

Leveraging System z to Turn Information Into Insight

Steve Mink

Sr. Manager, IM Mainframe

Strategy & Marketing

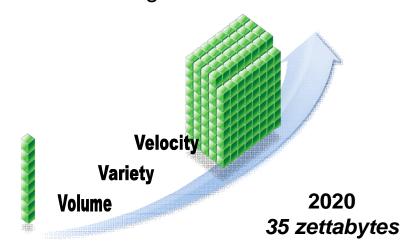


Information is at the Center Of a New Wave of Opportunity...

... And Organizations Need Deeper Insights

44x

as much Data and Content Over Coming Decade



2009 800,000 petabytes 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

83%

of CIOs cited "Business intelligence and analytics" as part of their visionary plans to enhance competitiveness

35%

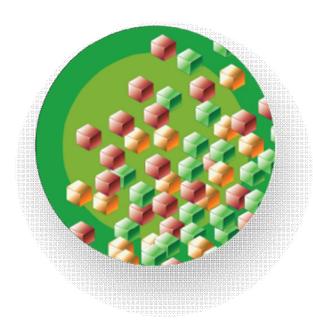
of businesses will look to replace their current warehouse with a <u>pre-integrated</u> Warehouse solution in the next 3 years; only 14% have today

Sources

- The Guardian, May 2010
- IBM Institute for Business Value, 2009
- IBM CIO Study 2010
- TDWI: Next Generation Data Warehouse Platforms Q4 2009

There is a Gap Between Information and Outcomes

Information Explosion



How do I align my information with my business?

How do I make the right information available when and where it's needed?

How do I support better decision making throughout my organization?

Optimized Outcomes



Customer Insight

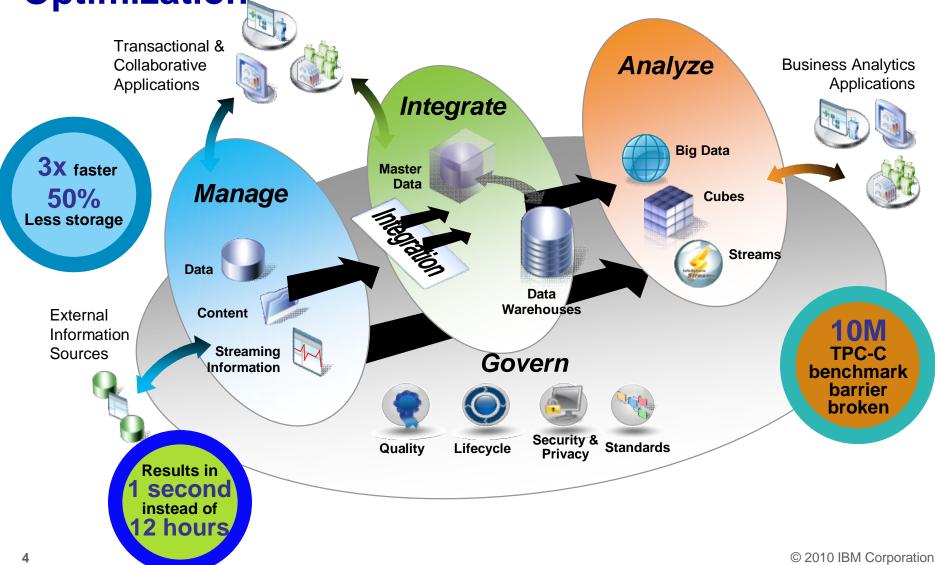
Supply Chain Management

Fraud Detection

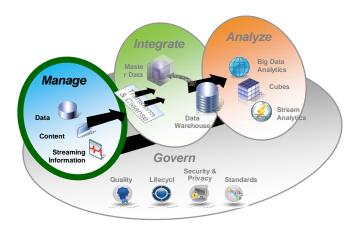
Human Capital Management



Foundation for Business Analytics and Optimization



Managing Information



Products

DB2 Solid DB

Informix IMS

Data Management

- · Capabilities for managing structured information
- Leverage existing IT investments across a heterogeneous landscape
- Flexibility to adapt to changing business needs
- Lower total cost of ownership

Key Capabilities

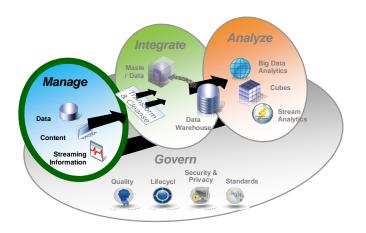
Clustering Java Optimizations

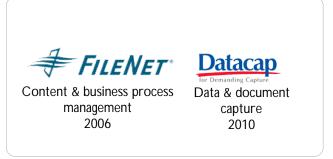
Data compression SQL skins

Autonomic Workload Optimization

In memory DB XML

Managing Information





Enterprise Content Management

- Manage unstructured information
- Integrated, open environment
- Cross-functional capabilities useable across set of shared services
- Unified platform for content, process and compliance

Key Capabilities

Document Imaging and Capture

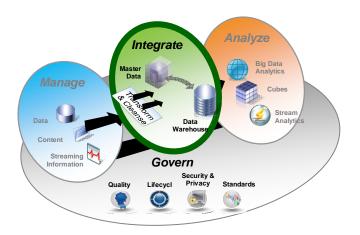
Social Content Management

Advanced Case Management

Content Analytics

Information Lifecycle Governance

Integration



Products

InfoSphere Data Warehouse



Appliances 2010

Data Warehouse

- Deal with TB and PB of data
- Reduced time to value, days not weeks
- Perform data mining without copying data
- Work with analytical and transactions data in real time.

Key Capabilities

Data mining & visualization

Embedded data movement and transformation

Unstructured Data Analysis

Extreme Workload

Management

Data models & sample reports

Integrated analytics systems

Mashups

Real time analytics

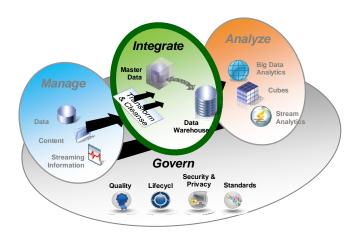
Industry models

Clinical analytics

Modeling & design tools

Hadoop

Integration



Products

InfoSphere Information Server

Change Data Capture

Replication

Information Integration

 Integrating and transform data and content to deliver authoritative, consistent, timely and complete information

Key Capabilities

Data Discovery

Data Extraction, Transformation and Loading

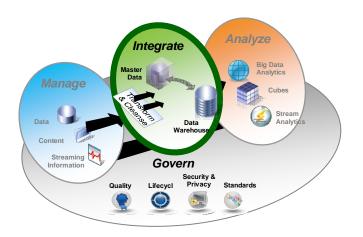
Data Modeling

Data Profiling

Data Quality

Metadata Management

Integration



Products

InfoSphere MDM Initiate Exchange

Entity Analytics

Master Data Management

Create common data about customers, suppliers, partners, products, materials, accounts and other critical entities

Key Capabilities

Account

Customer

Product information

Asset track and trace

Entity Resolution & Analysis

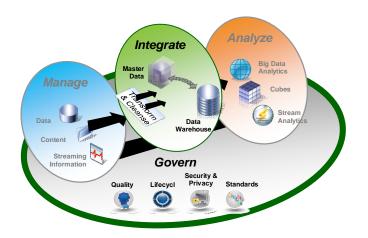
Name Recognition

Healthcare Information

Exchange

Location

Information Governance



Products

Optim

Guardium

Infosphere Discovery

Information Governance, Risk, and Compliance

Delivers complete, consistent and accurate information that decision-makers trust to improve business performance

Capabilities

Data Discovery

Data Encryption

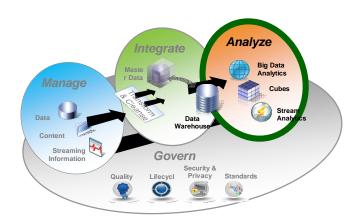
Data Growth Management

Data Masking

Database Activity Monitoring

Test Data Management

Business Analytics





Business Analytics

Delivers complete, consistent and accurate information that decision-makers trust to improve business performance

Capabilities

Business Intelligence

Financial Performance & Strategy Management

Analytic Applications

Predictive & Advanced analytics

Governance Risk & Compliance



The IBM Information Agenda Approach

Align people,

process, &

information

Establish end-to-end vision & business-driven value



Accelerate projects for short & long-term ROI

Architect an extensible information infrastructure



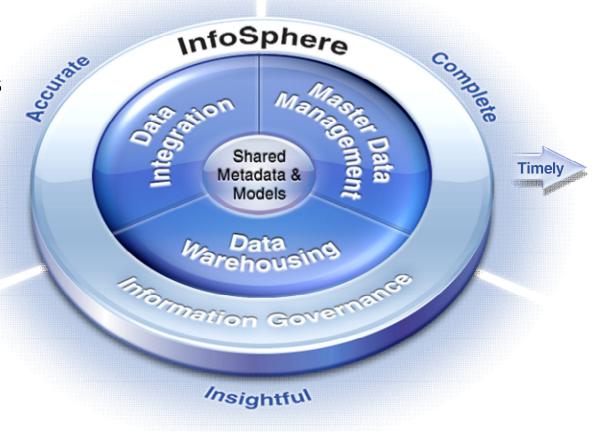
Information Integration



The InfoSphere Portfolio delivers unique synergistic value that accelerates and improves business results and reduces cost and risk

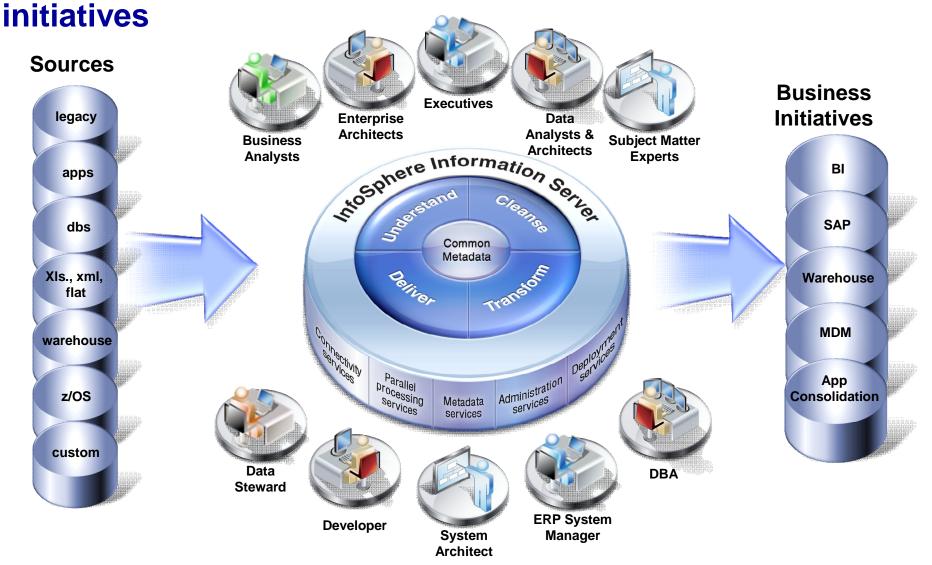
Accelerated value through:

- Deep integration across components
- Shared Understanding of existing assets
- Collaborative tools to align IT and business
- Shared model-driven design tools
- Pre-built accelerators to speed deployment

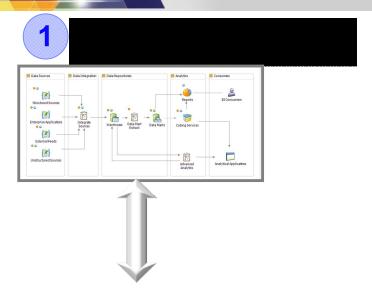




Align business and IT objectives using single platform that creates trusted information for use in key





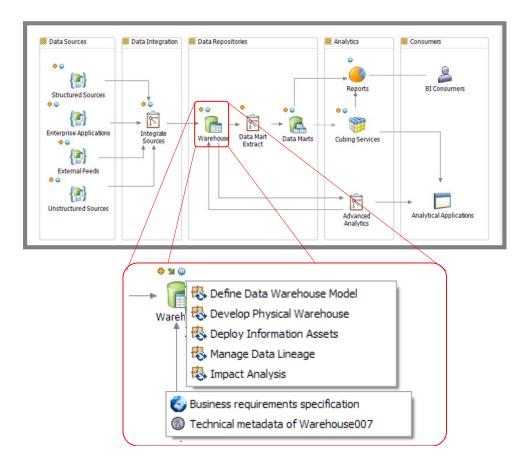


InfoSphere Blueprint Director



Blueprint Director

Design your integration landscape with a visual approach from high – level to detailed design.



Requirements

- Define and manage an end-2-end information flow.
- Link to a defined reference architecture and ensure collaboration.
- Provide insight to the information roadmap across the organization.

Benefits

- Ensures on-time delivery via a re-usable approach to delivery.
- Guarantees best practices are implemented across shared teams and workstreams.
- Ensures collaboration on the design before action is taken.



(2) Strongston lover

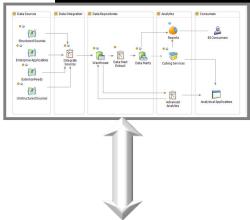
(Marcon 1) Strongston Relations (Strongs)

(Marcon 1) Strongston Relations

(Marcon 1) Strongston Relat

Document KPIs and associated business terms

Start from consistent blueprint, leveraging "best" practices

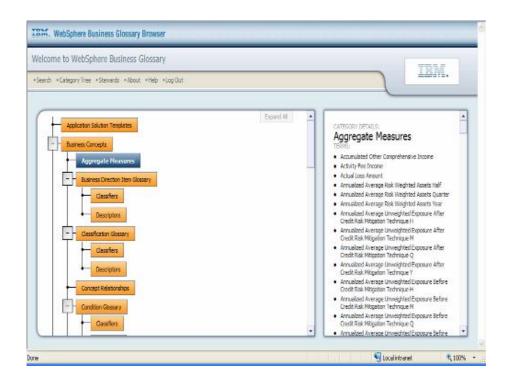


InfoSphere Business Glossary



Create and manage business vocabulary and relationships and related to physical sources

Business Glossary



Requirements

- Capture business terms and classifications
- Link business terms and classifications to IT assets
- Identify data stewards and make glossary accessible

Benefits

- Context for information is available to everyone, immediately
- IT projects are aligned with data governance
- Collaboration increases across business and IT

Industry Models



- Proven approach and methodology
- Embedded industry expertise
- More than 500 global clients



Banking * Insurance * Telco * Retail * Healthcare * Financial Markets

Requirements

- Utilize Industry standard business definitions across the enterprise.
- Leverage connectivity to data model as an accelerator to industry driven projects.
- Deliver consistency across the business and IT stakeholders.

Benefits

- Reduces analysis and design of functional requirements by more than 40%
- Accelerates stakeholder approval by more than 50%.
- Reduces time to value decreasing operational costs



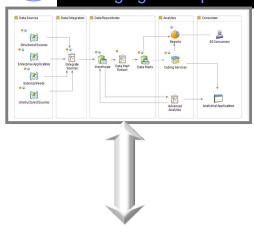
Start from consistent blueprint, leveraging "best" practices



Document KPIs and associated business terms



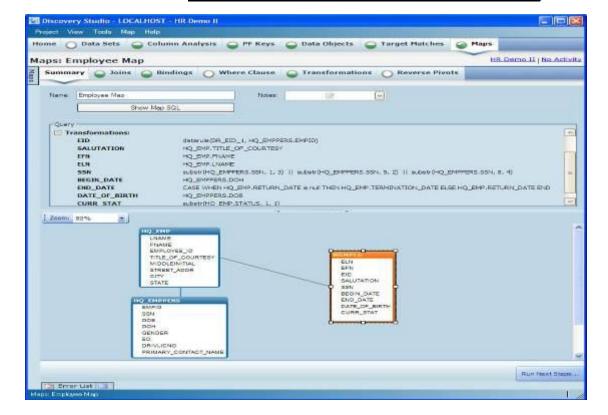
Identify where KPI's exist, relationship and level of quality



InfoSphere Discovery



Accelerate project deployment by automating discovery of your distributed data landscape



Requirements

- Define business objects for archival and test data applications
- Discover data transformation rules and heterogeneous relationships
- Identify hidden sensitive data for privacy

Benefits

- Automation of manual activities accelerates time to value
- Business insight into data relationships reduces project risk
- Provides consistency across information agenda projects



EM. strangen love

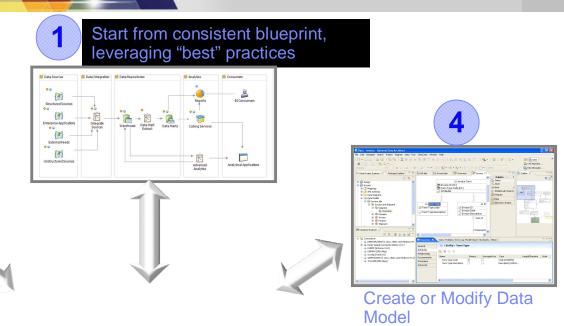
| Common temporal common temporal
| C

Document KPIs and associated business

terms



Identify where KPI's exist, relationship and level of quality

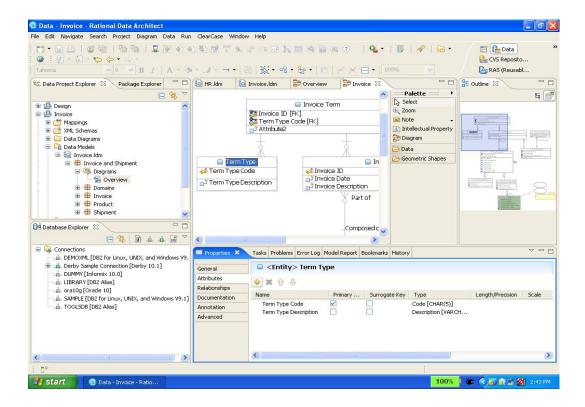


InfoSphere Data Architect



Data Architect

Model, visualize, and relate diverse and distributed data assets



Requirements

- Design and manage enterprise models
- Enforce model conformance to enterprise standards
- Leverage industry data models for best practices

Benefits

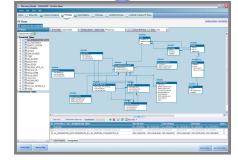
- Speed design activities
- Populate BusinessGlossary from model terms
- Validate models for enterprise conformance



20 | State and the State Andrew State Andrew

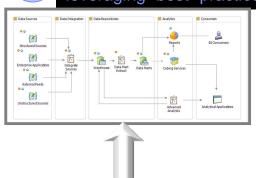
Document KPIs and associated business

terms 3

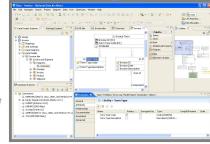


Identify where KPI's exist, relationship and level of quality

1 Start from consistent blueprint, leveraging "best" practices

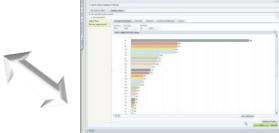






Create or Modify Data Model



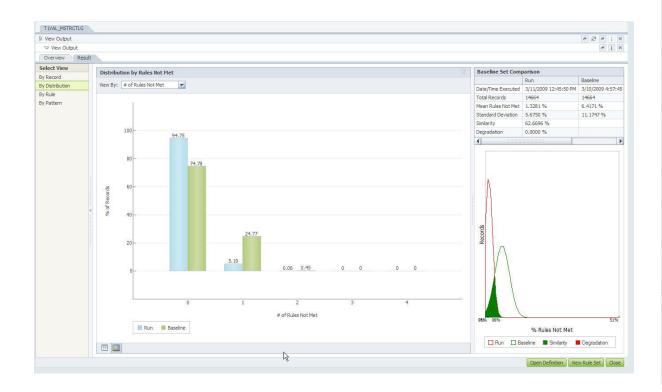


Assess & monitor your data quality over time

InfoSphere Information Analyzer



Analyze source data quality and monitor adherence to integration and quality rules



Requirements

- Perform data quality assessment
- Define business rules to monitor data quality
- Establish stewards for governance of data quality

Benefits

- Identify data quality issues early to reduce project risks
- Monitor quality metrics over time for compliance
- Create business confidence with trusted information



28 Sentence hours

Section 15 relatinghous hourses training

Section 15 relatinghous hourses

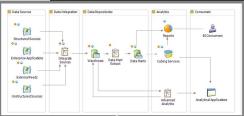
Section 15

Document KPIs and associated business terms

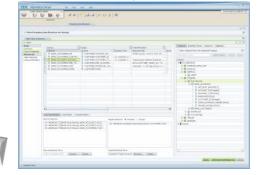


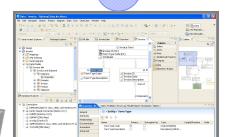
Identify where KPI's exist, relationship and level of quality

1 Start from consistent blueprint, leveraging "best" practices



Create new transformation rules & document





Create or Modify Data Model



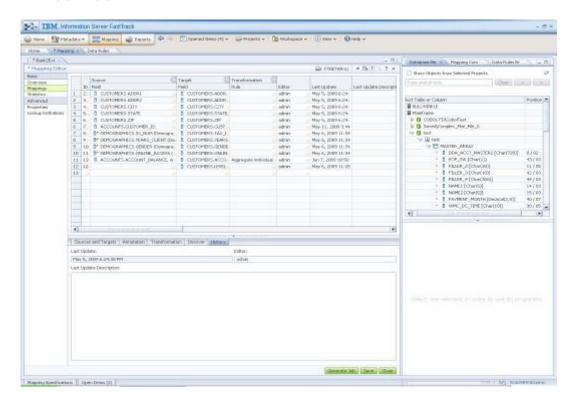
Assess & monitor your data quality over time

InfoSphere FastTrack



Capture Design Specifications and accelerate translation into data integration projects

FastTrack



Requirements

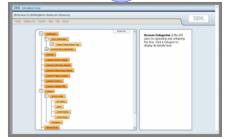
- Capture business requirements for source to target mappings
- Leverage source analysis and business vocabulary
- Generate candidate ETL jobs

Benefits

- Accelerate development of integration processes
- Centralized management of specifications
- Audit design decisions over time



2



Document KPIs and associated business terms

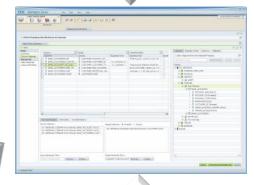


Identify where KPI's exist, relationship and level of quality

1 Start from consistent blueprint, leveraging "best" practices



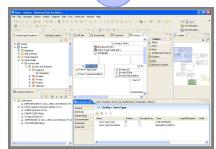
6 Create new transformation rules & document



7 Report & Govern on metadata assets



4



Create or Modify Data Model



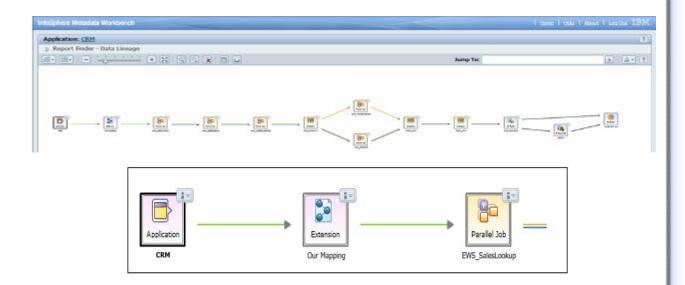


Assess & monitor your data quality over time

InfoSphere Metadata Workbench



Support information governance with traceability on data movement, modeling & BI applications



Requirements

- Handle Change
 Management processes with measured impact.
- Visualize and trace information flows across enterprise landscape
- Access and report on operational and design metadata

Benefits

- Deliver enterprise audit control information.
- Mediate system disruptions.
- Govern enterprise assets over time.
- Ensure effective collaboration with line of business stakeholders.



2



Document KPIs and associated business terms

erms 3

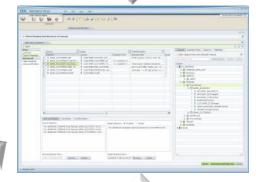


Identify where KPI's exist, relationship and level of quality

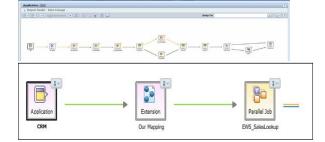
1 Start from consistent blueprint, leveraging "best" practices



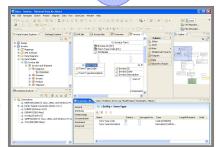
6 Create new transformation rules & document



7 Report & Govern on metadata assets



4



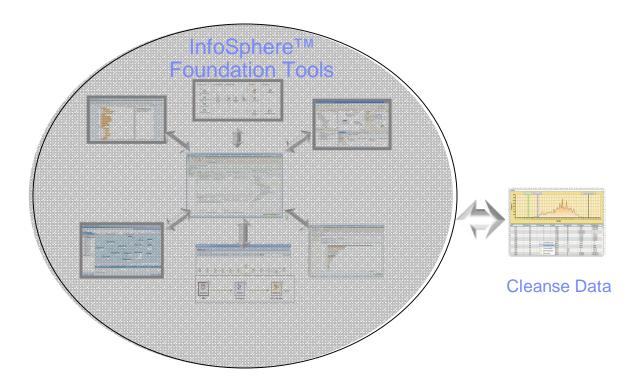
Create or Modify Data Model

5



Assess & monitor your data quality over time

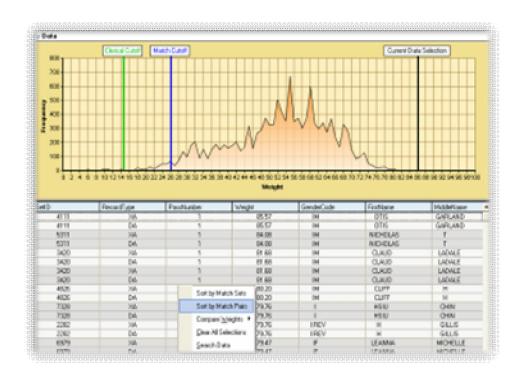




InfoSphere QualityStage



Standardize, cleanse and deduplicate data, ensuring a complete, accurate view of information



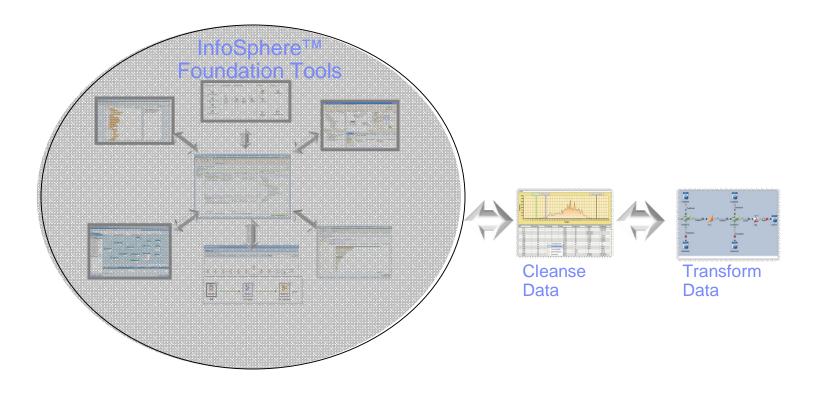
Requirements

- Resolution of data quality issues
- Standardization of data formats
- Cleanse data
- Manage duplicate data
- Enable ongoing quality

Benefits

- Removes duplicates
- Cross-references matching records
- Survives a single, complete record
- Validate and enriches data



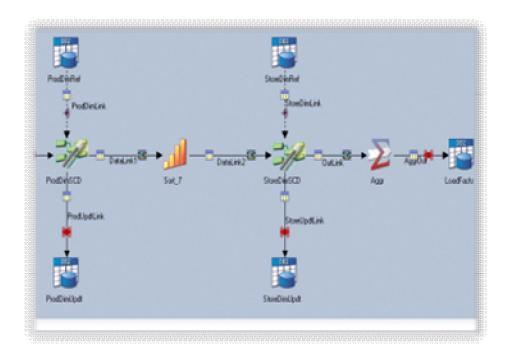


InfoSphere DataStage



DataStage

Integrate, transform and deliver data on demand across multiple sources and targets including databases and enterprise applications



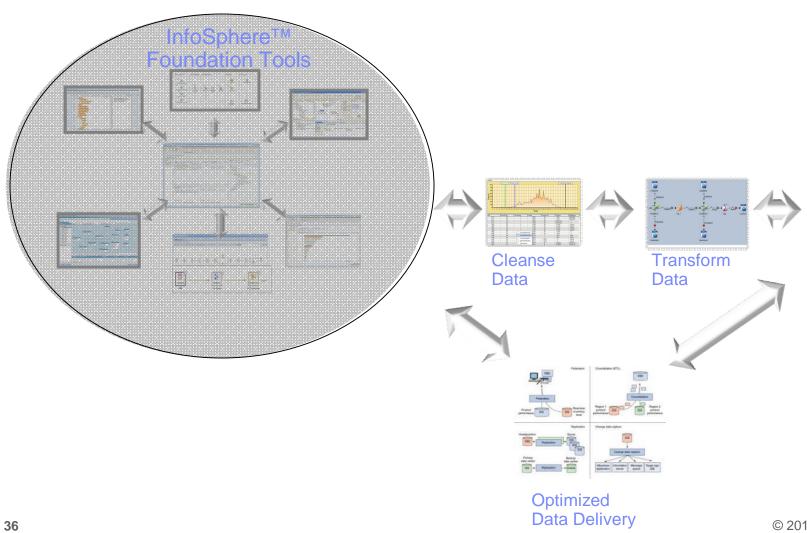
Requirements

- Integrate and transform multiple, complex, and disparate sources of information
- Demand for data is diverse – DW, MDM, Analytics, Applications, and real time

Benefits

- Transform and aggregate any volume of information
- Deliver data in batch or real time through visually designed logic
- Hundreds of built-in transformation functions
- Metadata-driven productivity, enabling collaboration

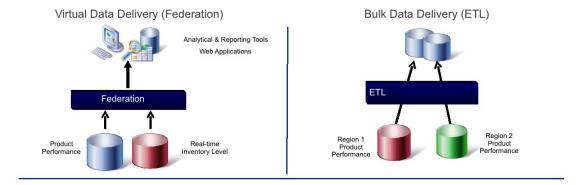


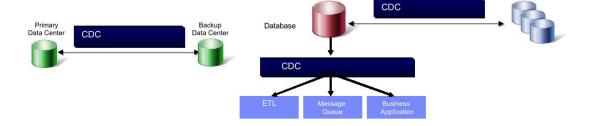


Optimized Data Integration



Manage and deliver information efficiently where the business demands require





Requirements

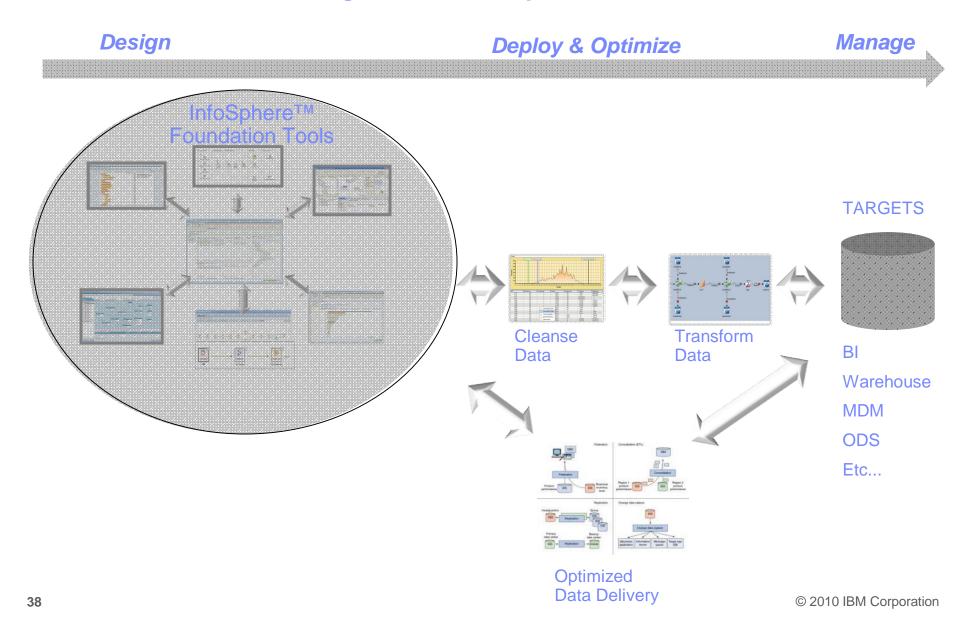
- Maintaining transactional integrity across systems.
- Manage data as it occurs
- Minimize impact to operational systems

Benefits

- Captures changes in data across a variety of systems when needed
- No impact to active systems
- Manage intra-day reporting and update needs
- Keep the business 'data' current



Integration Landscape





Thank you