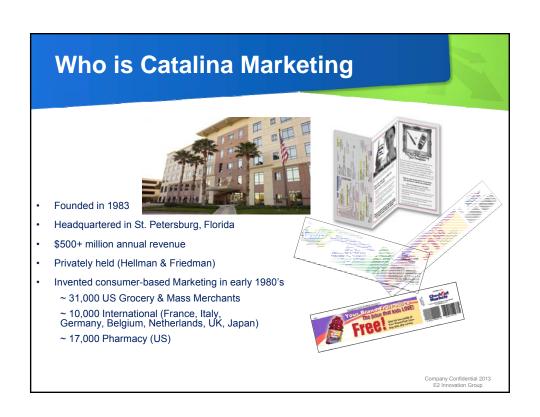
# Consumer Marketing using Big Data & Analytics Eric Williams, former VP and CIO, Catalina Marketing



# **Defining Big Data is Relative**

- Big data are datasets that grow so large that they become awkward to work with using on-hand database management tools.
- · Simply put, they are sets of data that:
  - contain hundreds of billions of rows
  - Tens to hundreds of terabytes in space
  - change frequently and require daily management

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#### **Catalina Data Warehouse**

Average shopping basket 16 items + total 17
Average Daily volume 2,500 transactions 42,500
One year of transactions 364 days 15,512,500
Stores in Network 31,000 stores 480,887,500,000
Years of Data 3 years of data 1,442,662,500,000

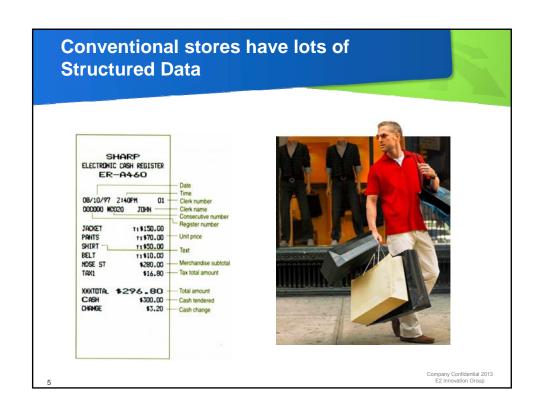






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# The world is changing – everyone has a customer

Steve Jobs once said, "It is not the customer's job to know what they want."

#### It is yours

 Don't think you don't have a customer because you work in an internal support function or for a company that provides components or services. Everyone has a customer, whether it is a purchaser, user, or coworker.

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## **Consumers have changed**



- Value Conscious
- High Expectations
- Time Starved
- · Loyalty challenged
- Mobile enabled



#### Unfortunately...

- · We are more self-centered
- We expect immediate gratitude
- We expect instant access

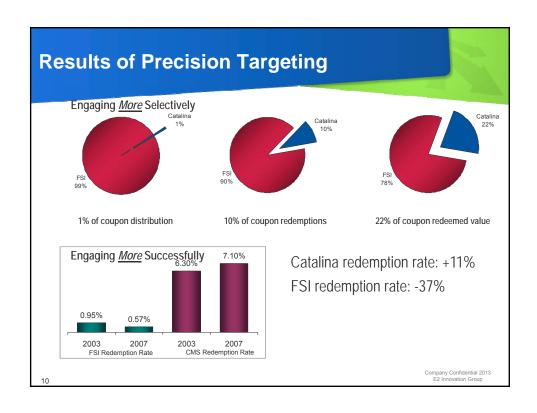
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# **Data and Technology**

- Four key examples of how data can change Marketing organizations
  - Traditional BI and Analytic Targeting
  - Data Mining and Predictive Analytics
    - The use of HPC and In-database technology
  - Offer Optimization
    - The use of Marketing Automation
  - The Brave New World of Media Optimization

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# **Making Consumer information Actionable**

Launching New Items



#### **Precision Marketing Solution**

Find the people who care Tell them the day it's in the store First an ad, then an incentive

#### Result

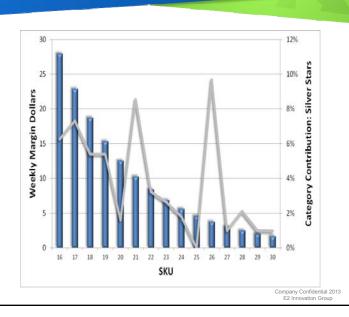
Accelerated new item velocity Ongoing higher share

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# **Making Consumer information Actionable**

SKU sales alone do not tell the whole story



#### **Predictive Modeling – Books / CDs / Movies**

#### What is Predictive Modeling?

A sophisticated method to identify and communicate to consumers who have never purchased your brand but are most likely to buy

#### Predictive Modeling:

- 1) Greatly enhances trial efficiency
- 2) Excellent conversion rates after trial
- 3) Increases "never buy" response rates

#### Brand Buyer







Likely brand buyers exhibit similar grocery purchase behavior as current brand buyers, only they have not yet purchased the brand

#### amazon.com







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# **Making Consumer information Actionable**

### Data Mining – Predictive Analytics

Data mining allows marketers to focus their investments against most likely new customers



When consumers first try Soy, they tend to remain loyal to that product. If we could only predict which households cream their coffee with milk we can attract them, but almost all households buy milk.

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#### How do you Predict households lightening coffee

- Within Catalina's household database
  - Use Behavior Activated Research (BAR) to conduct attitudinal study of a group of milk and coffee households
  - Identify those who lighten their coffee with milk
- Identify similar households in Catalina's database based on a predictive model
- · Apply impressions against identified groups
- · Measure changes in groups' purchase behavior

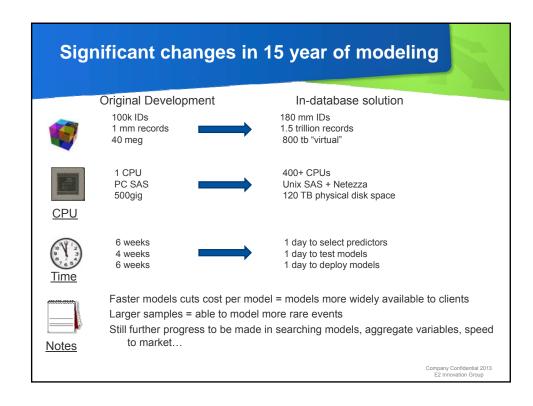
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# **Even Media Businesses are using Data** to predict their consumer's needs

"Netflix is commissioning original content because it knows what people want before they do ... Netflix has always used data to decide which shows to license, and now that expertise is extended to the first-run. And there was not one trailer for 'House of Cards,' there were many. Fans of Mr. Spacey saw trailers featuring him, women watching Thelma and Louise saw trailers featuring the show's female characters and serious film buffs saw trailers that reflected Mr. Fincher's touch."

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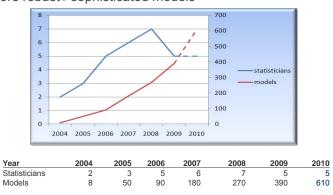
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## Impact to Business using In-database technologies

- Increased model throughput = Increased Revenue
- Flat Statistical resources required
- More robust / sophisticated models

Year



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# **The New Consumer**

# **Segmentation is Dead!**

Technology allows you to market to a segmentation of one



Personalization is what consumer's want and demand

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Consumers have multiple purchase points, so you need multiple marketing points







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