



Information Management software

# The IBM InfoSphere Suite

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## We support activities at every stage of the life cycle, the end to end process and governance

Design Data	Acquire	Transform	Quality Assure	Store/Process	Metadata / MDM	Publish		
Data Governance								

- Activities
- Investigation
- Requirements gathering
- Design time
  - Investigate best practice
  - 'Think Time' to consider alternatives
  - · Collaboration and gaining agreement
  - Architect solution
- Develop
- Test
- Design Data Structures
  - · Logical / Physical
  - Agree
  - Create definition
  - Add
  - Modify
- Changing and maintaining

- Acquire
- · Profile and understand
  - Agree format, content and meaning
- Transform
- Quality Assure / cleanse
- Publish, Access and maintain metadata
- Establish and Maintain Master Data
- Load and Store
- Process
  - Analyse,
  - Query
  - Update
- Backup and recover
- · Capacity plan and manage performance
- · Archive and retire
- Publish and Distribute results



# IBM speeds the overall process to maximise business benefits. Accelerating time to results, reducing time, effort and cost

	Accelerated Life Cycle Time Scales												
			<i>50%</i>	<i>50%</i>	50%			%	<i>50%</i>	<b>50</b> %	6		
D	Predefined data models  Proven in the field, less risk, less design time  Support for fast customisation  Supports changing	Acquire  Data Acquisition  Support for interfaces to a common s/w  100's of provedata acquisitic connectors  SOA support  Support for common pacle.g. Peopleso	Tra In III (and in III) (and in		Da and ve built ons	Quality Assure S			ss and ing ouse t for	Metadata / MDM  Metadata  Comprehensive support for business and technical data  Business Glossary mechanism for publishing metadata  Dedicated	Pi	Publish  Presentation  Dashboarding  Scorecarding  Interfaces to all common s/w h/w  Predefined templates and frameworks (blueprints)  Mobile support	
	hierarchies  Supprange and resyste  Feder multi Chan Capto	<ul> <li>Support for la range of both and non IBM systems</li> <li>Federated acc multiple system</li> <li>Change Data Capture Orac MicroSoft etc</li> </ul>	rge IBM I I I Reess Ems I	Parallel processing to avoid processing bottlenecks  Ease of re-use of components	sing •	Sophisticate pattern mate Numeric and numeric data Quality repo Support for correction processes	ching indicated in the second	o M m s u o C D	fficient Vorkload nanagemen upporting i sers comprehens tata mining DLAP suppo	many sive and ort	metadata server support  Master Data  Predefined master data model  Support for change  Dedicated server		Collaboration Easy report definition, generation Access to multiple heterogeneous sources



# Lower 'Time to Value' means greater overall benefit

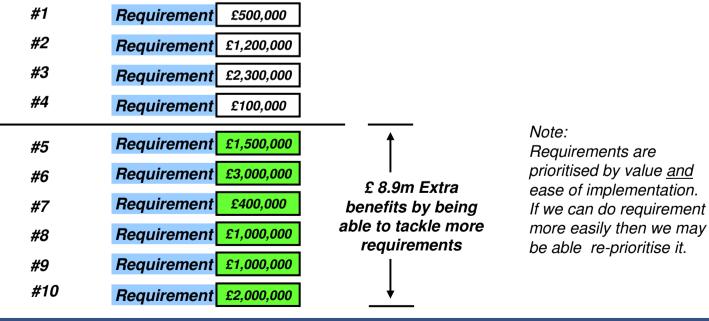
Requirement

**Priority** 

Requirement worth £200,000 per month brought in 5 months earlier



Meeting more requirements in the same time means more benefits



Benefit

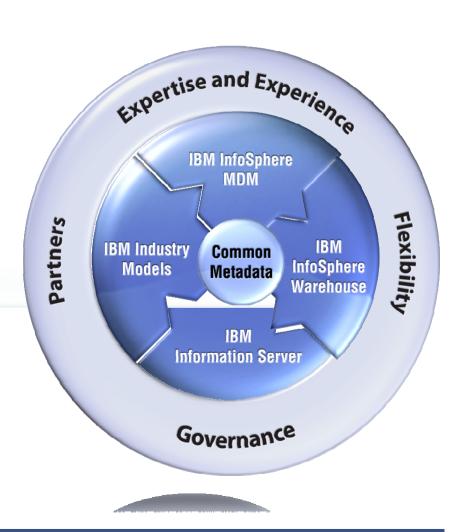


# Typical savings through use of Information Server

- Industry and experience reflects that business as usual IT Projects:
  - Can take up to 10x as long with individual tooling
- Unified Information Server Platform Benefits:

<ul> <li>Decreased risk by</li> </ul>	53%
<ul> <li>Improved business alignment</li> </ul>	83%
<ul> <li>Improve time to value by</li> </ul>	75%
<ul> <li>Reduce project staffing by</li> </ul>	90%

Source: Customer Case Studies, Industry Analyst Reports





## Time and effort savings using InfoSphere Balanced Warehouse

- Refore Balanced Warehouse
  - Design / 4
  - Build / 6
  - Functional Test
  - Performance Test 3
  - Tune \ 3
  - UAT 1
  - Total Weeks 20

- With Balanced Warehouse
  - <u>Install</u> 1 day

- Corresponding reduction in overall effort and risk
- Concentrate on business goals
- Takes machine issues 'off the critical path'



## InfoSphere Portfolio

#### **Industry Frameworks**

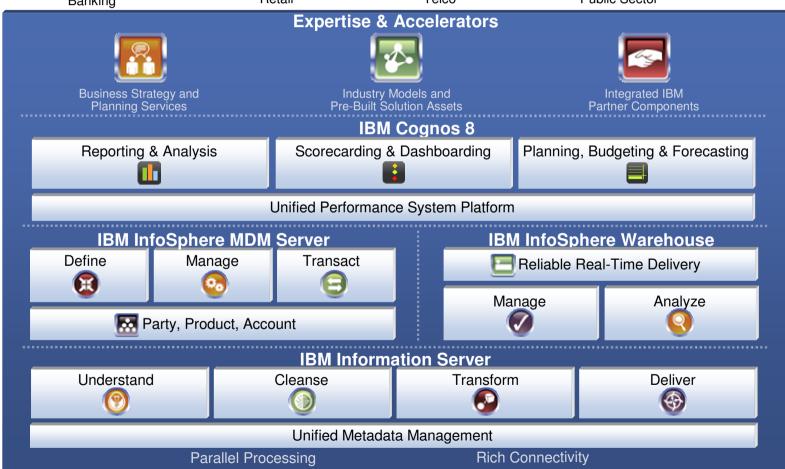








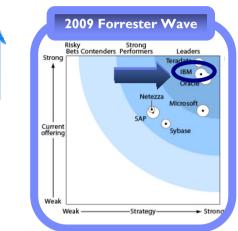




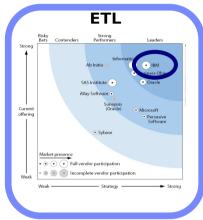


# **Analysts Recognize IBM Leadership**

The Only Recognized Best Of Breed Portfolio Across Entire Information Value Chain





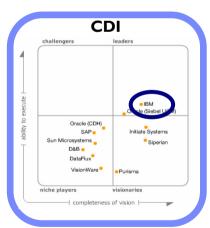












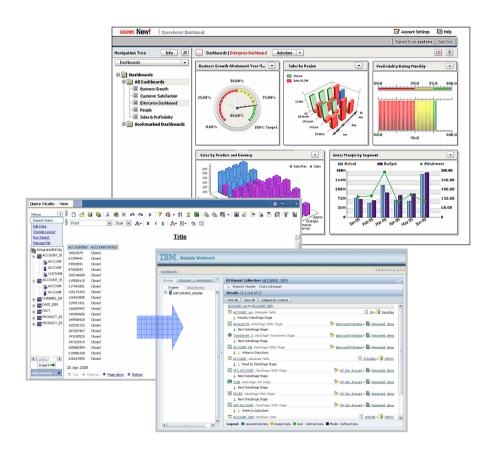




Reporting, Analysis, Dashboards, Scorecards We use Cognos 8 to illustrate a simple Fraud Reporting Scenario

Publish				
Model				
MDM	tad			
CDC	Me			
S				

- 'Events' are reported
- Fraud Investigation unit can analyse suspicious events
- At High or Low level
  - Drill Down into detail as necessary
- Data Definitions available in Metadata / Glossary
  - E.g. for Fraud Types see dictionary
- We'll track through simple example and show what kind of support is being given under the surface



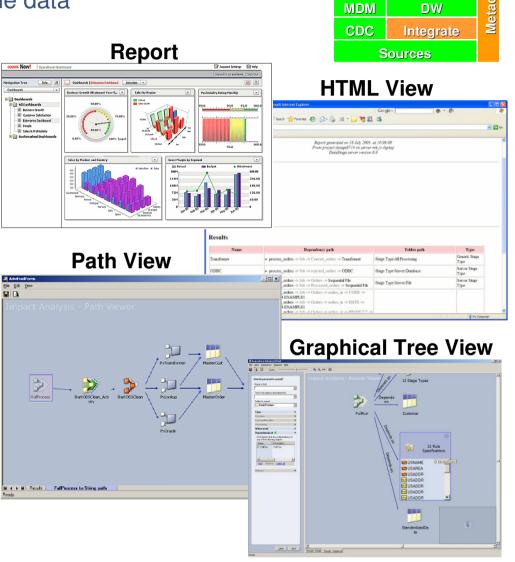


Publish

Model

Before I can act I need to know "Can I Trust the Data?". Here we see how we can know what is behind the data

- Understand the Meaning of data Business Glossary
- Looking at the Lineage of data
  - Where it came from?
  - What's been done to it?
- We find a 'Job abort'
  - From <u>Operational</u> metadata
- Ops issue, or suspicious ?
- Able to make informed choice about trusting this data
- Can also be confident of all aspects of the Data Quality
- Primary components supply metadata: Publish, Metadata, Integrate
- All components contribute input

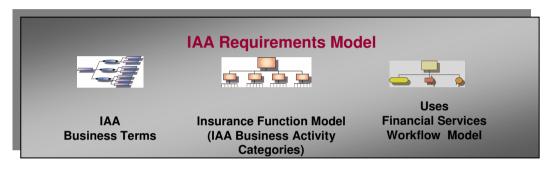


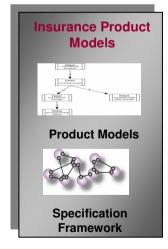


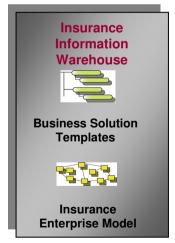
All analytical systems need to organise the data to be reported upon. We have multiple *Enterprise* Data Models available

Publish				
Model				
MDM	Metad			
CDC Integrate				
Sources				

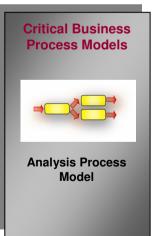
- Pre-built Data Models
- Multiple Industries
  - Insurance
  - Banking
  - Retail
  - Telco
  - Healthcare
- Reduces
  - Risk, Time, Effort, Cost
- Built in support for common industry issues
  - Solvency II
  - SOX
  - Basel II
  - IAS





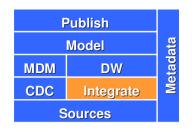








We need to obtain, understand, transform and quality assure data, and use these capabilities in concert; this is the purpose of Information Server



#### **IBM Information Server**

#### **Unified Deployment**

#### Collaborate



Facillitate, collaborate, Accelerate take-on of data

#### **Understand**



Discover, model, and govern information structure and content

#### Cleanse



Standardize, merge, and correct information

#### **Transform**



Combine and restructure information for new uses

#### **Deliver**



Synchronize, virtualize and move information for in-line delivery

#### **Unified Metadata Management**

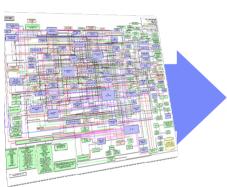
**Parallel Processing** 

Rich Connectivity to Applications, Data, and Content



Bringing IT and Business Together. FastTrack, part of Information Server helps IT and Business personnel collaborate and speeds the process of using new data







ata Integration

InfoSphere FastTrack



Data



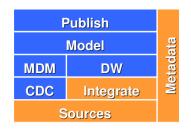


- **Captures business** requirements
- **Generates** integration logic

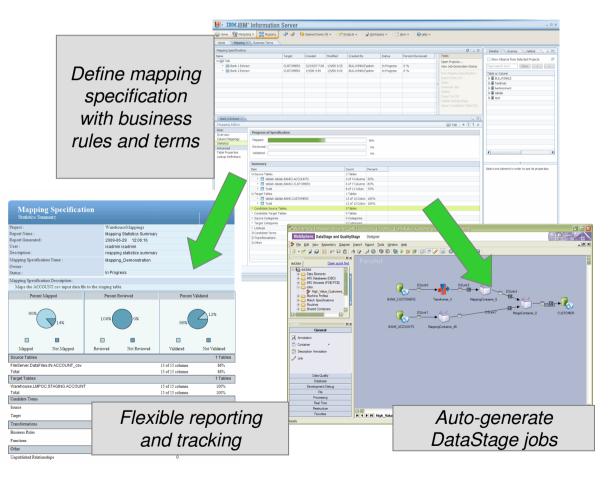
- Help with migrating new data into the system
- **Uses Business** Terminology and Data Model definitions
- **Identify** candidate source to target mappings
- **Component used: Information Server FastTrack**



Once FastTrack has helped IT and Business personnel collaborate in understanding and defining new data it can *automatically generate* the jobs needed to extract, transform and load it into the system



- Central Shared Repository
- 'Excel-like' interface
- Automatic generation of transformation jobs
- Direct access to metadata
- Complex transforms possible
- Ideal project progress tracking tool
- High Volumes of data can be supported
- Common package support, SAP, Oracle, Infor etc
- Benefits
  - Much quicker > 2x
  - Less effort 50%
  - Reduced errors
  - Reduced risk





The IBM Balanced Warehouse Appliance. The central repository for all data within the InfoSphere Data Architecture.

Publish

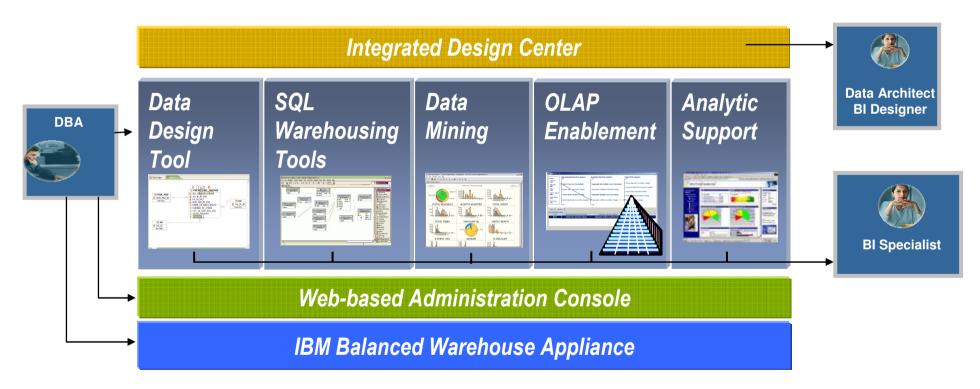
Model

MDM DW

CDC Integrate

Sources

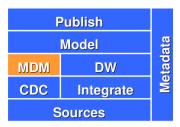
Scalable, Powerful, Integrated Tooling, Low Cost



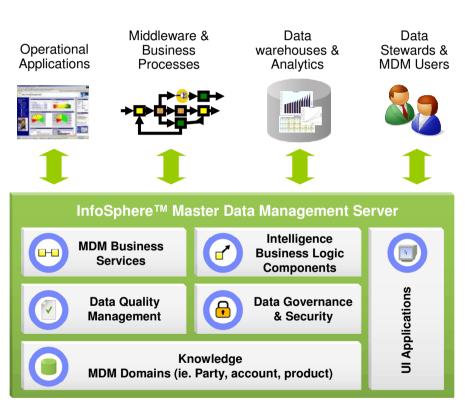
- Tools Accessible from Cognos
  - Data Design
  - **Data Mining** (segmentation, market basket analysis etc)
  - Cubing Services, MQ Integration, Federated Access\*
- Data Warehouse Appliance
  - Scalable parallel processing, 250Gb to 100's of Tb
  - Ease of design, install and administration
  - Market leading pricing



# IBM InfoSphere Master Data Management



- The first multi-domain, multi-function MDM capability in the market
- First Multi-Role and Responsibility Based
  - User Interface Generator
- Packaged to address all types of MDM implementations
  - From small entry-level projects through to strategic transaction-hub deployments
  - Allows clients to grow as required by implementing existing functionality
  - Significantly lowers client risk and time/cost to implement
- SOA Library 800 pre-packaged business services
  - Significant out of the box product functionality
  - Reduces total cost of ownership
- Performance & scalability

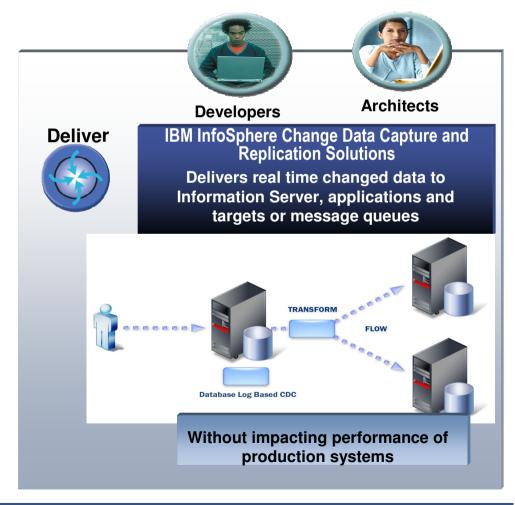




InfoSphere CDC (Change Data Capture) enables the real time capture of data with low impact on existing infrastructure from multiple Databases & Hardware platforms

Publish				
Model				
MDM DW				
CDC Integrate				
Sources				

- Captures changes real-time DATA direct from the database logs
- Supports natively DB2/SQL/Oracle/Informix & Sybase
- Low resource impact on existing hardware
- NO Application impact
- REAL time mirroring or mix and match to suit the business needs
- VERY short Implementation projects achieving beneficial ROI's
- FULLY integrated into InfoSphere portfolio and metadata
- Simple way of making data available to DW, MDM, Information Server, Cognos – with full metadata
- Speed of Implementation
  - Install in an hour
  - Choose data and be receiving it within hours
  - Project 2-10 days





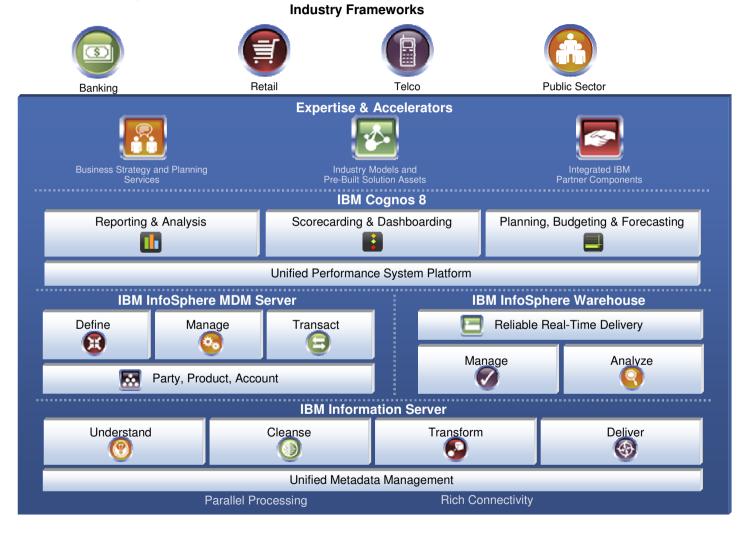
## Example Customer Benefits Achieved with CDC

- Cost savings of \$400,000, reduced the monthly and quarterly financial reporting cycle by 80%
- Improved on-time delivery of orders by more than 10% and the number of late orders has dropped by 80%.
- Deliver sales analysis up to 400% faster and with more confidence.
- Reduced batch window by 70%.
- By enabling a separate reporting system improved both operations and reporting, increasing their bottom line and improving customer service.
- One customer reduced its overall IT spending by nearly 20% by implementing InfoSphere CDC



## In summary, InfoSphere provides Infrastructure support for all of the common information problems in an integrated stack







## Comments: Cognos + IBM

"Cognos users would get access to a much more solid infrastructure, middleware and data service. IBM would get a well-branded BI and performance management product set"

"The combination of IBM Information Server, MDM Server and the DB2 Warehouse infrastructure as a foundation for Cognos and its analytical and visualization layer is a strong entry in the market"

"Through the acquisition, the product sets of the two vendors show only insignificant overlap and constitute a good fit"

"In the BI and performance management markets, IBM Software Group is now going into a head-to-head battle with SAP and Oracle, almost leapfrogging over them"

"IBM's data management infrastructure is superior to Oracle's and SAP's offerings, and more importantly, IBM does not need to integrate Cognos with any other BI platform"

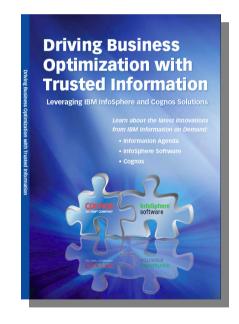
IBM Aims for the Business Intelligence Endgame With Cognos Andreas Bitterer, David W. Cearley
Gartner Research
16 November 2007 ID Number: G00153478



### Following this session

- We're happy to talk more about the InfoSphere stack – come and see us afterwards
- Re-runs of this demo
- Plus the 'JK Insurance' Flash Demo
  - JK Financial assesses credit risk exposure and seamlessly integrate various business and IT functions.
  - http://www-01.ibm.com/software/info/television/index.jsp?cat=clients\_software\_ info&media=video&item=xml/L135107Q57342C89.xml
- Also copies of the Cognos / InfoSphere Book
  - 100 pages
  - The complete end to end story
  - Easy to read and for reference great 'train and plane' reading







## UK Information On Demand Conference – 17th September

http://www-01.ibm.com/software/uk/itsolutions/information-management/events/





## InfoSphere Warehouse Introduction Proof of Technology

Dates: 16 July, 23 September, 7 October, 10 November, 9 December 2009

Time: 9:30 AM – 4:30 PM

Location: IBM Hursley, Hampshire

Significant business benefit is obtained from providing timely and relevant data analysis.

Come and see how InfoSphere Warehouse enables you to achieve more

benefits sooner thus increasing your return on investment.

Proof of Technology days are classroom based events where you can gain practical experience of IBM technology and how it can WALD XRUND?

Attend this event to learn how you can use InfoSphere Warehouse to:

- See how the tooling enables you to reduce the time to value for warehousing projects
- Design and deploy warehouse solutions via a single design interface
- Utilise the built-in physical data modelling capabilities
- Use the powerful data transformation capabilities to pull data from multiple sources into the warehouse
- Design and build OLAP reporting structures for your users providing enhanced sharing performance and scalability
- Understand how to use the built-in data mining and text analytics features that enable you to get more value out of your data

Who Should Attend?

**Business Analysts and Decision makers** 

**Data Warehouse and Business Intelligence developers** 

**Data Architects and Analysts** 

**Database and Data Warehouse Administrators.** 

Agenda

An introduction to data warehousing and overview of InfoSphere Warehouse

Hands on exercises

Demonstration showing how to discover hidden facts in your business

Other considerations and tools

THERE'S A BETTER WAY TO FIND TRUSTED INFORMATION.





Publish				
Model				
MDM	tadata			
CDC	Mei			
S				

# Thank You