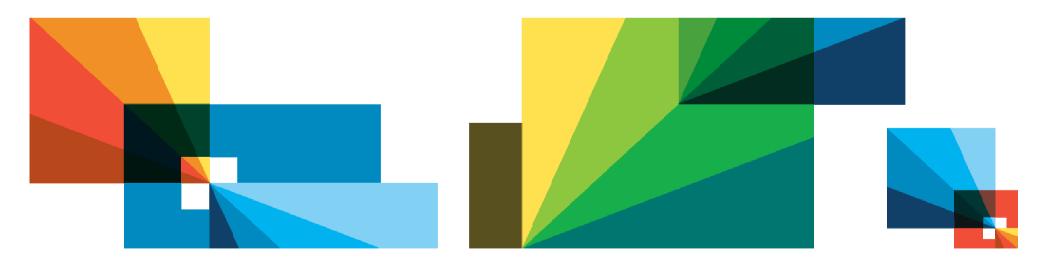


MDM으로 기업의 데이터 한 눈에 보기

IBM SWG, 송정숙, 차장 (jussong@kr.ibm.com)





InfoSphere Addresses Big Data Governance Concerns

Integrate & Link Big Data

- Big Data as a Source
- Big Data as a Target
- Data Transformations
- Data Movement
- Integrate w/existing Enterprise
- Data Lineage & Impact Analysis
- Metadata Integration w/Analytics
- Realtime & Data Federation

Protect Big Data

- Activity Monitoring
- Data Masking
- Data Encryption
- On-Demand / In-Place Protect
- In-Line Protection (w/ETL etc.)
- Active Detection & Alerting

Cleanse and Validate Big Data

- Accuracy and Entity Matching with Social Data
- De-duplication and Standardization of Machine Data
- In-line Cleansing with Integration
- Trusted Data Dashboard and Reporting on Data Quality



Visualization

and Discovery

Big Data Platform

Data

Warehouse

Master Big Data

- Big Data as a Supplier
- Big Data as a Consumer
- Links between Big Data and Trusted Golden Records
- Leverage Master Data in Big Data Analytics
- Entity Resolution at Extreme Scale Out Levels
- Probabilistic Entity Matching

Audit & Archive Big Data

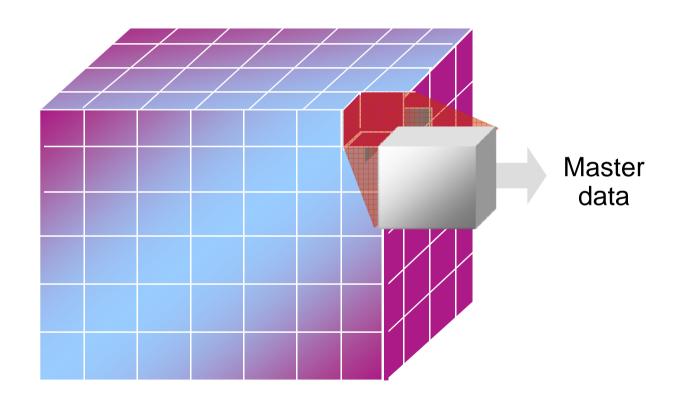
- Queryable Archive
- Structured and Semi-Structured
- Optimized Connectors to existing Apps
- Hot-Restorable On-the-Fly
- Immutable and Secure Access
- Automated Legal Hold Capability for Data Freeze





마스터데이터란?

- ◆Master data is the high-value, core information used to support critical business processes across the enterprise
- ◆Master data is a subset of all enterprise data
- ◆Master Data is information about customers, suppliers, partners, products, materials, employees, accounts and more
- ◆Master Data is at the heart of every business transaction, application and decision



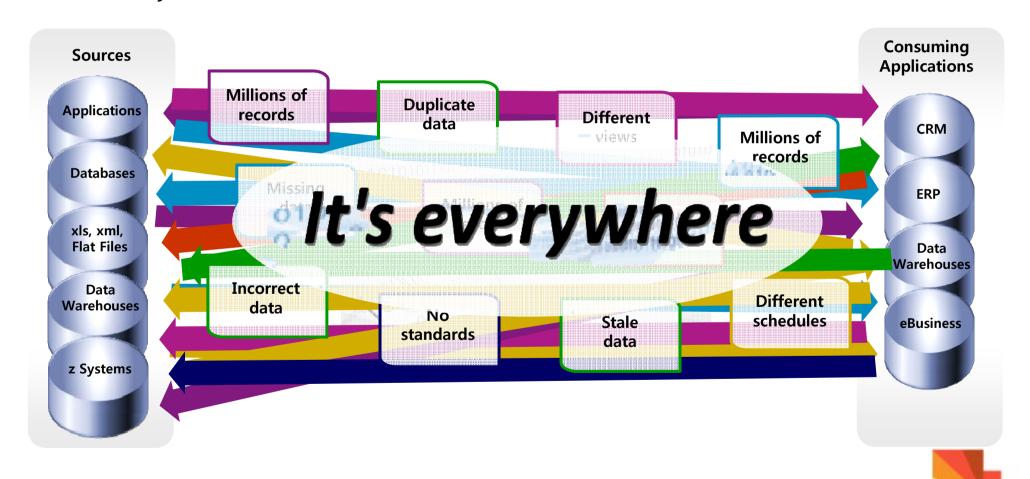




마스터데이터관리의 현실 #1

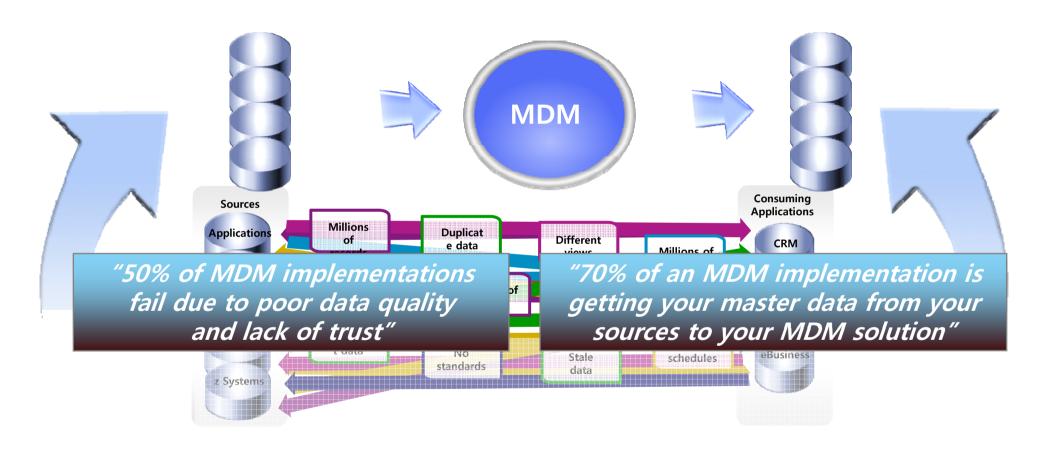
What systems contain master data?

Who Consumes Master Data?





마스터데이터관리의 현실 #2

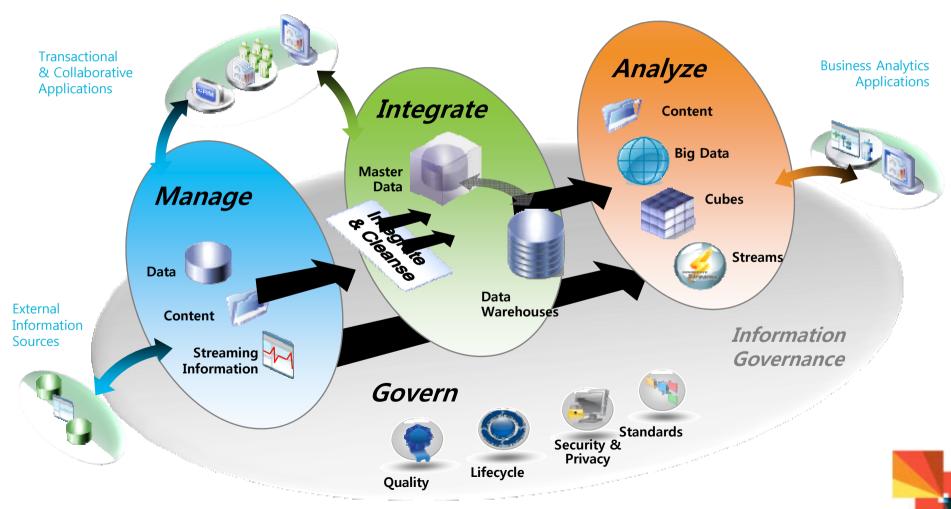






IBM이 말하는 마스터데이터관리란?

Trusted ◆ Relevant ◆ Governed





IBM InfoSphere Master Data Management 솔루션

InfoSphere Master Data Management

Creates trusted views of your master data for improving your applications and business processes.



The Most Comprehensive

- All domains
- All styles
- All use cases
- All industries
- Fully Pre-Built or Build it Yourself

Best Solution for Real Time Processes

- Optimized for real time
- Business Services
- BPM Express
- MDM Powered Applications

The Quickest Time to Value

- For your chosen implementation
 - Transactional
 - Registry
 - Collaborative Authoring

Proven – The Deepest Experience

- 600 + customers
- Lowest risk
- Global reach
- Information Governance Workshops





마스터데이터관리를 통해 얻는 비즈니스 효과는?



Improve business agility

Integrate new systems (M&A) in weeks



New market and product strategy

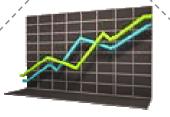
Increase campaign yields by 5%



Lower operational costs

Eliminate 2 of 3 CRM systems





Cross-sell & Up-sell

Increase average deal size by 2%



Improve customer service

Reduce time to search for customers by 58%



Comply with regulations

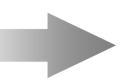
Improve privacy preference compliance by

10%



MDM 주요 해외 적용 사례

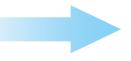
Make real-time product offers based on accurate & complete customer data



Bank of America

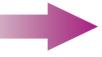


Access clinical patient data on demand





Know-your-customer compliance & auditing





Accurate client identification for software purchasing processes





Reduce time to market with new product introductions

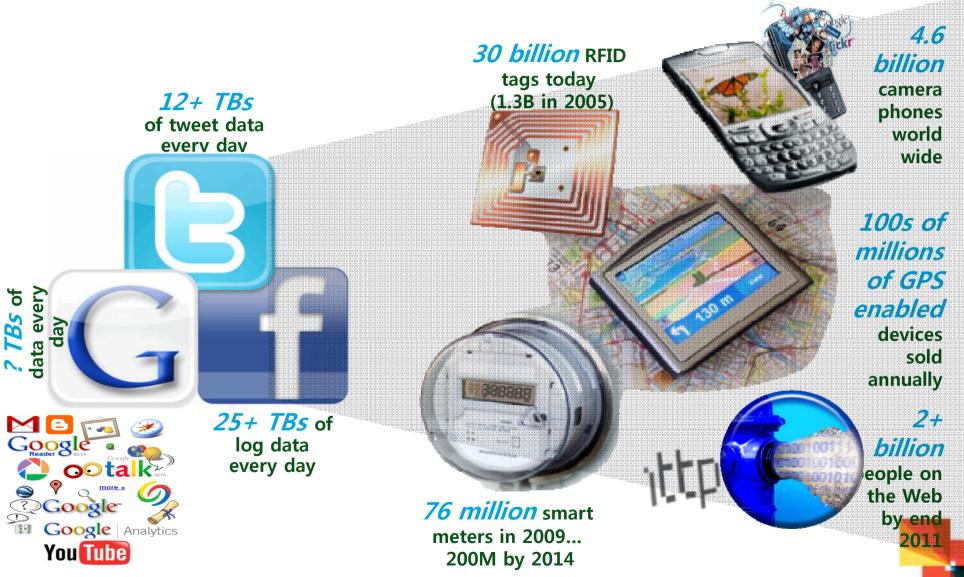


Panasonic





MDM's Big Data Challenge!





MDM & Big Data 통합방안

Entity Matching on Big Data Sets

Probabilistic matching on large volumes of data

Mining Big Data to Populate MDM

- Option 1: start from MDM profile, then search through unstructured big data to augment MDM
- Option 2: mine big data to populate MDM

Social Media Analytics & MDM

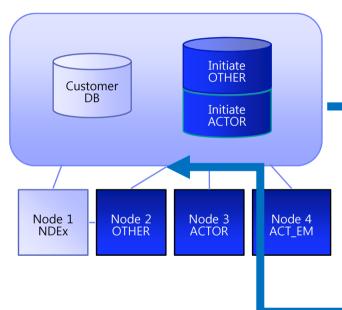
- Understanding customer's social media profiles
- Analyzing big data for targeted customers





Big Data & MDM 통합방안 #1 **Entity Matching on Big Data Integrated with MDM**

InfoSphere MDM Entity Management turned off



Load BXM Entities into mpi_entlink_ tables

Copy raw data files to the distributed filesystem (GPFS-SNC), which causes them to be split into large blocks and spread out over the cluster.



	Key	Family	Qualifier	Value
	IBM:1	Attribute	FNAME	Thomas
	IBM:1	Attribute	LNAME	Watson
	IBM:1	Attribute	ADDR1	11501 Burnet Rd
	IBM:1	Attribute	CITY	Austin
	IBM:1	Attribute	STATE	TX
	IBM:1	Attribute	ZIP	78758
	IBM:1	Comparison		TOM^WATSON^11501^
	IBM:1	Bucket	12345	
	IBM:1	Bucket	54321	

وومواداني

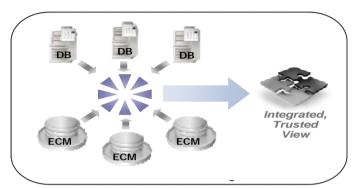
MDM Probabilistic Matching Engine

Load data into Apache HBase using a MapReduce job that standardizes and derives the data using the IBM Initiate Probabilistic Matching Engine.

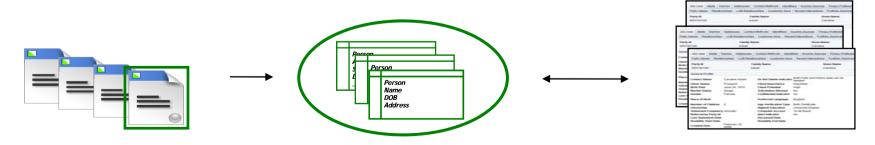


Big Data & MDM 통합방안 #2 Mining Big Data to Populate MDM

- Bridges the gap between unstructured content and master data by automatically extracting entity information from documents.
- Makes use of existing structured data from MDM to extract information about one or more entities from each document



■ The extracted information is grouped into entity records that are provided to MDM to enhance existing master data and to improve entity resolution and relationship discovery based on evidence found in unstructured data

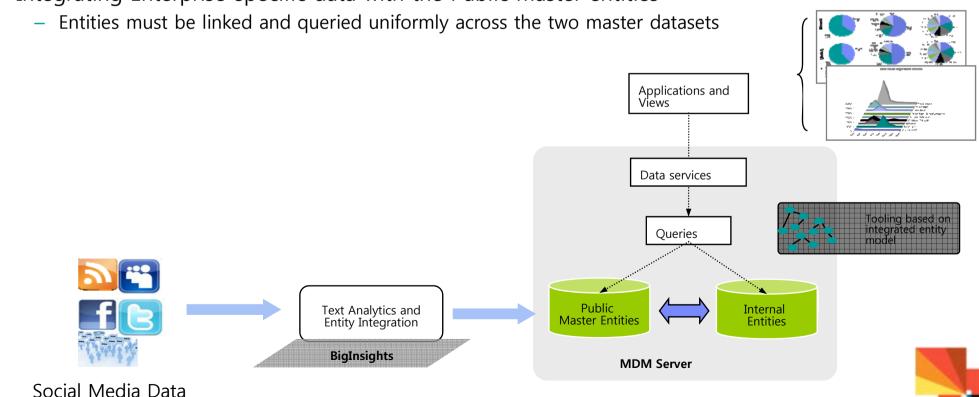






Big Data & MDM 통합방안 #3 Social Media Analytics & MDM

- Extraction, integration and management of entities (profiles) from Social Media
 - Tens of Millions of profiles (e.g., from Twitter, Blogs and Forums)
 - Use Cases: Customer Retention/Lead Generation, Measuring Campaign Management Effectiveness
- Integrating Enterprise-specific data with the Public master entities





Big Data & MDM 통합에 따른 기대효과

- ◆Augment your traditional product information data with dynamically derived product traits based on web & social media feedback
- ◆Improve the '360-degree customer view' that you provide to customer service by adding in unstructured content alongside structured master data
- ◆Discover additional relationship links between your master entities based on insights from unstructured documents
- ◆Enhance the '360-degree customer view' that you provide to marketing & sales by deriving additional insight from social media

