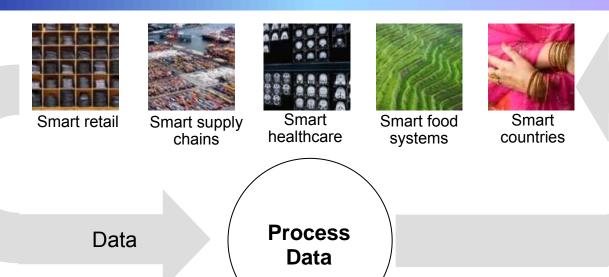
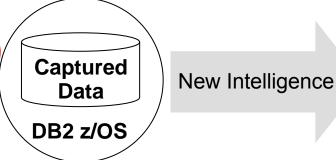
System z – A Smart System For A Smarter Planet

Modern Business Analytics

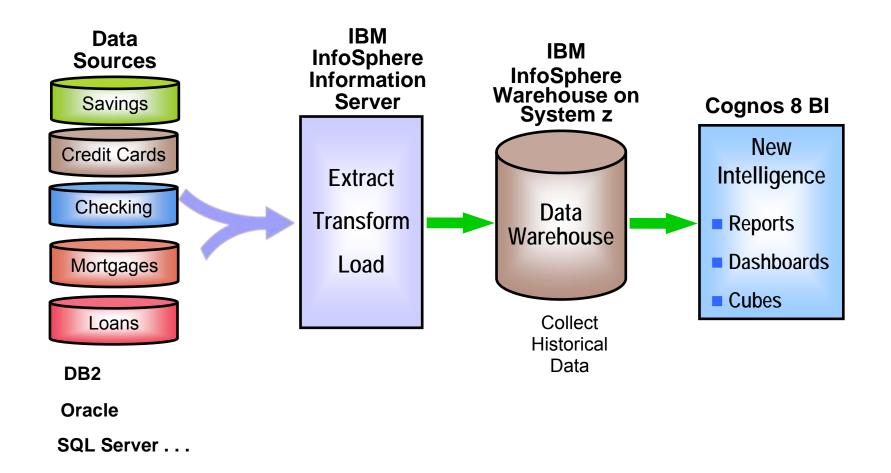
Data Plays A Key Role In Smarter Planet Solutions



- Process operational data at increasing rates
- Perform sophisticated analysis on massive amounts of historical data in a data warehouse



InfoSphere Information Server Can Load Your Data Warehouse



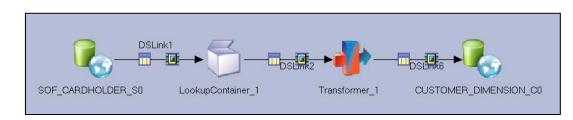
InfoSphere FastTrack Creates Data Maps And Specifications For Your ETL Jobs

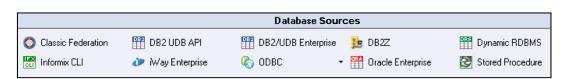
- Create simplified data maps and transformations using drag and drop
 - Automatically discover source and target columns
 - Uses database introspection and Web 2.0-style tagging
 - Use business terms to accurately match source to target
- Data analysts and developers share project specifications
 - Collaboration and reuse improve productivity
 - Use metadata common to all Information Server tools
 - Standard formats and centralized management for governance
 - Synchronize work across global teams
- Generate ETL code directly from job specifications
 - Reduces costs and errors in ETL job development

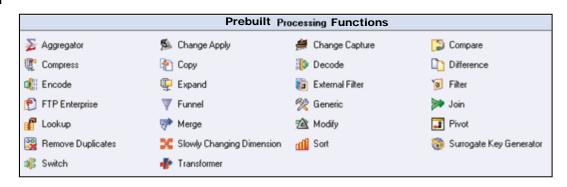
Oracle doesn't offer any of these capabilities

InfoSphere DataStage Implements The ETL Jobs

- Graphical description of ETL jobs using hundreds of pre-built transformation and data quality functions
- Stores and retrieves metadata from Information Server
 - Allows easy reuse of integration work between projects
- Advanced parallel processing capabilities
 - Dynamic partitioning and pipelining
 - Scale jobs across additional hardware without modification



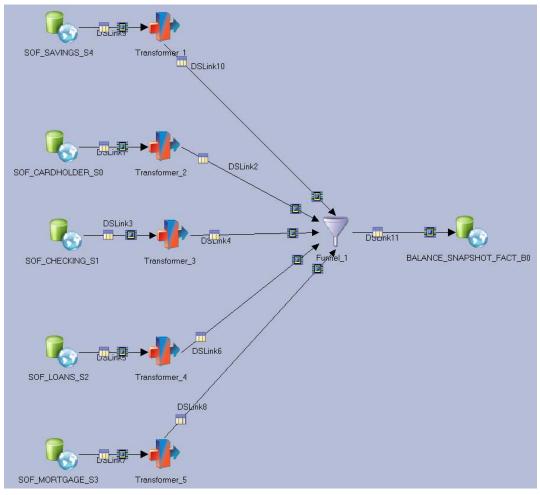






DEMO: Use InfoSphere DataStage To Load The Data Warehouse

 Execute and show the results of the ETL job that populates the data warehouse fact table



06 - Modern Business Analytics v1.0

IBM Leads In Data Integration

- Only InfoSphere Information Server delivers unified metadata across all tools for collaboration and reuse
 - Oracle Warehouse Builder and Oracle Data Integrator are two separate products that are not yet unified
- Model-driven design with FastTrack and DataStage speeds development
 - Oracle Warehouse Builder has no tools to help manage source to target mappings
- InfoSphere Information Server works in heterogeneous environments
 - InfoSphere gathers, processes, and cleanses more data from more sources than Oracle

"FastTrack enables our analysts to capture more complete business requirements. The ability to translate this information directly into DataStage jobs with up to 70 percent of the code completed will significantly shorten our development lifecycle."

- Roderich Hofmann, project manager, WAVE, IT-Solutions provider of Bank Austria and member of UniCredit Group

Using New Intelligence Creates New Business Opportunities

If we can identify our risky mortgage assets, we can work to remove them from our books.



Service Oriented Finance CEO

We can identify risky mortgage customers by watching their activities in other business areas

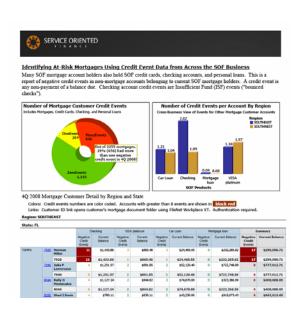
- Bounced checks
- Missed credit card payments
- Missed loan payments.



Mortgage Line of Business VP

DEMO: Identify Risky Mortgage Accounts Using Cognos 8 BI

- Show report generated in Cognos Report Studio in PDF format
- 2. Report identifies high-risk mortgages by looking at negative credit events in customers other SOF accounts (CC, Checking, etc...)
- Report uses both structured and unstructured data (link to mortgage data stored in FileNet)
- 4. Use Go! Dashboard to monitor the business operations



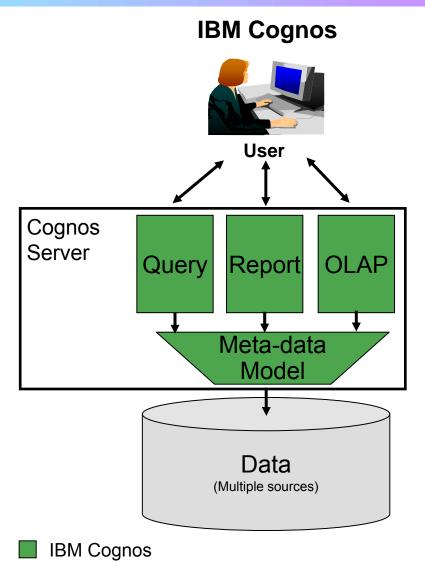
At risk customers are identified



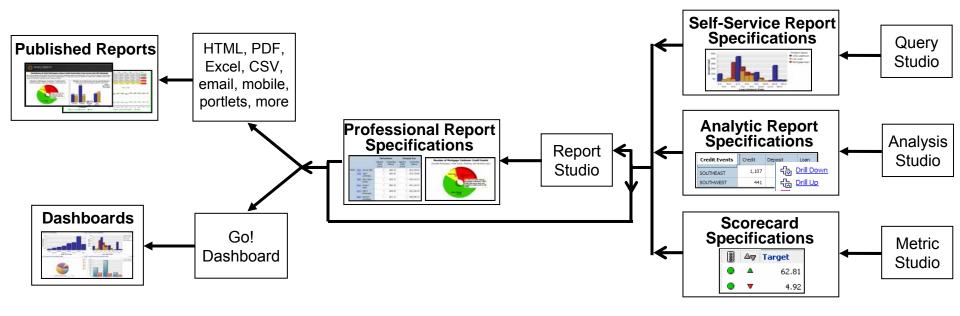
Mortgage
Line of Business VP

IBM Cognos Is An Integrated Platform For Smart Analytics

- Implemented in Java, runs on WebSphere
- 100% browser based access
 - Server side business intelligence
 - Users can access new intelligence from anywhere
- Easiest for IT to deploy and manage
 - Scales up and out across heterogeneous hardware and operating systems
 - Unified security
 - Unified administration
- Consistent user interface across tooling
 - Greater user satisfaction and increased business agility with lower IT costs
- Common meta data model
 - Author new intelligence assets once, consume anywhere
 - Common view enables open data strategy
 - Supports Unicode and multilingual features without recreating reports



Reuse Trusted New Intelligence Assets Across The Cognos 8 Platform

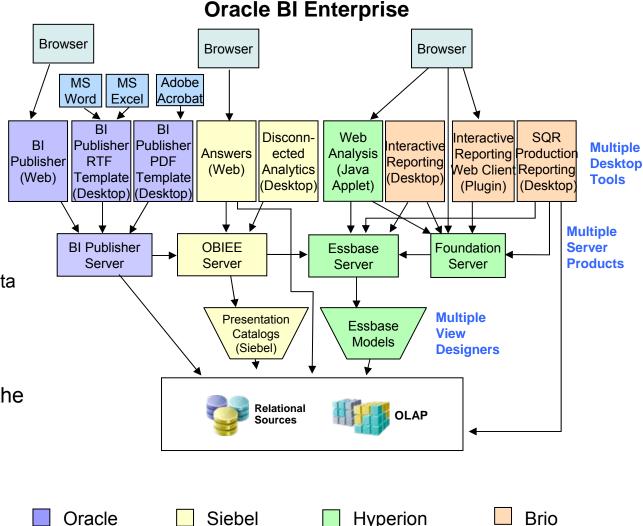


- All new intelligence assets share a common metadata model and common report specification
- Author Once Consume Anywhere
- Ensures consistent information and enables reuse across platform functions

- Oracle has multiple metadata models depending on source type
- Oracle has multiple different report formats
- Oracle cannot reuse assets between tools

Oracle Business Intelligence Enterprise Edition Is A Complicated Bundle

- Too Many Products!
- Multiple Desktop Client Tools
 - Multiple report formats
 - Multiple metadata models
 - Creates More work
 - Report specifications cannot be shared or reused easily
 - No common meta data model
- Creates IT Burden
 - Install, Patch, User
 Support all happen at the desktop



System z Solution Edition For Data Warehousing Provides A Promotional Price!

- Solution Edition for Data Warehousing provides a foundation database environment on System z
 - System z hardware (processors, memory, I/O) with maintenance included
 - DB2 for z/OS database and utilities with subscription and support included
 - IBM Storage
- Does not include (can be added to the stack with similar price benefits)
 - InfoSphere Warehouse
 - Cognos
 - InfoSphere Information Server
- Choice of deployment for same price
 - New footprint stand-alone System z
 - Incremental addition to an existing system

Result: Extend "Small" Solution Edition For **Data Warehousing With Cognos**

Existing Mainframe



Add 1 LPAR for Data Warehousing and 2 IFLs for Cognos

Prod

DB2	Cognos
Workload	Workload
1,565 MIPS	2 IFLs
z/OS	zLinux

Average workload: 5,500 Qph

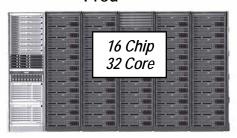
Peak: 33,000 Qph 3 year **TCA**

Incremental: 1,565 MIPS DB2 (1 GP + 1 zIIP) 2 IFLs Cognos

Or Add Integrity Superdome 64W SX2K Itanium2 9150N 1.6GHz Server

Cognos on HP Integrity BL860c

Prod



100,249 Performance Units



3 year **TCA** \$2.68M

IBM Smart Analytics System 9600: Delivers Enterprise-wide Analytics On System z

Extend the qualities of service, inherent in the z/OS environment to ensure the availability and security of data.

Hardware/OS

- > z/OS r 12
- IBM System z10 technology
- IBM System Storage DS8700 Intelligent Disk controller
 - Large controller cache and 3 Tier disk offering

Unique Software

- ▶ DB2 for z/OS
- Cognos 8 BI included in base offering (Linux on System z)
- InfoSphere Warehouse (Linux on System z)

Optional Components

- Solid State drives, integrated within DS8700
 - Easy Tier to identify and migrate "hot data" to SSD



System z Is An Excellent Base For Your Data Warehouse And Business Analytics

- Operational and warehouse data co-located on System z
- Exploits System z Parallel Sysplex for availability and scale
- Cognos supports a common metadata model and report specification and provides 100% browser based access
- Systematic disaster recovery and backup strategies
- Qualities of Service
- Competitive Price