



Intelligent Information Integration

Wolfgang Nimführ Information Management IBM Software Group Austria *Wolfgang.Nimfuehr@at.ibm.com*



Data Explosion In A Smarter World

New Data For New Information For a Smarter Planet

Volume of Digital Data

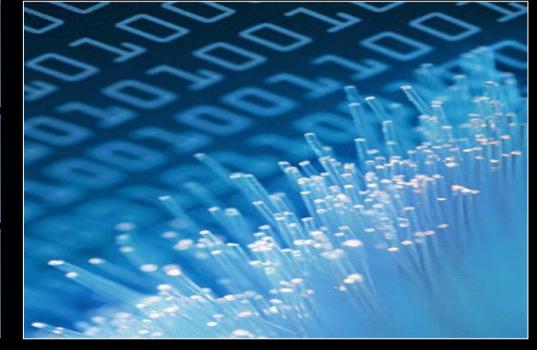
- 57% CAGR for enterprise data through 2010¹
- Machine generated data : Sensors, RFID, GPS..

Variety of Information

- 80% of new data growth is unstructured content¹
- Emails, images, audio, video..

Velocity of Decision Making

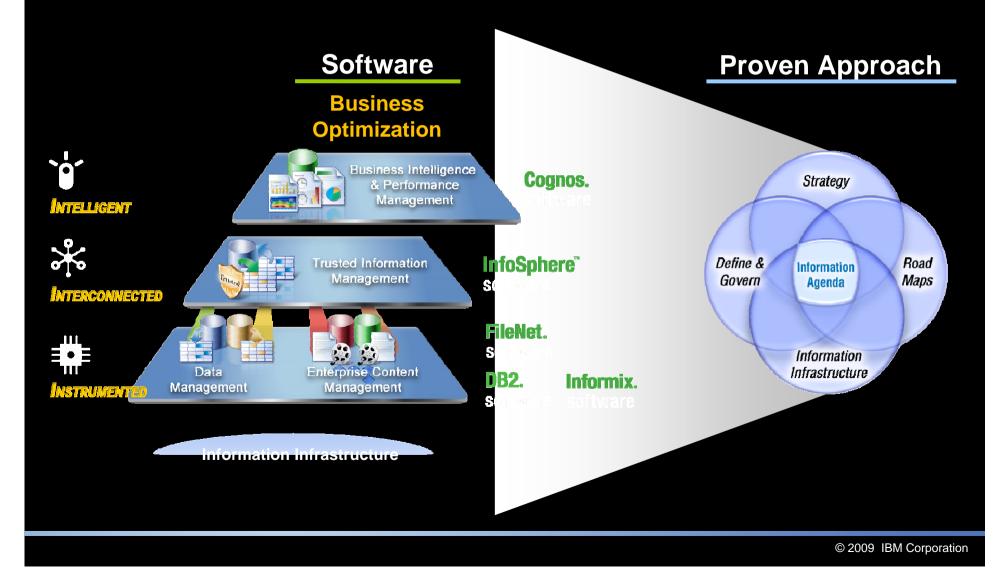
- Rapidly changing business climate
- Need to get ahead of the curve : predict issues and fix them





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Leverage Information For Smarter Business Outcomes: How To Get Started!

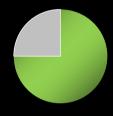




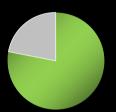
Data Management

IBM

Data Management Must Drive Competitive Advantage Survey: CIO's want to strengthen competitive advantage by better managing enterprise data



75% of CIO's believe they can strengthen their competitive advantage by better using and managing enterprise data.



78% of CIO's want to improve the way they use and manage their data.



...but **only 15%** believe that their data is currently comprehensively well managed.

Data management must drive competitive advantage

- Tailor application data models to support differentiable business processes
- Service-enable data assets for business process agility
- Empower teams to collaborate seamlessly, improve productivity from design to delivery to management

Source: Accenture CIO Data Management Survey 2007. n=167 CIOs



Data Management Manage data over its lifecycle





Integrated Data Management – What's Different?

Produce enterprise-ready applications faster

- Improve data access, speed iterative testing
- Empower collaboration between architects, developers & DBAs

Consistently achieve service level targets

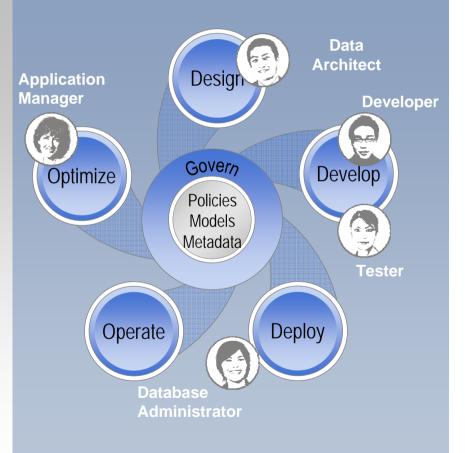
- Automate and simplify operations
- Provide contextual intelligence across the solution stack

Support business growth

- Accommodate new initiatives without expanding infrastructure
- Simplify application upgrades, consolidation & retirement

Facilitate alignment, consistency & governance

 Define business policies and standards up front; share, extend, and apply throughout the lifecycle.





Integrated Data Management Today - Powerful Capabilities

Optim Solutions for Data Growth, Data Privacy and Test Data Management

- Improve performance, control costs, reduce risks
- Control data growth, streamline test data management, mask confidential data, manage data retention and destruction
- Speed application upgrades, enable safe application retirement

InfoSphere Data Architect

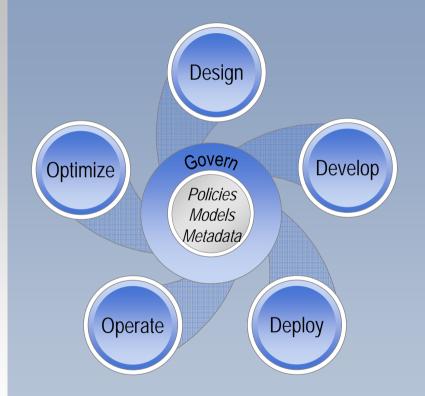
 Collaborative data design to improve data quality and enterprise consistency

Optim Development Studio and pureQuery Runtime

 Enhance productivity up to 50% while improving code quality and providing expert-equivalent performance for Java data access

Optim Studio Administrator, Performance Expert, Encryption Expert, ...

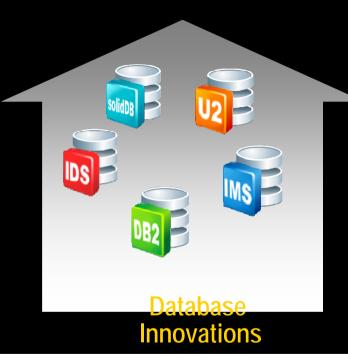
Administration and security management tools





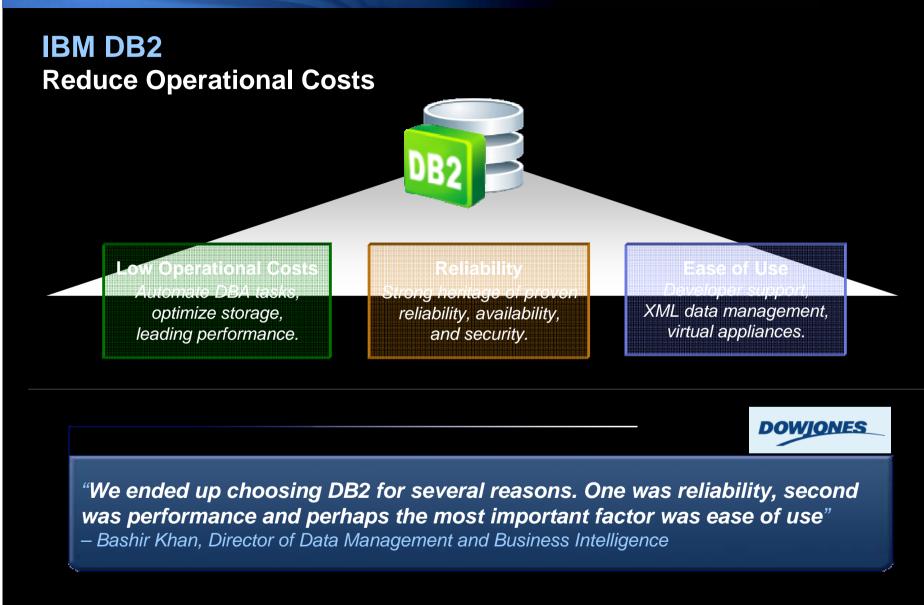
Integrated Data Management & Databases





Manage enterprise application data, from requirements to retirement Create business value your data faster and at lower cost

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IBM

Top Performance For SAP

DB2 is Optimized for SAP

- Average 40% better performance
- World record SAP benchmark, outperforming Oracle Database by 18% and needing only half the processing power!

Lower Cost with DB2

- Average 40% Storage Savings
- Average 25% DBA Labor Savings

33% Growth in SAP clients choosing DB2 since 2006

SAP

>100 clients migrated from Oracle to IBM in past 12 months

"We expected an improvement of around 20% in terms of system response time, but we found that the new system was actually 40% faster. The DB2 database is even more efficient than we anticipated." —Peter Boegler, SAP



SunTrust Saves \$2M With Compression



"We're seeing compression rates up to 83% on the data warehouse tables. The projected cost savings are more than \$2million initially with ongoing savings of \$500,000 a year" —*Michael Henson, SunTrust Bank, Inc.*

Lower storage costs

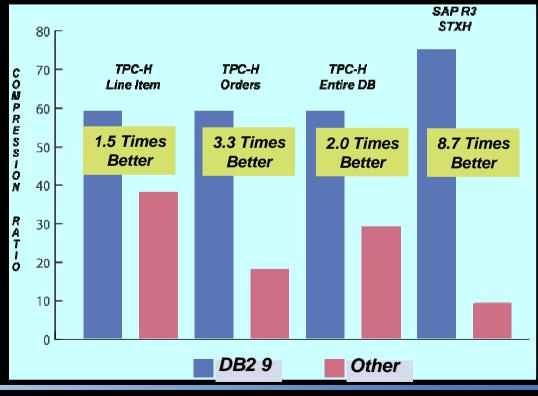
 Save 30% on storage costs compared to Oracle Database

Improve performance

 Increase buffer pool hit ratios and decrease I/O

Speed backup and recovery

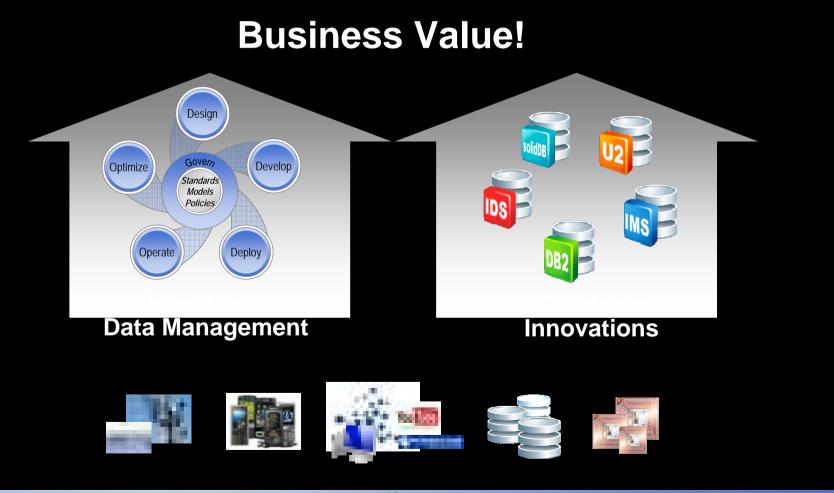
 Less storage means faster backup and recovery





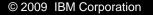
IBM Data Management Software

Greater business value from your data faster and at lower cost





Enterprise Content Management



What is Needed? Evolving from traditional ECM to Agile ECM

Traditional ECM

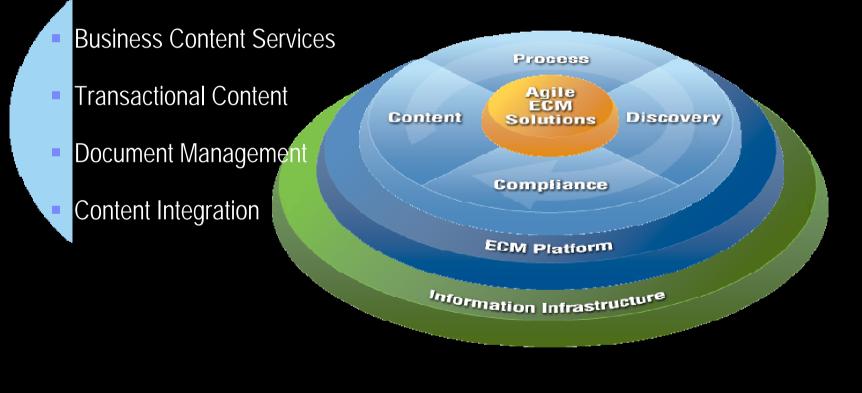
- Information locked in siloed repositoryspecific applications
- Unfriendly / difficult / proprietary user experiences
- Many specialized ECM products, little/no integration between them
- ECM investments and solutions limite the scope of content management
- Difficult, complex and protracted comp implementations
- Lengthy development and deployment cycles
- Content passively stored in repositories
- Business processes maintained by IT almost exclusively

Agile ECM

- Standards-based and open repositories and services that span multiple application and content types
- Familiar, easy-to-use frameworks, attractive and flexible experiences for any business user
- Active content brings content to life in critical business processes
- Powerful tools to derive intelligence from content for valued business use
- Business value delivered rapidly in days instead of months
- Collaborative tooling empowers business users as process stake holders
- Support for a proactive and prescriptive compliant information management strategy



Agile ECM: Content Management

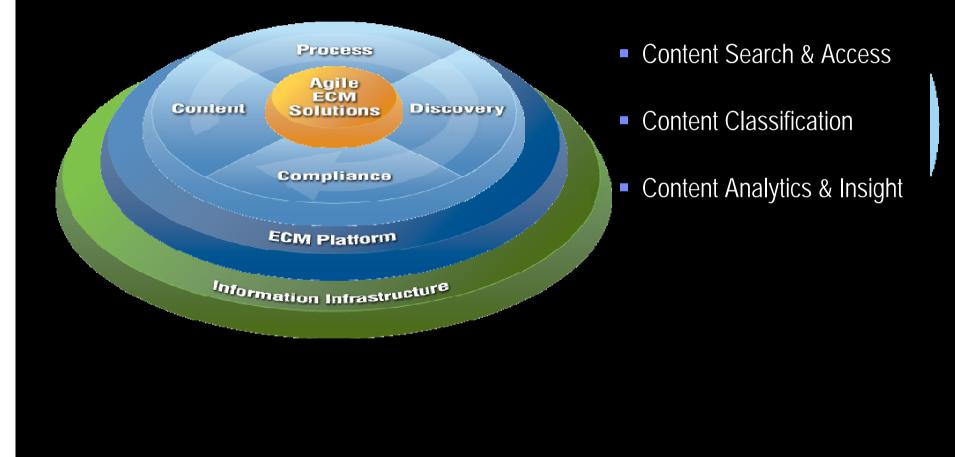




Agile ECM: Content-centric BPM Design Monitor Execute Optimize Simulate Process Agile ECM Solutions Content Discovery Compliance ECM Platform Information Infrastructure

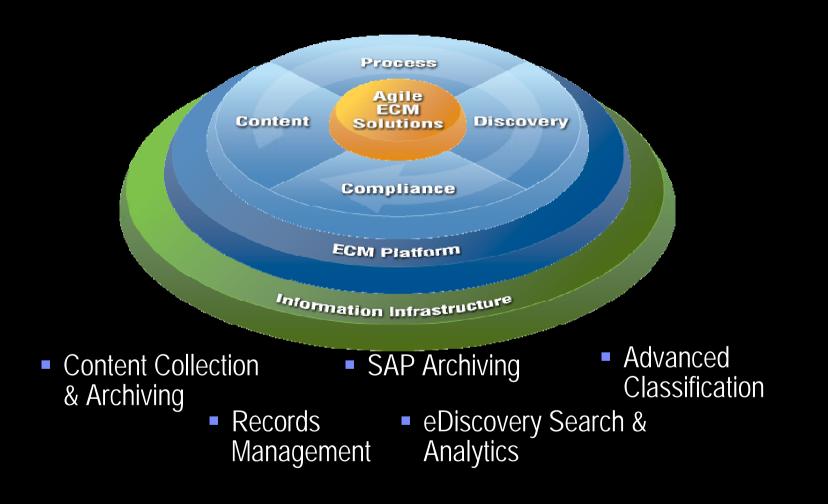


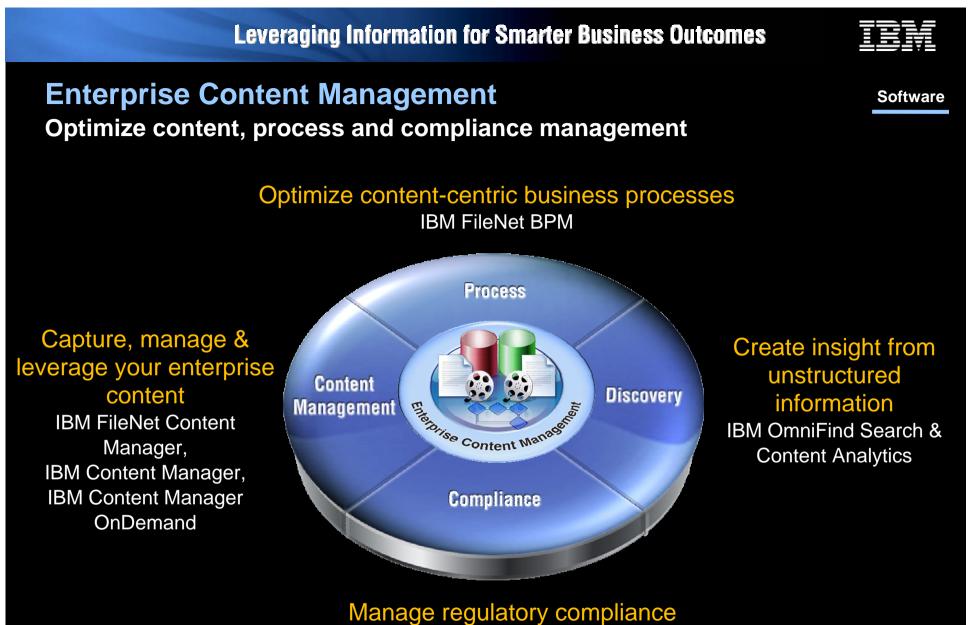
Agile ECM: Information Access & Discovery





Agile ECM: Compliance & eDiscovery





IBM Content Collection & Archiving, IBM Classification Module, IBM Records Management, IBM eDiscovery Search & Analytics



Enterprise Content Management

Optimize content, process and compliance management

Capabilities

- Eliminate paper-based, manual processes
- Automate content-centric processes to reduce processing lead times and errors
- Address compliance needs through an integrated content solution
- Increase business agility with greater control over enterprise content

Business Value

- Reduce costs associated with paper records
- Increase productivity of employees in sales, billing, HR and scheduling by automating manual processes and reducing errors and exceptions
- Reduce risk by addressing information storage, auditability and retrieval needs from regulations





Trusted Information Management

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Key Challenge is Unlocking the Value of Information

Information Volume Business Enterprise Silos & Variety Velocity Alignment

Draft Application Designan V4: Page 1 of a

52% of users don't have confidence in their information¹



42% of managers use wrong information at least once a week²

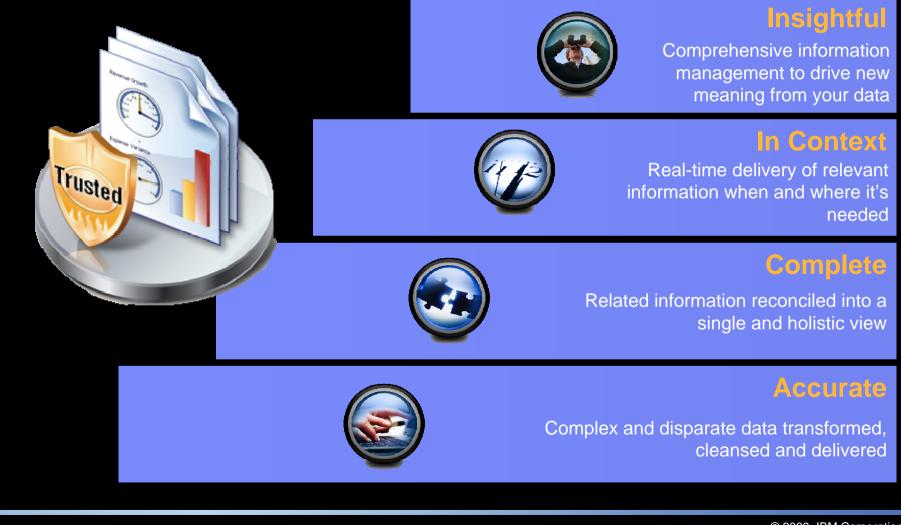
> ¹AIIM 2008 Survey ²Accenture 2007 Managers Survey





Leaders Investing to Optimize Information Assets

Clients Tell Us What They Are Looking For ...





The Value of Trusted Information

- 27x increase in speed to market
- 50% reduction in application development costs
- 45% increase in productivity, and 18 month ROI
- 10% improvement in on-time deliveries
- 2%-12% improvement in direct mail response

Trusted Information

IBM Customer Studies - 2009



Trusted Information Across The Enterprise

A Range Of Capabilities Are Needed

Get a single view of your business ... with Trusted Information Delivered with IBM InfoSphere Master Data Management

Discover, design and govern your data ... for Trusted Information

Delivered with IBM InfoSphere Foundation Tools, IBM Industry Models

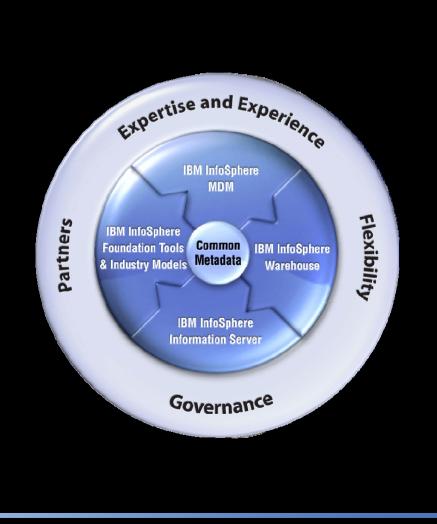


Consolidate your application infrastructure ... with Trusted Information Delivered with IBM InfoSphere Information Server

The InfoSphere Vision

An Industry Unique Information Platform

- Simplify the delivery of Trusted Information
- Accelerate client value
- Promote collaboration
- Mitigate risk
- Reduce costs
- Modular but integrated
- Scalable from project to enterprise
- ➔ Align Business & IT
- Reduce Costs
- ➔ Accelerate Value







Expertise and Experience

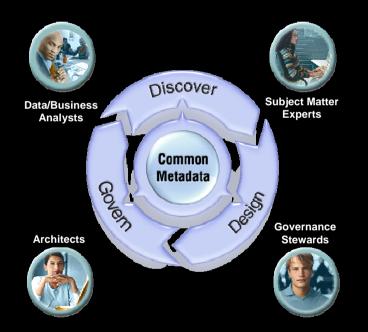
Governance

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InfoSphere Foundation Tools

Discover, design and govern your data ... for Trusted Information

- Enhance Business & IT Collaboration
 - Create, manage, and share an enterprise vocabulary
- Discover, understand and map your data
 - Gain a true understanding of your data sources
- Govern your information over time
 - Ensure information stays trusted, across the enterprise



The complete capabilities to establish your Information Agenda



InfoSphere Foundation Tools



The Facts:

 Increased statistical accuracy of research through a four-fold increase in sample sizes

Bottom line:

- Won 17 million AUD in project grants
- Won 2.2 million AUD in research grants





InfoSphere Industry Models

InfoSphere Foundation Tools



Design your industry data structure and processes ... for Trusted Information

- Business & IT Collaboration
 - Complete business templates provide industry content and KPIs
 - Key accelerators for business optimization & integration projects
- Integrated with information infrastructure
 - Accelerates Information Server & Cognos 8 BI

(Banking data warehouse)	Financial markets (Financial markets data warehouse)	(Health plan (Health plan data warehouse)
 Profitability Relationship marketing Risk management Asset and liability management Compliance 	Risk management Asset and liability management Compliance	 Claims Medical management Provider and network Sales, marketing and membership Financials
(Insurance information warehouse)	(Retail data warehouse)	(Telecommunications data warehouse)
Customer centricity Claims Intermediary performance Compliance Risk management	 Customer centricity Merchandising management Store operations and product management Supply chain management Compliance 	 Churn management Relationship management and segmentation Sales and marketing Service quality and product lifecycle Usage profile

IBM Industry Models

Industry expertise and best practices



Expertise and Experience

Governance

Foundation Te

InfoSphere Industry Models

InfoSphere Foundation Tools

The Facts:

 Leveraged reusable information and business processes to shorten development time and minimize errors

Bottom line:

- Reduced administrative and development costs
- Accelerated decisions to be more competitive in 12 countries



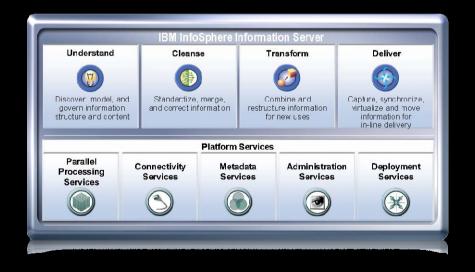
"IBM IAA makes business users—such as underwriters and analysts—more efficient. It only takes a day to train the average business worker to navigate through IBM IAA to understand their own data and process requirements. This is a superb development, because it means that our lines of business can communicate more effectively with IT—which in turn can create and provision business solutions far faster than before."

> – Shannon Murphy, Chief Technology Officer, ING Insurance Asia Pacific

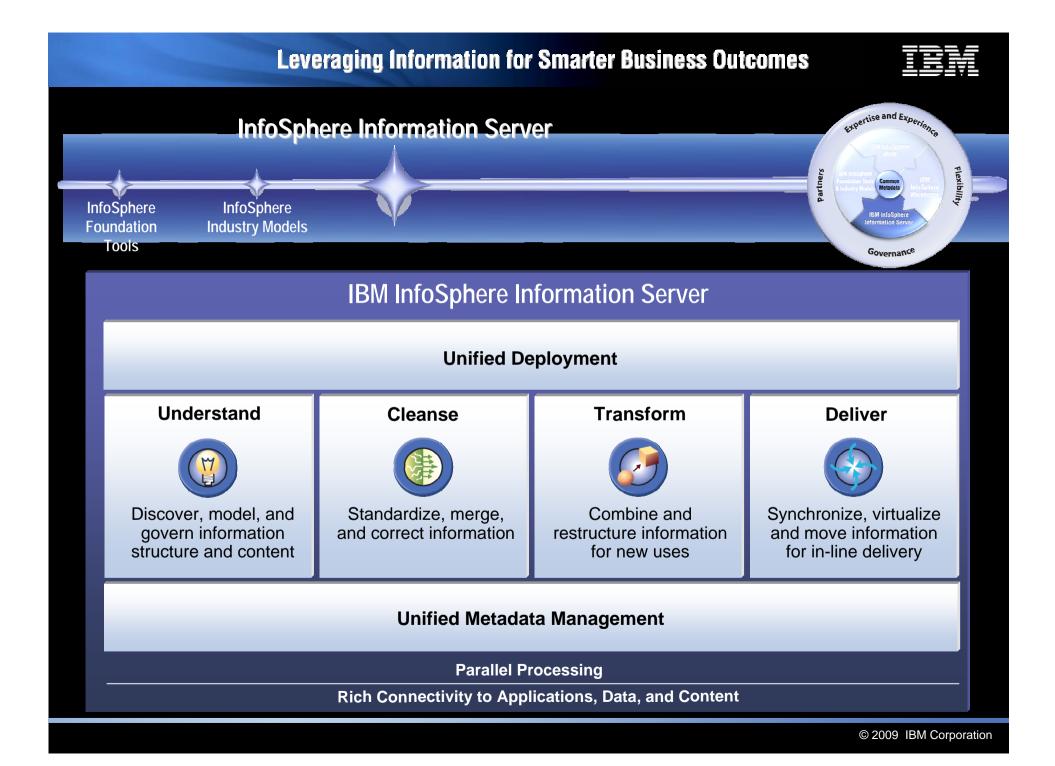


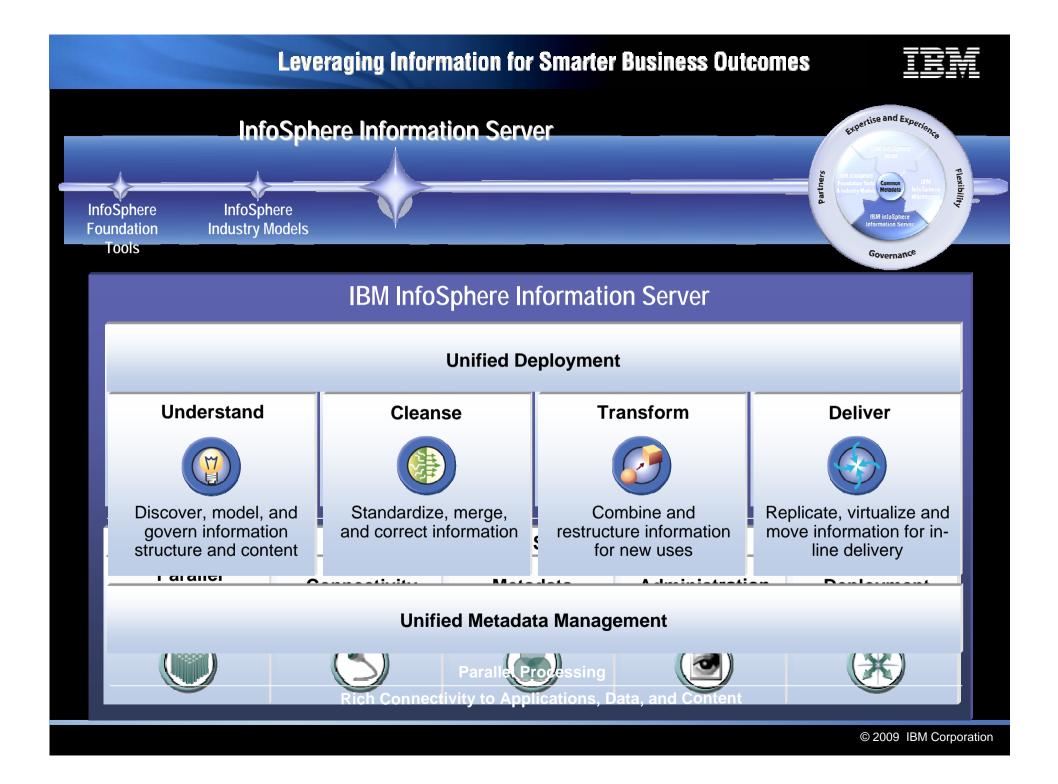
Consolidate your application infrastructure ... with Trusted Information

- Accelerate data integration projects
 - Metadata-driven design
 - Business IT alignment
- Leverage Existing Resources
 - Broad native connectivity
- Architected for Growth
 - Massive scalability
 - Parallel processing

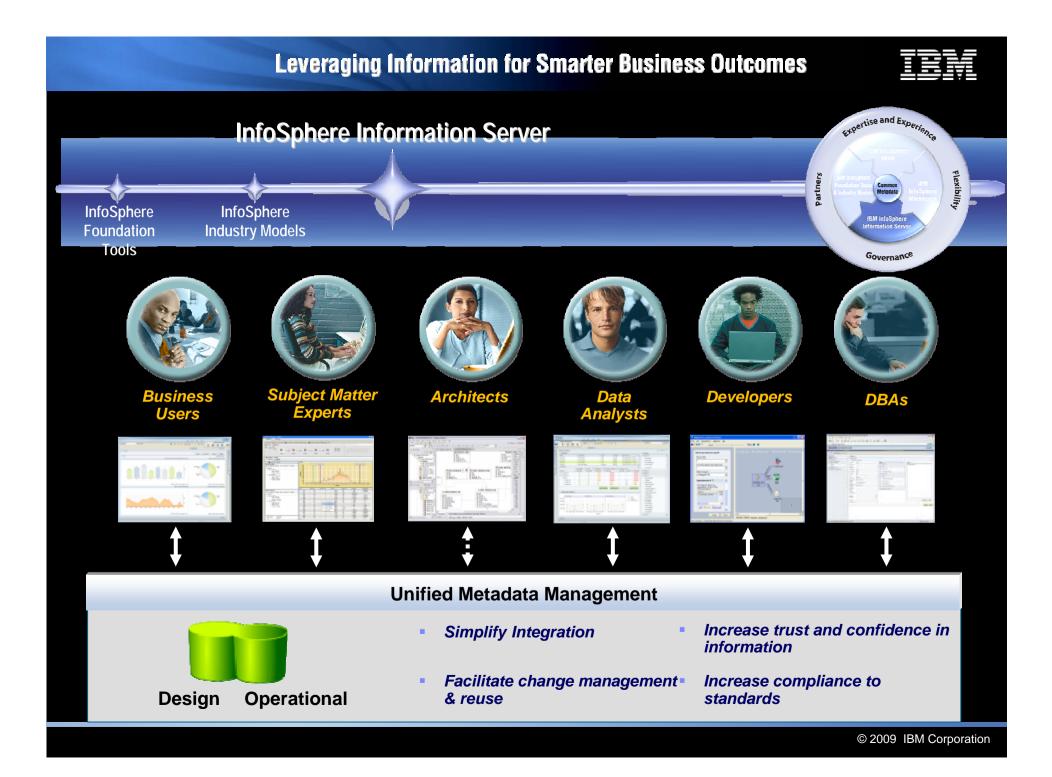


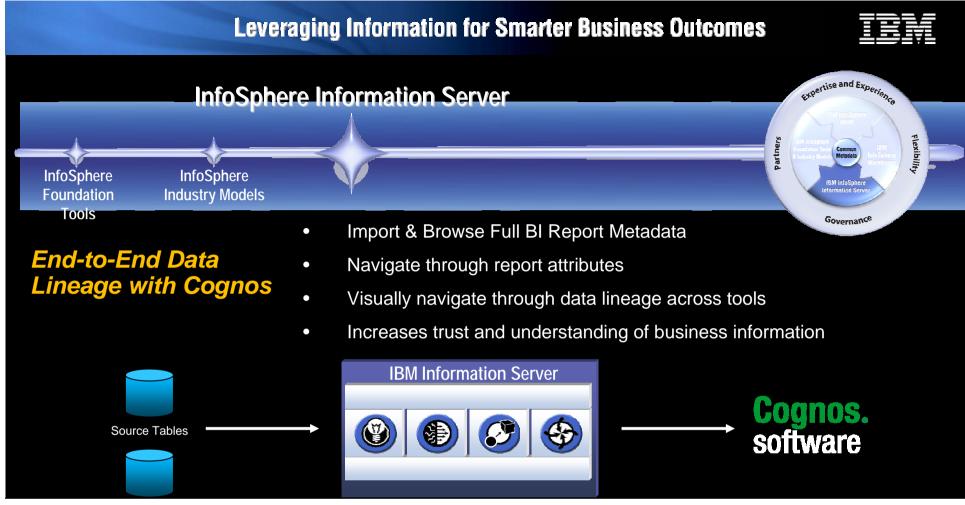
Full range of capabilities to make information Trusted across heterogeneous systems



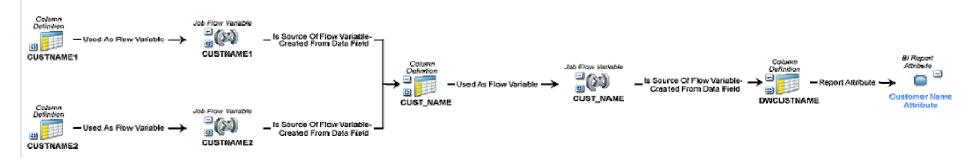


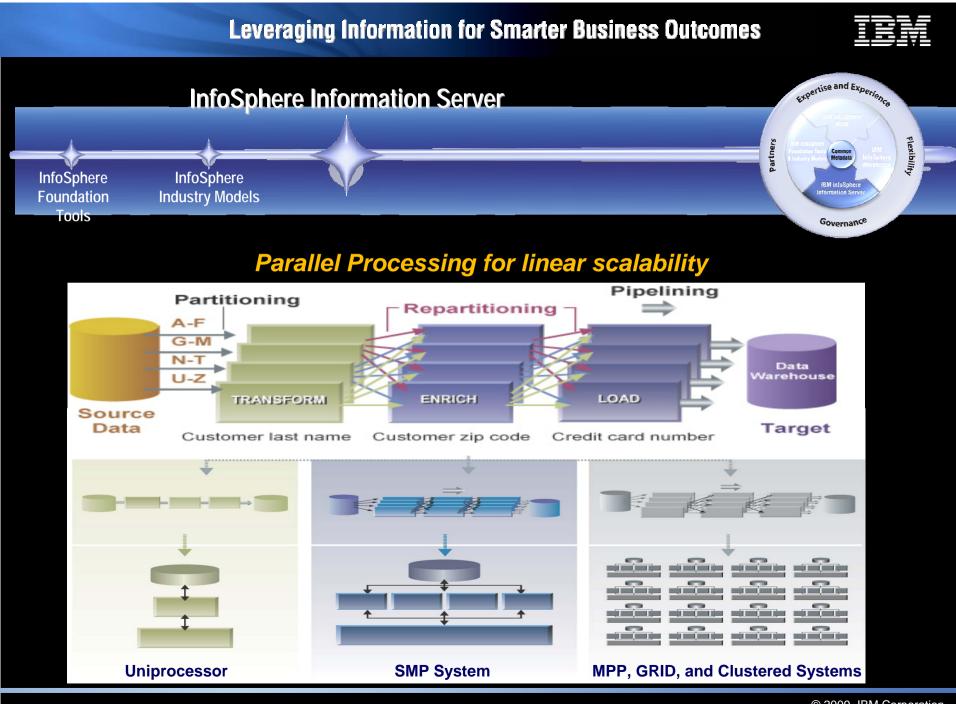






Data Movement for: Customer Name Attribute







The Facts:

- **45% increase** in workforce productivity
- 18 month ROI

Bottom line:

- Project live in only 9 months
- Information modeling reduced from 2 ¹/₂ months to 2 weeks





IBM Information Server Blade: Quickly, easily and with a great ROI!



Deeply optimized by IBM experts Flexible growth to meet changing business needs

A Simplified Grid Development!

- ☑ IBM HS21 BladeCenter
- ☑ Red Hat Linux 4
- ☑ DataStage and QualityStage Pre-loaded,
- pre- configured, tested and

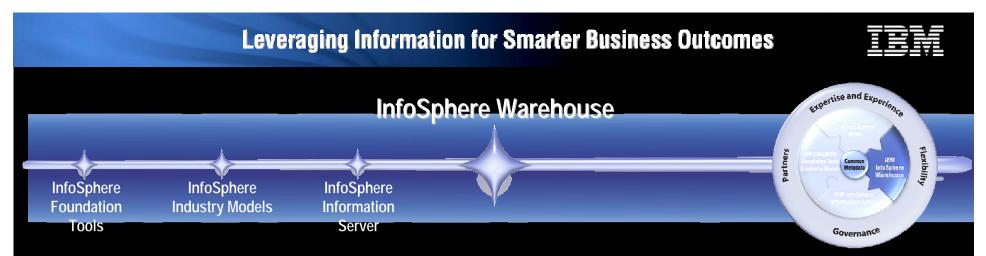
optimized

☐ Parallel engine infrastructure and Metadata Grid Infrastructure Software (resource management):

☑ Tivoli Workload Schedule LoadLeveler

Completely expandable in single blade increments

- ☑ Can run additional operating systems
- ☑ Can run additional applications

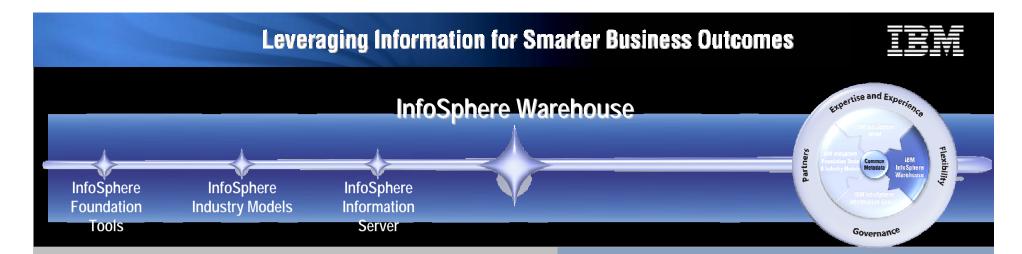


Deliver better business intelligence faster ... with Trusted Information

- Combining software, hardware and services, IBM expands warehousing offerings with new IBM Smart Analytics System
- Unified, powerful data warehouse foundation
 - Advanced partitioning, data mining, retention & cubing features
- Flexible environment
 - Optimized performance for operational & transactional use
 - As big or as small as your business needs



Powerful, real time analytics for both structured and unstructured information



The Facts:

- 10,000 to 15,000 queries per day
- 15 trillion rows read from warehouse. each week

Bottom line:

- Query times reduced from days and weeks to less than 3 minutes
- Warehouse has grown from 2.5 TB to 24 TB with zero impact on performance

INGENIX





IBM Smart Analytics System: Delivering results in days instead of months!

Deeply optimized by IBM experts

Flexible growth to meet changing business needs

Analytics Software Options

- Business Intelligence capabilities
- ☑ Cubing Services
- ☑ Text Analytics & Data Mining

Powerful Data Warehouse

- ☑ Warehousing Platform
- Advanced Workload Management
- ☑ System Automation

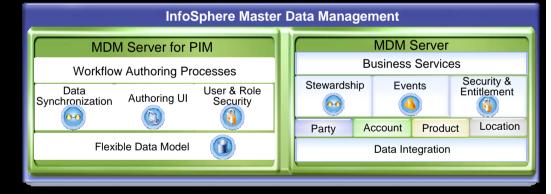
Hardware & Services

- ☑ Server Platform
- ☑ Storage capacity
- Build, Deploy, Health Check & Premium Support Services



Get a single view of your business ... with Trusted Information

- Meets Business Needs
 - Addresses multiple data domains – customer, product, location
 - Functionality across the full spectrum of use cases
- Flexible Deployment
 - MDM functionality supported with User Interfaces, Workflow, Business Services
 - Scales as MDM needs evolve



Providing end-to-end master data management



The Facts:

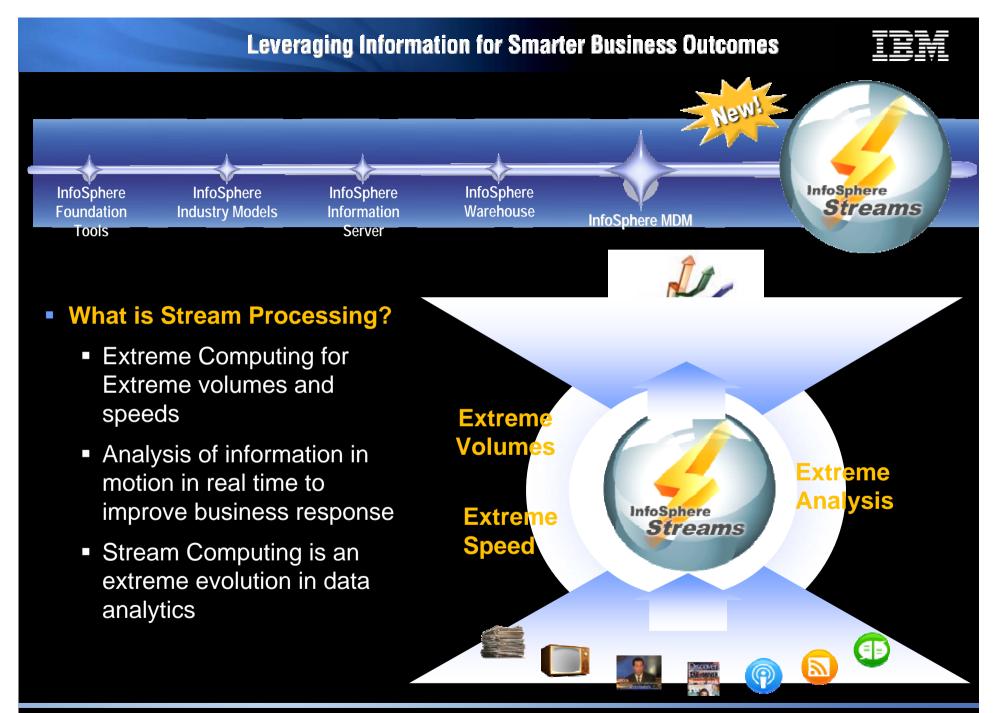
- Create and maintain product information 10% faster
- Data entry errors reduced from 5% to 0.1%

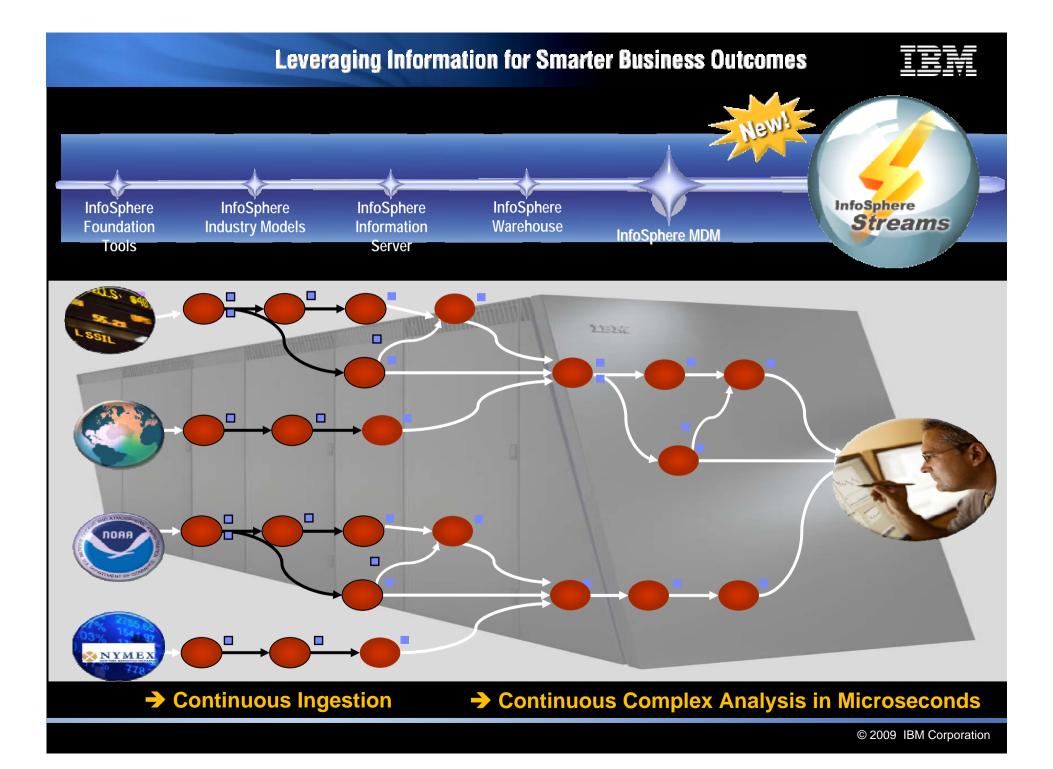
Bottom line:

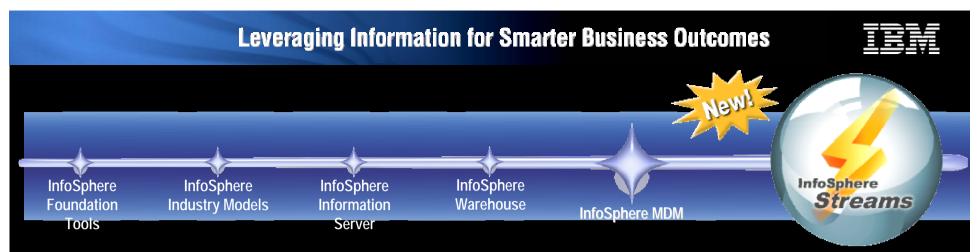
- Anticipated operational savings of €5 million annually
- Partners reduce costs by 25%
- Two additional weeks of sales for new 3.5% increase

Panasonic









Law Enforcement and Security

Detect & respond to illicit activity based on analysis of large volumes of structured and unstructured information



Healthcare – Neonatal ICU

Correlate information from multiple monitors to detect illnesses 6 to 24 hours earlier



Trading Advantage

Sub-millisecond identification of and response to opportunities in real-time market data



Radar Astronomy/Satellites

Correlate Satellite information to monitor radio sky for pulsars or to detect transient information such as cosmic ray showers



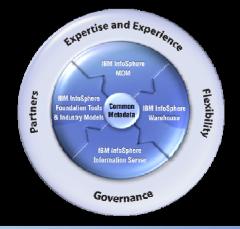
Leveraging Information for Smarter Business Outcomes



The Value of Synergy - You Have a Choice... Point Products







The Bottom Line

Platform synergy has delivered over 50% reduction in project deployment times

Unified Platform Benefits:

Decreased risk by	53%
Improved business alignment by	83%
Improve time to value by	75%
Reduce project staffing by	90%

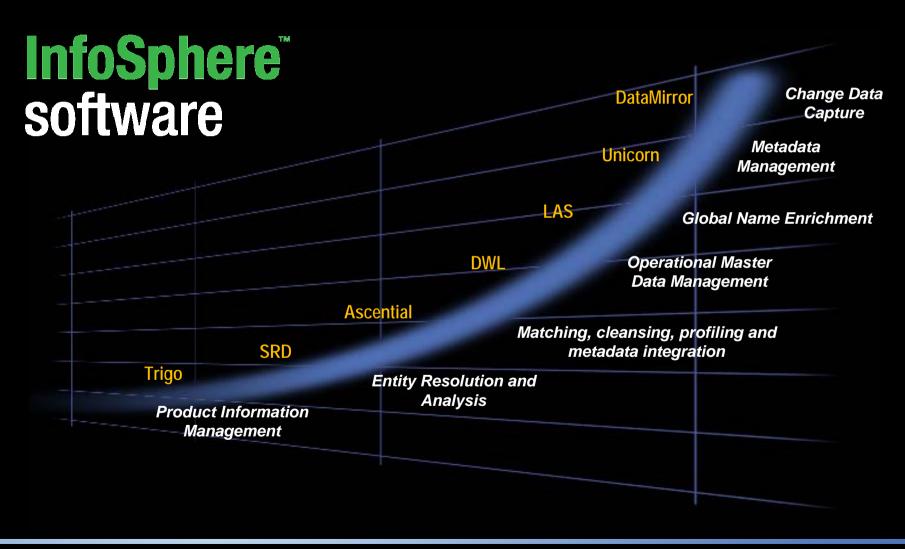


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IBM Customer Studies - 2009



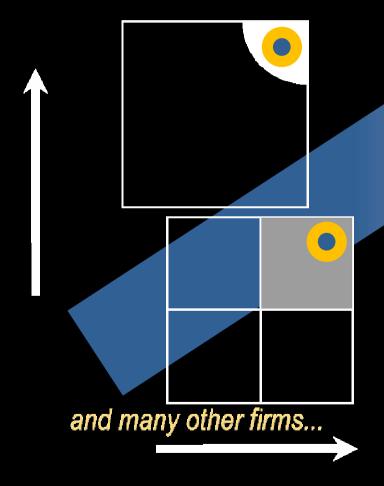
The InfoSphere Software Evolution



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No Compromises

Industry Analysts Rank IBM as Leaders...



ETL Tools

- Business Intelligence Platforms
- Data Warehousing
- Data Quality Tools
- Data Integration Tools
- Customer Data Integration



- The InfoSphere portfolio addresses the majority of requirements companies face in managing their information
- There is no more integrated portfolio on the market
- IBM has the only portfolio which also leads in each and every category
- IBM invests \$1B each year on this portfolio and its integration
- By choosing a more complete InfoSphere solution, organizations can reduce their risk & improve time to value and ROI

Leading The Market In Innovation

Accelerate Value Total Flexibility Align and Simplify

