



### **Overview**

New complexity creates an imperative for change

Enterprises must fundamentally change the way they work

Only IBM brings the comprehensive solutions enterprises need

Let's get started with your BAO program and initiatives









The growing velocity of the volume, variety and granularity of information is driving unprecedented complexity.

Intelligent enterprises
leverage information to
reach better, faster
decisions, optimal actions,
and more predictable
outcomes.

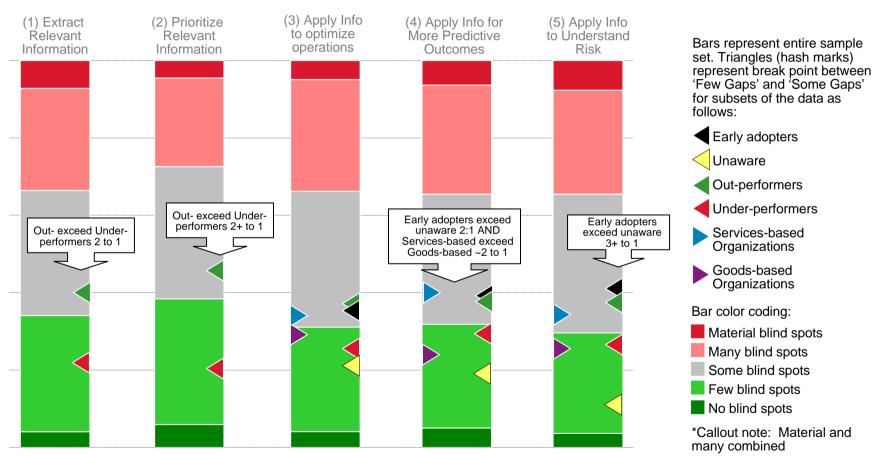
IBM is creating a new GBS service line - Business
Analytics and
Optimization - to bring together world class capabilities for our clients.

Let's work together to determine priorities, assess your situation, identify new opportunities, and begin delivering value.



# There is lots of room for improvement across the board with some big differences in the details

To what extent do you feel that your organization is operating with major "blind spots" — gaps or lack of trust in information — in regard to the following areas?

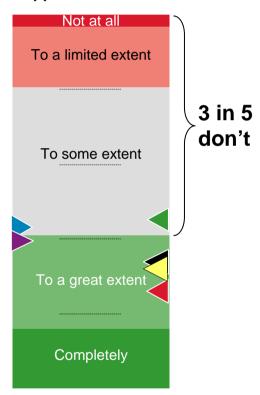


Source: EIU launch survey for IBM BAO, March 2009, n=225, Question 3: Early adopters have programs well underway to take advantage of new analytics for business advantage and Unaware declare having "not thought about the opportunity"; Out- and under-performance is relative to peers; Services-based industries: financial, professional services, entertainment, media, publishing, telecommunication, education, government, transportation. Goods-based industries: technology, manufacturing, energy, pharmaceuticals, automotive, consumer goods, retail, agriculture, real estate, chemicals and aerospace/defense.

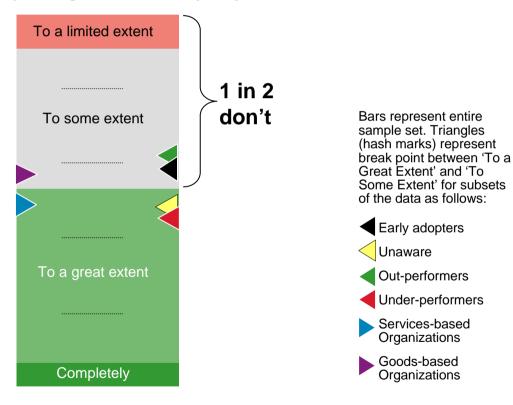


# One in two organizations neither connect the dots internally nor share much with external partners and suppliers

## Share critical information with partners and suppliers for mutual benefit?



## Have sufficient information from across your organization to do your job? <sup>2</sup>



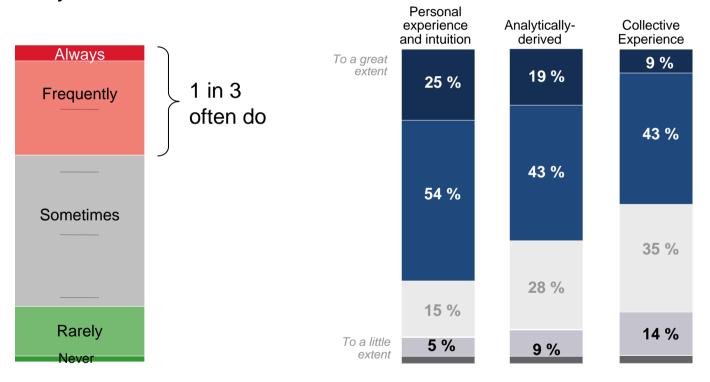
Source: EIU launch survey for IBM BAO, March 2009, n=225. ¹Question 1 : ²Question 5: Early adopters have programs well underway to take advantage of new analytics for business advantage and Unaware declare having "not thought about the opportunity"; Out- and under-performance is relative to peers; Services-based industries: financial, professional services, entertainment, media, publishing, telecommunication, education, government, transportation. Goods-based industries: technology, manufacturing, energy, pharmaceuticals, automotive, consumer goods, retail, agriculture, real estate, chemicals and aerospace/defense.



# Lack of information forces decision makers to be most reliant on their intuition

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

To what extent do you make business decisions based on the following factors? <sup>2</sup>

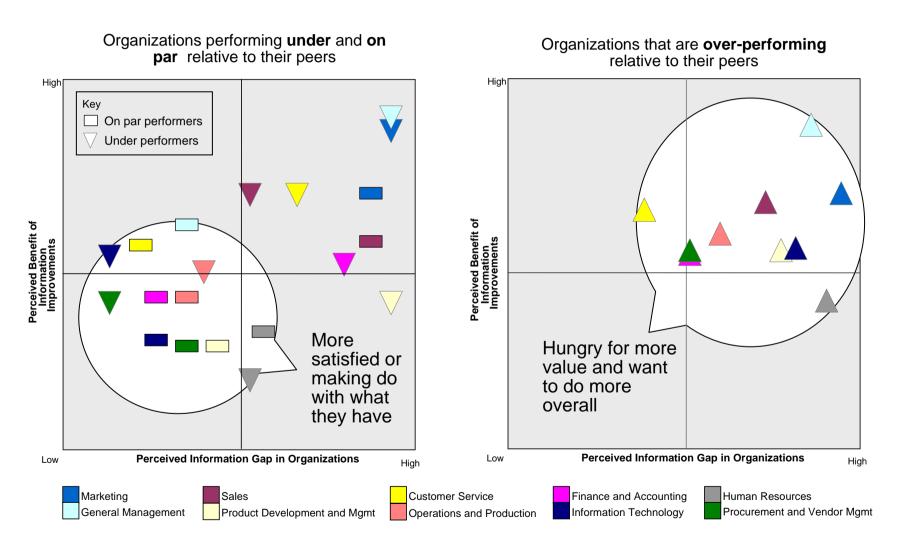


"Guestimation" has worked up to a point (arguably we've passed it), but is prone to serious failure in new circumstances, greater complexity and higher speed

Source: EIU launch survey for IBM BAO, March 2009, n=225: 1Question 2; 2Question 6



# Enterprise-wide, over-performers recognize the value of information improvements and want more

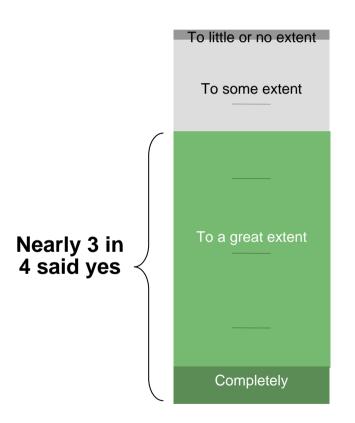


Source: EIU launch survey for IBM BAO, March 2009, n=225: Analysis based upon questions 4 and 8. Out-, on-par and under-performance is relative to peers.

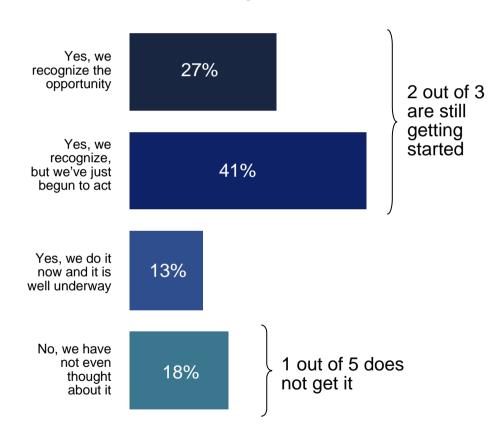


# Most organizations recognize the opportunity for analytics, but are still very early in the adoption process

## Would more predictive information drive better decisions?



## Is your organization taking advantage of new opportunities to leverage information for its advantage?

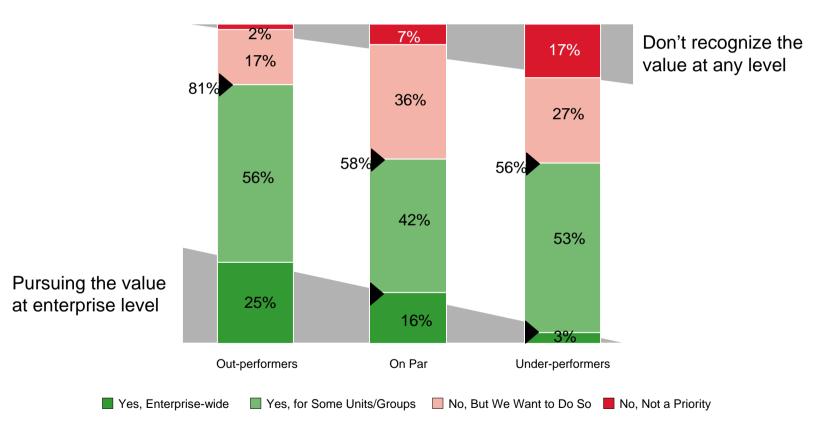


Source: EIU launch survey for IBM BAO, March 2009, n=225: 1Question 7; 2Question 9



# Out-performers recognize and pursue the value much more than On-par and Under-performers

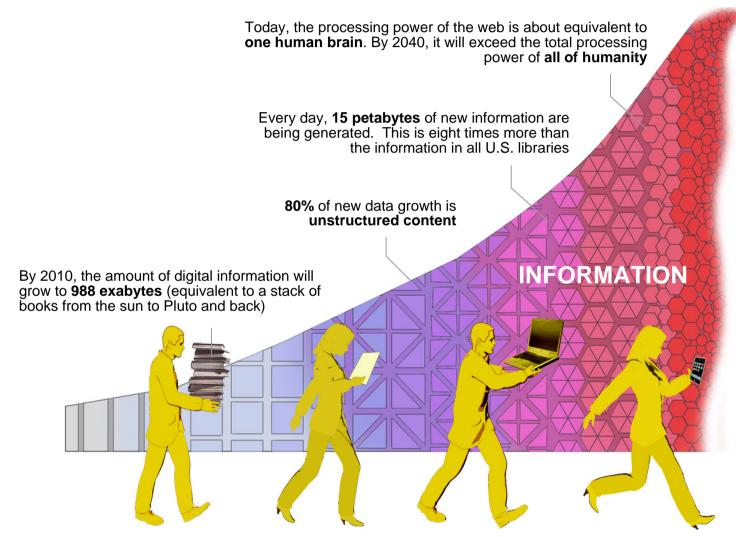
Does your organization have a plan in place to improve all of the following: its ability to collect and analyze data, present relevant information, and empower people to act on it?



Source: EIU launch survey for IBM BAO, March 2009, n=225: Question 10. Out-, on-par and under-performance is relative to peers.



# The growing velocity of the volume, variety, and granularity of information is driving new, unprecedented complexity



Tomorrow's issues and opportunities will be bigger and harder to solve in ways that defy our imaginations today

Timelines for action will be compressed beyond current ability to respond

We are approaching a "do or die" moment: enterprises that act will survive to prosper, and those that don't will be washed away

\* Source: TED 2007: Predicting the Next 5000 Days of the Web. IBM analysis



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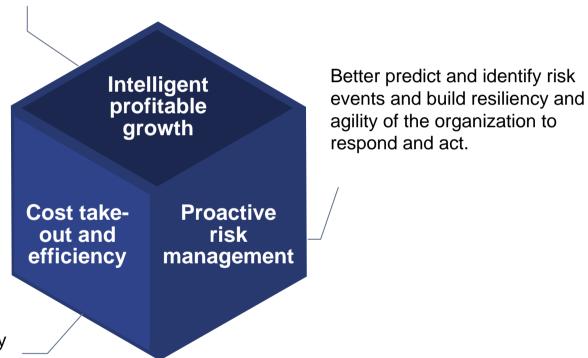
# Organizations will need to adopt new ways of working to improve speed to insight and speed to impact

**Traditional Approach New Approach** Instinct and intuition Fact-driven Corrective Directive Years, months, weeks Hours, minutes, seconds Human insight Applied semantics **Decision support** Action support Efficient **Optimized** 



### The value is immediate and strategic for the smarter organization

Improve opportunities for growing customers, improving relationships, identifying new markets, and developing new products and services

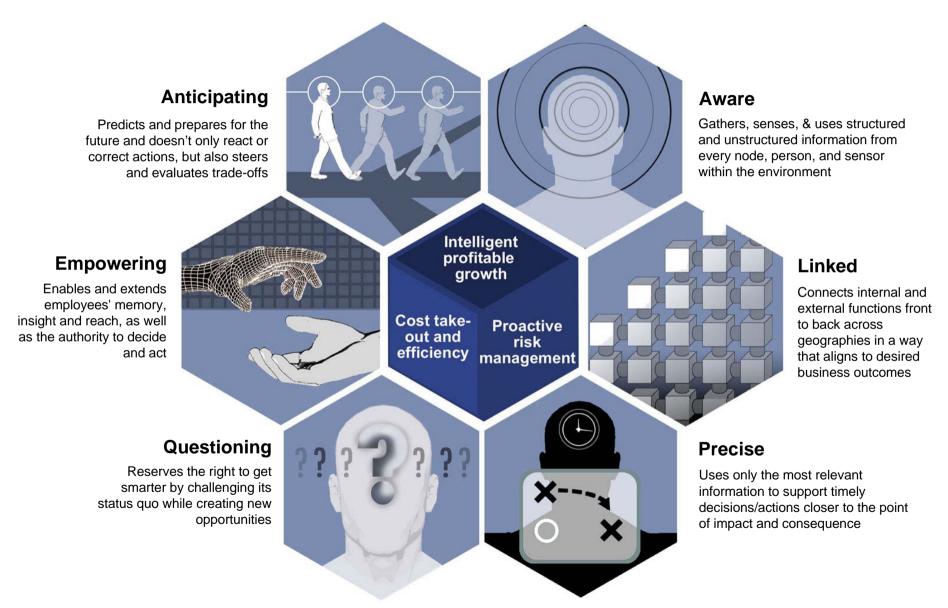


Optimize the allocation and deployment of resources and capital to create more efficiency and manage costs smartly

Different organizations may identify different priorities for business analytics



### The intelligent enterprise is...





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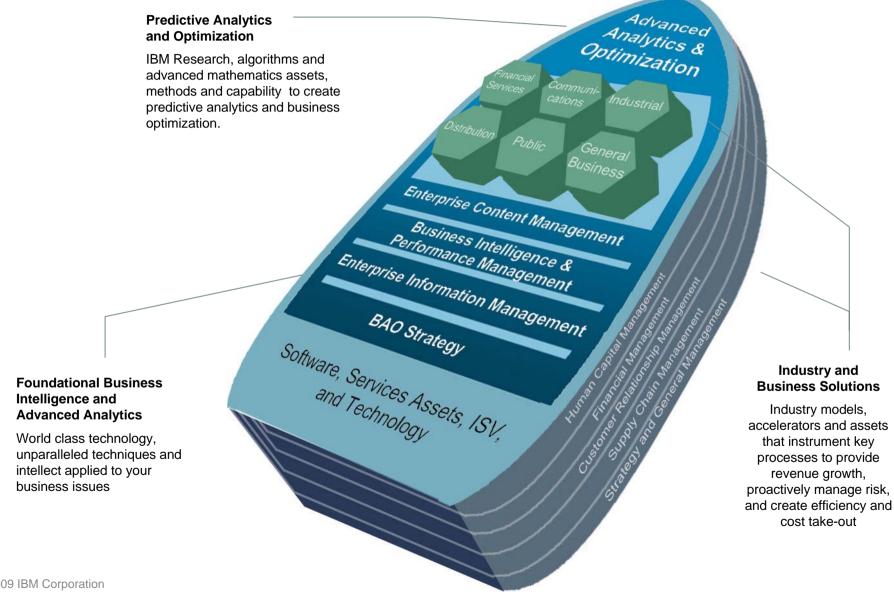
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### GBS Business Analytics and Optimization capabilities will provide speed to insight and speed to Impact





### **Business Analytics & Optimization: Competencies and Offerings (alternate)**

### **BAO Strategy**



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

# Business Intelligence & Performance Management



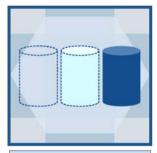
- Dashboards & Scorecards
- Planning, Budgeting, & Forecasting
- Business
   Analytics &
   Reporting

## Advanced Analytics and Optimization



- Advanced Analytics
- Analytic Applications
- Predictive Modeling
- Business Optimization
- Visualization

# Enterprise Information Management



- Data Integration
- Data Quality
- Data
   Architecture
- Master Data Management

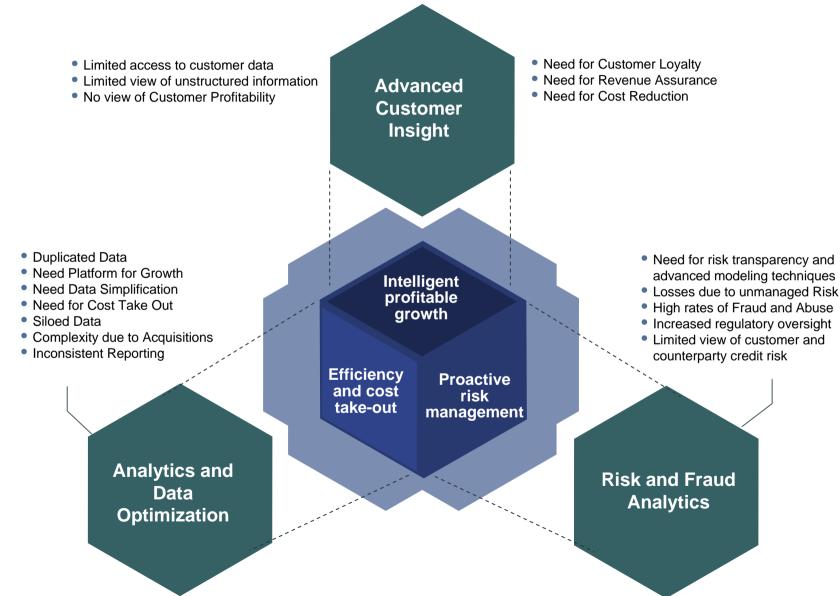
### Enterprise Content Management



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



BAO will address critical client needs through big plays in key areas





### Extending our existing portfolio of industry-based solutions and building additional big plays are our highest priorities

Cross Industry	Financial Services	Public	Distribution	Industrial	Communications
Financial Performance Management	<ul> <li>Customer Care &amp; Insight</li> <li>Customer Data Management Solution</li> <li>Data Integration</li> </ul>	<ul> <li>Healthcare Analytics</li> <li>Member 360</li> <li>Crime Information Warehouse</li> <li>CFO Dashboard</li> </ul>	<ul> <li>Retail Performance Analytics</li> <li>Life Sciences State Spend</li> <li>CP Demand Driven</li> </ul>	<ul> <li>Common Quality Framework / Warranty Analytics</li> <li>Petroleum BPM</li> <li>Production Design</li> </ul>	Loyalty     Identification     Focused Targeting     (LIFT/CELM)     Telco Customer
Human Capital Management	Solution • Fraud & Abuse Management Solution	<ul><li> Tax Audit &amp; Compliance</li><li> Customs Border Risk</li></ul>	Replenishment • CP Trade Promotion Optimization	and Operations Scheduling Dynamic Inventory	Intelligence • M&E Advertising Analytics
Supply Chain Management	<ul> <li>Credit Risk         <ul> <li>Performance</li> <li>Risk Insight</li> <li>Identity Risk &amp;</li> </ul> </li> </ul>	Management • Fraud & Abuse Management • START	<ul> <li>CRM Analytics for Airlines</li> <li>Loyalty Identification Focused Targeting</li> </ul>	Optimization (DIOS)  Sense & Respond  Integrated Operations Solution	<ul> <li>Consumer Analytics</li> <li>Enterprise Metadata Management</li> <li>Enterprise Media</li> </ul>
Customer Relationship Management	Investigation Insurance Executive Dashboard	(ARRA/Stimulus) • Insight for Schools / Education Perf. Mgmt.	<ul><li>Virtual Command Center</li><li>Supply Chain</li><li>Optimization Workbench</li></ul>		Library

### **Business Analytics and Optimization Platform**

### **Performance Management & Analysis**

- Dashboards, Scorecards,
- OLAP, Ad-hoc Query & Analysis
- Production Reporting

### **Advanced Analytics**

- Time-series, Cluster & Pattern-based Mining
- Natural Language Text Analytics,
- Entity Analytics, Social Analytics, Streaming Analytics... Visual Decisioning
- Mathematical Optimization
- Collaborative Decisioning

#### **Trusted Information Platform**

**Information Integration and Master Data Management** 

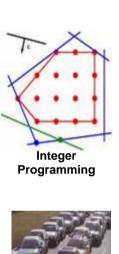
**Enterprise Content Management** 

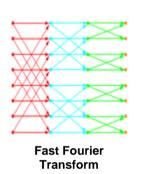
**Data Warehouse and Other Data Management** 

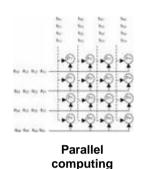


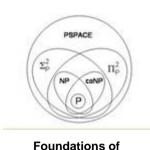
### BAO extends BI and IOD capabilities with a focus on applied research in a diversity of new and emerging areas...

IBM Research: Over 40 years of significant contributions to the field of mathematical sciences

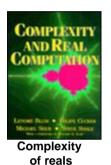








Complexity



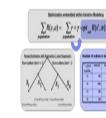


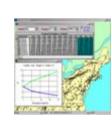
Cryptography













**Adversarial** Queueing



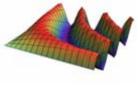
**Priority Encoding** 

**Fractals** 

**Data Mining** 

**U.S. National Drought Atlas** 

Workforce



**MINLP** OSL



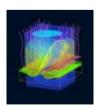
**Supply Chain** Optimization



Supply Chain Carbon Management



Mfq Yield Improvement



Geological Processes Modeling



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### **Getting started**

IBM offers simple ways to continue the conversation and discover how business analytics and optimization works for your organization.

## Prioritization and readiness planning



Assess current business analytic environment and determine priorities for future enterprise information vision

"We're not sure what our top priorities are or what we should be doing next"

## In flight portfolio analysis and planning



Examine existing business analytic programs or capabilities and determine improvements and larger BAO enterprise vision.

"We have programs in place and need to know how they will work in the big picture"

## **Opportunity exploration**



Identify possible innovations and opportunities within existing or desired information assets

"We have an untapped data asset that could be turned into something valuable"

## BAO concentrated workstream



Get started on immediate BAO projects and solutions for known, identified analytic priorities

"We know the solution we need and we need to get it done right"



### **Contact**

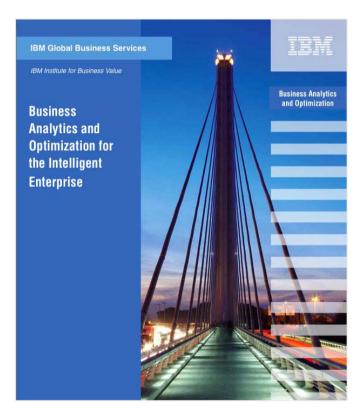


**Gregor Scherer** Senior Managing Consultant Leader BAO Services Alps

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Refer the IBM Webpage:

http://www-935.ibm.com/services/ch/bcs/bao/



## **IBM report surveyed of 225** business leaders worldwide

Business Analytics and Optimization for the Intelligent Enterprise, April 2009. http://www-935.ibm.com/services/us/gbs/bus/pdf/gbe03211-usen-00.pdf