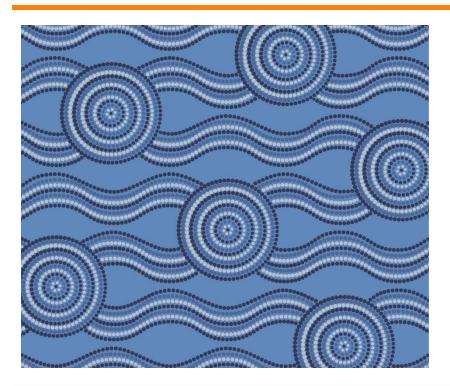


# 2D in Retail Advisory Group Advancing practical implementations

Jenny Keegan, Woolworths Mark Dingley, APPMA & Matthews

Meeting #13, November 2023

## Welcome to country



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



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: <a href="http://www.gs1.org/gs1-competition-law-caution">http://www.gs1.org/gs1-competition-law-caution</a>



# Meeting Etiquette



Introduce Yourself
When asking a question

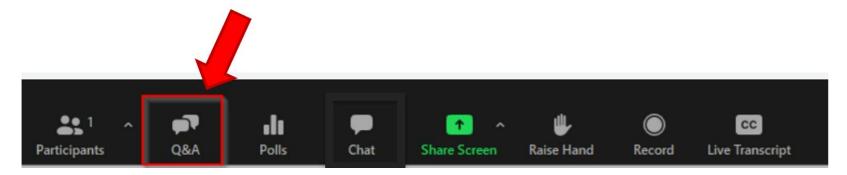
Be considerate
Silence phones
Keep comments concise

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







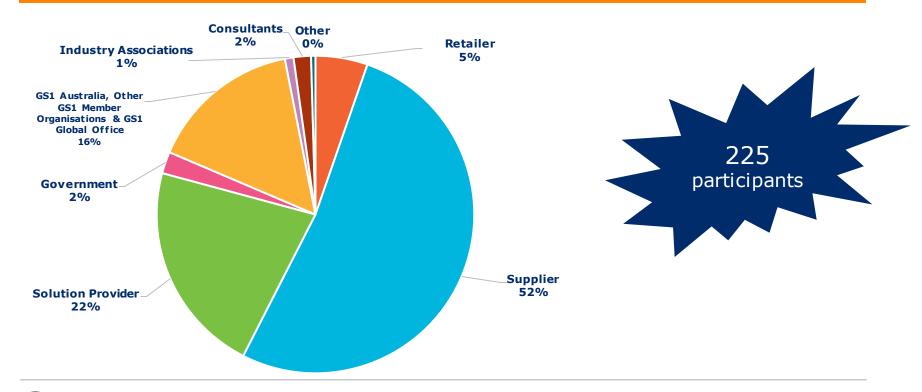
# Agenda

Welcome and Introductions Next Evolution of 2D in Retail Advisory Group Global Update Local Update 2D Training Update Marketing Update General Business, Q&A



# Participants Profile this year







### Year in Review



- Live demo by Steven Keddie
  - Scanning 2D barcodes GS1 DataMatrix, QR/Data Matrix with GS1 Digital Link
  - Scanning linear & 2D adjacent to each other but still getting one BEEP at POS
- Launch of Keys to Success Video series
- Widening the diversity of the group Liquor, FMCG, General Merchandise
- Increase in group subscription (around 60% increase)





# Evolution of 2D in Retail Advisory Group

Sue Schmid, GS1 Australia



# 2D Program Overview



The 2D program is structured to build 2D awareness, desire, capabilities and support 2D adoption efforts to deliver positive outcomes.

Strategic Pillars

Build Awareness & Desire

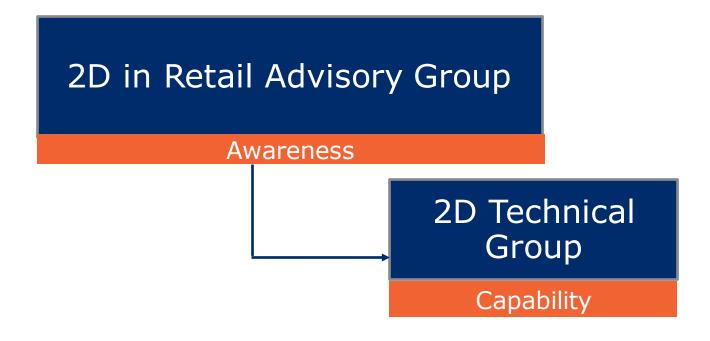
Build Capabilities

Support Adoption

Purpose Driven

Aligned
Positive Outcomes







### Call to Action





#### Our request to you:

Forward this to your team members that you think are the people that need to be part of the technical detail of the 2D evolution





# **Global Update**

Tania Snioch, GS1 Global



# One scan. Infinite possibilities.

The Global Migration to 2D programme barcodes brings together the internet and the barcode.

With this partnership, simple scan transforms into a gateway of in-depth product information for consumers and opens many unique possibilities for all stakeholders across industry.



# Global Migration to 2D Programme



**Ambition 2027:** Prepare (with industry) to ensure that, by 2027, all Retail POS scanners globally are capable of reading and processing 2D barcodes powered by GS1 and that there is broad, global Supplier Brand implementation of the same.

#### **Community Engagement**

- Strategic stakeholder engagement
- Supporting foundations

#### **MO Deployment**

 Ensuring MOs have the required knowledge and tools to engage their stakeholders

#### **Technology Readiness**

 Facilitating solution provider capability and the underpinning standards that support this

**KPIs:** Measuring progress, both globally and nationally



# Outstanding progress and strong momentum





Pilots are taking place in 48 countries, representing 88.5% of world GDP

#### **Detailed GS1 Member Organisation reported 2D activity**

36 GS1 MOs participating **75**%

(27 out of 36) of GS1 MOs are actively piloting 2D

94%

(34 out of 36) of GS1 MOs are engaging with their members via webinars, workshops, industry groups

**177 Brand/Manufacturers** participating in MO 2D Pilots\* **89 Retailers** participating in MO 2D Pilots

\* Not including GS1 China, which had 364,833 brand/manufacturer companies with 2D codes on 12.9 million products as of August 2023

#### **Pilot Insights**

Submissions of 1 September 2023





# Thank you and questions!

Tania Snioch
Director Global Migration to 2D Programme
tania.snioch@gs1.org





(01)09506000134352





# **Regional Update**

Sue Schmid, GS1 Australia



## Asia Pacific Update



#### The year that was 2023

- Continued learning and exploration of 2D across the region
- Great program from GS1 Korea that focused on 2D for identification of recycling materials

#### **Looking forward in 2024**

- To support the regions, drive towards pilots
- Continue our learning within the region
- Understand the connectedness with regulation of the impact of 2D

Asia Pacific Region continuing to drive the 2D message in local market.





# **Local Update**

Andrew Steele, GS1 Australia





# Industry Engagement - Associations 2DBarcodes RETAIL ADVISORY GROUP



Advancing practical

#### Australian Retailers Association

- Supply Chain Committee
- Sustainability Committee
- Technology & Innovation Comittee

#### drinks Association

Supply Chain & Logistics Forum

**Hort Connections** Australian Assurance Summit

#### Australian Food & Grocery Council

- Trading Partner Forum
- Food & Grocery Australia
- Sales Director Committee
- Nutrition & Regulatory Committee





# GaP Solutions/Romeo IGA 2D

Nathan Goodacre, Business Intelligence Analyst GaP Solutions



# Nathan Goodacre – GaP SOLUTIONS

A new dimension in barcodes

Expertise in collaborating with customers, software engineers, and support staff to design, develop, and implement innovative retail solutions for supermarkets and fresh food retailers. Passionate about leveraging technology to enhance customer experiences and streamline operations, driving business growth and achieving organizational goals.





# 2D Barcodes – Why?



Independent Retailers need a modern solution to help them with efficiency

GS1 DataMatrix helps to track wastage. Can reduce wastage and ultimately save the retailer money

Can prevent the sale of expired products, this will give the customer greater trust in the retailer

Good things can happen with increased supplier adoption:

- Traceability
- Expiry and Batch Tracking
- Dynamic Pricing



#### 2D Barcodes - How?



#### **Planning**

Independent Retailers often have a mix of hardware, some hardware does not support 2D

### **Building a Business Case**

2D Barcodes can provide much more functionality, picking the most valuable features for their business is critical

#### **Process Investigation**

Working with retailers to understand the current processes and how 2D Barcodes can add value

#### **Trial**

- Need to ensure correct sizing of symbol
- working with different shapes of products including round
- Human Readable Numbers



#### GaP Solutions - Romeo's IGA



Jason Kouka, Romeo's NSW Regional Manager, "We will be able to respond quickly to customer demand, reduce overall costs, improve operations and better meet the needs of our customers. The new markdown features with use-by-date checking capabilities are also a great addition, as it helps us to reduce waste and improve our inventory management. It's great to see that GaP Solutions are helping retailers be more sustainable and environmentally friendly."



# Mark Down Example





Data Encoded

(01) GTIN

(13) Packaging Date

(17) Use By Date

The Global Language of Business

(3922) Markdown Price

(91) Internal – Original Price of the product





# **Woolworths Update**

Roberto Olivares, Woolworths Group



## 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	
8 Beef Sausages	• Transition of Fresh articles to 2D Barcodes	<ul> <li>Meat Conv: 339 articles and 10 suppliers.</li> <li>F&amp;V: 36 Salad bag articles and 4 suppliers.</li> <li>Deli Service: ~230 articles</li> </ul>	<ul> <li>Woolworths Branded Meat: 39 articles and 7 suppliers</li> <li>Woolworths Branded Fresh / Perishables: ~750 articles and ~70 suppliers</li> </ul>	
The second secon	• Cut F&V 2D Barcode labels	<ul> <li>Trailing 2D barcodes with Date and Time of Production on Cut F&amp;V in 10 stores and 28 articles.</li> </ul>	• Deployment H2F24.	
GA CKE	Hot Food 2D     Barcodes	Trailing 2D Barcodes in Hot Food (Roast Chickens) to validate production time	• Deployment H2F24.	
	Prop Bakery 2D Barcode labels	Trialling 2D Barcodes in Prop Bakery +370 articles with Expiry Date labels in 15 stores	● Deployment H2F24.	

#### What is a 2D Barcode

A Data Matrix barcode symbol is a two-dimensional (2D) matrix barcode, consisting of black and white "cells" or modules that can be arranged in a square or rectangular matrix, allowing the printing of variable information in a barcode data carrier, at high production rates.

#### What Data is used in the GS1 DataMatrix barcode

Embedded Data	(AI)*	Article Type	Mandator y/ Optional	
GTIN	(01)	All	М	
Sell Price	(3922)	RW	М	
Actual Weight (Kg)	(3103)	RW	М	
Use by Date Best Before Date	(17) (15)	All	М	
Batch / Lot ID #	(10)	Any	0	
Serial Number	(21)	Any	0	

<sup>\*</sup> There is a large number of Application Identifiers (AI) GS1 General Specifications that can be used in a 2D Barcode. The use of an application identifier (AI) is only required on the basis of its use-case.

#### **Barcode Types for Retail**

- **EAN/UPC** Traditional linear barcode. 50 years. Fixed data string.
- ITF-14 Logistics unit (Carton). Linear barcode. Fixed data string.
- GS1-128 Logistics unit (Carton). Linear barcode. Encodable variable data and continuous code.
- **GS1 Databar** Linear barcode. Encodable variable data, up to 74 numeric characters. Currently in use in Loose Fruits. It's 4.5 times larger than a GS1 DataMatrix barcode.
- **GS1 DataMatrix** two dimensional matrix barcode. Encodable variable data, up to 2335 alphanumeric characters
- **GS1 Digital Link OR Code** two dimension matrix barcode. similar to GS1 DataMatrix with added ability to encode URL information for consumer engagement. It's 2.5 times larger that a GS1 DataMatrix due to URL
- **Digimarc** Linear barcode. Fixed data string. Digimarc's proprietary digital watermarking technology. Product can't be marked down

#### GS1 DataBar Stacked



#### GS1 DataMatrix



#### **GS1 Digital Link QR Code**



# **Sharing 2D Implementation** with Other Retailers in 2023

- Woolworths Journey on 2D Barcodes
- Why GS1 DataMatrix
- How and why were the relevant product groups selected for the 2D barcode trial
- How, when and where were the 2D barcode labels applied to the products in the trial
- Did all store devices recognise the 2D barcode e.g. handheld terminals for availability / picking processes & point of sale systems
- What about GS1 Digital Link











#### 2D at Point-of-Sale Implementation Guideline

# 2D in Retail Global Working Group

- As 2D barcodes have larger data capacity than traditional linear barcodes used at retailer point-ofsale, the possibility of encoding GTIN and additional information enables multiple use cases for in-store and online, which are not possible with the GTIN alone.
- This guidance is intended to be applicable to all types of retailers, from small independent businesses all the way through to large multinationals.
- This document will provide guidance specific to retailers implementing 2D barcodes, to help understand business opportunities, changes to existing processes or the introduction of new processes, and most importantly, the various requirements to ensure success throughout all phases of 2D migration, including the transition period.



#### 6 Implementation guidance for retailers (Roberto-Woolworths & Peta-GS1 GO)21

6.1	Reta	iller roles in 2D implementation	2
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# Upcoming Seminar/Webinar / Event

**Andrew Steele** 

# Wine Industry Seminar



#### Webinar Invitation

Unbottle the potential of 2D barcodes for your brand

Register for this timely webinar and hear keynote speaker Ned Hewitson, Legal Counsel at Wine Australia, provide the latest from the grapevine on European Union (EU) wine labelling.

GS1 experts and solution providers will also crack open next generation 2D barcodes and the latest digital options available to brands for meeting the new and evolving regulatory and retail requirements.

Wednesday, 06 December 2023 11.00am to 12.00pm

Click Here to Register





#### AIP 2D Webinar



#### Hosted by the Australian Institute of Packaging (AIP)

Take a deep dive into 2D barcodes and what it means for the printing and packaging industries.

Next generation 2D barcodes are revolutionising businesses in Australia and across the globe.

A single 2D barcode can hold a significant amount of information and may remain legible even when printed at a small size or etched onto a product. 2D barcodes are used in a wide range of industries, from grocery, manufacturing and warehousing to logistics and healthcare.

This session will provide an overview of next generation 2D barcodes including labelling, placement, size specifications and more. Speakers will discuss examples and answer your questions.

Register: <a href="http://aipack.com.au/event-registration/?ee=411">http://aipack.com.au/event-registration/?ee=411</a>



#### APPEX - Melbourne March 2024



### APPEX | Australia's Largest Processing & Packaging Expo

APPEX, Australia's premier Processing and Packaging Expo, is coming to the Melbourne Convention and Exhibition Centre from 12–15 March 2024.

Previously known as AUSPACK, APPEX 2024 is set to be Australia's largest event in the country for manufacturing, retail and distribution to source the latest in machinery, equipment, materials & packaging, food processing and industry services.

Owned and presented by APPMA, the Australian Packaging and Processing Machinery Association, APPEX is built on a strong foundation laid by 35 years of successful AUSPACK exhibitions and is set to represent the entire processing and packaging industry, uniting all sectors for a comprehensive exploration of innovation and collaboration.

Free Registration: <a href="https://www.appex.com.au/register">https://www.appex.com.au/register</a>





# **2D Training Update**

Brian Gemmell, GS1 Australia



# 2D Barcode Basics eLearning

- Built 2D barcode basics eLearning module industry agnostic
- Covering:
  - What are 2D Barcodes?
  - Why were they developed?
  - The differences between linear barcodes and 2D barcodes
  - The benefits of 2D Barcodes
  - GS1 2D Barcode types
- To be made available to members via GS1 Australia LMS shortly



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# Training plan 2024



- Main target industries: Solution Providers, Retailers, Brand owners.
- 2D training analysis identified 16 topic areas.
- Training pathways developed based on industry, job role and topic areas.
- 2024 training plan:
  - eLearning modules for topics that have broad audiences
  - Scheduled instructor led sessions (both F2F and Zoom), focussing on technical topic areas
  - Learning Management System hosts eLearning
  - Private training offered for all content
  - Marketing campaign planned to drive participation





# **Marketing Update**

Tracey Kelly-Jenkins, GS1 Australia



#### Website

# 2DBarcodes Advancing practical implementations





Retailer Companies

Accelerate your digital

transformation with next
generation 2D barcodes. Be ready
for 2027, today.

Learn more



Food & Beverage

Brand owners, suppliers and manufacturers; Unlock infinite possibilities with 20 barcodes and safeguard your future.

Learn more



General Merchandise

If you're in apparel, homewares, hardware or anywhere in between, 2D barcodes are the next generation for brands and retailers, online and instore.

Take a look



Primary Industry

Producers, processors and marketers, enhance your export opportunities, achieve two-way consumer interaction and much more with 2D barcodes.

Learn more



Healthcare

Across the globe, 2D barcodes are transforming the healthcare industry.

Learn more



Rail

Project i-TRACE and 2D barcodes deliver a safer, more efficient rall industry. Critical data captured by a simple scan, directly at the point of use.

Learn more



Freight

2D barcodes and Scan4Trasport drive digital capability for the transport industry. Supporting first mile, sortation and last mile activities.

Learn more



Solution Providers

2D barcodes are transforming the way technology is being used. Help your customers transform their business today and for the future.

Here's how



Printing & Packaging

Support your customers with knowledge and expertise to deliver the correct standards and specifications required for 2D barcodes.

View now

#### 2D Barcodes - GS1 Australia



#### Website



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Page views

1,588 \$ 35.6%

Clicks

2,377 \$ 48.2% Unique viewers

770 17.7%

Engagement time

10:07:38

£ 26.1%

First time visitors

378 • 5.6%

**Bounce Rate** 

50.73%

#### **Conversions**

Newsletter Subscriptions

> 55 ± 3.8%

> > 1 Jul 2023 - 15 Nov 2023



#### Video series











#### **Highlights**

Total views Subscriptions

5,052 123

1 Jul 2023 - 15 Nov 2023







# **General Business**

Q&A





# **Thank you**

