

Predictive Marketing for Banking and Financial Services

Introduction

- Need for a New Business Model
- The Importance of Customer Insight
- Potential of Predictive Analytics
- How Predictive Analytics Fuels Marketing Optimization
- Wrap-Up

Reasons to be optimistic

There is an extraordinary opportunity !

5.8% CAGR

Growth in world GDP¹ from 2010 thru 2025 will put the current crisis in context.

2.5 billion

Half the world is unbanked. Just over half of world's adult population do not use formal financial services to save or borrow.²

\$1,264 trillion

The value of global assets³ will quadruple by 2025 – calling on a vibrant global financial system to intermediate and manage.

1 - Nominal

2 - http://financialaccess.org/sites/default/files/110109%20HalfUnbanked_0.pdf

3 - Assets = deposits, equity and fixed income

Growth requires smart institutions to think and act in new ways

Rethink the
business model

Drive a simplified and streamlined agile enterprise that balances growth, efficiency and business resiliency

Develop new
intelligence

Develop enterprise wide capabilities to enable informed judgment, client- centricity and profitable growth

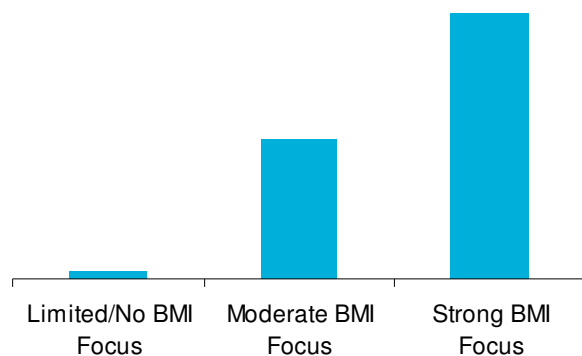
Integrate risk
management

Achieve compliance objectives while mitigating operational risk, fighting crime and optimizing financial returns

Rethink the business model

Financial institutions must re-orient their business models to win in the 'new normal' economy

Two thirds of FI CEOs have a Business Model Innovation focus



Efficiency / Streamlining Areas of Investment

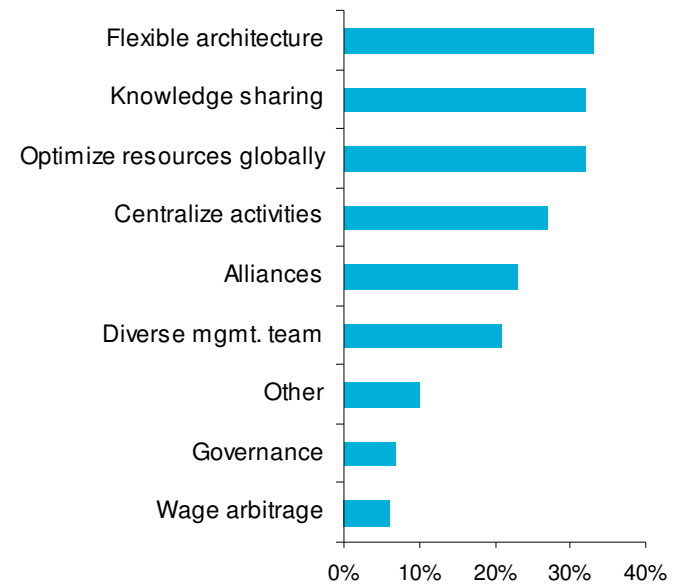


Diagram 1 - Source: IBM Global CEO Study 2008; n (financial institutions) = 105

Question: What type(s) of business model innovation will you implement over the next 3 years?

Question: For the type you rated highest in the previous question, what key initiatives will you implement over the next 3 years?

Diagram 2 - Source: IBM Institute for Business Value analysis, n=550

Question: Over the next three years what are your top strategic priorities as it relates to creating efficiencies.

(Percentage of Survey Respondents)

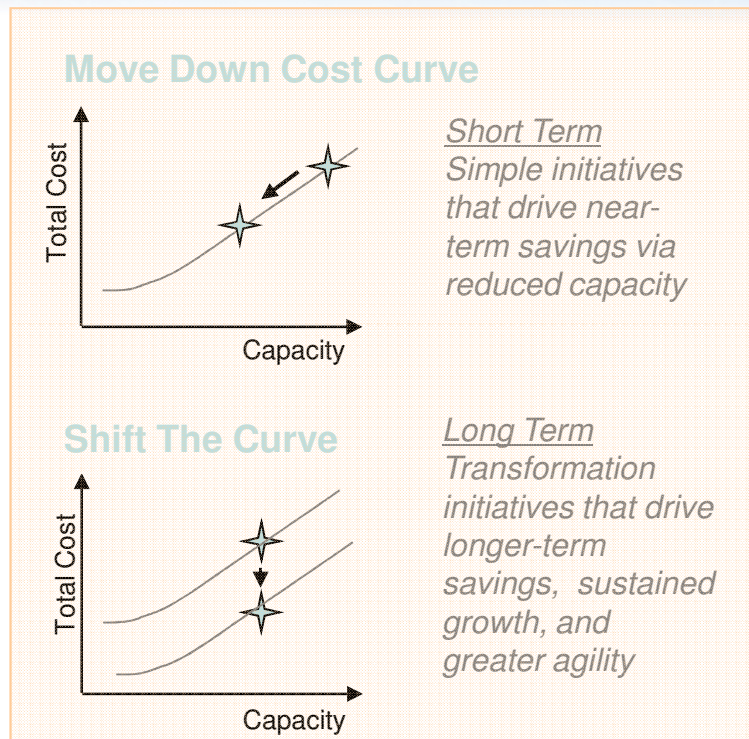
Specialization remains a winning theme within the ecosystem

Traditional Banking	Risk & Capital Market Specialists ¹	Customer Intimacy	Operational Excellence
<ul style="list-style-type: none"> ▪ Revenues + 9% CAGR 2003-08 ▪ Pre-tax profits - 9% CAGR 2003-08 ▪ Universal banks: Profits - 194% ▪ Government has facilitated mergers of major banks and have funded many others to maintain solvency 	<ul style="list-style-type: none"> ▪ Capital market firms have become banks and are now supervised by the bank regulator ▪ Many US and Europe based risk (mortgage) specialists have been nationalized 	<ul style="list-style-type: none"> ▪ Revenues + 10% CAGR 2003-08 ▪ Pre-tax profits - 1% CAGR 2003-08 	<ul style="list-style-type: none"> ▪ Revenues + 13% CAGR 2003-08 ▪ Pre-tax profits + 12% CAGR 2003-08

- Specialists firms in the Customer Intimacy and Operational Excellence domains continue to succeed, thanks to their insights (specialization)
- Opaque products and disconnects with the client have resulted in failures and nationalization of many risk specialists²
- Traditional banking and capital market domains are witness to loss of capitalization, and government intervention to provide liquidity

Note: 1,2: Risk & Capital Management is discussed in "Toward Transparency and Stability: A New Financial order" IBM IBV paper. Q2 2009

While smart cost management will reduce complexity, future growth is contingent on understanding the client



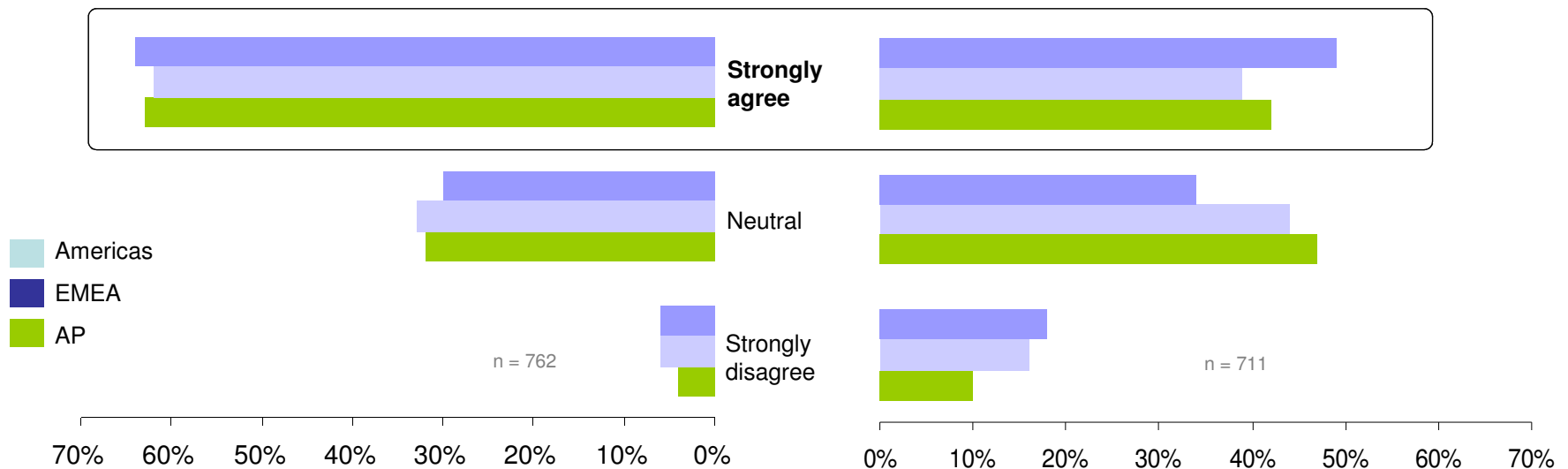
Understanding the Client

Clients do not trust banks to offer products and services that are in clients' best interests

Trust Gap

Client Opinion: Providers offer products in the *firm's best interest*
(Percentage of Survey Respondents¹)

Provider Opinion: Providers offer products in the *firm's best interest*
(Percentage of Survey Respondents¹)



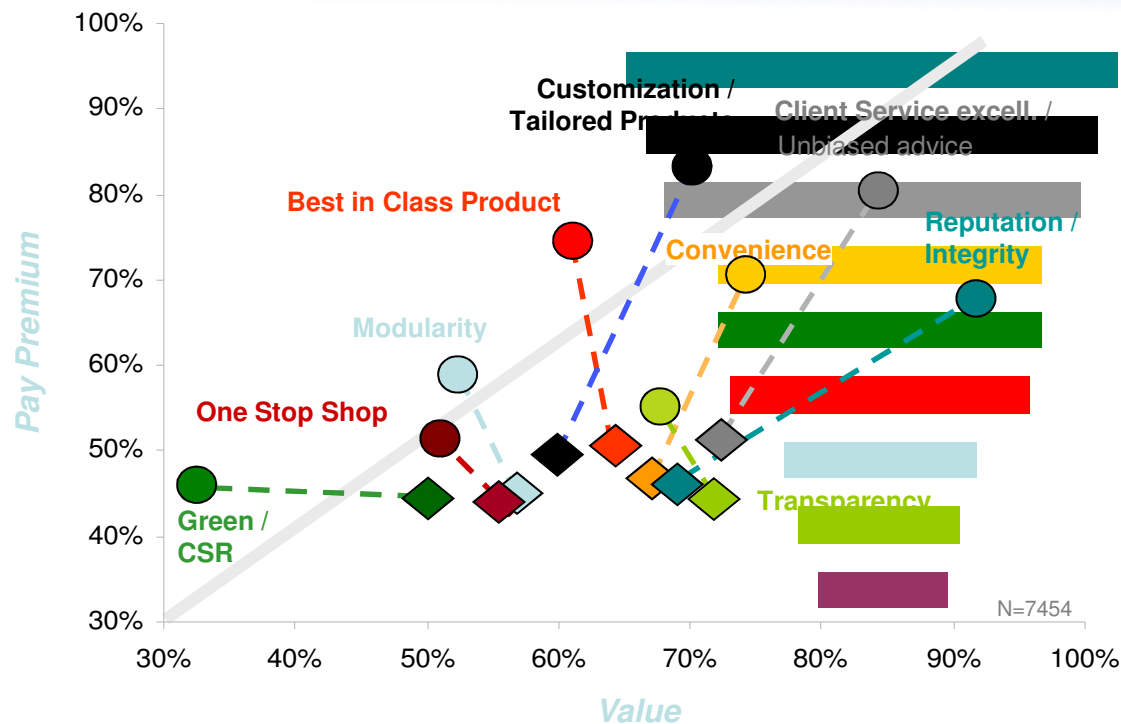
Note: ¹Question asked: To what extent do you agree / disagree with the following statements about trust, Please rank on a scale of 1-6 where 1=strongly disagree and 6=strongly agree, Investment firms are likely to offer products & services in the investment firm's own best interest
 IBM / CFA Survey 2008; IBM Institute for Business Value analysis

Banks have overlooked their customers' values and behaviors

Disconnects: Client Vs. Provider Perceived Value and Premiums

(Percentage of Survey Respondents)

“Size” of disconnects

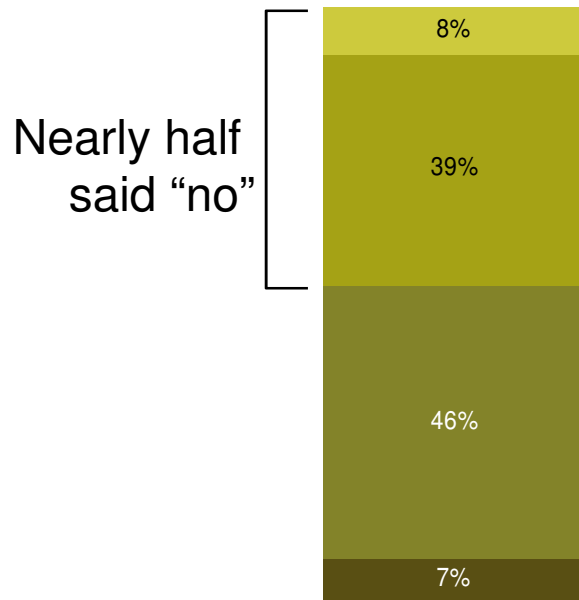


◇ Client Rankings ○ Provider Rankings - - - - Disconnects

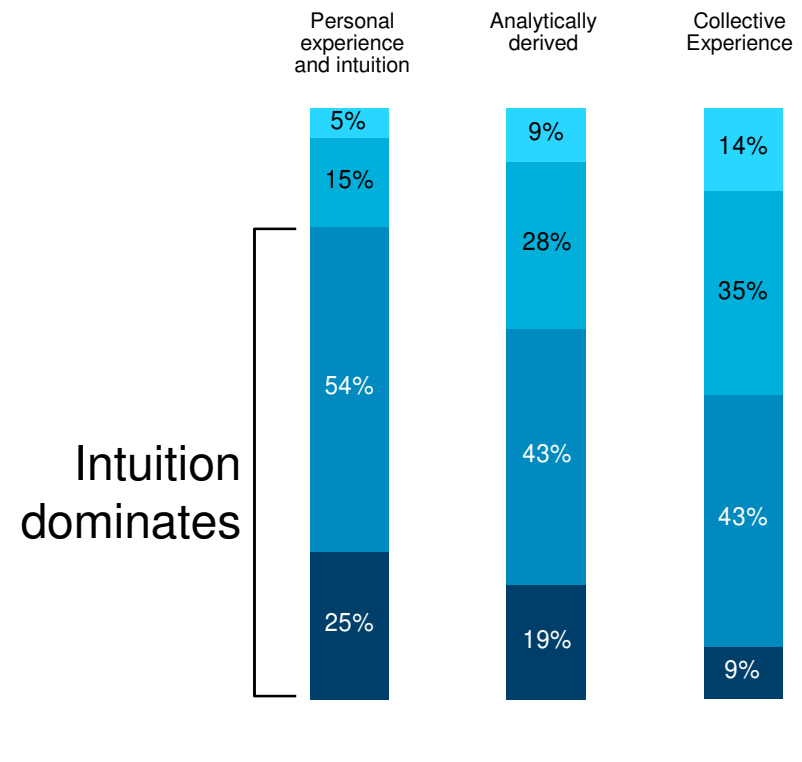
Note: Question asked: Which financial services capabilities become more/less important to you in the next 3-5 years? Rank 1-6. How much would your clients be willing to pay over existing rates to ensure that you deliver on specific factors, Select 0%, 5%, 10%, 15% or more, don't know. IBV/Economist Intelligence Unit Banking Survey 2008; IBM Institute for Business Value analysis

Lack of information and current pace of business forces organizations to be overly dependent on intuition

Do you have sufficient information to do your job?



How do you make business decisions?



"Guestimation" has worked up to a point (arguably we've passed it)

Source: EIU launch survey for IBM BAO, 2009

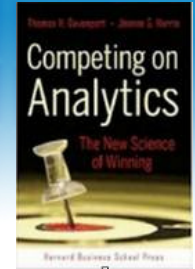
Question 1: How often have you made major decisions with incomplete information or information you don't trust?

Question 2: To what extent do you make business decisions based on the following factors?

Analytics Critical for Driving Competitive Advantage

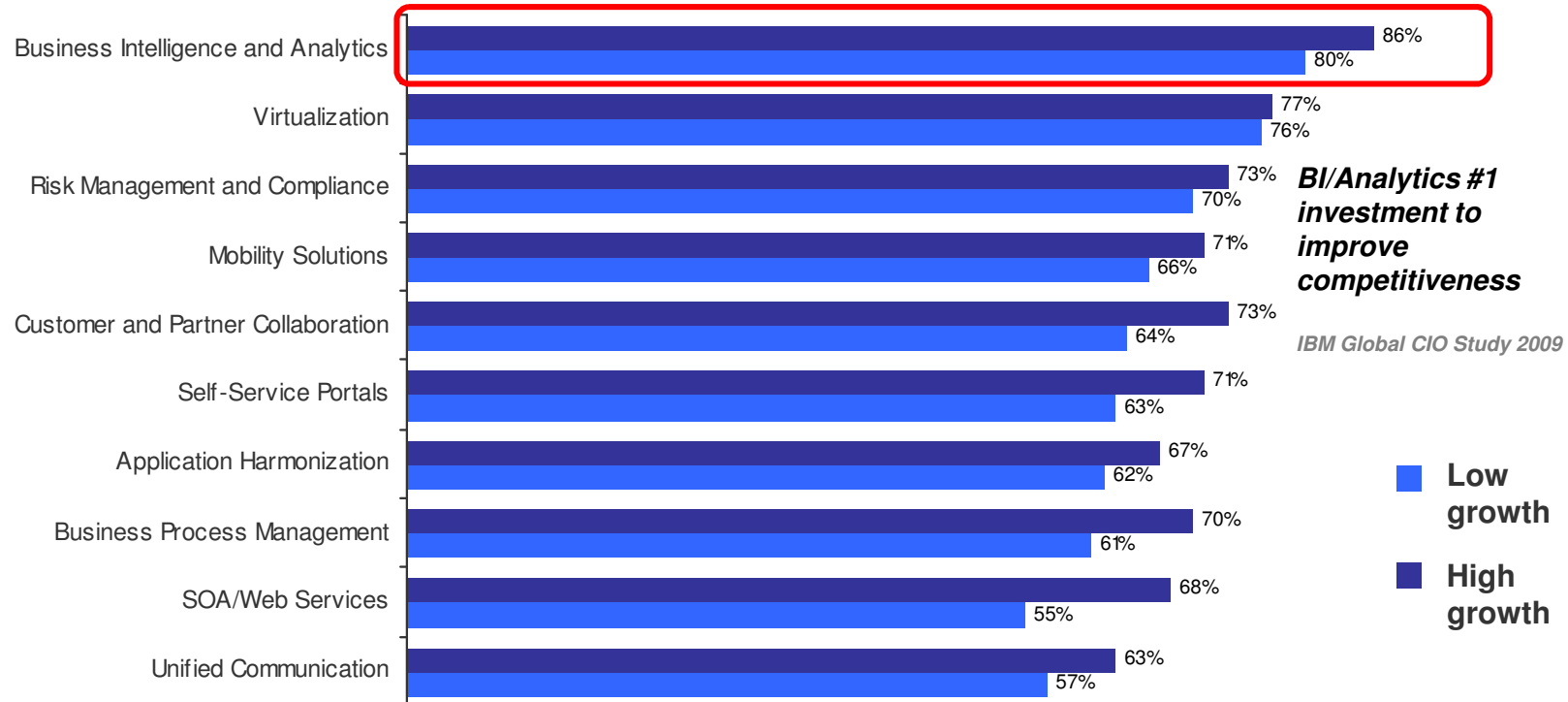
“At a time when companies in many industries offer similar products and use comparable technology, high-performance business processes are among the last remaining points of differentiation.”

Tom Davenport, “Competing on Analytics”



Ten Most Important Visionary Plan Elements

Interviewed CIOs could select as many as they wanted



Source: IBM Global CIO Study 2009; n = 2345

Banking Campaign Insight & Optimization

- Enhance your existing customer relationships via cross selling and targeting the right customers and prospects with both the right products and services.
 - Increase lead generation
 - Enhance Banking revenue
 - Reduce campaign costs



Precisely target your marketing offers by

Using all relevant data to understand your customer's behavior in all its facets

Campaign Data

- Contact history
- Response/purchases
- Test campaigns

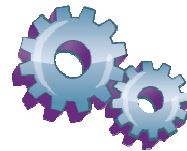


Customer Data

- Demographics
- Account Activity
- Product Holdings
- Channel Activity
- Information Requests
- Complaints



Apply predictive models to identify what the most appropriate offer is for each individual customer



Analyses

Predict who is likely to respond, based on their customer profile *when receiving the campaign*

Deploy that intelligence to your outbound marketing processes and systems



Outbound marketing and advisors



Capture

Predict

Act



First Tennessee Bank

Increases marketing campaign efficiency and zeroes in on the right customer

Challenge

- Increase cross-sell ROI
 - Identify profitable customer segments
 - Predict which marketing programs generate highest responses
 - Match the right program to the right customer segment

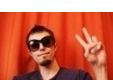
Solution

- **Used predictive analytics to model campaign effectiveness**
- **Created propensity models to identify target customer segments**
- **Monthly marketing campaigns targeted at the right segment**

Results

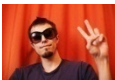
- **Tailored marketing programs to segmented customers.**
- **Increased efficiency of direct marketing campaigns.**
- **Decrease costs of direct response campaigns.**

Business Scenario: Growing Your Customer's Value through Cross-Sell



Customer Contacts
Plenty of customers to contact, but what would be the best offer (if any) for each one?

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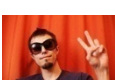


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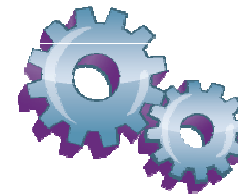


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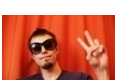
Predictive Models
Likelihood to respond to each of the current marketing offers



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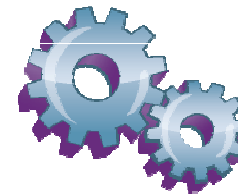
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Next Best Action
Best 3 offers recorded for every customer individually

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12435	A	C	F
56437	B	G	D
59235	H	C	-
45276	-	-	-
<i>Etcetera</i>	-	-	-



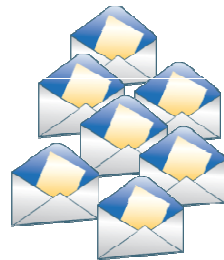
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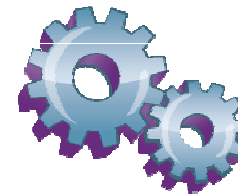
Business Scenario: Cross-selling in Retail Banking



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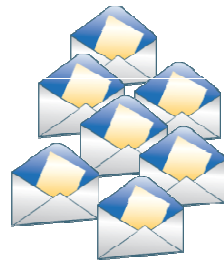
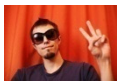
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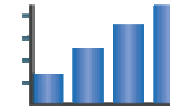
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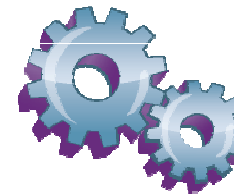
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Key Performance Predictors and Campaign Results

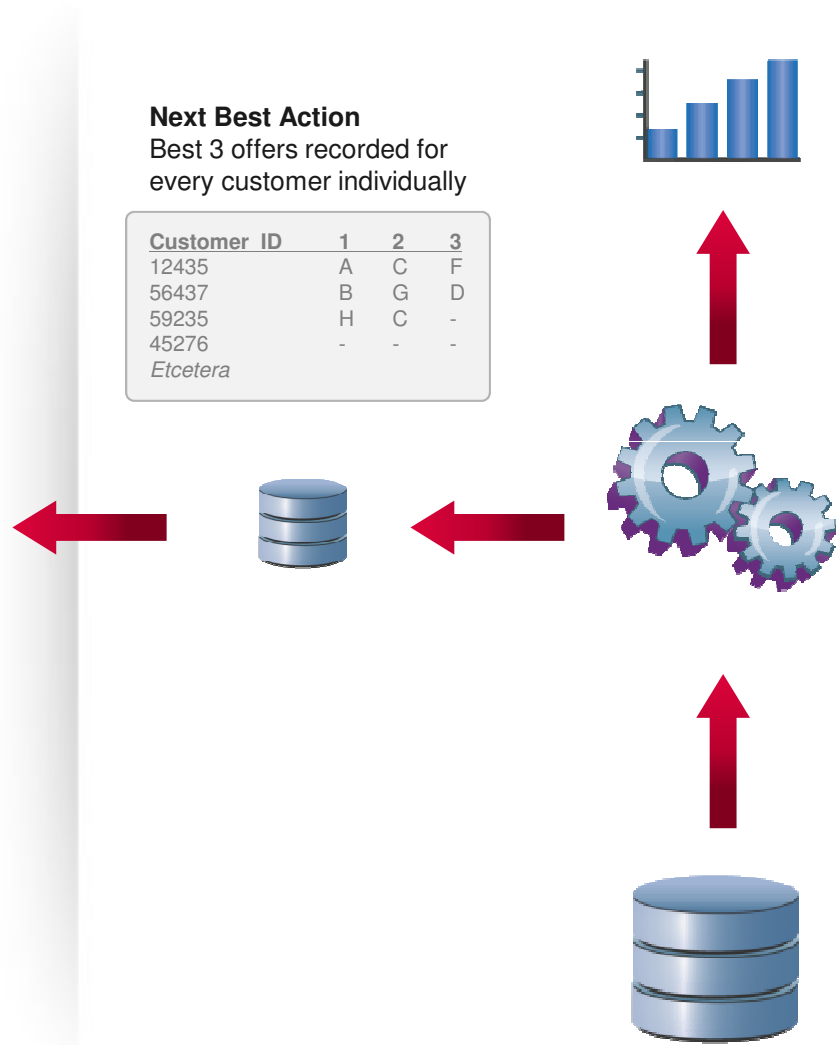


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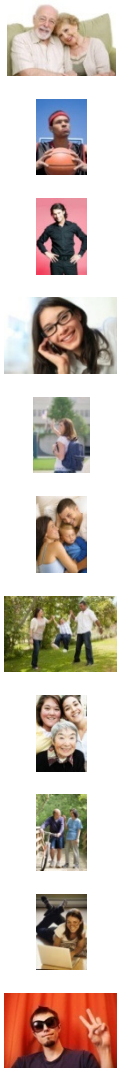


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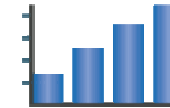
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Key Performance Predictors and Campaign Results



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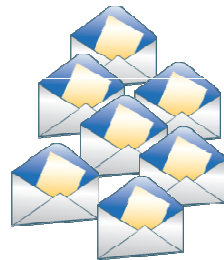
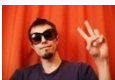


Automated Updates
To accommodate new offers and to apply customer contact rules



Customer Data

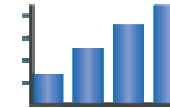
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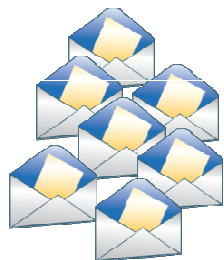
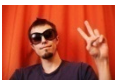
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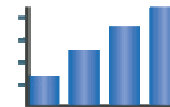
Capabilities



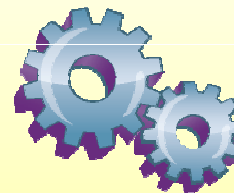
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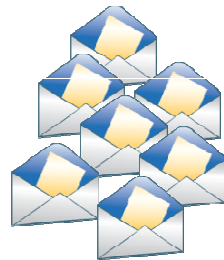
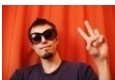
Predictive Modeling

Automated
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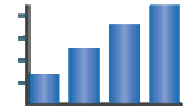


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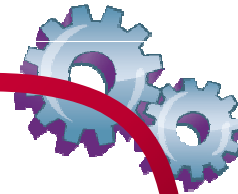
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Decision Optimization



Key Performance Predictors and Campaign Results



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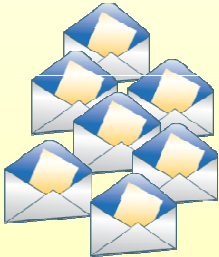
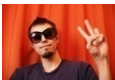
Automated Updates
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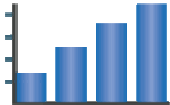


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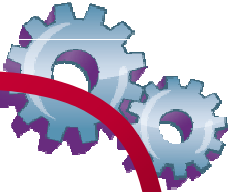
Integration with operational processes and systems

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10105	A	C	F
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	-	-	-



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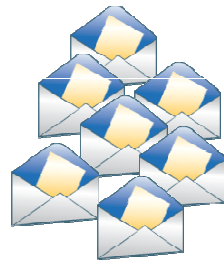
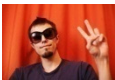
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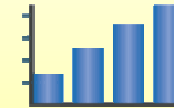
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Automated Updates
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Analysis, reporting and KPPs



Key Performance Predictors and Campaign Results



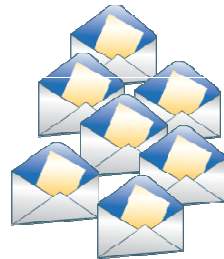
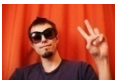
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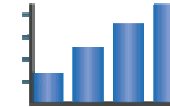
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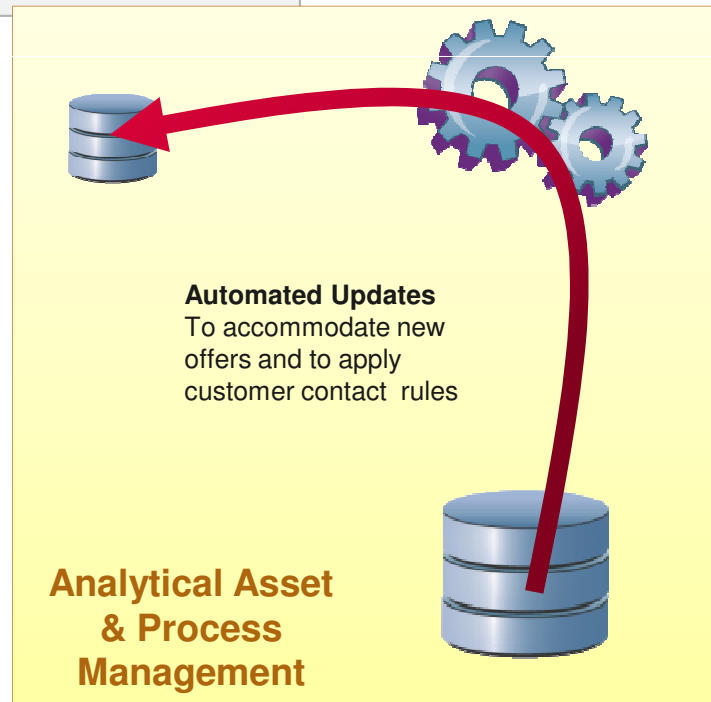
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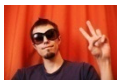
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Analytical Asset & Process Management

Customer Data
Demographics
Account Activity
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Business Objectives

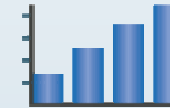
Grow customer value



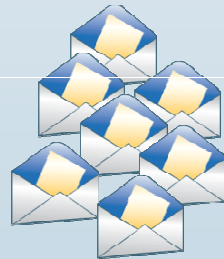
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45276	-	-	-
<i>Etcetera</i>	-	-	-



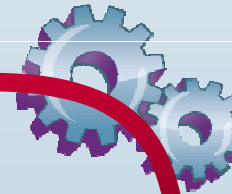
Key Performance Predictors and Campaign Results



Customer Contacts
Marketing offers are personalized based on Best Next Actions and mailed to customers



Automated Updates
To accommodate new offers and to apply customer contact rules



Predictive Models
Likelihood to respond to each of the current marketing offers



Customer Data

- Demographics
- Account Activity
- Product Holdings
- Channel Activity
- Information Requests
- Complaints

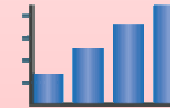
Business Functions

“Marketing”

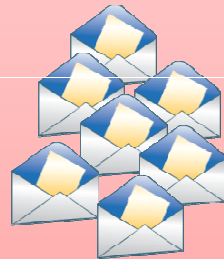
Next Best Action

Best 3 offers recorded for every customer individually

Customer ID	1	2	3
12435	A	C	F
56437	B	G	D
59235	H	C	-
45276	-	-	-
<i>Etcetera</i>	-	-	-



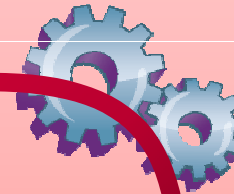
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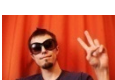


Predictive Models
Likelihood to respond to each of the current marketing offers



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- Complaints





Analytical
Process

The diagram features a blue background with a grid pattern. At the top, a white box contains the text 'Analytical Process'. Below this, a horizontal line consists of five segments: a solid black segment on the left, followed by four white segments with black outlines.

Campaign Data

- Contact history
- Response/purchases
- Test campaigns



Customer Data

- Demographics
- Account Activity
- Product Holdings
- Channel Activity
- Information Requests
- Complaints



Capture



Predict



Act

Analytical Process

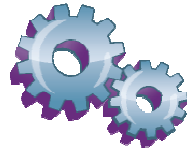
Campaign Data

- Contact history
- Response/purchases
- Test campaigns



Customer Data

- Demographics
- Account Activity
- Product Holdings
- Channel Activity
- Information Requests
- Complaints



Analyses

Predict who is likely to respond, based on their customer profile *when receiving the campaign*

Capture



Predict



Act

Analytical Process

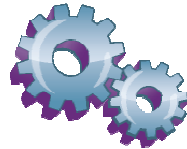
Campaign Data

- Contact history
- Response/purchases
- Test campaigns



Customer Data

- Demographics
- Account Activity
- Product Holdings
- Channel Activity
- Information Requests
- Complaints



Analyses

Predict who is likely to respond, based on their customer profile *when receiving the campaign*



Scoring

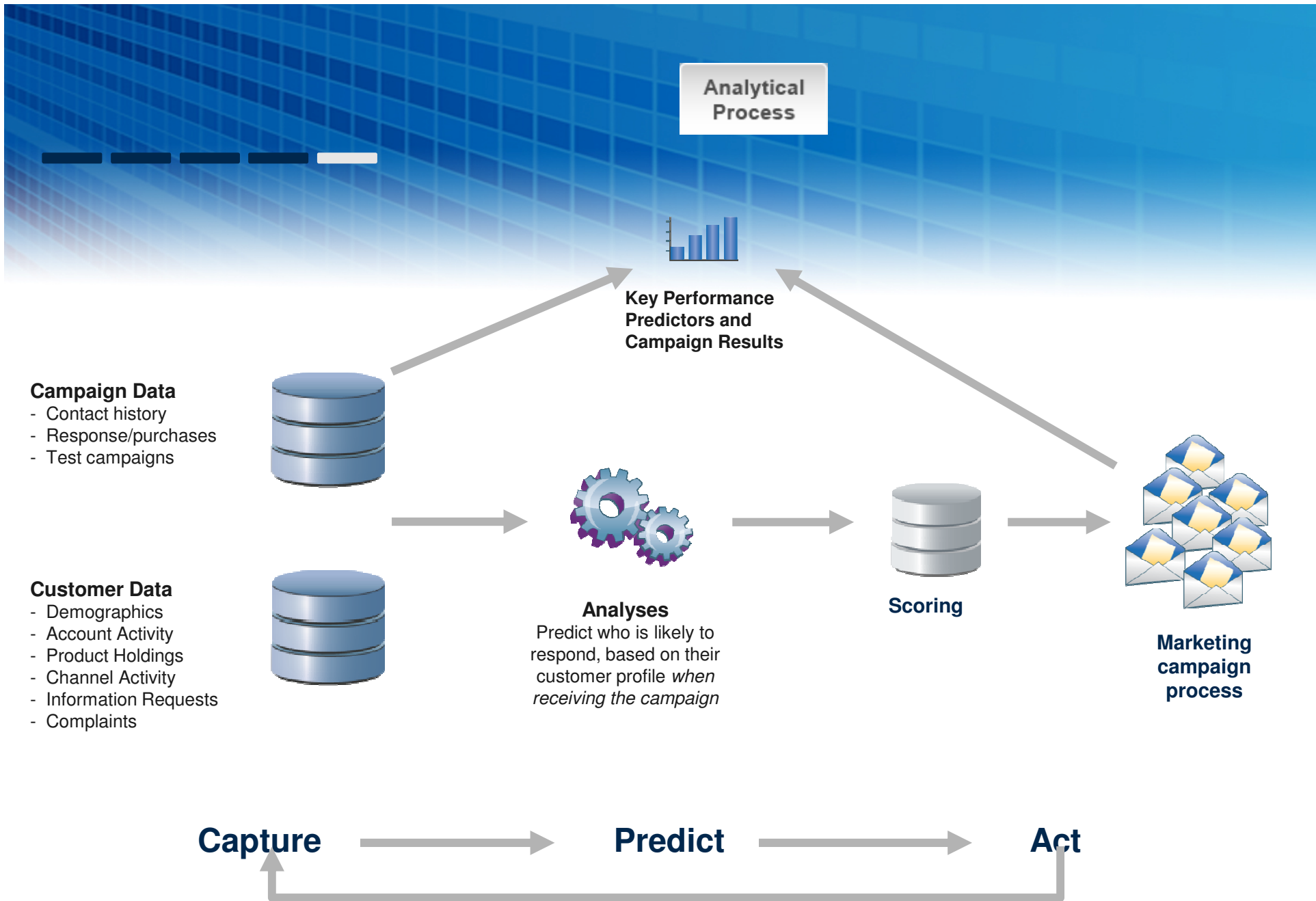


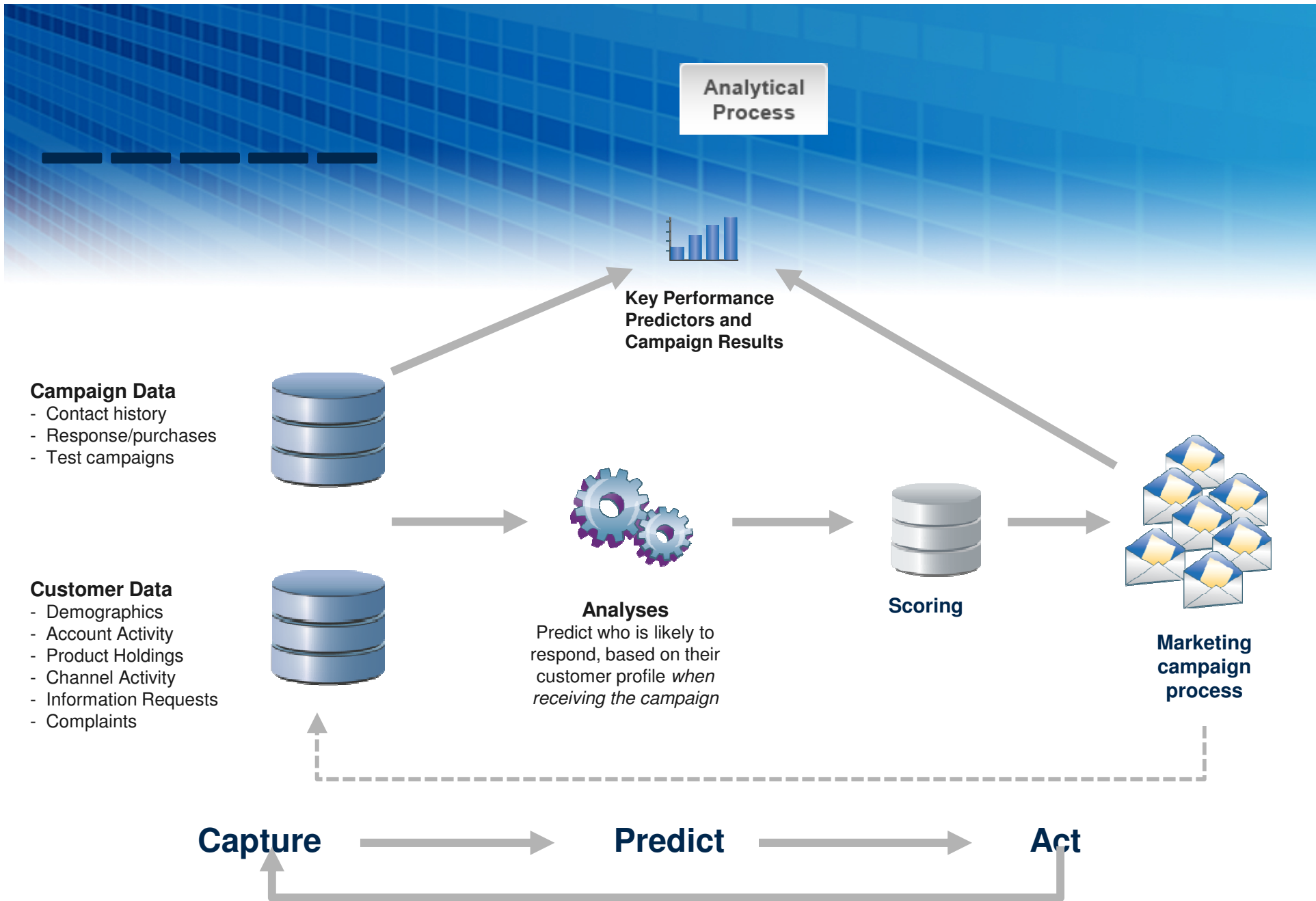
Marketing campaign process

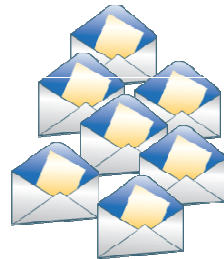
Capture

Predict

Act





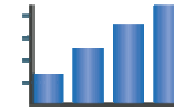


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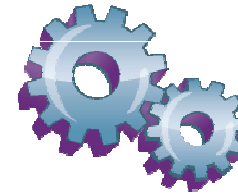
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<i>Etcetera</i>			



Key Performance Predictors and Campaign Results



Predictive Models
Likelihood to respond to each of the current marketing offers



ERROR: stackunderflow
OFFENDING COMMAND: ~

STACK: