

# Mobile Self-Scanning and Checkout-Free 2021

## Executive Report and Market Database

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May 2021

*The information and data within this document are strictly confidential and must not be disclosed to a third party.*

[www.rbrlondon.com/retail](http://www.rbrlondon.com/retail)

## RBR's brand new study of self-service shopping technologies addresses the current lack of data on this dynamic market

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### **A dynamic market for advanced self-service shopping technologies is developing**

- ▶ Consumers expect convenient, personalised and speedy shopping experiences
- ▶ To match innovators, retailers need to reduce friction from in-store checkout
- ▶ A diverse range of technologies have been developed to obviate the end-of-shop scanning process, but capabilities and scale of deployment vary dramatically



### **Technology vendors and other industry stakeholders need intelligence on this market**

- ▶ Understand international market context, and identify future opportunities
- ▶ Benchmark vs. competitors in key geographic and market segments
- ▶ Provide authoritative, independent substantiation of presence in marketing collateral

## *Mobile Self-Scanning and Checkout-Free 2021* provides suppliers with the first comprehensive view of projects around the world

Scope	
<b>Products</b>	<b>Mobile Self-Scanning and Checkout-Free</b> technologies <a href="#">More details on page 4</a>
<b>Geographies</b>	<b>Global data</b> including figures for <b>23 country markets</b> <a href="#">More details on page 5</a>
<b>Metrics</b>	Number of <b>stores</b> , number of <b>devices</b> <sup>1</sup>
<b>Data</b>	<b>Market size</b> and <b>vendor shares</b> , end-2020
<b>Segmentation</b>	<b>Size of stores:</b> micro (<500 sq ft), small (500-5k sq ft), medium/large (>5k sq ft)
<b>Vendors</b>	<b>60+</b> across <b>checkout-free</b> technology, mobile self-scanning <b>software</b> and <b>hardware</b> , including AiFi, Amazon, BudgetBox, Caper, Datema, Datalogic, Re-Vision and Zebra

<sup>1</sup> For projects with retailer-owned self-scanning devices

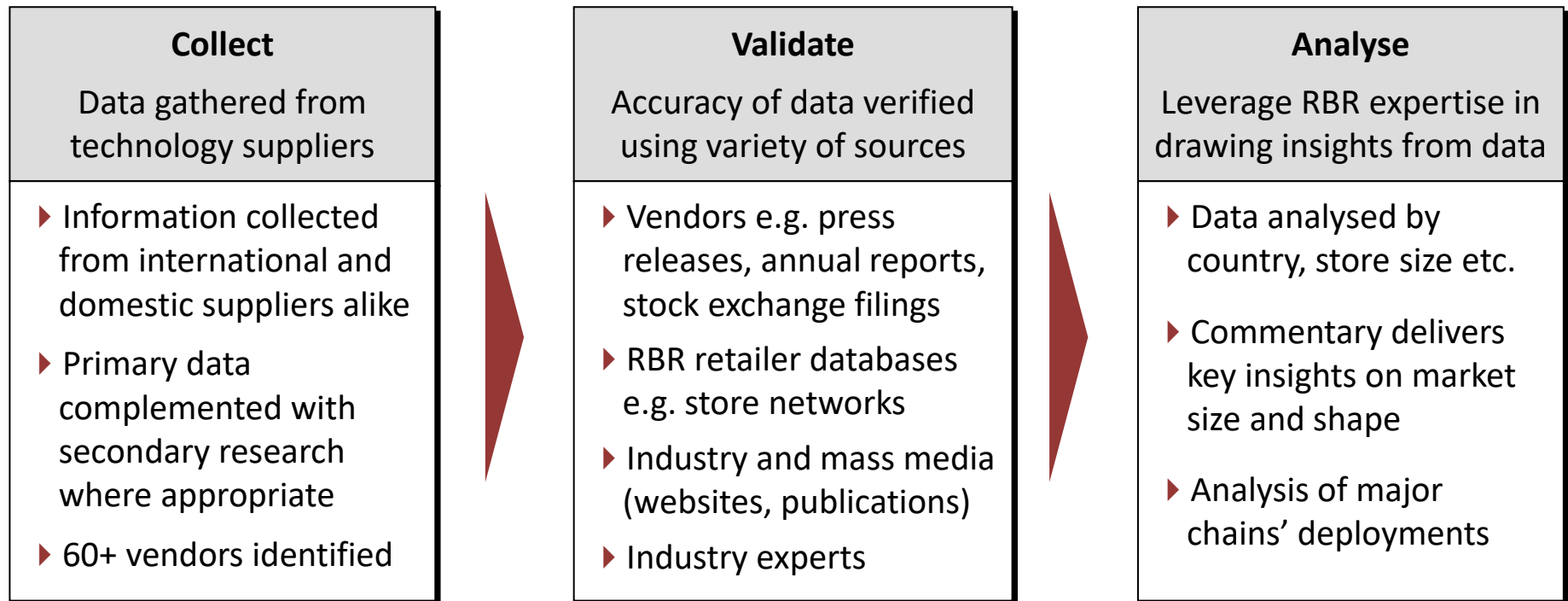
# The study addresses technologies that move data capture away from a final “checkout” process

Product Scope		
Dimension	Included	Excluded
Industry	<ul style="list-style-type: none"> <li>▶ Retail: self-service product selection in a store</li> </ul>	<ul style="list-style-type: none"> <li>▶ Vending: self-service product selection at a stand-alone machine</li> <li>▶ Hospitality: self-service or assisted-service ordering; employee fulfilment</li> </ul>
Data Capture	<ul style="list-style-type: none"> <li>▶ Actively – by consumer                             <ul style="list-style-type: none"> <li>▪ Mobile self-scanning using retailer- or customer-owned device</li> <li>▪ Alternatives e.g. NFC shelf labels</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▶ Passively – by technology                             <ul style="list-style-type: none"> <li>▪ Using any combination of cameras and other sensors (e.g. weight)</li> <li>▪ Whether at store, shelf, cart or basket level</li> </ul> </li> </ul>

## The study provides global data, including figures for 23 country markets



## The study combines primary and secondary research with RBR's in-house data, market understanding and research expertise



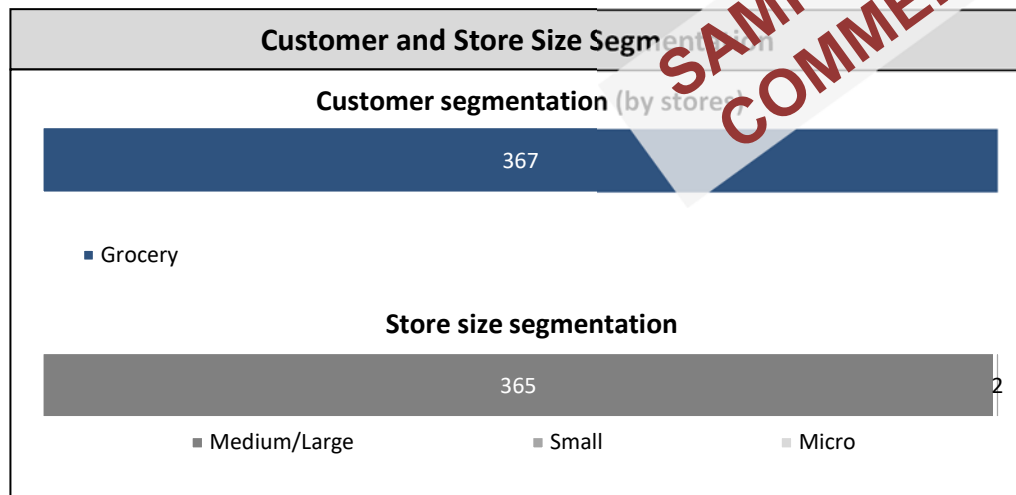
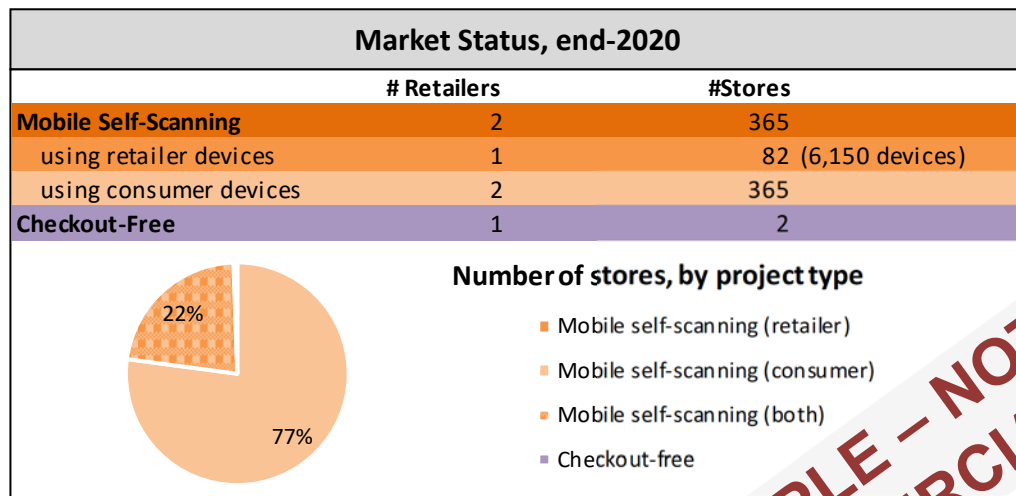
## Study clients receive an executive report and a comprehensive market database, plus access to RBR's project team

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- ▶ Printed and electronic (multi-user licence) copies of research findings
  - Executive report in PowerPoint containing key market facts and commentary by country
  - Market Database in Excel
- ▶ A conference call presentation of the study results can be organised if desired
- ▶ Privileged access to RBR's senior researchers during and after study
- ▶ The study price is £25,000

*If you have questions, or to place an order, please contact  
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# The Polish mobile self-scanning market is in its infancy, with two major chains deploying the technology



- ### Key Insights
- ▶ At the end of 2020, 365 stores in Poland, operated by two major grocery retailers, offered mobile self-scanning to customers
  - ▶ The majority of stores allow customers to scan items with their own smartphones
  - ▶ Lidl, Aldi and Tesco are the two participants in the nascent Polish mobile self-scanning market
  - ▶ Lidl, which operates around 900 stores in Poland, was the first retailer to launch this service in 2017
  - Customers can choose to pay in cash after having scanned items using their smartphone
  - ▶ Tesco customers in Poland can use either retailer-provided devices or their own smartphones
    - Around half of Tesco's nearly 330 stores offer some form of mobile self-scanning
    - A larger number of stores allow scanning of items through consumer's devices than retailer-provided ones
    - The same software application is used at Tesco stores in Czechia, Slovakia and Hungary
  - ▶ As of end-2020, no other major Polish retailer operated live stores with mobile self-scanning
  - ▶ Zabka, which operated more than 5,000 small-format grocery stores in Poland, has opened two checkout-free outlets
  - ▶ The technology in these stores is provided by California-based firm AiFi
    - It is envisaged that more stores from this retailer and its franchisees will feature the technology in future



# The Market Database provides comprehensive market and vendor data by country, including store and device numbers

MOBILE SELF-SCANNING AND CHECKOUT-FREE 2021											
Mobile Self-Scanning Software Stores - by Vendor, Region and Country, end-2020											
Confidential - Internal Use Only											
Region	Country	Total	BudgetBox	Datena	CultureProof	Concure	Shipibo	MCR	Re-Vision	Skip	Toshiba
Americas	Canada	xxx						xx			xx
Americas	USA	x,xxx					x	xxx		xxx	xxx
Americas	Brazil	xxx									
Americas	Chile	xx									
Americas	Other	xx					x				
<b>Americas</b>	<b>Total</b>	<b>x,xxx</b>					<b>x,xxx</b>			<b>xxx</b>	<b>xxx</b>
Europe, Middle East and Africa	France	xxx							xxx		x
Europe, Middle East and Africa	Germany	xxx					xxx		x		
Europe, Middle East and Africa	Italy	xxx						xx			
Europe, Middle East and Africa	Netherlands	x,xxx		xx				xx	xxx		
Europe, Middle East and Africa	Poland	xx					x				
Europe, Middle East and Africa	Russia	xxx					xx	xx	x		
Europe, Middle East and Africa	Spain	xxx						x			xx
Europe, Middle East and Africa	Sweden	xxx		xx				x			
Europe, Middle East and Africa	UAE	xx									
Europe, Middle East and Africa	UK	x,xxx						xx	xxx		x
Europe, Middle East and Africa	Other	xxx					x		xx		
<b>Europe, Middle East and Africa</b>	<b>Total</b>	<b>xx,xxx</b>	<b>x,xxx</b>	<b>xxx</b>	<b>xxx</b>	<b>xxx</b>	<b>xxx</b>	<b>xxx</b>	<b>x,xxx</b>	<b>xxx</b>	<b>xxx</b>
<b>All Regions</b>	<b>Total</b>	<b>xx,xxx</b>	<b>x,xxx</b>	<b>xxx</b>	<b>xxx</b>	<b>xxx</b>	<b>xxx</b>	<b>xxx</b>	<b>x,xxx</b>	<b>xxx</b>	<b>xxx</b>

SAMPLE - NOT FOR COMMERCIAL USE

## RBR has deep retail industry knowledge, researching a range of store technologies including an annual study of the global self-checkout market

### Key Qualifications

- ▶ 30 years' experience delivering international market research to diverse blue-chip client base
- ▶ Expertise in studies of hardware, software and services
- ▶ Carrying out annual study of global market for self-checkout hardware since 2008
- ▶ Strong understanding of general and technology trends in the retail industry
- ▶ Reputation for premium, independent syndicated research studies funded by industry suppliers

### Types of Client

**Technology suppliers** e.g. Diebold Nixdorf, Fiserv, Fujitsu, HP, IBM, Microsoft, NCR, Toshiba, Zebra

**Retailers** e.g. Auchan, X5 Retail

**Payments firms** e.g. American Express, Mastercard, PayPal, Visa

**Consultancies** e.g. Bain & Company, Boston Consulting Group

**Investment banks and investors** e.g. Advent International, Elliott Management, Goldman Sachs