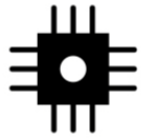




IBM Business Analytics

Smarter Decisions. Better Results.

Rajesh Shewani
Technical Sales Leader – India/SA
IBM Business Analytics
rshewani@in.ibm.com



Our world is becoming

INSTRUMENTED



Our world is becoming

INTERCONNECTED



Virtually all things, processes
and ways of working are becoming

INTELLIGENT

... to help build a Smarter Planet

Data Explosion In A Smarter World!

Volume of Digital Data

- 57% CAGR for enterprise data through 2010
- Machine generated data : Sensors, RFID, GPS..

Variety of Information

- 80% of new data growth is unstructured content
- Emails, images, audio, video..

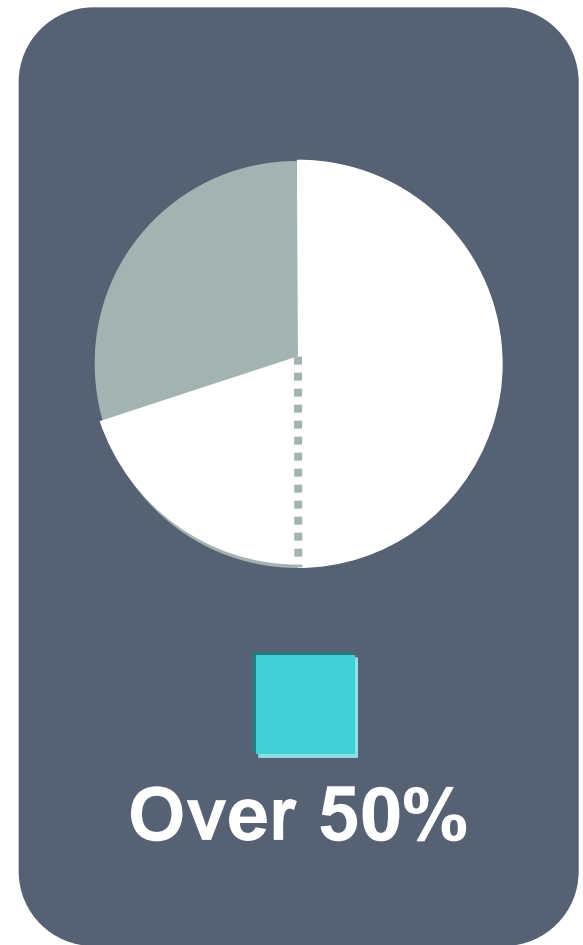
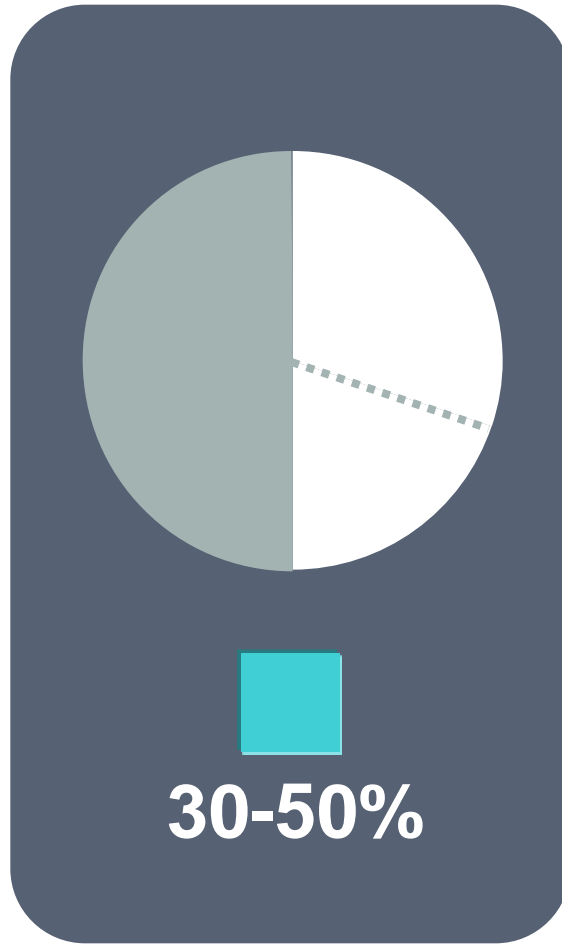
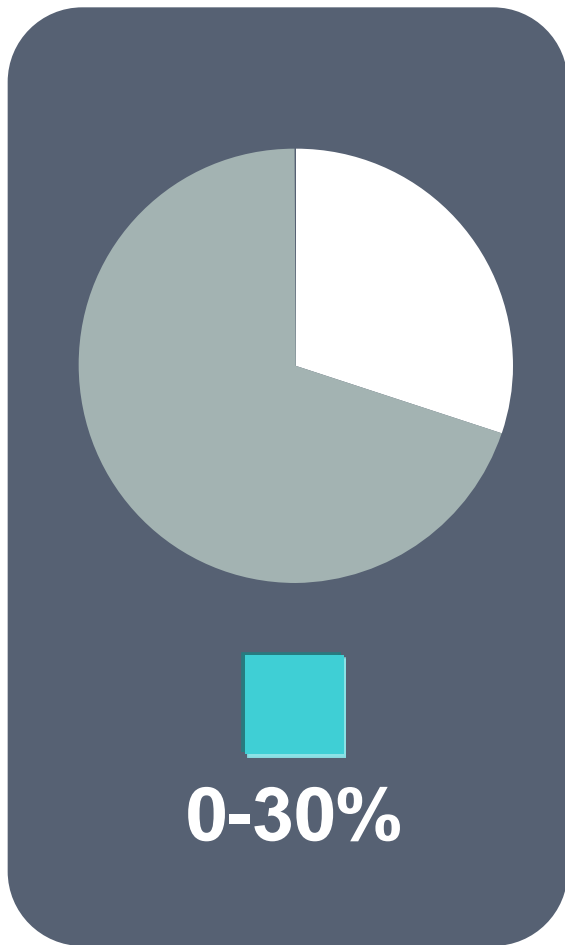
Velocity of Decision Making

- Rapidly changing business climate
- Need to get ahead of the curve : predict issues and fix them

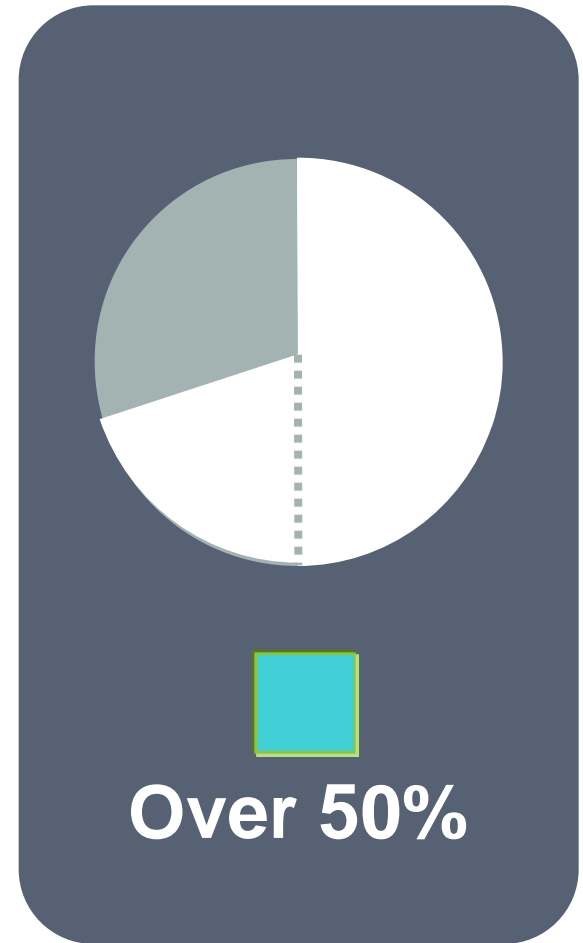
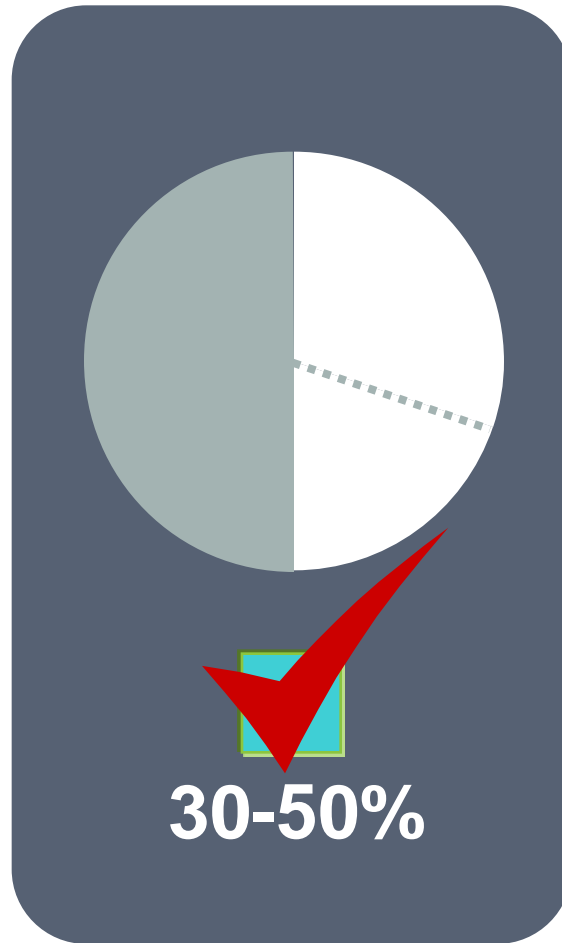
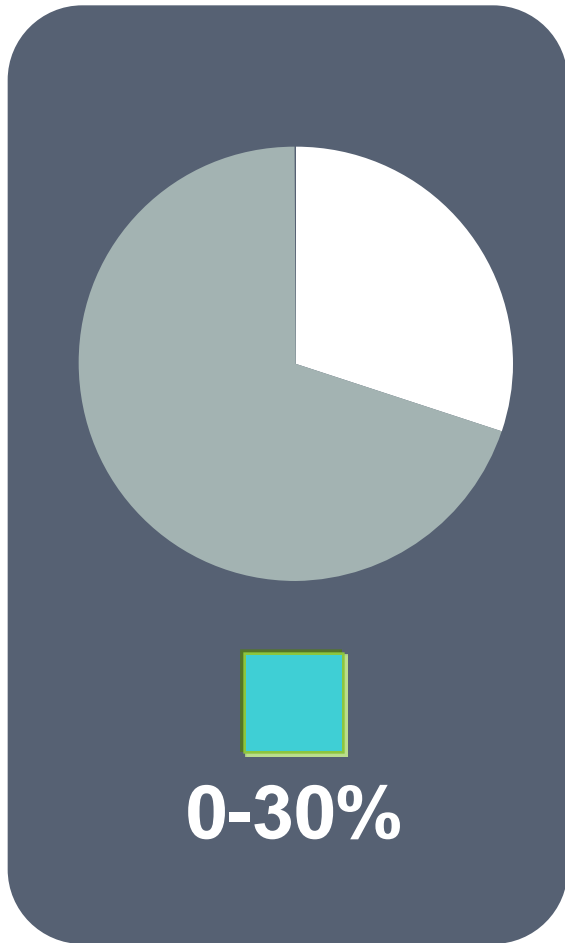


New Data ➡ **New Information** ➡ **New Decisions**

Percentage of users that don't have confidence in their information



Percentage of users that don't have confidence in their information



How much time do managers waste each day, searching for information?



0-30 min



1-3 Hours



Over 3 Hours



Time managers waste each day searching for information



0-30 min



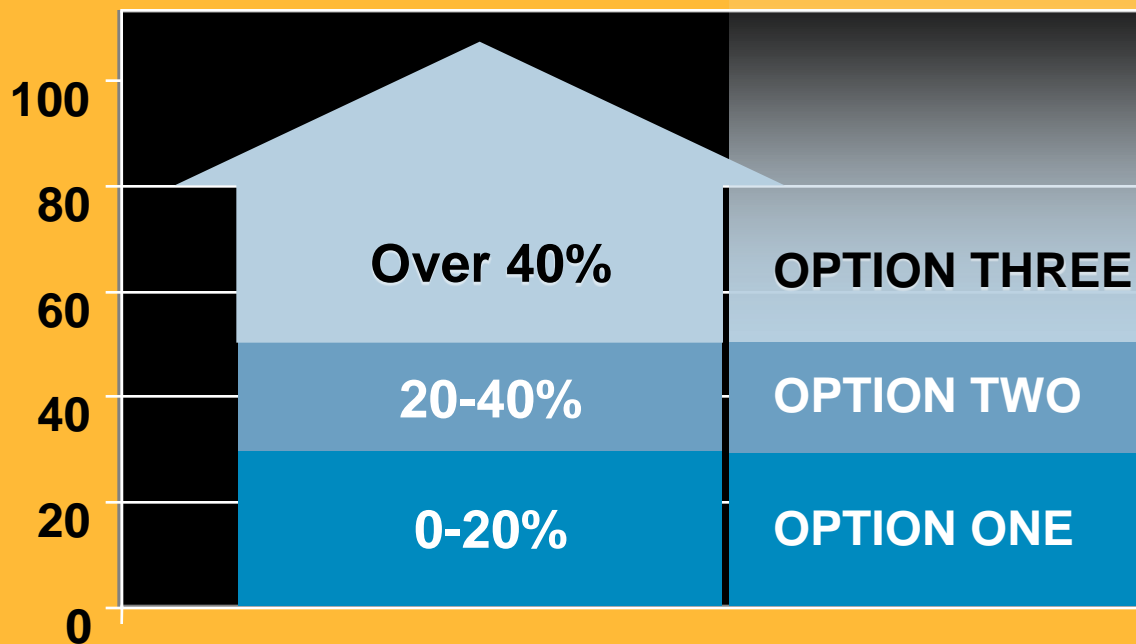
1-3 Hours



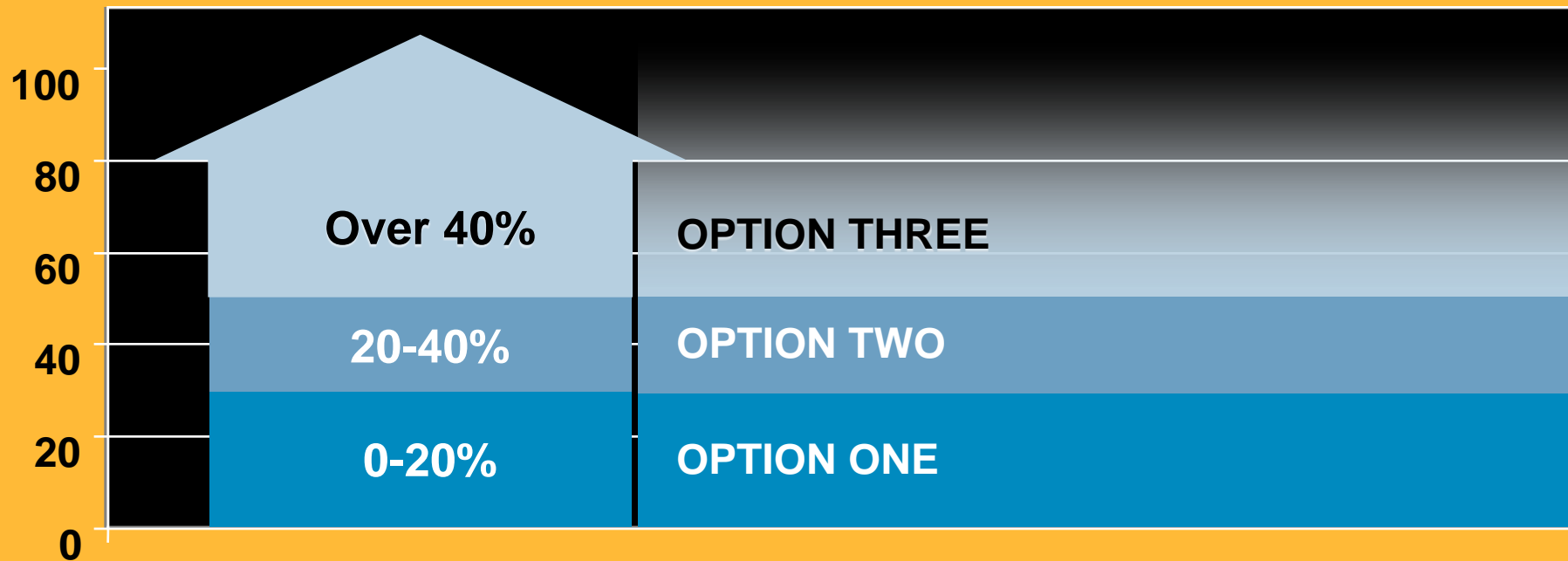
Over 3 Hours



What percentage of managers accidentally use the wrong information at least once a week?

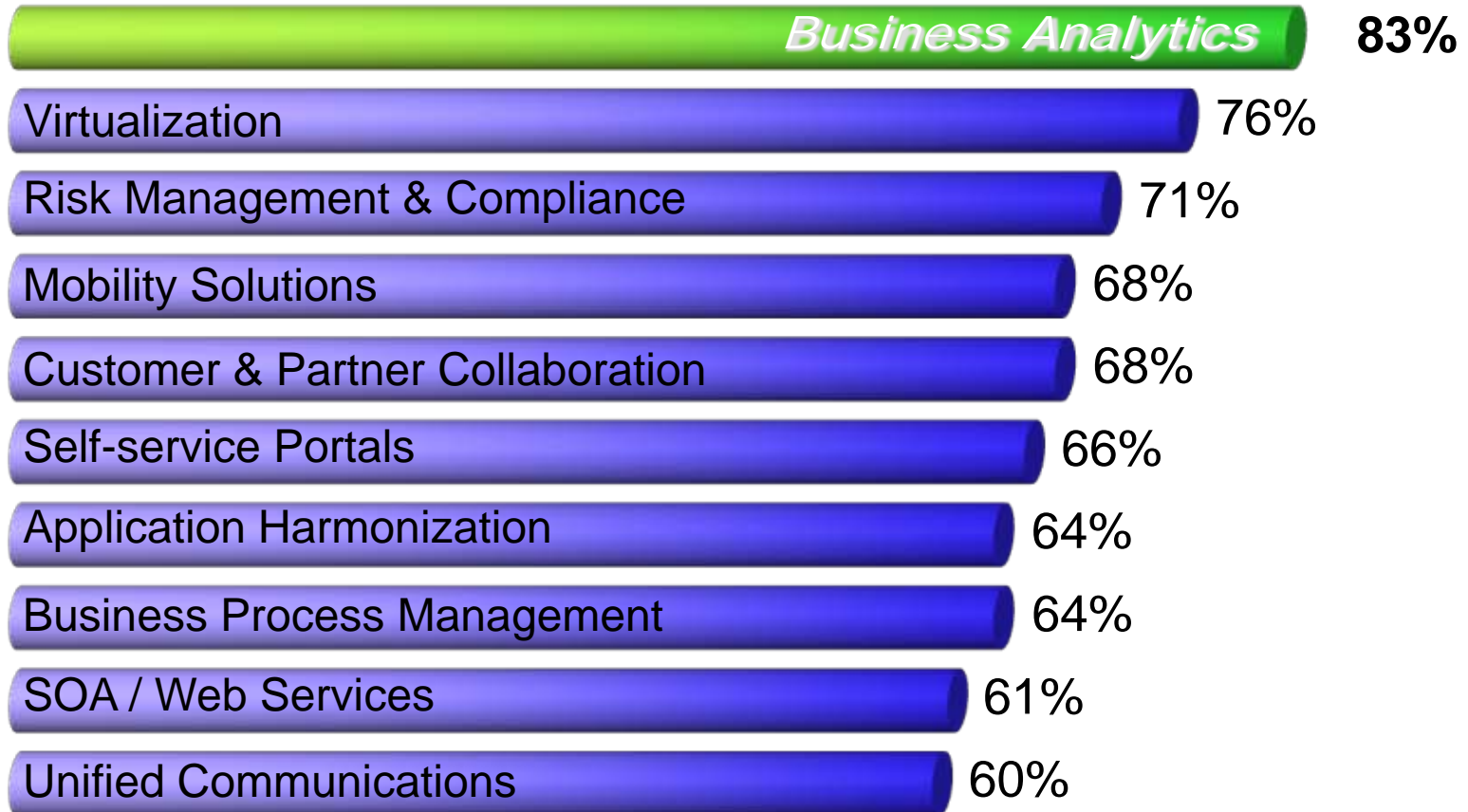


Percentage of managers accidentally use the wrong information at least once a week





#1 CONCERN



Source: IBM Global CIO Study 2009, n = 2345,



New Investments Increasingly Focus on Optimization

Organizations Striving for Competitive Advantage

Business Optimization Growth
is 2 Times Faster than
Business Automation

Competitive Advantage



Faster Processing, Reduced Costs

Business Analytics



- Instrumented
- Interconnected
- Intelligent

Information Led Transformation

PERFORMANCE

DECISION MAKING

TRUSTED INFORMATION

DATA



IBM is Aligning Behind Four Key Initiatives

**“Our resources are limited”
I need efficiency**



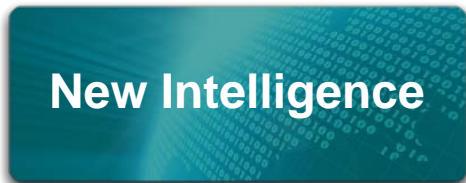
**“My infrastructure is inflexible and costly”
I need to respond quickly**



**“New business & process demands”
I need to work smart**



**“Data is exploding
and it’s in silos”
I need Insight**



IBM Investing in Core Business Analytics & Optimization Capabilities

Services



Customer Analytics
2009



Federal Govt Security
2010

BAO Software



BI & Performance Management
2008



Predictive Analytics
2009



Web Analytics
2010



Business Rules & Optimisation
2008



Foundation



Identity Resolution
2005



Enterprise Data Integration
2005

Business Process & Content Management
2006



Name Recognition
2006



Dynamic Data Integration
2007



Data Discovery
2009



Data Integrity & MDM
2010



Customer Data Integration
2005



Search & Content Management
2005



Metadata Management
2006



Enterprise Data Management
2007



Real-time, In-Memory Data Management
2008



Database Monitoring & Protection
2009



Data Capture & Content Management
2009



Cloud Data Integration
2010

Continued Expansion of These Core Capabilities

OPENPAGES

- **Proven GRC solutions leadership; ~ 200 customers across all sectors**
- **Addresses a growing market opportunity**
 - Expands applications to Enterprise-Wide Risk Management
 - Supports “Office of Finance” with Compliance and Risk Management
 - Deepens existing industry solutions for Integrated Risk Management
 - Arms BAO Services practice with world-class enabling technology platform
 - Synergy with Information and IT Governance, Risk Management, and Security
- **As partner, already embeds IBM Cognos BI and offers IBM Hosting**

NETEZZA

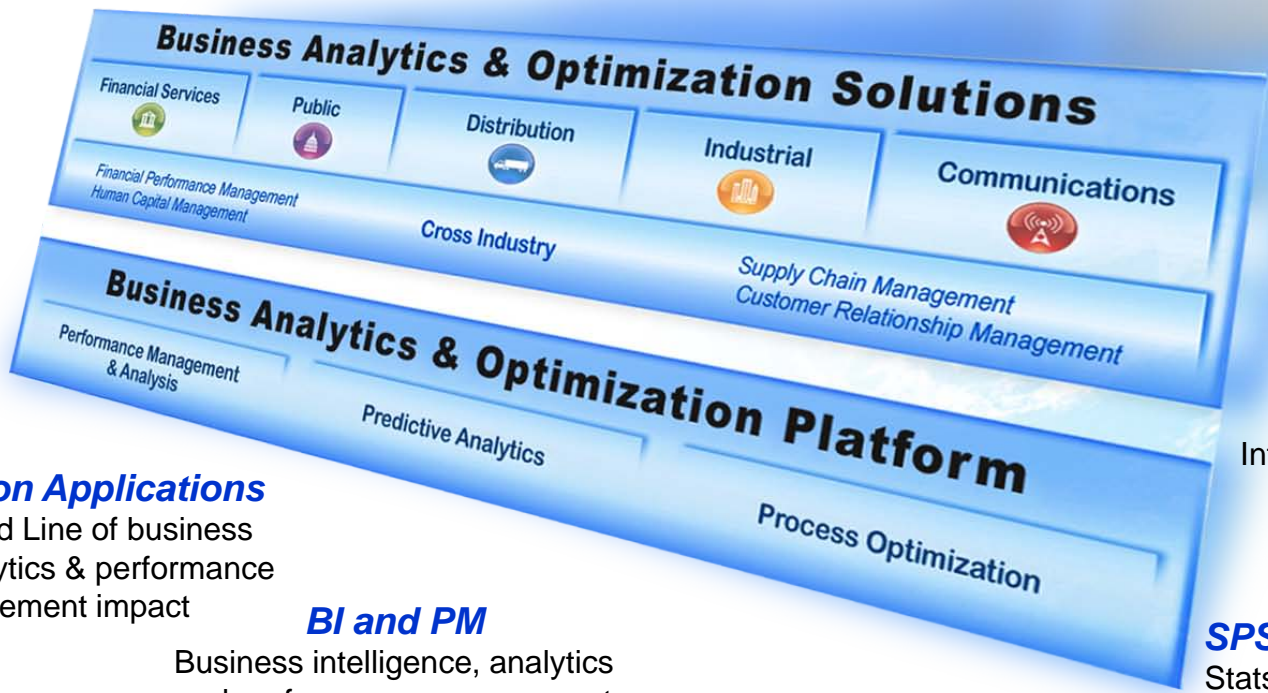
- **Leading provider of data warehouse appliances with over 350 clients with blue chip reference accounts in all major industries**
- **Extends market opportunity**
 - Complements workload optimized systems, and Cognos, SPSS, InfoSphere software
 - Speed and simplicity of deployment accelerates solutions in high-growth markets and among small and mid-size clients
- **Complementary expertise;** Netezza technology and expertise in focused appliances will extend innovation leadership in information appliances

The acquisition is subject to applicable regulatory clearances and other customary closing conditions.

IBM Business Analytics



Cognos
software



Clarity
Financial Governance
(including XBRL)

Open Pages
Integrated Operational Risk
Management

SPSS Predictive Analytics
Stats and predictive analytics for
high impact decisioning

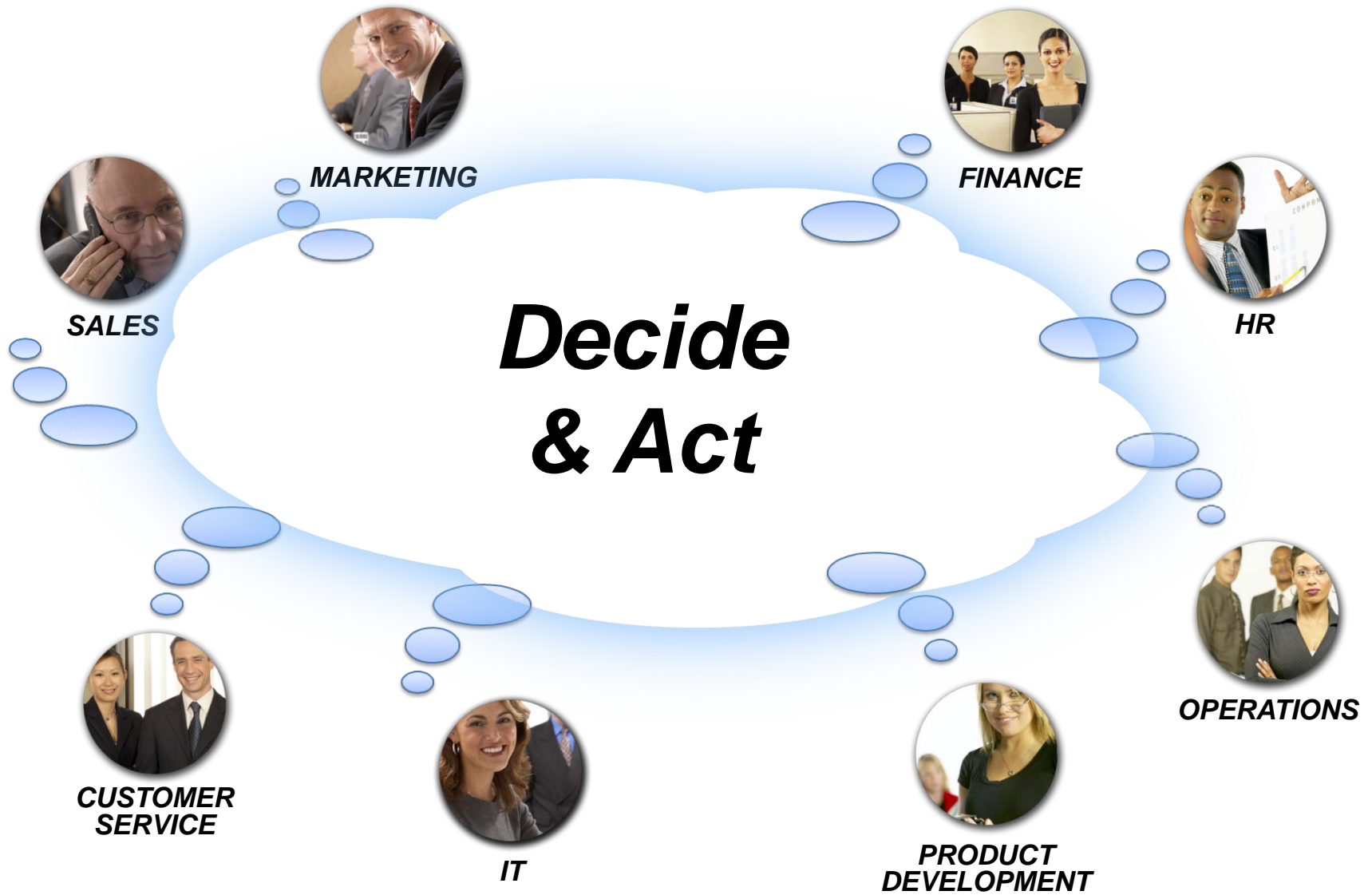
Information Applications

Industry and Line of business
specific analytics & performance
management impact

BI and PM

Business intelligence, analytics
and performance management
platform

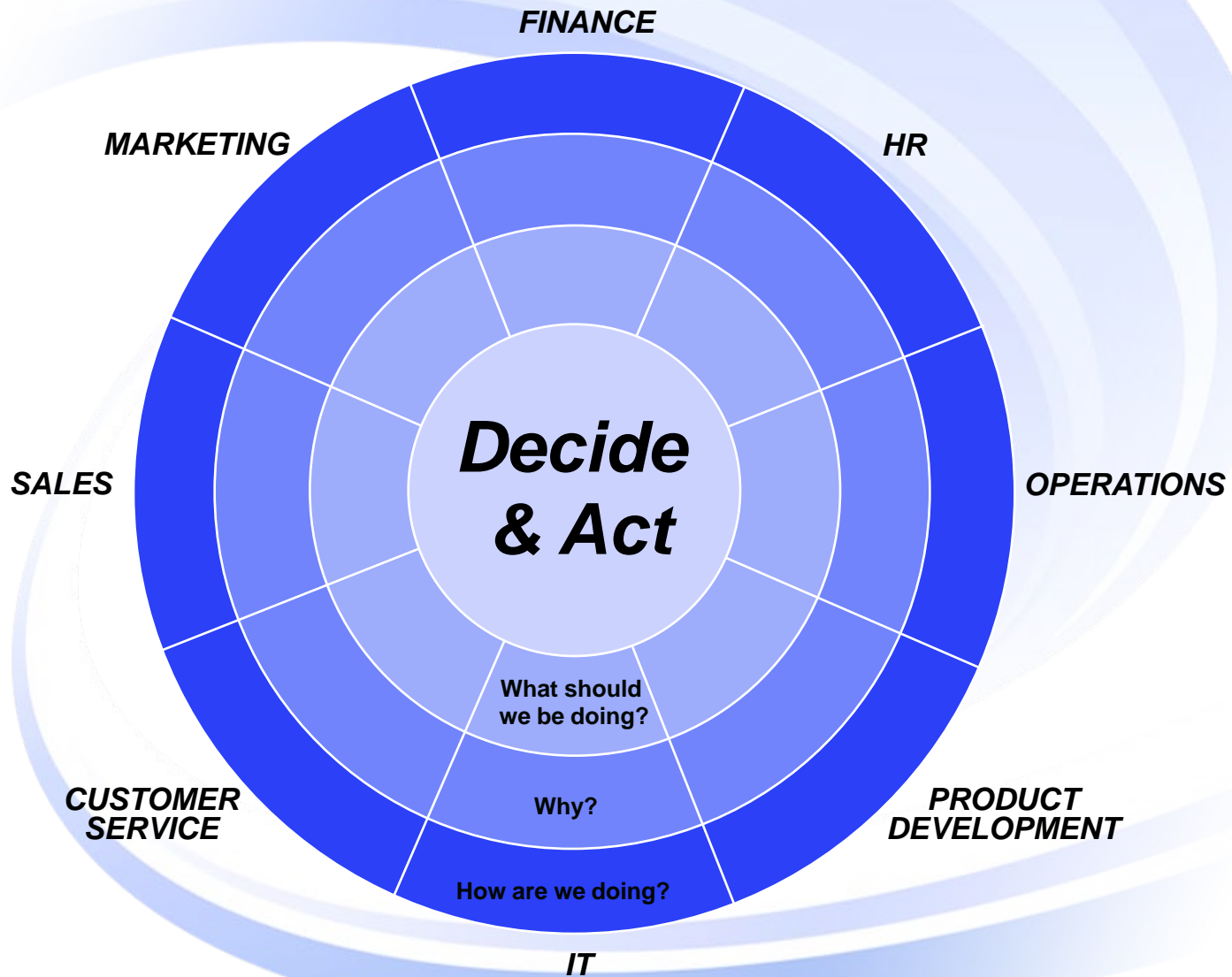
Optimizing Business Performance



Optimizing Business Performance



Informed, Aligned Decisions and Actions

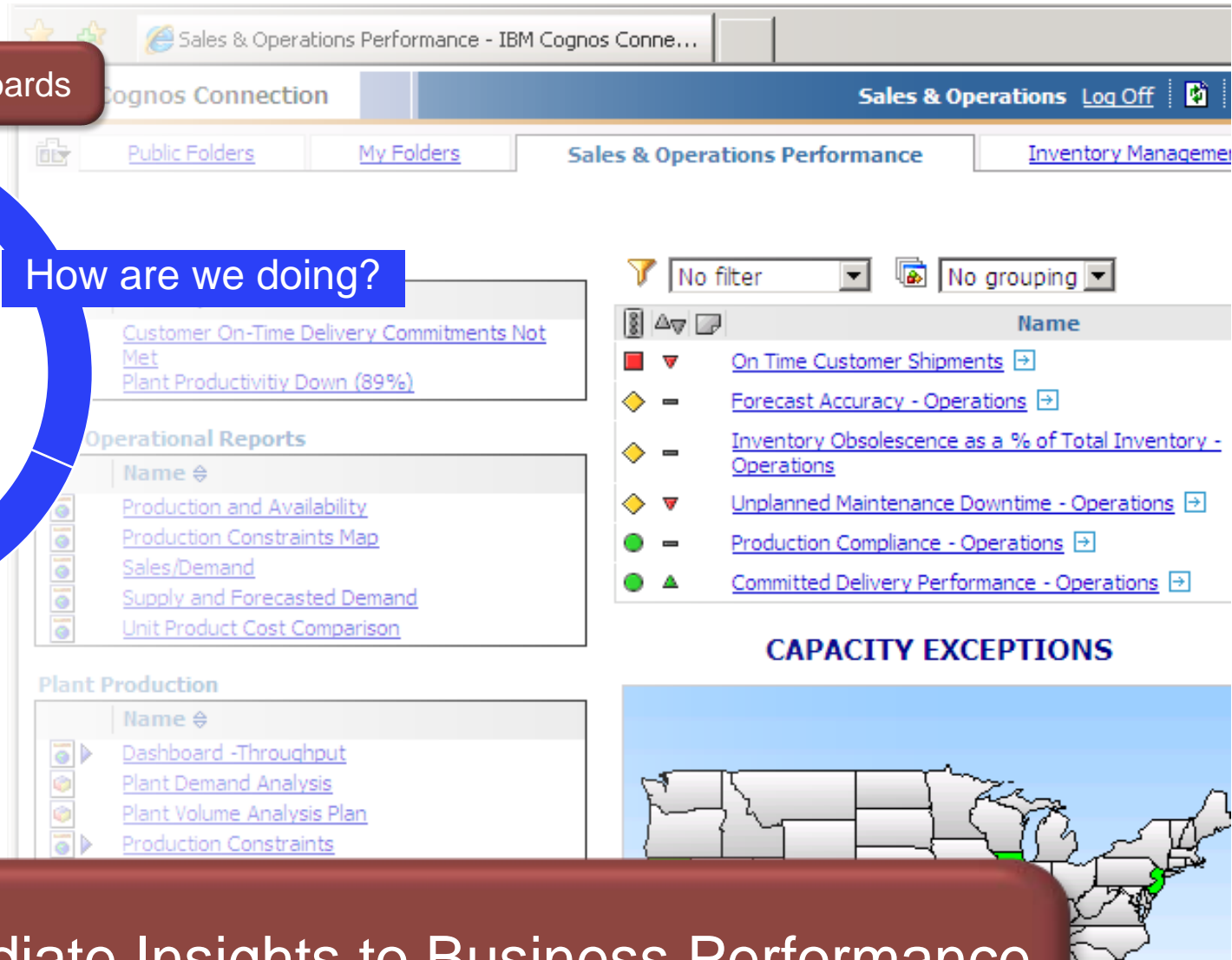


For Example.....

Scorecards & Dashboards

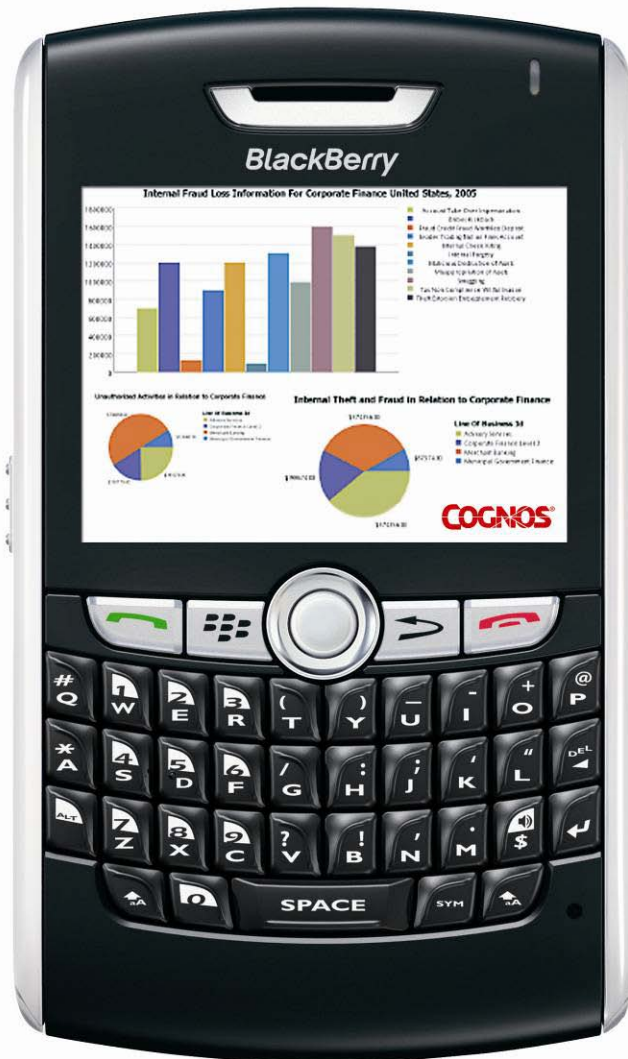
How are we doing?

**Decide
& Act**



Immediate Insights to Business Performance

Example: Cognos Mobile

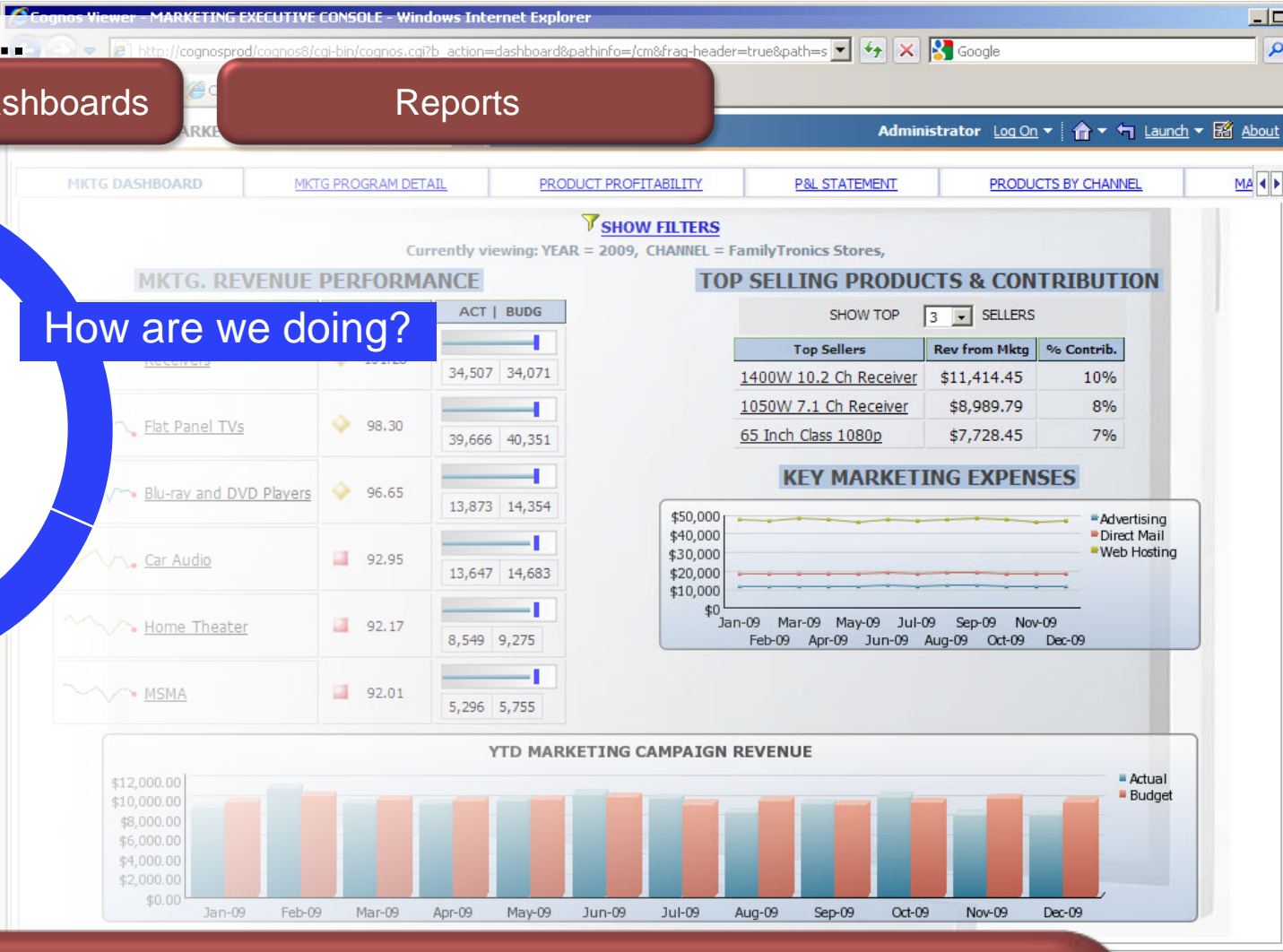


- Delivers Cognos 8 BI content to mobile users
 - Can view and interact with the exact same reports that have been authored for the Web, PDF...
- Leverages the Cognos 8 platform, including security
- Rich native client purpose-built for BlackBerry, Windows Mobile, Symbian

For Example.....

Scorecards & Dashboards

Reports



How are we doing?

Decide & Act

Immediate Insights to Business Performance

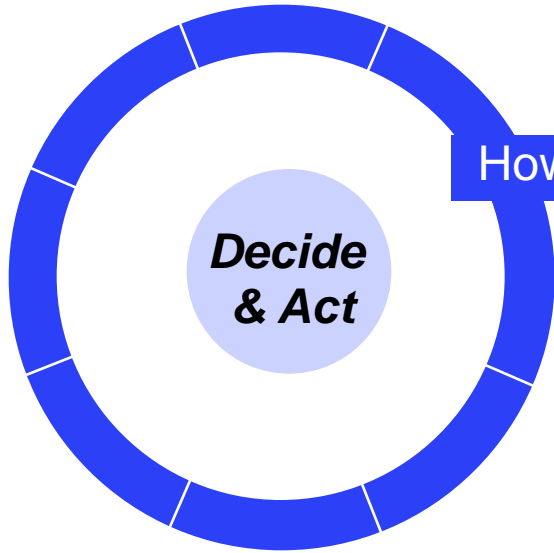


For Example.....

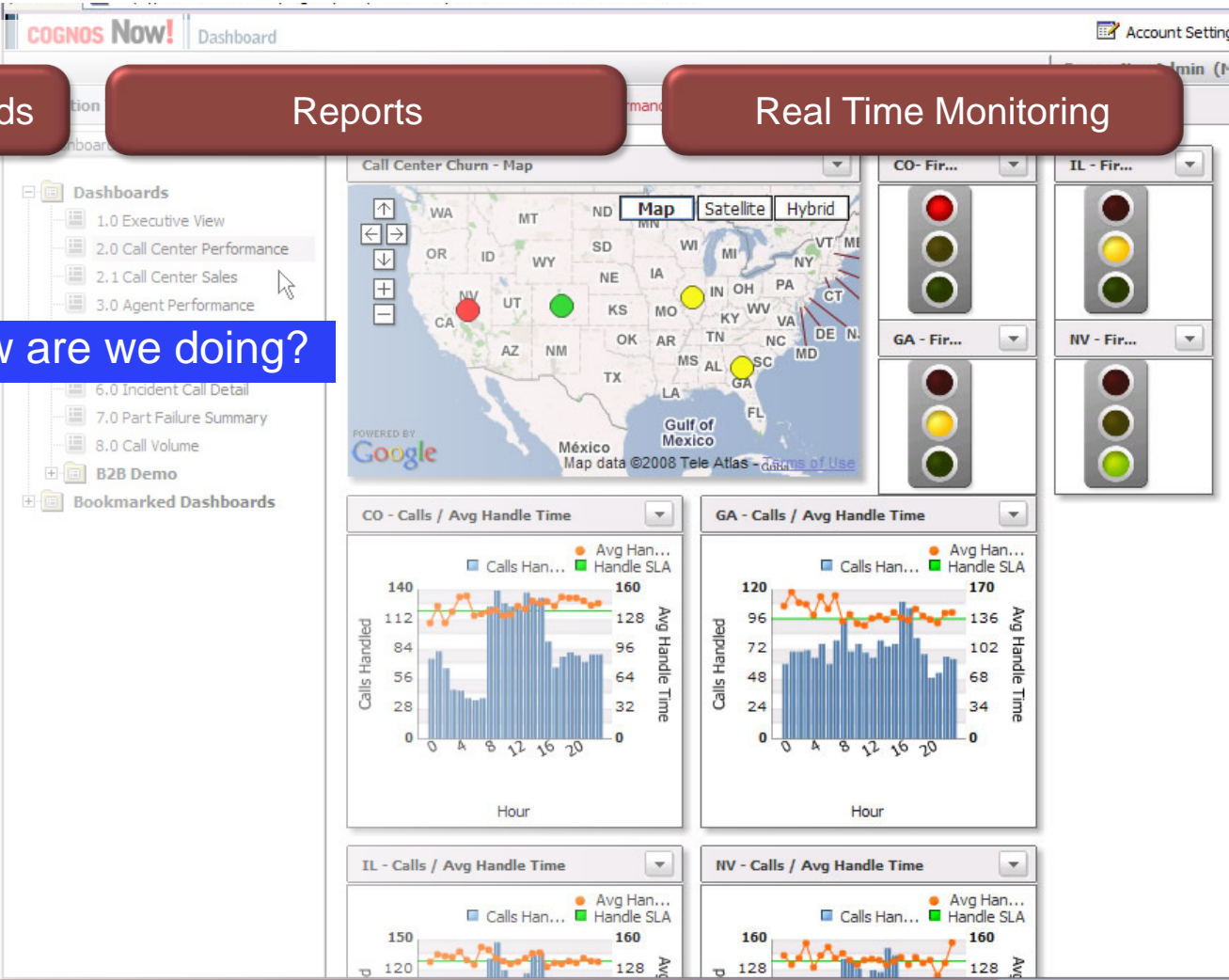
Scorecards & Dashboards

Reports

Real Time Monitoring



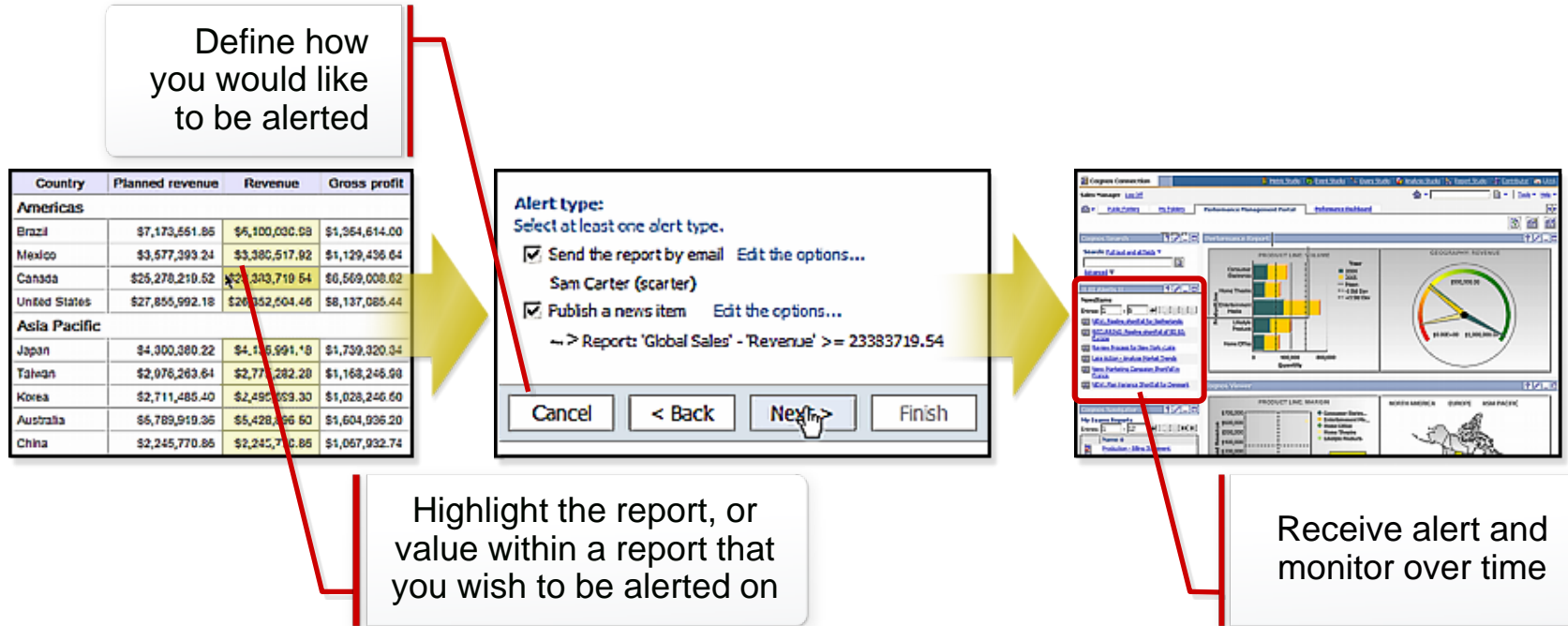
How are we doing?



Immediate Insights to Business Performance



Example: Self-Service Personal Alerts

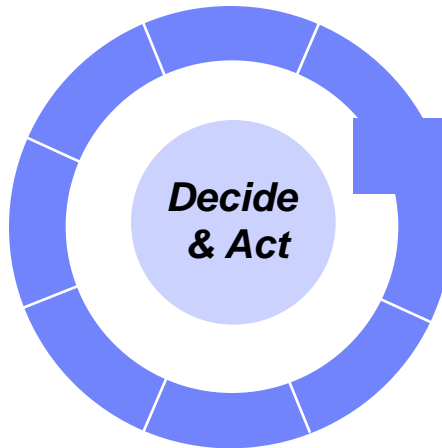


- Users can easily create their own alerts for scheduled reports
- Users can control when and how they receive critical information without IT intervention



For Example.....

Ad Hoc Query



Why?

Returns by Product Type - Query Studio - Windows Internet Explorer

http://cognosd2g/cognos8/cgi-bin/cognos.cgi

Query Studio - Returns by Product Type

Menu

- Insert Data
- Edit Data
- Change Layout
- Combine Filters...
- Suppress...
- Sort...
- Summarize...
- Format Data...
- Calculate...
- Define Custom Groups...
- Drill Down
- Drill Up
- Go To...
- Rename Column Heading...
- Cut
- Paste
- Delete
- Undo
- Redo

Font Size B I U

Returns by Product Type

% Returned: Descending order

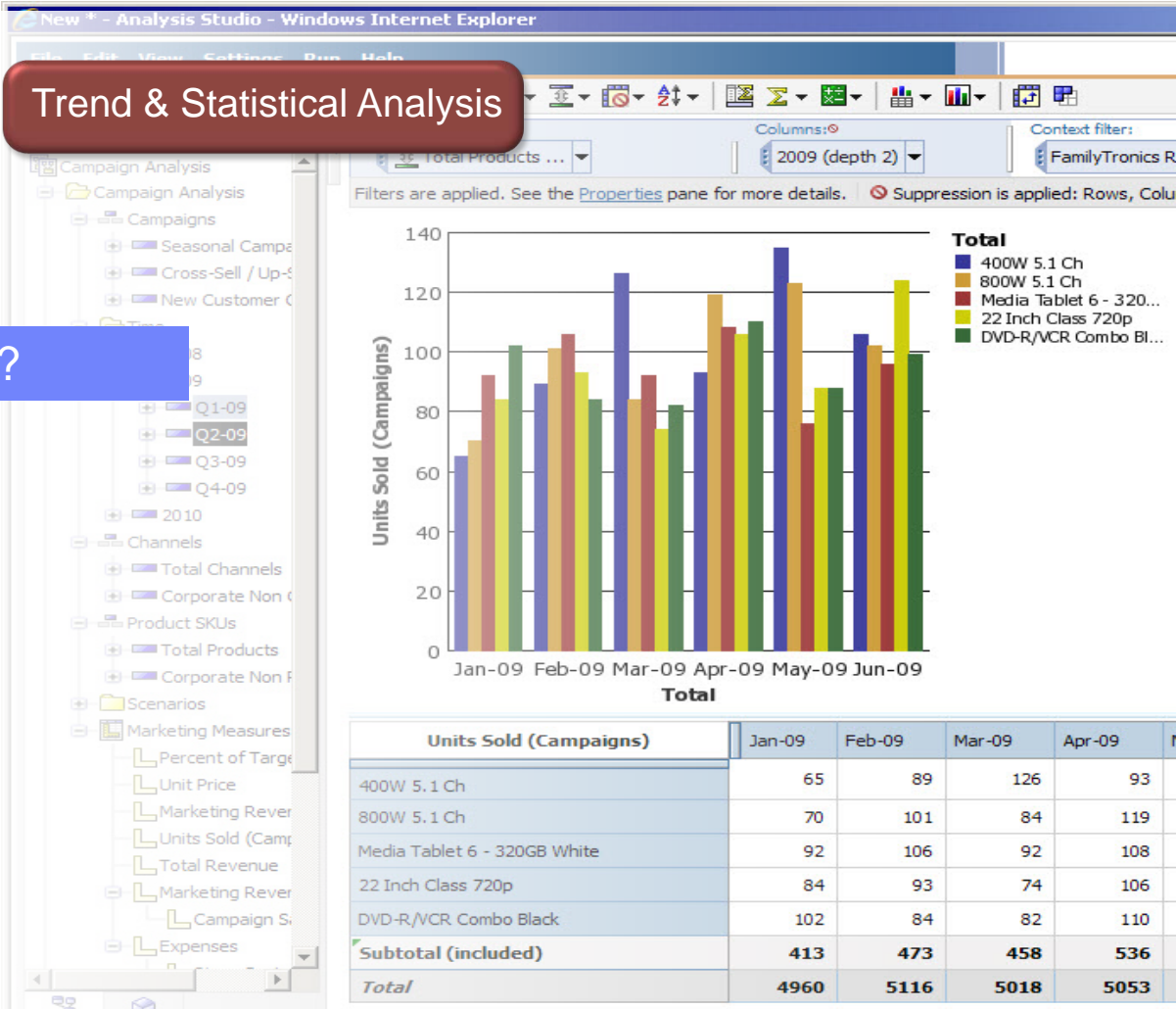
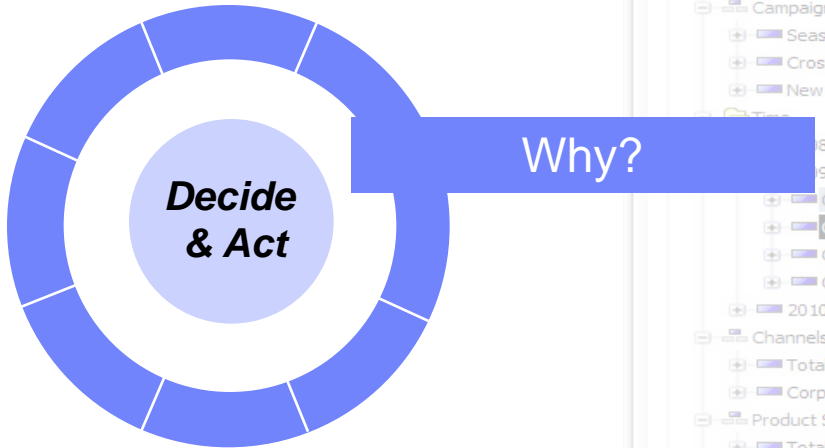
Product type	Base product	Quantity	Return quantity	% Returned	Lost revenue
Binoculars	Seeker 50	159,701	2,282	1.43%	\$211,268
	Opera Vision	82,016	988	1.20%	\$49,798
	Seeker Mini	172,851	1,946	1.13%	\$77,840
	Seeker Extreme	112,199	1,220	1.09%	\$114,826
	Seeker 35	296,455	2,531	0.85%	\$180,182
	Ranger Vision	251,865	2,082	0.83%	\$175,235
Binoculars		1,075,087	11,049	1.03%	\$809,148
Climbing Accessories	Firefly Charger	302,114	3,863	1.28%	\$86,377
	Firefly Rechargeable Battery	1,332,686	14,769	1.11%	\$46,522
	Granite Carabiner	3,146,194	33,811	1.07%	\$66,270
	Granite Pulley	393,842	4,189	1.06%	\$76,868
	Granite Belay	259,975	2,695	1.04%	\$92,897
	Firefly Climbing Lamp	213,370	1,689	0.79%	\$36,428
	Granite Chalk Bag	202,090	831	0.41%	\$7,088
Climbing Accessories		5,850,251	61,847	1.06%	\$412,450
Cooking Gear	TrailChef Cook Set	813,780	10,808	1.33%	\$371,888
	TrailChef Double Flame	245,559	3,229	1.31%	\$242,175
	TrailChef Cup	1,812,123	23,007	1.27%	\$19,611
	TrailChef Kitchen Kit	866,669	10,356	1.19%	\$163,459
	TrailChef Kettle	2,336,950	26,794	1.15%	\$135,799
	TrailChef Utensils	922,090	10,446	1.13%	\$101,162
				1.11%	\$387,244
				0.92%	\$109,621

Deeper Analysis of Trends & Patterns

For Example.....

Ad Hoc Query

Trend & Statistical Analysis



Deeper Analysis of Trends & Patterns

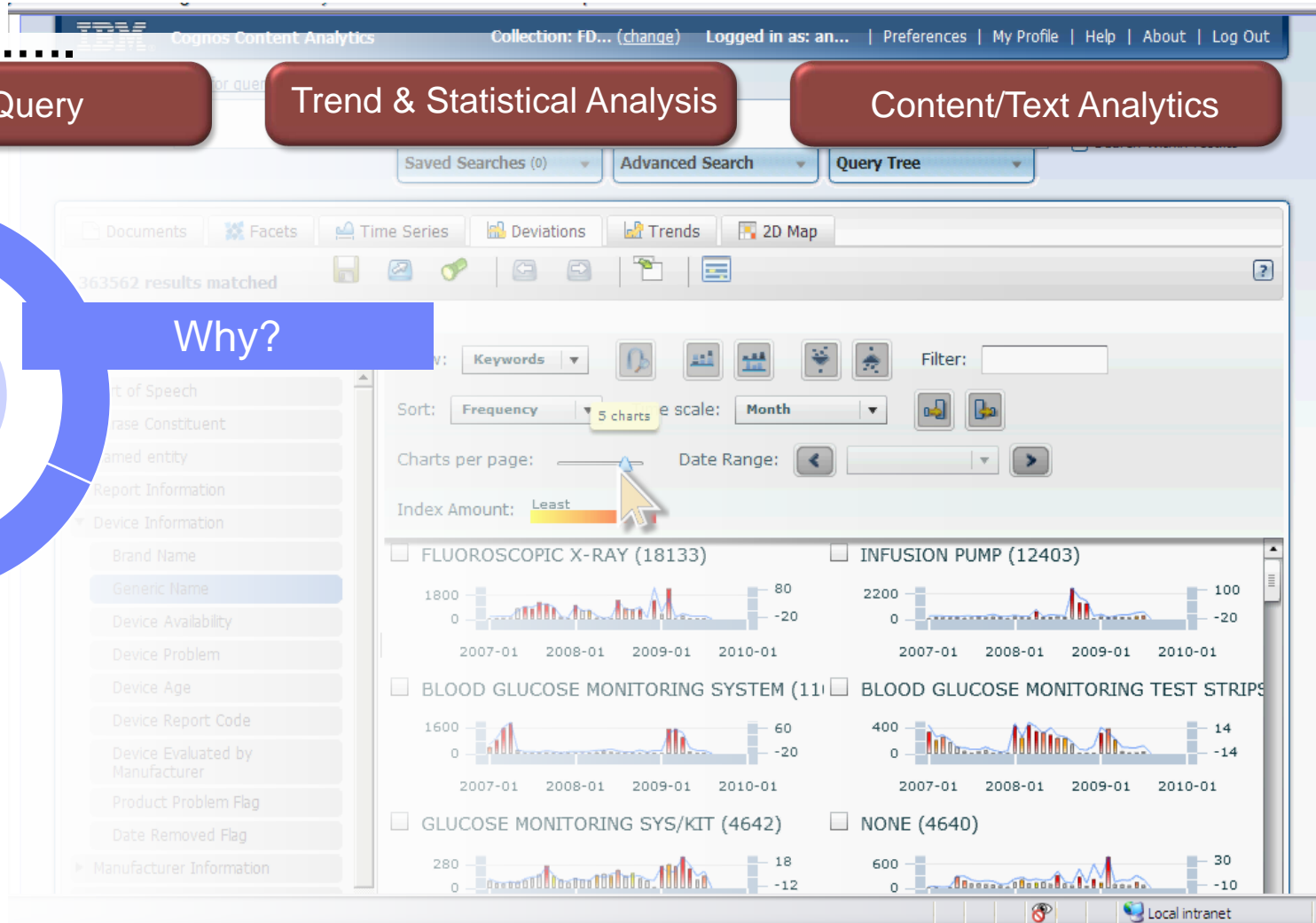
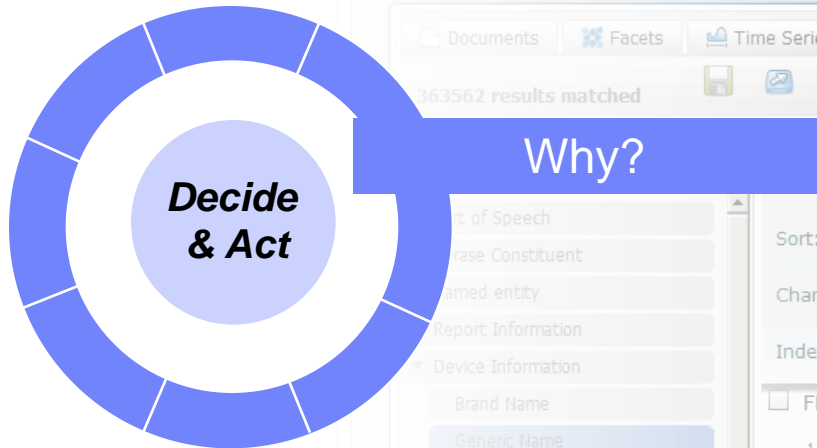


For Example.....

Ad Hoc Query

Trend & Statistical Analysis

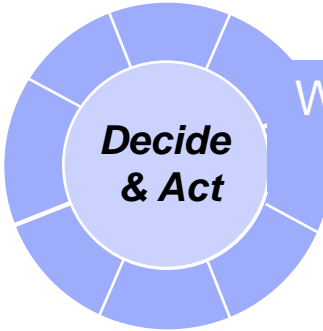
Content/Text Analytics



Deeper Analysis of Trends & Patterns

For Example.....

Predictive Modeling



What should we be doing?

The screenshot shows the IBM Cognos Modeler 13 interface. On the left, a data flow diagram starts with a source 'MARTS.PRODUCT' (SQL icon) leading to a 'Merge' node, then to a 'Filter' node (10.0%), and finally to a 'Select' node. The 'Select' node outputs to a target 'TRAN'. On the right, a lift chart table is displayed for the association 'IDV_IP_ID & PD_SUB_DEPT_NM'. The table has columns for Consequent, Antecedent, Support %, and Confidence %.

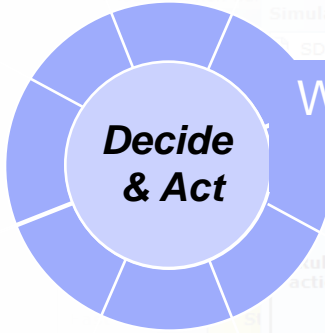
Consequent	Antecedent	Support %	Confidence %
Giveaways Snacks	Lunchtime	7.571	15.834
Lunchtime	Giveaways Snacks	3.402	35.244
Giveaways Lunchtime	Snacks	12.514	9.58
Snacks	Giveaways Lunchtime	2.25	53.291
Cosmetics Snacks	Lunchtime	7.571	13.628
Lunchtime	Cosmetics Snacks	3.217	32.08
Cosmetics Hair Care	Giveaways Skin Care	5.814	20.885
Giveaways Skin Care	Cosmetics Hair Care	5.033	24.126
Cosmetics Skin Care	Giveaways Hair Care	5.471	22.195
Giveaways Hair Care	Cosmetics Skin Care	5.455	22.257
Cosmetics Snacks	Lunchtime	12.514	8.246
Snacks	Cosmetics Lunchtime	2.028	50.89
Cosmetics Giveaways	Hair Care Skin Care	4.331	28.038
Hair Care Skin Care	Cosmetics Giveaways	7.308	16.615

Foresight to Plan & Allocate Resources

For Example.....

Predictive Modeling

Decision Management



What should we be doing?

Simulation Data Source: SOBank Claims Data | Simulation Date: 2010-08-02 13:39:39 | Claim Area: Automotive

Model actions	Model actions			Results		
	Standard	Fast Track		Action	Count	Percent
Refer	Refer	Refer	Standard	Fast Track	691	88.59%
Standard	Refer	Standard	Fast Track	Refer	42	5.38%
Fast Track	Standard	Fast Track	Fast Track	Standard	47	6.03%
					780	100%

Name: Run 2 [Run] [Update Settings] [Close]

Total Simulation Records: 975

Display: Count | Number of runs retained: 1

Action	Run1	Distribution
Fast Track	691	[Bar]
Refer	42	[Bar]
Standard	47	[Bar]

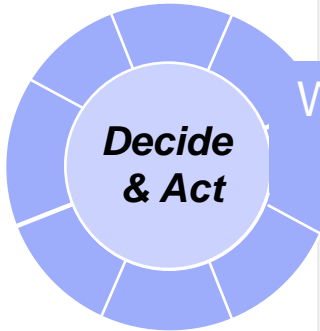
Foresight to Plan & Allocate Resources

For Example.....

Predictive Modeling

Decision Management

Planning & Budgeting



What should we be doing?

Planning and Analysis - Total Company - IBM Cognos Connection - Windows Internet Explorer

Income Statement
Inventory Analysis

Net Profit

Region	Q1	Q2	Q3	Q4
Eastern Region	40,000,000	40,000,000	40,000,000	40,000,000
Central Region	60,000,000	60,000,000	60,000,000	60,000,000
Western Region	80,000,000	80,000,000	80,000,000	80,000,000
Canada	140,000,000	140,000,000	140,000,000	140,000,000

Expenditures Detail

Category	Budget - 2009	Actual - 2008
6099 PAYROLL	4,000,000	5,000,000
6199 OFFICE EXPENSE	4,000,000	4,000,000
6299 TRAVEL	8,000,000	7,000,000

Contributions

- Massachusetts
- Maryland
- Georgia
- Michigan
- Illinois
- California
- Washington
- Toronto
- Vancouver
- Calgary

Reviews

- Total Company

You are a reviewer or contributor for:

Name	State	Ownership	Reviewer	Last Data Comm
Massachusetts	<input type="radio"/> Not Started	None	LDAP\Jeff Richards	Never committe
Maryland	<input type="radio"/> Not Started	None	LDAP\Jeff Richards	Never committe
Georgia	<input type="radio"/> Not Started	None	LDAP\Jeff Richards	Never committe
Michigan	<input type="radio"/> Not Started	None	LDAP\Trent Green	Never committe
Illinois	<input type="radio"/> Not Started	None	LDAP\Trent Green	Never committe
California	<input type="radio"/> Not Started	None	LDAP\Trent Green	Never committe
Washington	<input type="radio"/> Not Started	None	LDAP\Trent Green	Never committe
Toronto	<input type="radio"/> Not Started	None	LDAP\Trent Green	Never committe
Vancouver	<input type="radio"/> Not Started	None	LDAP\Trent Green	Never committe

Foresight to Plan & Allocate Resources

Three Questions for Business Insight



Source: 2010 IBM Global CFO study



All BI Capabilities in One Solution

- Full range of capabilities needed to improve decision-making and manage performance

Cognos BI

- Query
- Reports & Dashboards
- Analysis
- Scorecards
- Event Management
- Google Search
- Mobile
- Office

Eliminates need for multiple tools,
lowering costs and easing standardization

Business Analytics & Optimization Solutions

Industry Solutions



Financial Services



Public



Distribution



Industrial



Communications

Cross-Industry Solutions

Finance

Human Capital

Supply Chain / Operations

Customer

Business Analytics

Business Intelligence

Predictive & Advanced Analytics

Financial Performance & Strategy Management

Governance, Risk & Compliance

Analytic Applications

Information Management and Governance

Information Integration & Master Data Management
Data Warehousing

Content Management

Data Management

Workload Optimized Systems



Business Analytics & Optimization Solutions

Industry Solutions



Financial Services



Public



Distribution



Industrial



Communications

Cross-Industry Solutions

Finance

Health

Retail / Consumer

Customer

Business Analytics

Business Intelligence

Predictive Analytics

COGNOS

Analytic Applications

Information Management and Governance

Integration & Master Data Warehousing

Content Management

Data Management

Workload Optimized Systems



Cognos 10: Intelligence Unleashed

Smarter Decisions. Better Results.

Freedom to Think

- Unified workspace
- All time horizons
- Progressive interaction

Connect with Others

- Decision networks
- Business context
- Accountability

and Simply Do

- Mobile and Disconnected
- Integrated
- Real-time

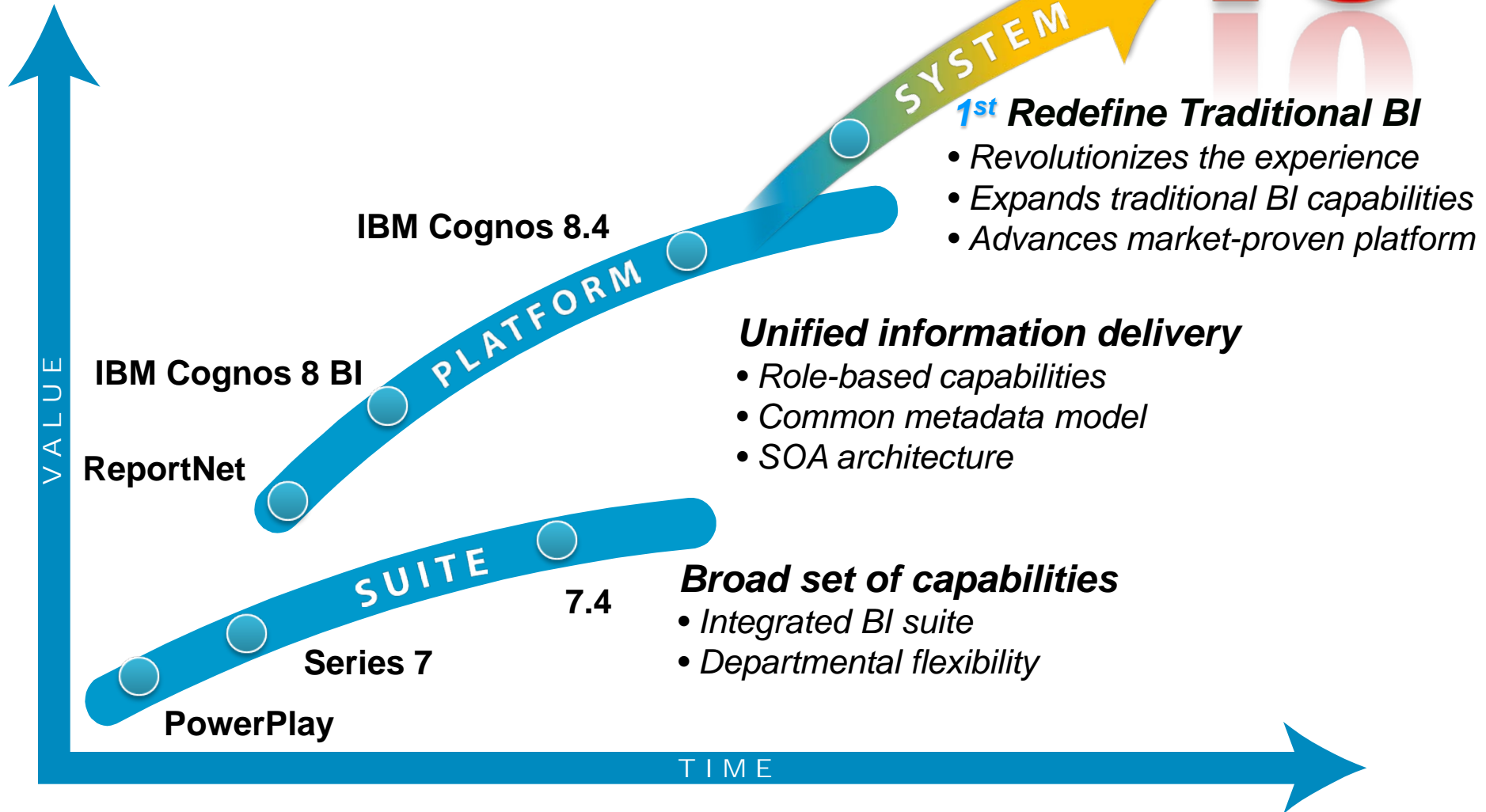


**A revolutionary BI workspace
delivered on a proven platform
with seamless upgrade**

Cognos 10 begins a new series of innovations for Business Analytics

10

COGNOS



The Top 10 of Cognos 10



1. **Unified workspace** with greater power, intuitive navigation and cleaner look
2. **Breadth of analytics** across historical, real-time and predictive information
3. **Collaborative BI** through built-in collaboration and social networking
4. **Easy data inclusion** by the business from one value, to entire data sets and external files
5. **Analytics on the go** for more devices and disconnected interaction
6. **Faster performance** with in-memory processing
7. **Seamless upgrade** and ease of ongoing management
8. **Trusted expertise** with built-in training videos, 'how-to' books and user communities
9. **Expanded deployment options** include Cloud, System z, and Power
10. **Cognos 10 Ready added value** of TM1, Planning, Analytic Applications and SPSS Modeler





Unified workspace with greater power, intuitive navigation and cleaner look

Breadth of analytics across historical, real-time and predictive information

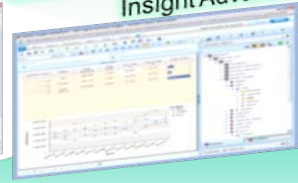


Unified Workspace delivering breadth of analytics

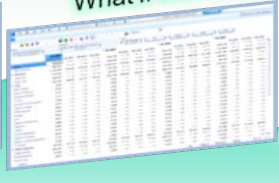
Drill with
Business Insight



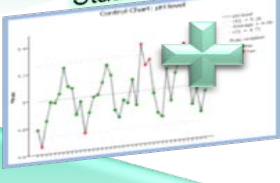
Slice & Dice with Business
Insight Advanced



What If with TM1



Stats with Cognos
Statistics & SPSS



Social Collaboration
with Lotus Connections



Analytical Reporting
Drill

Real-Time
What is

Scenario Modeling
What-if

Advanced Analytics
What might be

Revenue Dashboard



Choose Year

2007 2008 2009 2010

2007 - 2010

Choose Product

(Select All)

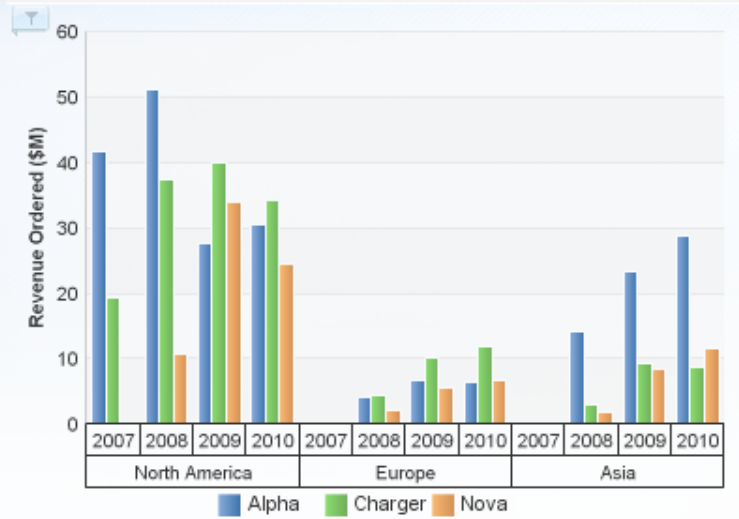
Alpha

Charger

Nova

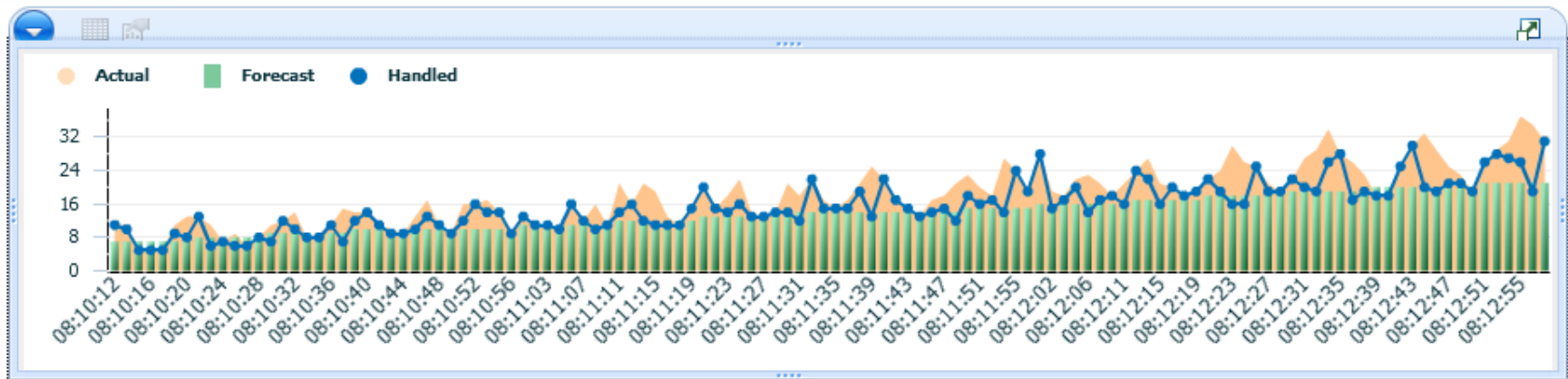
Apply Cancel

Revenue by Region Chart



Units Ordered

Units Ordered	2007	2008	2009	2010	Total
Alpha	3,475	6,527	5,762	6,916	22,680
Charger	1,068	2,588	3,547	3,359	10,562
Nova		786	2,557	2,149	5,492
Total	4,543	9,901	11,866	12,424	38,734



Revenue Dashboard



Choose Year

2007 2008 2009 2010

2007 - 2010

Choose Product

(Select All)

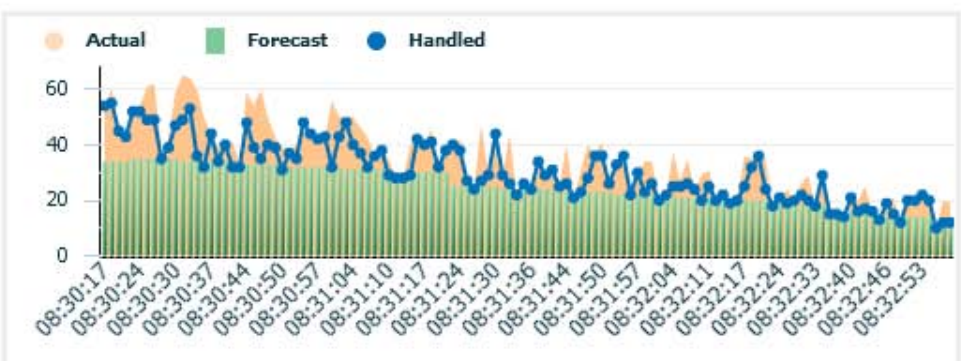
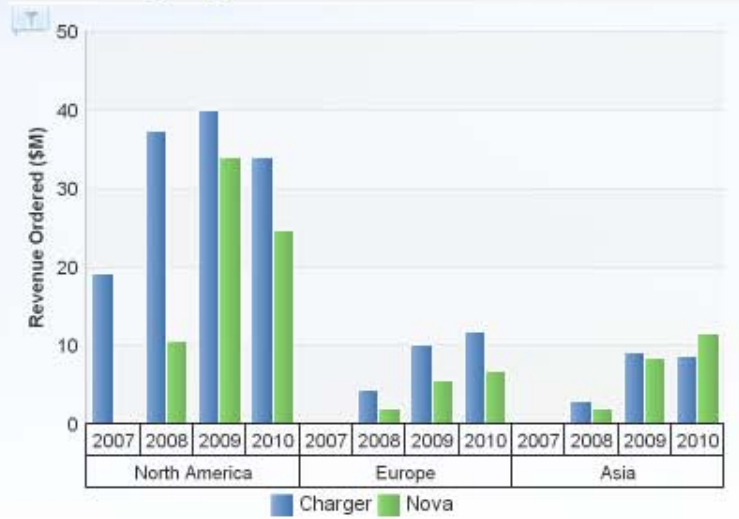
Alpha

Charger

Nova

Apply Cancel

Revenue by Region Chart





What-if analysis and local scenarios



“How much do we need to increase pipeline or conversion rates to impact sales for poorly performing segments by \$X”? – Sales Manager

“If we reduced materials and inventory holding costs by 5%, how much would this reduce our total inventory costs”? - Operations Manager

“If we decreased campaign and promotional spending by x%, how much would this impact our lead generation numbers”? - Marketing Manager

“How would a 10% reduction in our sales workforce potentially impact sales performance”? - HR Manager

CUSTOMER NEEDS

- **Everyone needs greater understanding to drive better decisions in the organization**
 - All decision makers need insight beyond dashboards and managed reports
 - Analysts need to inform the organization with insight beyond reporting numbers
 - Advanced Analysts want to uncover patterns and relationships beyond information manipulation
- **Organizations need to expand the information set they consider for analysis**
 - Analyzing all available information to drive informed decisions
- **Organizations must infuse analysis throughout decision-making to sustain competitiveness**
 - Ability for all users to analyze information to drive better business decisions
 - Business users want to self-discover, manipulate information, model data to create scenarios



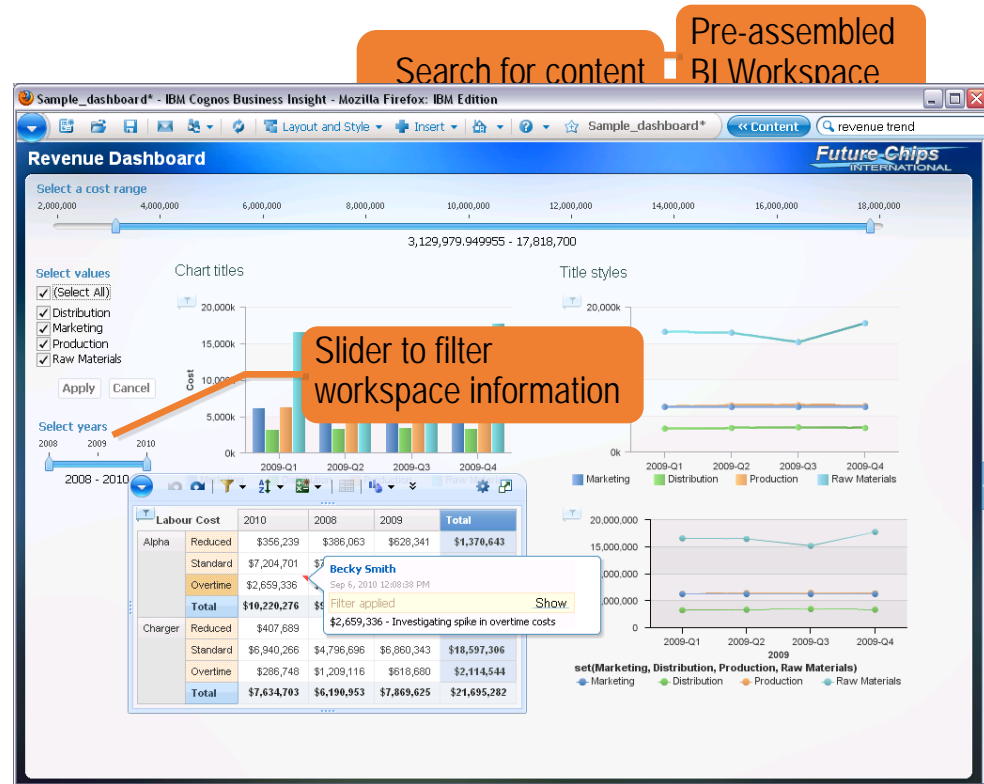
A BI workspace that is the start of your day

Intuitive and easy to use it is the single place that you go to find and do your work.

IBM Cognos Business Insight

Solution Highlights

- Pre-assembled workspace content
- Search assisted authoring
- Drag and drop assembly
- Dynamically filter
- Quicker and deeper insight in to data
- Seamless graduated experience



Seamlessly shift to more advanced analysis



Business Analyst

Perform complex analysis tasks quickly and easily to get to the "why" behind an event or action to improve business performance

IBM Cognos Business Insight Advanced

Solution Highlights

- Intuitive drag-and-drop interface
- Integrated data exploration and analysis
- Calculations, drill, filter, pivot, top/bottom count
- Manage set definitions
- Flexible format, layout and distribution
- Multiple queries, formatting and charting

Standard and Style toolbars

Switch between metadata or member tree

View and edit set definitions

Easily select common analysis gestures

Year	Units	Standard	Actual	Standard
2009-Q1	4,650	428		
2009-Q2	4,925	1,209	3,336	
2009-Q3	5,153	1,702	3,451	
2009-Q4	5,061	1,559	3,452	
2009	19,839	5,098	13,743	

Set Definition

- Top 3 based on Units
- Top 5 based on Units
- Top 10 based on Units
- Bottom 3 based on Units
- Bottom 5 based on Units
- Bottom 10 based on Units
- Custom...



Collaboration is Everywhere



The Chasm



Expectations in a business context



Business User

“I need to easily connect with people who are relevant to the decisions I make.”



Manager

“I need to better understand the perspectives of my colleagues.”



Executive

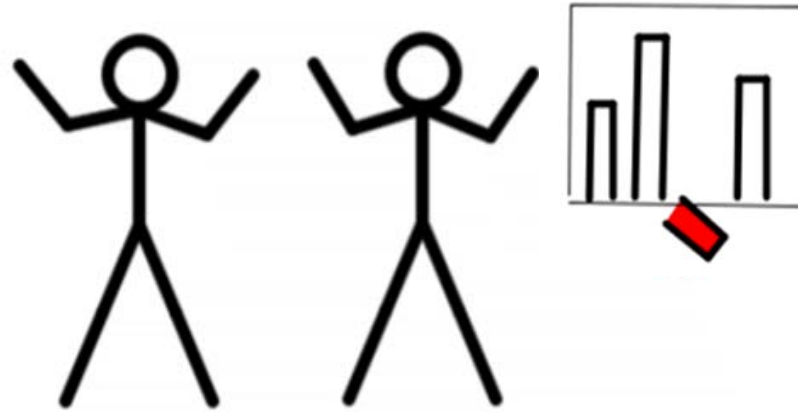
“I need to easily access decision history in order to learn, reference and create best-practices.”

How you collaborate with BI today



How you collaborate with BI today

Did you include all the right people?

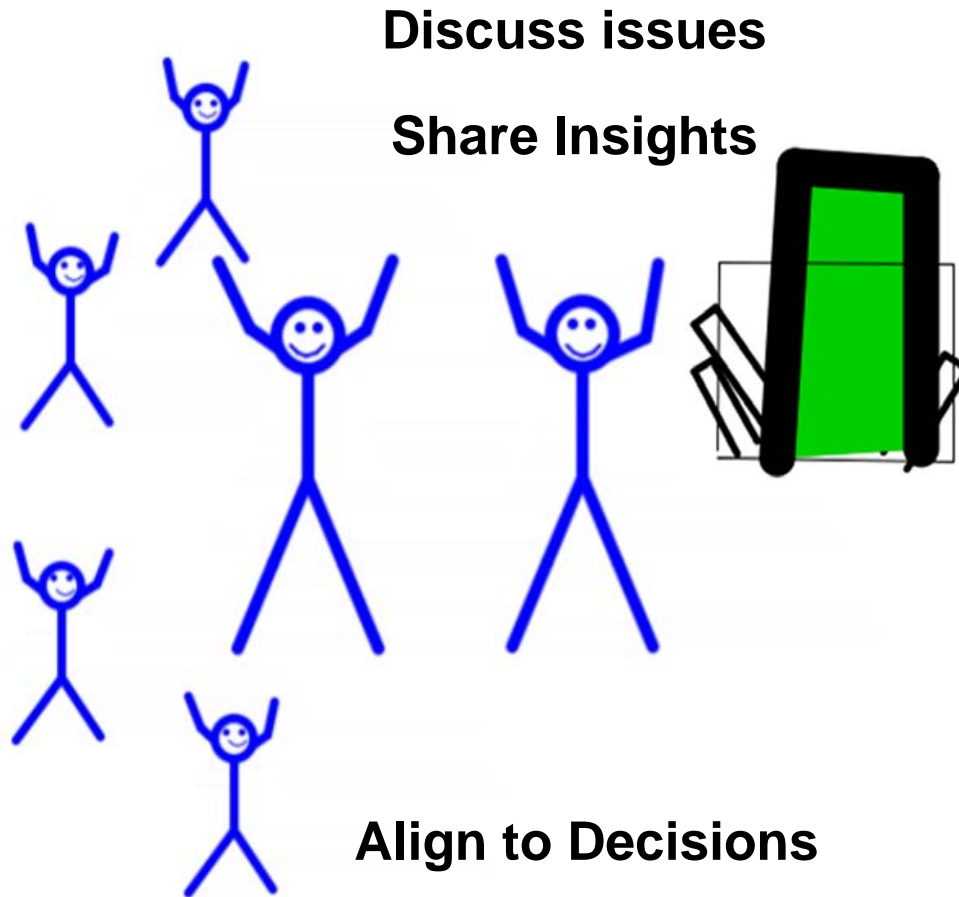


Did you have all the information to make the right decision?

How you collaborate with IBM Cognos Collaboration



How you collaborate with IBM Cognos Collaboration





IBM Cognos Collaboration

IBM Cognos 10 BI

Reports

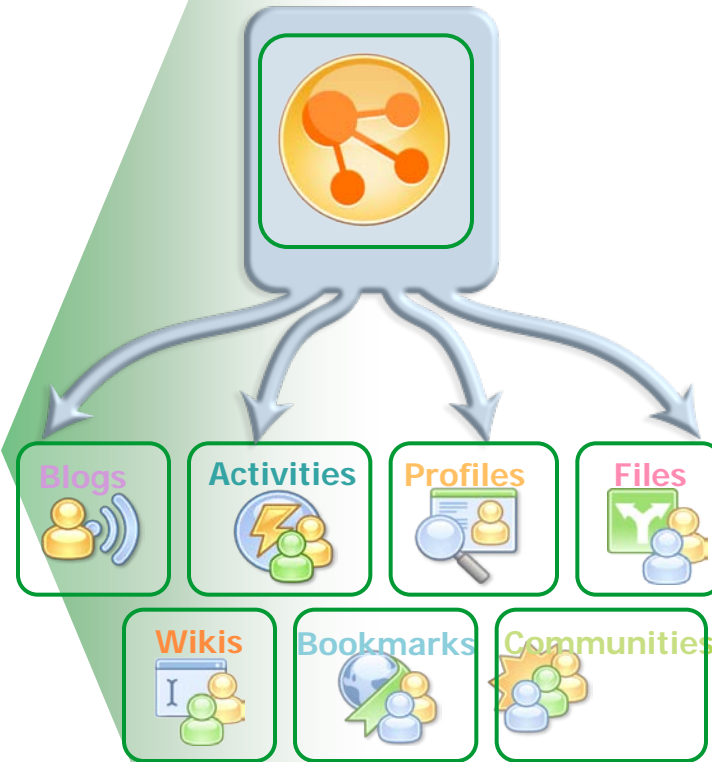
Ad-hoc queries

Analysis

Dashboards

**IBM Cognos
Collaboration**

Lotus Connections





Integration with Lotus Connections



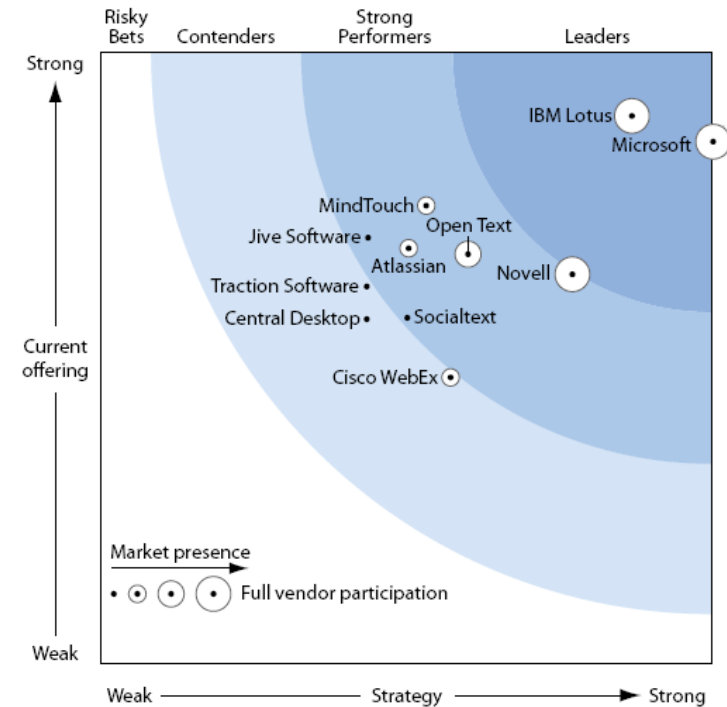
IBM positioned as a **leader** in Gartner's Magic Quadrant.

Gartner Magic Quadrant for Social Software in the Workplace, October 2009:
copyrighted October 2009
by Gartner, Inc

IBM's Lotus Connections looked, at minimum, a year or more **ahead of SharePoint** in its social computing capabilities out of the box. It was a lot prettier looking, too.

C.G. Lynch, CIO.com Rants: Enterprise 2.0 Faceoff: Microsoft Lags Behind IBM in Social Software, June 10, 2008

Figure 3 Forrester Wave™: Collaboration Platforms, Q3 '09



Source: Forrester Research, Inc.

Products Workspace

2010 Expenses



YTD Cost

120,111,102

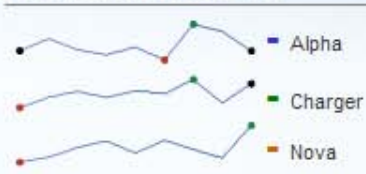
2010 Income Statement



YTD Income

207,446,557

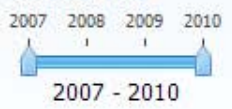
2010 Revenue by Products



YTD Product Sales

104,410,797

Choose Year

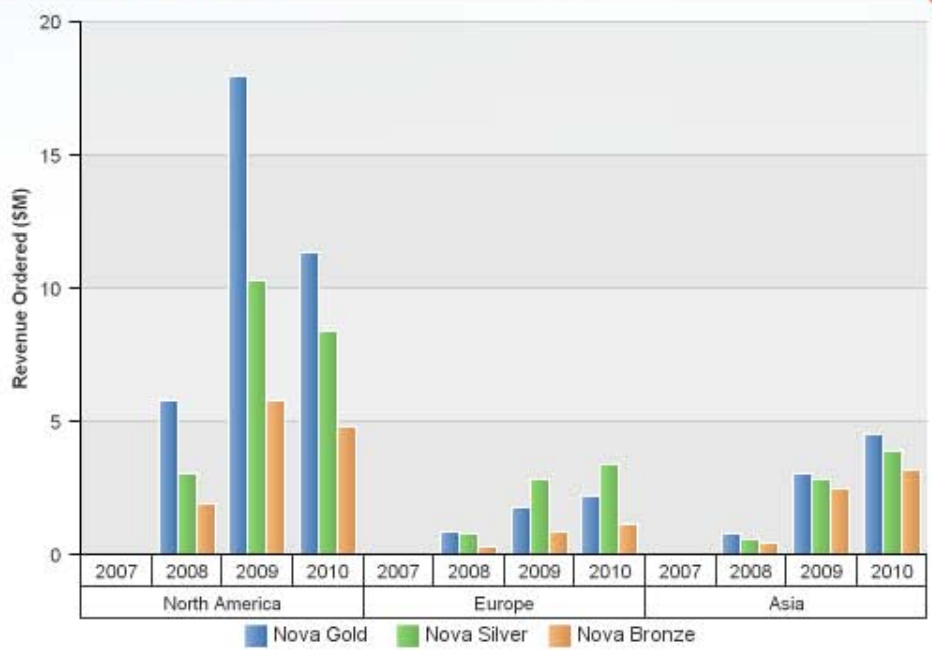


Choose Product

- (Select All)
- Alpha
- Charger
- Nova

Apply Cancel

Revenue by Region Chart



Units Ordered

Units Ordered	2007	2008	2009	2010	Total
Nova Gold		402	1,208	899	2,509
Nova Silver		239	855	787	1,881
Nova Bronze		145	494	463	1,102
Nova		786	2,557	2,149	5,492

Sales Success by Product

# Successful Sales	2007	2008	2009	2010	Total
Nova Gold		89	194	170	453
Nova Silver		63	130	154	347
Nova Bronze		55	99	111	265
Nova		105	257	240	602



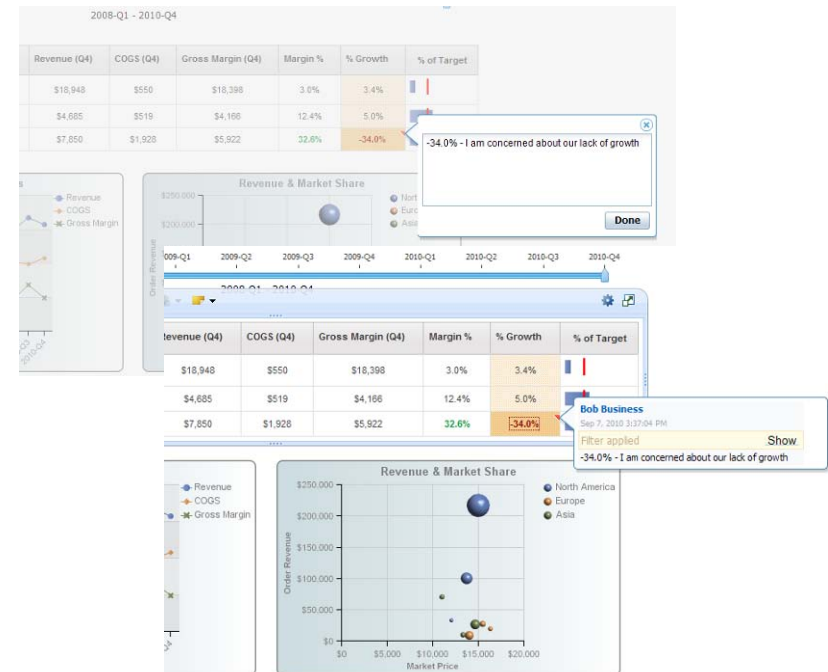
Ensure greater context for decisions

- Add another dimension to the information

Annotations

Solution Highlights:

- Add, view and edit comments on reports, report parts, individual cells or data points in reports and report parts
- Comments are indicated by colored flags
- All annotations are included as endnotes when exporting





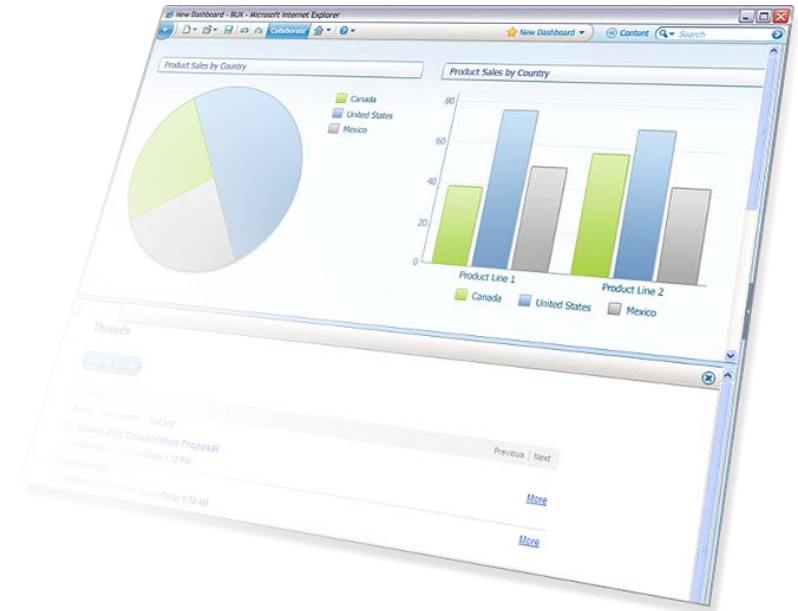
Build a reliable corporate memory

- Easily reference past decisions

Integrated Search

Solution Highlights:

- Search for the following directly from Business Insight:
 - Lotus Connections Activities history
 - Annotations
 - Current Lotus Connections Activities
 - Any related items in Lotus Connections





Easy data inclusion by the business from one value, to entire data sets and external files

Combine external, departmental, and your own data to corporate information resulting in broader perspectives

External Data

Solution Highlights

- Import external data sources into reports or query subjects
- Leverage external data as report filters
- Publish for reuse and update
- Provide IT governance

The screenshots illustrate the 'External Data' configuration process in IBM Cognos Business Insight. The top window shows the 'Select Data' step where an external data file is selected and data items are checked. The middle window shows the 'Data Mapping' step where a new link is created between the external data and an existing report. The bottom window shows the resulting report with a data table and an 'Invertible Objects' pane.

Customer Region	Customer Country	Customer City	CUST_KEY	Customer Lead Type	Customer Name	Customer Micro Segment	Customer Priority	Cust. Segm
North America	Canada	Toronto	100	Standard	Northstar Systems	Mix	C	Medi.
		Toronto	125	Standard	Northstar Systems	Mix	A	Medi.
		Toronto	310	Standard	Northstar Systems	Mix	C	Medi.
		Toronto	200	Standard	Northstar Systems	Mix	B	Medi.
		Toronto	175	Standard	Northstar Systems	Mix	B	Medi.
		Toronto	375	Standard	Northstar Systems	Mix	C	Medi.
		Toronto	325	Standard	Northstar Systems	Mix	C	Medi.
		Toronto	275	Standard	Northstar Systems	Mix	B	Medi.
		Toronto	75	Standard	Northstar Systems	Mix	G	Medi.
		Toronto	150	Standard	Northstar Systems	Mix	A	Medi.
		Toronto	225	Standard	Northstar Systems	Mix	B	Medi.

Revenue Dashboard



Choose Year

2007 2008 2009 2010

2007 - 2010

Choose Product

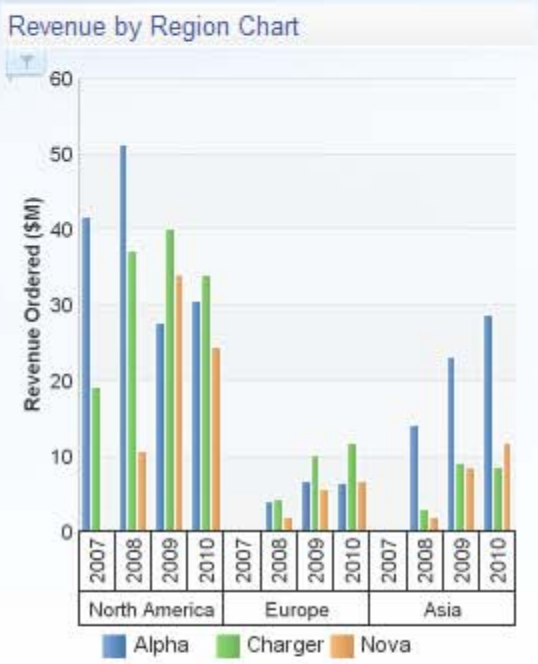
(Select All)

Alpha

Charger

Nova

Apply Cancel



Units Ordered

Units Ordered	2007	2008	2009	2010	Total
Alpha	3,475	6,527	5,762	6,916	22,680
Charger	1,068	2,588	3,547	3,359	10,562
Nova		786	2,557	2,149	5,492
Total	4,543	9,901	11,866	12,424	38,734

Sales Success by Product

# Successful Sales	2007	2008	2009	2010	Total
Alpha	294	487	407	437	1,625
Charger	115	284	361	363	1,123
Nova		105	257	240	602
Total	409	876	1,025	1,040	3,350



Business drivers for disconnected BI consumers

(Executives/front-line workers) are looking to...

Interact with a rich user interface, and easily filter data in dashboards with prompts

Interactivity

Access and work with information without wait times

Performance

Access and interact with dashboard content while disconnected from the network

Disconnected

Access dashboards as attachments in email rather than through a website

Distribution



Offline interactive Dashboard and analysis, delivering very fast, self contained BI to reach more users

Extend the reach of BI and analytics to a broad audience of consumers so they can use interactive reports to uncover new insights and opportunities.

IBM Cognos Active Report

Solution Highlights

- Disconnected reporting application
- Self-contained, interactive content
- Easy to consume
- Mass deployment, Easy consumption
- Performance



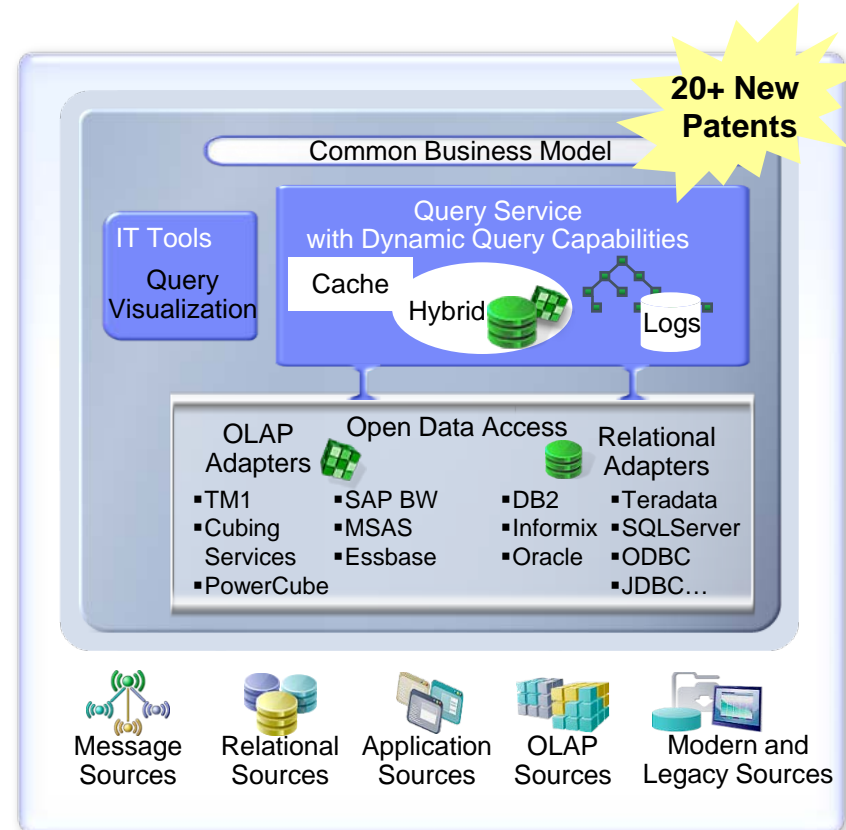


Faster performance with in-memory processing

Deliver optimized access to all data regardless of where it resides

IBM Cognos Platform

- **Solution Highlights**
- Enhanced Query Service with Dynamic Query:
 - 64-bit in-memory optimized query generation with pattern intelligence to improve performance against complex heterogeneous data
 - In-memory calculations and aggregate operations for faster compute time
 - New optimized caching for hierarchies, members, facts, calculations and prompts for improved report performance
 - Initial conformance is for OLAP sources: SAP BW, TM1 and Essbase.



3x faster query

* When compared against IBM Cognos 8 BI software. Based on selective results from tests conducted in the IBM Performance and Scalability Labs on pre-release Cognos 10 software



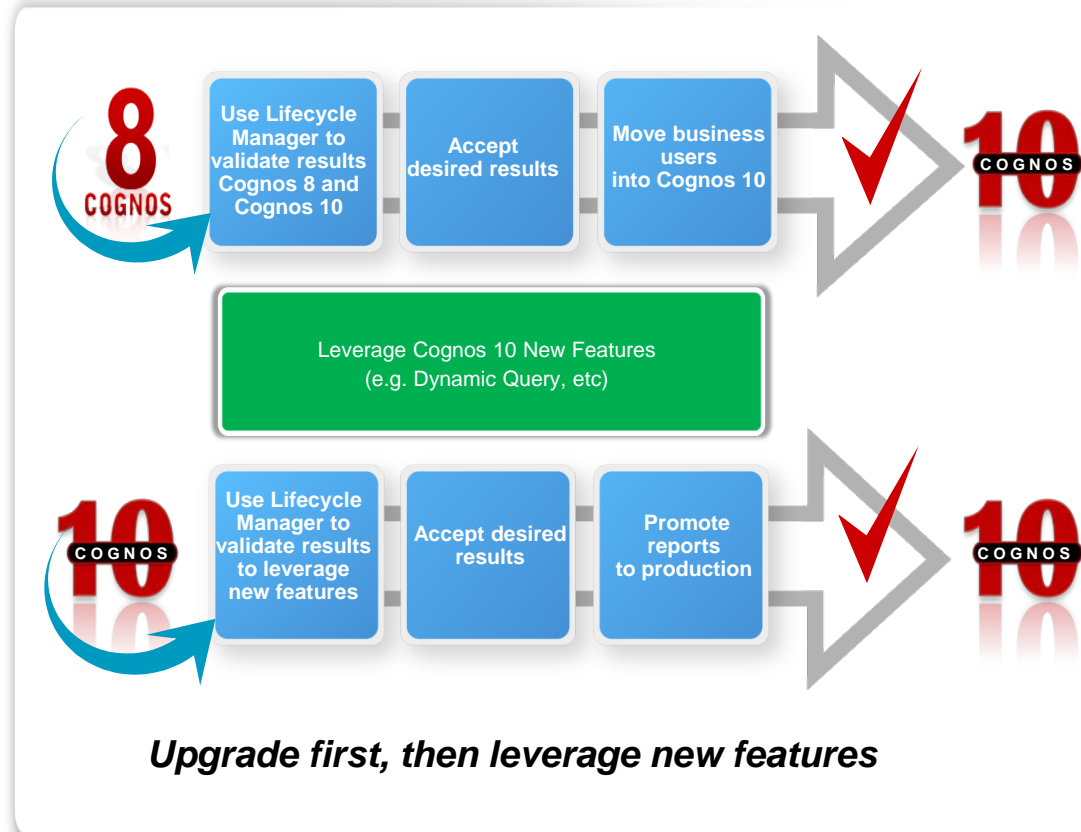


Seamless upgrade and ease of ongoing management

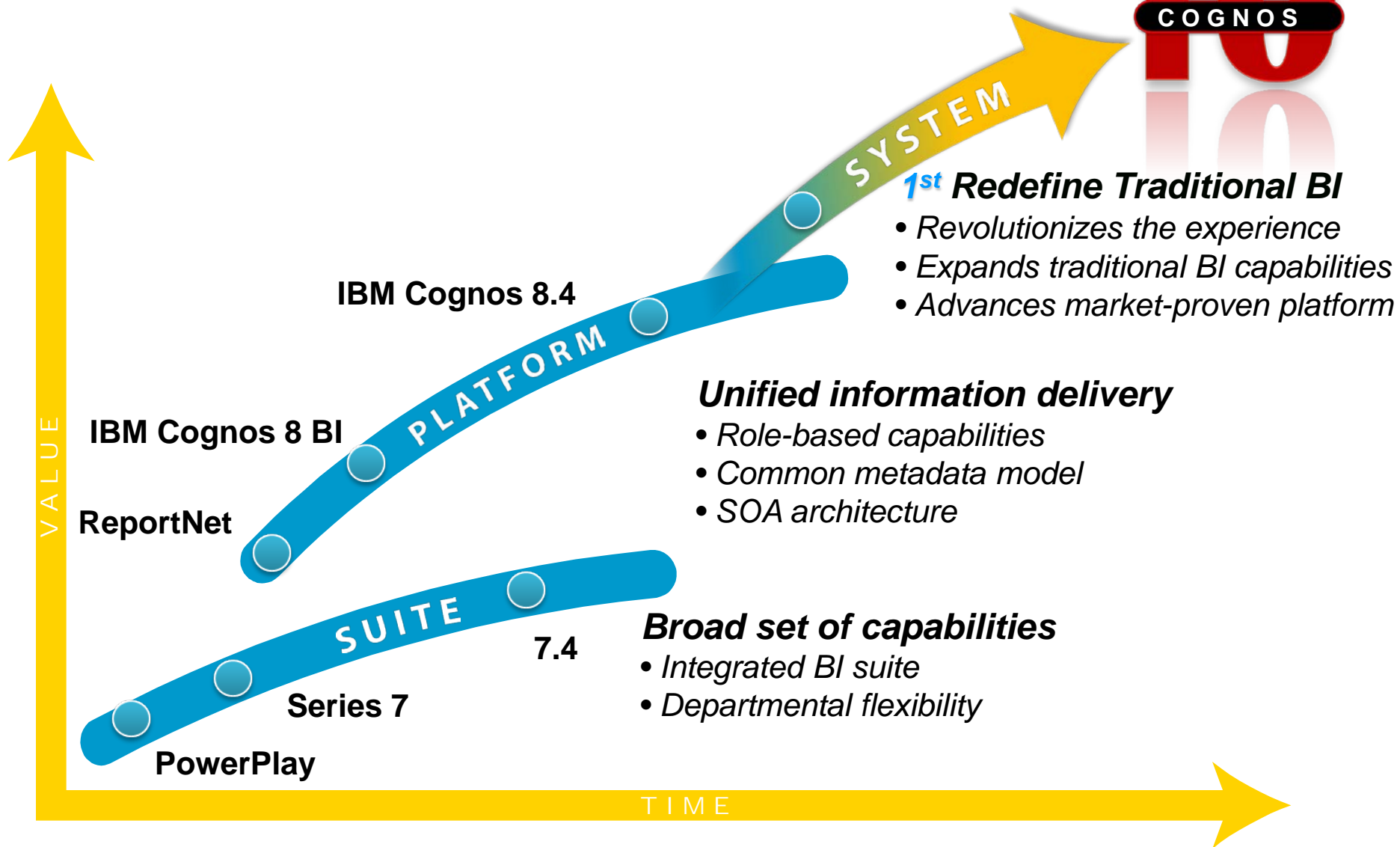
Reduce system management effort and speed time to deploy new functionality to the business community

IBM Cognos Lifecycle Manager

- **Solution Highlights**
- Validate single environment
 - Assess impact of change in operating environment, (e.g. refresh pack, data source changes)
- Compare multiple environments
 - Streamline upgrade process and increase IT efficiency
- Use beyond upgrade to quickly assess impact of any change that could effect BI content



Cognos 10 begins a new series of innovations for Business Analytics



Cognos 10: Intelligence Unleashed

Smarter Decisions. Better Results.



Meet the needs of an evolving workforce

Step up team decision making

Accelerate business impact



Forrester Wave Q4 2010 Chart for BI Offerings

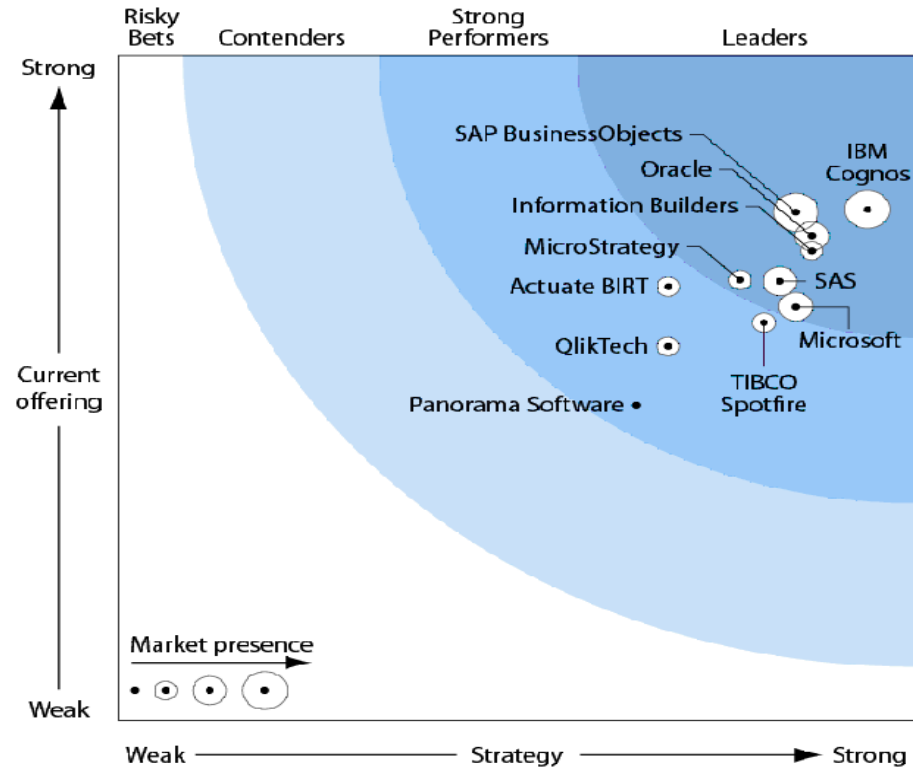


Highlights

IBM is now the clear market leader in Current Offering and Strategy, having jumped ahead of SAP Business Objects.

IBM is now only vendor to be recognized as the leader in Strategy/Vision in both the ForresterWave for Enterprise BI and the Gartner Magic Quadrant for BI Platforms.

IBM leads the scoring in Current Offering, Architecture, Strategy, Product Direction (only vendor to receive a 5.00), Global Presence, Partner Ecosystem, and Functional Applications.



Gartner – For Predictive Analytics



Performance Management Platform of Choice



Insurance

- 9 of the world's top 10 Insurance companies
- 9 of the world's top 10 Property & Casualty companies
- 8 of the world's top 10 Life & Annuities companies
- 6 of the world's top 10 Reinsurers
- 7 of the world's top 10 Insurance brokers

Banking

- 10 of the top 10 US Banks
- 9 of the top 10 European Banks
- 6 of the top 10 Asian banks
- All top 10 Investment Banks



Manufacturing

- 9 of the top 10 High Tech companies
- 19 of the top 20 Consumer Goods companies
- Implemented by the Top 10 Automakers
- 5 of the top 7 global Oil & Gas companies

Performance Management Platform of Choice

Telecom

- 4 of the world's 5 largest Telecommunications companies



Life Sciences

- 25 of the top 30 Pharmaceutical Companies use Cognos BI
- 17 of the To 25 Pharmaceutical Companies use Cognos Enterprise Planning



Retail

- 25% of Top 250 Global Chains
- 36% of Top 100 Retailers
- 16% of Top 75 Food & Drug
- 17% of Top 100 Restaurants



Strong Customer Base in India: a sampling



The image displays a wide array of logos for prominent Indian companies, organized in a grid-like fashion. The logos include:

- Insurance:** Canara HSBC Life Insurance, HDFC Standard Life Insurance, MetLife, TATA AIG Insurance, Kotak Life Insurance, L&T Insurance, and HSBC.
- Banking:** State Bank of India and Ashok Leyland.
- Technology & IT:** UltraTech, TATA Consultancy Services, and Indus Towers.
- Manufacturing & Industry:** Asian Paints, EsSEL Propack, DLF, Apollo Tyres Ltd., Tupperware, Greaves, and Diageo.
- Pharmaceuticals & Healthcare:** Novartis, LAFARGE CEMENT India, TATA TEA, and Sanofi Aventis.
- Consumer Goods & Retail:** ITC Limited, Crompton Greaves, Hyundai, CEAT, Whirlpool, BILT, Nestle, Marico, Rosyblue, UST Global, Pantaloon, Kellogg's, and Patni.
- Engineering & Infrastructure:** Larsen & Toubro, Shapoorji Pallonji & Co Ltd, and ELGI.
- Other:** Henkel, Saraswat Bank, ICICI Prudential Asset Management, TATA Indicom, and Indo-Fil.

Thank You