

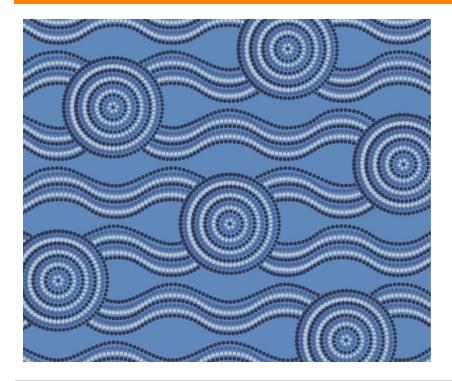
2D in Retail Advisory Group Advancing practical implementations

Jenny Keegan, Woolworths Mark Dingley, APPMA & Matthews

Meeting #12, August 2023

Welcome to country

2DBarcodes RETAIL ADVISORY GROUP Advancing practical implementations



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 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>



Meeting Etiquette

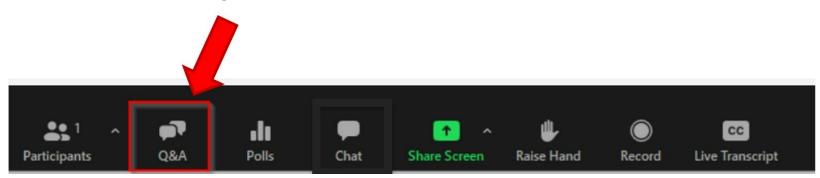
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Introduce Yourself When asking a question	Be considerate Silence phones Keep comments concise
Be collaborative Ask questions Be open to other views	Be professional Speak on company's behalf





Please use the Q&A button in the bar at the bottom of your screen to submit questions







Agenda

Welcome and Introductions

Global Update

Standards and Technical Update

Local Update

Marketing Update

General Business, Q&A

Previous Actions

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Online video series



- First episode developed What are 2D Barcodes? (will be showcased in today's meeting)
- Second and third episodes In development Key Drivers for 2D Barcodes
- Next episodes: Implementation at Woolworths, Types of 2D Barcodes, Barcode Placement





Global Update

Lori Schrop, GS1 Global Sue Schmid, GS1 Australia

Migration to 2D | FY 23/24 Goals **2DBarcodes** Advancing practical implementations

- **1. Sector focus:** Tailor 2D messaging and collateral to meet sector-specific needs
- 2. Training and Education: Expand access to technical and standards information for diverse audiences
- 3. **KPIs and metrics**: Track MOs doing pilots/implementations and their progress against the roadmap and explore how to monitor global adoption through Solution Provider insights
- Community engagement: Continue to support the MO Community and Industry with relevant collateral, tools and engagement opportunities for their 2D journey



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Brands recognize benefits of 2D

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How Industry is viewing 2D barcodes RETAIL ADVISORY GROUP Advancing practical implementations

Visibility of product
data and access to
information that is
relevant to individuals.

TESCO

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!

Unilever

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).



How Industry is viewing 2D barcodes

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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.

HEINEKEN

We are already successfully using QR 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.



Other Regional Initiatives

2DBarcodes Advanc

Advancing practical implementations

- Digital Product Passport (DPP) EU-wide circular economy initiative
 - Initial focus on battery recycling and upstream textile raw material traceability
 - While food-based products are out-of-scope for now, the initiative is driving EU interest and activity around 2D barcodes for delivering additional product and traceability information
- Alcoholic beverages labeling EU initiative
 - Improve consumer transparency on product information via 2D barcodes
 - <u>EU Implementation guide</u> available
- Deposit Return Schemes
 - Multiple MOs are either starting this work to include 2D, or are considering how to adapt existing 1D DRS implementations to using 2D barcodes









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Thank you



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Standards & Technical Considerations



Standards Update Phase 1 and Phase 2 Outcome Summary

Aruna Ravikumar, GS1 Australia



2D in Retail MSWG Deliverables

Develop Current State Application Standard Profiles

	Develop Future Conformance Application
,	Standard Profiles

Phase 2 Human Readable/Multiple Barcode Management/Barcode Placement

Develop Implementation Guideline(by March 2024)



Phase 1

Phase 3



Advancing practical

implementations

2DBarcodes

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In Progress

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GS1 DataMatrix



(01) 09506000149301 (10) AB-27 (17) 271231

QR Code with GS1 Digital Link

Data Matrix with GS1 Digital Link



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



The Global Language of Business

Symbol Specification Tables

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Symbol(s) specified	X-dimension mm (inches)			Minimum symbol height for given X mm (inches)		Quiet Zone	Minimum quality specification	
	Minimum	Target	Maximum	For minimum X-dimension	For target X- dimension	For maximum X- dimension	Surrounding Symbol	
GS1 DataMatrix (ECC 200) (*)	0.396 (0.0150")	0.495 (0.0195")	0.990 (0.0390")	Height is deter that is encoded	nined by X-dime	nsion and data	1X on all four sides	1.5/12/660
Data Matrix (GS1 Digital Link URI) (ECC 200) (*) (**)	0.396 (0.0150")	0.495 (0.0195")	0.990 (0.0390")	Height is determined by X-dimension and data that is encoded		1X on all four sides	1.5/12/660	
QR Code (GS1 Digital Link URI) (*) (**)	0.396 (0.0150")	0.495 (0.0195")	0.990 (0.0390″)	Height is deter that is encoded	mined by X-dime	nsion and data	4X on all four sides	1.5/12/660

Figure 5.12.3.1 3. Symbol specification table 1 addendum 2 for 2D barcodes

Symbol(s) specified	X-dimension mm (inches)			Minimum symbol height for given X mm (inches)		Quiet Zone	Minimum quality specification	
	Minimum	Target	Maximum	For minimum X-dimension	For target X- dimension	For maximum X-dimension	Surrounding Symbol	
GS1 DataMatrix (ECC 200) (*)	0.743 (0.0292)	0.990 (0.0390")	0.990 (0.0390″)	Height is determined by X-dimension and data that is encoded			1X on all four sides	1.5/20/660
Data Matrix (GS1 Digital Link URI) (ECC 200) (*) (**)	0.743 (0.0292)	0.990 (0.0390")	0.990 (0.0390")	Height is determined by X-dimension and data that is encoded			1X on all four sides	1.5/20/660
QR Code (GS1 Digital Link URI) (*) (**)	0.743 (0.0292)	0.990 (0.0390")	0.990 (0.0390")	Height is determined by X-dimension and data that is encoded		4X on all four sides	1.5/20/660	



Figure 5.12.3.3 2. Symbol specification table 3 addendum 1 for 2D barcodes

Application Standard Profile

2DBarcodes Adva

Advancing practical implementations

formance requirements	General retail products	0.
is of conformance requirements	Section 2.1.3.1 Fixed measure trade items scanned at retail POS using GTIN-12 or GTIN-13	Section
	Section 2.1.3.2 Fixed measure trade items scanned at retail POS using GTIN-12 carried by a UPC-E barcode	dication rules
	Section 2.1.3.3 Fixed measure trade items scanned at retail POS using GTIN-8	allocation, 14
	Section 2.1.3.6 Fixed measure fresh food trade items scanned at retail POS	2.2 ASP
ntifier choices	GTIN-8, GTIN-12, GTIN-13	Figure 9.22 ASP 1 cross-application rules Ser
datory attribute(s)	N/A	Figure 10 management of units of the second
ional attribute(s)	See section 3.2 for the list of GS1 Application Identifiers that may be used with the identifier	Figure 9.2.2 ASP 1 cross applicade Figure 9.2.2 ASP 1 cross applicade bescription performance of uniqueness and allocation, pules for GTN management of uniqueness and allocation, pules that apply when a company artial purchase, split, or pules that apply when a company artial purchase split of the data company pules that an acquisiton, marger, partial pules used to raining pules that an acquisiton interpreting of the data company and facilities that fail pules and fail corriers that fail
datory choices for a data ier	See section <u>3.2</u> for the list of GS1 Application Identifiers that may be used with the identifier EAN-8, EAN-13, UPC-A, UPC-E, GS1 DataBar Omnidirectional, GS1 Data Stacked Omnidirectional, GS1 DataBar Expanded, GS1 DataBar Expandet Stacked Any one of the mandatory data carriers or any one of the data carriers	ss-still Rules to sin a result of it. result of
ement on conformant data ers in the future	Any one of the mandatory data carriers or any one of the data carriers below will be conformant in the future once POS system support for these three 2D data carriers below reached pervasive adoption and becomes part of the global application standards.	all all read rings alw
	In the migration period, one of the data carriers below may be used in addition to the mandatory data carrier selected.	
	 GS1 DataMatrix 	a readable Rules 10 arcode plaste.
	 Data Matrix (GS1 Digital Link URI) 	105 1 at 1
	QR Code (GS1 Digital Link URI)	
ode size and quality ifications	Figure <u>5.12.3.1-1</u> Symbol specification table 1 contains barcode quality and size specifications for trade items scanned in general retail POS and not general distribution	La Du at
	Figure <u>5.12.3.1-3</u> Symbol specification table 1 addendum 2 for 2D barcodes	sym
datory choices for GS1 syntax	Plain, GS1 element string	
ement on conformant syntax e future	Any one of the mandatory GS1 syntaxes or the uncompressed form of GS1 Digital Link URI syntax SHALL be conformant in the future once the POS system support for interoperability between all three GS1 syntaxes has reached pervasive adoption and becomes part of the global application standards.	Business © GS1 Australia 2023

Reminder...



2027 2D at Retail POS



Transition

1D Mandatory plus optional 2D







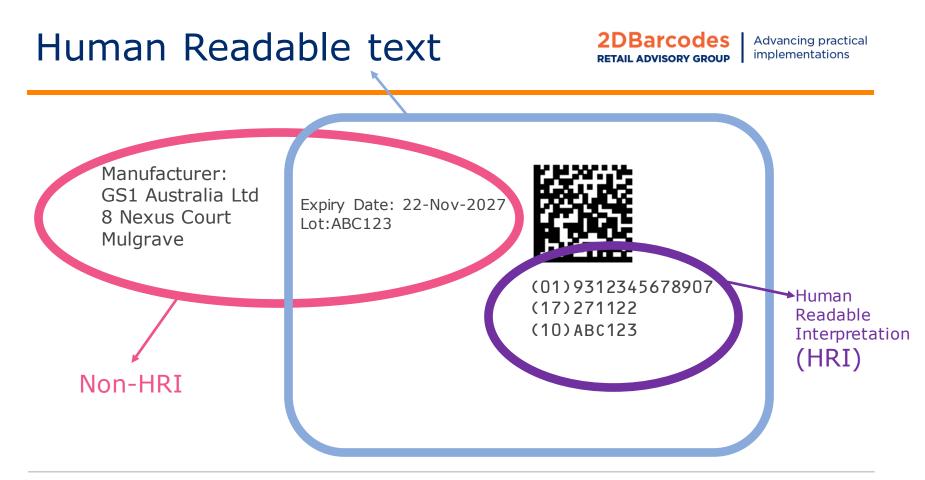
Future 1D or 2D



OR











GS1 DataMatrix (GS1 element string syntax)



QR Code (GS1 Digital Link URI syntax)



(01)09524810000339



Human Readable Interpretation Rules

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Point of Sale HRI is sufficient in the linear barcode

HRI for any additional consumer engagement (extended packaging) barcode encoding GS1 Digital Link URI SHALL be left to the discretion of the brand owner

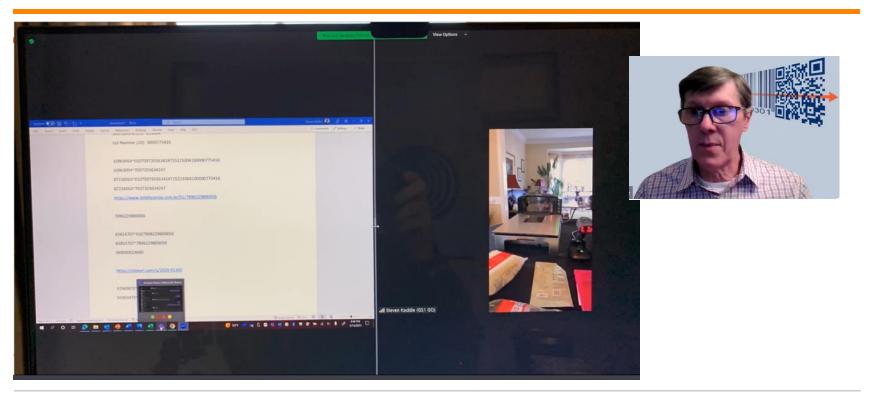




Previous Scanner Demo

2DBarcodes Advancing practical **RETAIL ADVISORY GROUP**

implementations





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Preferred Barcode Placement 2DBarcodes Advancing practical implementations

The entire 2D Barcode, including Quiet Zones, SHOULD be placed within a 50mm radius from the centre of the linear barcode.







Implementation Advice for Retailers

POS systems should be programmed;

- To scan both the barcodes BUT only process one set of desired data in the final transaction
- Scanning systems should only produce one BEEP when multiple barcodes are scanned from the same trade item



Reiteration – Basic Rules

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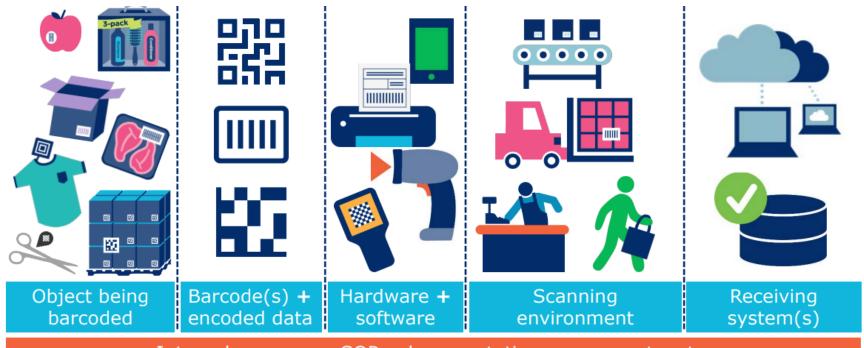


Linear Barcode GTIN = 2D Barcode GTIN



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Implementation considerations **2DBarcodes** Advancing practical implementations



Internal processes, SOPs, documentation, agreements, etc.



Preliminary Table of Contents **2DBarcodes** Advancing practical implementations

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- 1.2 Ambition for 2027.....
- 1.3 What you'll discover!

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- 2.2 Scope
- 2.3 About this document
 - 2.3.1 How do I use the document?.....

3 Terms, definitions, symbols and a

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- 3.2 Symbols and abbreviated terms......
 - 3.2.1 Symbols.....
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Solution Provider Update

Steven Keddie, GS1 Global

Group Focus

2D Transition Solutions

What is possible for printers?

2D Optimisation



What's possible for printers?

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- Printer capability discovery
- Current industrial printer technology basics & video examples
 - Continuous InkJet (CIJ)
 - Thermal InkJet (TIJ)
 - DoD Piezo...
 - o Laser
 - Thermal Transfer (labels and/or film)
 - Print and Apply
 - Digital Printers Piezo
- Newer printer technology & video examples
 - Super Piezo InkJet (SPI) Laser
 - VAReLase diode array laser with thermal reactive ink
 - BiDiLase array laser
- "What you need to know" to print quality 2Ds with today's printers. Will be used in Implementation guide for 2D in Retail

Solution Provider videos DataLase Domino Markem-Imaje Matthews Macsa ProMach (Greydon/WLS)



2D Printing

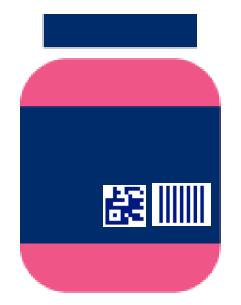
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RETAIL ADVISORY GROUP	implementations

Technology	Max Speed (m/min) (Size 18X18)	Image	
CIJ (Continuous Ink Jet)	~45m/min		
TIJ (Thermal Ink Jet)	~60m/min		
TTO (Thermal Transfer Overlay) Labels and Film	~24m/min		
Laser (CO ² 30W)	~60m/min		



Optimising 2D Barcodes

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- Optimising the size is important for:
 - Small trade items
 - Marketing
 - The transition period
 - Circularity and DPP
 - Clothing labels









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2D in Retail AIDC Lab Testing Results Steven Keddie, GS1 Global

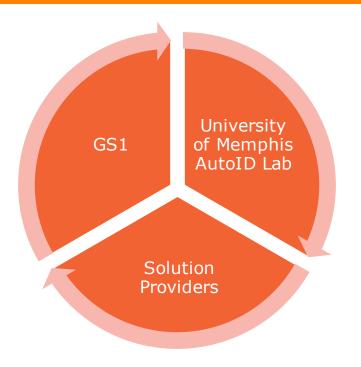
Testing Partnership

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Global experts have partnered with GS1 to create requirements, conduct testing, analyse results and provide recommendations to support industry's migration to 2D Barcodes



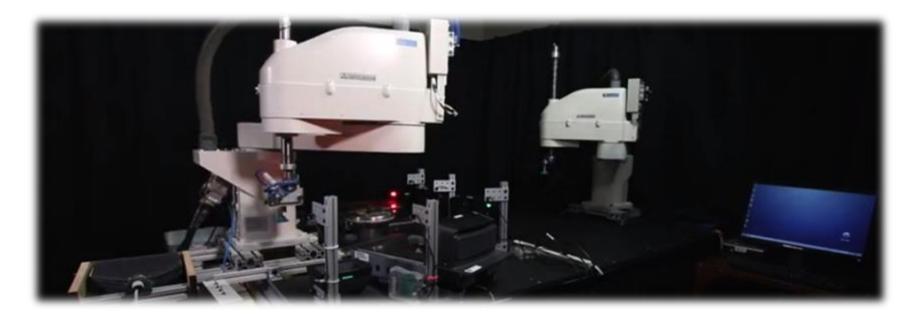
A new dimension in barcodes





Memphis & GS1 AIDC Lab Bi-optic scanners

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2D in Retail Test Scenarios

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Tier 1: Baseline controls

Establish a common baseline for barcodes with only GTIN <u>Tier 1 final report</u>

Tier 2: GTIN+

Understand how additional data affects scan performance and throughput <u>Tier 2 final report</u>

Tier 3.1: Multiple barcodes

Determine how the location of barcode combinations impact scanning <u>Tier 3 final report</u>



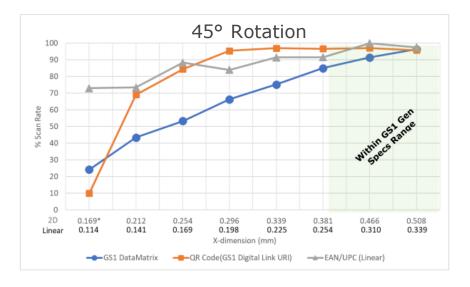
Tier 3.2, X-dimensions stress test

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Linear & 2D barcode scanning: reduced X-dimension stress test

Tier 3.2 Final Report

- Test results prove the range in the Symbol Specification Tables validated
- QR Codes fared better with challenging x-dim





Scanner Testing

Are presentation and hand scanner ready for 2D in Retail?

- Tests will follow the same process
 - Tier 1 (GTIN only)
 - □ Tier 2 (GTIN + attributes)
 - □ Tier 3 (Co-located barcodes)
- Presentation testing is underway
- Hand scanners wait for Tier 1 labels







Presentation Scanner

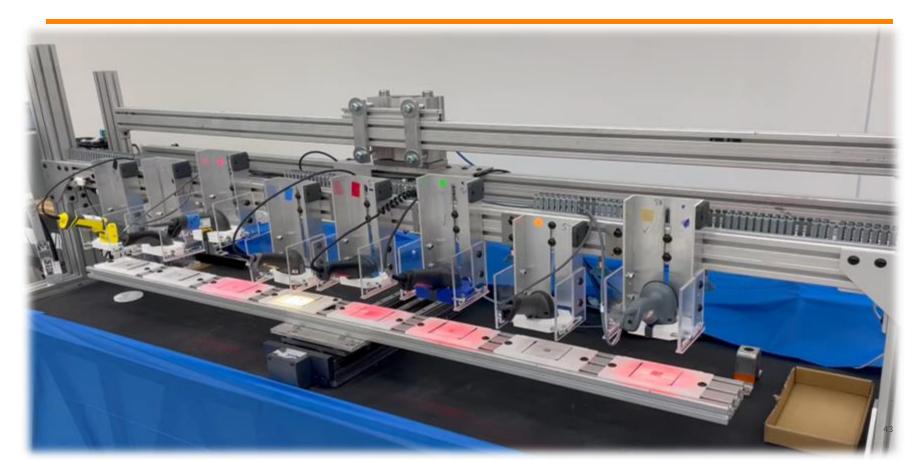
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Hand Scanner

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Industry Engagement Update

Andrew Steele, GS1 Australia

Industry Engagement

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Australia Retailers Association

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A global date of 2027 has been set

When all retailers should enable point-of-sale systems to scan web-enabled 2D Barcodes at point-of-sale. 1D barcodes, atthough fit for purpose for the past 50 years, are giving way to web-enabled 2D Barcodes as the global solution in retail. (SG1 is working with industry, unlocking the future of retail by combining two of the greatest inventions of all time - the internet and the Barcode.

This is GS1 Digital Link

Embed your product's GS1 Digital Link into a QR code, to generate a GS1 compliant web-enabled 2D Barcode that can enable consumer engagement and go "beep" at the point of sale.

Offering retail brands new possibilities through the power of personalisation. Products turn into a dynamic communication tool that captures attention, tells the brand story and establishes a personalised connection with consumers.



GS1 GTIN





www.yourwebsite.com.au/01/9312345678907

Opportunity to collaborate

Retailers in Australia, and around the world, are already embracing 2D Barcodes, with Woolworths scanning over 9 million 2D Barcodes at point of sale every week.

However, a 2023 survey by GS1 Australia revealed 85% of retail industry stakeholders are not aware that by 2027 all retailers will be able to scan web-enabled 2D Barcodes at point-ofsale.

GS1 Australia requests the assistance of the Australian Retailers Association Tech & Innovation Committee, to provide Australian retailers with thought leadership and guidance regarding the transformation to 2D Barcodes.

CONTACT US

Andrew Steele Director Retail Food & Beverage M +61 417 377 374 E andrew.steele@gs1au.org

This could potentially include, but not limited to:

- Webinars for ARA members on the 2D migration
- Techn & Innovation Committee white papers on the subject
- Presentations by GS1 Australia at ARA events
- Assisting ARA members with 2D Readiness Assessments
- · Partnering with retailers and solution providers for pilots

GS1 Australia welcome your support as a trusted partner of industry. We look forward to working with you and will be in contact to facilitate further discussions.

Michael Davis Director Retail General Merchandise & Apparel M +61 423 884 455 E michael.davis@gs1au.org



Liquor Sector Update

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drinks association Supply chain forum

Intelligent Packaging through 2D Barcodes





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Use By Date

1st January 2024

(01)GTIN + (17)Use By Date





(01)GTIN + (22)CPV

Consumer Product Variant

Vintage Identification - 1991





New European Regulations

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WINES & AROMATISED WINES



New specific rules will be compulsory: all wines and aromatised wine products commercialised in the EU, independently of their origin, will have to **communicate the list of ingredients and the full nutrition declaration on-label or online**.



SPIRITS

The spirits sector already committed to providing energy information on label and ingredient information online in its 2019 <u>"Memorandum of Understanding on the</u> Provision of Nutrition Information & Ingredients"

New requirements enter into force at the end of 2023

CCC Comité Européen C des Entreprises Vins





GS1 Digital Link URI

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Brand Owner Created QR Code 2DBarcodes Advancing practical implementations

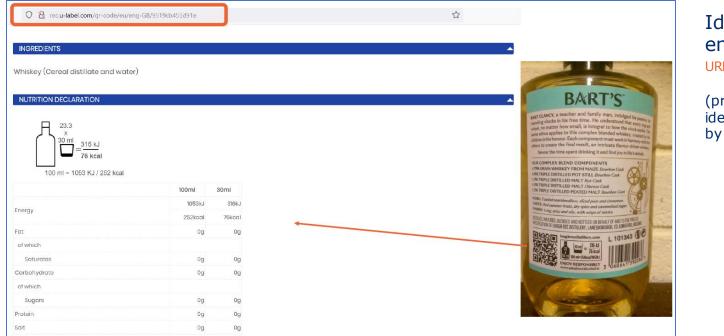
	://e-label.pernod-ricard.com/L01575	MARTELL VS 40%	67 % t	v y 0 t 2 ≡	
Original & Health				0 0 0	QR code designed by Pernod Ricard
Nutrition Facts Sall (g) Protein (g) Carbohydrate (g) Square (g) Fat (g) Energy (LiAcol)		את 30 את 0 0 0 0 0 0 0 0 0 276 / 67		per 100 ml 0	Printed on back label identifier
About Us It is a market in the second seco					Embedded in URL: L0157



U-Label Proprietary QR Code

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Identifier embedded in URL 9519cb455d91e

(proprietary identifier generated by U-label solution)

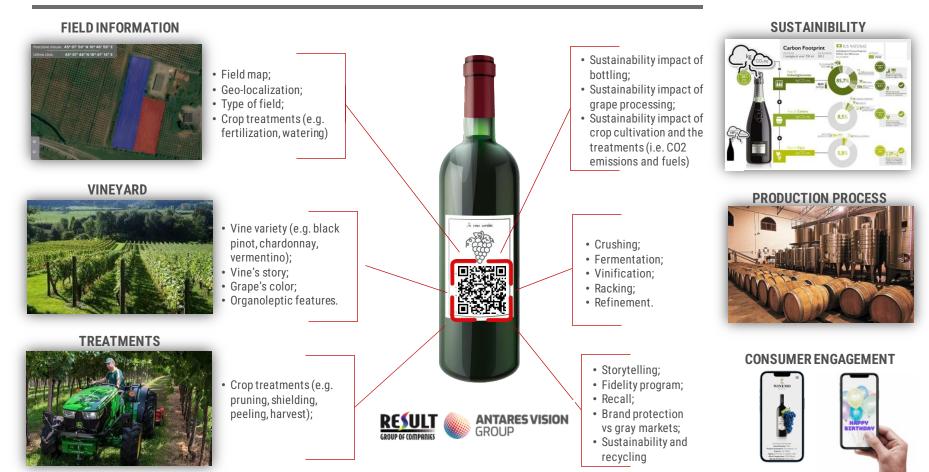


Buyerdock Liquor Engagement 2DBarcodes Advancing practical implementations





Global Wine Producer Traceability 2DBarcodes Advancing practical implementations







Check Locally Australasian Recycling Label Style Guide



This guide outlines the best practice and sizing options for packaging components assessed as being able to carry the ARL with instructions to "Check Locally".

3. URL:

The ARL website URL must always be present when using the "Check Locally" ARL logo.

- a. Without QR: "Get latest recycling advice at arl.org.au"
- b. With QR: "Get latest recycling advice via QR or arl.org.au"

GS1 is seeking expressions of interest to participate in workshops with APCO later this year to test QR Codes with GS1 Digital Link. Email: <u>standards@gs1au.org</u>



Optional: QR with GS1 Digital Link

Companies wanting to future-proof the QR for Point-of-Sale scanning, may use GS1 Digital Link, a standard that allows the product identifier (GTIN or barcode number) to be added in the QR URL.

a. Add your product barcode number to the QR URL. E.g.: <u>http://www.arl.org.au/01/09312345678907</u>



Supporting your Journey

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Endeavour Group Update

Scott Tyler Group Quality Assurance Manager Endeavour Group

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Woolworths Update

Roberto Olivares, Woolworths Group

2D Barcode Summary

2D Barcodes scanned per week

Background

+9m

- To date, +9M 2D barcodes are scanned in stores and online per week nationally.
- 2D Barcodes were introduced in 2020 for the purpose of adding additional valuable information in the articles barcodes such as Expiry Dates (Food Safety, Out of Code Management and Online), Weight (Meat), Date & Time of Production (In Store Production) and Batch / Serial ID's (traceability).
- 2D Barcodes were chosen due to their higher data capacity, compact size symbology and error correction capabilities.

New

Trialling NOW

Proprietary Bakery

- The new Bakery Expiry Date labels with 2D Barcodes are applied over the existing linear barcode when the item is thawed.
- The new 2D barcode contains the expiry date. The registers prevent the sale of the item if expired.
- These articles are also added to the Out of Code system automatically, when the expiry date label is printed.
- The expiry label is being trial in 15 stores since 10 July.

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2D Barcodes in Proprietary Bakery

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Customer and Team benefits

- Food Safety by preventing the sale of expired products
- 2. Streamline Out of Code Markdowns by adding the item expiry date in the barcode and Out of Code system
- Support

 improvements in
 key performance
 indicators of waste
 reduction and
 productivity





In-Store Fruit & Vegetable Labels

New In-Store F&V labels went live on Monday 26 June in 10 Woolworths stores.

28 freshly cut F&V articles, such as watermelon, are using the new in-store F&V labels.

Benefits for Customers and Team Members

- 1. Production traceability added with **Date & Time of Production**
- 2. Streamline process and print labels on demand as needed
- 3. Reduce number of labels from 28 SKUs to 1.
- 4. Reduce unnecessary pre-printed labels
- 5. Keep F&V prep area clean and tidy from labels

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2D in Retail Market Survey

John LaVacca, GS1 Australia

Market Survey

June 2023 546 participants Retail and Brands

Demographics

- GS1 Australia, AFGC, ARA, NRA and Drinks Association members
- 546 participants
- 86% Brand owners
- 31% CEO (17%) or Senior Executive (14%)

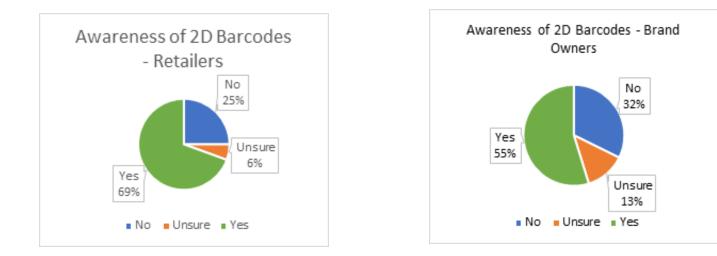
Topics

- Awareness of 2D Barcodes
- Perceived value
- Usage and Plans





Overall - 57% are aware of 2D Barcodes







Awareness of 2D Barcodes by organisation size

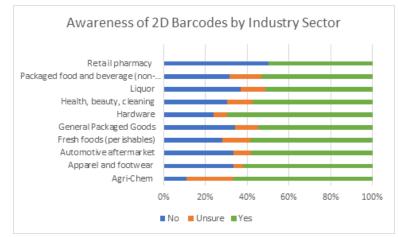
40%

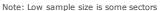
No Unsure Yes

60%

80%

Consistent across segments, larger organisations more aware than small companies







500+ employees

200-499 employees

20-199 employees

1-19 employees

0%

20%

100%

120%



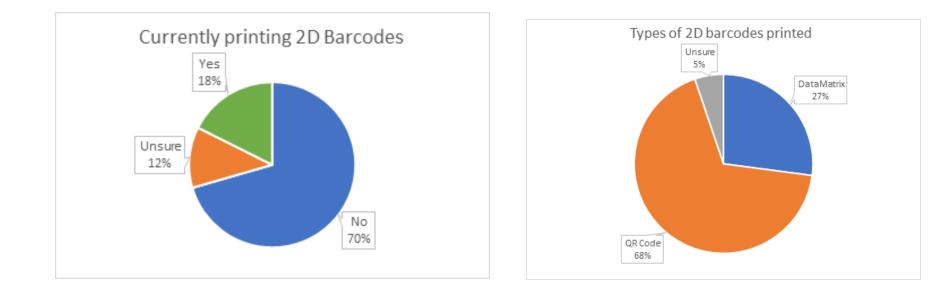
2027 Ambition date





2D Barcode Usage

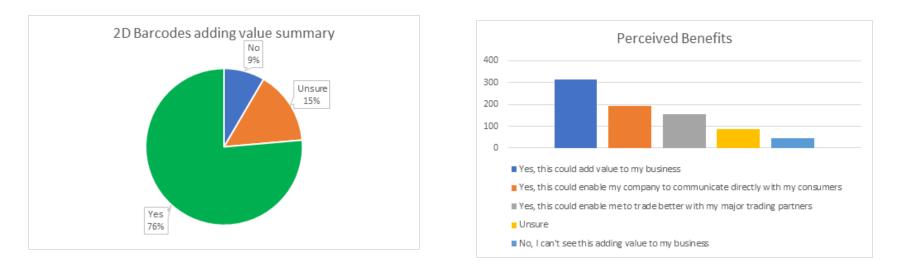
2DBarcodes RETAIL ADVISORY GROUP Advancing practical implementations





Benefits

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"2D Barcodes will unlock a lot of opportunities..."

"a great idea."

"...people are well equipped with the know-how of scanning these barcodes..."

"excited to see how this goes and...what changes this will make to businesses."



Industry is planning to expand 2D usage and GS1 is investing to support adoption

- Survey respondents
 - See benefits and planning to expand use...but uncertainty exists
- GS1
 - "Keys to Success" videos
 - Retail Comms Pack
 - New webpage
 - New training modules
 - Support services alignment
- Questions / Thoughts?





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Marketing Update

Tracey Kelly-Jenkins, GS1 Australia

Communications

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Welcome to the central hub for the 2D in Retail Advisory Group. Here you will find the most recent materials, including meeting agendas, minutes and presentations for Advisory Group meetings.







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General Business

Q&A



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Thank you