



The Future of Retail and Modern Risk Management

Tony D'Onofrio

**What does the
Future of Retail
And
Self-Checkout
Look Like?**



Agenda:

10

Quick Trends
Changing
Everything



For MORE Visit www.tonydonofrio.com

You are the **Leaders** to **Shape It**

World's Challenges

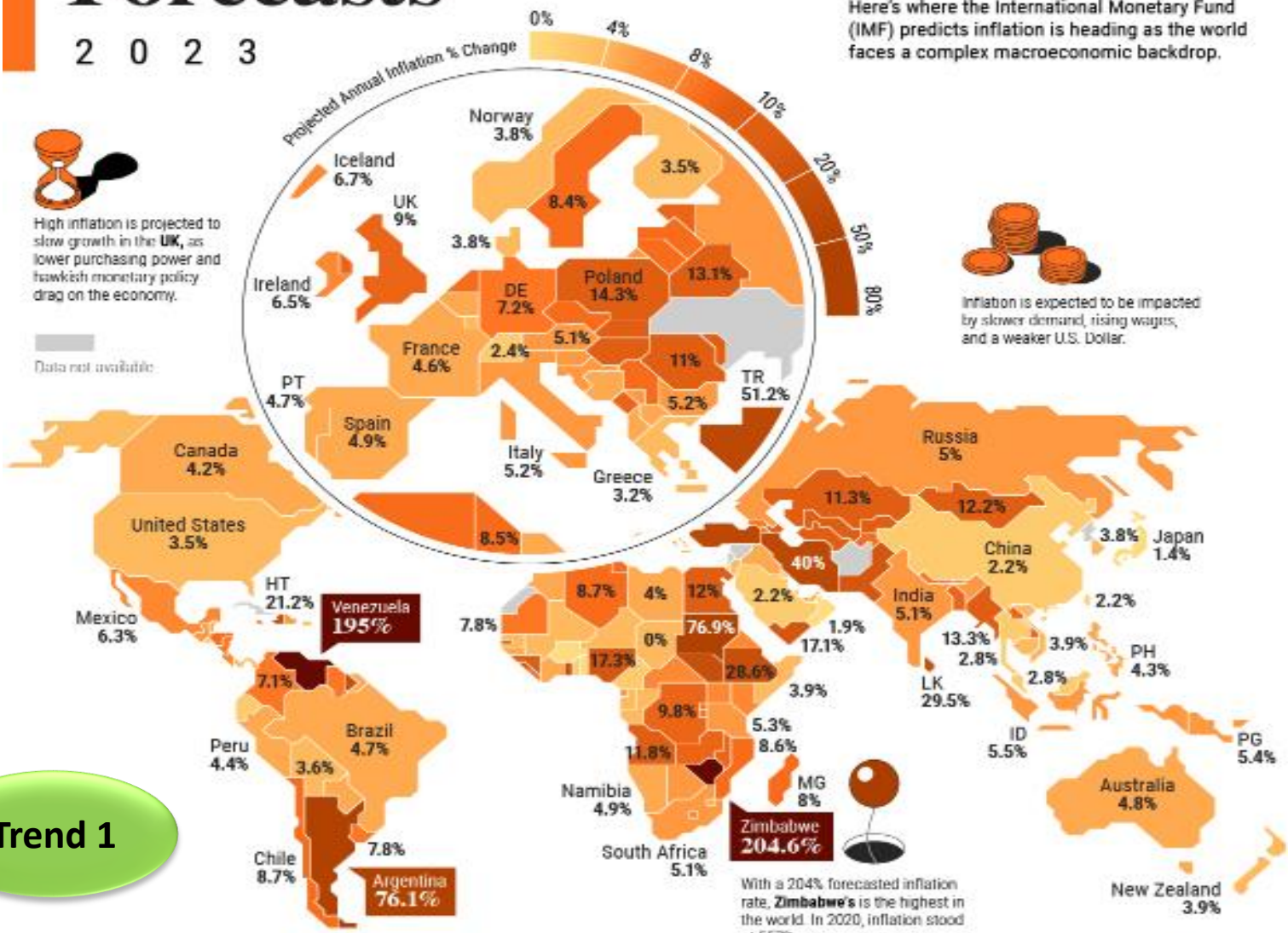
World GDP January 2023



Sources: IMF, Visual Capitalist

Inflation Forecasts

2 0 2 3



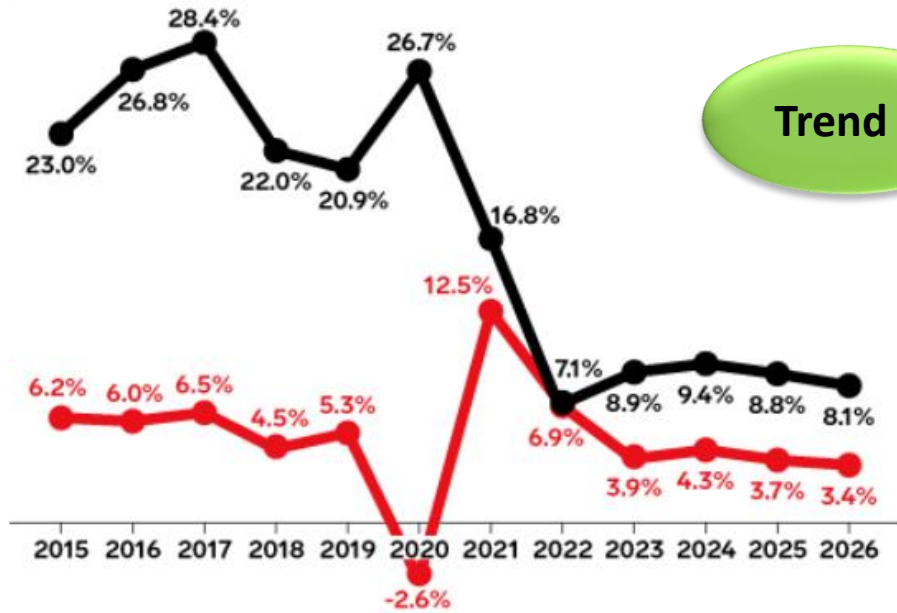
Trend 1



Global Retail Forecasts

Retail Sales Growth and Retail Ecommerce* Sales Growth Worldwide, 2015-2026

% change



Trend 2

■ Retail sales growth ■ Retail ecommerce* sales growth

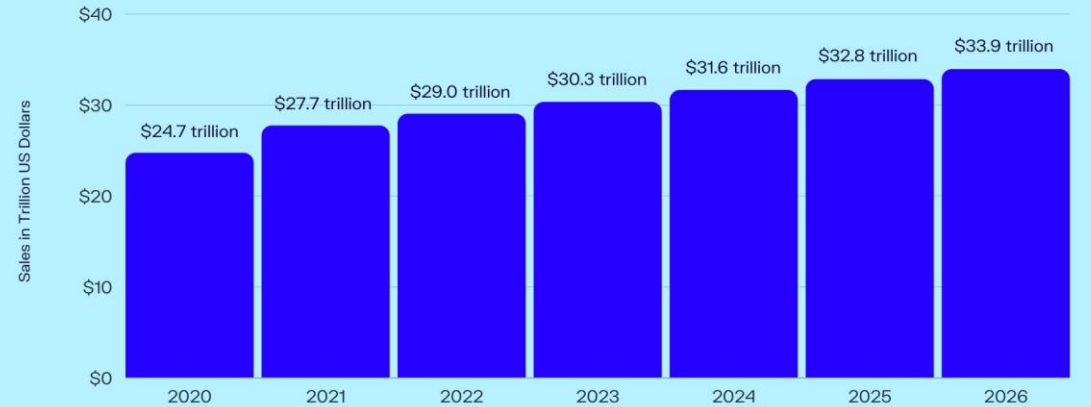
Note: excludes travel and event tickets, payments such as bill pay, taxes, or money transfers, restaurant sales, food services and drinking place sales, gambling and other vice goods sales; *includes products or services ordered using the internet, regardless of the method of payment or fulfillment

Source: eMarketer, Dec 2022

279964

eMarketer | InsiderIntelligence.com

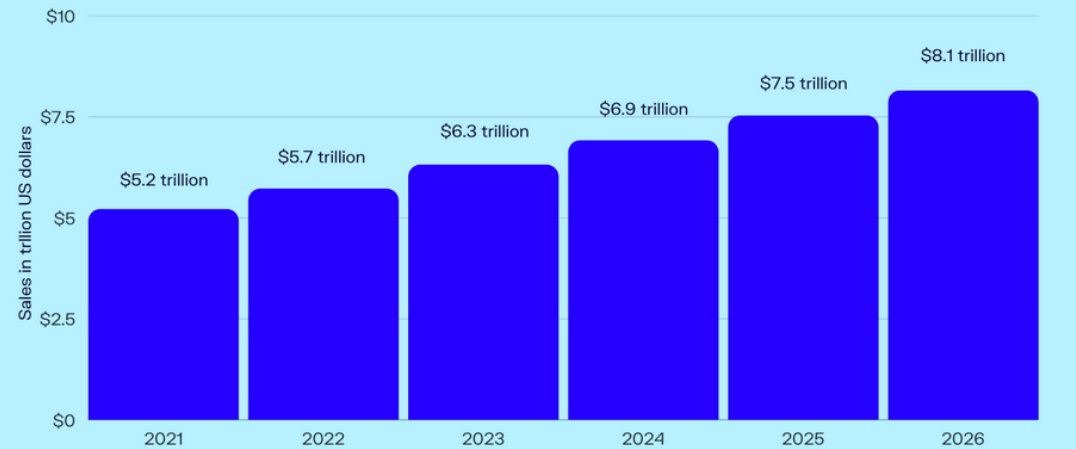
Total Retail Sales Worldwide (2020-2026)



Source: eMarketer

OBERLO

Global Ecommerce Sales (2021 to 2026)



Source: eMarketer

shopify

2022 Technology Lessons



Trend 3



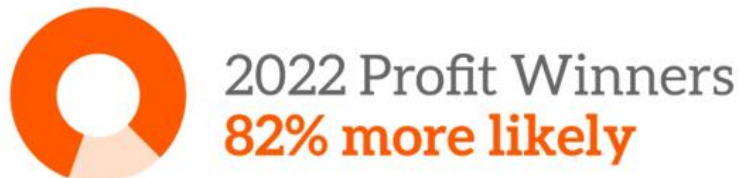
2023 Winning Retailers Top 5 Tech

Geo-Location

- 2022 Sales Winners investing in Geo-Location for 2023 at a rate **13x higher**.
- **64%** plan to use by 2025

Tools for Associates

Who is likely investing in better mobile tools for associates?



Electronic Shelf Labels

Most profitable retailers investing ESLs at a rate **12x HIGHER** than their competitors.



Mobile Check-Out

Who is likely letting customers check out with their phones at the store level in 2023?



LP Prescriptive Analytics

55% of Profit Winners plan to use Prescriptive Analytics for Loss Prevention by end of 2023.

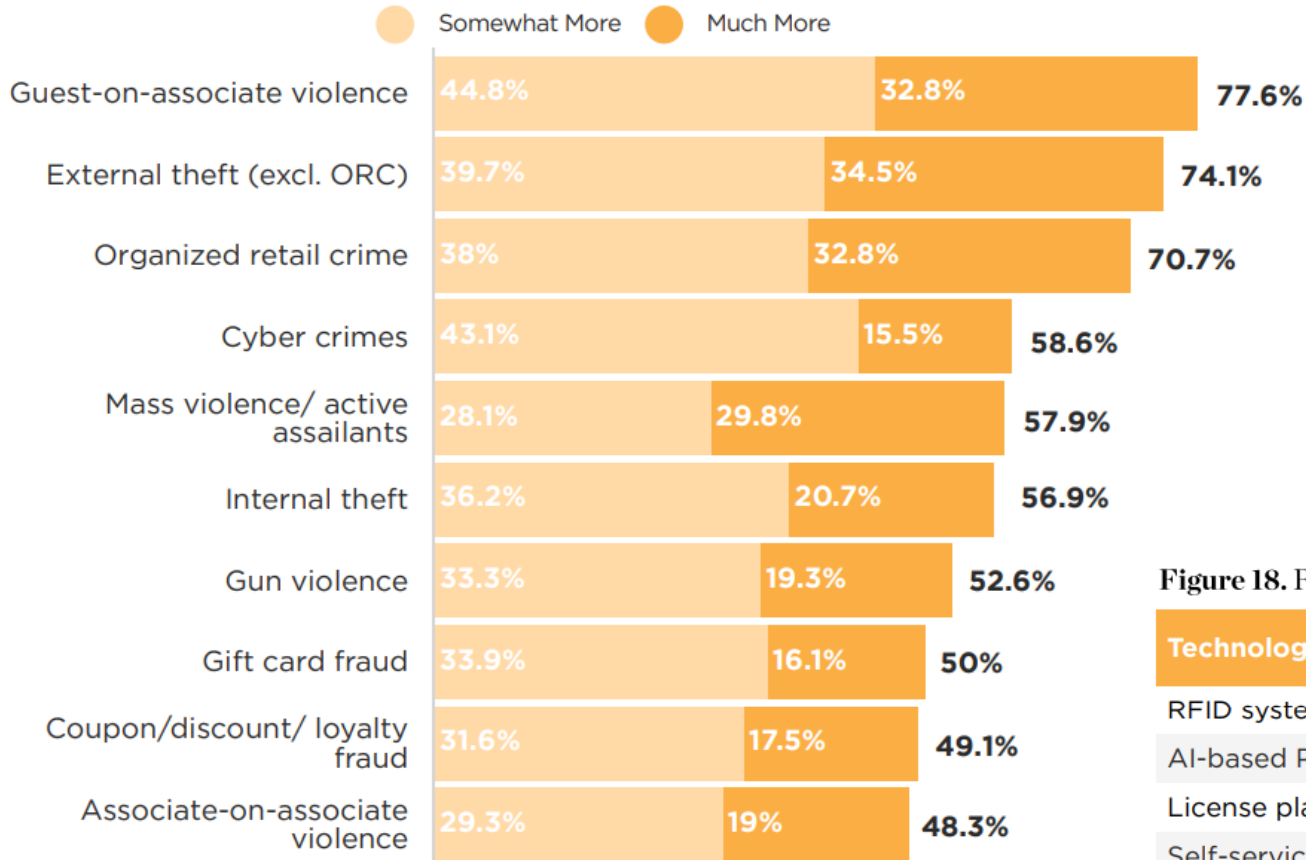


Trend 4

Source: IHL Group, 2023

Retail Security Concerns are Changing

Figure 12. Increase in Risk and Threat Priorities over the Past Five Years



Trend 5

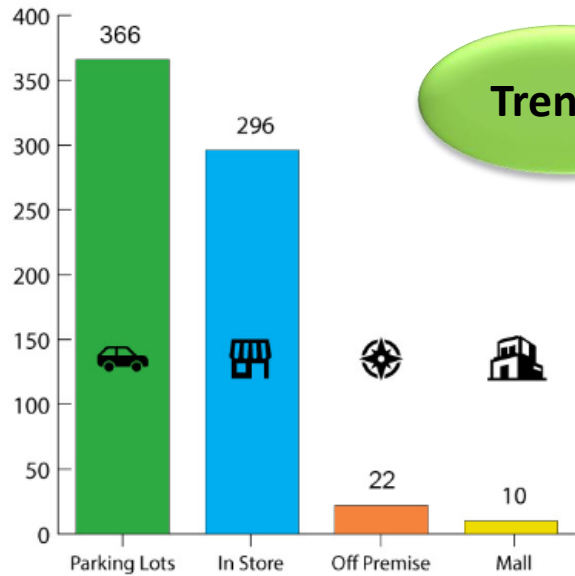
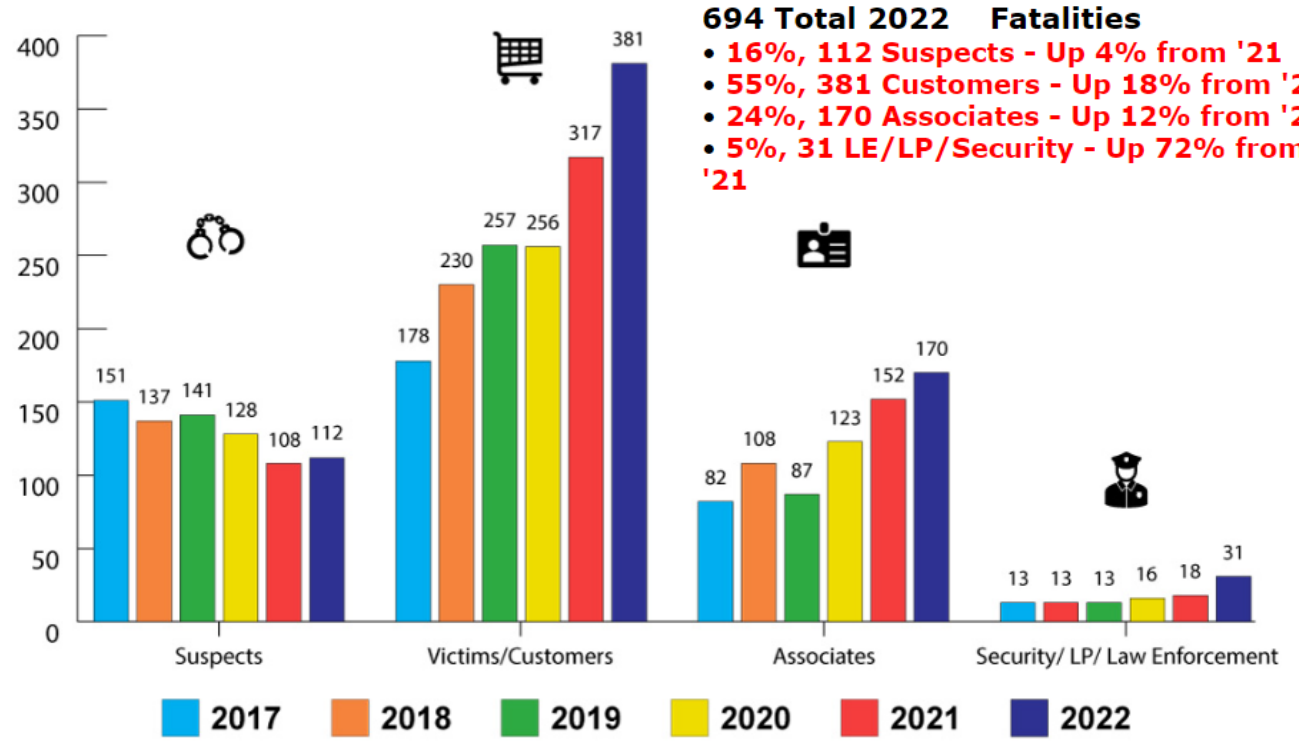
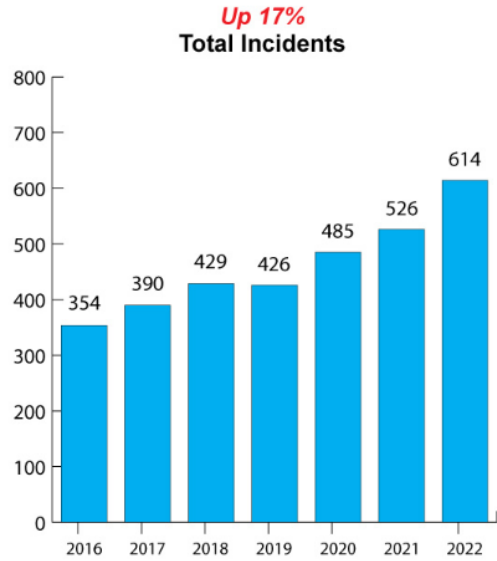
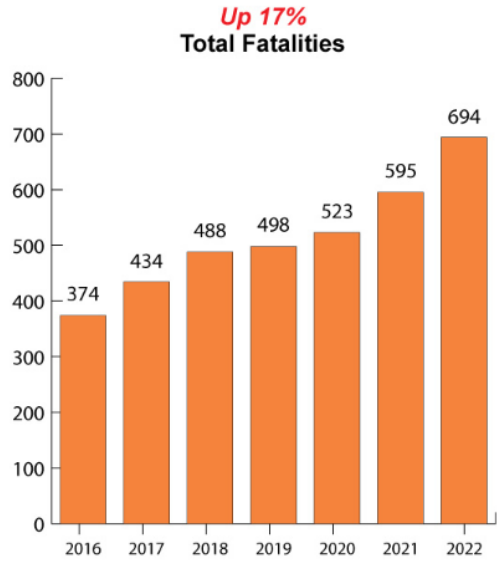
- ❖ 26.5% ORC Incidents increase
- ❖ 8 in 10 retailers report increased ORC violence



Figure 18. Retail Loss Prevention Technologies

Technology	Percentage Implementing or Planning to Implement
RFID systems	38.6%
AI-based POS/SCO video analytics	29.8%
License plate recognition	19.3%
Self-service locking cases or lockers	17.5%
AI-based perimeter surveillance	14%

USA Stores Getting More Violent

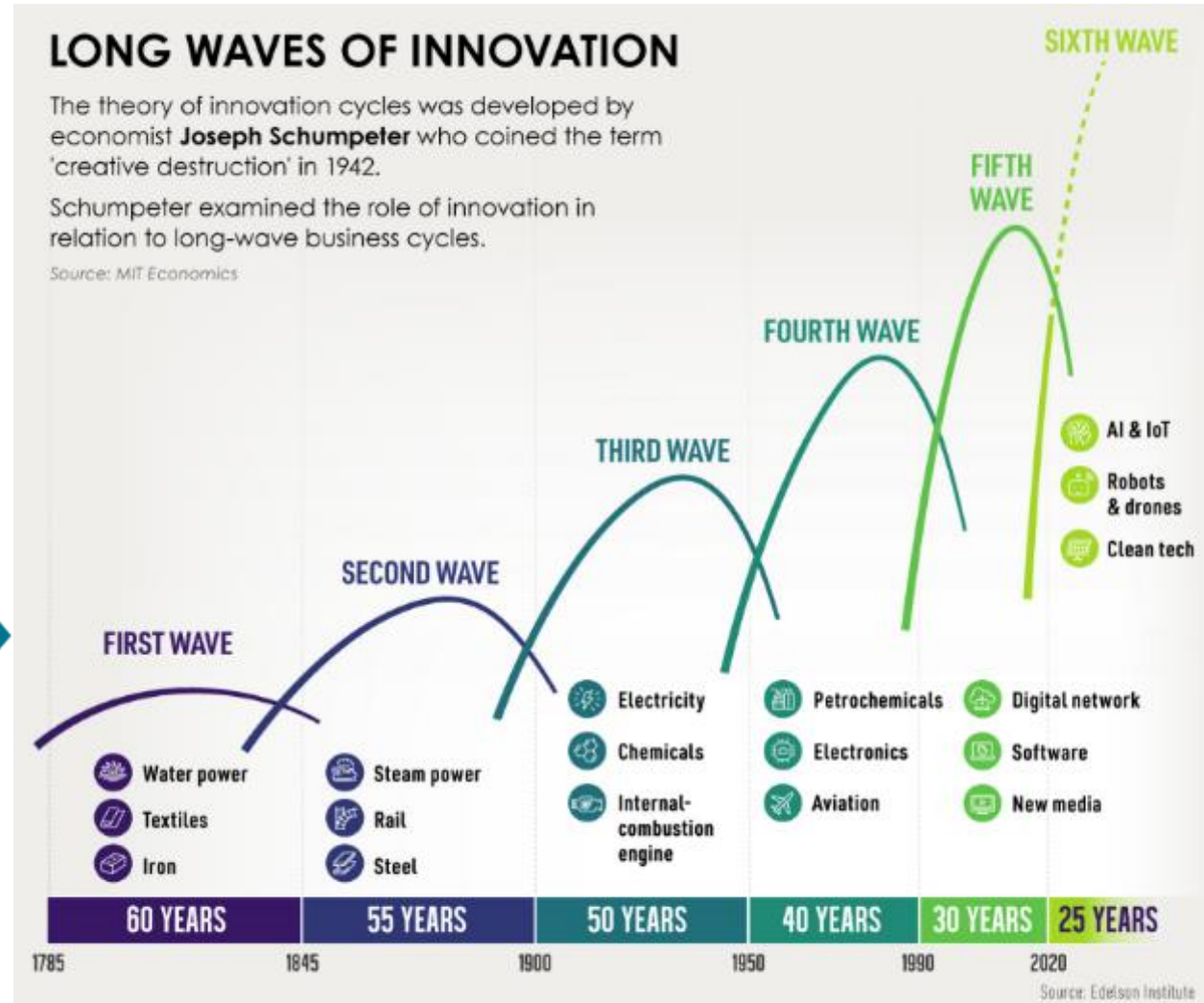


- 2022:**
1. C-stores (32%)
 2. Restaurants (19%)
 3. Gas Station (8%)
 4. Grocery (6%)
 5. Mall (5%)

Source: D&D Daily, 2023

Technology Trends are Accelerating

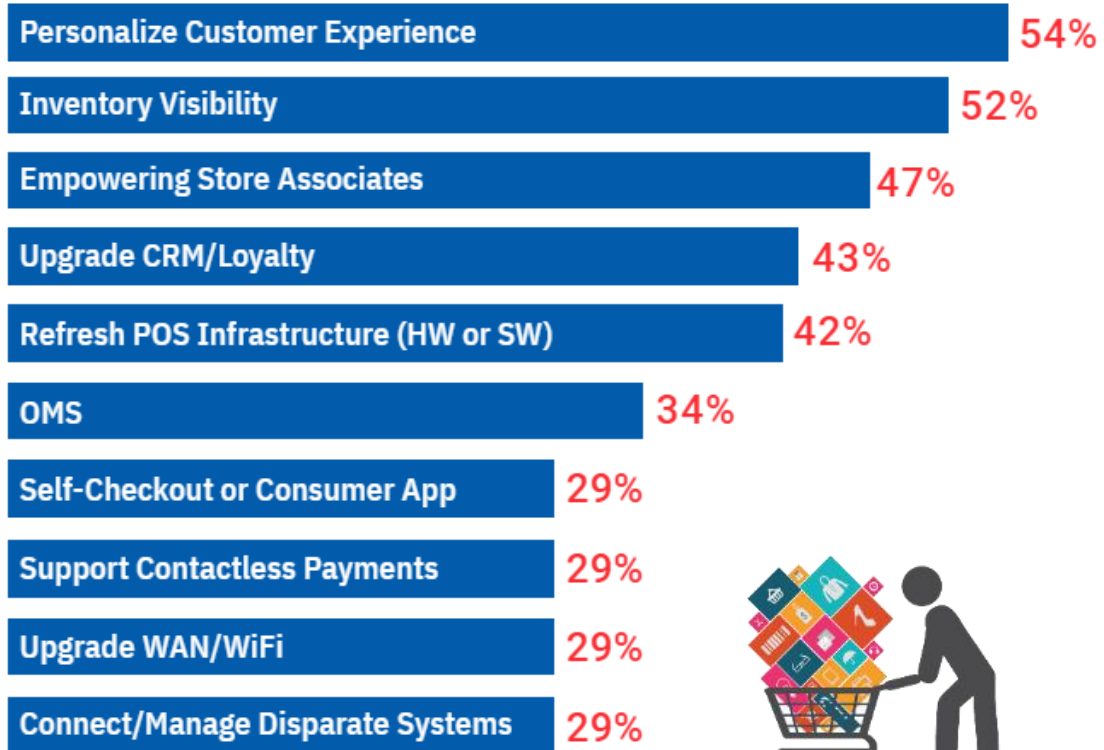
FIFTH WAVE
 In 1990, 2.3M used the internet—by 2016 this reached 3.4B.
 Source: World Bank



Source: Visual Capitalist 2021

Partnering with IT and Ops Priorities

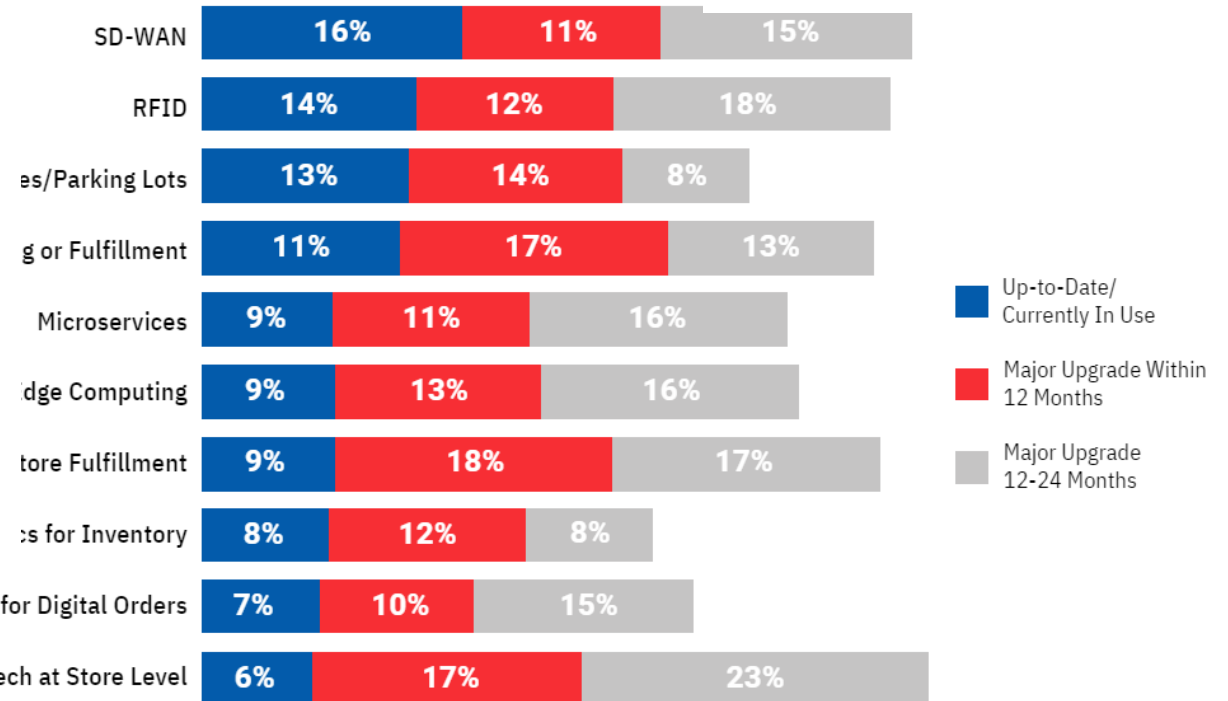
Top Tech Priorities for 2023



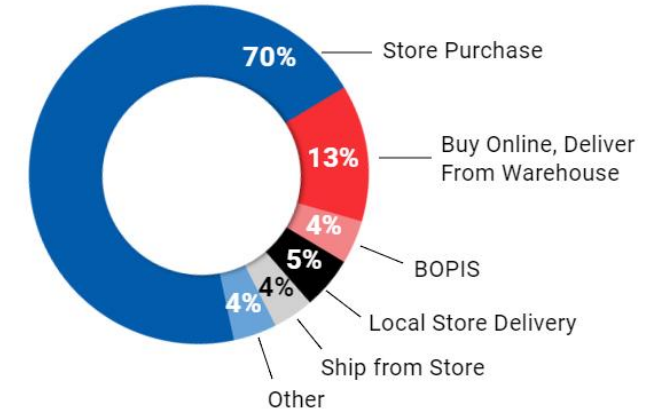
Second Location for Digital Orders



Emerging Tech Purchase Plans



Total Revenue Share by Customer Journey



Frictionless Commerce is Here to Stay

Shopping Process



Rates at Which Retailers Planning Frictionless Have Already Implemented Other Key Technologies



Edge Computing
273% Higher

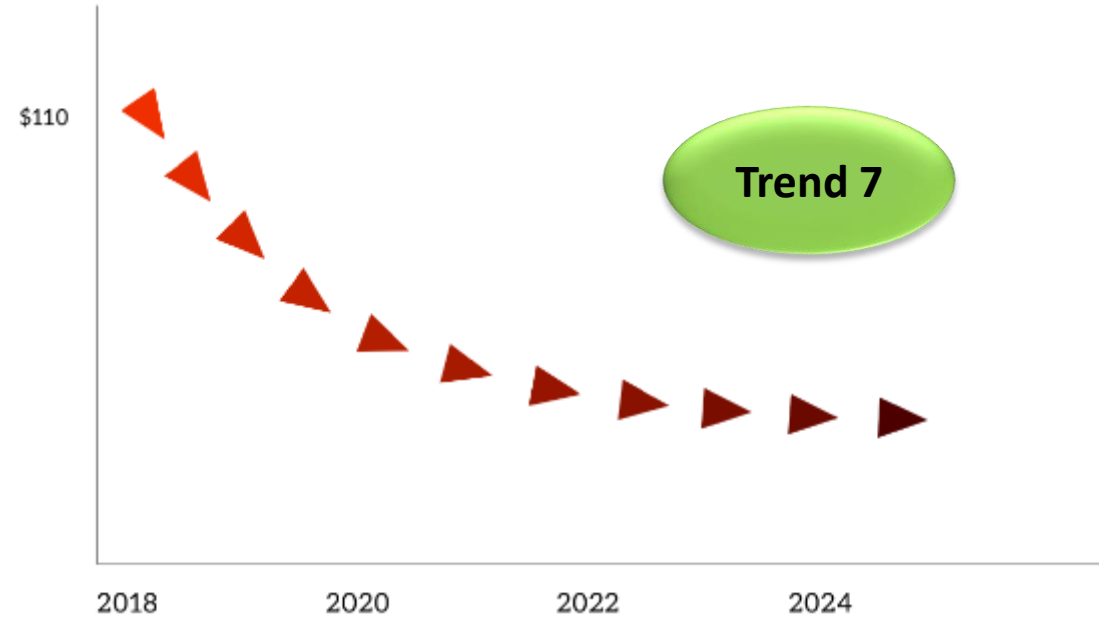


SD-WAN
146% Higher



Video Analytics
140% Higher

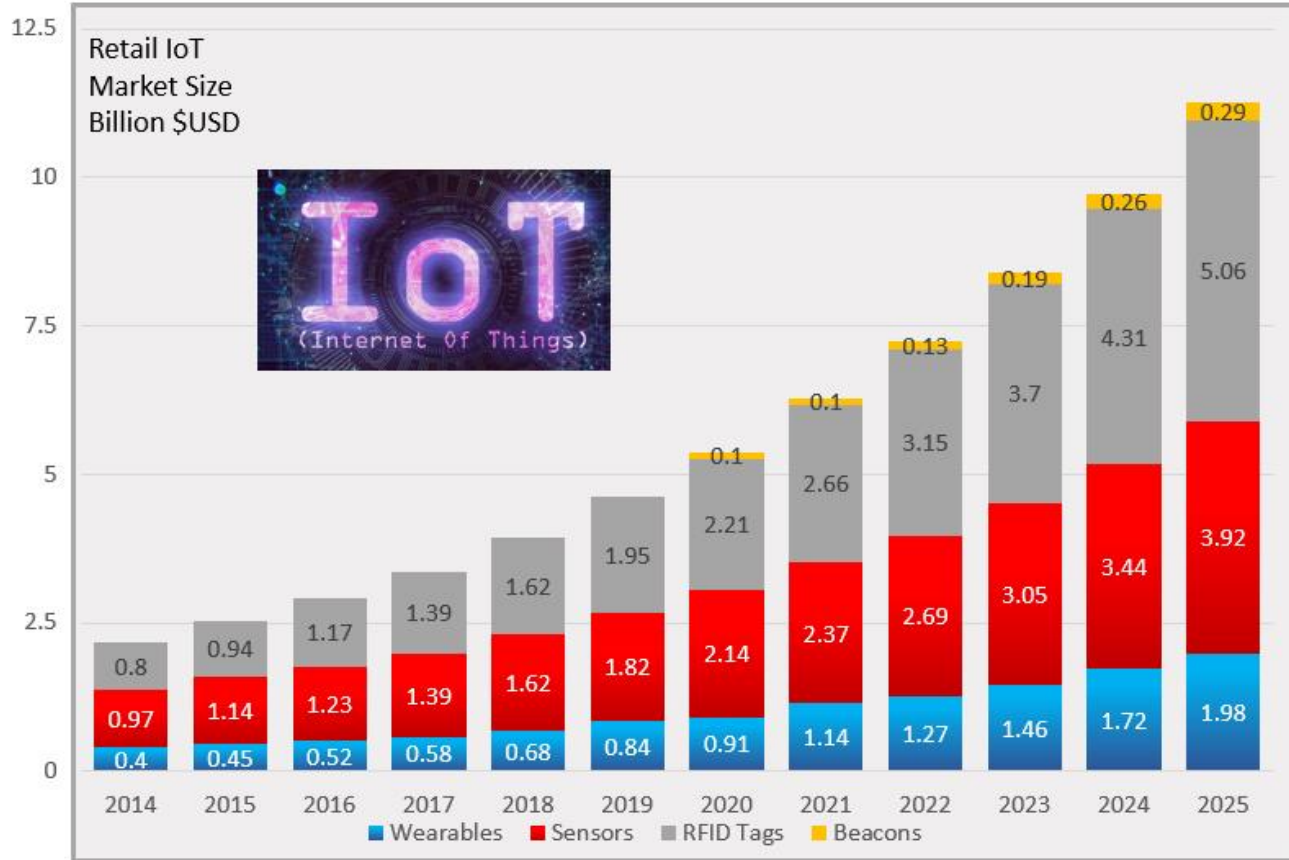
Cost of Frictionless Per Sq. Ft.



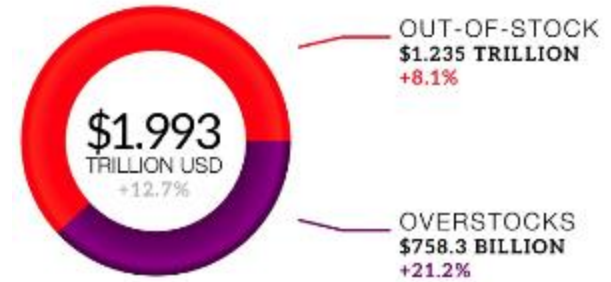
Removing loss prevention technologies can lead to losses of more than **3%** of annual sales.

More Sensors Are Coming

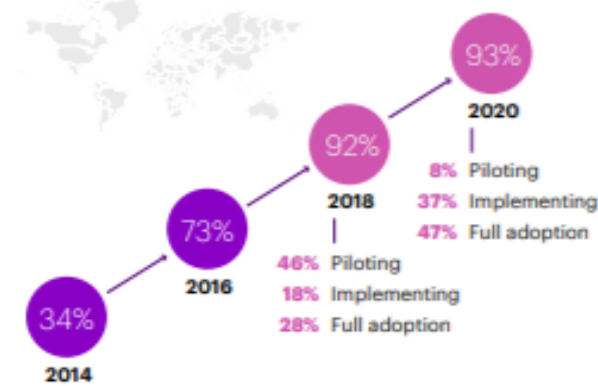
Trend 8



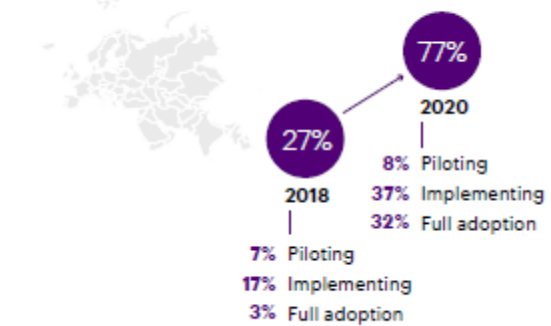
2022 Inventory Distortion



North American RFID adoption



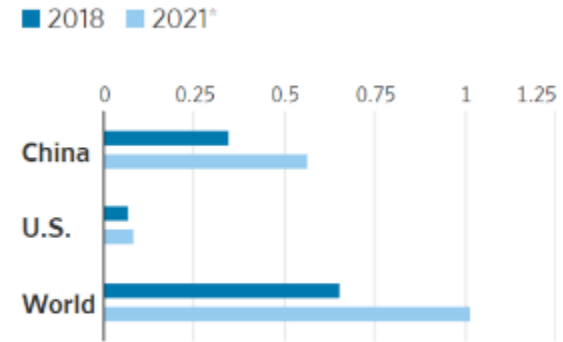
European RFID adoption



More Visual Stores Sensors



Installed base of security cameras, in billions



*Projection
Source: IHS Markit

Trend 8



Retail Loss Prevention is Being Disrupted



Cxx Focus

Brand Value Differentiation

Real-Time Consumer Loyalty

Immersive Unified Customer

Experiences

Smart Supply Chains

Trend 9

LP Cxx Moment

Brand Integrated Security / Video

Analytics / Machine Learning

Data / Visual Zone Deterrence

Prescriptive Data Analytics

Retail Crime Solutions

Trend 9

A July 2022 Time Magazine headline – ‘U.S. Crime Is Still Dramatically Higher than Before the Pandemic’ – was a reminder that police departments are overwhelmed.

- Next generation loss prevention tech solutions need to step up their pace in challenging retail shrink
- Improved legal boundaries need to be established around controversial solutions such as face recognition
- The Internet is breaking down borders where stolen goods can be sold. Over six in 10 retailers believe that a federal ORC law is required to address the challenges with professional thieves.
- Supported by tech, strong partnerships are required between retailers, law enforcement, industry groups, solution providers, and the federal government to address the ever-changing threats.
- Increased loss prevention education is also part of success mix.



Source: NRF2021, Tonydonofrio.com

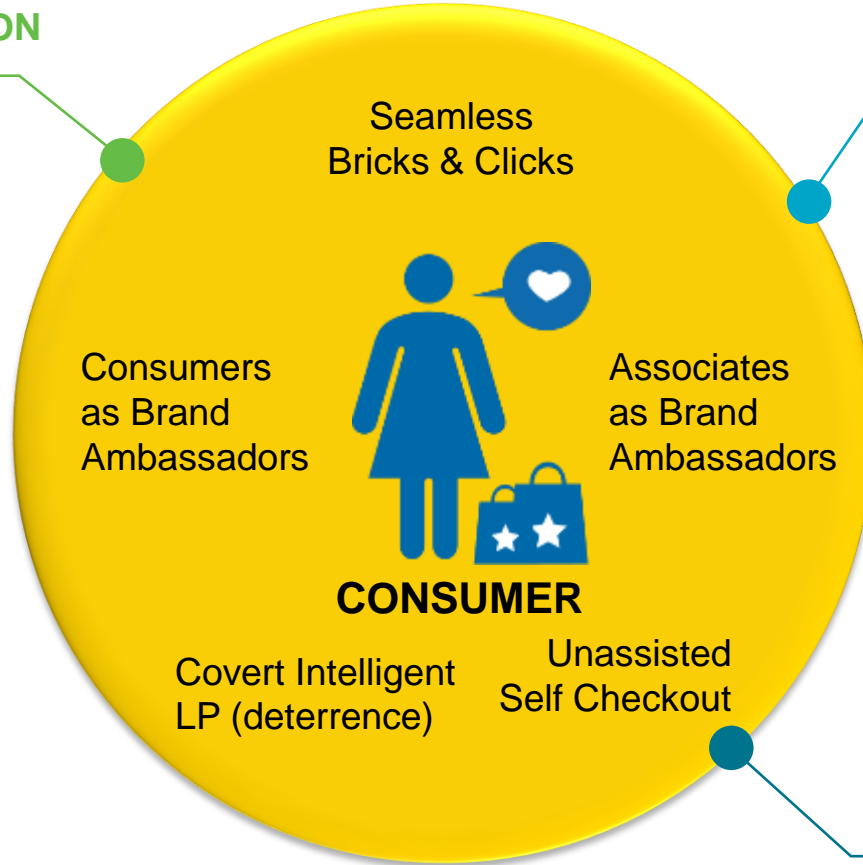
The SMART More Profitable Store of the Future



STORE DATA EXPLOSION

- POS
- Labor Scheduling
- Planograms
- Store Traffic
- Loyalty Programs
- Video
- RFID
- HVAC
- Internet of Things
- Beacons
- Wearables
- Robots
- GPS Tracking

Trend 10



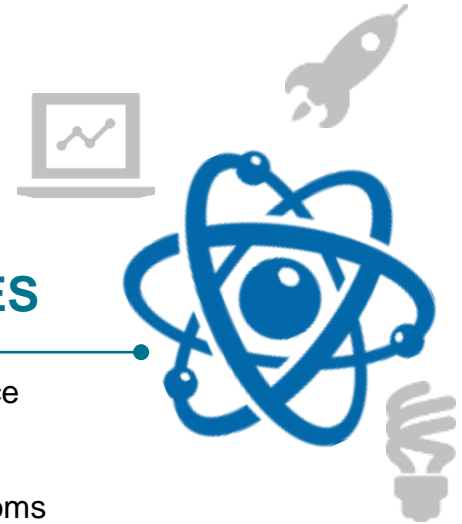
INTELLIGENT FILTERS

- Computer Vision
- Artificial Intelligence
- Machine Learning
- Big Data
- Facial Recognition



IMMERSIVE EXPERIENCES

- Unified Commerce
- Smart Mirrors
- Smart Floors
- Smart Fitting Rooms
- Augmented Reality
- Virtual Reality



“COVID-19 was a brutal accelerator of digital transformation trends that were already underway.” – Tony D’Onofrio

The Disruptive **Future** of Retail

Immersive Experiences
Brand Ambassadors

Trend 10

Edge Computing
IoT at Store's Center
Computer Vision

Harmonized Channels
Frictionless Commerce
Digitally Empowered Associates
Enterprise Inventory Visibility
Real Time Analytics / Engagement

THANK YOU

“*Vision without execution is hallucination.*”

~ Thomas Edison



You are the Leaders
to **Shape It.**

For MORE Visit
www.tonydonofrio.com

