

## WHITEPAPER

## THE FUTURE OF RETAIL

How interactive retail technology is enriching the in-store customer experience

hittitte





# INTRODUCTION

In 2021 and beyond, it will be crucial for brick and mortar stores to deliver a seamless multi-channel customer experience in-store. Retail technology will continue to play an instrumental role in digitizing the shopping experience and achieving deeper customer satisfaction. There is no doubt that retail stores will play a key role in meeting customer demand, when stores are finally allowed to reopen. Retail managers are already using the lockdown period to enhance their stores and equip them with innovative solutions of the future.

### **IN-STORE SHOPPING IS HERE TO STAY.**

Despite headlines about "retail apocalypse", the majority of retail sales around the world (5 out of 6 transactions) still take place in stores.<sup>1</sup> Several surveys confirm that shoppers are visiting stores more often than before and that in-store shopping is especially popular amongst the tech-savvy Generation Z (those under 25 years in age).<sup>2,3</sup>

### **CUSTOMERS EXPECT A BLENDED SHOPPING EXPERIENCE.**

Shoppers flock to stores to experience the product - to see, feel and try it - before they purchase it.<sup>4</sup> While they value this traditional aspect of the shopping experience, they also seek the digital shopping features they are attuned to. It has become second nature for customers to use their mobile phones in-store to search for price comparisons, discounts, promotions, ratings, video reviews and social media content. Tech-savvy customers also seek virtual experiences that allow them to visualize the product's performance in *real-life* settings.<sup>5</sup>





With growing competition from e-commerce and as pure play shops like Amazon enter the brick and mortar space, retailers are under tremendous pressure to innovate and digitize their customers' experience. Retailers that successfully pivot to accommodate the new-age mobile-savvy consumer will find that technology can actually be a boon and not a bane for the retail industry.

### RETAILERS ARE ALREADY SEEING SUCCESS WITH INTERACTIVE DIGITAL SIGNAGE.

Retailers across a wide variety of industries have already begun to integrate retail technologies such as interactive shop windows, endless aisles, self-service kiosks, multi-user touchscreens, augmented reality, object recognition, product sensors (NFC/RFID), QR codes, mobile payments and facial recognition. The majority of retailers (80%) who have used digital signage have found that it is important or essential to improving customer's in-store experience,<sup>6</sup> and contributes to an uptick in sales.



### **INTELLIGENT SHELVES**

**MOBILE PAYMENT** 



**TOUCHSCREEN OBJECT RECOGNITION** 





**XXL VIDEOWALLS** 







# **IN THIS WHITEPAPER**

This whitepaper draws on eyefactive's rich expertise in interactive digital signage to highlight 9 key technologies that retailers should be familiar with in 2020.

A pioneer in this industry, eyefactive has helped dozens of retailers delight customers with memorable experiences across automotive, banking and insurance, beauty, food & beverage, electronics, home accessories, hospitality, oil and gas, medicine and technology. Based in Germany, the company has expertise in both touch hardware and software, and operates a one-of-a-kind software technology platform offering retailers easy-to-deploy touchscreen apps.

- <sup>2</sup> 2019 Global Consumer Insights Survey, PwC
- <sup>3</sup> Global Consumer Shopping Survey 2017, Accenture
- <sup>4</sup> Why many shoppers go to stores before buying online, *Retail Dive*
- <sup>5</sup> The Future of Shopping, *Periscope by McKinsey*
- <sup>6</sup>The customer-facing digital signage market in retail through 2021, WBR Insights



<sup>&</sup>lt;sup>1</sup> Ecommerce sales to reach nearly \$3.46 trillion in 2019, *DigitalCommerce360.com* 

# BENEFITS OF RETAIL TECHNOLOGY

Numerous studies validate the positive impact of retail technology on the customer journey in-store, from product discovery to smoother checkout.

### 1. DEEPER CUSTOMER SATISFACTION

Shoppers of all ages are excited to use interactive technologies such as virtual shelves, augmented reality and virtual reality (AR/VR) to test product functionality and access detailed information.<sup>7</sup>

### 2. STRONGER CUSTOMER RECALL

Interactive signage is 8 times more impactful than static content when it comes to eliciting a positive emotional response and encoding the brand into memory.<sup>8</sup>





### 3. POSITIVE COGNITIVE IMPACT

Interactive content strengthens the learning experience by allowing shoppers to follow at their own pace and interact with areas they are most interested in.9

### PERSONALISED SHOPPING EXPERIENCE 4.

When it comes to retail technology, shoppers value personalisation and product discovery over seamless checkouts.<sup>10</sup>

### **INFLUENCE ON PURCHASE DECISIONS** 5.

Placement of digital displays at point of sale impacts what shoppers purchase, according to 40% of respondents in a Cisco study.<sup>11</sup>

Another study found that the touchscreen experience evokes a stronger experiential thinking style, enhancing preference for products that customers want (over products that they need).<sup>12</sup>

### 6. REAL-TIME CONTENT AND ENGAGEMENT

Digital displays can be updated in real-time, allowing shoppers to experience the latest content and promotions the retailer has to offer. A survey of retail leaders confirmed that sales-driven content initiatives on digital screens are most likely to succeed.<sup>13</sup>

- <sup>8</sup> Study: Clear hierarchy of DOOH capability and effectiveness index established, By Neuro-Insight for Ocean Outdoor
- <sup>9</sup>The cognitive benefits of interactive videos, *Learning and Instruction*
- <sup>10</sup> McKinsey & Co.'s "Store of the Future" yields retailing insights in real time, *Forbes.com* <sup>11</sup> Digital signage for retail, *Cisco*
- <sup>12</sup> How touchscreens influence purchase, *Journal of Retailing and Consumer Services*
- <sup>13</sup>The customer-facing digital signage market in retail through 2021, WBR Insights



<sup>&</sup>lt;sup>7</sup> The Future of Shopping, Periscope by McKinsey

# SNAPSHOT: 9 LEADING INTERACTIVE RETAIL TECHNOLOGIES

Retailers can create simple interactive experiences that are easy-to-use for all demographics, or layer technologies to create a more intricate, feature-rich experience for tech-savvy shoppers.

### **1. INTERACTIVE SHOP WINDOWS**

Interactive shop windows are touchscreens that can be installed inside the store at point of sale, in a pop up location or as the shop window – with the hardware secure behind the glass pane. They can be set up as virtual shelves that display featured products, effectively transforming a pop up touchscreen or idle store window into a virtual store that is "open 24x7." Or, they can be set up as endless aisles that showcases the entire catalogue, allowing retailers to save on physical space within the store. Shoppers can interact with the touchscreen at their own pace to find the right product, browse through rich media content, interact with customer support or learn more information about each product. Specialised vehicle manufacturer **Polaris** used virtual shelves to help customers visualize the full range of products and personalise their own vehicles, leading to a 26% increase in vehicle sales and a 44% increase in accessory sales.<sup>14</sup>

**Implementation tip:** Use signage to inform customers about the presence of the interactive touchscreen, and match the look and feel of the on-screen content to that of the brand and store. Be creative in the design - products do not have be displayed on literal 'shelves' and can be showcased in more innovative settings. For example, a clothing brand could display products in a celebrity's closet. A beauty brand may display products in a virtual garden.





### 2. SELF-ORDER KIOSKS

Interactive touchscreens can also be set up as selfservice kiosks in-store, an implementation that is becoming increasingly popular in retail. For example, Quiz Clothing's kiosks allow customers to browse and order products that are out of stock in that particular store. These kiosks are also used to launch instant promotions, and have helped increase shopping time, boost demand and increase conversions.<sup>15</sup>

Fast food giant **McDonald's** has had tremendous success with its self-checkout kiosks, which allow customers to skip the line for the cashier, interact with visual menus, place their orders and make mobile payments by themselves. According to one study, the kiosks contributed to a 30% increase in average order size for McDonald's<sup>16</sup> – a trend that other quick service restaurants have noticed as well.

"What we're finding is when people dwell more, they select more. There's a little bit of an average check boost."<sup>17</sup>

- Steve Easterbrook, former CEO, McDonald's





McDonald's self-service kiosks are extremely popular amongst customers and make up over 50% of transactions in markets such as France, Italy and Spain.<sup>18</sup> The company has kiosks installed in over 15,000 restaurants worldwide with aggressive plans to install more across the United States by the end of 2020.

### 3. TRANSPARENT TOUCHSCREEN DISPLAYS

Transparent displays offer a futuristic way to experience a product, using a simple form of augmented reality (AR). Here, the product is placed within a box or behind a semi-transparent touchscreen display. Shoppers touch the display to activate a layer of interactive content.

Transparent displays and AR can be used to build hype around everyday products or allow shoppers to engage with delicate luxury products such as high-end jewellery, watches, designer scarves or tech gadgets. They can even be used to demonstrate large-sized products like cars, or help visualise real estate or financial products.

Research consultancy **Gartner** estimated that 100 million customers will shop in augmented reality instore and online by 2020.<sup>19</sup>





### 4. NFC/RFID TAGGED SMART PRODUCTS

NFC or RFID product tags are easy to implement and can transform products into 'smart' devices that trigger multimedia content within the store. Touchscreens can be set up on the shelves themselves transforming them into *intelligent shelves*, or can be mounted on walls to allow for larger higher resolution displays. Shoppers simply need to hold up a tagged product to activate content such as behindthe-scenes videos showing the origin of the product, social media content or interactive experiences. **Burberry** used RFID sensors in its *Regent Street* flagship store in London to demonstrate how products look on the runway.

"Burberry Regent Street brings our digital world to life in a physical space for the first time, where customers can experience every facet of the brand through immersive multimedia content, exactly as they do online. Walking through the doors is just like walking into our website."<sup>20</sup>

- Angela Ahrendts, former CEO, Burberry









Implementation tip: Educate customers that there is an interaction to be experienced with visual signage or sounds. Harvey Nichols did this by placing stickers on shelves to let customers know what kind of content they could access.<sup>21</sup>

### TOUCHSCREEN **RECOGNITION**

Shoppers can also interact with smart products using touchscreen tables. Here, the products are tagged with marker chips which serve to differentiate between multiple products. Shoppers can place the product on a table to instantly activate the touchscreen. At an automotive event, **BMW** asked visitors to place mini models of the cars on large touchscreen tables to see product specs, explore photos and videos, and register their interest.<sup>22</sup>

Touchscreen tables use object detection to deliver a simple, natural user interface for customers. Retailers can choose from a range of different touchscreen software or touchscreen apps when setting up the tables. For example, the 'Compare Objects' app<sup>23</sup> would allow shoppers to place multiple products on the table to activate a comparison table highlighting

### **TABLES OBJECT** WITH

the benefits of each. Shoppers can explore this information by themselves, or interact with the content along with a salesperson.

### LARGE-SCALE TOUCHSCREENS WITH MULTI-**USER TECHNOLOGY**

Multi-user software can be applied to touch screens of all sizes but works best with large-scale touchscreen videowalls. These are ideal for displaying high resolution content and attracting people's attention across long distances. True multi-user software, as pioneered by eyefactive, allows for unlimited numbers of touch points on the screen.

Large-scale touchscreens can also be applied to tables, creating flat interactive surfaces which shoppers can engage with while standing or sitting comfortably. Touchscreen tables allow multiple people to interact from any angle and can be layered with additional features such as NFC/RFID tags and object recognition.

**Implementation tip:** Incorporate moving elements in the design of the content to attract attention and invite shoppers to interact with the display. **Beiersdorf** incorporated a 'floating menu' across its







three metre long multi-user videowall to highlight the features of its **Eucerin** product range and inform shoppers where to tap for more information.<sup>24</sup>

### 7. CUSTOMIZABLE TOUCHSCREEN APPS

One of the key learnings from the smartphone industry is that customers prefer user experiences that are native to the device they are using. This is clear in customers' preference for mobile apps over mobile optimised websites – a recent study found that 85% of all time spent on mobile devices are spent on mobile apps.<sup>25</sup>

Similarly, user interfaces designed specifically for touchscreen displays offer a richer, more intuitive experience for customers. Retailers thus find that they need to invest in development of touchscreen software in addition to the hardware itself. Eyefactive's specialized app store of ready-to-use touchscreen apps offer retailers a more affordable alternative.

Developed by specialists in touchscreen software, **multitouch apps**<sup>26</sup> work across various systems, including large-scale touchscreens, self-service kiosks, steles, touchscreen tables and videowalls. Touchscreen apps can be combined together to enable multiple features within an experience. They can also be customised, allowing retailers to integrate their own content and design. By streamlining the set up process, touchscreen apps enable easier and quicker implementation of retail technology in stores.

### 8. FACIAL RECOGNITION FOR RETAIL ANALYTICS

Brick and mortar stores lag behind e-commerce stores when it comes to data and analytics, often at their own expense. For example, **Amazon's** datadriven product recommendation engine has helped drive an estimated 35% of consumer purchases.<sup>27</sup>

Touchscreen analytics offer brick and mortar stores fresh insights into the type of product information seek and the time spent with each product. When touchscreen data is combined with facial recognition tools, retailers can access an even deeper layer of in-store insights.

Facial recognition helps identify when a new customer engages with a touchscreen and can determine the amount of time – and number of "touch clicks" – the average customer engages in. As a standalone tool, facial recognition can track (to





some degree of accuracy) the number of customers in a store, their age, gender and more. In Australia, digital billboards in **Westfield** shopping centres use cameras to track the reactions of passers-by to digital ads.<sup>28</sup> In the United States, **Walmart** is testing the use of facial recognition to gauge customer's moods, to help the company improve the in-store shopping experience.<sup>29</sup>

Implementation tips: Make use of facial recognition tools in a way that respects customer consent and privacy concerns. As part of its pilot program using facial recognition at self-ordering kiosks, CaliBurger asks customers for their consent in exchange for loyalty rewards.<sup>30</sup>

### **SMARTPHONE INTEGRATION** 9

Touchscreens help retailers avoid the need to develop dedicated mobile apps for Apple, Android and Windows interfaces. Not only does this save on development costs, it also helps retailers avoid the marketing costs associated with promoting app installs (a fundamental requirement of proximity marketing and beacon technology <sup>31</sup>).

A more cost-effective way to integrate smartphones in a cross-channel experience, is to use the phone as a checkout tool. For example, retailer **Zwilling** enabled customers to build a virtual shopping cart using interactive touchscreens, and then transfer the cart to their smart phones by scanning a QR code. This allowed customers to complete the payment privately and securely on their mobile phones.<sup>32</sup>

- <sup>14</sup> Polaris transforms retail experience with interactive digital signage, DigitalSignageToday.com
- <sup>15</sup> How quiz drives promotions, engagement and sales through using digital in-store, WBR Insights
- <sup>16</sup> Reasons why your restaurant needs self-service kiosks, *appetize.com*
- <sup>17</sup> McDonald's to add self-order kiosks to 1,000 stores each quarter, CNBC
- <sup>18</sup> Digital and delivery McDonald's growth accelerators that are paying off, *Diginomica*
- <sup>19</sup> Gartner says 100 million consumers will shop in augmented reality online and in-store by 2020, Gartner
- <sup>20</sup> Burberry Regent Street pilots interactive technology, *Campaign*
- <sup>21</sup> Five retailers using NFC and RFID to enhance shopping, *Econsultancy*
- <sup>22</sup> BMW deploys touch screen object recognition for interactive event, eyefactive
- <sup>23</sup> Touchscreen App Store: Compare Objects, *eyefactive*
- <sup>24</sup> Seamless multitouch wall with product recognition for Beiersdorf, *eyefactive*
- <sup>25</sup> 2019 Global State of Mobile report, *Comscore*
- <sup>26</sup> multitouch-appstore.com, *eyefactive*
- <sup>27</sup> How retailers can keep up with consumers (2013), *McKinsey*
- <sup>28</sup> Are you being scanned? How facial recognition technology follows you, even as you shop, The Guardian
- <sup>29</sup> Do the benefits of using facial recognition in retail outweigh the risks?, *Retail Wire*
- <sup>30</sup> Facial recognition software comes to loyalty, *Retail Wire*
- <sup>31</sup>The 6 disadvantages of using beacons for proximity marketing, *PocketStop*
- <sup>32</sup> Award-winning pos software solution for Zwilling, *eyefactive*





# **BEST PRACTISES ON IMPLEMENTATION**

Interactive digital signage has come a long way over the years, and can be very straightforward to set up. With years of experience helping retailers with digitise their operations, eyefactive has found the below four steps are crucial when planning a customer experience strategy.

**1. UNDERSTAND THE LANDSCAPE** Learn about the technologies available to retailers, and the benefits of each product.

2. DEFINE THE NEED Start with the end in mind: identify what you want to achieve, taking into consideration the specifics of your store, your products and your target audiences.

3. START SMALL, GROW BIG

First, determine if you want to work with multiple partners or one partner for the hardware, software and service components of the project. Experiment on a small scale and then scale up operations. A simple set up only requires a touchscreen, a media

player and an app that can help you integrate your content. As you grow more confident, incorporate touch-led experiences, combine apps and layer features to deliver a richer customer experience.

### 4. ANALYSE AND OPTIMISE

Make the most of touchscreen analytics – evaluate early learnings and optimise the experience to ensure you achieve the right retail ROI.







# READY FOR TAKE-OFF

Market conditions have created a perfect storm for interactive digital technologies with wider adoption expected in the months to come.

Growing competition from e-commerce and positive results from early adopters of retail technology, have shone the spotlight on in-store customer experience. Recently, retailers prioritized investments in digital store tech, omni-channel marketing, advanced data and analytics and personalisation.<sup>33</sup> With a mature ecosystem of service providers and exploding demand from customers for a multi-channel shopping experience, we expect to see retail technology become more popular around the globe in 2021 and beyond.



<sup>33</sup> Hot or hype: The top retail tech investments for 2019, Forrester





### TOUCHSCREEN HARDWARE

Various MultiTouch Screens, Tables, Kiosks or Videowalls in any size or format.



### TOUCHSCREEN SOFTWARE

Customizable multitouch apps from the world's first dedicated app store for large-scale touchscreens.



### **TOUCHSCREEN TECHNOLOGIES**

Innovative technologies like object-recognition, payment, scanners and video retail analytics.



### **TOUCHSCREEN SERVICES**

From expert consultation, to cloud-based content integration and system administration.



# **TOUCH FUTURE.** TOGETHER.





# Coeyefactive interactive-systems



