

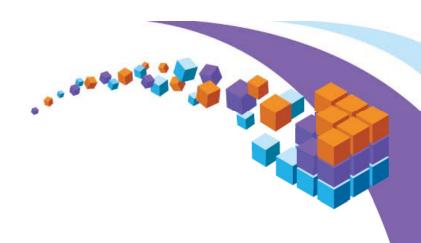


Delivering Trusted Information for Smarter Business Decisions



Sue Eris – Technical Sales

01/05/2012





#### What we'll discuss

- Overview of Data Quality in the Information Supply Chain
- Challenges of Poor Data Quality
- Ensuring Data Quality Across the Enterprise
  - Understand & Define
  - Cleanse & Standardise
  - Monitor & Govern continuously
- Demo of InfoSphere Information Server





#### Too many organisations are operating with blind spots

1 in 3

Business leaders frequently make decisions based on information they don't trust, or don't have

1 in 2

Business leaders say they don't have access to the information they need to do their jobs

\$5.7M USD

Lost time **reformatting information** between applications

\$5.3M usd

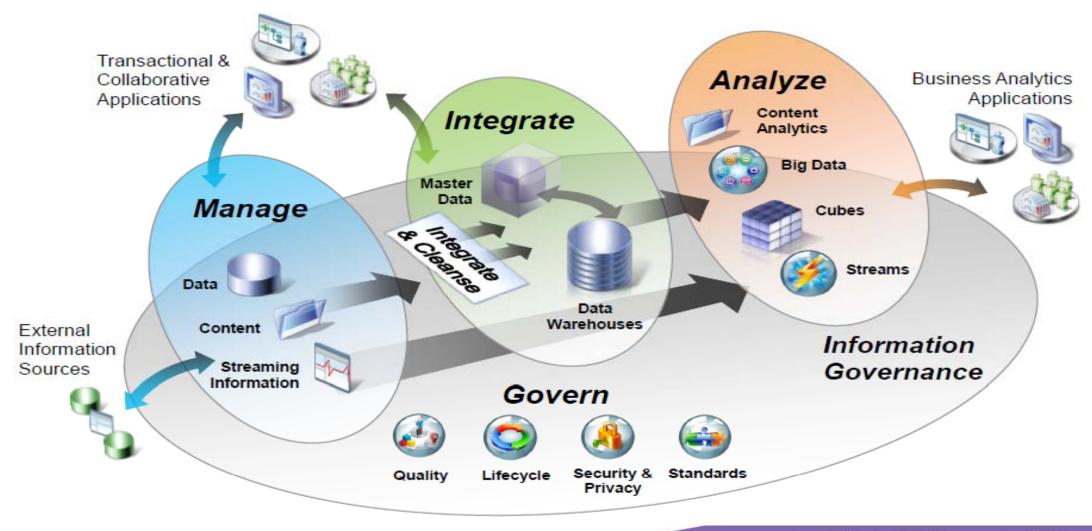
Lost time searching for the right

Annual cost per 1,000 knowledge workers



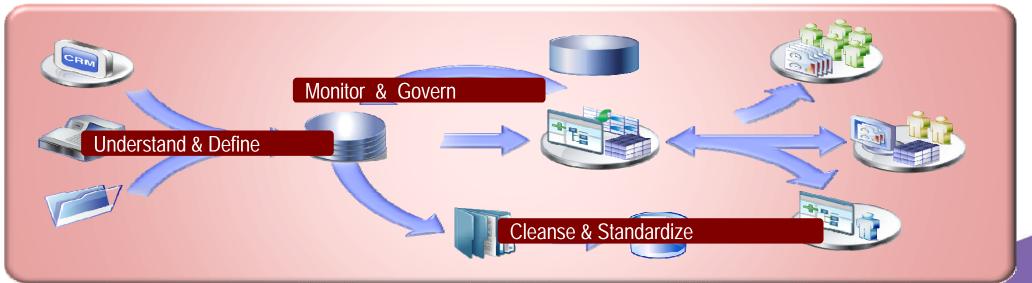
Sources: IBM: Break Away with Business Analytics and Optimization Study; IDC

#### Success requires governance across the "Information Supply Chain"



Data Quality in the Information Supply Chain

- **Define** what 'high quality' data means within your business
- Standardize and cleanse data to enable strategic initiatives
- Constantly monitor for data quality issues and understand how to deal with an exception when it occurs
- Understand the lineage of your data











- Compliance and transparency pressures increasingly highlight data quality issues
  - No method to maintain high quality data



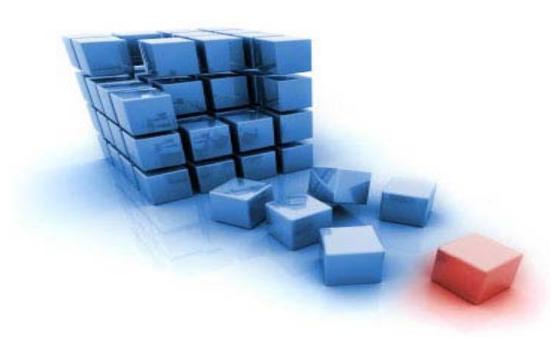
- Unreliable insights
  - Low data quality leads to lack of trust and results in poor business decisions
  - Inability to identify source of quality issues
  - Unreliable insights are persisted to other strategic initiatives, which then base key business decisions on bad data



- High costs & negative customer satisfaction
  - Organisations are recognizing that there can be both direct (missed revenue opportunity)
    and indirect (low customer satisfaction and high churn) financial costs from poor data
    quality.

# Can't Define Quality If You Don't Understand Your Data Challenge:





- Distributed heterogeneous sources
- No documentation on data structures and data relationships
- Inconsistent data definitions between Business User and Technical User
- Lack of trusted data unknown quality
- Limited understanding of confidential data elements
- Data does not stand still, new data always added, but not necessarily evaluated for quality

#### **Cost Prohibitive Alternative Solutions:**

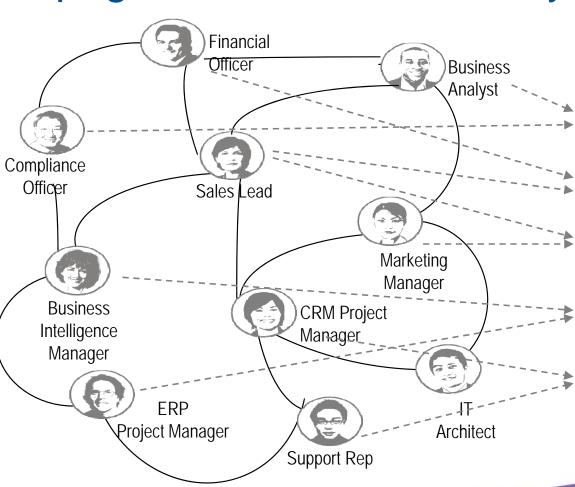
Manual spot checking of data not feasible or reliable



#### Lack of Consistent Terminology Propagates Poor Data Quality







#### How does each user define:

#### "Active Subscriber"?

- ☐ Mobile user who has used "any" service in the mobile network
- ☐ User who paid for the service at
- least 1 time in the past 90 days.

  ☐ Mobile user who has a phone plan,
- but not SMS
- ☐ Only post-paid customers, not prepaid customers
- ☐ User who makes at least 1 call over the period of 90 days



#### Why Should I Care About Cleansing

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**IBM** 

I.B.M. Inc.

Int. Bus. Machines

International Bus. M.

### Cleanse & Standardize

60 City Road Southgate VIC 3006



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Lack of information standards

Data surprises in individual fields

Information buried in free-form fields

Data myopia

The redundancy nightmare

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	Kate A. Roberts	416 St Kilda Rd #2,	Saint Kile	da, VIC	3182
	Catherine Roberts	Four sixteen St Kilda A	APT2, Elwood,	VICT	3184
	Mrs. K. Roberts	416 Saint Kilda Unit 2,	St Kilda		3100
	Name	TFN	Т	elephone	
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## Monitor & Govern

# Monitor Data Quality with Integrated Data Rules

- Data rules enable data quality monitoring over time and leverage data analysis at different points during an integration project
- → Helps establish benchmarks and baselines to help track data quality is it deteriorating or remaining constant?
- Is used to place indicators/flags in enterprise data which can be tested for valid/invalid values
- ☐ Flag bad data for audit



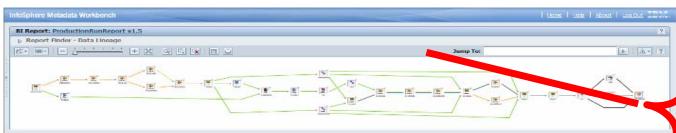


#### Govern the Information Supply Chain

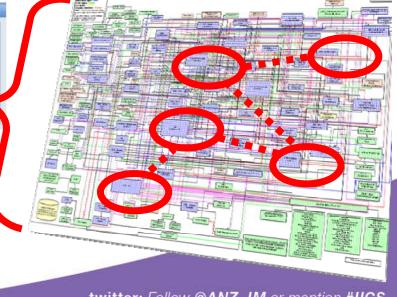








- Understand the impact of change
- Trace data lineage from sources, through processing and all the way through to data consumption



# IBM Provides Solutions for Creating High Quality Data



- A comprehensive Information Governance strategy for creating high quality data that helps you...
  - Ensure that your data contains accurate and complete information you can trust; while reducing the risk of propagating bad information throughout your organization.
  - Build a common understanding of your data across the enterprise among business and technical users.
  - Establish defined data quality rules or standards and continuously monitor the flow of data through the information lifecycle to enforce adherence to those rules and standards.
  - Provide the means to rapidly investigate and resolve data quality issues when they do occur.

Understand & Define

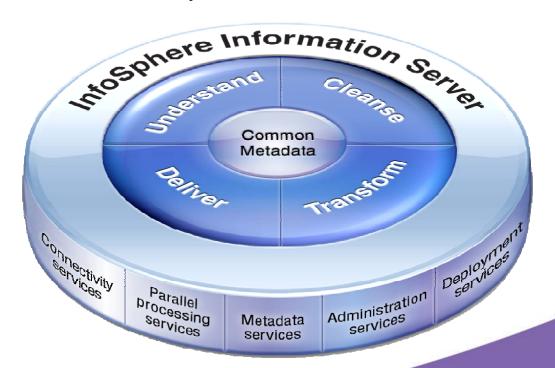
Cleanse & Standardize

**Monitor & Govern** 



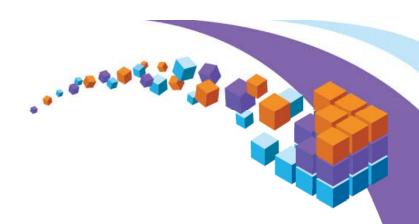
# IBM InfoSphere Information Server A Platform for Data Quality and Information Governance

- Provides the framework for defining a business vocabulary
- Promotes Stewardship
- Measures and monitors data quality
- Encourages collaboration
- "Touches" everything
  - Source and target data throughout the enterprise
  - Data movement and transformation
  - Business intelligence
- Illustrates end-to-end data lineage
- Powerful functionality surrounding a common "core" of managed metadata









### **Demonstration Scenario**



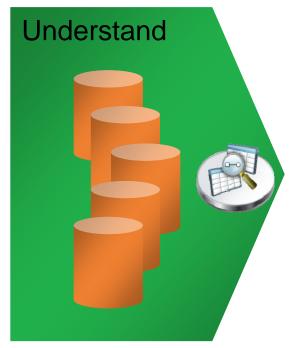
#### **Business Problem**

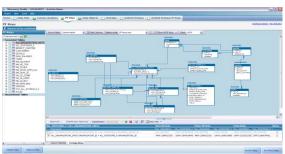
- Company had multiple sources
- Need to integrate and govern, but...
  - Do not know what they do not know
  - Do not know where the critical data is
  - People that know the sources are gone
  - Heterogeneous sources



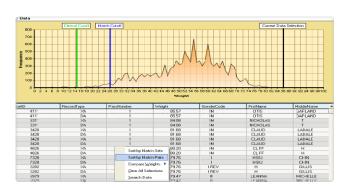
#### Business Problem Solution





















### **Demonstration**

# InfoSphere – the only vendor who is a leader in every category of Information Integration and Governance





27.5% market share

_eader!	Information
	Integration &
	<b>Data Quality</b>

Leader!	Master Data	<b>40</b> 0/
	Management	40% market share

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Leader!	Lifecycle	76% market share	
	Management	1 0 / 0 market snare	

Leader!	Privacy & Security	"IBM InfoSphere Guardium	
		has been deployed across	
		many large enterprises"	



#### IBM

## InfoSphere software

Trusted Information



