

GS1 2D Pilot Toolkit

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Updated February 2023



How to use this Pilot Toolkit slide deck

1. Executive Summary (jump to slide 2)

Start here for a brief introduction to the sections in the Pilot Toolkit.

2. Full Pilot Toolkit (jump to slide 12)

Start at the beginning if you are new to 2D and want a complete overview of each element to start your 2D journey. This guides you through the Why, What, Who, How and Reporting and Learning sections.

3. Ready to Plan Your Pilot (jump to the HOW Section at slide 52)

If you already have a good understanding of 2D basics and would like to start thinking about how to organise and plan a pilot, start with the How section. You can always open and close the Why, What and Who sections for additional background and information.

In Slide Show mode, the navigation buttons below allow you to jump around the toolkit sections





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WHAT IS THE 2D PILOT TOOLKIT?

A set of practical and relevant building blocks to enable both manufacturers or brand owners and retailers to jump start their 2D pilots













Reporting & Learning

REPORTING

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SHARE

Tools available for sharing your 2D pilot with the GS1 community:

Report & Learn

Additional Template for Detailed Storytelling







Summary



2D PILOT TOOLKIT







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WHO



2D PILOT TOOLKIT INTRODUCTION

Migration to 2D barcodes

2D barcodes are becoming a key enabler to create both enhanced consumer experiences and unlock advanced business use cases...all while still going "beep" at checkout.

GS1 is supporting industry along this "Global Migration to 2D'' which has the ambition to enable 2D barcodes to be read at POS around the world by the end of 2027.

Industry pilots

Along this journey, industry pilots are key so that brands and retailers (in collaboration with their Solution Partners) can explore the benefits of 2D, capture learnings and identify opportunities for scale-up implementation.

GS1 Toolkit

To aid in this journey and enable industry use cases in a globally interoperable way, the GS1 2D Programme has developed this pilot toolkit framework to assist in planning pilots and capturing learnings for global knowledge sharing.



GENERAL	WHY	WHAT	WHO	HOW	REPORT & LEARN
		The Global Langua	ae of Business		



WHAT IS THE 2D PILOT TOOLKIT?

A set of practical and relevant building blocks to enable both manufacturers or brand owners and retailers to jump start their 2D pilots





Manual

How does the toolkit work?

- To use the toolkit: first enter presentation mode and then use the buttons in the tool to navigate to the desired modules.
- If you are thinking about starting a 2D pilot or have made first steps, then this toolkit will help YOU.

GENERAL







Where to start?

On the next page you will find the outlay of the toolkit, with interactive links to the different chapters.

While you can move to any chapter at any time, we recommend going through this toolkit sequentially on first use.

WHY WHAT WHO HOW REPORTING &

TOOLKIT CHAPTERS





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REPORT & LEAF

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Where to start?

Collaboration with all key internal and external stakeholders is foundational to pilot success. GS1 can support your pilot from the start.

Where GS1 can support

- Neutral partner in the process
- Help with guidance on data and 2D barcode choices
- Provide guidance on the use of globally-interoperable GS1 Standards
- Leverage standards and solutions that are already implemented
- Connect to other companies that are piloting or have piloted
- Assistance in connecting to scanner or POS providers









Understanding the WHY



What business use cases can be unlocked using 2D barcodes





WHY

There are many reasons to pilot with 2D. You can find the six key drivers here.

While you may select a primary driver for your pilot, look for additional benefits that can be realized through 2D barcodes.



Key learning:

Start with a brainstorming exercise on potential use cases to define the most beneficial value drivers to begin your 2D journey









Consumer Engagement

- Access to Brand authorized information
- Price and promotions
- Nutritional information and recipes
- Opportunities to engage with the brand

Sustainability

- Recycling information
- Enables Circular Economy

Product authentication

Supply chain visibility

Consumer trust

Ingredient sourcing info

- Waste Prevention
- Farm to Fork

Traceability

Repair information

8

KEY

DRIVERS



- Brand Integrity
- Prevent sale of expired or
- recalled product
- Fight counterfeiting

Inventory Management

- Maintain FIFO (first in, first out)
- Inventory accuracy
- Availability and location insight
- Avoid waste, ensure freshness
- Efficient store processes
- Improved analytics & insights

Improved Packaging

- Marketing goals on-pack
- Regulatory compliance
- Enhanced consumer experience





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Food safety

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Consider Consumer Engagement Goals

WHY

If your primary use cases for 2D are operational, consider how you can improve consumer KPIs by also using that same 2D barcode to engage directly with consumers.

Do you already have a QR code fon your product?

Adding the GTIN inside of your existing QR code can unlock additional use cases AND enable that same code to go "beep" at POS.

Check out key learnings here





Consumer engagement use case examples:

- 1. Product as a channel
 - In-store navigation
 - In-store conversion
 - Use at home
 - Share product experience

2. Marketing campaigns

- Promotions
- Social media activation
- Customize products
- Storytelling

3. Contextualized content and services

- Product info
- Agility to incorporate multiple messaging into one 2D code
- AR: virtual try-on
- Loyalty services

4. Operational excellence

- 1st party data collection
- Traceability for recalls
- Brand protection
- Quick payments







WHY

Your prioritised use cases and drivers can influence several KPIs. Here are examples that can be impacted by implementing 2D barcodes:

- Operations KPIs
- Consumer facing KPIs

OPERATIONS KPIs



Utilisation rate

- Cost of waste
- Lost sales ratio
 - FTE productivity
- Line utilisation

Traceability & Safety

Percentage of

end tracked

suppliers that

sustainability

management

Number of

implement

systems

•

products end-to-

- 2 **Sustainability**
- Percentage of circular inflow/ outflow
- Supply chain waste
- Recycling rates
- Number of reported recall incidents
- Number of expired products prevented from being sold
- Time to recall



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WHY

Your prioritised use cases and drivers can influence several KPIs. Here are examples that can be impacted by implementing 2D barcodes:

- Operations KPIs
- Consumer facing KPIs







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Establish your Benefit Logic

ABOUT



The benefit logic establishes logical links between business goals, KPIs, value drivers and components of the solution.

WHY BENEFIT LOGIC

- The benefit logic defines the benefit areas to reach the ambition and KPIs set by the stakeholders.
- It also provides a framework for linking defined solutions to the benefit areas. By doing this, it automatically creates priorities of activities and states which activities to focus.
- Different stakeholders might have different priorities and the benefit logic is helpful in identifying those differences.
- Note that for every category the benefits can differ in size and set priorities in implementation accordingly.









Benefits A number of possible consumer benefits leading to increased revenue



For retailers



Evaluate your Cost Logic

ABOUT

The Cost Logic method (also called Cost Breakdown) identifies and divides costs into meaningful components.

WHY COST LOGIC

- The cost logic defines the cost areas to reach the ambition set by the stakeholders and calculate the Business Case.
- It also provides a framework for linking defined solutions to the cost areas. By doing this, it automatically creates insights into the cost of priorities activities.
- 2D introduction requires investments in technology, processes and • people.
- Note that investments can differ depending on the category and brand label. Take this into account when setting priorities for implementation.



Cost Logic Level 1







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Cost Logic

Introducing 2D can require investment in different areas





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Key learnings

WHY

Review the key learnings and pitfalls from previous global 2D pilots to jump start your 2D pilot. You will find the learnings throughout the 2D pilot toolkit.

Key learnings

CONSUMER ENGAGEMENT (WHY)

- The content behind 2D barcodes is dynamic and can be changed instantly
- The biggest value for Consumer Products manufacturers lies in the direct contact with the end consumer
- For operational departments, engage with your brand marketing teams to align on goals and opportunities for 2D barcodes
- Using 2D barcodes can provide a competitive advantage for brand owners
- Enable real estate, not the package
- 2D barcode is interoperable and cross-platform
- Consider a call-to-action on pack to ensure your consumers are aware of 2D codes and what to use them for (e.g., at self check-out, to access product information)
- Measure the numbers of 2D scans by consumers to track consumer engagement
- Ensure consumers land on destination pages with one click (no menu)
- Ensure to start piloting with consumers before making any large changes to processes or system to ensure you get the desired results





Deciding on the WHAT



What is the scope of the pilot and what variables to consider when setting up a pilot



Decide the scope for your 2D pilot



WHAT

Once you know why you want to conduct a pilot, what benefits can be realised and have selected use cases, it is time to set the scope for your pilot.

Geography & product scope

- · Country/geographical area
- Number of stores for retail
- Product category
- Type of product (fixed/variable weight or fixed number)
- Brand of the product (private label or branded)
- Products (number of products impacted)



- Identify the end-to-end value chain stakeholders involved
- Outline business processes impacted
- Map the Data & IT systems impacted

SCOPE



- Selection of 2D code
 - QR code with GS1 Digital Link
 - Data Matrix with GS1 Digital Link
 - GS1 DataMatrix with GS1 element strings
- The GTIN should be included in *every* 2D barcode
- Selection of additional data to include in 2D barcodes is based on use case(s)



- Type of ecosystem (closed or open)
- Type of project (research, proof of concept, pilot, implementation)
- Type of implementation (virtual, full, or hybrid)
- Time (start and duration of pilot)







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Geography & Product Scope

WHAT

First in scope is deciding in what country or geographical area to pilot. If you are in retail decide on how many stores to pilot in.

Next in scope is deciding what type of product to pilot with and how many different products to include in the pilot.

A. Type of product

Food

Private labe

Non-Food

- Brand
- Variable weight
- Fixed weight

B. Number of different products

ABOUT

- Starting with one country or region and a small number of stores will make the project more feasible and time-boxed.
- Choosing the type of product will have impact on the whole pilot set-up.
- It will have impact on the benefits and the barcode and data attributes that need to be chosen.

APPENDIX

See sections 7 and 8 of the <u>2D Barcodes at Retail POS Getting Started</u> <u>Guide</u> for guidance for brand owners and retailers

See the Fresh Foods implementation guide





Barcode & Data Scope

WHAT

Second in the scope is deciding which barcode to use and what data attributes to use for your pilot purpose.

A. Type of 2D barcodes

- QR Code with GS1 Digital Link syntax
- DataMatrix with GS1 Digital Link syntax
- GS1 DataMatrix with element string syntax

B. Data Attributes

- GTIN
- Weigh
 - Price to
- Best Before Date
- Batch/lot number
- Serial Number

ABOUT

- Barcode and data selection is dependent on three key factors: who needs to scan the barcode, how will they scan the barcode and what data is needed for the desired use case.
- In some cases, you may want to start small by just using the GTIN in a 2D barcode and then scaling up to add other data as needed. In other cases, incorporating additional data will be needed.
- Your local GS1 office can help with barcode and data selection.

APPENDIX

See sections 5 and 6 for details on barcode types and how to use GS1 Application Identifiers in the <u>2D Barcodes at Retail POS Getting Started Guide</u>

Visit the 2D in Retail webpage

Use the <u>2D Barcode Explorer</u> to learn more about barcode types

See more on Best practices for creating QR Codes powered by GS1

See also other tools and templates



Barcode & Data Scope

WHAT



GS1 standards create a common product data, ensuring important

Choose the appropriate data carrier Value Chain



IDENTIFY, CAPTURE & SHARE



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Assets

Other

GS1 Standards for Data Exchange

Global Data Synchronisation Network

Electronic Data Interchange (EDI):

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Barcode & Data Scope

WHAT



There are three types of 2D barcodes



OR Code

- The only 2D barcode that is ٠ consumer scannable with all smartphone cameras.
- Connects to the web.





Data Matrix

- Can connect to the web but requires an app to scan with a smartphone.
- Can be printed a little smaller than a QR Code with the same data.



GS1 DataMatrix

- Useful in supply chain applications where consumer engagement is not a requirement today, such as variable-measure products at POS.
- Requires an app to scan with a smartphone





Barcode & Data Scope Use cases including supporting data attributes



Value Chain Scope

WHAT

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Third in scope is thoroughly looking at the end-to-end value chain to see who is impacted by the pilot and what adjustments need to be made in process, data and IT.

ABOUT

- Analyzing the end-to-end value chain will ensure you will not overlook any players nor steps that may be impacted.
- It will give you an insight into the impact for the different stakeholders whether technically, operationally or organizationally.
- During the project planning decide what changes are necessary for the pilot and which are not (resolve through workarounds, e.g. virtual stock counting).

APPENDIX

End-to End Value Chain High-level Value Chain process impact High-level Value Chain data & IT impact



Value chain Think about the E2E impact in the whole value chain and all process, data and IT touchpoints

F





Value Chain Possible process impact



Value Chain

Possible data and IT system impact



Key learnings

WHAT

Review the key learnings and pitfalls from previous global 2D pilots to jump start your 2D pilot. You will find the learnings throughout the 2D pilot toolkit.



SCOPE (WHAT)

- Map the entire process
- Understand the entire IT changes needed, not just how back-end systems connect to POS
- Think through a roadmap of use cases & how to combine them to simplify codes on-pack
- Evaluate opportunities for your private label products
- Keep in mind that a logistical unit is not the same as a consumer unit during set-up
- Check if your back-end systems can accept a 14-digit GTIN, next to 12 or 13 digits
- Think carefully before choosing your data carrier
- Validate on-pack data with data available elsewhere
- Consider opportunities to connect 2D to more information at different stages
- Check the format of dates and other structures that are fully defined within GS1 standards
- Even if you are not starting a pilot yet, when making changes to your data environment, start preparing for more product data.
- Please note that 2D implementation (and sometimes even piloting) is often not easy with e.g. in grocery with over 30k SKUs and many suppliers. It is therefore key to start with the right scope and set-up to then use the results to decide on further roll-out.
- Understanding obstacles and thinking about them up front will increase your chances of success. Key obstacles can be limited upside for a category/SKUs, large print and system investments, complex value chains, limited consumer response, number of SKUs, difficult cooperation in the value chain.



Involving the WHO



Which supply chain partners, solution providers and internal stakeholders will you engage to create success





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Select your subject matter experts and other champions based on your pilot scope and use cases.

Each internal stakeholder should be aligned with their counterparts at external partners.

GS1 helps to provide:

- Guidance on the use of GS1 standards and solutions
- Expertise in 2D barcode and data selection
- Key learnings and other best practices for pilot implementation

STAKEHOLDERS

Internal

- IT
 - ERP systems
 - Point of sales systems
 - Web and app infrastructure
 - Reporting & analytics systems
 - Other systems
- Supply chain (incl. logistics)
- Marketing
- Finance
- Legal
- Operations (incl. in store employees)
- Purchasing department

External

- Manufacturers / Brand owners
- Retailers
- Solution Providers
 - Scanning hardware & software
 - On demand barcode printing
 - Printing
 - Scales
 - POS software
 - Other
- Local GS1 office





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Key learnings

WHO

Before selecting stakeholders for your 2D pilot, it is important to consider and achieve the following:



STAKEHOLDERS (WHO)

- Ensure top-management commitment
- Identify updates needed to data governance models
- Identify adjustments needs to product lifecycle management processes
- Ensure cross-functional teams are involved from IT, Supply Chain and marketing
- Consider partnering with a trading partner that has similar timelines and goals
- Involve applicable equipment system and IT solution providers
- Ensure retailers and manufacturers collaborate on the desired barcode and data attributes and outline the benefits for each stakeholder
- Set up a matrix to clarify roles and responsibilities within your organisation and between external partner organisations
- Partner with internal and regulatory compliance resources if regulatory requirements need to be met





Set up the project, the HOW



How to set up and implement a 2D pilot; looking at different pilot building blocks, learnings and pitfalls





Set Up Pilot



Now that you've explored the use cases, identified the scope and partners, it is time to set up and run your pilot. This section breaks down the key steps to not only prepare for a successful pilot but guides you in reporting on the results and capturing learnings.



Pilot Steps





Discovery Project Phase Overview

1

The key objective of the Discovery phase is to gather information and to enable a data-driven decision on the pilot

		ELEMENT		
	Discovery	2D use cases	Determine use cases from based on business priorities	
		KPIs	Determine objective/goal (<u>KPIs</u>)	
2	Prepare & Mobilize	Benefits	Determine expected benefits for business cases	
		Costs	Define possible <u>costs</u> for business cases	
3	Execute	Impact/effort matrix	Create impact/effort matrix	
4	Report & Learn			

* Click links to access additional information



Prepare & Mobilize Project Phase Overview

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KEY OBJECTIVE The key objective of the Preparation & Mobilize phase is to set-up the pilot project and mobilize people

	Discovery	Stakeholders	Involve end-to-end stakeholders along value chain
		Collaboration model	Define collaboration model
2	Prepare & Mobilize	Checklist	Validate <u>checklists</u> for Brands/Manufacturers, Retailers and Solution Providers
		Scope	Define <u>scope</u>
3	Execute	Governance	Set up a governance model
	Report & Learn	Project team	Set up (pilot) project team
4	Report & Learn	Project planning	Develop pilot/project planning
		Communication plan	Make communication plan for end-to-end stakeholders
		Kick-off	Kick-off pilot
			* Click links to access additional informat
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Execute Project Phase Overview

OBJECTIVE

The key objective of the Execute phase is to put the plan into action

1	Discovery	Process analysis & design	Define process impact along end-to-end value chain
		Data impact	Define data impact along end-to-end value chain
2	Prepare & Mobilize	IT	Define IT Architecture, hardware, infrastructure & software impact
3	Execute	Development cycle	Develop/Build/Test/Run/Run model support (e.g. consumer service)
4	Report & Learn	Change management	People training or change management
		Documentation	Documentation
		Budget tracking	Coordinate with finance
		Stakeholder management & communication	Coordinate frequent communication across all internal and external stakeholders
			* Click links to access additional information
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Report & Learn **Project Phase Overview**

The key objective of the Report & Learn phase is to share your learnings with the wider GS1 community OBJECTIVE

		ELEMENT		
1	Discovery	2D Pilot tracker	tool to document status during your 2D pilot (incl. KPIs)	
		2D Pilot report	Template to document pilot details and facts	
2	Prepare & Mobilize	Storytelling template	Further build out via 2D pilot template storytelling	
3	Execute	Scale-up	Consider next steps and process adjustments for scale-up to a full implementation	
4	Report & Learn		* Click links to access additional information	



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KEY

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Checklist Brand Owners

HOW



.pdf

While the pilot toolkit includes a lot of information for discovery and planning for a pilot, this checklist can be valuable for Manufacturers/Brands to confirm all business, technical and partnership steps have been met.

Download a PDF checklist: https://www.gs1.org/docs/retail/Brand_a nd_Manufacturer_2D_barcodes_checklist

Scope checklist

- Evaluate business use case opportunities.
- Pick a pilot product, line or category.
- Evaluate existing barcodes on-pack.
- Select 2D barcodes based on use cases and requirements.
- Identify additional data needs that need to be encoded with the GTIN.
- Understand data and GS1 standards
 before making decisions.

Stakeholder checklist

Technical checklist

For manufacturers or brand owners

- Ensure technical capabilities for encoding dynamic data (where applicable).
- Assess print capabilities and print quality.
- Check for scanning compatibility with the new barcode.
- Ensure software, hardware and databases are up-to-date.

- Align internal stakeholders, such as Supply Chain, IT dept, Marketing.
- Engage with your Solution providers.
- Collaborate with a retailer to test POS checkout feasibility for the new 2D code.
- Identify common goals and measures with collaboration partners.
- Involve authorities if required in your region.



Checklist Retailers

HOW



Technical checklist

- Partner with your scanner and POS solution providers for guidance on system readiness for 2D.
- Evaluate backend system upgrades required to leverage additional data.
- Ensure systems can ingest additional data to support new business use cases.
- Ensure your scanners are ready to read all 2D in Retail standard barcodes.

Download a PDF checklist: https://www.gs1.org/docs/retail/Retailer

for a pilot, this checklist can be valuable for Retailers to confirm all

While the pilot toolkit includes a lot of

information for discovery and planning

technical and partnership steps have

<u>2D barcodes checklist.pdf</u>

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Stakeholder checklist

- Collaborate with trading partners to align on business use case opportunities and additional data that you would like to capture.
- Evaluate opportunities for your private label products (see checklist for manufacturers).
- Collaborate closely with solution providers; make sure POS checkout is updated and configured for your business use cases.
- □ Identify common goals and measures with collaboration partners.
- Educate in-store associates.
- Educate consumers: self checkout, omni-channel and consumer engagement.



been met.



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Checklist Solution Providers



HOW

While the pilot toolkit includes a lot of information for discovery and planning for a pilot, this checklist can be valuable for solution providers to determine the right technical solution.

Download a PDF checklist: https://www.gs1.org/docs/retail/Solution Provider 2D barcodes checklist.pdf

Scope checklist

- Review products that will be used in the pilot, including evaluating the product substrate.
- Understand which static and dynamic data needs to be encoded in 2D barcodes, which are determined by the desired use case.
- Understand the GS1 data structure and quality standards.
- Evaluate the printing and scanning environment including print surface.

Technical checklist

For Solution Providers

- Ensure technical capabilities for encoding dynamic data (where applicable).
- Assess print capabilities and print quality and adjust based on the print environment.
- Check for scanning compatibility with 2D barcodes.
- Ensure software, hardware and databases are up-to-date.
- Optimise how data is encoded in the 2D barcode.



Stakeholder checklist

- Internal stakeholders to take on board include brand marketing/manufacturing, information technology, shop floor operations and maintenance departments.
- Engage with up and downstream solution providers (label software, printing, scanning, enterprise, etc.).
- Collaborate with brand and retailer to ensure POS checkout feasibility for the new code.
- □ Identify common goals and measures with collaboration partners to avoid conflicts later.
- □ Involve authorities if required in your region.



Key learnings

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Review the key learnings and pitfalls from previous global 2D pilots to jump start your 2D pilot. You will find the learnings throughout the 2D pilot toolkit.

Key learnings

PRINTING (HOW)

- Evaluate your current printing systems and explore how it can be adapted for various use cases
- Migrating to 2D barcodes is easiest for products that you are already labeling individually (such as deli or fresh meat, where an expiry date could be added)
- For pre-printed products, adding the GTIN to a QR Code may be most appropriate for consumer engagement
- Static printing is much cheaper to start with than dynamic printing (evaluate production process, print capabilities and investment needed)
- Evaluate all printers also in store; e.g. for in-house deli system
- Test 2D barcode printing on labels until barcode quality is good
- Beware that bright sunlight, and background colors might cause issues for efficient scanning
- Clean printers regularly to ensure the printed barcodes can be scanned
- Prepare to include 2D in your natural packaging (re)design cycle
- Prepare to changeover to 2D in your regular printing systems investment cycle



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Learnings

HOW

Review the key learnings and pitfalls from previous global 2D pilots to jump start your 2D pilot. You will find the learnings throughout the 2D pilot toolkit. Key learnings

IMPLEMENTATION (HOW)

- Evaluate all scanners and update hardware or software where needed: POS, flatbed scanners, fixed scanners, handheld scanners, in-store apps-including APIs, and warehouse scanners
- Understand the capabilities of 2D image scanners in collaboration with your solution providers (For example, can your scanners accommodate two barcodes with the same GTIN on the product? You may need a software upgrade to achieve this)
- Ensure mobile devices from consumers can interact with the 2D barcodes
- Train in-store employees and gain buy-in as part of the pilot planning
- Translate the improved (future) system capabilities into associate training (what to do when I see multiple barcodes?)
- Educate consumers: self checkout, omni-channel and consumer engagement
- Check the latest GS1 Standards guidelines for the human readable text under the 2D barcodes and review GS1's scanner testing outcomes



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Additional Resources



TOOLS

Reference documents are available such as guidelines, use cases, media and other links that provide information for 2D pilots.



REFERENCE

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Additional Resources

TOOLS

Case Studies document specific industry success stories from implementing 2D barcodes





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Additional Resources

TOOLS



Case Study videos document specific industry success stories from implementing 2D barcodes



GS1 DataMatrix for variable weight products GS1 Belgium-Luxembourg

VIDEO LINKS



Woolworths implements 2D barcodes GS1 Australia



First scan of a 2D QR Code with GS1 Digital Link GS1 Brasil



2D barcodes gain momentum in China GS1 China



Implementation of 7-ELEVEN in Thailand

Expiry date management across 12,432 convenience stores GS1 Thailand

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GS1 DataMatrix implementation for fresh products GS1 Switzerland





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Reporting & learnings



How to capture learnings and report pack to the GS1 community



Reporting & Learning

REPORTING

- Reporting 2D pilots
 - Storytelling
 - Facts

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• Share learnings

ABOUT

• Reporting 2D pilots and sharing learnings will enable other Consumer Products and Retail organizations to recognize benefits as well as jump start their own 2D pilots; the power of the GS1 community!

TOOLS

 Using templates provided by GS1 enables the set-up of a repository in the future, where other companies can look up similar pilots TEMPLATES

2D pilot tracker 2D pilot report for repository 2D pilot template storytelling



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Complete

Report & Learn 2D Pilot tracker

Stage	Date/Status	Pilot Scale			Updated
Planning		Test Lab	In Store	Multi-location	
Pilot Duration			-		
Review/Report					

Key Stakeholders	Company	Name		Key Learnings		
GS1 Lead			•			
Retailer Lead						
Brand/ Manufacturer/ Supplier Lead			KPIs	Baseline	New	
Solution Provider Lead						
Other Participants						
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Report & Learn 2D Pilot Report for repository

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Business Use Case Definition				Organisation Details			
Description of business challenge				GS1 Member Organisation:			
and desired outcome:				Retailer, Brand / Manufacturer			
Key Drivers: (check all that apply)	 Inventory Management Traceability Safety Sustainability Consumer Engagement Improved Packaging Maintain POS efficiency Other: 		Improved Packaging Maintain POS efficiency	and Solution Provider Company Names involved in pilot:			
			Other:	Core Focus	C Retailer	Manufacturer	
Pilot Scale & Product Details:	Number of stores: Type of product: Number of produc			Key benefits / learnings			
Participants:	SupplierSolution ProviderRetailerGS1 MO			Qualitative benefits/outcomes:			
Data encoded:	GTINBest Before Date		 Serial Number Expiry Date 				
	Batch/Lot Num	ber	• Other:				
2D Barcode Selected: QR Code Data Matrix			GS1 DataMatrix	Quantitative metrics:			
		_					
Contact:			Email:		Date:		
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Report & Learn

Additional Template for Detailed Storytelling

Download online: https://www.gs1.org/docs/retail/2D_pilot_storytelling_template.docx



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2D Barcodes case study template

[Author] | [Company] | [Country] | [Date]

IIILE [Include name of company, country and catchy headline]

SUB-TITLE

[Introductory sentence highlighting the success or measurable outcome from the pilot]

Challenge

[Describe the challenge that motivated starting a 2D pilot]

Solution

[Describe the solution]

Benefits

[Outline the benefits realised by using 2D barcodes]

MAIN BODY OF TEXT

[DESCRIPTION OF THE PROJECT HERE]

YOU CAN TALK ABOUT:

- Set-up of the pilot:
 - a. Involved stakeholders internal and external
 - b. Collaboration opportunities
 - c. Preparation for the pilot
 - d. Key activities of the pilot
- 2. Impact of the pilot:
 - a. Impact on business, consumers, operations
 - b. Impact on technology and processes
 - Benefits and value of the pilot
- 3. Key learnings from the pilot

QUOTES

[Include 1-3 quotes highlighting the business success and outcomes from the pilot] [NAME] [TITLE] [COMPANY]

ABOUT

[Provide information about the retailer, brand and manufacturers highlighted in the case study – history, number of products/stores, global reach, etc.]

PICTURES

[Include relevant pictures from the pilot that help tell the story – photos of products with 2D barcodes, scanning of products, products on the shelf, etc.]



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Have questions?



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