in the 2D barcode product expiry date, lot number, serial number, etc. – to support supply chain optimization. This isn't possible with today's 1D barcode at such a granular level.

The activation of 2D barcodes will happen in phases as there will be some technological investment and process change required. For example, products in the perimeter of the store that have real-time labeling processes will be able to encode additional data like expiration date into the 2D barcode whereas center store products that primarily use pre-printed packaging labels will require new manufacturing line technology to print these codes with expiration date included.

The Procter & Gamble Company One Procter & Gamble Plaza, Cincinnati, OH 45202



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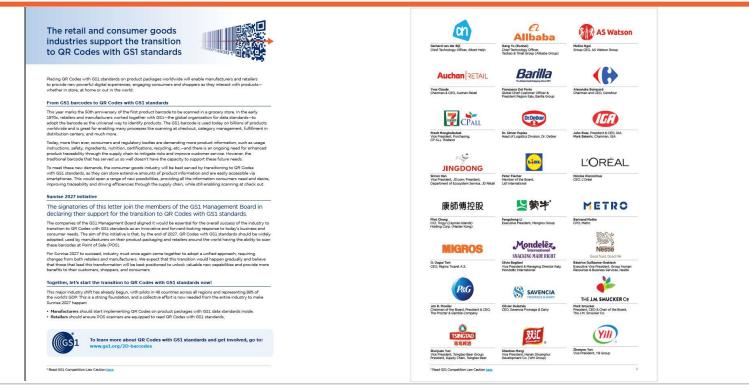


"Enabling a successful industry transition to 2D barcodes on our product packages has become a primary focus of the CGF Product Data Coalition"

Jon R. Moeller

Chairman of the Board, President and Chief Executive Officer Procter & Gamble

Global Call-to-Action for the Transition to QR Codes with GS1 Standards





Link to Joint Statement

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Global Retailer Update

Andrew Steele – GS1 Australia

Retailers progressing with 2D





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Tesco to pilot GS1 Powered QR Codes



We are a leading multinational retailer, with more than 330,000 colleagues and have over 2,800 stores





We now have 7 businesses and operate in the UK, ROI, Czech Republic, Hungary & Slovakia

"We know our customers want the opportunity to access detailed product information instantly via their smartphone and we are also always looking for solutions for reducing waste and tracking products more effectively throughout our supply chain.

"QR codes powered by GS1 will help us meet these challenges and we are already taking steps to prepare for the transition." – **Matt Rhind, Supply Chain & Development Director**



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US Retailer Announcements









"The potential 2D barcodes have to provide so much important product information will continue to help retailers, manufacturers and consumers." - **Mike Stigers, President**

"The shift to 2D barcodes will be key to educating consumers in store as they consider products that best meet the needs of their families,"

"Industry coming together to make this transition while following barcode placement standards will be the gateway to information our shoppers increasingly want at the point of decision." - **Dave Bornmann, SVP**

"In addition to the shopper engagement opportunities that 2D barcodes provide, these data-rich QR codes will also better support our inventory management operations. As an early adopter, we're prioritizing this industry transition and are pressure-testing our capabilities to ensure readiness." - **Dave DeLaus, SVP & CIO**

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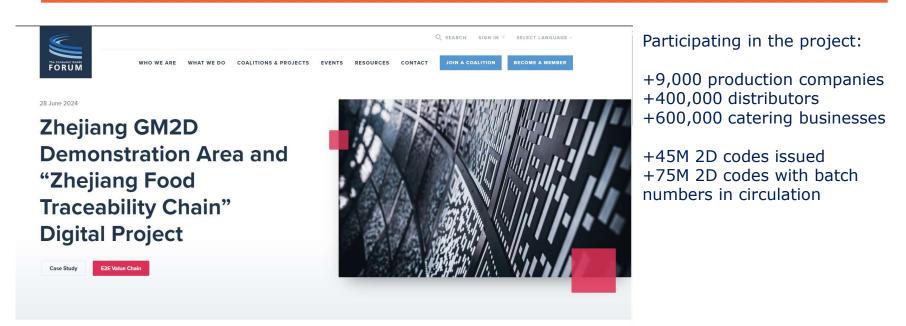


Global 2D Case Study

Andrew Steele – GS1 Australia

China – Case Study







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Application Cases – Food & Beverage



COMPANY NAME

TASTE FOOD NINGBO CO., LTD.

DUC DE FORMONS VIN ROUGE

HIGHLIGHTS

Regulatory personnel can achieve comprehensive risk alert and control for imported goods by scanning the code and instantly querying information about foreign wine estates, production countries, loading ports, and destination unloading ports.

Consumers can directly access essential information, logistics details, and customs declaration information for imported goods by scanning the code. This facilitates effective authentication of product authenticity, enhancing consumer trust in the quality and brand awareness of imported goods.





• Zhejiang Meilijian Dairy Co.

PRODUCT NAME Meilijian Xihu Brand Rooftop Double Probiotic Yogurt

HIGHLIGHTS

Through GM2D "One Code for one item" technology, achieve secure anti-counterfeiting traceability for each bottle of yoghourt, enhance internal ERP data exchange efficiency, and reduce management costs.

Consumers can directly watch real-time dynamic monitoring videos, including the status of the dairy farm cows, factory processing scenes, and warehouse displays, by scanning the code. This ensures a truly reassuring and trustworthy purchase for consumers.



(01)06933396800500

COMPANY NAME

Jinhua Weibang Food Co. Ltd.

PRODUCT NAME

Jinhua Ham (Split Pack)

HIGHLIGHTS

Consumers can directly access ham recipes and cooking methods by scanning the code, quickly mastering the essence of ham cooking.

The company showcases brand introductions and honours through 2D codes to expand corporate publicity, thereby enhancing brand image. Simultaneously, it embeds online purchase links for ham, facilitating consumers for repeat purchases and increasing ham repurchase rates.

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Application Cases – Non-Food

COMPANY NAME

PRODUCT NAME

HIGHLIGHTS

Intelligence Play Fun Set



(01)06976057590891

(01)0695497290086



COMPANY NAME

Zhejiang Yueyun Piano Co.

PRODUCT NAME

Yueyun Upright Piano

HIGHLIGHTS

Consumers can scan the code to retrieve relevant information about the piano and, based on user manuals, maintenance instructions, and instructional videos, independently perform maintenance operations and more on the piano.

The UI interface includes information on nationwide piano tuners, making it convenient for consumers to search for the nearest certified tuner. This provides consumers with professional and convenient piano tuning services.





COMPANY NAME

Zhejiang Shengshiyuanlin Technology Co.

PRODUCT NAME

Backpack electric sprayer

HIGHLIGHTS

Global consumers can enhance their consumer experience significantly by scanning the code to browse the company's domestic and international official website, accessing product quality test reports, and other information. This contributes to the increased competitiveness and credibility of the company and its products.

The company, through 2D codes, directly provides consumers with a feedback channel. legally safeguarding consumer rights.



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Zhejiang Beima Education Technology Co.

The company provides the quality inspection report

for this toy through 2D codes, enhancing consumer

buy with peace of mind, and children play safely.

concepts and electronic manuals into 2D codes,

making it convenient for consumers to access

information about how to play with the toy.

The company integrates product design

confidence in the purchase. This ensures that parents

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Work Request for 2D Barcodes on Cartons

Aruna Ravikumar – GS1 Australia

Work Request for 2D barcodes on cartons

This WR should give an opportunity to deep dive into this 'general distribution' environment topic focussing both on fixed measure and variable measure products :

- Explore if we need to develop transformative standards for this scanning environment too.
- Evaluate the extension of the new GS1 DL URI syntax for this scanning environment.

This WR excludes regulated healthcare and MRO subsections





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Local Update 2D New Team Members

Klaeri Schelhowe – 2D Lead GS1 NZ

- 14 years at Avery Dennison, Europe
- 4 years at NOVEXX Solutions, Germany
- Executive Director at the Trust Alliance NZ Inc.
- Focus on improving product identification and data interoperability across the value chain.



LinkedIn profile – see more:





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Emily Stow – 2D Program Manager GS1 Australia

- NEW 2D Program Manager role to support the Australian Retail Industry with 2D Barcode Awareness, Capability and Adoption in preparation for Ambition 2027
- 20 years of experience within the Retail Industry (general merchandise, grocery, hardware, apparel and footwear)
- 10 years of Project Management experience, focused on process improvement, business operations and information technology





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Local Update 2D Technical Working Group

Sue Schmid – GS1 Australia Richard Manaton - GS1 NZ

2D Technical Group Update

Opportunity to gather feedback as to what the requirement from GS1 is

Re-establish the group with the right structure to address the varied needs of different stakeholders involved





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Supplier Implementation

Saurabh Mahajan NPD Process Manager One Harvest

About One Harvest





- The roots of the Robson family connection with Australian produce extend as far back as the early 1930s, when Duncan Robson began trading fruit and vegetables at the Ipswich Markets in Queensland.
- Since then, the One Harvest family has grown to include four processing facilities that employ more than 1,000 people across Australia to process and supply our value-add produce to supermarkets and green grocers around the country.
- The One Harvest product repertoire includes prepacked salads, vegetables and fresh-cooked beetroot.



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2D code on Packaging - Supplier experience

• <u>Scope:</u>

• To add 2D codes on packaging replacing the GTIN barcodes, process by inline printing capability

• Advantages:

- In date traceability product life at shelf
- Consumer Education on ingredients
- Additional Recipe suggestion/ Usage
- Supply chain story to consumers
- Reduce on Artwork space for clean look.
- <u>Considerations:</u>
- Timeframe
- Inline printing capability
- Live 2D code generation





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Woolworths Update

Roberto Olivares

Recap of 2D Barcode @ Woolies in 2023

2D Barcodes to support Consumer Food Safety, Product Life and Reduction of Waste

Use-Case	Initiative	Update	Look Ahead
B Beef Sausages Souge Bausages Sausages Sausages Sausages Sausages Sausages Sausages Sausages	• Transition of Fresh articles to 2D Barcodes	 Transition all Own brand Meat range articles F&V: 36 Salad bag articles and 4 suppliers. Deli Service: ~230 articles 	 Woolworths Branded Fresh / Perishables: ~750 articles and ~70 suppliers
	• Cut F&V 2D Barcode labels	• Deployed 2D barcodes with Date and Time of Production on Cut F&V	
	Hot Food 2D Barcodes	• Deployed 2D Barcodes in Hot Food (Roast Chickens) to validate production time	
	• Prop Bakery 2D Barcode labels	• Deploying 2D Barcodes in Prop Bakery +370 articles with Expiry Date labels (Metro stores deployed)	• Deployment H1F25.
A survey	• Manned Registers upgrade	• Deployed Zebra MP7 scanner/scales high performance 2D capable scanners	



How we are working with our WFC suppliers

• WFC Supplier Event The Value of 2D Barcodes (March)



- WFC Technical Roadshows in Brisbane, Perth, Melbourne and Sydney (April)
- Supplier Capability Survey sent to all suppliers to understand their current capability and collect nomination for intent (June)
 - **55%** of respondents have capabilities to print 2D Barcodes
 - Setting up 1:1 sessions with **54%** of respondents who would like to find out more.
- **Transition Plan** development with Suppliers and any planned packaging artwork changes

Attention: All Own Brand suppliers to Woolworths Australia and New Zealand. Excluding Suppliers of Home Essentials

Dear Jayne Stewart,

At the Woolworths Food Company Retail (WFCR) Supplier Update in March, we communicated that as part of our ongoing commitment to innovation and efficiencies, we will continue transitioning to GS1 DataMatrix 2D Barcodes.

GS1 DataMatrix 2D Barcodes provide valuable information such as use-by and best-before dates, batch/lot ID, weight and price.

This means not only product identification but also product information is contained within the barcode, which is valuable for the purpose of:

- · Food Safety and Freshness Guarantee for our Customers
- Date Code management and waste reduction
- Traceability and targeted recalls/withdrawals

We have been using GS1 DataMatrix 2D Barcodes in Protein and Ready Meals with positive results, and we are now preparing to extend this implementation to additional categories.

To assist in our implementation planning, it would be appreciated if you could please complete the following Google Form by **COB June 14th**:

GS1 DataMatrix 2D Barcodes Supplier Feedback

Additional Resources and Information

- WFCR Supplier Update Presentation on <u>The Value of 2D Barcodes</u>
- Steps towards the Implementation, Essentials Checklist and Key
 Specifications

2D Barcodes FAQs

We understand this may require some adjustments on your end, and we are happy to provide any necessary technical guidance or support to ensure a smooth transition.

We've created <u>a dedicated page within the WFC Supplier Portal</u> to house all relevant information and updates regarding GS1 DataMatrix 2D Barcodes. This page will serve as a central resource for you to access the latest information. We encourage you to bookmark this page for future reference.

Thank you for your continued partnership and willingness to adapt with us. If you have any questions, please email us at <u>wfcprocessandsystems@</u> woolworths.com.au.



General Business

Q&A Next Meeting – Wednesday 27th November

