

Building Confidence in Big Data

Innovations in Information Integration & Governance for Big Data





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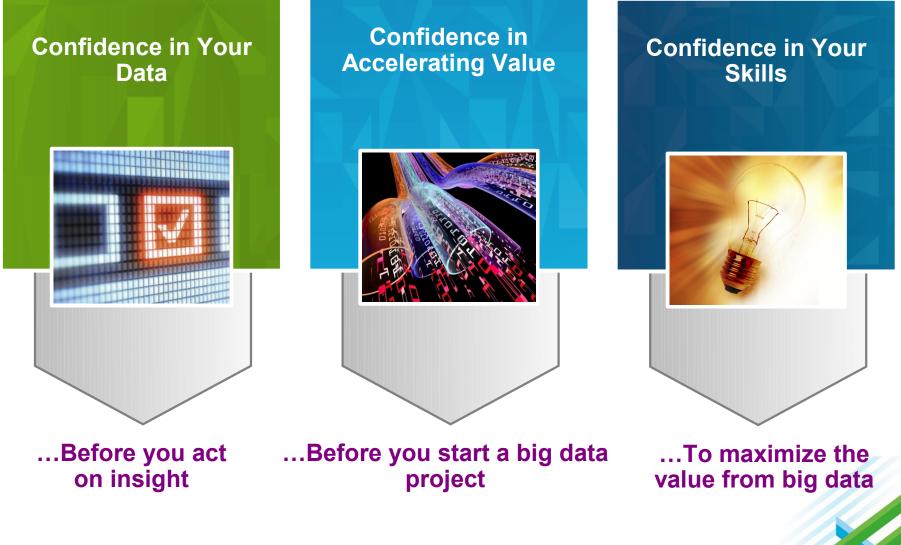
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Success With Big Data Comes Down to Confidence





Today's Announcement Builds Big Data Confidence



InfoSphere Integration & Governance for Big Data



Confidence in your Data

- Automated integration
- Visual context to understand data
- Agile governance to protect sensitive big data

PureData System for Hadoop



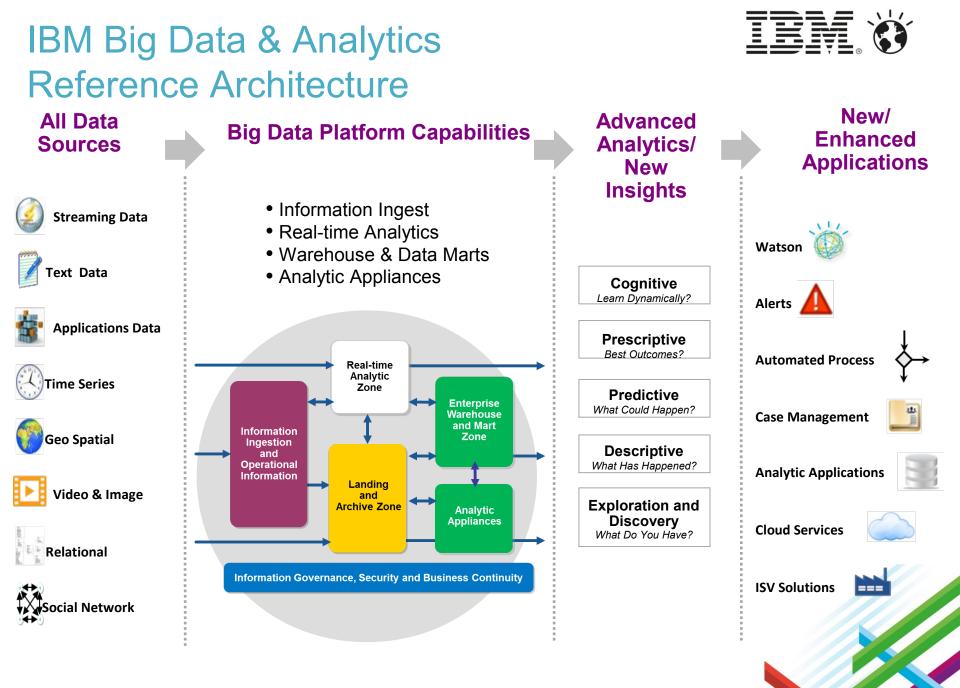
Confidence in Accelerating Value

- Appliance simplicity for Hadoop systems
- Appliance speed Get up and running in hours

Big Data Stampede

Confidence in your Skills

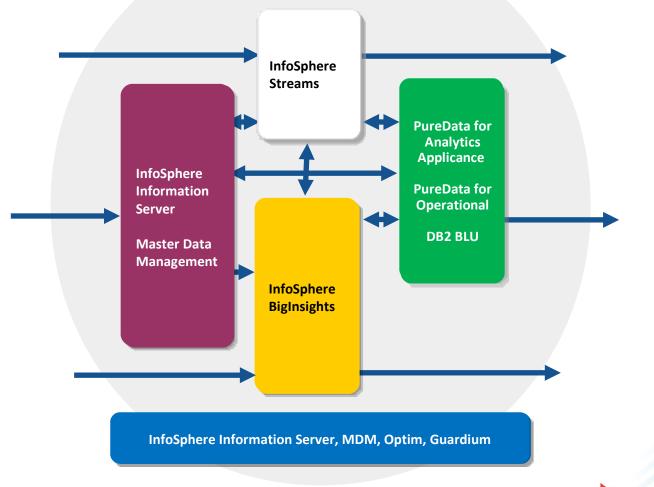
- All the resources needed to get value from big data quickly
- Software, expertise and skills



IBM Big Data & Analytics Reference Architecture

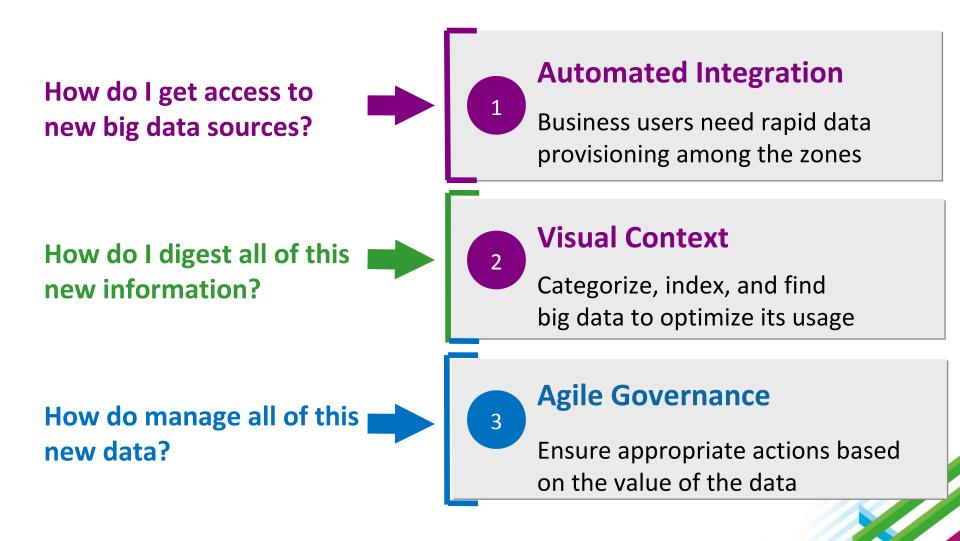


Open Architecture/ Multiple Product Entry Points



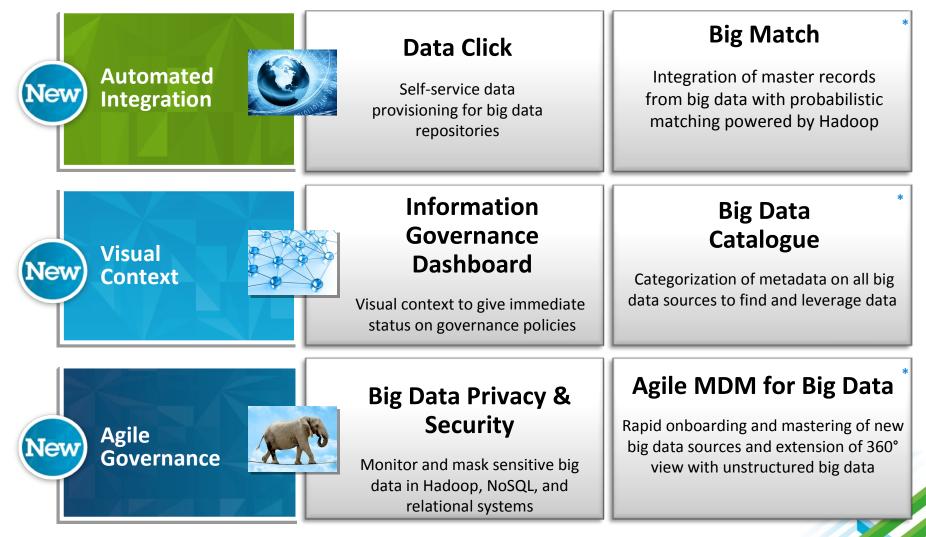


IIG Evolves to Address Big Data Challenges





Six Innovations that Build Big Data Confidence



* Statement of Direction

InfoSphere Data Click Self-service Data Provisioning

Innovation

- Two-click data provisioning designed for business users
- Integration of more big data sources

Value

- Rapid provisioning of ad-hoc repositories
- Faster time to insight
- Self service to eliminate the IT bottleneck

Usage

Enables rapid analysis of big data sources





Intro Text		
Name:	<generated name=""></generated>	
Validate befo	ere offloading. Note: Validation might take a long time.	
🐨 Source to T	Target Mapping	
Source Schema	a Source Table	Target Schema
Schema01	BANK_ACCOUNTS	Admin
Schema01	BANK_BRANCH	Admin
Schema01	BANK_CHECKING	Admin
Schema02	BANK_ACCOUNTS	Admin
Schema02	BANK_BRANCH	Admin
Schema00	BANK_ACCOUNTS	Admin
Schema03		

Big Match: Find & Integrate Master Data in Big Data Sources

How It Works

- Probabilistic matching on big data platform (BigInsights-Hadoop)
- Matching at a higher volume
- Matching of a wider variety of data sets

Client Value

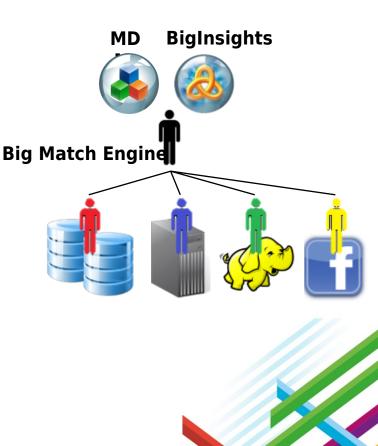
- Find master data within big data sources
- Get an answer faster enable real-time matching at big data volumes

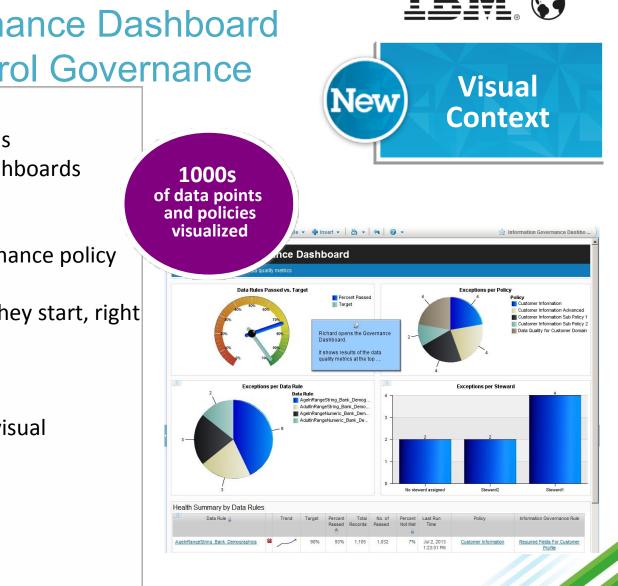
Building Big Data Confidence

Provides more context by detecting master entities faster









Information Governance Dashboard Visualize and Control Governance

Innovation

•Indicators for policies and KPIs

•Rapid creation of tailored dashboards

Value

•Immediate insight into governance policy status

 Interception of issues when they start, right at the source

Usage

•Raises data confidence with visual governance status

Big Data Catalogue Find Big Data More Easily

Innovation

- Stores metadata on every available big data source
- Provides structure to the Hadoop landing zone so data may be easily found and leveraged
- Classifies data (origin, lineage, source, value)

Value

- Find data more easily within a growing Hadoop landing zone and a complex zone architecture
- Rapidly leverage new big data sources

Usage

Enables optimal usage of big data





Big Data Catalogue



Big Data Privacy and Security Protect a Wider Variety of Sources

Innovation

Data activity monitoring of more NoSQL,
Hadoop, and Relational Systems
Masking of sensitive data used in Hadoop

Value

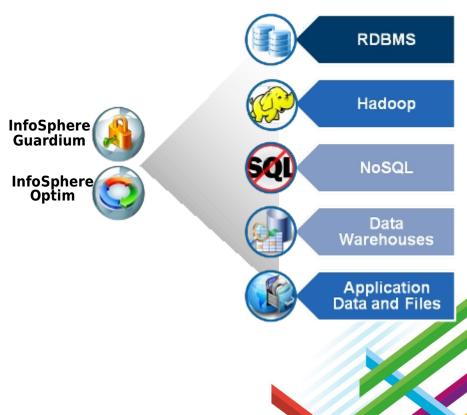
Protection is a pre-requisite for the fundamental assumption of big data – sharing data for new insight
Automation enables protection without inhibiting speed

Usage

•Ensures sensitive data is protected and secure









How It Works

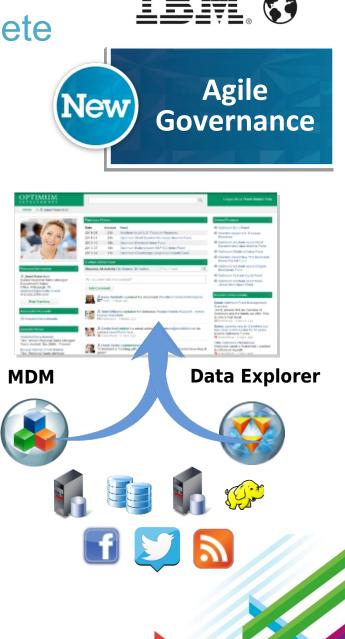
- Extend the master view with federated, unstructured big data
- Hybrid styles enable linking or consolidating source records based on confidence (Availability: July 2013)

Client Value

- Visualize every related data item in the 360° view
- Rapidly onboard new big data sources
- MDM adapts to the source

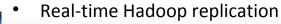
Building Big Data Confidence

• Provides a complete understanding of the customer or master entity



More Innovations that Build Confidence





- Accelerated delivery for System z
- Certification on Hortonworks and Cloudera



Automated

Integration

- Enhanced performance for metadata ingestion
 Metadata APIs to enable application-specific dashboards & views
- Integration between InfoSphere Business Information Exchange and Data Explorer to identify and classify big data metadata



- Hadoop integration with data lifecycle management archive files on Hadoop
- Enhanced performance for monitoring reports
- Evolved governance practice—Agile process for the information governance community

Competitive Differentiators



✓ Automated Integration

- InfoSphere Data Click No one else has delivered a feature that supports self-service data integration
- ✓ DB2 z optimization: InfoSphere Information Server Full support for DB2 z is unique

✓ Agile Governance

- Hadoop based access to archived data IBM is the only vendor who can generate immutable archive files & provide the same information in hadoop
- Masking confidential data and files for Hadoop projects Most data security vendors don't have the breadth of capabilities and extensibility we offer

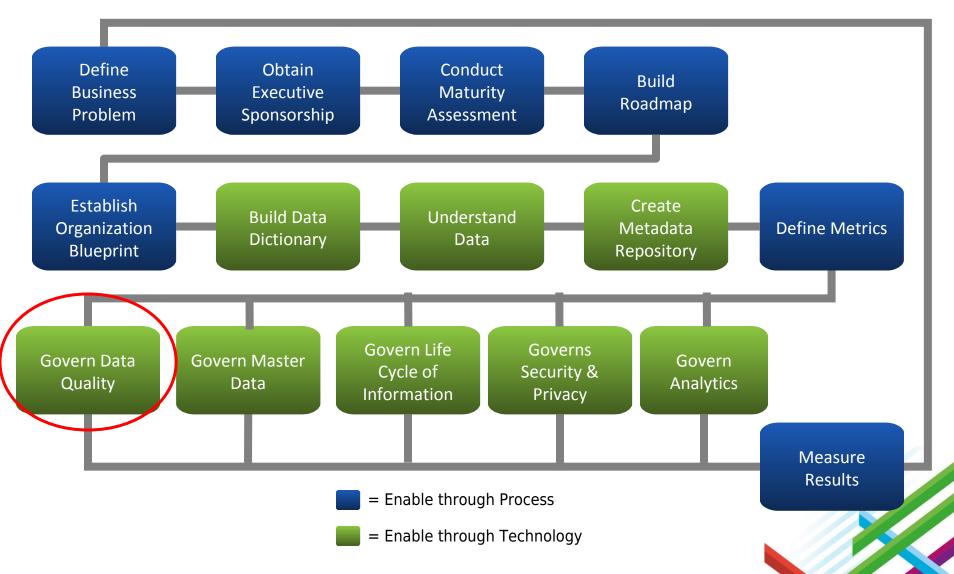
✓ Visual Context

- Information Governance Dashboard No other vendor offers a clear, complete view of governance policies and results
- MDM Matching on BigInsights IBM is the only MDM vendor with integrated matching capabilities across traditional and big data platforms



IBM Information Governance Unified Process

Because Data Quality needs a repeatable Governance Process



IBM InfoSphere – Information Integration & TEM **Governance Platform for all Use Cases**



Use Cases	InfoSphere Information Server	InfoSphere MDM	InfoSphere Optim	InfoSphere Guardium
Deliver Trusted Information for Data warehosuing and business analytics	Ø	Ø	Ø	Ø
Build and manage a Single View	Ø	Ø	0	0
Consolidate and Retire Applications	Ø		Ø	\bigcirc
Make Enterprise Applications more Efficient	Ø		Ø	
Secure Enterprise Data and Ensure Compliance	Ø	Ø	Ø	
Transform Enterprise Business Process & Applications with Trusted Information	Ø	Ø		
Integrate & Govern Big Data	Ø	Ø	Ø	Ø
		Critical Ocomplements		

Consulting Firms talking....



It is already the case that stand-alone tools supporting specific data management disciplines are no longer good enough. What is needed now is a complete integrated suite of tools for end-to-end information governance that share metadata and that can be used together to systematically get information under control

There is no question that IBM has understood the demand for this in the marketplace. They have invested heavily in information management over the last several years and have produced an integrated suite of tools in IBM InfoSphere Information Server and IBM InfoSphere Foundation Tools that lead the market in end-to-end structured information governance. In addition they have also integrated this platform with IBM MDM Server and IBM Cognos 10. This, coupled with shared metadata across the entire platform and full metadata lineage, makes IBM a certain shortlist contender for those companies trying to get their information under control.

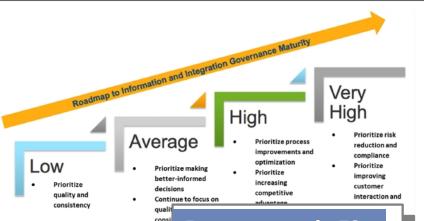


INTELLIGENT BUSINESS

IIG mastery helps transform the business

Figure 7

IIG Mastery Provides Business Transformation Potential For Big Data



Source: A commissioned study conducted by Forrester Consu

Gartner.

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Big Data Governance From Truth to Trust

Published: 18 July 2013

Analyst(s): Andrew White, Daniel Sholler

Business leaders recognize that big data can help deliver better business results through valuable insights. Without an understanding of the trust implicit in the big data (and applying information trust models), organizations maybe be taking risks that undermine the value they seek.

In our research, 59 percent of organizations cited incompatible tools as one of the biggest barriers to a single, comprehensive version of business data.



IBM BusinessConnect Realize the art of the possible.



Thank You!



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