



Intelligent Analytics and Optimization for Smarter Business





Deliver Trusted Information Whenever Needed

Andrew TC Lau Senior Sales Specialist, InfoSphere, IBM



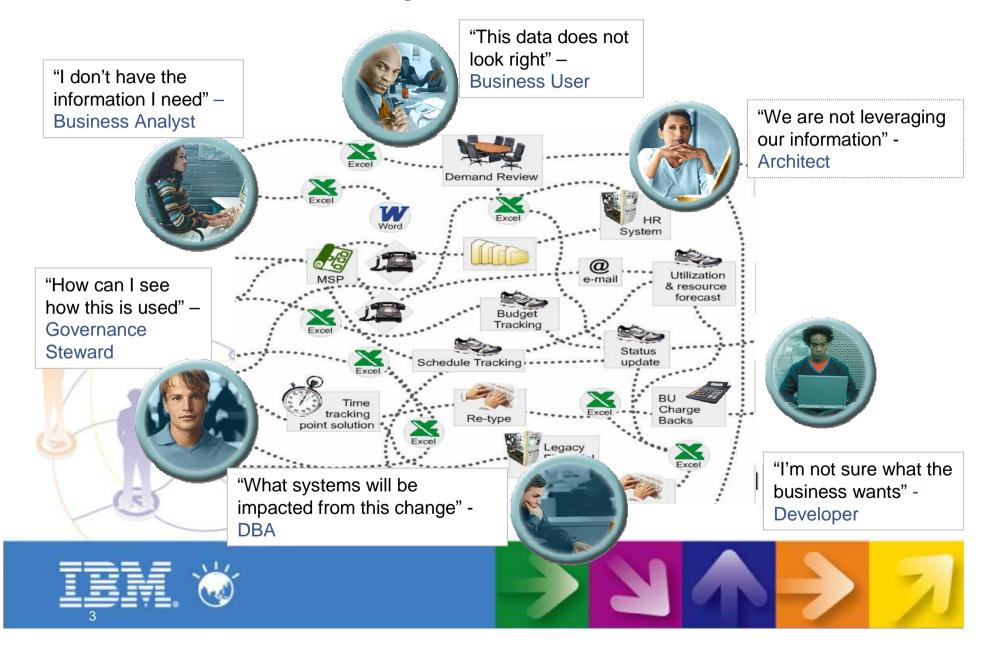








Pain Point: Understanding Core Information Assets





Who are Looking for Trusted Information?

Target Audience

- Data/Business Analysts
- Subject Matter Experts
- Architects
- Governance Stewards







Subject Matter Experts







Governance Stewards

What do these roles do today?

Trusted Information

- What
- Info
 - ·
 - •
 - •

- 1. Accurate
- 2. Complete
- 3. Insightful
- 4. Real Time

tools,

- & IT
- s not
- S

- Information Architecture
- Governance Initiatives
- Lacks audit trail no ongoing recerd Information
- Redundancy duplication of effort & storagemand 2010















Trusted Information Management Create, manage, govern and deliver trusted information

Get A single view of your business IBM InfoSphere MDM Server

Get your arms around your data IBM InfoSphere Foundation Tools

Design & Governance Tools

Information March 1985

Information Integration

Deliver better business intelligence faster

IBM InfoSphere Warehouse

InfoSphere software

Consolidate your application infrastructure IBM InfoSphere Information Server









InfoSphere Foundation Tools Convert information into a trusted strategic asset

Only IBM has
invested to provide
the breadth of
capabilities to
define and govern
your information...



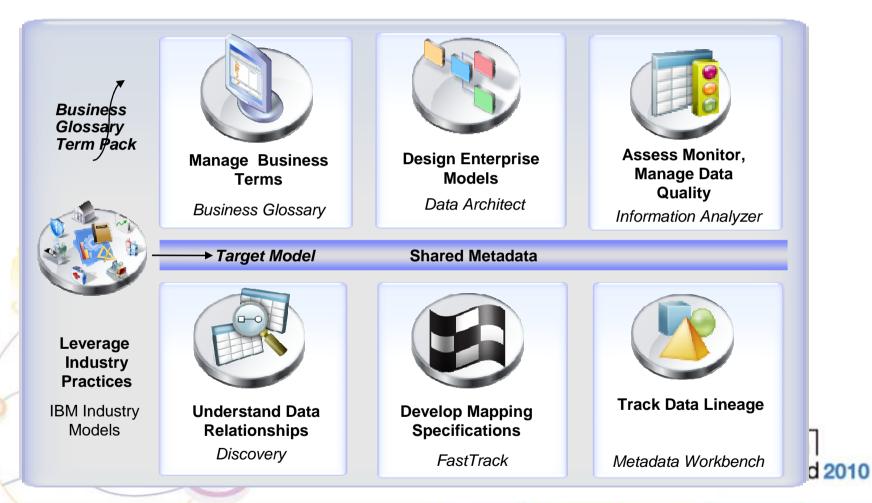
- Business Vocabulary
- Data Relationships
- Data Quality Compliance
- Data Models and Mapping
- Business Specification
 Rules
- Provenance of information
- **Discover** and understand the data across heterogeneous systems
- Design trusted information structures for business optimization IBM Information Demand 2010
- Govern that information over time







InfoSphere Foundation Tools

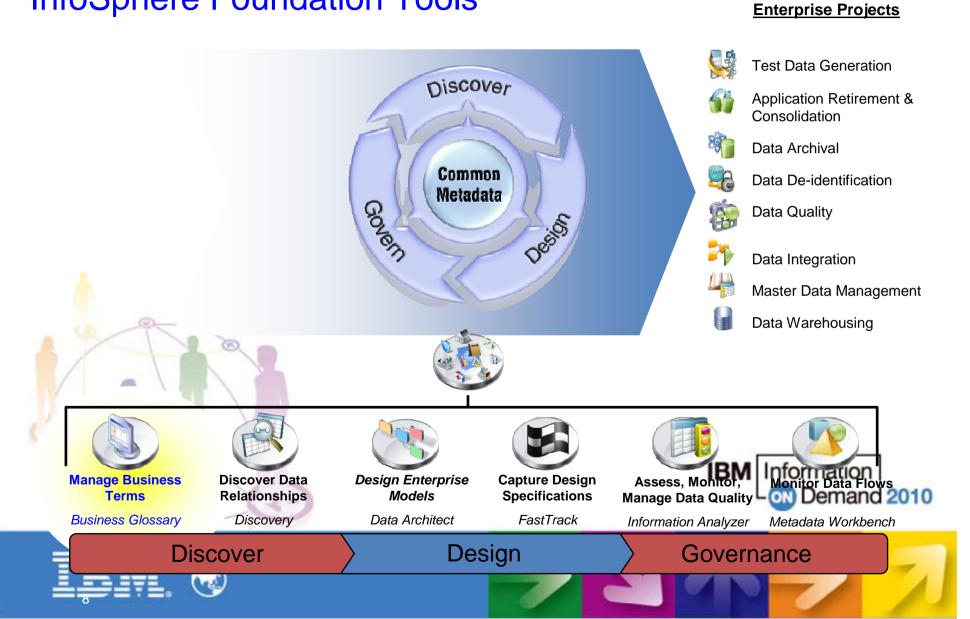








InfoSphere Foundation Tools





Business Context View

InfoSphere Business Glossary

- Starting point for designing information governance
- Web-based authoring, sharing & management of business metadata
- Enhanced collaboration
 - Aligns the goals of the business with the efforts of IT
 - Accelerate project delivery with information sharing
- Define relationship between business definitions and IT assets
- Drive information trust across enterprise applications
 - From any application, click and automatically search glossary
- Establish accountability
 - Creation of stewards and assignment of responsibilities







Create a Common Vocabulary

Database = DB2

Schema = NAACCT

Table = DLYTRANS

Column = TAXVL

data type = Decimal

(14,2)

Derivation: SUM(TRNTXAMT)





Category: Costs

Term: Tax Expense

Full Name: Tax to be paid on

Gross Income

"The expense due to taxes

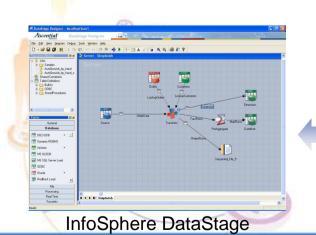
.....'

(John Walsh is responsible for updates. 90% reliable

source)

Status: CURRENT

Achieve a common vocabulary between business & technical users!



Shared Metadata Server & Repository





InfoSphere Business Glossary







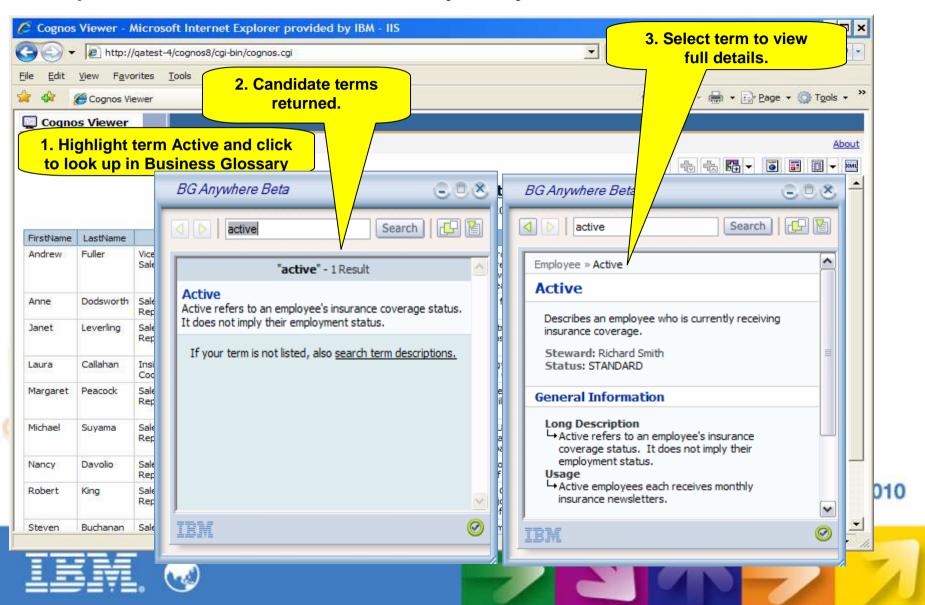






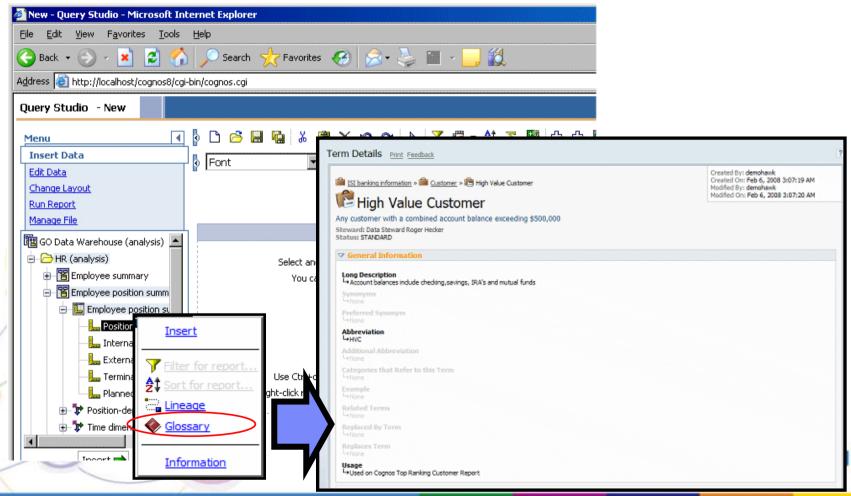


InfoSphere Business Glossary Anywhere





Cognos Integration with Glossary







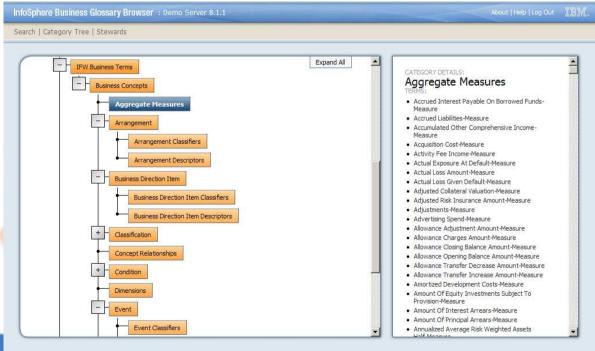


InfoSphere Business Glossary



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





InfoSphere Foundation Tools

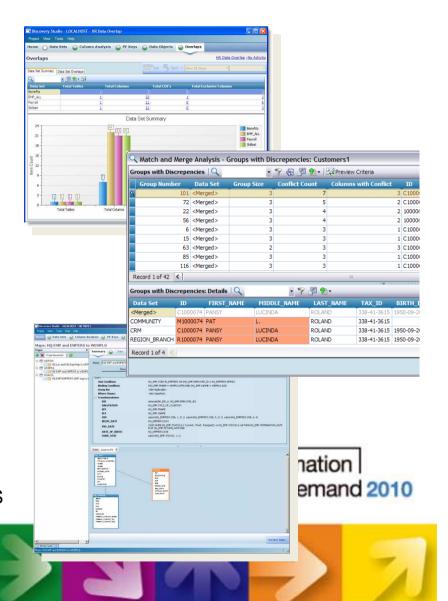




InfoSphere Discovery

- ✓ Leverage unique capabilities of Discovery for rapid development
 - Automate data relationship analysis and share with Information Analyzer for quality programs and Data Architect for enhanced enterprise modeling
 - Migrate off legacy applications easier discover transformation logic and generate replacement ETL jobs with FastTrack
 - Leverage prototype consolidation capabilities with DataStage/QualityStage – get it right the 1st time
 - Create business objects (logical units such as "customer") for test data management, data growth and application retirement projects with Optim portfolio
- ✓ Extended heterogeneous connectivity
 - DB2 zOS; IMS, VSAM, ADABAS, DataCom, IDMS, zOS flat files through Classic Federation Server



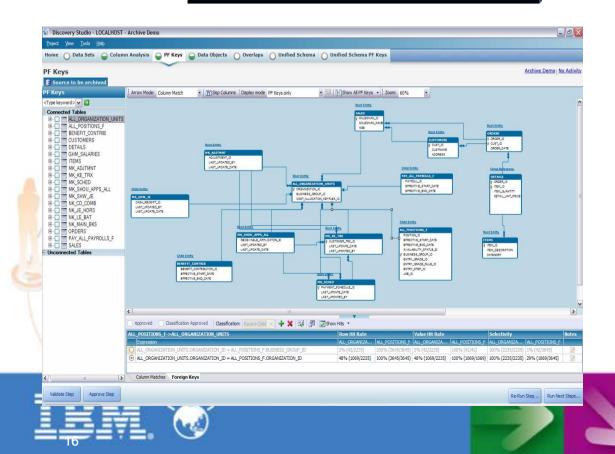




InfoSphere Discovery



Accelerate project deployment by automating discovery of your distributed data landscape



Requirements

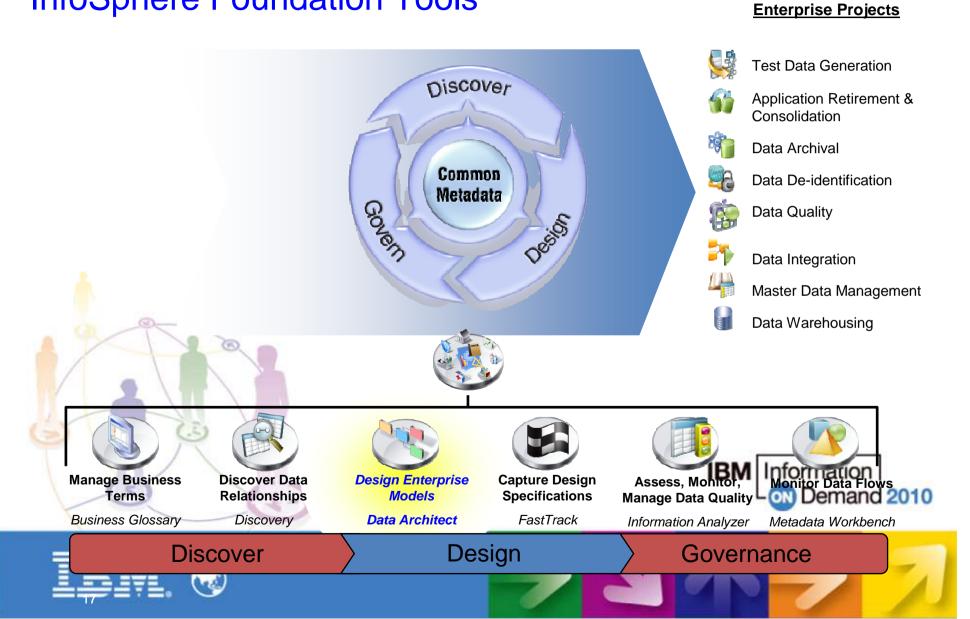
- Discover data transformation rules and heterogeneous relationships
- Identify hidden sensitive data for privacy
- Define business objects for archival, test data and other integration applications

Benefits

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



InfoSphere Foundation Tools



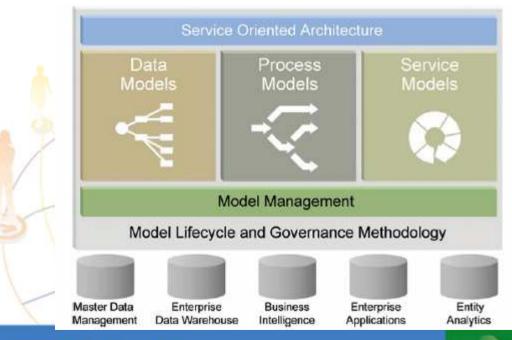


IBM Industry Models



IBM Industry Models

Leverage industry standard practices and processes, models and terminology to accelerate projects



Requirements

- Leverage industry standard practices and processes
- Populate Business Glossary with full industry vocabulary
- Accelerate data modeling activities for target systems

Benefits

- Accelerate your Information Agenda
- Optimize business around key indicators
- Streamline workflows with industry templates





IBM Industry Data Models Address the Following Business Areas



Banking

(Banking Data Warehouse)

- Profitability
- Relationship Marketing
- Risk Management
- Asset and Liability Mgmt
- Compliance

Financial Markets

(Financial Markets Data Warehouse)

- Risk Management
- Asset and Liability Mgmt
- Compliance

Health Plan

(Health Plan Data Warehouse)

- Claims
- Medical Management
- Provider and Network
- Sales, Marketing and Membership
- Financials

Insurance

(Insurance Information Warehouse)

- Customer centricity
- Claims
- Operational efficiency
- Underwriting; Pricing; Profitability
- Intermediary Performance
- Compliance
- Risk Management

Retail

(Retail Data Warehouse)

- Customer centricity
- Merchandising Management
- Store Operations & Product Mgmt
- Supply Chain Management
- Compliance

Telco

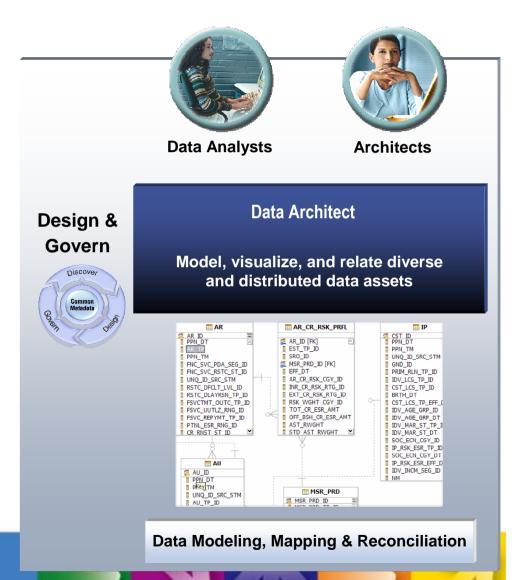
(Telecommunications Data Warehouse)

- Churn Management
- Relationship Mgmt & Segmentation
- Sales and Marketing
- Service Quality & Product Lifecycle
- Usage Profile



InfoSphere Data Architect

- Design information infrastructure modeling assets
 - Leverage profiling results from Information Analyzer
 - Create and optimize physical and logical data models
 - Design and deploy federated databases
- Define enterprise standards to govern data models
 - Analyze models for conformance
 - Compare and synchronize across models
- Enhance collaboration
 - Create glossary models and exchange with Business Glossary
 - SQL & XML generation capabilities





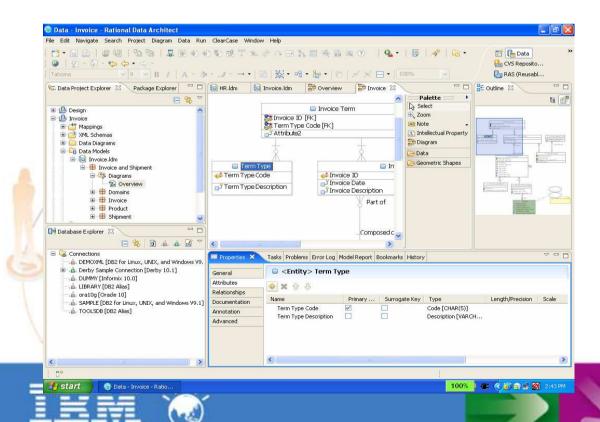


InfoSphere Data Architect



Data Architect

Model, visualize, and relate diverse and distributed data assets



Requirements

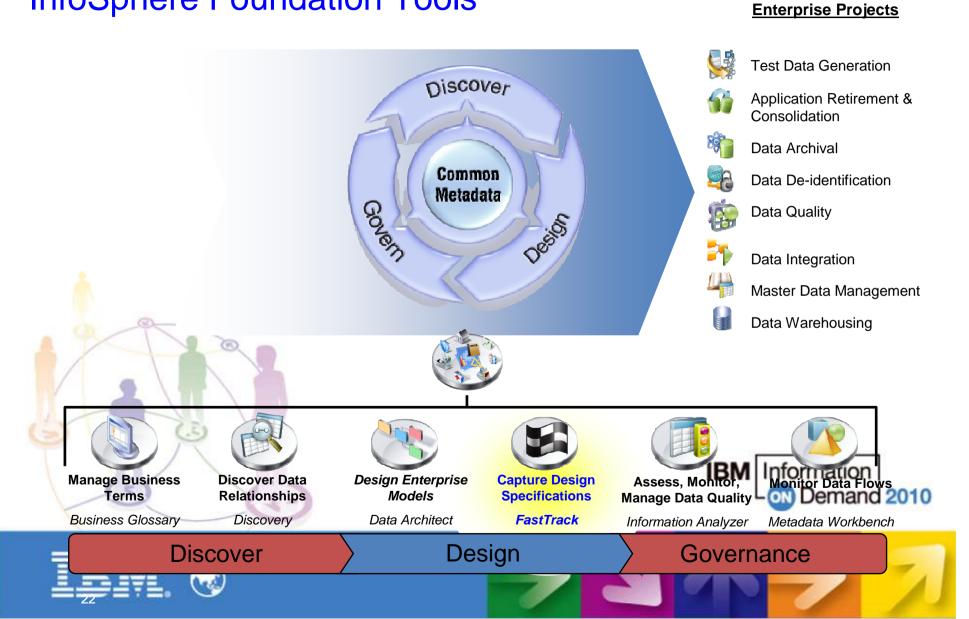
- Design and manage enterprise models
- Enforce model conformance to enterprise standards
- Leverage industry data models for best practices

Benefits

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



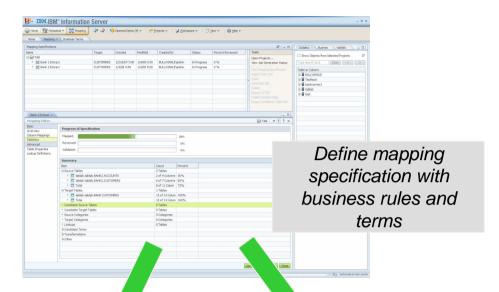
InfoSphere Foundation Tools





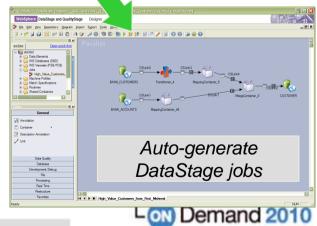
InfoSphere FastTrack

- Single managed infrastructure for data integration projects to track requirements to deployment
- Create required transformation rules for source-to-target mappings
- Define and link business terms to physical structures
- Generate DataStage jobs
- Generate historical documentation for tracking





and tracking





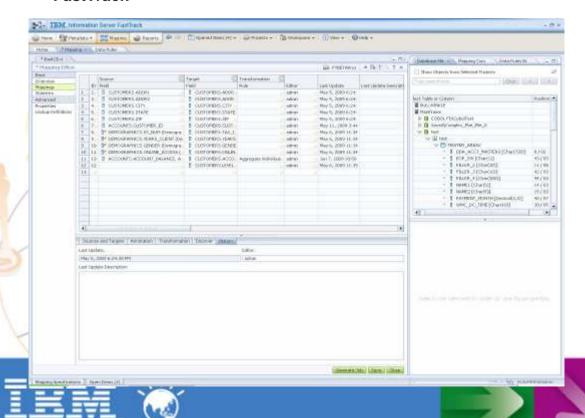


InfoSphere FastTrack



Capture Design Specifications and accelerate translation into data integration projects

FastTrack



Requirements

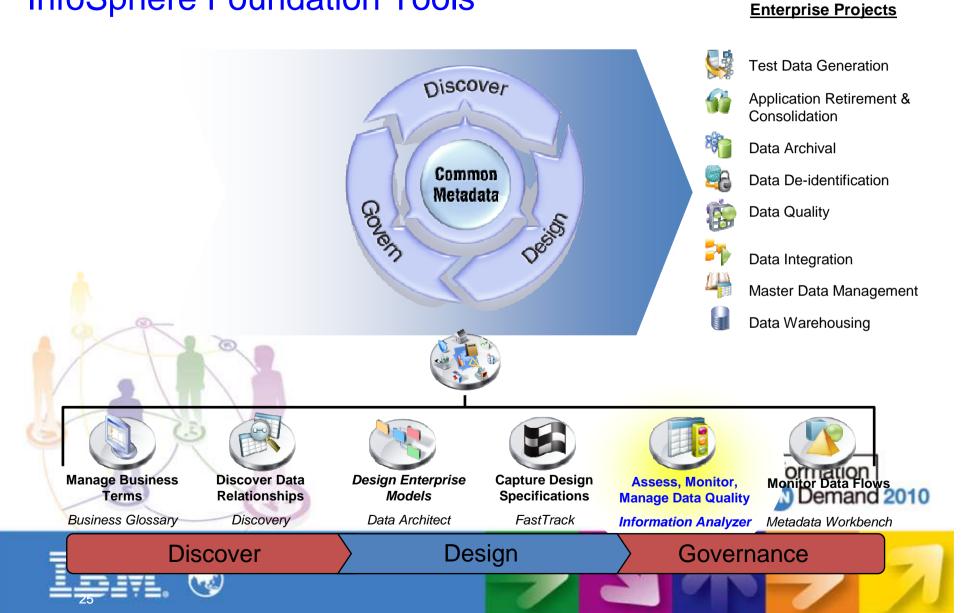
- Capture business requirements for source to target mappings
- Leverage source analysis and business vocabulary
- Generate candidate ETL jobs

Benefits

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



InfoSphere Foundation Tools





InfoSphere Information Analyzer

- In-depth analysis of heterogeneous information – IBM or non-IBM sources
 - Data-centric analysis of databases, files and enterprise applications for content, quality, and structure
 - Secure, detailed profiling of fields, and relationship analysis across fields and across sources
- On-going measurement and baseline reporting of information quality
- Know where information is managed across systems
 - Capture fitness of sources and reengineering requirements for downstream use



Subject Matter Experts



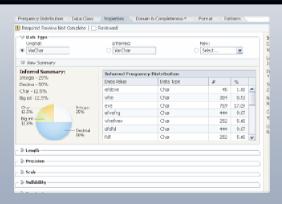
Business & Data Analysts

Discover & Govern



InfoSphere Information Analyzer

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



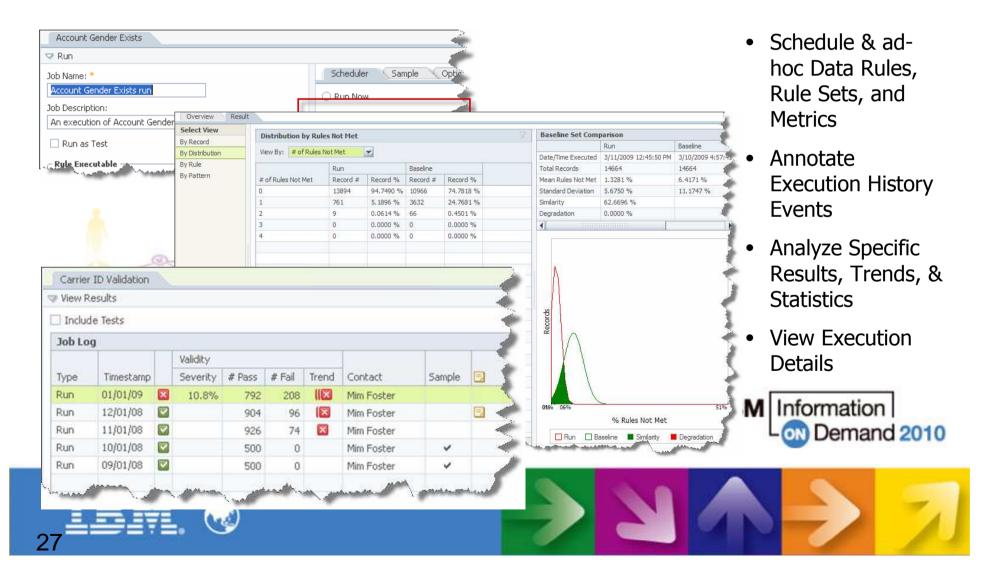
Physical Understanding





Monitor Results over Time

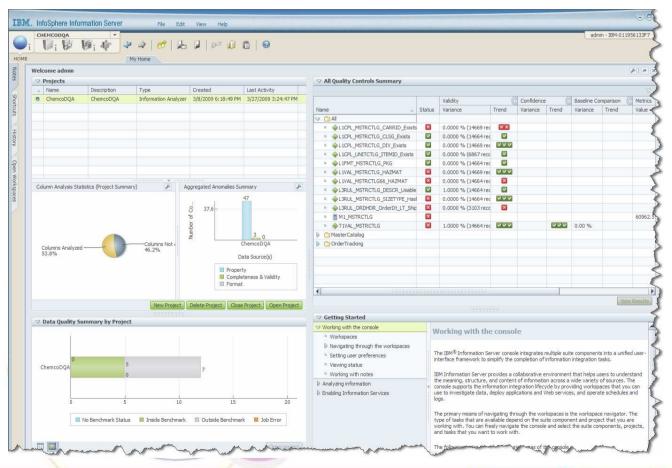
Data Quality Monitoring – scheduled processing





View Summarized Results

Dashboard Views & Alerts; Quality Reports



- Customize Data Quality Displays and Scorecards by project
- Organize by results by userdefined folders
- Display Standard Charts & Trends for Ongoing Views
- Track Analysis
 Status, Data
 Trends,
 Variances over
 Benchmarks, ...
- View Online Documentation & Screen Information





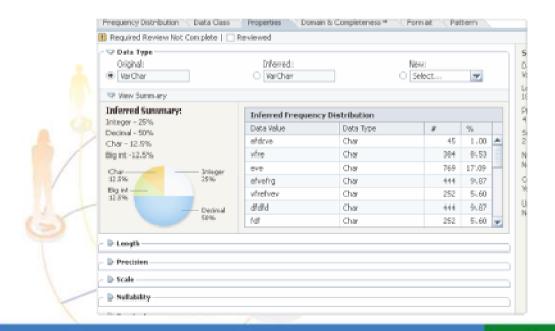




InfoSphere Information Analyzer



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

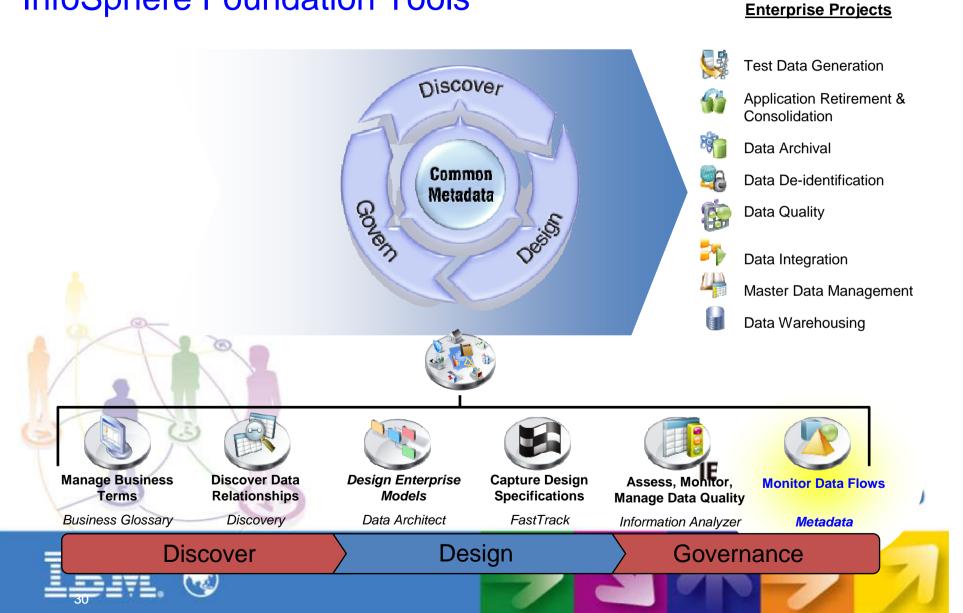
Benefits

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





InfoSphere Foundation Tools





InfoSphere Metadata Workbench

- Understand your end-to-end information infrastructure
- Proactively manage and administer your information infrastructure
 - Web-based exploration of metadata relationships – InfoSphere, modeling and BI applications
 - Explore and analyze both graphically and textually
 - Perform searches and customized queries
- Assess and mitigate change management risk
 - Assess dependencies across
 InfoSphere and 3rd party tools
 - Trace data lineage of modeling,
 BI reports and InfoSphere objects



Subject Matter Experts



Governance Stewards



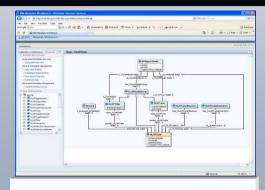
Architects

Design & Govern



InfoSphere Metadata Workbench

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

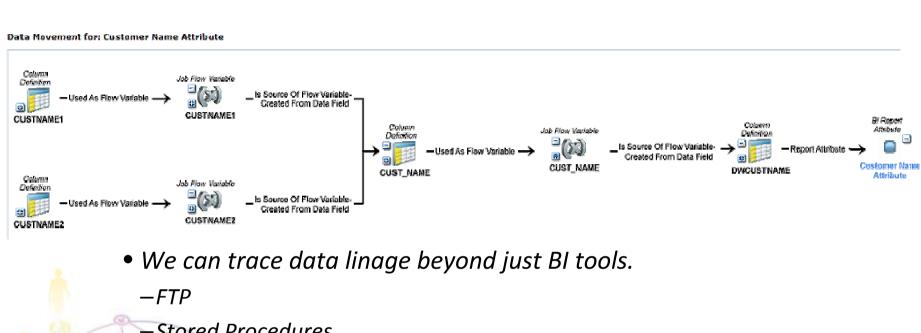


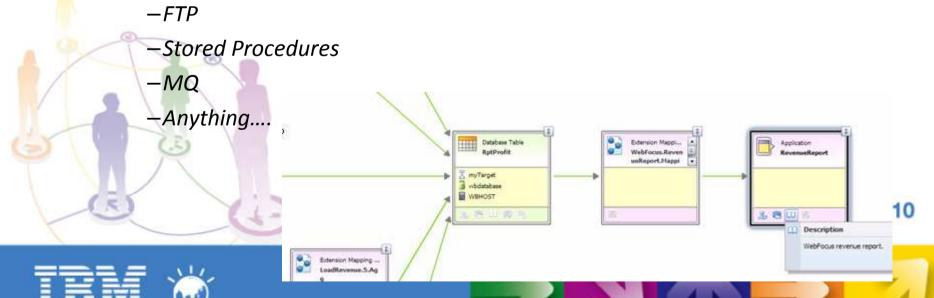
Impact Analysis & Lineage





Where does a Field of Data in this Report Come From?

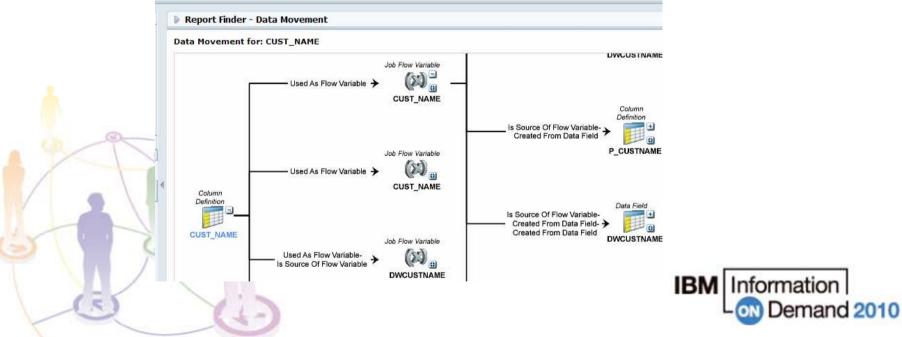






Where Happens if I Change this Column?

- Show complete change impact in graphical or list form
- Includes impact on reports in BI tools
- Visually navigate through impacted objects across tools
- Allows impact analysis on any object type







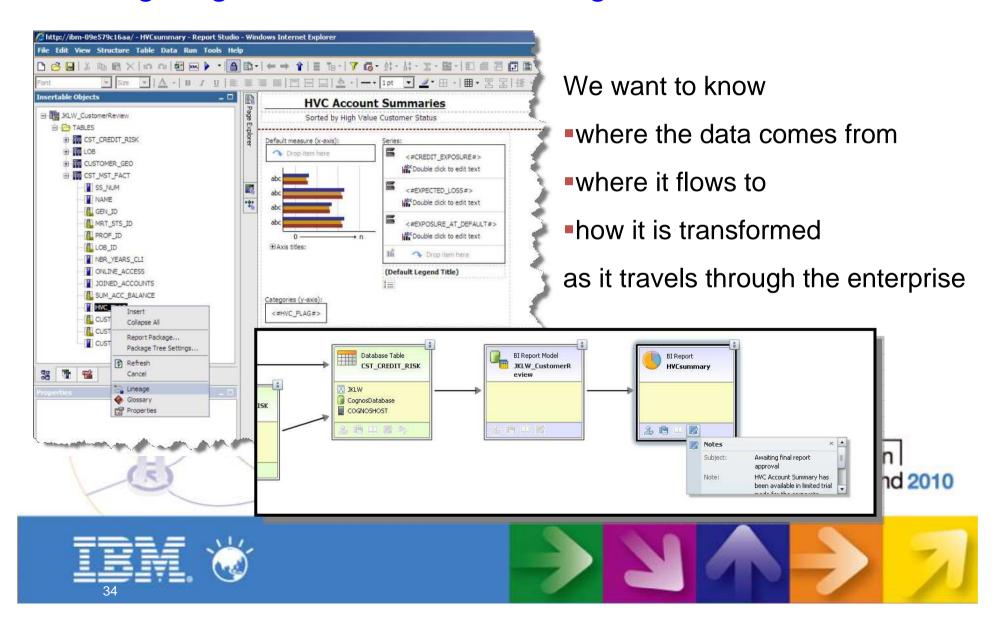








Using Cognos to trace Data Lineage

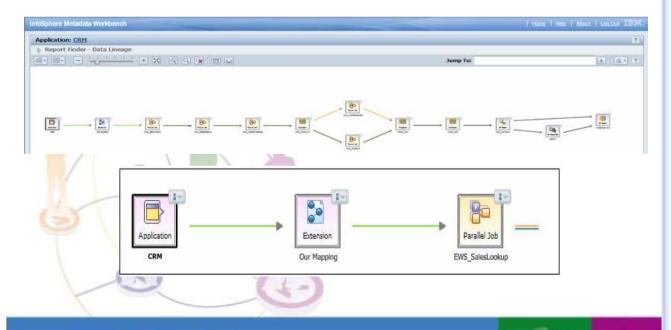




InfoSphere Metadata Workbench



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



Requirements

- Understand the impact of making changes to information environment
- Visualize and trace information flows across enterprise landscape
- Access and report on operational metadata

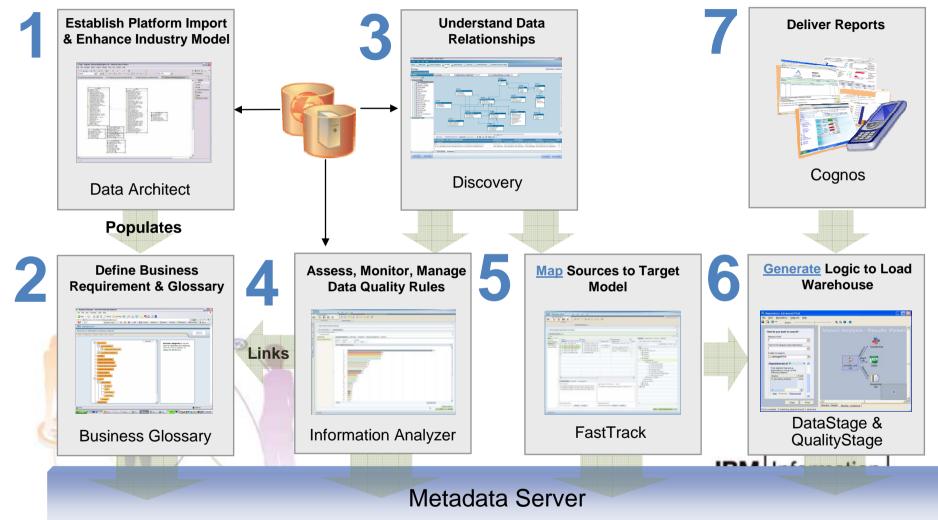
Benefits

- Avoid system disruptions
- Provide audit information for data governance
- Build trust with LOB users





Integrates Foundation Tools & Beyond



Simplification & Content: reduces project time, risk and cost!



Your Choice...

Point Products

? + INFORMATICA + Siperian + ORACLE + Business Objects + ?

Models Cleansing ETL MDM Warehouse BI Mashups

Integrated Platform

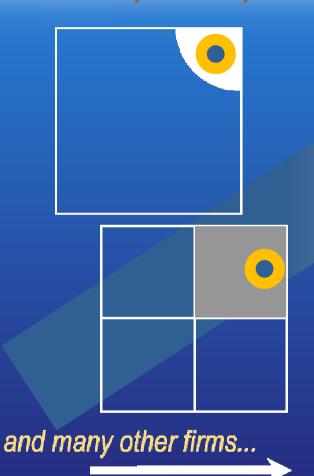






Leading the way

Industry Analysts Rank IBM as Leaders



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

InfoSphere



Thank You!











