Turning Opportunity into Outcomes.



From Operational Data to Trusted Big Data

IBM Information Governance Platform

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Information you can trust is everywhere.... But context matters!





- 1) Why are we here?
- 2 The Information Supply Chain

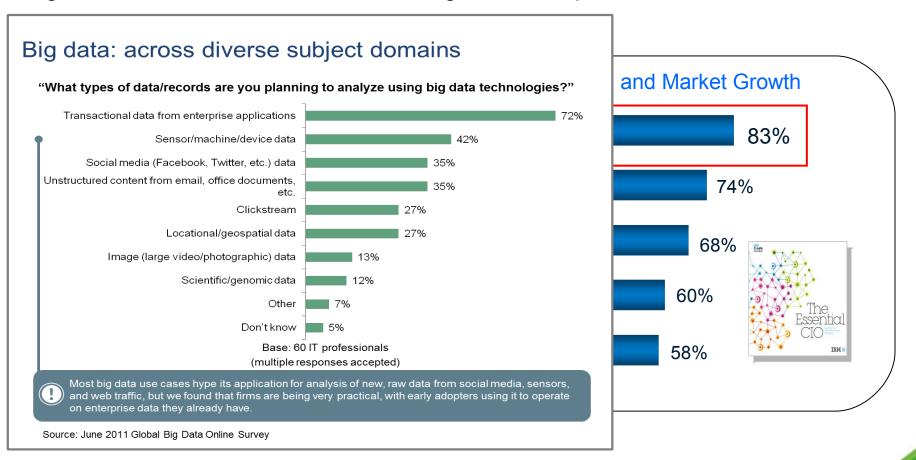
3 Talking about Business Value...

4 Trick or Treat!

Why Are We Here?



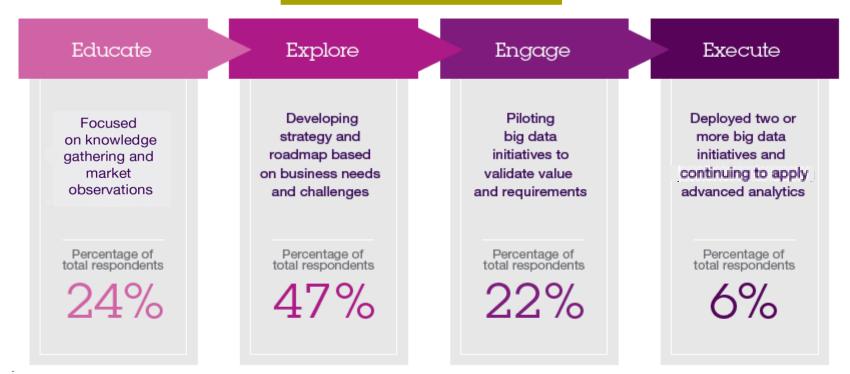
Big Data is HOT, and Information Management is top of mind for clients...



A recent Institute for Business Value study highlights how organizations are adopting big data in four phases



Big data adoption



When segmented into four groups based on current levels of big data activity, respondents showed significant consistency in organizational behaviors

Total respondents n = 1061

Totals do not equal 100% due to rounding

"Data is the new Oil"



In its raw form, oil has little value. Once processed and refined, it helps power the world.



thenewfederalist.eu

Webzine of the Young European Federalists

FINANCIAL TIMES

Home page > Current Affairs > Neelie Kroes: Information is the new oil!

Neelie Kroes: Information is the new oil!

easingly, businesses are applying tics to social media such as book and Twitter, as well as to act review websites, to try to

Interview of the European Commissioner for the Digital Ag

Wednesday 4 January 2012, by Laurent Nicolas

"Companies are being inundated with data—from information on customer-buying habits to supply-chain efficiency. But many managers struggle to make sense of the numbers."



"...now V digesting research, clinical proutcomes treating c

If data is the new oil, we need a bigger drill

Posted on April 15, 2010 by Simon Kendrick





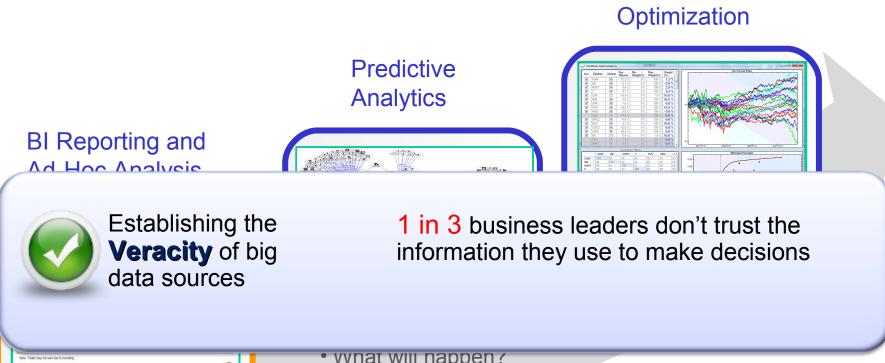
"Data is the new oil."
Clive Humby



IBM delivers a governable, consumable Big Data platform that's steeped in analytics for data inmotion and data at-rest.

Every organization is on an analytics journey





- What happened?
- When and where?
- How much?

- vvnat wiii nappen?
- What will the impact be?

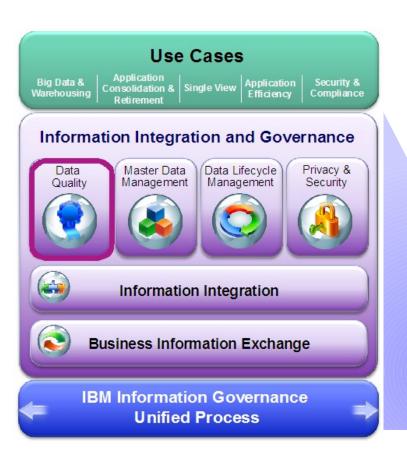
Cost efficiently processing the growing Volume

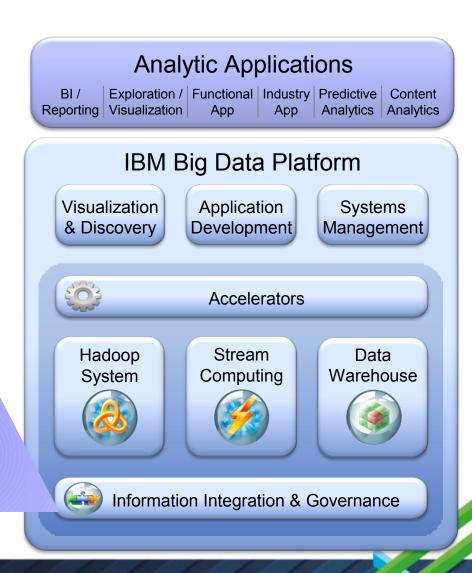
Responding to the increasing **Velocity**

Collectively analyzing the broadening Variety

InfoSphere creates trusted information for use in key initiatives

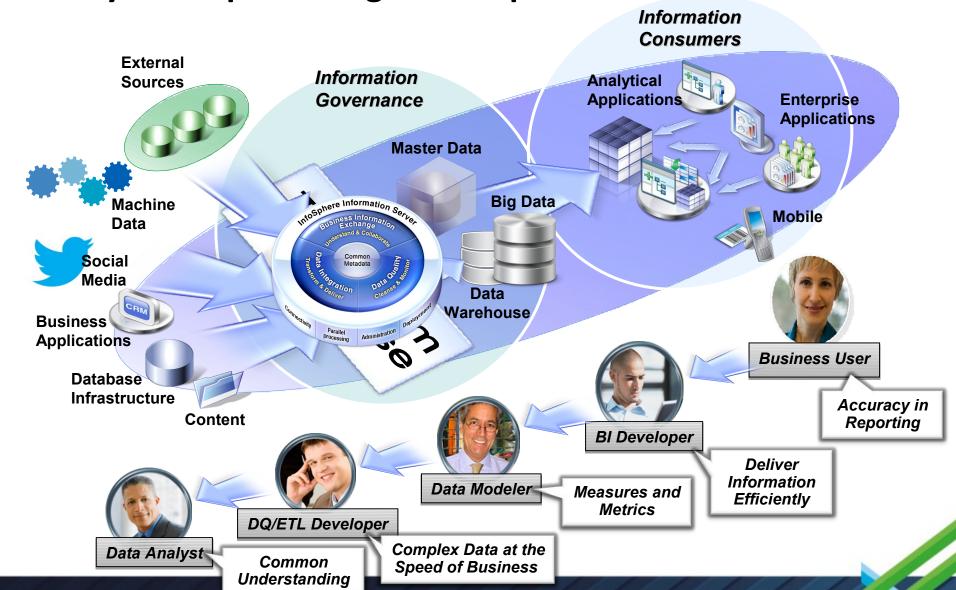






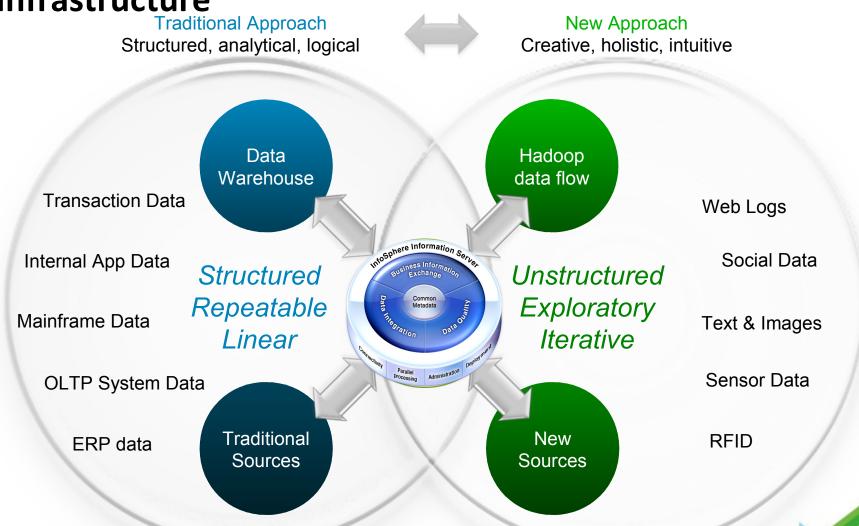
Information Supply Chain - Because Enterprise analytics require integrated capabilities





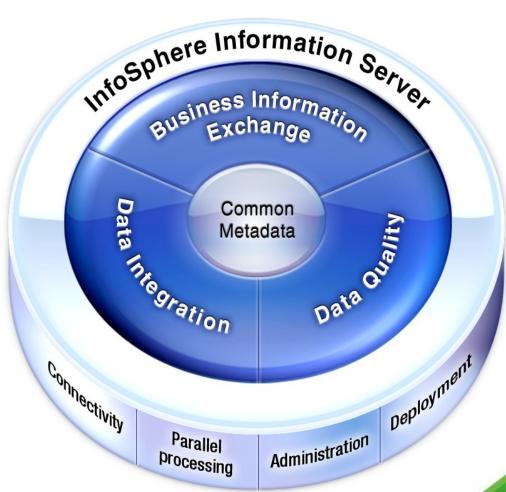


But Information Integration Requirements Are Becoming More Complex and Demanding on Infrastructure



The IBM approach to address each of the Requirements for Information Integration Integration and Governance: InfoSphere Information Server

- Integrating and transforming data and content
- to deliver accurate, consistent, timely and complete information
- on a single platform unified by a common metadata layer



Business Information Exchange: Understand Your Island Information, Transforming it into an Enterprise Asset

Three dimensions of understanding and governance:

Business

Gain and manage business perspective about information and align with IT

- leading technology for business-friendly access and pre-packaged terms
- time-saving Industry Models for warehouses in key industries

Process

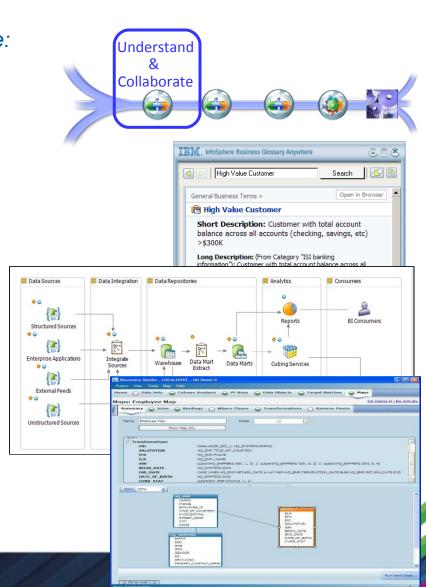
Guide projects with best practices to achieve goals with reduced risk

 unique capability to architect information projects with embedded methodology that can be tracked

Technology

Discover data structures and understand your lineage to manage compliance

unique capability for discovering business objects





Data Quality: Cleanse Data and Monitor Quality, Turning Data Assets into Trusted Information

Analyze data, cleanse data and control data quality

Analyze

Use source system analysis to understand your issues

 automated discovery of critical data and hidden data relationships

Cleanse

Investigate, standardize, match and survive data

most comprehensive & customizable solution

Control & monitor quality

Assess and monitor the quality of your data in any place (database/or data flow) and across systems

 unique capability to align DQ metrics with business & governance objectives



IBM.

Data Integration: Transform and Deliver Data to Any System, Improving Time to Value

Integrate and <u>transform data</u> on demand across multiple sources and targets ...

Transform

Satisfy the most complex transformation requirements with the most scalable runtime available

- Transform and aggregate any data volume
- Benefit from hundreds of built-in transformation functions
- Leverage metadata-driven productivity and enable collaboration
- Use a simple, web-based dashboard to manage your runtime environment
- Manage your requirements for transformation activities to align with the business







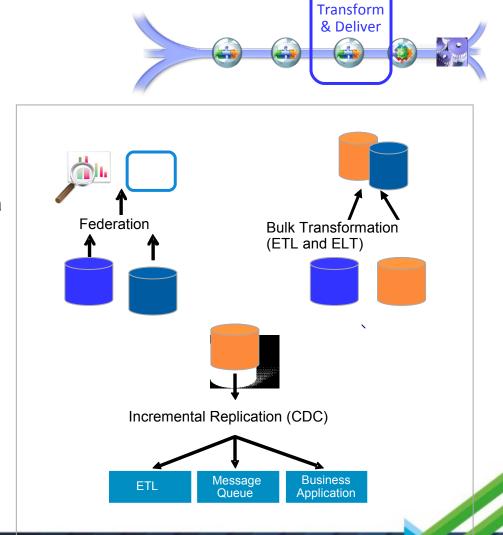
Data Integration: Transform and Deliver Data to Any System, Improving Time to Value

<u>Deliver data</u> efficiently according to your business requirements

Deliver

Leverage unique capabilities to:

- Read from low-impact DBMS logs
- Apply any level of complex data integration/data quality logic
- Guarantee delivery through two-phased commit to one or more DBMS or MQ targets
- Support the most complex & challenging realtime integration requirements



Common Metadata Layer - Why It's Important



Different roles create and consume different metadata





Business Users





Subject Matter Experts



Architects





Data Analysts



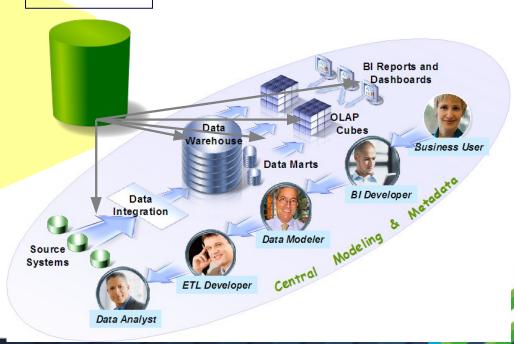
Developers



Simplifies integration

- Facilitates change management and reuse
- Increases compliance with standards
- Increases trust and confidence in information

Common Metadata







Agile Integration – for faster, more flexible integration

Business-Driven Governance – for consistent rules and policies

Sustainable Quality – for greater accuracy and adaptability

... to help our customers achieve:







"Anywhere" Integration Capabilities - Greater Agility to Get the Most from Your Environment



Unstructured Stage support

Provides native support for Excel spreadsheets data sources



InfoSphere Data Click

Achieve greater business agility in just a few clicks with simple self-service data integration capabilities on our rich governance framework



Enhanced support for big data

Integrate extreme variety, volume and velocity for both big data at-rest (Hadoop-based) as well as big data in-motion (stream-based)



Create business-driven information governance rules and policies

What is a customer? How do we manage customer data? How do we ensure customer data complies with our information governance policies in North America? In Europe?



Assign terms to business processes

Drag and drop terms in your business process modeling environment to create elements and/or assign terms



Native Excel Access

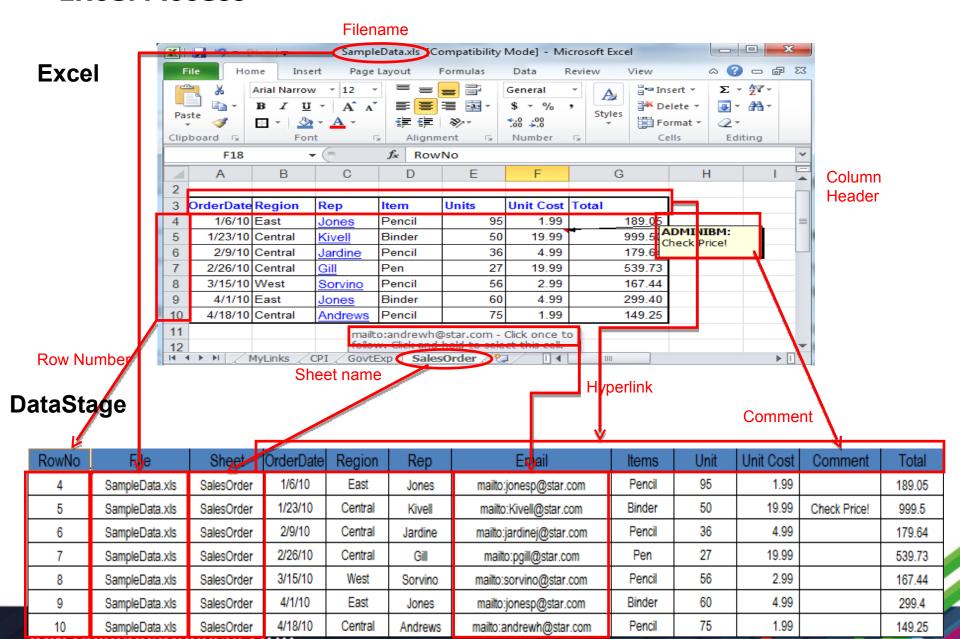
New Unstructured Stage provides....

- 3-Step Configuration enter file name, select data range and setup column name mapping
- Native Excel File Support reads data from any supported OS (Windows, Linux, Unix)
- XLS Version Variants includes both Excel 97-2003
 OLE2 (.xls) and 2007 OOXML (.xlsx) file format
- Simplified Access no need to define ODBC DSN for each excel file
- Password Protected Files read data from password encrypted files
- Multiple File Support ability to simultaneously process multiple files in different nodes
- Multiple Sheet Support extract data from multiple sheets at a time
- Runtime Column Propagation define column metadata
- Excel Field Extraction ability to extract row numbers, comments, hyperlinks, formulas, document Properties, etc...



Excel Access



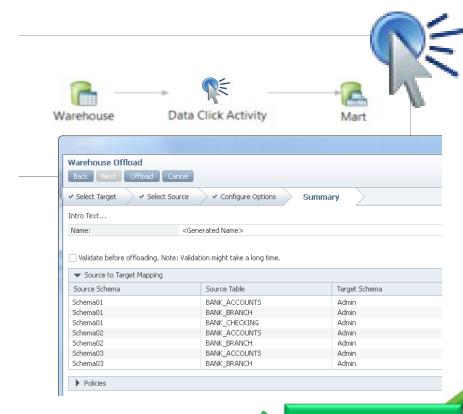


Agile Integration Capabilities - Introducing InfoSphere Data Click



Business Value: Speeds time to value and increases business agility by shrinking the time required to complete tasks – from days and weeks to minutes and hours.

- Enables novice users to perform data provisioning, with just two 'clicks'
 - Simple UI choices automated, without coding
 - Both design and operational metadata for built-in governance
 - Optimized batch and real-time runtimes
- First release focuses on accelerating PureData for Analytics deployments
- IBM is the only vendor to tackle the data provisioning problem with end-toend best-of-breed capabilities & built-in governance



Faster Time to Value



Agile Integration Capabilities – Enhanced Big Data Support

Business Value: Allows organizations to accelerate their "massive scale analytics" agenda by combining our MPP integration platform with the power of Hadoop

Combined workflows

 Easily mix traditional data integration workflows with analytical activities happening in Hadoop

Balanced Optimization for Hadoop

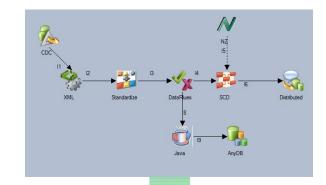
 Build data integration jobs for Hadoop in the same way as traditional ETL to leverage the locality of information processing for big data

Real-time analytics processing support

 Direct integration with InfoSphere Streams to combine the power and reach of both platforms

Big Data governance

Provide lineage metadata information for big data file system



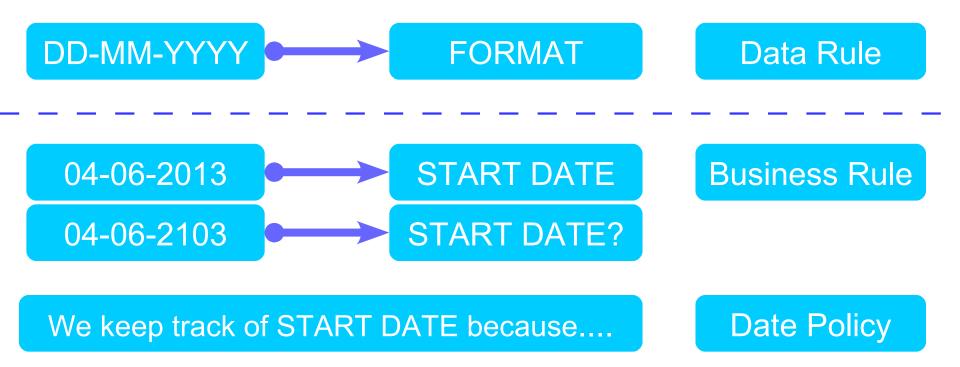


IBM is the only vendor with such a broad set of capabilities for big data at-rest and in-motion.

Lower TCO



Business-Driven Governance Capabilities - Why Is Business-Driven Governance Important?

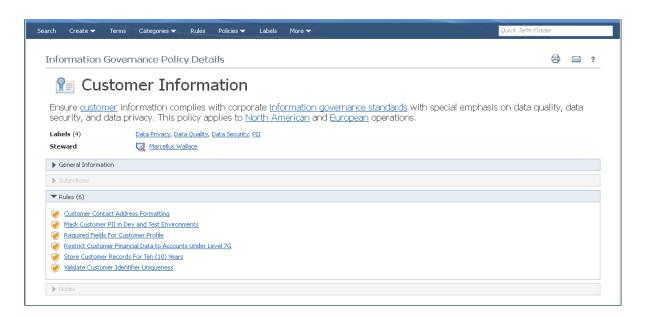




Business-Driven Governance Capabilities - Create Business-Driven Policies and Rules

Business Value: Gain greater control of and have more confidence in the information that powers your business.

- Policies define areas of information governance
- Information governance rules describe business expectations on information
- This capability provides a practical starting point for information governance initiatives
- IBM is the only vendor that offer deeply integrated business policies & IT rules







Business-Driven Governance Capabilities – Align IBM Implementations with Business Requirements

Business Value: More collaboration and alignment between LOB and IT teams increases accuracy, lowers risk, and ensures compliance.

- Implemented By: Indicates the operational assets that implement this rule
- Governs: Indicates that the data sources should comply with this rule





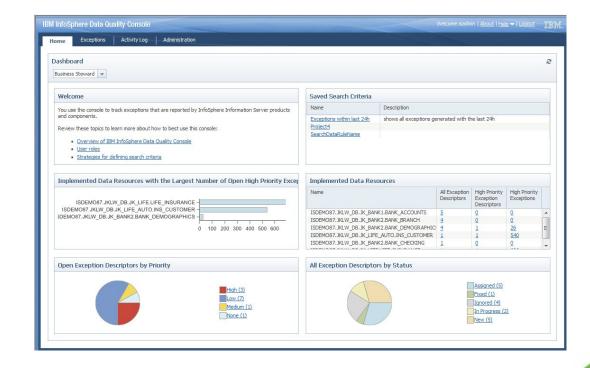
Sustainable Quality Capabilities - InfoSphere Data **Quality Console Provides At-a-Glance Views**



Business Value: Increases data quality awareness & provides greater flexibility and insight for managing and maintaining data quality

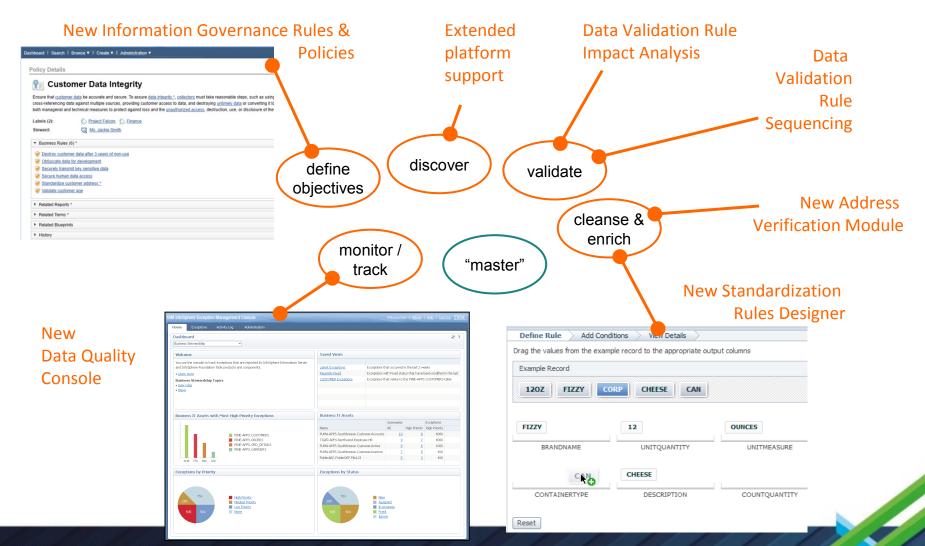
- Provides unified environment to assess and monitor data for data stewards, analysts, etc.
- Data quality summary charts direct users to most critical information
- Includes comprehensive search, filtering and drill down capabilities

IBM is the vendor with the broadest capabilities to monitor data rule exceptions within and across sources.





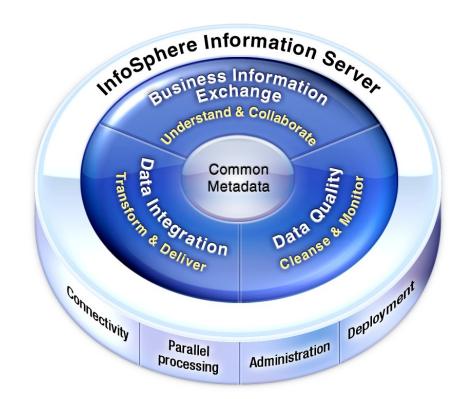
Sustainable Quality Capabilities: Ensure Accuracy and Quickly Adapt to Changes in the Environment



InfoSphere Information Server v9.1



- New capabilities focused on businessdriven governance
- Unique features for agile integration
- Enhanced usability for more sustainable data quality
- Close collaboration with customers and partners via early release programs to accelerate success
- Simplified packaging to address key use cases



What's next?



Market Leadership?

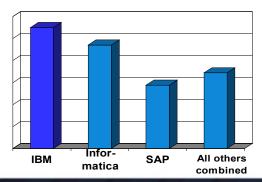


TABLE 1

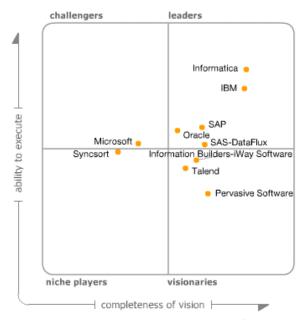
Worldwide Data Integration and Access Software Revent 2009-2011 (\$M)

	2009	2010	2011
IBM	599.1	720.0	797.1
Informatica	400.8	455.0	549.6
SAS	433.6	455.7	510.8
SAP	338.9	407.2	493.8

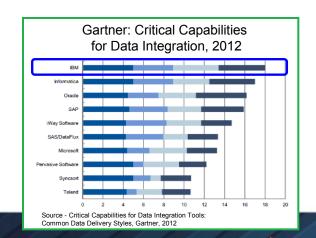
Gartner: IBM Leads Data Integration Tools Market*



Data Integration



As of October 2012





Product Rating Chart

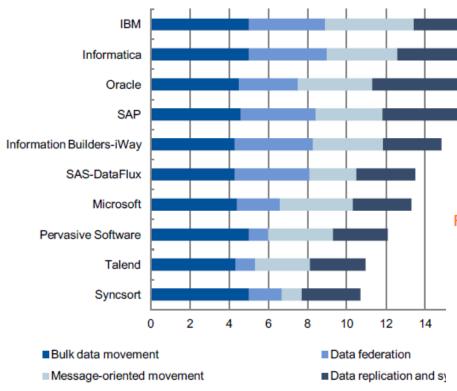


Figure 4. Product Score in Use Cases

Use Cases	IBM	Informatica	Oracle	SAP	SAS- DataFlux
Overall	4.7	4.6	4.3	4.3	3.8
BI, Analytics and (Logical) Data Warehousing	4.7	4.7	4.2	4.3	3.9
Data Consistency Between Operational Applications	4.9	4.7	4.5	4.3	3.7
Data or System Migrations and Consolidations	4.8	4.7	4.6	4.3	3.7
Master Data Management	4.7	4.6	4.2	4.3	3.9
Interenterprise Data Acquisition or Sharing	4.7	4.5	4.2	4.2	3.6

Source: Gartner (December 2012)















Flow and timing of typical Starter Kit engagement:

First Find the Pain, then Ask About Consequences



Briefing

- agreement on scope (information domain process domain)
- agreement on participants LoB+IT
- agreement on business sponsorship



Information Gathering/part 1

- plenary session (LoB+IT)
- data quality and availability on agreed scope
- application domain & data usage grid



- IT participants only
- architect view
- CVE model (metrics gathering)



Prepare recommendations & Business Case

- Kickstart templating
- Benchmarking Reference cases
- Architect high level integration view
- IBM Solution mapping
- Business Case TCO/ROI details
- Conclusion & Next Steps



Delivery Meeting

- presentation of recommendations & Business Case
- presentation of IBM Solution components
- agreement on next steps

Data Profiling Lab



- Do you dare to profile YOUR data sample ?
- 10 participants from this audience
 - End users only!
 - First come First serve base
 - Business card!
- Data Profiling Lab
 - Hands-on: bring your own data on the USB stick provided here
 - will take place in IBM Client Center
 - 25 September 2013 Brussels
 - 02 October 2013 Amsterdam

Your Information Governance Team in the Benelux TEM &





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