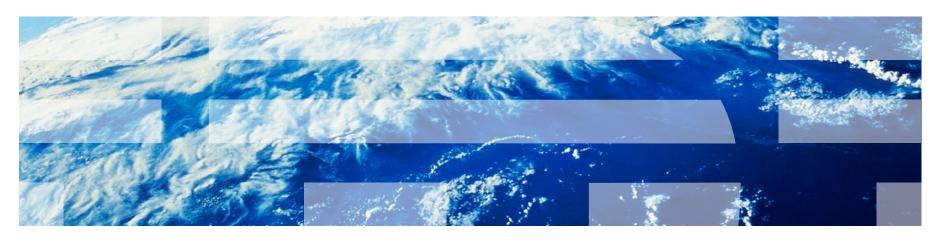




Turning Data into Actionable Insight- Financial Services Keynote

Laurence Trigwell Worldwide FSS Executive & European Industry Leader, Business Analytics, IBM





Financial Services Performance Challenges

Bank, consultants and analysts agree on a broad range of 'Multi-dimensional pressures on Performance'

- Demand for increased transparency driving
 Governance, Risk & Compliance agenda
- Continuing market & shareholder demand for increased capital efficiency
- Sustainable growth AND margin from increasingly savvy customers across all lines of business
- Efficient AND effective client servicing AND selling through Multi-channel, agency network etc
- Improving operational performance in the back and middle office, claims management etc.
- Increased ROI from Information Technology
 (est. 70% dedicated to maintenance, rather than innovation.)





Sustainable insight & continuously improving performance necessitates alignment of plans, goals across matrixed functions, business lines, resources and systems



Key Financial Services Performance Management Challenges

- Decision-makers rely on manual spreadsheet-based processes, or need to pull financial and operational data from multiple, disconnected sources.
- Information is often difficult to get into the right hands quickly enough to facilitate a customer interaction.
- Inaccurate, incomplete and redundant data.
- Struggle to achieve a full view of their customers, including all accounts, demographic information, and transaction history across all channels.
- Banks and Insurers have large, multiple data warehouses for risk and compliance and complex risk modeling methodologies, but are unable to consolidate and make sense of the information.
- Unable to operationalise risk performance across the enterprise, within departments and across channels.
- Planning and forecasting does not incorporate risk management information, leading to organizational misalignment between the finance and risk areas.
- Company plans and forecasts grossly misrepresent credit and operational risk, leading to major discrepancies between projected and actual financial results.

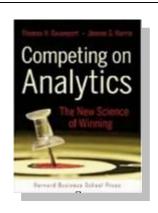




Analytics Critical for Driving Competitive Advantage

"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."

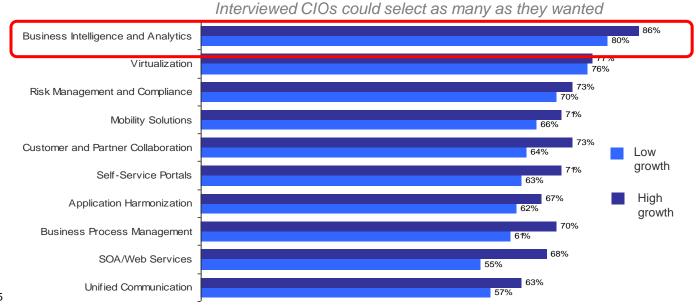
Tom Davenport, "Competing on Analytics"



Ten Most Important Visionary Plan Elements

Bl/Analytics #1 investment to improve competitiveness

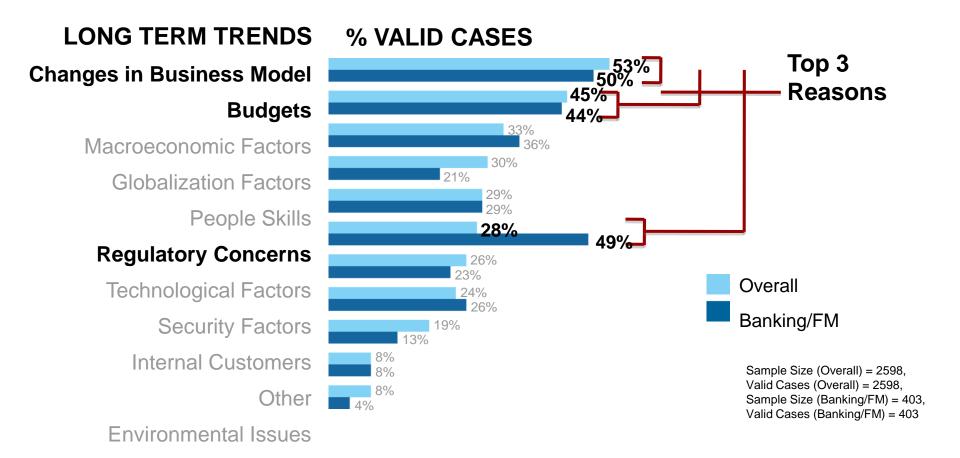
IBM Global CIO Study 2009



Source: IBM Global CIO Study 2009; n = 2345

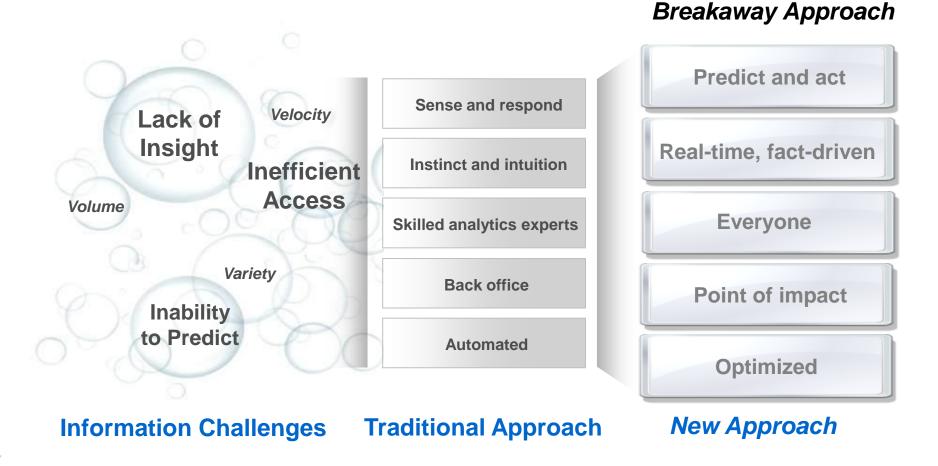


Financial Services CIO's Top 3 external factors affecting industry





The Key is Leveraging Information and Analytics Informed, Real-time Decisions at the Point of Impact...





Broad, Large, Informed and Complex Analytic Insight Community



Real-time or historical; operational or strategic

Guided or self-service access and exploration...

Foresight using Statistical, Content, 'What-if' and Predictive Business Modelling & Enterprise Planning throughout the business

What is happening?

Why are we on/off track?

What is likely to happen?

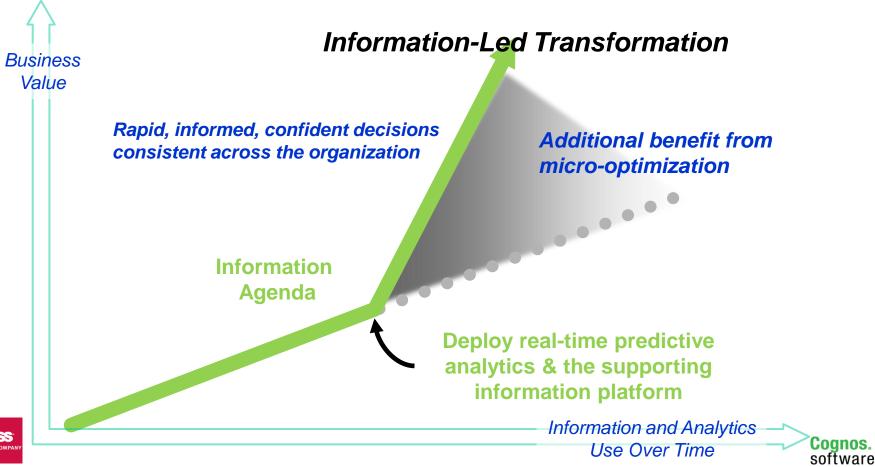
What should we do next?



Cognos. software



Organizations Will Reach a Tipping Point When They Apply Real-time Analytics at the Point of Impact





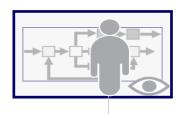
Example: Imagine If Your Bank Could ...

...offer new customer, menu-selected products, price and terms within Bank's optimal levels

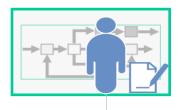
...use adaptive risk control at the customer and transaction level?

...cross sell optimal product, right customer, right time?

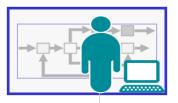
...stop a large wire transfer when predictive analytics shows likely fraud?



Product Manager



Loan Officer



On-line Channels
Manager



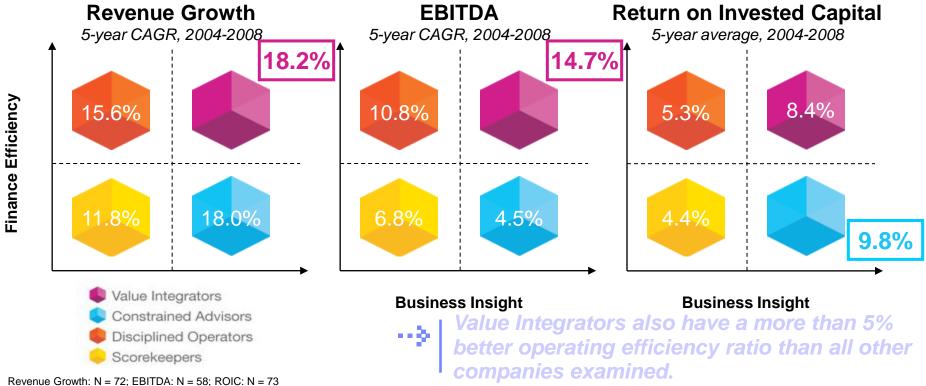
Branch Manager

Next generation of efficiencies will come from applying analytics to optimize decisions at every contact point....made possible by enabling pervasive, predictive real-time decisions at the point of impact



Value Integrators in Banking outperform, on average, other banks in Revenue Growth and EBITDA

Efficiency + Business Insight Contributes to Outperformance



Revenue Growth: N = 72; EBITDA: N = 58; ROIC: N = 73 Source: IBM Institute for Business Value, The Global CFO Study 2010

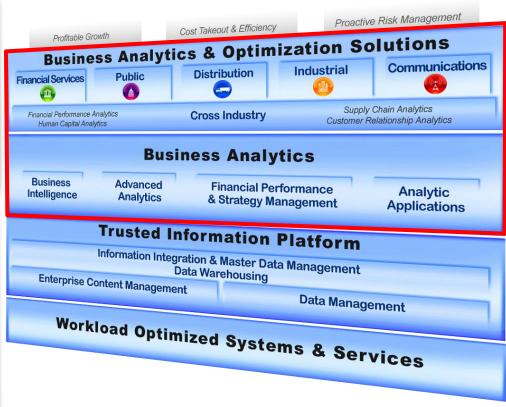


Business Analytics

Integrated SOA-Based Open Platform for BI, Planning, and Analytics

Capabilities

- Improve your analytical and decision support capabilities by replacing manual decisionmaking and eliminating spreadsheet proliferation.
- Seamless integrated capabilities to improve analytical support capabilities
- Deploy industry-specific and cross-industry solutions tailored to your needs.
- Make better, faster decisions by understanding, analyzing and sharing info
- Drive dynamic, reliable financial performance management practices
- Realize fast time to value with packaged applications and solution accelerators
- Dialogue with customers in real time, optimizing the outcome of each interaction
- ✓ Bridge the gap between lab-coat prediction and real time interactions
- Lower cost of ownership with unified SOAbased business analytics system



Cognos 8 BI, Cognos TM1, SPSS, Analytic Applications

Cognos. software



Business Analytics

Integrated SOA-Based Open Platform for BI, Planning, and Analytics

FSS Industry Accelerators

Integrated Risk Management Customer Care & Insight Operational Efficiency

SPSS

Predictive & Advanced Analytics

Cognos 8

Scorecarding, Dashboarding, Reporting, Analysis, Alerts ...

Cognos NOW!

Real-time operational BI

TM1

Scenario Modelling, What-if analysis

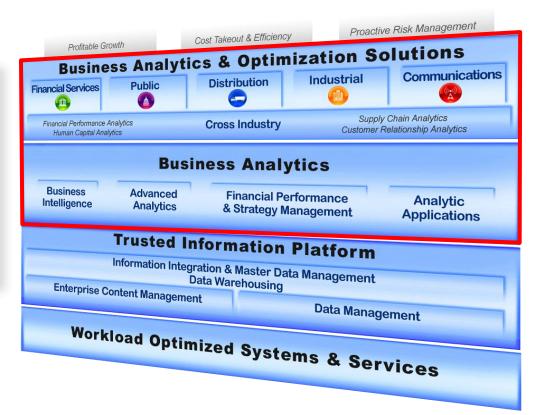
FPM

Business Modelling, Financial Planning, Forecasting

Analytic Applications

High business value application, out of the box

SPSS

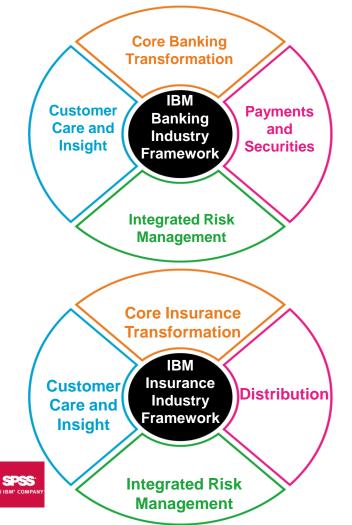


Cognos 8 BI, Cognos TM1, SPSS, Analytic Applications





IBM Financial Services Frameworks



- Support critical business challenges for the industry
- Proven business models and processes
- Customer validated and implemented solutions
- Captured best practices
- Implementation accelerators deliver faster time to value and increased ROI



IBM Business Analytics experience in Financial Services

4 of 5

World's largest banks use IBM Business Analytics¹ All Top 5

North American
Banks companies use
IBM Business
Analytics¹

All Top 10

European banks use IBM Business Analytics¹

1 – IBM Cognos customers on the Forbes Global 2000 list of largest banks

4 of Top 5

global P&C Insurers use IBM Business Analytics¹ 4 of Top 5

North American insurance companies use IBM Business Analytics²

5 of Top 7

Insurance companies use IBM Business Analytics²





Top 5 Global Bank - Retail and Commercial Bank Performance Insight

- Key Business Requirement
 - Global Country view of Retail Unsecured Lending, Liabilities, Mortgage sales and FTE v Headcount performance by Country and Branch
- Approach
 - Leveraged country performance feeds and delivered plasma screen display to senior exec office and floor displays

Top 5 Global Bank

Geography – UK (Global View)

Solution – Cognos BI & Google Maps

Challenges

- Minimal user interaction
- Available 24 hours
- Live daily updates from Countries Globally
- Deliver performance metrics at Country and Branch level

Solution

- Dashboard application called the "Live Monitor" using graphical reporting and automated screen scrolling
- Integration with Google maps API to drive overview on performance and local management contact details
- Integration of updatable news tickers contribute to maximise delivery of key management information.

Results

- High visibility on performance leading to increased in country focus
- Head office insight to the branch level across the globe

software



Top 5 Global Bank - "From Volume to profitable customer relationships"

- Key Business Requirement
 - Drive Customer Profitability agenda at the Branch level as well as Balance scorecard of additional measures (sales operations, customer satisfaction, local cost management)
- Approach
 - Reporting and analysis, of customer relationship value at Branch level and Reporting to drive local contact strategy

Solution

Deployed Cognos BI to 20,000 users:

- Monthly profitability reporting
- Daily branch and staff performance reporting
- Executive reporting providing performance insight throughout the hierarchy

Top 5 Global Bank

Geography – UK 20,000 users

Solution - Cognos BI

Results

- Improved profitability
- Improved customer retention
- Consistency and alignment to strategic drivers
- Improved customer satisfaction levels

Challenges Limited insight into E

- Limited insight into Branch or customer relationship management
- Support cultural change from volume to Retail relationship.

Updated: fall 2009



Global Sell Side - 'Near Real Time Risk Adjusted Trading P&L Analysis

- Key Business Requirement
 - Increase visibility to daily trading results for better, more timely decision making and reporting to Business Unit Controllers, management and regulatory authorities
- Technical Requirement
 - Analyse high-level daily metrics and provide financial reporting for regulators, but drill quickly to investigate real-time positions on trade desks if needed.

Top 10 Sell Side

Division – Fin Mkts

Geography – UK, USA & Global

Solution – TM1, C8 BI

Challenges

- Could not track deals or the exposures when the sub prime crisis hit
- Lack of data integration meant information was not timely
- Tracking calculations of values at risk, based upon each trade was difficult

Solution

- IBM Software: TM1 & Cognos 8
 BI
- IBM Consulting: SWG Cognos Services and IBM Partners

Results

- Hundreds of users worldwide
- Scale and Performance are Key!!!
- Provides the ability to operate more efficiently, with better information, to minimize and better mange risk.



Updated: January 2010 © 2010 IBM Corporation 18



Infinity Insurance Improving cycle times and customer service

Integrated Risk Management

The Need:

Infinity Property & Casualty Corporation (IPACC) specializes in drivers who have higher incidences of accidents and claims. They needed to reduce payments on fraudulent claims and improve its ability to collect subrogation payments from other insurance companies. To do this IPACC wanted to automate workflows and data gathering related to fraudulent and subrogated claims to enable more rapid identification and investigation of suspicious claims.

The Solution:

IPACC chose IBM Business Analytics to help build its accelerated payment collection capabilities. Now when an IPACC policy holder submits a claim in which another driver is partially or fully responsible, IPACC can more rapidly collect payment from that driver's insurer. Additionally, the SPSS software enables investigators to begin investigations earlier which leads to more successful investigations and reduced costs related to fraudulent claims activity.

What Makes it Smarter:

- Reduced claims payments and accelerated collection of subrogation payments.
- Prioritizes collection so insured drivers are pursued first
- Faster, automated access to accident information to speed investigations, leading to fewer fraudulent claims and lower costs.

"Take better control of our data, reduce cycle times and reduce costs and focus claims efforts where they need to be focused... so we can better complete in the marketplace."

Parks Mann Assistant VP, Strategic Projects Infinity Insurance Company

Solution components:

IBM SPSS





Banking Imperatives & Business Analytics Solutions

Channel

Management

Customer Care & Insight

Relationship Pricing

Customer Profitability

Branch Performance

Client Servicing

Campaign Insight & Optimisation

Customer Analytics (2010)

Customer Experience Financial Risk & Service Management Customer Revenue Growth Finance & Operational Administration Risk Mitigation Risk & Sales Compliance Acquisition Marketing Product Development Lending New Products Regulatory & Services & Legal Trading Compliance Channels Services

HR & Corp

Services

Paperless

Enterprise

Operational

and M&A

Synergies

IT&

Operation

Optimization of Information-

Processes

Driven Business

Operating Efficiency

Int Risk Management

Finance & Int Risk Man

BRP – Credit Risk App

Risk Scenario Analytics

Risk Adjusted Profitability

Relationship Based Pricing

Operational Efficiency

Cost Transparency

Ent Payments Monitoring

Financial Perf Man.

Workforce Performance

Start Anywhere, Value at Every Step!



Business Analytics Accelerators for Banks & FM organisations

Integrated Risk Management

Finance & Integrated Risk Management

BRP – Credit Risk Application

Risk Scenario Analytics

Relationship Based Pricing

Customer Care & Insight

Relationship Pricing

Customer Profitability

Branch Performance

Client Servicing

Campaign Insight & Optimisation

Customer Analytics

Operational Efficiency

Cost Transparency

Payments Monitoring

Financial Performance Management

Workforce Performance





Integrated Risk Management

- IBM Business Analytics can help you:
- Integrate finance and risk data
- Communicate risk insight to decision makers throughout the organization
- Deliver timely, accurate information to optimize risk processes and management.
- Use information to accurately identify and mitigate fraud and operational risk.
- Help you address regulatory requirements like scenario analysis, liquidity risk,
 Basel II





IBM BA Solutions/ Accelerators for Integrated Risk Management (Banking)

Finance and Integrated Risk Management (FIRM)

 Enterprise risk management covering credit, operational, market, liquidity risk & scenario analysis

Banking Risk – Credit Risk Application

 Credit risk management reporting application covering credit risk from origination to collections.

Risk Scenario Analytics

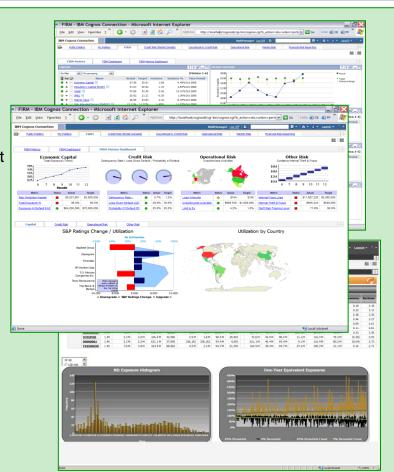
 'What if' scenario risk analytics for trade book market risk, credit risk and capital. Built with R² Financial (IBM partner)

Liquidity Risk

 Liquidity data model and stress testing supporting in-house analysis, presentation and disclosure.

Risk Adjusted Profitability

 Integrated risk management and financial planning capabilities to maximize RAROC (Risk Adjusted Return on Capital) for risk-based profitability management.

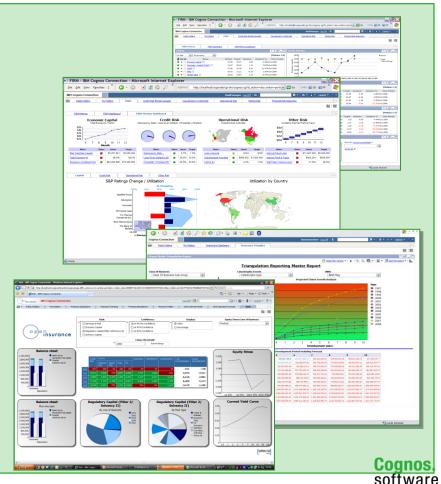






IBM BA Solutions/ Accelerators for Integrated Risk Management (Insurance)

- Finance and Integrated Risk Management (FIRM)
 - Enterprise risk management solution covering credit, operational, market, liquidity risk & scenario analysis
- Investment Analytics & Reporting
- Actuarial Loss Development & Risk Scenario Analytics
 - Optimize actuarial analyses
 - Integrate with GIS/Location Intelligence
- Fraud detection
 - Use predictive models to identify potentially fraudulent claims
- Solvency II and Insurance Risk Management
 - Meet regulatory requirements and improve risk insight and communication



SENIOR SUPERVISORS GROUP

The Regulator Perspective!



"Risk Management Lessons from the Global Banking Crisis of 2008"

"Ten Areas for Continued Improvement" October 09

Board Direction & Oversight

 Firms are generally undertaking adjustments...however not yet clear whether these changes have contributed to stronger governance

2. Articulating Risk Appetite

- Supervisors see insufficient evidence of board involvement in setting and monitoring adherence to firm's risk appetite
- Risk appetite statements are generally not sufficiently robust...actionable measures...

3. Compensation Practices

 — ...past compensation practices ...to attract & retain staff, not integrated with financial control. Firms need to better align compensation & risk appetite

4. Information Technology Infrastructure

 Firms are constrained ...to effectively aggregate & monitor exposures across counterparties, businesses, risk strands & other dimensions because of ineffective information technology & supporting infrastructure

5. Risk Aggregation & Concentration Identification

 Identification of risk concentrations is an area of weakness...automating ..concentrations by counterparty, product, geography and other classes

6. Stress Testing

- Enhancements & increased use... significant gaps to conduct firm wide stress tests

7. Counterparty Risk Management

Flexibility in CCR management systems key determinant of responsiveness to sharp changes in exposures

8. Valuation Practices & Loss Recognition

Loss of stakeholder confidence directly contributed to funding withdrawal and liquidity drains

9. Operations & Market Infrastructure

Significant strides to improve position and collateral management, more still to do

10. Liquidity Risk Management











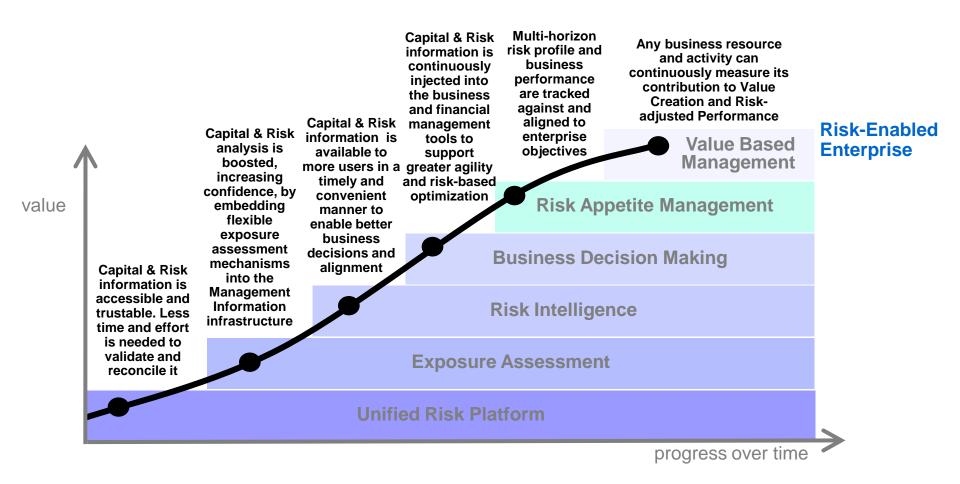






Risk-Enabled Enterprise:

The Risk-Enabled Enterprise maximises value creation by treating every single risk that is attached to its business as a costly resource governed by a Risk Appetite Management policy.



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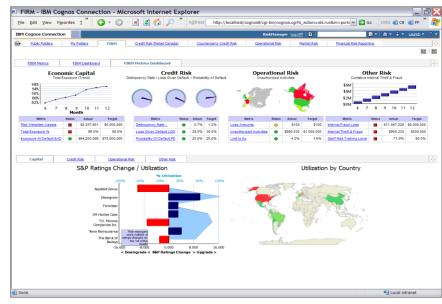


Finance and Integrated Risk Management (FIRM)

- What is it?
 - Sample BI content and metadata leveraging multiple back end sources including banking data warehouse models, best practice analytic reports and dashboards.
- What does it do?

Provide banks an enterprise view of risk across risk classes, geographies, lines of businesses, etc including:

- · Credit Risk (Retail)
- Credit Risk (Wholesale / Counterparty)
- Operational Risk
- Market Risk
- Financial Reporting
- What does it include?
 - Sample dashboards and hundreds of detailed Risk/Finance metrics
 - Supporting sample datamarts based on numerous sources including the BDW
 - Multiple BI metadata models
- Why?
 - To provide a set of templates that can act as accelerators for requirements and implementation







Liquidity Risk Governance and Regulatory Response

- Regulators mandating liquidity risk response
- In development with customers & regulators
- Including:
 - Liquidity reg data model supporting in-house analysis, presentation and disclosure
 - Liquidity risk stress test and scenario modelling
 - Liquidity dashboard, scorecards, alerting, reporting and analysis

Delivers:

- Single view for the aggregate portfolio
- Shared appropriately between functional constituencies (Risk, Treasury, Capital, Snr Man, Compliance)
- 'Insight' and 'Control' in multiple forms:
 - Presentation: Reporting, Dashboards, Scorecards, Office tools, Mobile
 - · Analysis: ad hoc, what-if, scenario, predictive
 - · Intraday: event management, real-time
 - Governance: KRI framework for leading indicators
 - External disclosure: regulatory submission





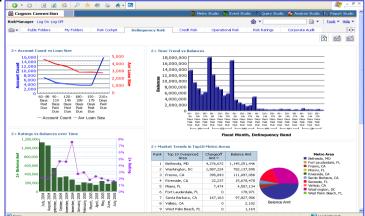
Risk-Adjusted Profitability for Commercial Banking

 Integrated risk-adjusted planning and forecasting within a commercial segment (ie, industry) at the product type and region level

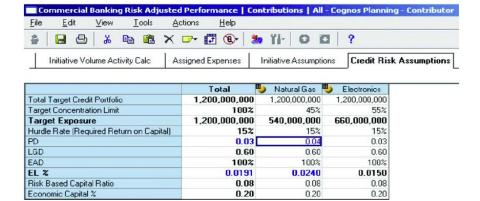
 For instance, RMs, LOB execs forecast sales & net income for a specific industry segment, within a region, either across products or for a single product type

 Changes in risk factors e.g. PD & EL drive adjustments to loan loss provisions, and ultimately to net income

- Final result is profit and loss statement
- Multi-dimensional risk management and profitability reporting and analysis leveraging the FIRM
- Initiative planning allows comparison of multiple scenarios
- Incorporation of activity-based management /costing









Banking Imperatives & Business Analytics Solutions

Customer Care & Insight

Relationship Pricing

Customer Profitability

Branch Performance

Client Servicing

Campaign Insight & Optimisation

Customer Analytics (2010)

Customer Experience Financial Risk & Service Management Customer Revenue Growth Finance & Operational Administration Risk Mitigation Risk & Sales Compliance Acquisition Marketing Product Development Lending New Products Regulatory & Services & Legal Trading Compliance Channels Services IT& HR & Corp Operation Services Operational Channel and M&A Management

Operating Efficiency

Optimization of Information-

Processes

Driven Business

Synergies

Paperless

Enterprise

Int Risk Management

Finance & Int Risk Man

BRP – Credit Risk App

Risk Scenario Analytics

Risk Adjusted Profitability

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Cost Transparency

Ent Payments Monitoring

Financial Perf Man.

Workforce Performance

Start Anywhere, Value at Every Step!



Information Agenda – Business Outcome Based Approach

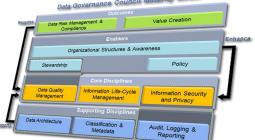


Industry Software POC

Hardened Accelerators

Information Governance Workshop

Data Maturity Model, Best practices



IA Roadmap Workshop

Dynamic BOM, IA Business Maturity Assessment and KPIs



Supports											
	Business Initiative	KPI	Maturity 1	Maturity 2	Maturity 3	Maturity 4	Maturity 5				
	Chum & Retention Management	Monthly % chum Annual % chum	No churn measurement in place	Heasurements reported but no link to action			Predictive churn analysis linked to marketing				

IA Solution Workshop

Business Use Cases, Reference

Architectures, ROI models

0	onsumption	Web	Exchanguirous Digitals		Aliquie Dennets A Disconnected			
	Industry	Models, Ana	lytical Appli	cations, Blue	prints			
ides	BI & Performance	Deshiboards & Viscalization	1	Mining	Operational soutragence	pomon	ha.	andComplante
information Services	Master Data, Warehousing & Content	intorrustion integrity	and the second	information. Integration	Event Management Balance & Controls	3	napor, Delivery	Privacy and Co
	Enterprise Infor Foundation	mation Data M	anagement	Metadat Managien	ert .	Orchestration	E	Security, P
Data	ains		Operational	Metadata				

Provides a fast track approach to accelerate Business
Analytics and Information enabled transformation

Information Agenda (IA) is SWG's Information Led Transformation consultative selling approach for engaging clients at the senior business and IT levels to help first clarify their own information strategy and resulting business value then define the right approach to execute. The IA approach has been strongly validated in 2009 helping our clients accelerate there information execution while elevating IBM into a trust advisor and increasing the rev size/breadth.

ATAT



Business Analytics and Optimization: Competencies and Offerings

BAO Strategy



- BAO Strategy and Roadmap
- BAO Process Improvement
- BAO
 Governance

Business Intelligence & Performance Management



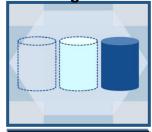
- Dashboards & Scorecards
- Planning, Budgeting, & Forecasting
- BusinessAnalytics &Reporting

Advanced Analytics and Optimization



- Advanced Analytics
- Analytic Applications
- Predictive Modeling
- BusinessOptimization
- Visualization

Enterprise Information Management



- Data Integration
- Data Quality
- DataArchitecture
- Master Data Management

Enterprise Content Management



- Document & Records Management
- Web 2.0 / Web Content Management
- Digital Asset & RightsManagement
- Archiving & Record Management



Any Questions?

