

INSIGHTSREPORT

Aut mation

As consumer preferences continue to evolve, retailers must leverage automation to stay agile and responsive to changing market dynamics.

What are the challenges they will face and where should they focus?





Retail has experienced significant changes in recent times, accelerated further by the challenges brought about by the COVID-19 pandemic, which forced businesses to embrace innovative solutions to meet shifting consumer demands. From streamlining operations to enhancing customer experiences, automation has become indispensable for retailers striving to remain competitive in today's dynamic market.

EXITING THE POST-COVID ERA

Physical stores have regained momentum in generating revenue, indicating a shift in consumer behavior post-pandemic. But the experience is not the same, as expectations have changed as well. Customers have become more accustomed to digital channels, leading to a seamless transition to a phygital model.



For example, technologies such as NFC/wallets have facilitated streamlined and fast payments, enhancing the in-store experience for both customers and retailers.

The new customer journey

ROUTE 1

The customer searches for an item online and compares prices.

- The product is in stock ·····
- · The product is out of stock
 - The customer searches for other stores or

ROUTE 2

The customer visits the store to buy or test the product

- The customer can't find the desired
- The customer picks the product and moves to the payment
- There is a large queue, and the
- :--- The customer uses a self-checkout point or pays via mobile POS terminals held by the staff and completes the purchase
- :.. The customer can't find the desired product, but can order the item for home delivery

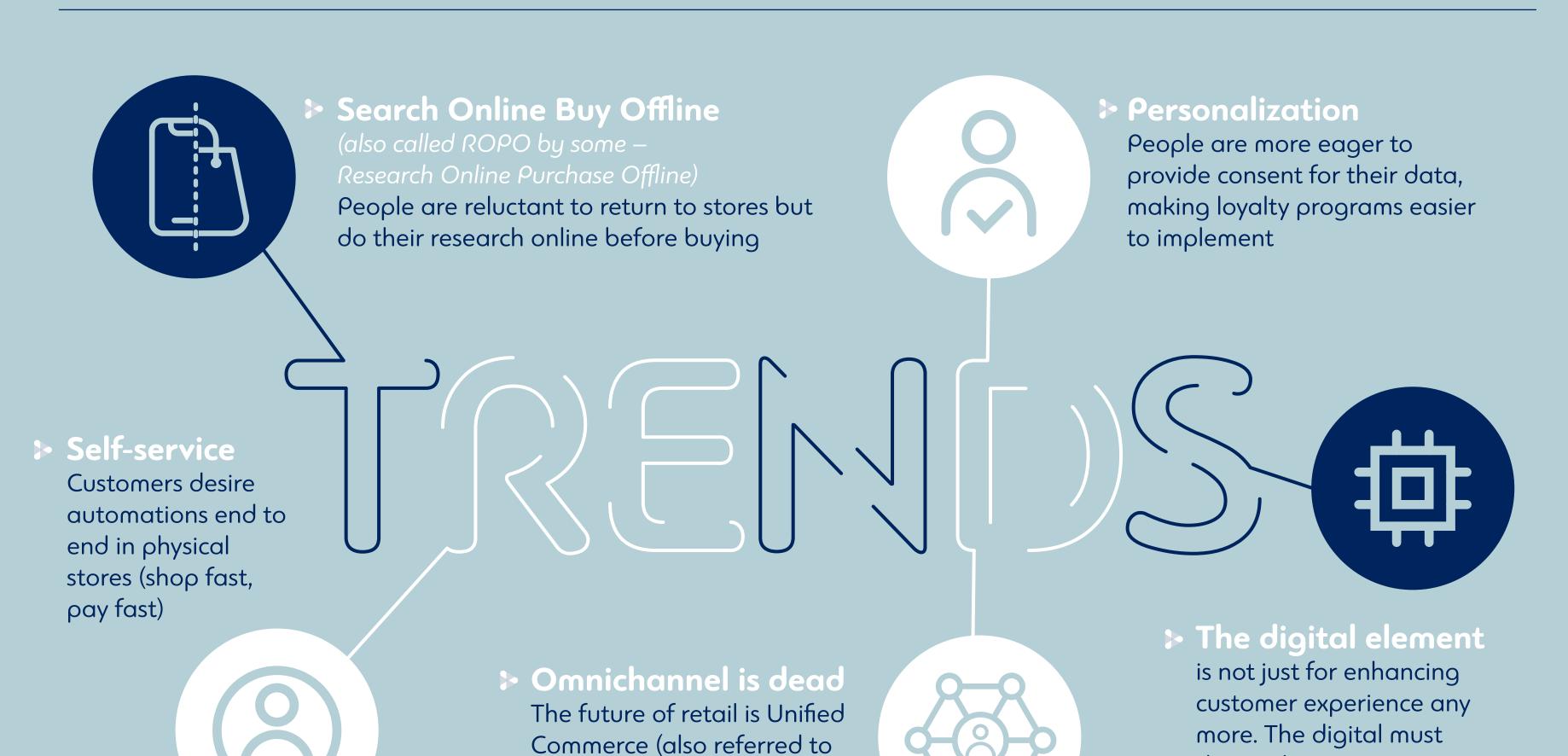
ROUTE 3

The customer places an order online to avoid losing time in commuting

- ·· If limited delivery
- :.. If flexible delivery hours or box lockers are offered as delivery options, the customer is more likely to complete the purchase



EXITING THE POST-COVID ERA



as harmonized commerce)

drive sales.



EXITING THE POST-COVID ERA

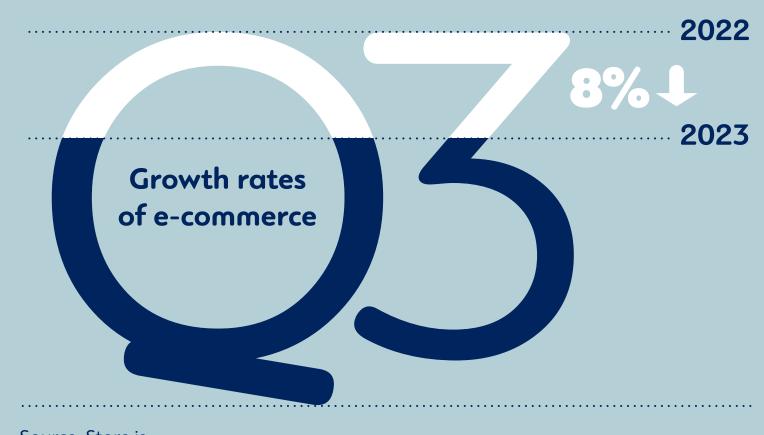
The Challenges:



- Despite the digital adoption, there remains a significant segment of customers, particularly in rural areas or older demographics, who prefer physical interactions, highlighting the importance of bridging the digital divide.
- As people search online, when the items they look for are out of stock, they refrain from visiting the stores.
- > Strategies to encourage digital adoption include implementing in-store kiosks and educating staff to serve as digital ambassadors, catering to different generational preferences.

E-commerce hangover

Growth rates of e-commerce in Europe are normalizing: in Q3 2023 for the first time, there is a decrease of -8% from the previous year, since the same quarter in 2022 averaged over-the-top performance with 32% growth.

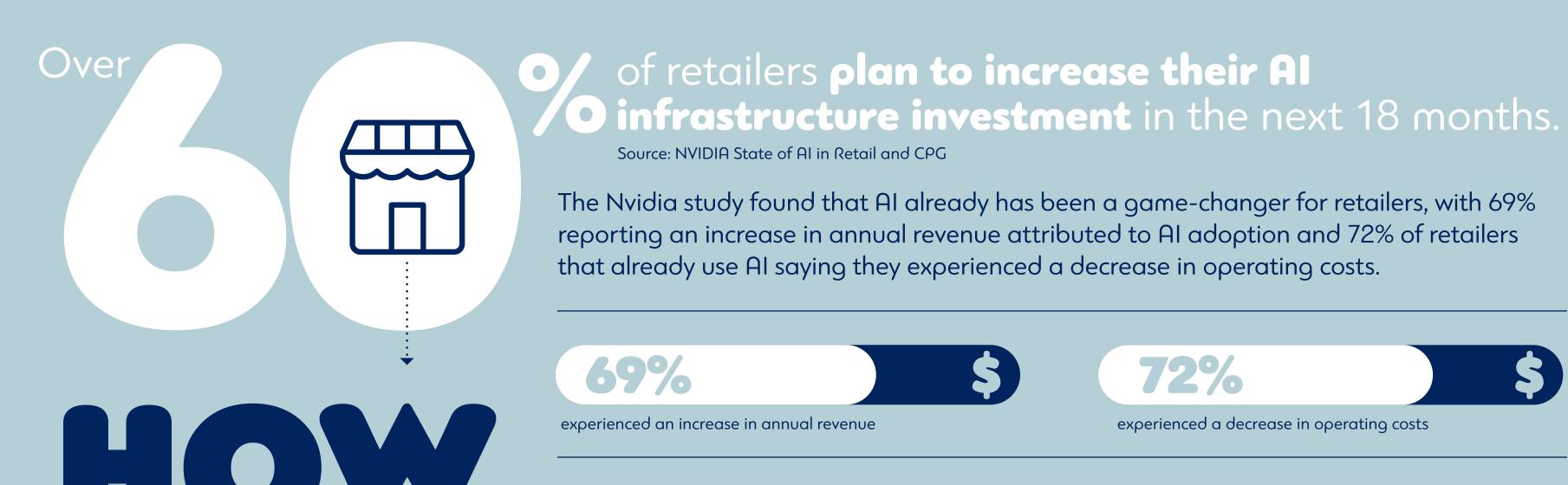


Source: Store.is

In 2023, shoppers said they made 49% of transactions in physical stores

Source: Salesforce





can retailers utilize automations and Al?

The role of artificial intelligence in retail extends beyond customer support to driving sales and enhancing personalized experiences.

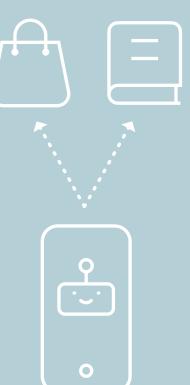
Chatbots and language models have emerged as essential tools for engaging customers and improving

operational efficiency. Al helps in building realistic conversations and coherence in customer journeys, creating more human-like interactions.

Internally, virtual bots aid in employee training and improve organizational processes,

emphasizing the value of AI beyond customer-facing applications.

Data privacy and security remain critical considerations in Al adoption, requiring organizations to prioritize training models in secure environments to avoid potential risks.

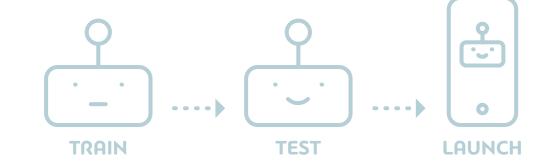






Experts' insight:

The merits and perils of AI Chatbots



Chatbots trained with machine learning and AI technologies are often the easiest way for companies to implement an AI-based project. Nevertheless, they don't come without risks and challenges. To minimize negative impact, ensure that before releasing the service to customers, it has been thoroughly trained and tested... A semi-final product will sabotage any future success.

When first launching, allow a test period before advertising the service as innovative and effective.

Alis not just for the retailers!



92% of retailers say they are investing in Al more than ever to improve shopping experiences.



Nevertheless, 17% of shoppers also say they've used generative Al to get inspiration for product purchases.

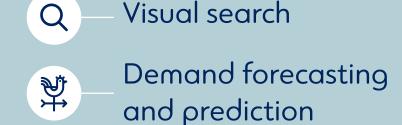
Store analytics 雷 and insights



ج **Conversational Al**

Stockout and inventory management





Visual search





 \odot Product quality inspection

Source: Salesforce





ebay

How the largest retailers use Al

eBay utilizes AI for customer advice and personalized recommendations, improved shipping and delivery times, pricing optimization, buyer-seller trust enhancement, and more.



Alibaba employs AI in diverse applications from augmented reality mirrors to facial recognition payment systems, including an Al copywriting product that generates content at a rapid pace using deep learning and natural language processing.



Amazon's Al technology powers voice shopping, personalized recommendations, facial recognition, home price estimation, visual search, autonomous driving, and various other innovative services.

Implementation challenges

Outdated technology

Data fragmentation

Retailers struggle with outdated systems, hindering seamless AI integration and scalability.

leading to subpar model training and insights.



Invest in infrastructure

Solutions

Prioritize updating tech infrastructure for seamless Al integration and scalability.

Talent shortage

The demand for AI experts and data scientists exceeds supply, making recruitment and retention challenging.





Siloed data across departments limits Al's effectiveness, Q 00 ...

Talent development

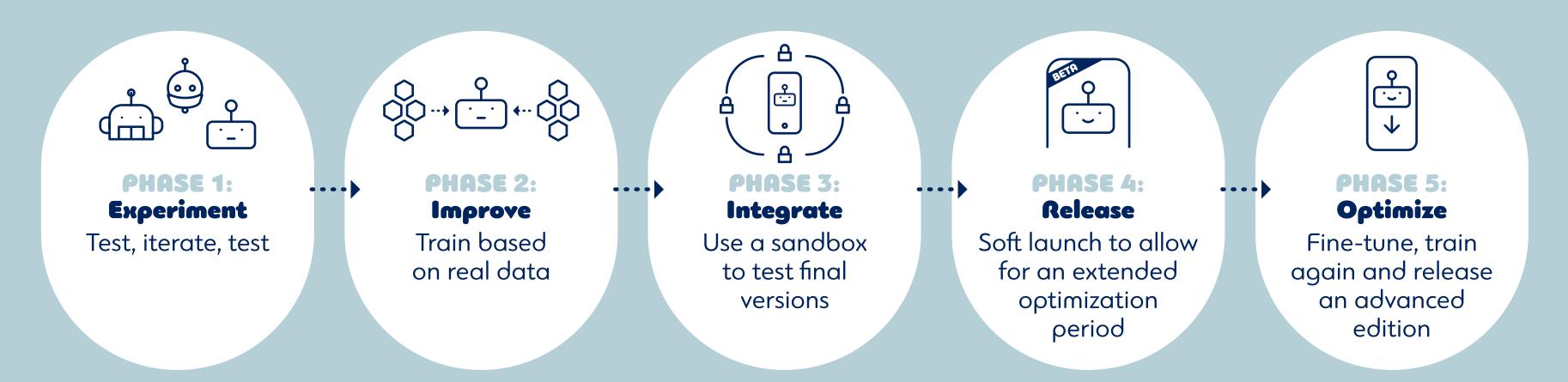
Establish programs to attract and retain AI experts, ensuring ongoing support for AI initiatives.

Streamline data access

Break down data silos and improve data quality for accurate AI model training and insights.



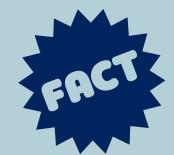
The Generative Al Maturity Journey



Use case:

Self-checkout cashiers

A great example of the use of automations in retail is the self-checkout systems. It has been proven that the installation of such systems may be expensive and even result in lost revenues due to malfunctions. Nevertheless, retailers see that customers are fond of having this option alongside traditional cashier options, and is especially effective for limited number of items.



74% of shoppers say it takes no more than three bad experiences to abandon a brand





TRANSITIONING TO THE FUTURE OF RETAIL

Technologies and changes needed

Technology stands as the cornerstone of robust supply-chain operations within the retail sector, driving efficiency and agility in response to dynamic market demands. The integration of automation technologies requires organizations to undergo internal transformations, necessitating investments and collaborations with startups to effectively integrate innovative solutions. Al, machine learning, and robotics have revolutionized tasks within fulfillment centers, streamlining processes and improving overall operational efficacy to meet the escalating needs of modern consumers.

THE AUTOMATION-ENABLED, OMNICHANNEL WAREHOUSE

The challenge	How technology solves it	
INEFFICIENT INVENTORY MANAGEMENT	Omnichannel warehousing allows for centralized inventory management, reducing stockouts and overstock situations	
MEETING EVOLVING CUSTOMER DEMANDS	Retailers adopt automation software to fulfill orders from various channels, meeting customers' preferences for convenience and fast delivery	
SEAMLESS INTEGRATION ACROSS CHANNELS	Omnichannel warehousing integrates online and offline channels, providing a seamless shopping experience for customers and improving operational efficiency for retailers	

Experts' insight: Centralization vs. Decentralization

In the world of retail, centralization can be a good thing. Costs, speed, and efficiency can be optimized when decisions are made centrally instead of locally. Retail experts say that a centralized, automated system that analyzes data from all stores of a retail chain can better predict their supply needs better than their store managers! Another trend that is becoming bigger in the retail industry is the Marketplace. Experts believe that it will be an option retailers won't be able to ignore soon.

Removing logistics bottlenecks with automation

Third-party logistics (3PL) providers are some of the first adopters of artificial intelligence technology in retail. From autonomous robots to data analytics that determine the best routes for delivery, 3PL providers may offer complete solutions to companies that are unable or unwilling to run their own order fulfillment services. As customers have embraced online shopping and next-day delivery options, an order that is not fulfilled in time or with efficiency may result in a lost customer.



OPEN INNOVATION IN RETAIL

Strategies for Open Collaboration with Startups

Embracing open innovation by collaborating with startups allows retailers to tap into diverse expertise and fresh ideas. This approach goes beyond traditional in-house innovation, offering access to a broader spectrum of creativity and problem-solving capabilities. By engaging with startups, retailers gain the advantage of speed and agility in implementing cutting-edge solutions.

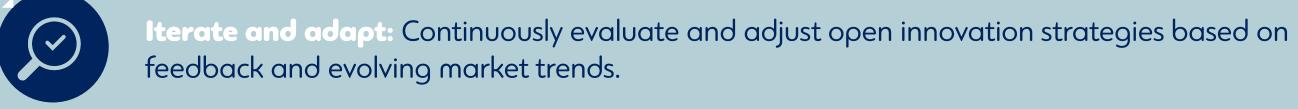


Embrace the startup ecosystem: Establishing a network of startups that align with retail needs can provide a pool of innovative solutions. An innovation Hub to bring together various parties involved is a good place to start.

Invest in accelerator programs: Funding and supporting accelerator programs can nurture startups and drive innovation, especially in specific directions that concern real market needs.

Partners in innovation: When partnering with a startup, aim for cross-pollination. Promote collaboration between internal teams and startups to foster idea exchange and innovation. Establish a clear governance and ownership strategy, but leave plenty of room for novel ideas and the founders' vision to flourish.

Invest in the ecosystem: Establish a Corporate Venture Fund or become an investor in startups from diverse backgrounds and industries to bring fresh perspectives to retail challenges.





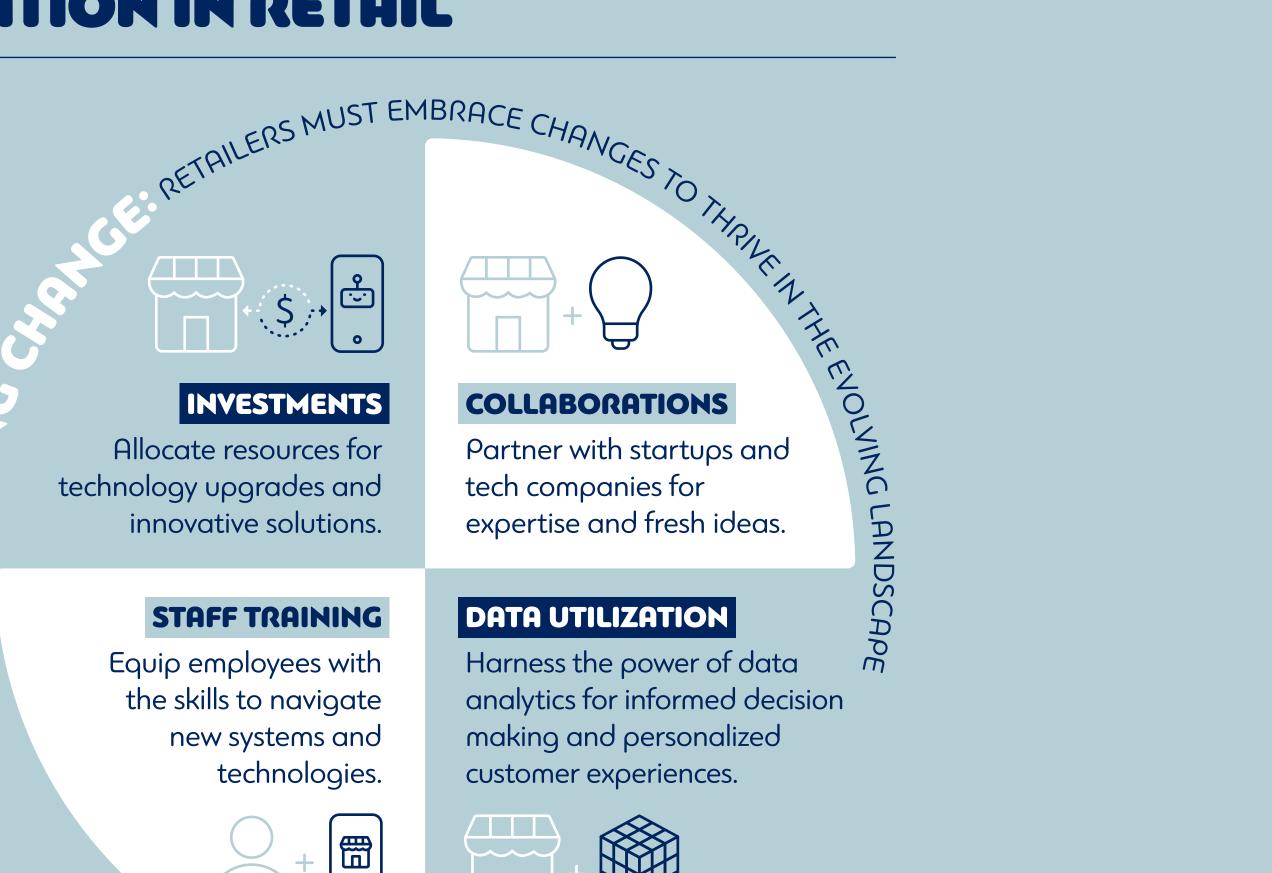


OPEN INNOVATION IN RETAIL

Benefits of Open Innovation

There are many benefits deriving from a successful co-existance and co-creation with startups. Here are some of the ones the experts value the most:

- Access to specialized expertise: Startups often specialize in specific areas, offering deep expertise in particular technologies or market segments that may be beneficial to retailers.
- Agility and speed: Large companies are slow to innovate, but startups are known for their agility and ability to adapt quickly. Retailers can leverage this speed to test and implement innovative solutions faster than traditional development cycles.
- Cost efficiency: Collaboration with startups can be cost-effective compared to in-house development of similar solutions. Startups may offer flexible pricing models or partnerships that align with the retailer's budget and goals.
- Fresh perspectives: Startups bring fresh perspectives and creative approaches to problem-solving. This diversity of thought can lead to breakthrough innovations that set retailers apart from competitors.







KEY TAKEAWAYS

- The shift towards phygital models in retail, where physical and digital experiences converge, reflects an evolving consumer landscape post-pandemic.
- Artificial Intelligence is not only enhancing customer interactions but also optimizing internal operations, demonstrating its multifaceted value in retail.
- Retailers' investments in digital solutions, such as omnichannel strategies and advanced technology integration, position them to meet evolving customer needs with agility.
- Collaborating with startups and fostering open innovation creates a culture of creativity and flexibility, enabling retailers to stay competitive in a rapidly changing market.

THE TRENDS	THE CHALLENGES	THE SOLUTIONS
Search Online, Buy Offline	When items are out of stock online, people don't visit the physical stores	Omnichannel warehouses
Digital Privacy	Data collected in stores are anonymous in their majority	Use IoT solutions like beacons to collect useful data
People return to stores	In-store transactions are often anonymous and not contributing to data analysis processes	The customer journey must include a digital interaction at some point.
The digital divide	A large percentage prefer the physical interactions, especially in rural areas	Info kiosks inside stores are resource-heavy for retailers but customers need to be trained. The staff take on the role of educators.
Self-service model	People demand fast and streamlined experiences in store (shop fast, pay fast). Customers react to complexity.	Automations like self-checkout cashiers may still be expensive for retailers but customers like the convenience. Android POS terminals offer fast payments from anywhere in the store.
Flexible pick-up	People expect to receive their items in the most convenient way for them, not caring whether their order will travel a long distance or not	Omnichannel warehouse automations increase availability of products regardless of the distance. Box lockers gain great momentum among consumers.
Omnichannel is dead. What comes next?	To offer a convenient, intuitive, cohesive and personalized shopping environment for customers	Commerce becomes channel-agnostic. The data is key: effective collection, management and real-time analysis can help even in the case of black swan events like the pandemic.





About



Cardlink, a Worldline company, is active in the field of electronic payments and especially in the acceptance and management of card transactions, both in physical and e-commerce. The company operates the largest network of POS terminals in Greece, serving with safety and speed businesses and consumers in carrying out their daily transactions.



The Retail Innovation Hub by Cardlink is a regional platform with the ambition to facilitate the evolution of retail in the digital era. It is created by Cardlink, the biggest provider of electronic payments solutions in Greece, and the innovation experts of Found.ation. It is a place where retail experts and technology leaders shape the future of the industry, exchange knowledge and insights, learn how to adjust to the digital transformation landscape and keep up with the latest developments.

Leaders Think Tank Vol.3

Automation has been transforming the business landscape across all sectors, including retail. This event aimed to bring together a select group of executive members from the Greek corporate ecosystem for a comprehensive exploration of the intersection between cutting-edge technologies and the retail industry. It was an engaging discussion where leaders from the retail industry came together to offer their perspectives and expertise on Automation in Retail. The goal was to encourage active participation from everyone in the discussion and to collectively explore the realms of machine learning, computer vision, robotics, and payments/logistics, shedding light on the transformative potential of automation within the retail sector.

Co-Hosts

Antigonos Papadopoulos Chief Executive Officer, Cardlink Nikos Varvadoukas, Vice President Brand, Customer & Omnichannel, Public Group

Moderator

Filippos Zakopoulos Managing Partner, Found.ation

Participants

Vaggelis Atherinos, Chief Growth Officer, Avis Greece
George Avgoustidis, Co-founder, Skroutz
Dimitris Destes, Mobility BU Director, Info Quest Technologies
Stelios Mantas, Partner, Deloitte
Panos Milias, Digital Acceleration Manager, Nestle Greece
Costis Paikos, Director of Digital, OPAP
Katia Stathaki, Consumer Commercial Director, Vodafone Greece