ADVANCED ANALYTICS

RETAIL ANALYTICS: PAST, PRESENT, & FUTURE

Business intelligence and analytics disciplines are rapidly evolving, shifting from looking at historical data to understanding what happened, and capturing real-time data to understand why it happened to using predictive analytics to understand what will happen. Retailers embracing advanced analytics create new insights, new business models, and new ways of staying ahead of competition.







HINDSIGHT **THE 1950s**

In the 1950s, business analytics emerged when computers were able to process

large quantities of information and identify business trends faster than the human

mind. The focus of early business analytics was to gather historical information and identify trends. Analytics enable retailers to look at historical data to gain insight and drive business planning.









THE MID-2000s In the mid-2000s, as Internet-based and social network companies began to amass and analyze new kinds of information, the term, big data, was coined to recognize

INSIGHT

While the data keeps growing exponentially, retailers who are able to access both historical data and real-time data from a variety of sources and

the large amount of data that was being generated by internal transaction systems

and external sources.

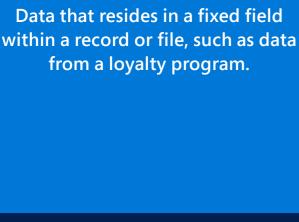


analyze it in a meaningful way can transform information into business insight. The ongoing explosion of data comes from a variety of sources, including public data, or openly available records; purchased data, or secondary research done by a third-party; and proprietary data.

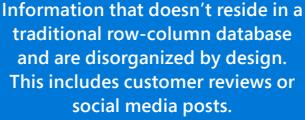
This data is divided into three categories:



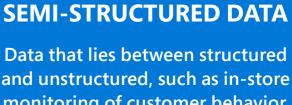




STRUCTURED DATA



90% of big data has been created in the past two years.1



monitoring of customer behavior.



digital information in existence will have grown to 40 zettabyes.²





combine predictive analytics, (what might happen to data) and prescriptive analytics

(what should happen and the best ways to optimize results). This enables retailers to

better understand how to sell more of a product, predict what a customer wants,

ensure the right level of inventory and assortment is available, and create a more

personalized and seamless experience, no matter where the customer shops.

By connecting real-time data with business



decision makers, retailers are able to provide personalized customer experiences and improve demand forecasting. Today's advanced analytics technologies enable retailers to develop models on an ongoing and iterative basis to test presumptions about potential business outcomes, and optimize demand forecasting. And as consumers do more research in multiple channels—in-store, online, and on their mobile—advanced analytics help retailers to

support a more unified commerce customer experience, so they can offer the right

product to a customer where, when, and how they desire. Retailers who adopt

advanced analytics will have a competitive advantage.

Pier 1 imports[®] Pier 1 used

Rockwell **Ziosk**® **Automation**

Rockwell Automation

saved \$300,000 a day

by eliminating asset

down-time.

Companies that have incorporated data and analytics

Ziosk increased sales with

customer personalization

across 150,000 tables,

serving 50 million

guests per month.



personalization to

increase sales across

1,100 stores.

into their operations show productivity rates 5 to 6 percent higher than those of their peers.3



and the cloud together.4

By 2020, at least a third of all data will pass

through the cloud - tying advanced analytics



Find out how Advanced Analytics helps retailers build a stronger customer experience. **Download the free eBook.**



³"Big Data & Advanced analytics: Success stories from the front lines." McKinsey & Company. ⁴"Surprising Statistics About Big Data." Baseline. February, 2014.