

Artificial Intelligence In Retail: What Now?

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RSR Partners

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Research Overview

- In recent years the retail marketplace has been buffeted by a seemingly endless procession
 of mega-challenges: economic and political uncertainty, new and powerful competition, the
 rise of digitally empowered consumers, pandemics, and global climate change.
- As a result, the world in which retailers operate isn't *predictable*, but increasingly *dynamic*.
- Retailers seek to use new data gathered from outside the theoretical four walls of their businesses to develop scenario models –in order to better position the business's processes and assets to respond much more quickly to changes in the marketplace that may occur.
- Greater agility is the strategic objective.
- But retailers haven't forgotten about *operational efficiency*. They also seek the ability to *optimize operations* and to put *actionable information* into the hands of operators.
- Agility and optimization aren't mutually exclusive. In this study, we wanted to see how retailers view Al's ability to help them achieve both objectives.



Survey Respondent Characteristics

RSR conducted an online survey from August 2022 and received answers from 100 qualified retail respondents.

Who Responded:

C-level (e.g., CEO, CFO, COO, CIO)	46%
Vice President	17%
Director/Manager	35%
Staff and other	2%

· Retail Presence:

USA	100%
Canada	43%
Latin America	22%
UK	21%
Europe	20%
Middle East & Africa	6%
Asia/Pacific	8%

By Vertical:

Fast Moving Consumer Goods	45%
Fashion & Specialty	14%
General Merchandise	20%
Hard Goods	18%
Vertically Integrated Brand	3%

• By Performance:

Better than average ("Retail Winners")	52%
Average	37%
Worse than average ("Laggards")	11%



Key Learnings



More that one-half of retailers believe **that insights derived from Al-enabled analytics** will have a profound effect in the next three years on:

- Demand forecasting & merchandise planning, and
- · Supply chain planning & management

... But these findings are driven by over-performers (Retail Winners)



The greatest challenges retailers are concerned about that drive interest in Al-enabled analytics are:

- That consumer demand changes rapidly, undercutting the ability to place big buys and lower costs
- The need to to detect supply chain disruptions as early as possible and react more quickly
- ... But Winners worry that somehow the competition is more nimble in its response to disruptions

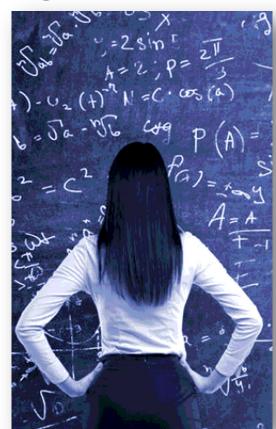


The single most important new data type that retailers want to analyze? **Real-time supply chain alerts** (unexpected supply shortages, bottlenecks, critical inventory situations, etc.)

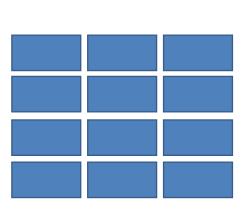


While concerns on the supply side of their businesses clearly are top-of-mind for retailers, many see opportunities to use insights derived from AI on the **customer side** as well, including:

- optimizing omni-channel order fulfillment
- personalizing the value proposition to consumers
- and improving the digital customer experience

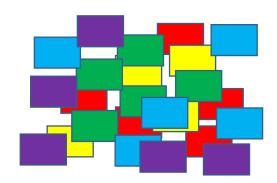


De-Mystifying Al



Structured Data

- Transactional data from internal operational systems
- Structured via pre-defined data models or schemas.
 - Analyzed with *rules*



<u>Unstructured Data</u>

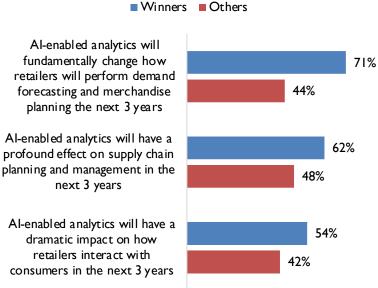
- Comes from non-transactional sources inside and outside of the company
- Text, images, voice, video, bitstreams, digital signals
 - Analyzed with algorithms that can detect patterns in data and use them to develop predictive models



Al-Enablement: It's A Winner's Strategy...



'Strongly Agree' With The Following Statements

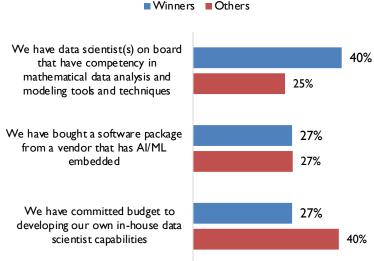




And More Winners Already Have The Skills On Board ...

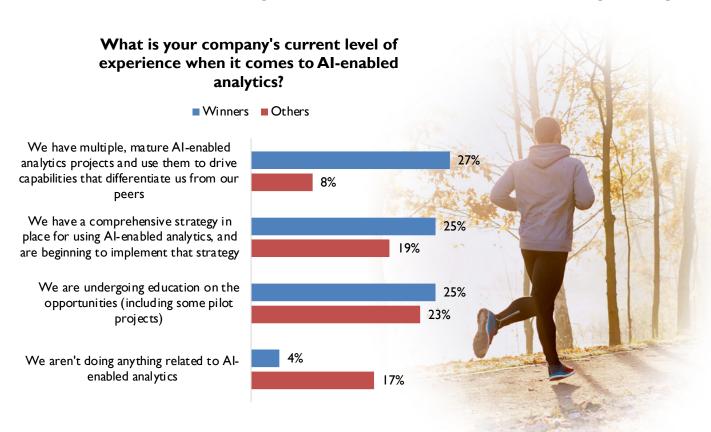


Thinking about your company's AI readiness, which statement that most closely describes your position now?





But Actual Adoption Is Still In Its Early Days







Supply Chain, Consumers, And Competition

Business Challenges



Winners & Others Agree On <u>Only One</u> Top Challenge: Supply Chain Disruptions

Top-3 Business Challenges That Create Interest In Al-Enabled Analytics

(Selected Differences)

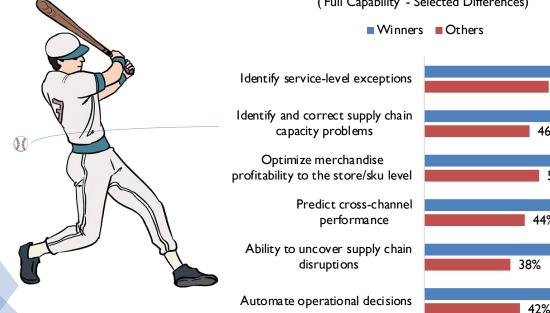




When It Comes To The Supply Chain, Retailers Struggle To **Get Insights Quickly Enough To Act**

Rate Your Company's Current **Merchandising And Supply Chain Business Analytics Capabilities**

('Full Capability' - Selected Differences)





69%

63%

63%

63%

62%

56%

54%

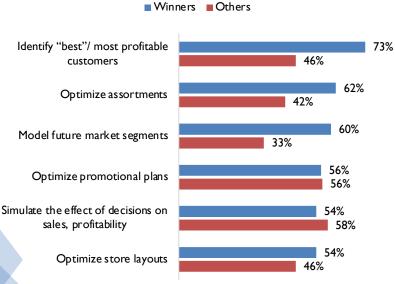
46%

50%

44%

On The Customer Side Of The Business, Retailers Struggle To Adjust To Local Preferences

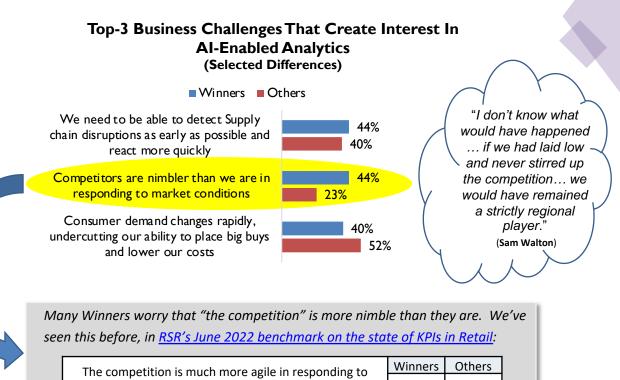
Rate Your Company's Current Marketing
And Other Customer Facing Business
Analytics Capabilities
('Full Capability' - Selected Differences)







Winners Worry That Competitors Are More Agile



56%

33%



changes in supply and demand than we are

Summing Up The Business Challenges

It's hardly surprising that **supply chain disruptions** are top of mind for Retail Winners and non-winners alike. 2021-22 saw shocking interruptions in the flow of goods to retailers.

But other concerns are also highlighted; competition, consumers, and operational costs.

Under-utilization of current tools and data amounts to a true business challenge for retailers – even for Retail Winners. Many companies aren't getting the full value of their current capabilities.

Nonetheless, **adoption of AI** to gain new insights from new data shows great promise.







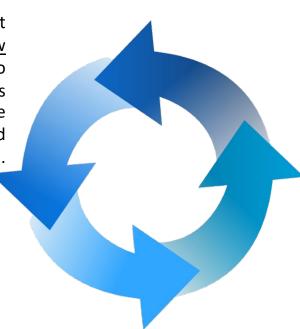
Dealing With Disruption

Opportunities



Operationalizing analytics is a reiterative process...

First, retailers must implement new measurements into operational processes so that they can be analyzed and optimized.



Then, real time <u>alerts</u> derived from analytics can be inserted into processes so that immediate corrective decisions can be made, even to the point of automating certain decisions.



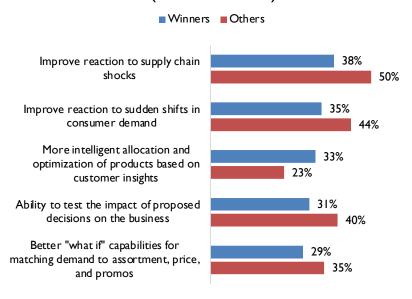
On The Supply-Facing Side

"<The supply chain is> still a major problem... It's one of the biggest factors that are causing this where we are today. We have seen some signs of softness, some signs of moderation — but nowhere near what we need to get to."

S&P Global Chief U.S. Economist Beth Ann Bovino, September 2022

The Greater The Pain, The Greater The Opportunity

TOP-3 Opportunities From Greater Use Of Al-enabled Analytics Within The Business (Selected Differences)

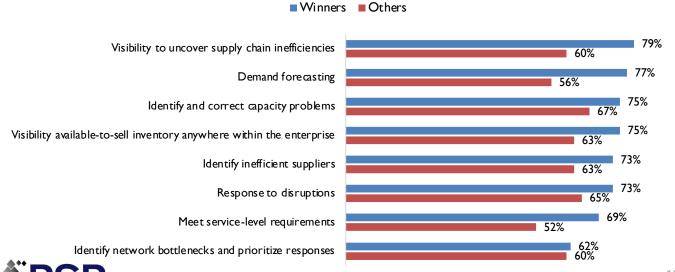




How? It Starts With Visibility



Rate How Real-Time Insights Can Help The Following Supply Chain-Related Tasks ('A Lot Of Value')



On the Customer-Facing Side

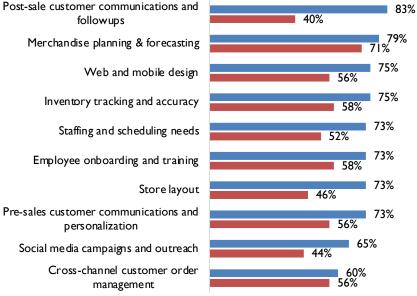




New Data => New Insights => New Opportunities

Rate The Value That Insights From New Sources Of Data Could Bring To The Following Operational Processes At Your Company ('A Lot Of Value')







What Stands In The Way?

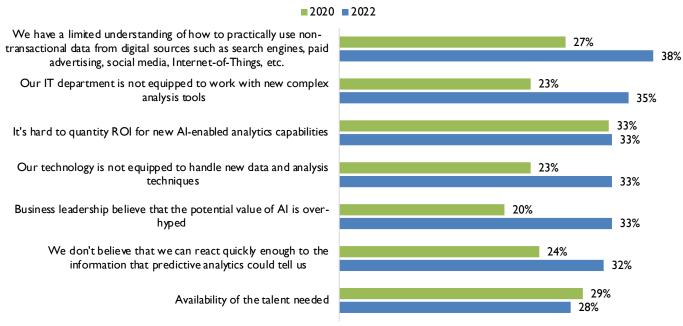
Organizational Inhibitors



A More Sober Assessment Of What Stands In The Way Of Adoption

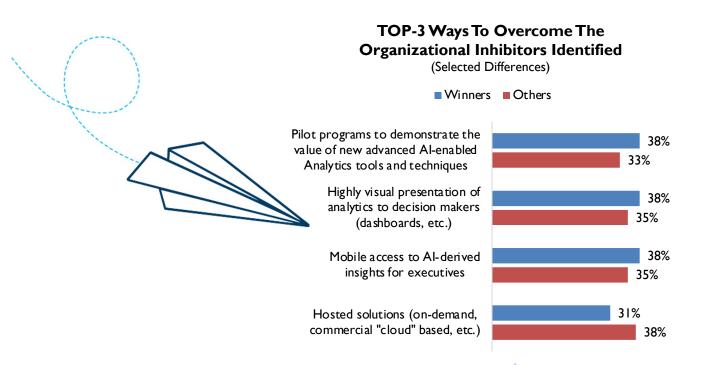
TOP-3 Organizational Inhibitors Standing In The Way Of Taking Advantage Of The Opportunities Identified

(Selected Comparisons)





How To Overcome Inhibitors? Demonstrate Value To Decision Makers In Highly Visual Ways, Via Mobile







Making Insights Accessible & Actionable

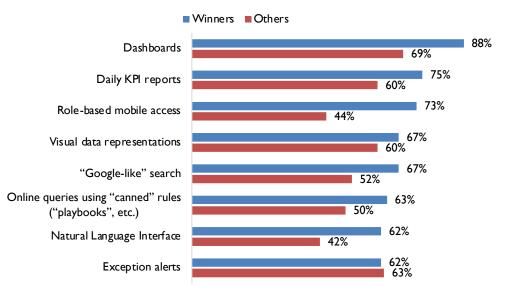
Technology Enablers



Making Actionable Information Accessible

How Important Are The Following Interfaces To Your Company?

('Very Important')

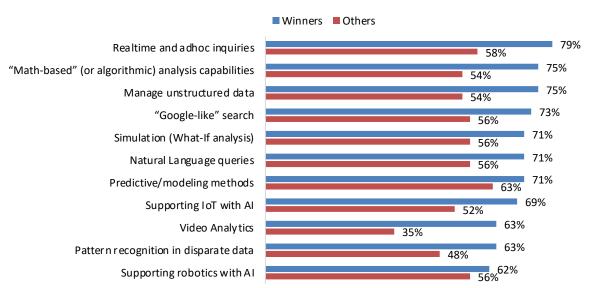




Which Data Analytics Capabilities Stand To Benefit Them Most In The Foreseeable Future?

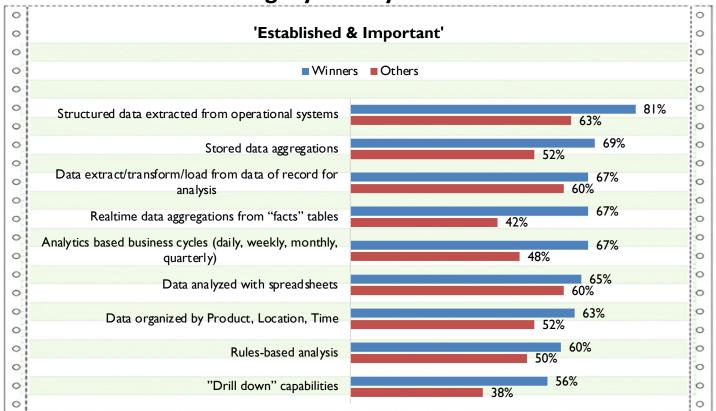
How Important Are The Following New Data Analytics Capabilities To Your Company?

('Very Important')





But There's Still An Important Role For "Legacy" Analytics Too!







Report Recommendations



Don't Fear The Reaper

Al is powerful tool that can help retailers make smarter decisions – about a whole raft of things they have to decide every day.

Use These Tools To Help Do What You Said You Could

Retailers need to utilize every tool at their disposal to keep Amazon.com from becoming the shopper's "default mode." All holds tremendous opportunity to combat that very thing by helping retailers to precisely deliver the right products to the right places at the right time and in the right quantities to meet local demand – without over-inventorying.

Think About The Merchandising Opportunities

The need for differentiated products and assortments has never been greater. Can AI really help determine what some of those products might be? Can it help with creating a differentiated mix? Winners think the answer to these questions is "yes".

Think Outside The Box

Retail decision makers need to think about their brand, what makes it different from the competition, and if there's anything that could benefit from a "smartening up" of processes.

Think Inside The Box, Too

Winners are disproportionately interested in scenario-based testing and are well underway in pilot programs with many such store-focused solutions.

Take A Page From Winners' Book

All is already helping the best retailers across the world rationalize what they buy and in what quantity, how to get those products where they need to be, where they will sell best and at what price — the list goes on and on. Winners are embracing the potential. Everyone should.

About RSR Research



Retail Systems Research ("RSR") is the only research company run by retailers for the retail industry. RSR provides insight into business and technology challenges facing the extended retail industry, providing thought leadership and advice on navigating these challenges for specific companies and the industry at large. We do this by:

- •Identifying information that helps retailers and their trading partners to build more efficient and profitable businesses;
- •Identifying industry issues that solutions providers must address to be relevant in the extended retail industry;
- **Providing insight and analysis** about a broad spectrum of issues and trends in the Extended Retail Industry.





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RSR Benchmark, October 2022

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