

BA 101 presentation

Purpose: The purpose of the BA deck is to:

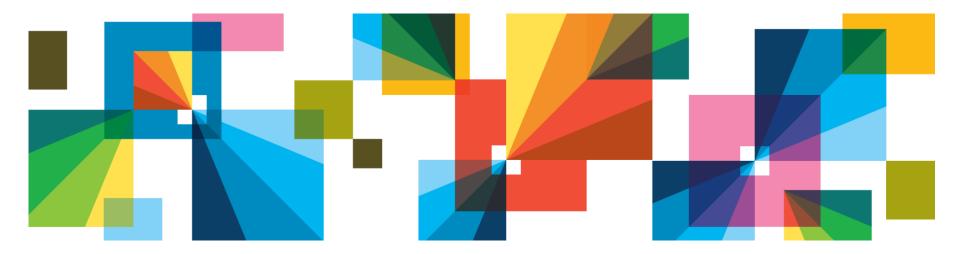
- Drive a sense of urgency for why analytics, why now
- Communicate IBM's POV on infusing analytics into the fabric of an organization
- Communicate the breadth of IBM's BA offerings, within a framework that keeps it simple
- Show why we are superior to the competition
- Provide a consistent way for presenting the BA portfolio
- Audience: As this deck will represent a standard "stump speech" it should be consumable by a broad set of roles:
 - CEO, CFO, CRO, CMO, COO
 - Mid-level LOB leaders
 - IT
- **Usage**: The usage of this deck would be client-facing meetings or events where an introduction to IBM's BA portfolio is required. In-depth decks (BA 201) would ladder down from this, going to the next level of detail.

REMOVE THIS SLIDE FOR EXTERNAL PRESENTATIONS



September 6, 2012

Outperform with IBM Business Analytics





Today's organizations are facing many **DISRUPTIVE FORCES** fueling the need for analytics



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The pressures on organizations are at a point where analytics has evolved from a business initiatives to a **BUSINESS IMPERATIVE**

More organization are using analytics to create a competitive advantage

Respondents who believe analytics creates a competitive advantage



Source: The New Intelligent Enterprise, a joint *MIT Sloan Management Review* and IBM Institute of Business Value analytics research partnership. Copyright © Massachusetts Institute of Technology 2011

And leaders are outperforming their competitors in key financial measures

16X Revenue Growth

2.0X EBITDA Growth

Source: *Outperforming in a data-rich, hyper-connected world*, IBM Center for Applied Insights study conducted in cooperation with the Economist Intelligence Unit and the IBM Institute of Business Value. 2012

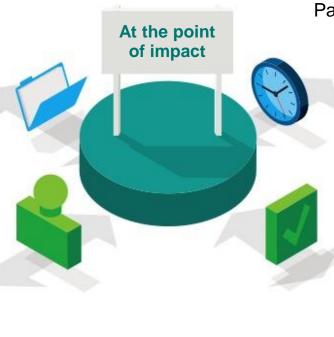
2.5X Stock Price Appreciation



ANALYTIC-DRIVEN ORGANIZATIONS are distinguished by their ability to leverage ...

All information

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



All perspectives

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

All decisions

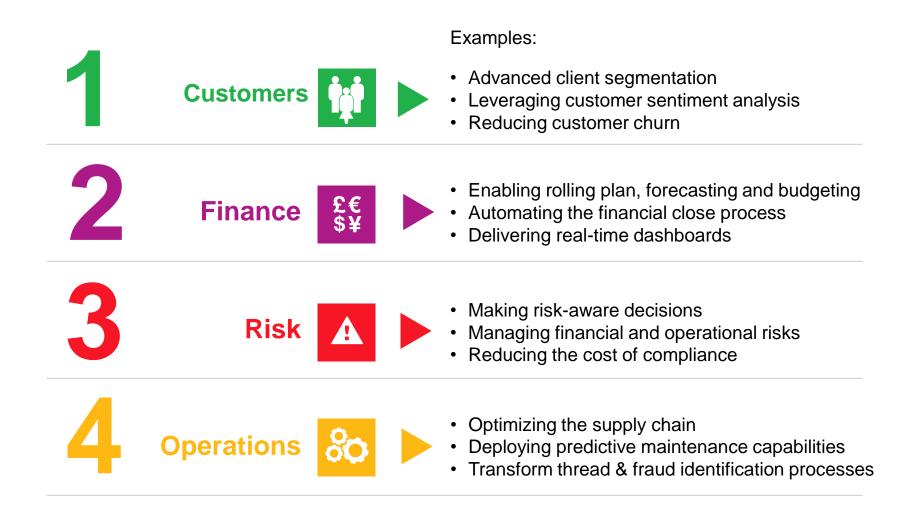
Major and minor Strategic and tactical Routine and exceptions Manual and automated

All people

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

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...and focusing on high-value initiatives in core BUSINESS AREAS



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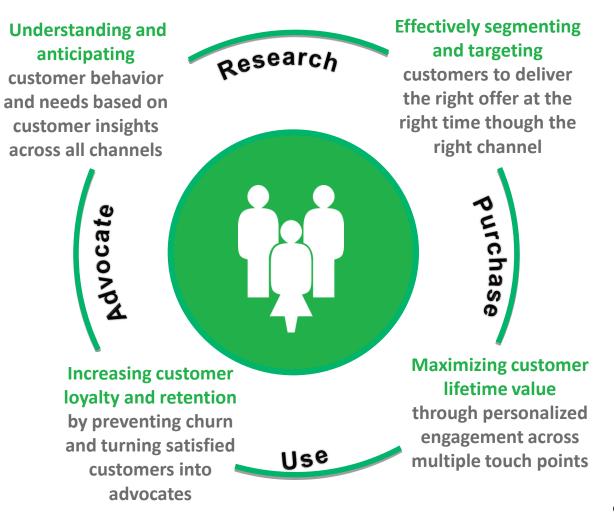
CUSTOMER ISSUES & CHALLENGES

Decreasing Loyalty Consumerization of IT Intensifying Competition Social Networking Soaring Customer Expectations Increasing Transparency Globalization Channel Proliferation and Complexity Mobile Commerce Shrinking Wallet Share

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In this ERA of the EMPOWERED CONSUMER, organizations are focused on optimizing the customer experience

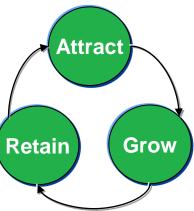




IBM solutions enable organizations to ATTRACT, GROW and RETAIN CUSTOMERS

Attract

Customer Analytics Solutions



- Reduce wasted acquisition costs due to improved segmentation
- Deliver the right message at the right time and through the right channel

Grow

- Analyze and predict trends in behavior and sentiment to cross-sell/up-sell
- Collect all data regardless of format & location to create 360° customer • view

Retain

- Detect customers at risk of churning, deliver right offer to make them stay
- Identify full & near advocates, develop nurture communications strategy







Outperforming organizations attract, grow and retain **customers**



Understand and anticipate customer behavior and needs

Effectively segment and target to deliver the right



Smarter customer insights

Results



 Decreased campaign management and data processing times by 90%

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COMPARISON: Customer Analytics



Capture

Coherent, 360° View of the Customer

- · Collect voice of the customer through survey research
- Data mining and preparation across all customer data silos
- Social media monitoring and analysis

Comprehensive Analysis for Actionable Insight

- Powerful, yet easy to use predictive modeling workbench
- Rapid, accurate insights and predictions regardless of where the data resides

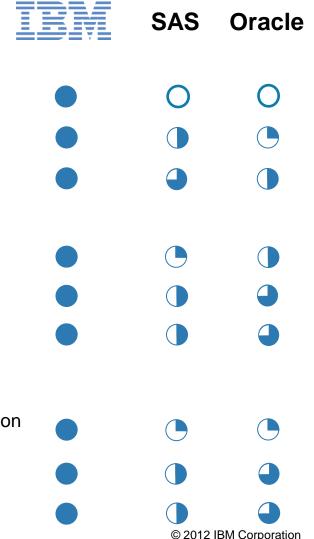
Analyze

Complete analysis of all data formats



Act

- **Deliver Next Best Action at Point of Impact**
- Combine predictive models, business rules, and optimization for best of breed solution
 - Personalize every customer interaction in real-time by
 - embedding into operational systems
 - Measure and share performance across the organization



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FINANCE ISSUES & CHALLENGES

VolatilityExpenseRisk GrowthReportingForecastingCash FlowShareholdersRevenuesRegulationTransparencyUncertaintyWorking CapitalCapitalProfitabilityVariability

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As finance evolves, organizations need to understand **WHAT** happened, **HOW** they are doing, and **WHAT** the future may hold



WHAT HAPPENED?

- Balance sheet, profit and loss, and cash flow statements
- Revenue and cost variance analysis

HOW ARE WE DOING?

- Customer and product profitability
- Spend optimization
- Working capital analysis
- Market, customer, & channel pricing
- Sales and supply chain effectiveness

WHAT WILL HAPPEN NEXT?

- Cash forecasting
- Scenario-based planning and forecasting
- Strategic investment decision support
- Volatility and risk-based predictive and behavioral modeling

Finance

Solutions

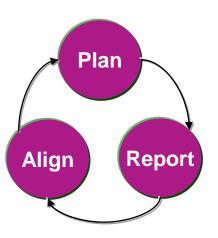




IBM solutions help organizations **TRANSFORM financial PROCESSES** and drive improved performance

Plan

- Improve visibility with driver-based and predictive forecasts
- Rapidly adjust and realign resources



Report

- Deliver fast, reliable performance reports and analysis
- Automate financial close process
- Meet new disclosure and filing mandates (XBRL)

Align

- Define, measure, and adjust strategy with metrics
- Deliver engaging, up-to-the-minute dashboards

S	Reporting & Analysis		Predictive Analytics		
Capabilities	Scorecarding & Dashboarding	Planning, Budgeting & Forecasting Financial Consolidation	Disclosure Management	Profitability Modeling & Optimization	





Outperforming organizations transform processes in **finance**



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COMPARISON: Financial Analytics



Time

Drive efficiencies and scale

- Eliminate intensely manual efforts
- Structure and automate dynamic processes
- Scale to large user communities and data sets



Gain agility and preparedness

- Link operational and financial performance management
- Support advanced analytic techniques (e.g., scenario

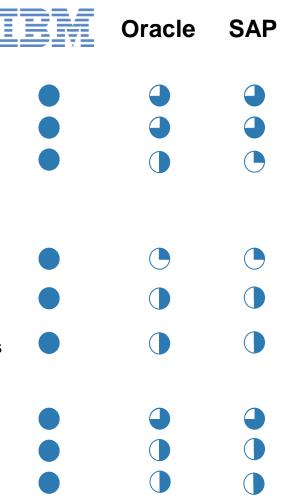
Control

- and predictive analytics, narrative performance reporting)
 - Eliminate delays in coordinating around to emerging realities



Improve effectiveness and outcomes

- Dramatically reduce risk of errors
- Cost-effectively address compliance
- Confidence Drive new confidence in analytics-driven decision making





RISK ISSUES & CHALLENGES A **Increased regulatory oversight** Liquidity **Risk information silos Basel III Solvency II Risk exposure Rogue trading Risk Convergence Capital charges Dodd-Frank**





Firms are looking to optimize business outcomes through horizontal and vertical **RISK INTEGRATION**



Horizontal

Horizontal integration to

integrate "silos" and enable a comprehensive view of risks across firms

Vertical integration linking

risk management to business processes

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IBM Risk Analytics solutions help address today's risk management challenges

Financial Risk

Understand the impacts and act on financial uncertainly and exposure across your business including: Market Risk; Credit Risk and Collateral; ALM & Liquidity Risk; Capital Management and Actuarial Risk.

IT Governance and Risk

Sustain compliance across multiple IT best practice frameworks and understand the impact of IT risk, threats and vulnerabilities to the business processes they support.



Operational Risk

Manage operational risk to improve visibility into risk exposure across the enterprise, reduce unexpected losses and improve business performance.

Regulatory Compliance

Manage regulatory change and provide senior management with confidence that regulatory compliance is achieved, risks are mitigated and corporate policies are enforced.





IBM Risk Analytics Solutions enable **RISK-AWARE business DECISIONS** and **improved compliance management**

Financial Risk: Sell Side (Banks and Financial Markets)

- Strategic Business Planning
- Balance sheet risk management
 - ALM & liquidity risk
 - Regulatory & economic capital

- Credit lifecycle management
- Integrated market and credit risk
 - Counterparty credit risk & CVA
 - Collateral management
- Integrated Financial Reporting & Analysis

FRM	FRM	
Sell Side	Buy Side	
GRC Re	erational Risk Governance & Risk gulatory mpliance	

Risk

Solutions

Financial Risk: Buy Side (Asset Owners, Servicers and Managers)

- · Portfolio construction and risk management for investment portfolios
- Economic Capital & Solvency II
- Actuarial and financial modeling

Governance, Risk & Compliance (GRC)

- Operational risk management
- Loss event case studies & database
- Governance and IT risk

- Policy and compliance management
- Enterprise disclosure management
- Financial controls management
- Internal Audit

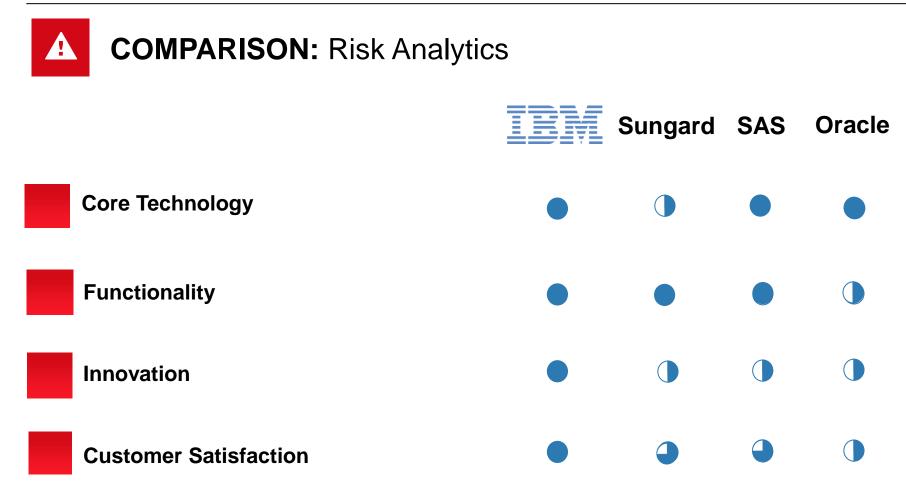




Outperforming organizations manage regulatory compliance and **risk**







See Chartis RiskTech 100 Vendor Rankings, 2011 for additional information <u>Access the Chartis RiskTech100 report here (PDF, 413KB</u>)

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OPERATIONAL ISSUES & CHALLENGES

Demand Shaping Fraud Assets Processing Inventory Real-time Improvement Waste Abuse Sustainability Supply Optimization Efficiency Costing Variability Compliance

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Operational visibility paired with performance optimization and analytics is driving new levels of **DYNAMIC DECISION MAKING**



Infolione Success Names					
Anne Colleg Carled	by table	place By Dearcost	Ny West		
Witten Cargo					
Pl lines				6222-	11
REPORTED	Sector	value	Longer	noise in manpe	
Average order Amount		4553.43	5000		
wangs order rulliment	19	110, 1110, 1219, 4515	2 10, 10 10, 10 10, 10 10 🖿		
Tatal Kumbor of Sales	188	3	100		
Tatal Balas Armorit	181	24385	1000000		
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View specific, personalized business dashboards....

...based on business processes and external events...





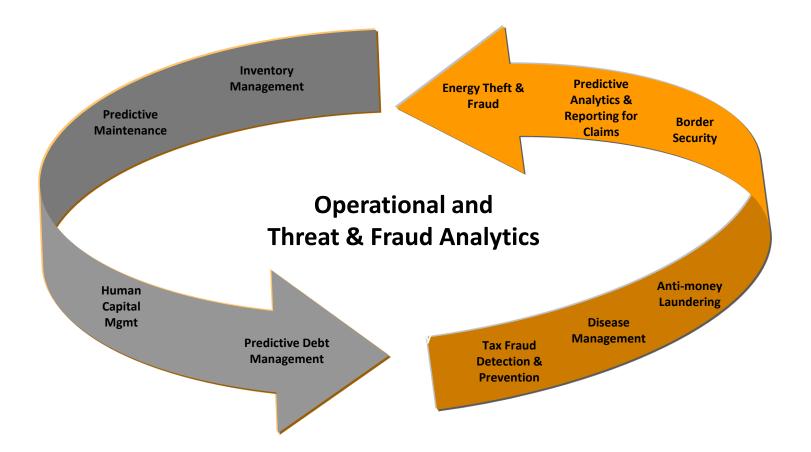
...configured based on business rules and business policies...

...augmented with advanced analytics to suggest next best action, creating an environment of competitive agility that is game-changing.





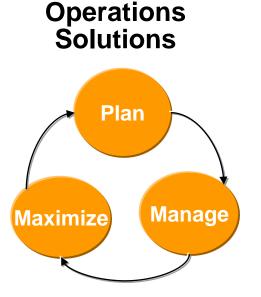
IBM has both **OPERATIONAL** and **THREAT & FRAUD** analytics solutions tailored by industry



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IBM operations solutions help plan, manage, & maximize to **INCREASE EFFICIENCY AND PROFITABILITY**



Plan

- Allocate future expenditures in most efficient manner
- Ensure the right quantity of the right product is available at the right time and location

Manage

- Enhance existing operational processes
- Improve employee productivity and effectiveness

Maximize

- Extend longevity of infrastructure and equipment
- Improve asset and employee performance







Outperforming organizations increase efficiency in operations



analysis

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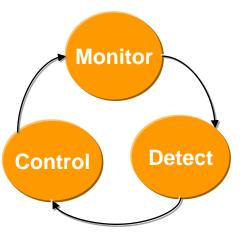


IBM threat & fraud solutions help organizations **TRANSFORM PROCESSES** and drive improved performance

Threat & Fraud Solutions

Monitor

- · Gain insight into your environment
- Incorporate a wide variety of data from multiple sources



Detect

- Automate the identification of suspicious behavior
- Applicable to a wide range of threats, information breeches, crime & fraud

Control

- Deliver the best response to reduce exposure or loss
- Maximize the impact of the action taken

ies	Reputiting, Analysis, &		ta & Text Mining	Predictive Analytics
Capabilities	Planning, Budgeting & Forecasting		Business Rules & Optimization	Statistical Analysis
	Modeling	Real-time Decisions	Forecastir Simulatio	





Outperforming organizations

transform threat & fraud identification processes

Need:

Identify

fraud early with a predictive analytics solution

Improve

productivity and reduce cost

Santam

Smarter fraud detection

Results:

- Identified major fraud ring less than 30 days after implementation
- Saved more than USD 2.5 million in payouts to fraudulent customers
- Reduced claims processing time on low-risk claims by nearly 90%

IE

Oracle

SAS



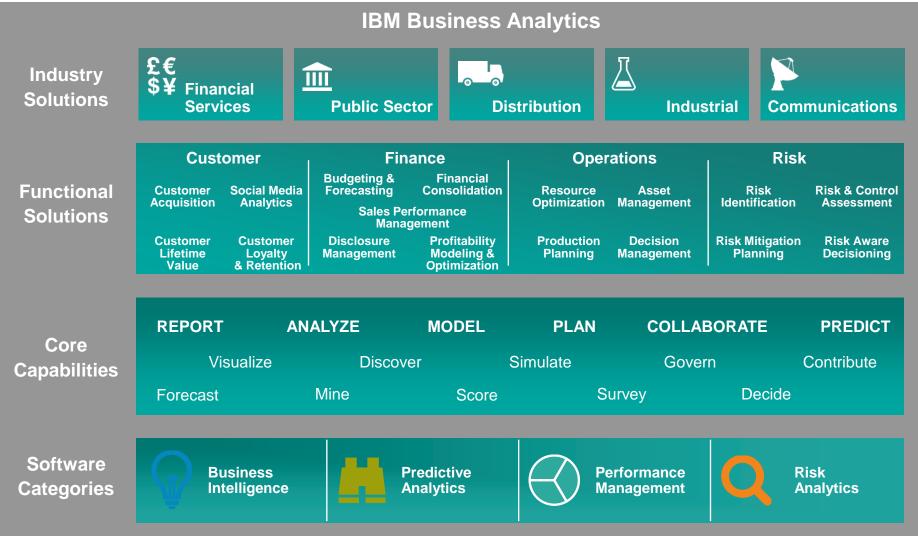
COMPARISON: Operational, Threat & Fraud Analytics



	Gain Insight into Business Processes			
	 Collect additional data from all stakeholders with advanced survey capabilities 		0	0
Visibility	• Easily create dashboards, scorecards, and reports for mobile,			
	desktop, and enterprise views			\bigcirc
	Leverage forecasting and planning capabilities to ensure future			
	success Comprehensive Analysis for Actionable Insight			
Ê	 Utilize user-friendly, predictive analytics workbench for 	\bigcirc		\bigcirc
Analysis	structured, text, and social media information			
, mai y ene	Ensure all data is analyzed, regardless of where the data resides, due to open architecture			
	resides, due to open architectureLeverage manual-driven and machine-learning techniques to			
	gain insights			
62	Deliver Next Best Action at Point of Impact			
NJ	 Combine predictive models, business rules, and optimization for best of breed solution 			
Integration	Enhance real-time decision-making by embedding insights into			
-	existing processes			\bigcirc
30	 Measure and share performance across the organization 		© 2012 IBM C	orporation

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IBM delivers the broadest Business Analytics portfolio to drive better business outcomes



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And has the industry experience to help clients address key imperatives

		£€ \$¥				
		Banking/Insurance	Government	Retail	Industrial	Telecommunications
	Customer	Create a Customer-centric Enterprise	Improve Citizen Services	Optimize the Shopping Experience	Plan & Forecast Demand	Reduce Customer Churn
	£€ \$¥ Finance	Ensure Financial Transparency	Manage Resources Effectively	Demand Planning	Sales and Operations Planning	Optimise Capex and Opex
	80 Operations	Streamline Operations	Measure Program Performance	Improve Store Operations	Enable Predictive Maintenance	Build Smarter Networks
	A Risk	Optimize Risk and Manage Compliance	Reduce Fraud and Waste	Manage Operational Risk	Manage Operational Risk	Manage Operational Risk

Smarter Analytics





IBM Business Intelligence

Transform data into meaningful information to help organizations make the best business decisions

- Provide users with reporting, analysis, modeling, planning and collaboration capabilities to explore information, analyze key facts and make decisions
- Support every type of user with capabilities for the office and desktop, on mobile devices, online and offline
- Compare historical, current and predictive results side by side
- Integrate "what-if" analysis to compare alternative scenarios to determine the best action
- Adapt to the changing needs of the business and IT with flexible deployment options

Analytics in the hands of everyone

IBM Performance Management

Guide management strategy in the most profitable directions with timely, reliable insights, scenario modeling and transparent reporting

- Link financial and operational plans through driver-based models.
- Guarantee the quality and accuracy of financial numbers for timely, sustainable compliance.
- Track performance against strategic objectives.
- Perform "what-if" scenario modeling and create flexible rolling forecasts.
- Replace rigid budgets with continuous planning—daily, weekly, or monthly

Performance reporting and scorecarding





IBM Predictive Analytics

Discover patterns and associations and deploy predictive models that optimize decision-making

- Enable data and predictive modeling to guide front-line interaction
- Uncover unexpected patterns and associations
 from all data within your organization
- Perform advanced analytics, data mining, text mining, social media analytics and statistical analysis
- Use customized functionality for different skill levels
- Deliver optimized decisions to your operational systems and decision makers.

Optimized decisions made possible





Q IBM Risk Analytics

Make risk-aware decisions and meet regulatory requirements with smarter risk management programs and methodologies

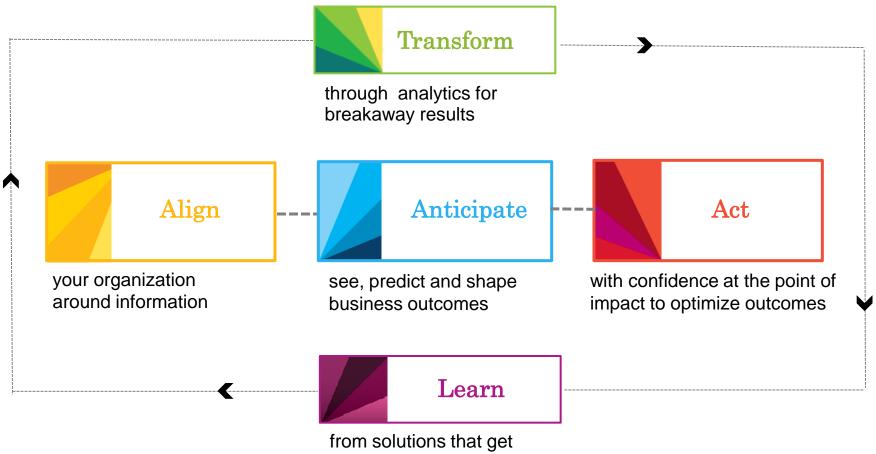
- Improve decision making by providing risk insight and transparency to business decisions
- Increase your return on capital by making better informed decisions
- Reduce the cost of compliance
- Accelerate and streamline risk processes reduce cost and operational risk and transform our clients' customer business
- Dynamically evolve as risk practices and regulations change



Reduce complexity while improving governance

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Business Analytics is core to **IBM SMARTER ANALYTICS** – helping clients anticipate and act with confidence to optimize outcomes





Why choose IBM Business Analytics?



Unrivaled

- Analytic capabilities that are dually specialized to the task and interconnected to allow shared insights across the organization
- Analytics capabilities that scale from small and midsize businesses to enterprises



Comprehensive

- Analytic capabilities for all decisions all people, all data, when and where you need them
- Multiple delivery options, including appliances, hardware, cloud and mobile



Innovative

- Nearly 600 analytics patents a year and first in overall patent ranking for the past 19 years
- Next-generation analytics systems that are able to reason and learn



Proven

- Recognized technology leader with superior R&D wins and a significant number of analytics innovation use cases
- More than 20,000 analytics engagements and 9,000 dedicated analytics consultants around the globe
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