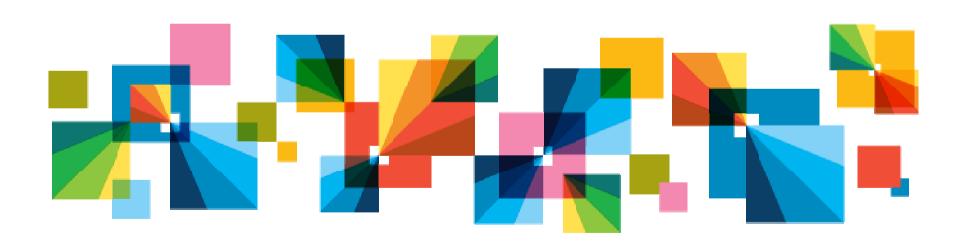


Keeping your loyal customers satisfied and your satisfied customers loyal





Agenda

- 09:00 Welcome
 - Tony Boobier, Insurance Executive EMEA, IBM Business Analytics
- 09:15 CMO Point of View
 - Caroline Taylor, VP Marketing, Communication & Citizenship IBM UK & Ireland
- 10:00 Break
- **10:15 Customer Analytics to win customers and grow your Business**Rachel Pillsbury, CRM Manager Data Mining, Boots
- 11:05 Big Data and why it is critical to successful growth
 Noel Garry, Big Data Analytics Insurance Leadership, IBM
- 11:50 Wrap up and Close
- 12:00 Lunch



- 'You can't just ask customers what they want and then try to give that to them. By the time you get it built, they'll want something new.'
- 'In addition to building better products, a more open world will also encourage businesses to engage with their customers directly and authentically.'
- We don't want to push our ideas on to customers, we simply want to make what they want.'
- Our purpose is to deliver products and services that help people look and feel their best.'











Analytics Provides Insight

All information

All information
Transaction data
Application data
Machine data
Social data
Enterprise content

All people

All departments
Experts and non-experts
Executives and employees
Partners and customers

All perspectives

Past (historical, aggregated)
Present (real-time)
Future (predictive)

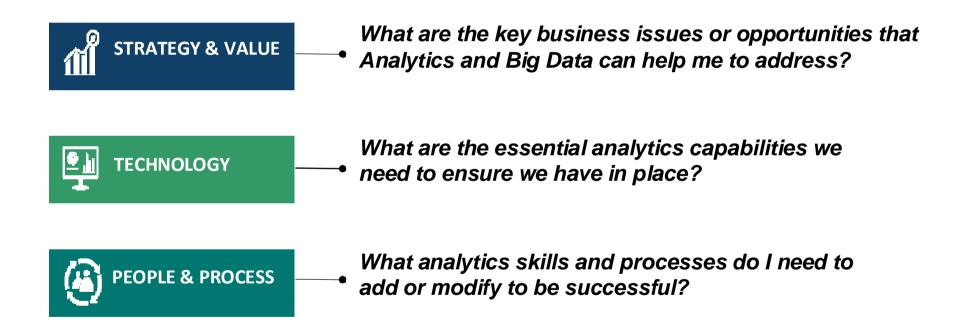


Major and minor Strategic and tactical Routine and exceptions Manual and automated



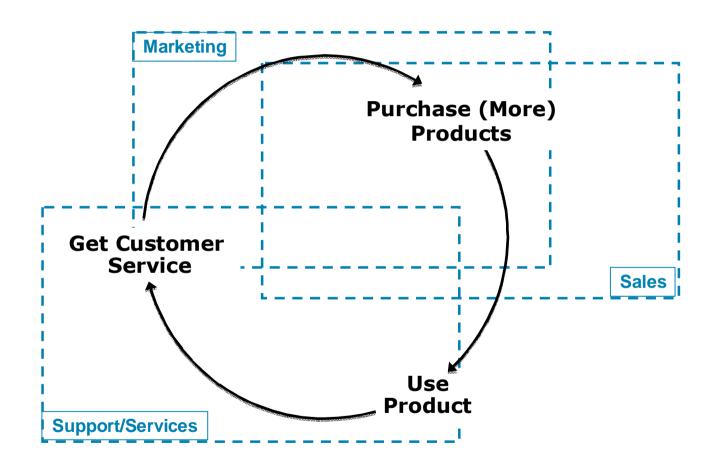


How organisations are evolving their Analytics journey



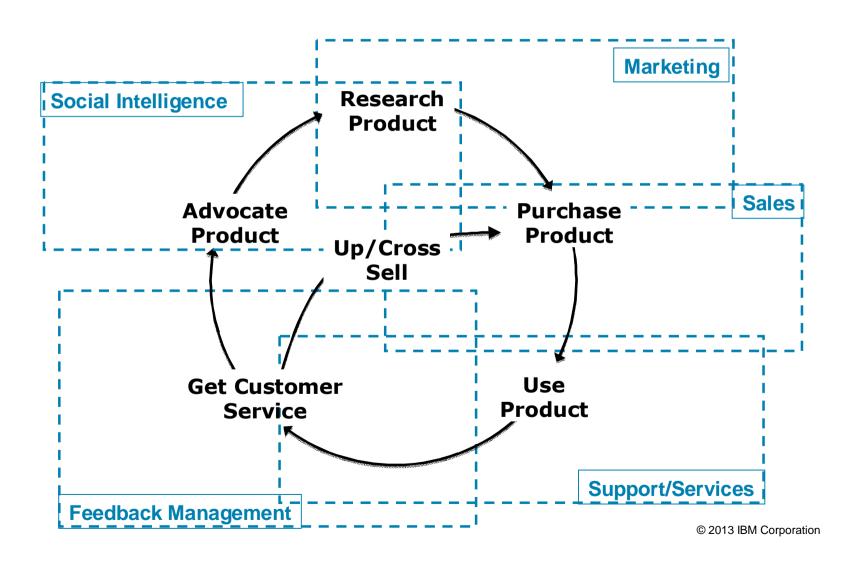


Consumer Experience Framework – 10 years ago





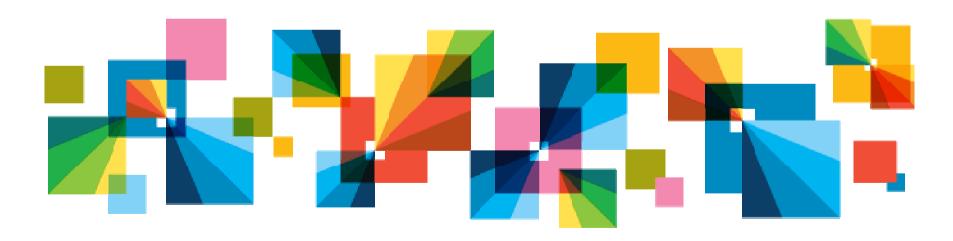
Customer Experience Framework today





The CMO - an IBM Point of View

Caroline Taylor VP Marketing, Communications & Citizenship IBM UK & Ireland



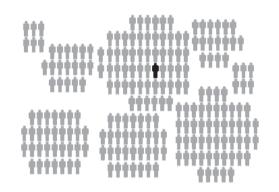


Chief Marketing Officers – radically remaking our profession

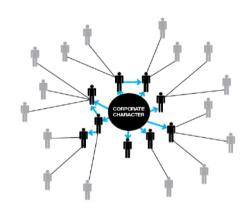
Marketers have always been responsible for *knowing* the customer

Marketers have always been responsible for defining *what* to market, and *how* to market it

Marketers have always protected the *brand promise*



MEDON MEDON



Understanding each customer as an *individual*

Creating a system of engagement that maximises value creation at every touch

Designing your culture and brand so they are *authentically* one



How to Win Customers and Grow Your Business

Customer & Marketing Insights – Loyalty

Team

April 2013

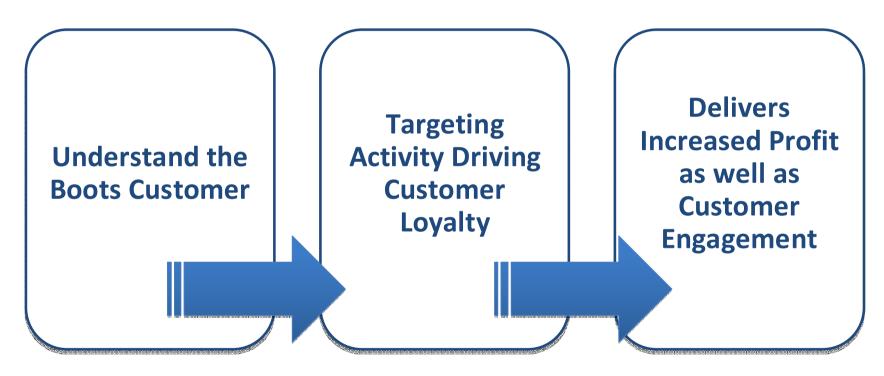
Rachel Pillsbury

CRM Manager – Data Mining



What is Our Role?

To Deliver Outstanding Insight Driven Direct Communications:





Today's Presentation

The Journey Towards Delivering Feel Good





The Boots Brand Mission

Why Have We Transformed Our CRM Capability?

- The Changing Role Of Boots in Customers' Lives
- Dynamic Relationships with Customers
- Building a Great Customer Relationship



The Role Of Boots In Customers' Lives

1870

1950

2012





Champion
Everyone's
Right to Survival

Champion
Everyone's
Right to a Basic
Standard
of Health &
Beauty

Champion Everyone's Right to FEEL GOOD

Motivation is Consistent, Expression Changes

Changing Relationships With Our Customers



Pre-2012

Personal Relationships

High Street but Local Use

Understanding Your Customer

2012

Continue Previous Relationship

Relationships Develop in Many Different Ways

Stores: 2,600+

People: 71,000+









The Objective Is To Be Customer Led



Building A Great Customer Relationship

To Deliver 'Feel Good' We Must...





To Deliver 'Feel Good' We Must Understand Women

- Women Account for the Majority of Sales in All Major Categories
- 95% of Our Card Holders are Women
- 80% of Our Colleagues are Women



Boots Understands Women Through Great Insight



Advantage Card is at the Core



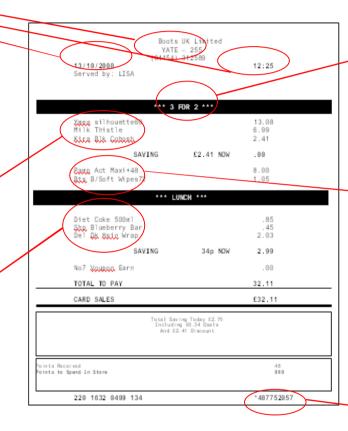


Buys vitamins – health conscious



Buys into meal deal offer





3 for 2 offers

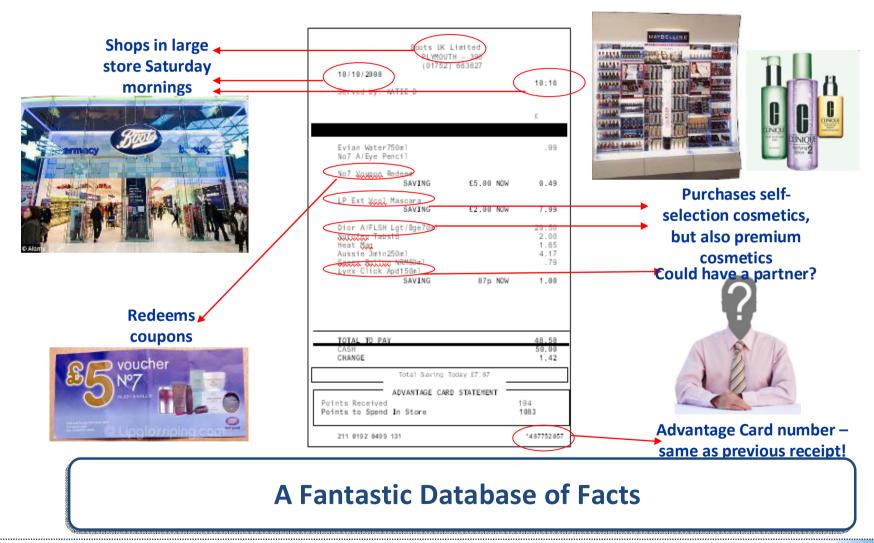
3 for 2 Mix & Match

Is a parent with a young baby



Advantage Card number

Understanding Laura every time she shops





Bringing it All Together: Insight Driven Communication

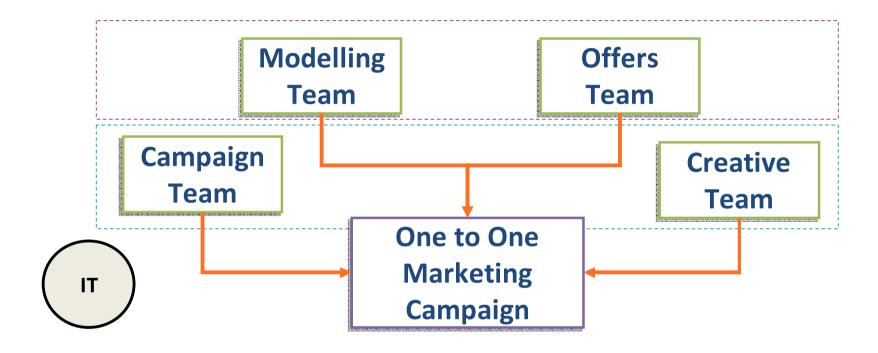


Building on Insights to Deliver Results



Empowering People

Structuring to Maximise Potential



Allowing Marketers to do What they do Best



Understanding the Boots Customer: Data Mining

Demographic Data:

We know who the customer is



Transactional Data:

We know what they bought



Contact Data:

We know who Received Comms and Offers



Response Data:

We know who responds to offers



Who to Speak to? About What?



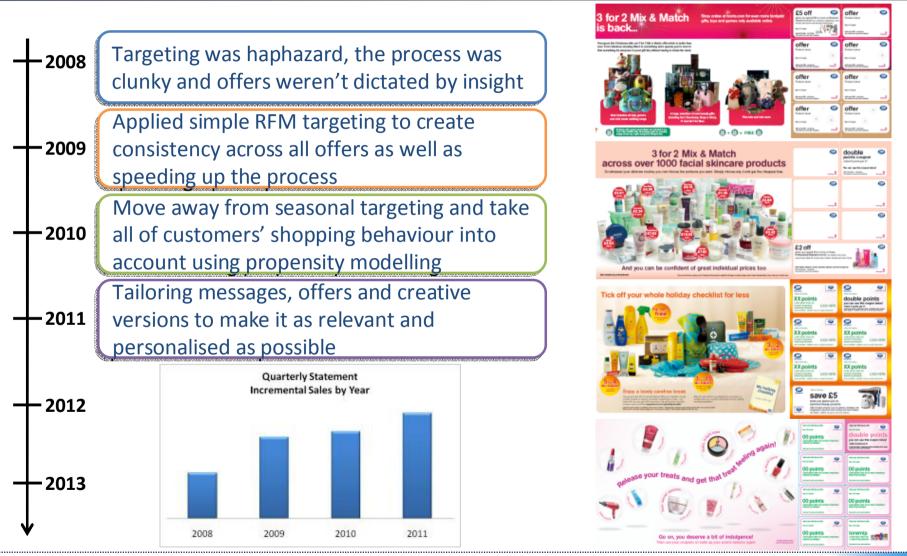
Targeting to Deliver Feel Good

The Role of the Data Mining Team

- Case Study 1: Quarterly Statement
- Case Study 2: No7 CRM Programme
- Case Study 3: Targeting at the Till
- Case Study 4: Customer Evenings



Case Study 1: Quarterly Statement





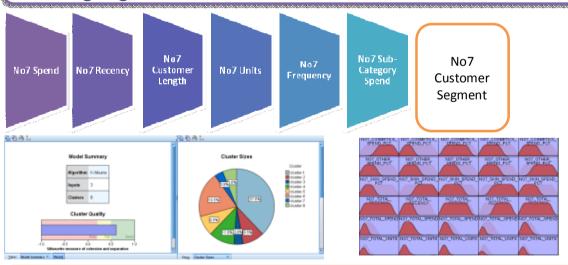
Case Study 2: No7 CRM Programme

OBJECTIVES:

- Drive No7 engagement, breadth and incremental spend through regular targeted direct communications
- Understand customer behaviour during the programme and how it changes
- Test and learn

Broad targeting with detailed segmentation and strict control groups to understand what works and what doesn't

K-means Clustering used to identify important variables for defining segments



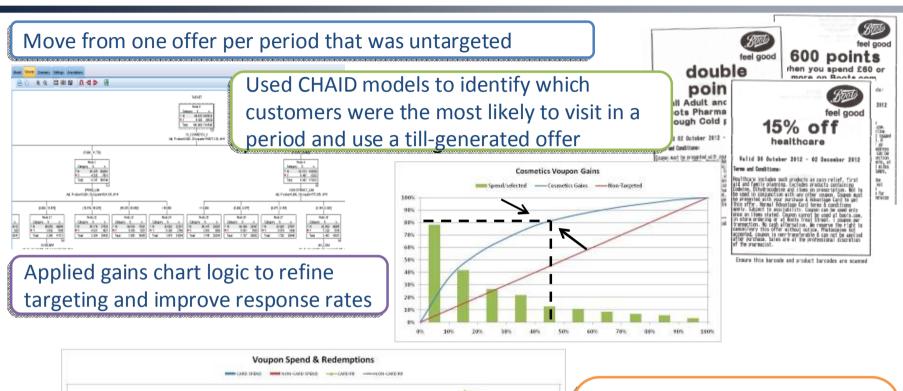
Segmentation refreshed monthly to track changes in behaviour







Case Study 3: Targeting at the Till



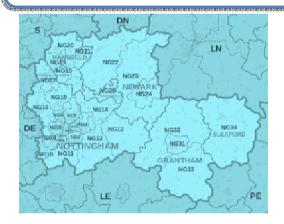


Increase in Customer Engagement
Increase in Spend
Increase in Redemption Rates
Increase in Customer Frequency



Case Study 4: Customer Evenings

Customer Evenings Were Poorly Targeted – Not Customer Led

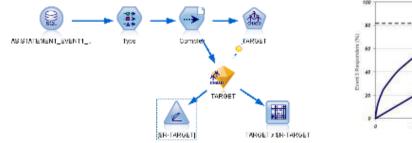


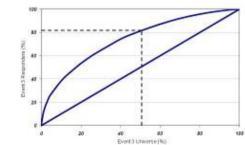
Focused on getting the right suggestions to each customer by using each customer's buying history

stus Result1								
ACCOUNT_NUMBER	STORE_NUMBER	STORE_TYPE	SALES	TXNS	TOTAL_SALES	TOTAL_TXNS	SALES_PCT	TXNS_PC1
	93	NULL	15.85	4	195.64	44	8.08	9.09
	123	NULL	6.20	2	195.64	44	3.03	4.55
. 4	1483	EVENT STORE	165.16	36	195.64	44	85.85	81.82
	1840	EVENT STORE	8.43	2	195.64	44	4.04	4.55
•	949	NULL	94.44	13	128.47	16	74.74	81.25
	6701	NULL	25.60	2	128.47	16	20.20	12.50
	1483	EVENT STORE	31.51	3	60.42	6	52.52	50.00
1.7	1849	NULL	386.81	22	390.29	23	101.00	95.65
	77	EVENT STORE	64.76	8	75.32	11	86.86	72.73
	1840	EVENT STORE	10.56	3	75.32	11	14.14	27.27



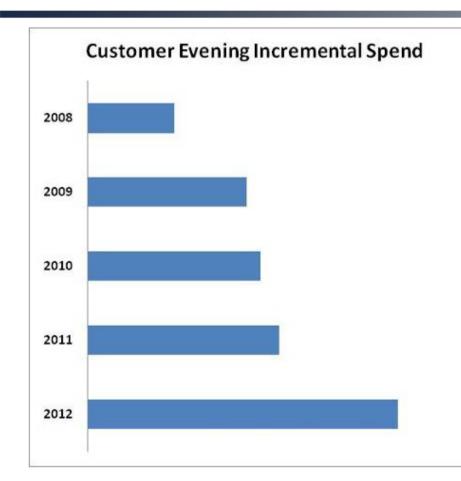
Refined the targeting to improve relevance and likelihood to visit







Case Study 4: Customer Evenings



2008: Poor Targeting

2009: Applied RFM targeting to find customers' favourite stores

2010: Applied propensity modelling to achieve maximum responses from minimum mailings

2011: Introduced multi-channel targeting to increase customer awareness

2012: Refined propensity model and store list to attract the best customers

Bringing all elements of targeting together to maximise spend and minimise costs.



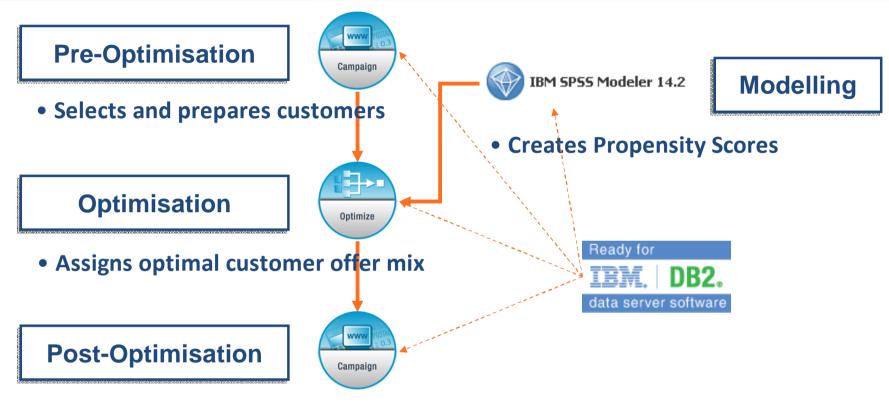
Joined Up Communications

Getting the Message Out to Customers

- The role of Optimisation
- Multi-Channel Optimisation
- Future Challenges



Delivering a Clear, Manageable Process



Processes Optimise Decisions and Output

Efficient Process Increases Output Quality



Multi-Channel Optimisation





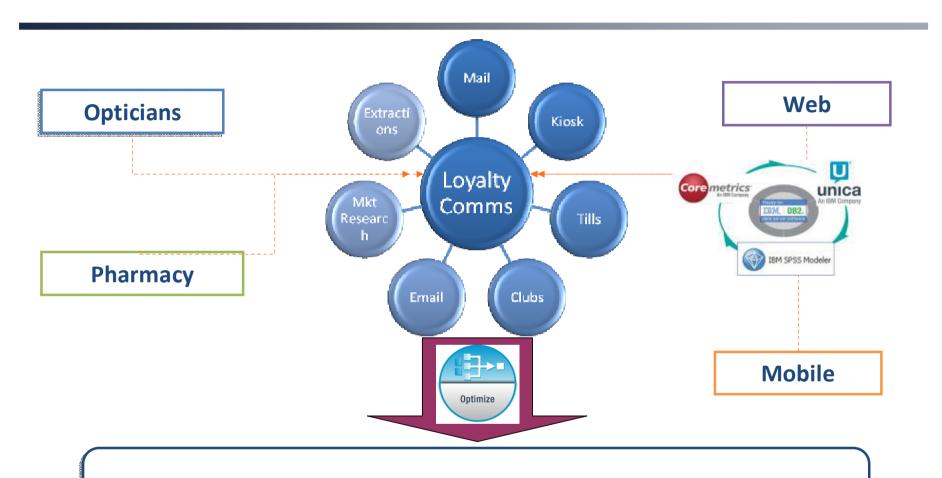
Traditionally a Direct Mail Focus

Now Active via Multiple Channels

Delivering Feel Good in All Interactions



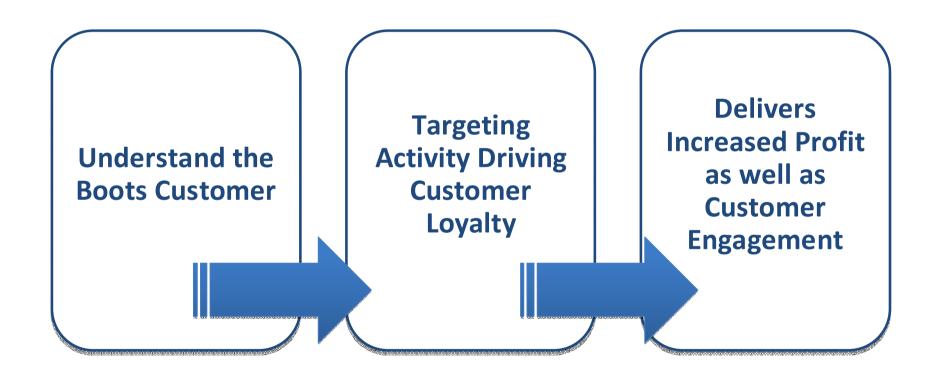
The Challenge of Growing Complexity



Coherent, Planned, and Profitable Touch-Points



Delivering the Boots Mission and 'Feel Good'





Thank You & Questions

rachel.pillsbury@boots.co.uk





Big Data and why it is critical to successful growth

Noel Garry, European Big Data Insurance Leader





Business Models are under Constant Threat

Demanding and connected customers

Brands built and destroyed in days

Great relationships trump great products



Telecommunications

Transforming their use of network data into new revenue streams



Electronic Retailing

Disrupted by social media, networks and mobile commerce



Political Campaigns

Game changing targeting and recruitment of individual voters

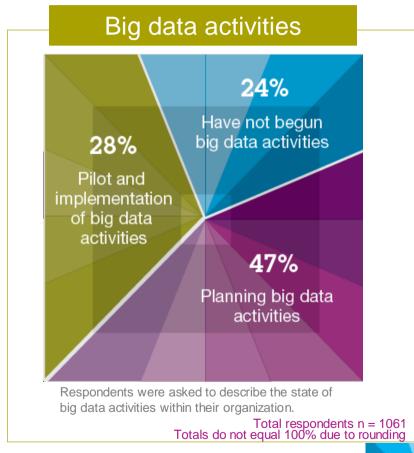
Not changing is the same as losing





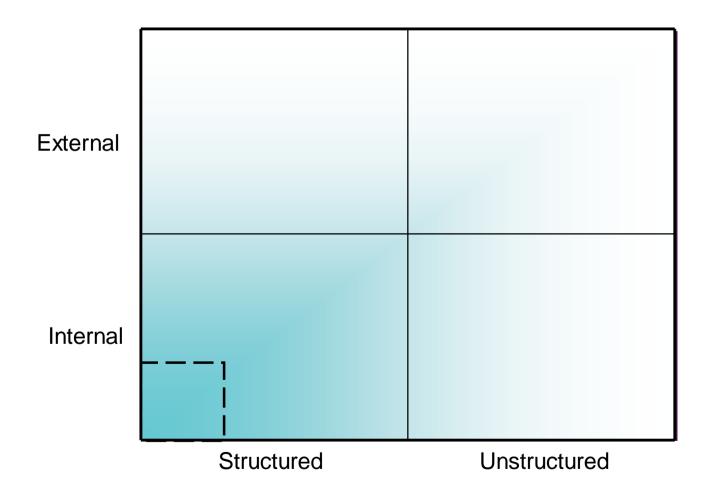
Three out of four organizations have big data activities underway; and one in four are either in pilot or production







Most companies only use a fraction of available data







Change is Being Fueled by Disruptive Technology Factors





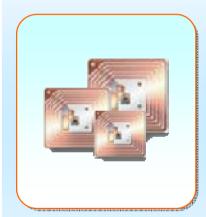
Big Data is All Data and All Paradigms

Transactional & Application Data



- Volume
- Structured
- Throughput

Machine Data



- Velocity
- Semi-structured
- Ingestion

Social Data



- Variety
- Highly unstructured
- Veracity

Enterprise Content



- Variety
- Highly unstructured
- Volume



Every Industry can Leverage Big Data and Analytics



Banking

- Optimize Offers and Cross Sell
- Contact Center Efficiency and Problem Resolution
- Payment Fraud Detection & Investigation
- Counterparty Credit Risk Management



Insurance

- Claims Fraud
- Customer Retention
- Catastrophe Modeling
- Telematics
- Producer Management



Telco

- Pro-active Call Center
- Network Analytics
- Location Based Services
- IT/Network Infrastructure Transformation
- Smarter Campaigns



Energy & Utilities

- Smart Meter Analytics
- Distribution Load Forecasting/Scheduling
- Condition Based Maintenance
- Create & Target Customer Offerings



Media & Entertainment

- Business process transformation
- Audience & Marketing Optimization
- Multi-Channel Enablement
- Digital commerce optimization



Retail

- Actionable Customer Insight
- Merchandise Optimization Playbook
- Dynamic Pricing



Travel & Transport

- Customer Analytics & Loyalty Marketing
- Capacity & Pricing Optimization
- Predictive Maintenance Analytics



Consumer Products

- Optimized Promotions
 Effectiveness
- Micro-Market Campaign Management
- Real Time Demand Forecast



Government

- Threat Prediction and Prevention
- Health and human services fraud, waste & abuse
- Tax compliance fraud and abuse
- Crime prevention and prediction



Healthcare

- Measure & Act on Population Health
- Engage Consumers in their Healthcare



Automotive

- Data Warehouse Optimization
- Predictive Asset Optimization (PAO)
- Actionable Customer Intelligence
- Connected vehicle



Chemical & Petroleum

- EDW Smart Consolidation
 & Augmentation
- Operational Surveillance, Analysis & Optimization
- Engineering & Operational Data Exploration & Mining



Aerospace & Defense

- Uniform Information Access Platform
- Data Warehouse Optimization
- Predictive Asset Optimization (PAO)



Electronics / Industrial Products

- Channel Driven Customer Analytics (CDCA)
- Predictive Asset Optimization (PAO)



Life Sciences

Increase visibility into drug safety and effectiveness

The 5 Key Use Cases



Big Data Exploration

Find, visualize, understand all big data to improve decision making



Enhanced 360° View of the Customer

Extend existing customer views (MDM, CRM, etc) by incorporating additional internal and external information sources



Security/Intelligence Extension

Lower risk, detect fraud and monitor cyber security in real-time



Operations Analysis

Analyze a variety of machine data for improved business results



Data Warehouse Augmentation

Integrate big data and data warehouse capabilities to increase operational efficiency





1. Big Data Exploration



Explore and mine big data to find what is interesting and relevant to the business for better decision making

Requirements

Explore new data sources for potential value

Mine for what is relevant for a business imperative

Assess the business value of unstructured content

Uncover patterns with visualization and algorithms

Prevent exposure of sensitive information

Industry Examples

- Customer service knowledge portal
- Insurance catastrophe modeling
- Automotive features and pricing optimization
- Chemicals and Petroleum conditioned base maintenance
- Life Sciences drug effectiveness



Global automotive manufacturer gains a timely, integrated view of vehicles

The IBM Big Data platform combines at-rest vehicle data with real time data-in-use from vehicles for single, integrated, near real-time view of the vehicle and its usage.

- Monetize telematics data
- Predict demand for replacement parts and service
- Provide drivers assistance





2. Enhanced 360° View of the Customer



Optimize every customer interaction by knowing everything about them

Requirements

Create a connected picture of the customer

Mine all existing and new sources of information Analyze social media to uncover sentiment about products

Add value by optimizing every client interaction

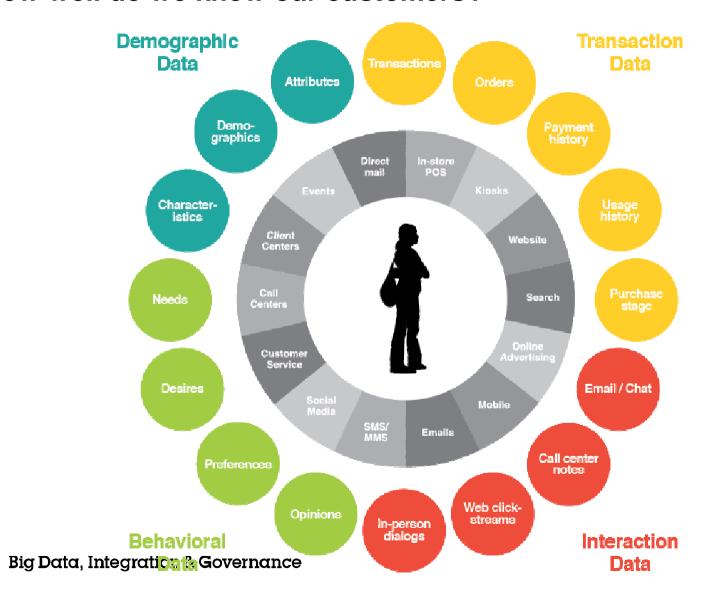
Industry Examples

- Smart meter analysis
- Telco data location monetization
- Retail marketing optimization
- Travel and Transport customer analytics and loyalty marketing
- Financial Services Next Best Action and customer retention
- Automotive warranty claims





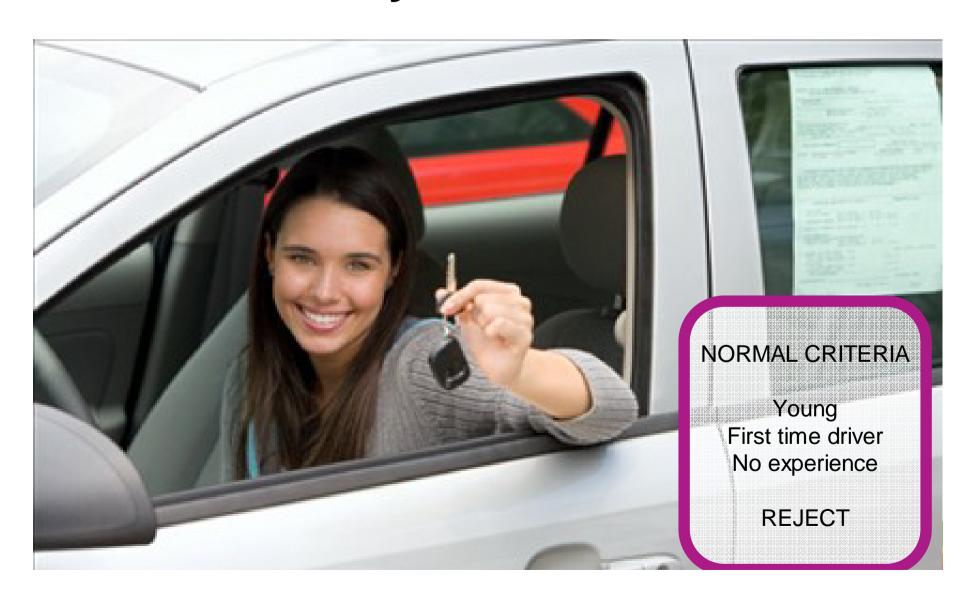
How well do we know our customers?

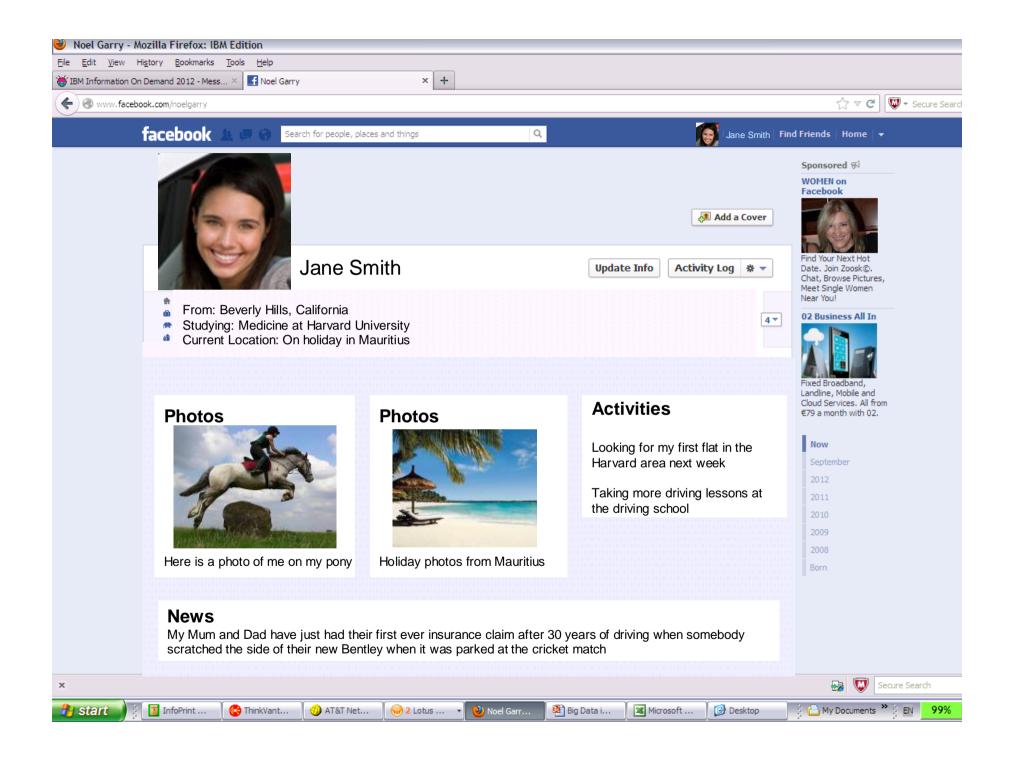






Would you insure her?







© 2013 IBM Corporation

2. Enhanced 360° View of the Customer



3. Security and Intelligence Extension



Enhance traditional security solutions to prevent crime by analyzing all types and sources of big data

Requirements

Enhanced
Intelligence and
Surveillance
Insight

Real-time Cyber Attack Prediction and Mitigation

Crime Prediction and Protection

Analyze data-in-motion and at rest to:

- Find associations
- Uncover patterns and facts
- Maintain currency of information

Analyze network traffic to:

- Discover new threats sooner
- Detect known complex threats
- Take action in real-time

Analyze telco and social data to:

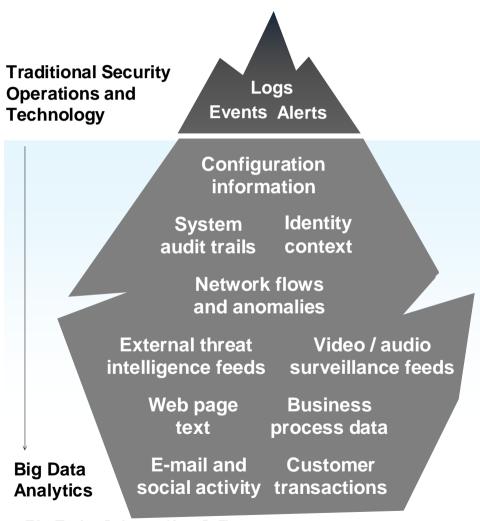
- Gather criminal evidence
- Prevent criminal activities
- Proactively apprehend criminals

Industry Examples

- Government threat and crime prediction and prevention
- Insurance claims fraud
- Credit card fraud



3. Security/Intelligence Extension



New Considerations

Collection, Storage and Processing

- Collection and integration
- Size and speed
- Enrichment and correlation

Analytics and Workflow

- Visualization
- Unstructured analysis
- Learning and prediction
- Customization
- Sharing and export





4. Operations Analysis



Apply analytics to machine data for greater operational efficiency

Requirements

Analyze machine data to identify events of interest

Apply predictive models to identify potential anomalies

Combine information to understand service levels

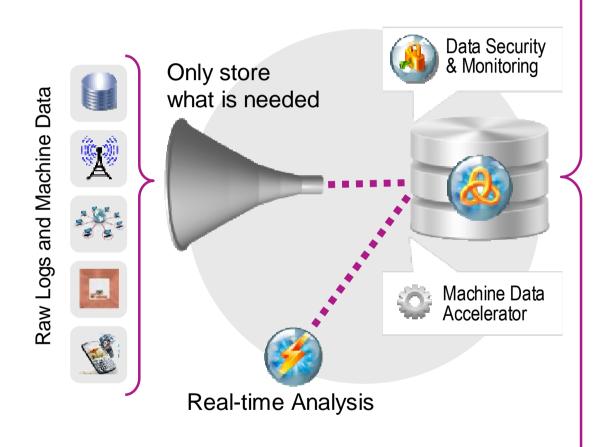
Monitor systems to avoid service degradation or outages

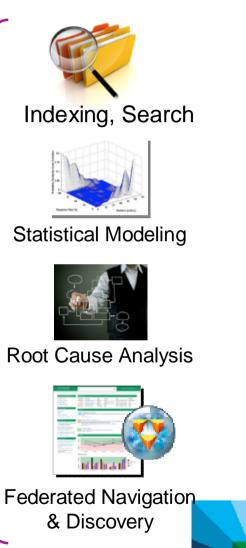
Industry Examples

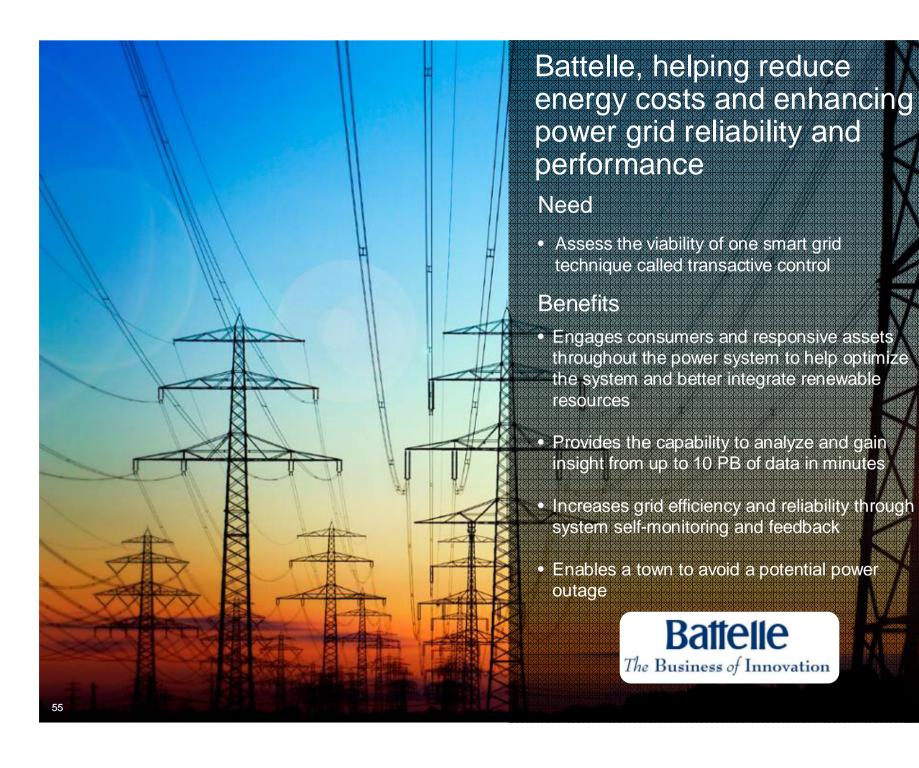
- Automotive advanced condition monitoring
- Chemical and Petroleum condition-based Maintenance
- Energy and Utility condition-based maintenance
- Telco campaign management
- Travel and Transport real-time predictive maintenance



4. Operations Analysis







5. Data Warehouse Augmentation



Exploit technology advances to deliver more value from an existing data warehouse investment while reducing cost

Requirements

Add new sources to existing data warehouse investments

Optimize storage and provide query-able archive

Rationalize for greater simplicity and lower cost

Enable complex analytical applications with faster queries

Scale predictive analytics and business intelligence

Examples

- Pre-Processing Hub
- Query-able Archive
- Exploratory Analysis
- Operational Reporting
- Real-time Scoring
- Segmentation and Modeling



Data Warehouse Augmentation



Improved analysis performance by over 40 times, reduced wait time from hours to seconds, and increased campaign effectiveness by 20+%.

Could Data Warehouse Augmentation benefit you?

- ✓ Are you drowning in very large data sets (TBs to PBs) that are difficult and costly to store?
- ✓ Are you able to utilize and store new data types?
- ✓ Are you facing rising maintenance/licensing costs?
- ✓ Do you use your warehouse environment as a repository for all data?

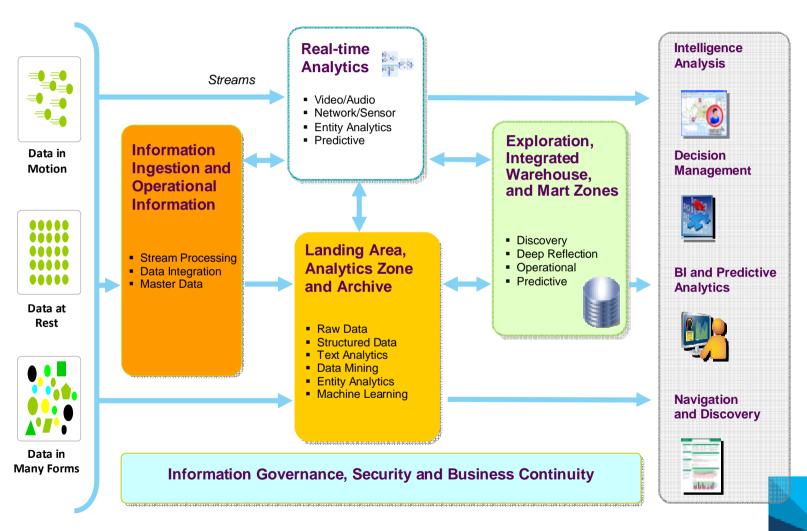
- ✓ Do you have a lot of cold, or low-touch, data driving up costs or slowing performance?
- ✓ Do you want to perform analysis of data in-motion to determine what should be stored in the warehouse?
- ✓ Do you want to perform data exploration on all data?
- ✓ Are you using your data for new types of analytics?

Product Starting Point: InfoSphere BigInsights, InfoSphere Streams





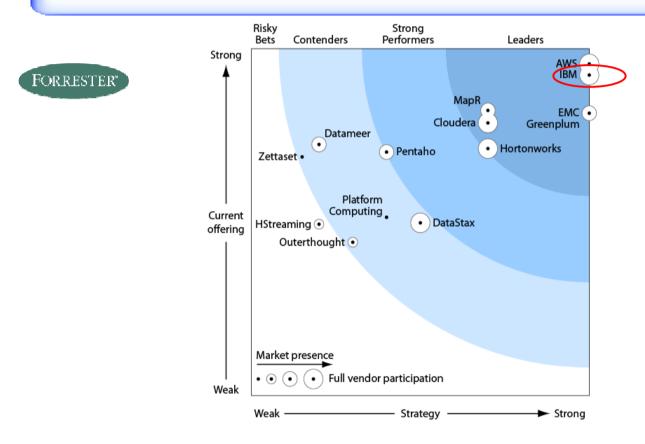
New Architecture to Leverage All Data and Analytics





Recognized for our Leadership

"IBM has the deepest Hadoop platform and application portfolio."



February 2012 "The Forrester WaveTM: Enterprise Hadoop Solutions, Q1 2012"





Get Started

Get Educated

- Forum content
- IBMBigDataHub.com
- Big Data University
- IBV study on big data
- Books / Analyst papers

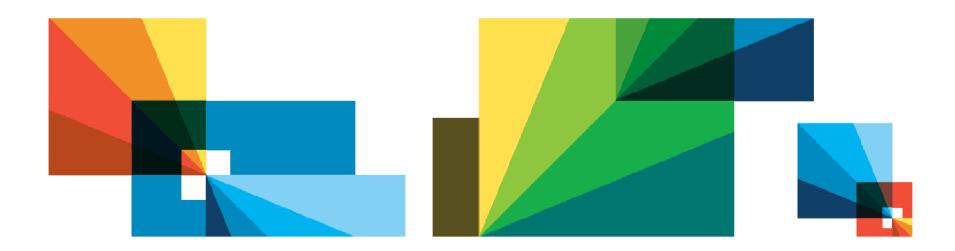
Schedule a Big Data Workshop

- Free of charge
- Best practices
- Industry use cases
- Business uses
- Business value assessment





Thank you





IBM provides a holistic and integrated approach to Analytics and Big Data



Only IBM has expanded and evolved Analytics for Big Data to...

- Fuel all decision-making with powerful analytics
- Broaden analytic adoption without silos
- Analyze all data wherever it lives
- Accelerate business value with solutions that have built-in analytics expertise

...so organizations can find what is business relevant in big data and make it instantly actionable





IBM offers support to help organizations achieve success with their Analytics and Big Data initiatives

AnalyticsZone by IBM

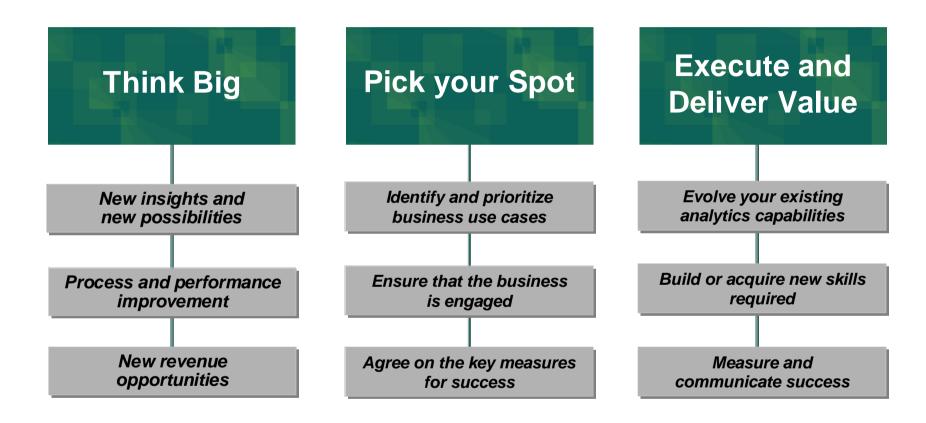
CMO Study: www.ibm.com/services/c-suite/cmo/







Get started!





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Thank you for attending today

Tony Boobier boobier@uk.ibm.com

