BusinessConnect and SolutionsConnect

It's time to make bold moves.

SMARTER RISK

Building trust and value amidst uncertainty





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Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon many factors, including considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve results similar to those stated here.



The environment in which we do business today is more complex than ever, and riddled with uncertainty

Profitability pressures

Emergence of Big Data

Emboldened, socially active customers

Capital shortage

Significant skills gaps

Unprecedented cybercriminal access to technology

Increasing social, government & regulatory pressures

Changing business models



Why now?

More than \$30B lost

when a large financial institution failed to assess known risks on its derivatives in its models ¹ 42% of top 100 losses

since 2007 have been boundary events³

210 loss events over \$1B

as of Q1 2014, vs. **9 as of 2007**⁵

\$33,000 per minute

cost of average retail banking attack ²

40 million

credit and debit cards compromised in a recent retail cyber attack ⁴

 ¹ Protiviti Global Consulting, "Model Governance and Effective Risk Management," 2012
 ² Ponemon study of Retail Banking, 2012

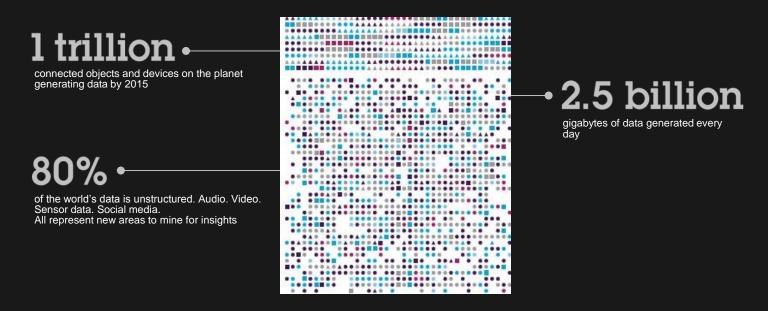
³ IBM Algo FIRST Database

⁴ IBM Algo FIRST Database

⁵ IBM Algo FIRST Database



Rich new and existing data sources present an opportunity, with the right technology



Drive business outcomes

apply more sophisticated analytics across more disparate risk data sources

e.g. external loss databases, sentiment analysis

Change the game

with predictive analytics, advanced visualizations across risk types

e.g. predictive KRIs, trend analysis

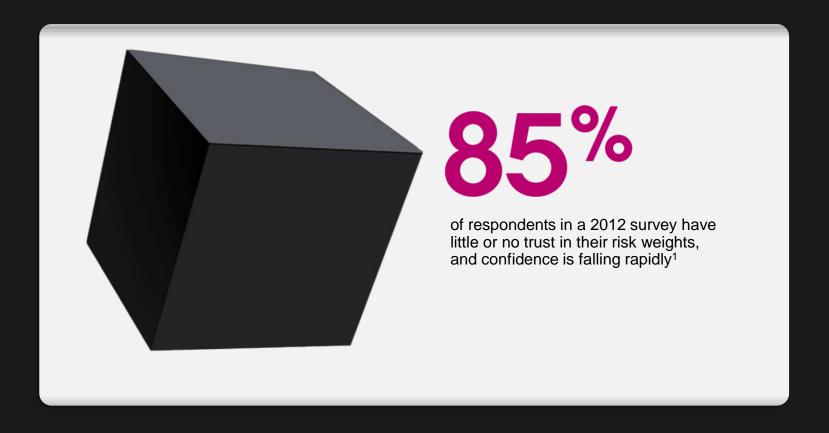
Capture the time value

by developing "speed of insight" and "speed of action" as core differentiators

e.g. real-time front office decision support OR trust analytics



Most organizations today lack complete trust in their risk management process, and cannot derive full value from them. It's a Black Box.



¹"Constraining discretion in bank regulation," Andrew Haldane, Bank of England, April 9 2013



What if you could break down the Black Box?



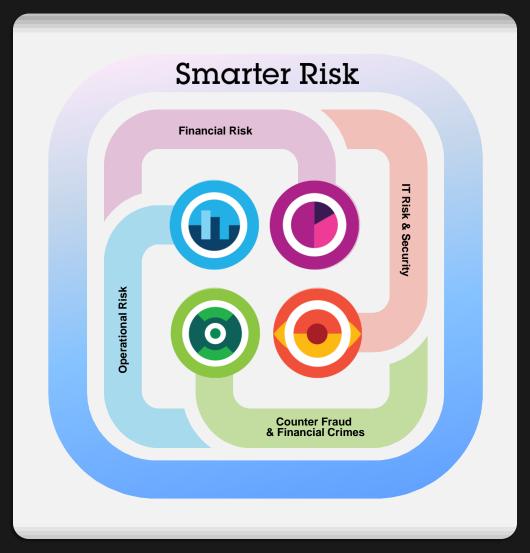


Managing risk in silos will not get you there



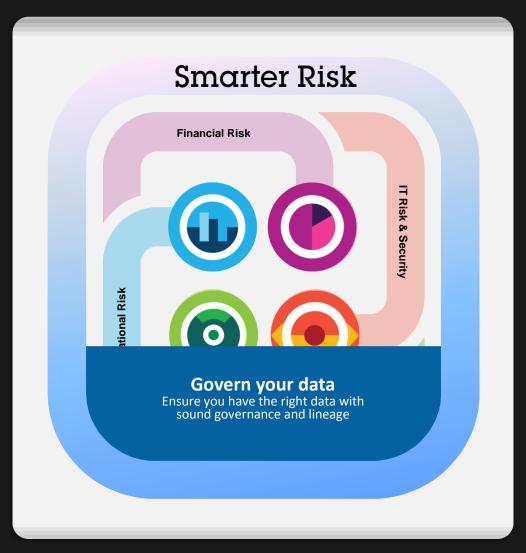


We must bring together an interconnected view of risk across the enterprise





A Smarter Risk approach: Govern your data





A Smarter Risk approach: Understand exposures across the organization



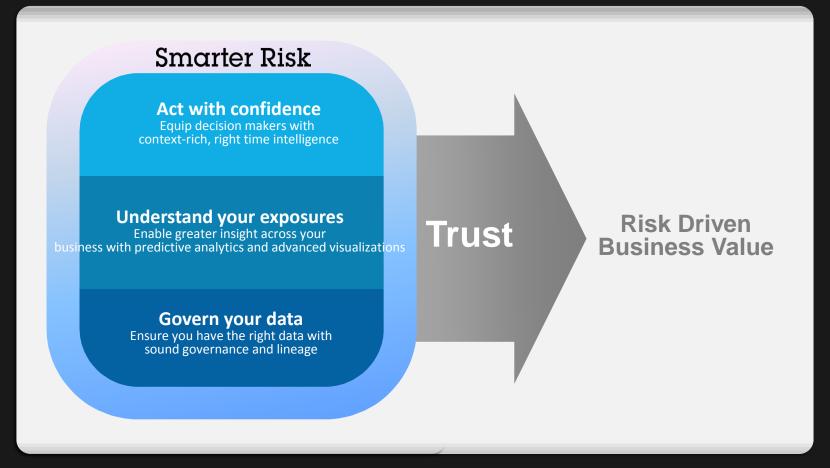


A Smarter Risk approach: Equip decision makers to act with confidence





A Smarter Risk approach: Build trust and value amidst uncertainty





IBM is innovating within each area...

Operational Risk

- Predictive analytics enhanced with advanced visualizations
 help you proactively manage enterprise-wide risk exposures
- Supporting a risk-enabled ecosystem with aggregated control and incident data from operational systems
- Ensure a holistic approach to enterprise risk governance with real-time policy and compliance monitoring

Financial Risk

- Trust analytics enhance decision makers' ability to act confidently on risk information
- Risk-aware business planning supported by aggregated risk dashboards that pull from across risk silos
 - Real-time risk intelligence and decision support equips
 the front office to price every transaction adjusted for risk



IT Risk & Security

- Predictive analytics that help prevent breaches and mitigate security and resiliency threats
- Cognitive learning technology and security services that enable continuous operations and increase customer confidence
- IT risk, threat & security analytics that fortify existing safeguards and compliance mandates in the era of Cloud and Mobile

Counter Fraud & Financial Crimes

- Advanced, multi-layered analytics provide more accurate detection and investigation
- Ability to derive heightened insights by investigating information from disparate sources to develop richer profiles and real time risk weightings
- Out-of-the-box integrated capabilities across the entire fraud management lifecycle reduces cost and risk



...and in bridging across risk domains





Our customers are seeing results

Operational Risk

99% time savings

Creating risk reports in just 3 hours vs. 30 days helps decisionmakers at DCV develop and action future business strategies based on real, up-to-date evidence about the potential risks

Depósito Central de Valores (DCV)



Financial Risk

15% benefit

in credit lines optimization with a powerful analytics solution that conducts millions of scenario simulations pre-deal, pricing trades more accurately, providing more flexibility and room for business with its customers

Italian bank Intesa Sanpaolo

IT Risk & Security



Counter Fraud & Financial Crimes

30 potential offenses found amongst 30,000,000 events per day

50% faster fraud detection improves fast tracking of legitimate claims to improve customer experience

\$1.4 billion in increased profits

Canadian Financial Services firm

Large Korean Insurance company



Our commitment to deliver Smarter Risk is unmatched

Technology	\$24 _{billion}	invested to date to build IBM's capabilities in Big Data and analytics, with \$7 billion in organic investment
Expertise	More than 1500	dedicated risk professionals
Vision	2/3	of IBM Research is focused on data, analytics and cognitive computing



Chartis' The Risk Enabled Enterprise™

A two-year research program launched in May 2013 and sponsored by IBM



Register to participate and receive updates at www.chartis-research.com/tree

- · Quarterly series of surveys
- Quarterly publications
- Webinars

Research topics include:

- Model risk management
- · Enterprise-level stress testing
- Conduct risk
- Risk-based performance management
- Risk Enabled Enterprise maturity model

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Engage with Smarter Risk on the web Critical thinking and expert insight on risk management



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Thank You





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