

# Enterprise Information Management and the Emergence of the Information- centric Infrastructure



Regina Casonato

# Failed Methods Turn Information Assets Into Information Liabilities

"We are drowning in information"

INFOGLUT

You are here. You will stay here.

**EXTRA!!! The Times EXTRA!!!**

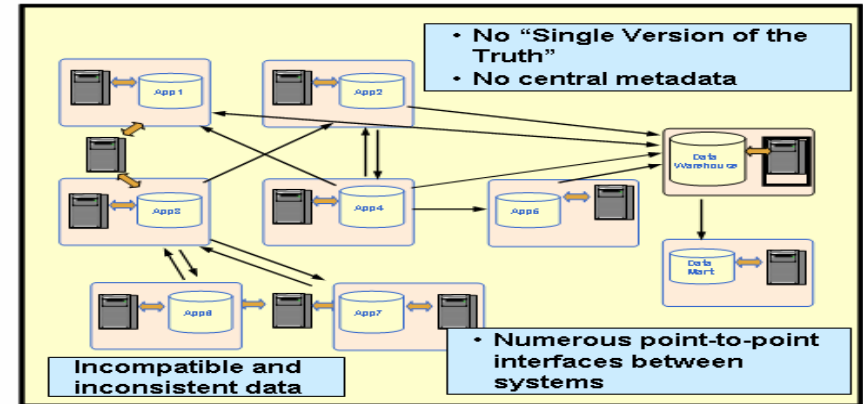
December 12, 2007

**Files, Sanctions and Scandal: Your Company Here**

Bank of America Corp. says it will settle for \$1.5 million to settle e-mails. Between January 2001 and February 2004, the units did not ensure its software kept e-mails, the SEC says.

Brokerage affiliates will argue they failed to preserve business records, the SEC says.

## Current Information Management Strategies Add Risk, Cost and Complexity



30-40% of IT budget for information integration

## Data Accuracy and Quality Problems

Multiple sources of the same product content across structured and unstructured formats

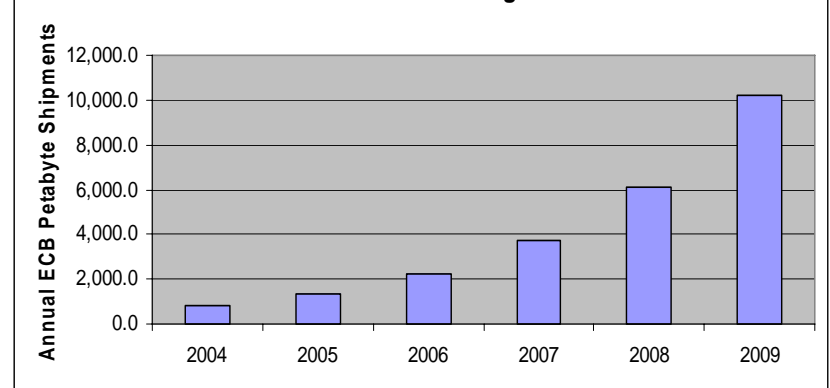
Inconsistent description formats, abbreviations, and order

Ambiguous meaning of Brand and Model

Brand disparity between Applications

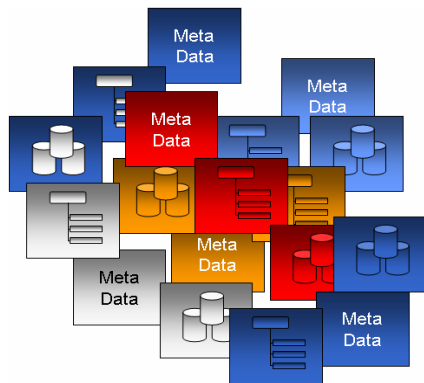
SKU	ITEMS BRAND	RF Brand	ITEMS model	RF model
5	X00007	EVER	Suzuki	750
6	X00007	EVER	Kawasaki	750
7	X00014	RENA	Yamaha	SC-317
8	X00014	RENA	Suzuki	SC-317
9	X00014	RENA	Yamaha	SC-317
10	X00014	RENA	Suzuki	SC-317
11	X00014	RENA	Kawasaki	SC-317
12	X00064	EVER	Panasonic	L91
13	X00064	EVER	Panasonic	L91
14	X00064	EVER	Pentax	L91
15	X00064	EVER	Pentax	L91
16	X00064	EVER	Play	L91
17	X00064	EVER	Play	L91

## Worldwide Petabyte Forecast for External Controller-Based Disk Storage



# Current Methods Add Cost, Risk and Complexity to Integration Efforts

## Information Overload and Context



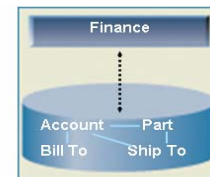
- Find-ability
- Transparency
- Abundance

**Metadata**

## No "Single Version of the Truth"



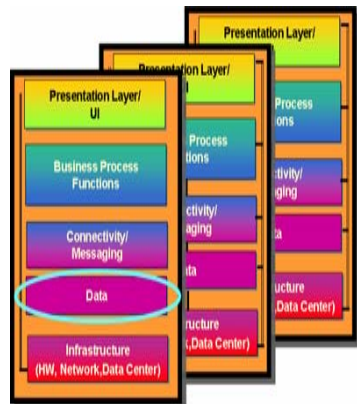
- Consolidation
- Re-use
- Federation



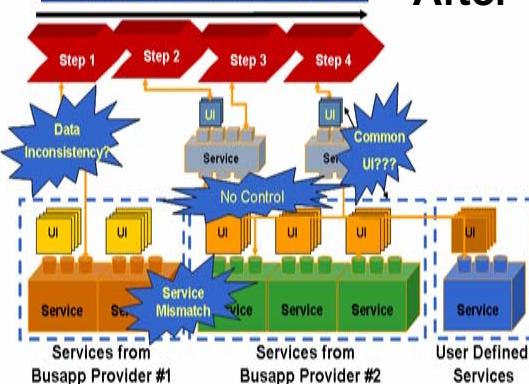
**Master Data**

## Mismatch in Composition & Abstraction

**Before**



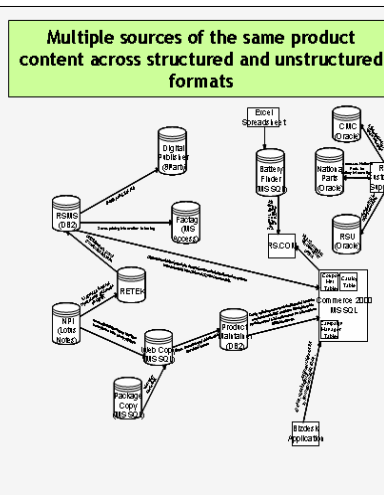
**Service Composition Process**



**After**

**"Information as a Service"**

## Lack of Quality and Consistency



**Multiple sources of the same product content across structured and unstructured formats**

**Inconsistent description formats, abbreviations, and order**

**Ambiguous meaning of Brand and Model**

**Brand disparity between Applications**

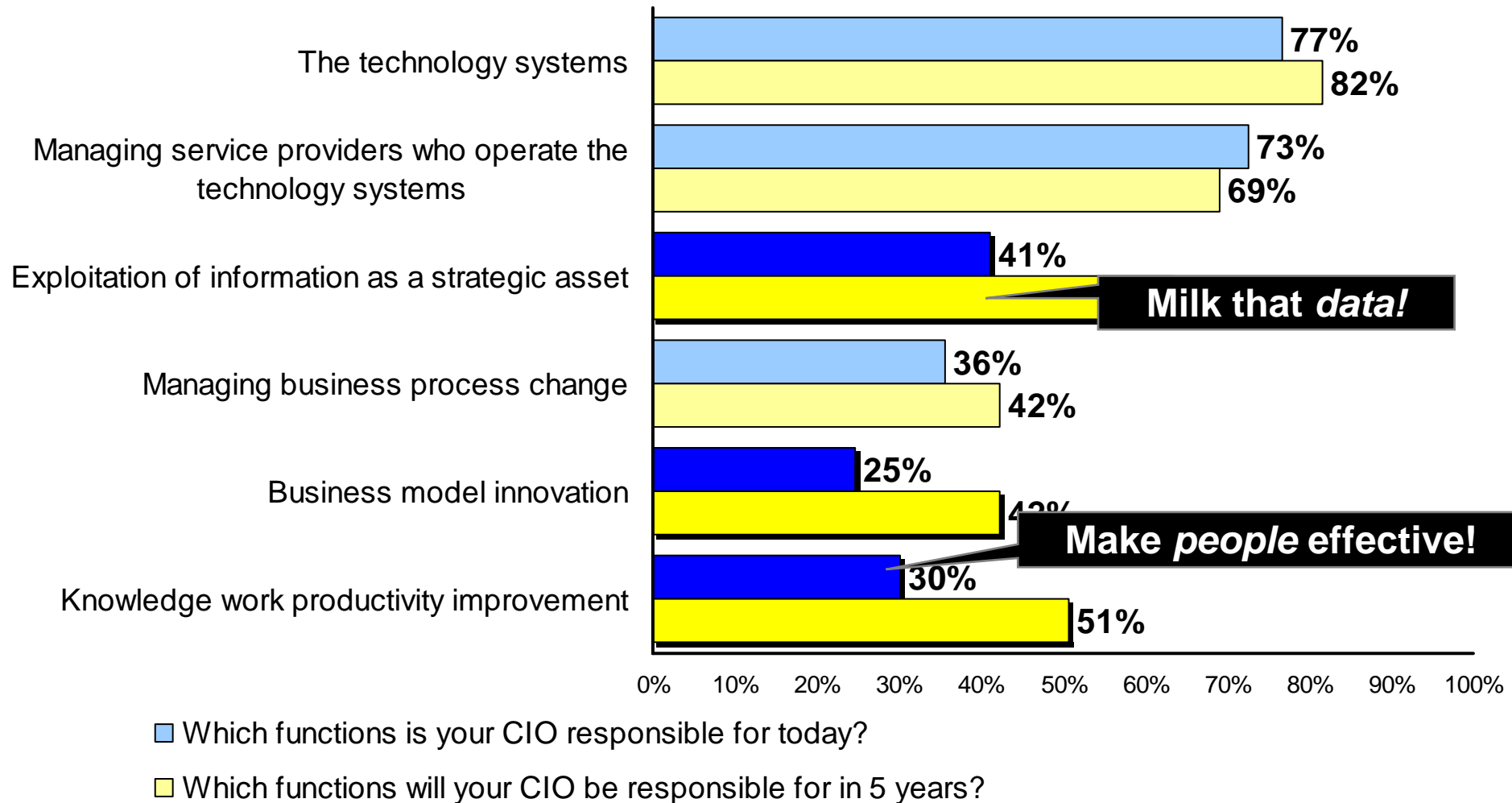
SKU	RENA	EVER	PHILIPS
1	Retek Description - Current Varieties		
2			
3	SKU DESC		
4	1100 MAH NICA07???		
5	BAT NICKA 252 1100 MAH NIMAH		
6	11 3V G 900 MAH		
7	24 6V 600 MAH NIMH BATTERY		
8	3.6V 600 MAH NICA		
9			
10			
11			

SKU	RENA	EVER	PHILIPS
1			
2			
3			
4			
5	SKU	RENA	EVER
6	2300007	EVER	Duracell
7	2300007	EVER	Eveready
8	2300514	RENA	Bulova
9	2300514	RENA	Citizen
10	2300514	RENA	Duracell
11	2300514	RENA	Eveready
12	2300664	EVER	Panasonic
13	2300664	EVER	Panasonic
14	2300664	EVER	Pentax
15	2300664	EVER	Pentax
16	2300664	EVER	Pfaff
17	2300664	EVER	Philips
18			
19			
20			

**Data Quality and Stewardship**

# Disruption From the Top



# Managing Information as a Strategic Asset Delivers Value

## Efficiency

### Process Simplification

Promote reuse and data quality

### Compliance

Transparency of information

### "Infoglut"

Manage expanding volumes

### Vendor Consolidation

Spend less on same technology

### M&A

Reduce integration burdens

## Across the Enterprise



## Across All Content

## Differentiation

### Enterprise Agility

Sense and respond  
Continuous Flow

### Real Time

Closed-loop analytics

### Single View

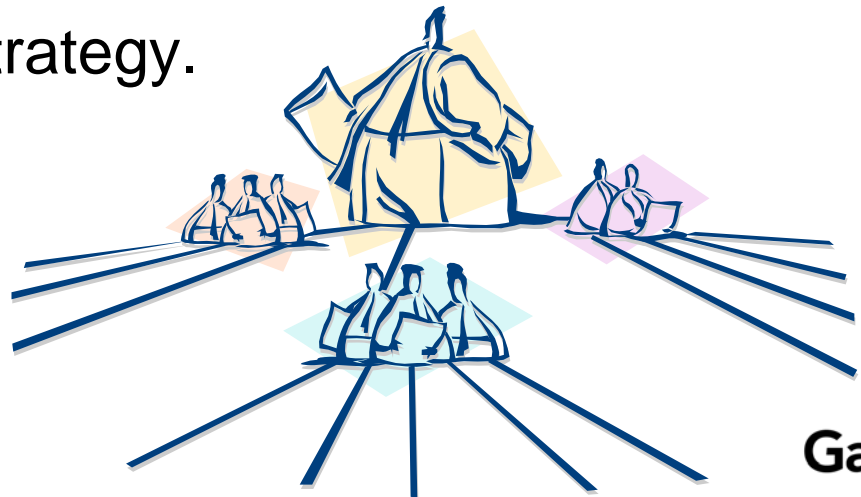
Consistent and holistic view across all channels  
Relationship management

### Revenue Optimization

Support top-line growth on cross-sell/upsell  
Leverage global purchasing power

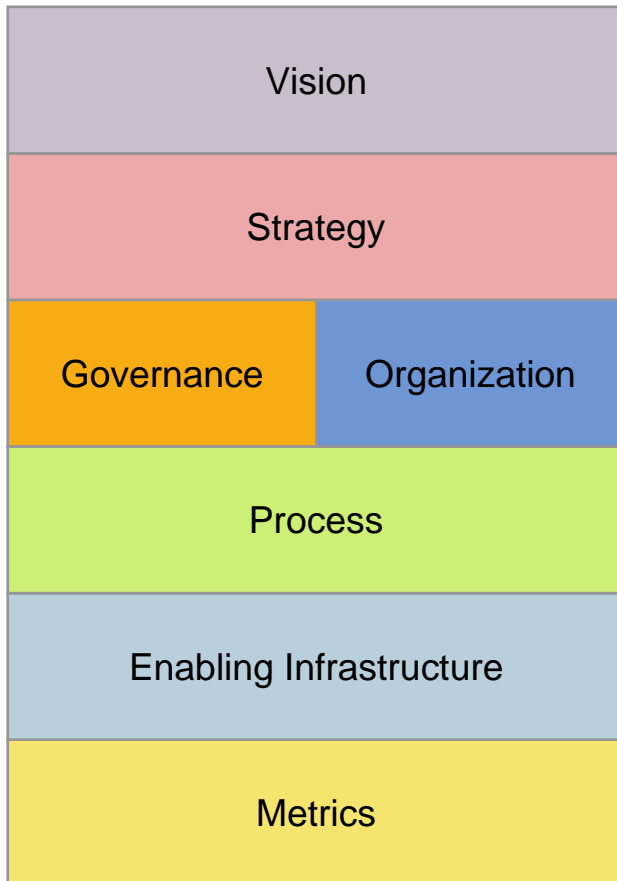
# Defining Enterprise Information Management

Enterprise Information Management (EIM) is an organizational commitment to structure, secure and improve the accuracy, accessibility and integrity of information assets, solve semantic inconsistencies across boundaries, and support the technical, operational and business objectives within the organization's enterprise architecture strategy.



# EIM Is a Comprehensive Program, Not a Technology

## Gartner's Essential Building Blocks for EIM



**Vision:** How is information perceived and valued in the organization? Is it a bi-product, a shareable resource or source of differentiation?

**Strategy:** How is information currently managed? Is it ad-hoc, departmental, or is there an enterprise focus?

**Governance:** What decision rights and controls exist for managing information as an asset and who is involved?

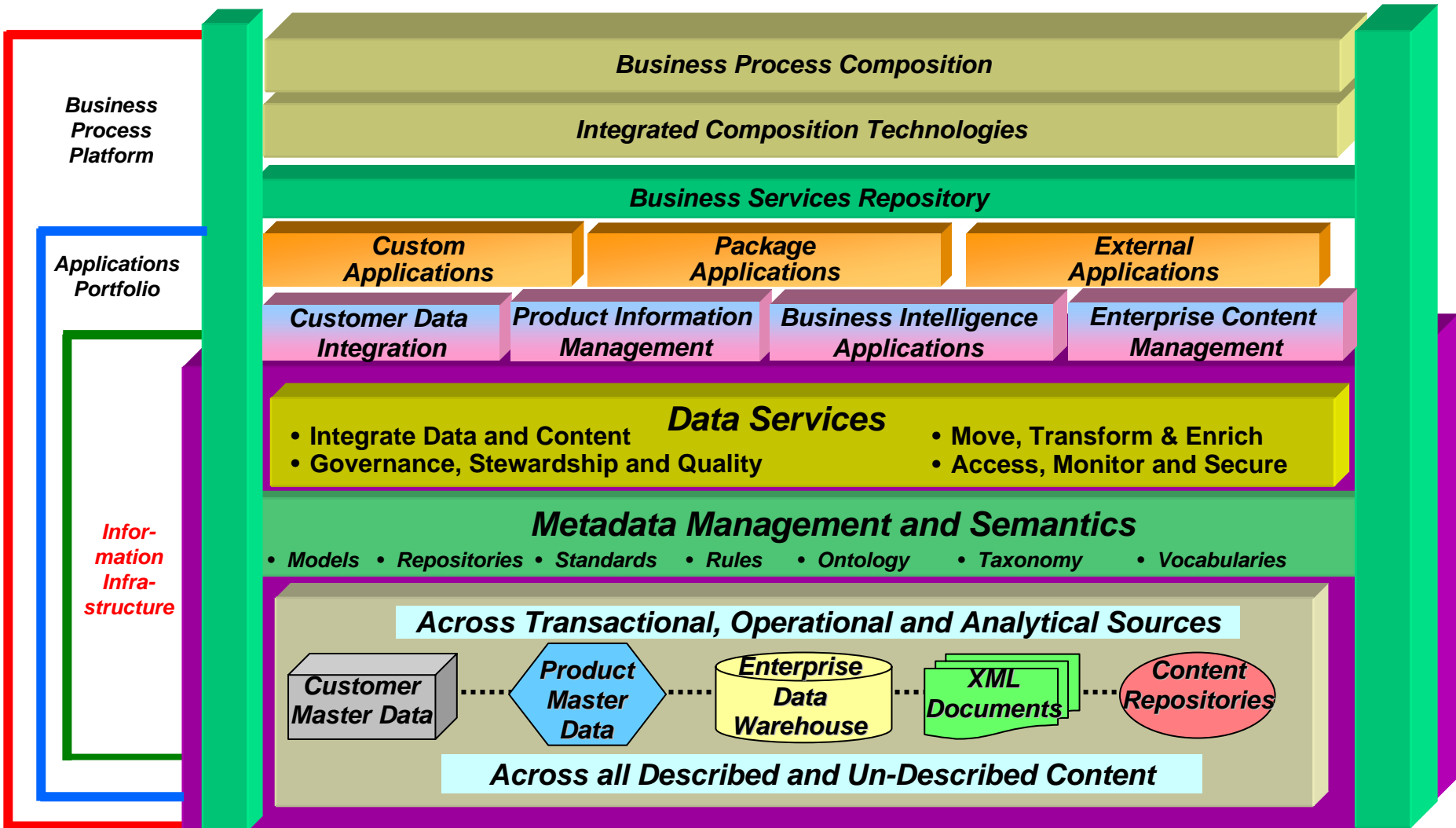
**Organization:** What information-centric roles exist and where are they located?

**Process:** Are there practices (such as stewardship) and standards around the information lifecycle?

**Enabling infrastructure:** How well do information management technologies support current and future needs?

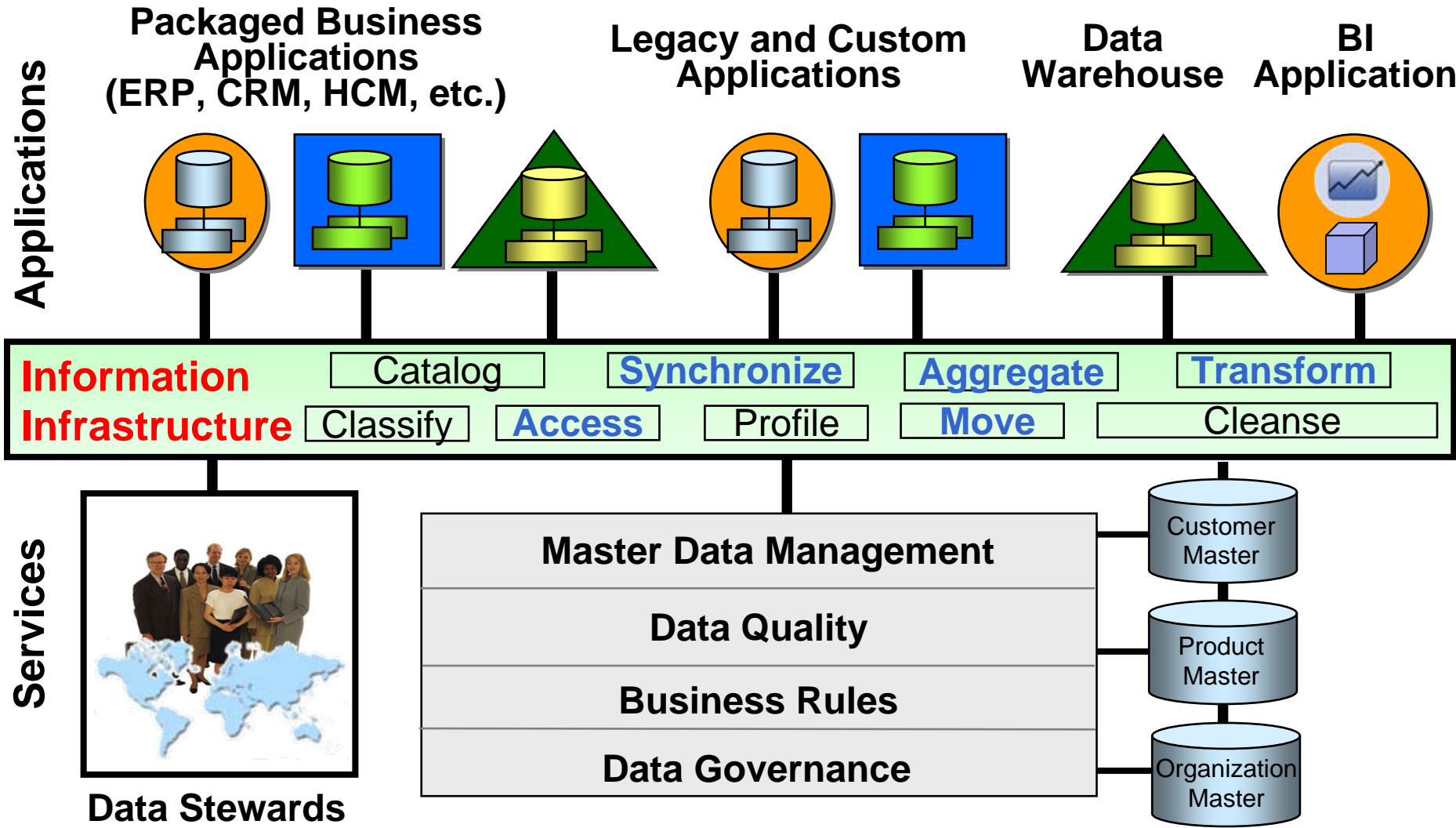
**Metrics:** How much is spent managing information? How much information is redundant? How much poor quality information exists and what impact does it have on the business?

# EIM Supports SOA



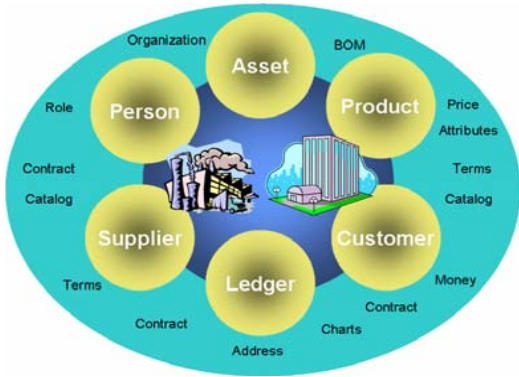


# Information Infrastructure: Delivering "Information As A Service"



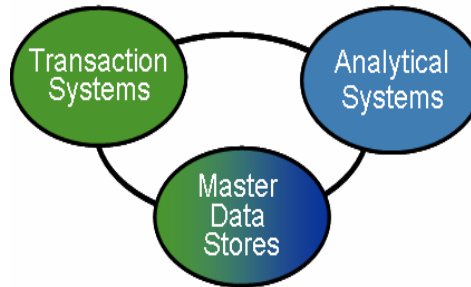
# The Role of Technology in EIM

## Integrated Subject Areas

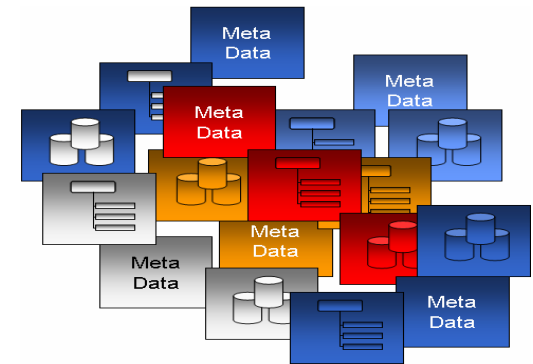


## Continuous Flow

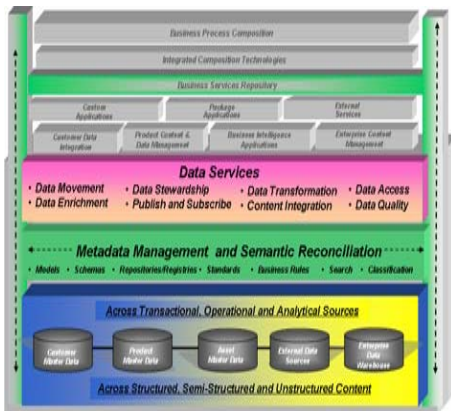
Continuous, Seamless and Immediate Information Flows



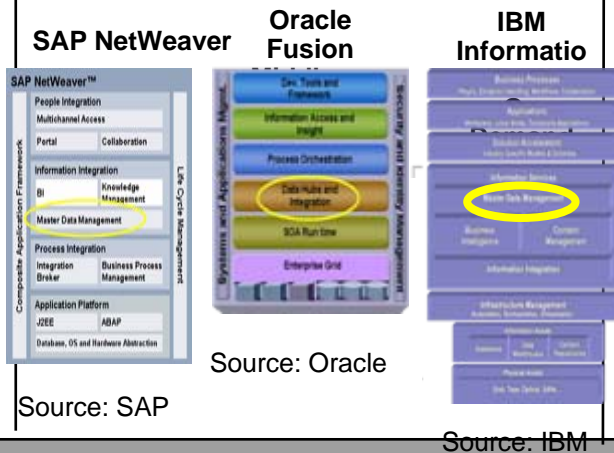
## Metadata and Semantics



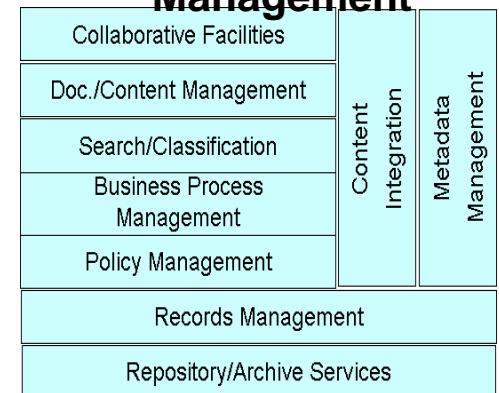
## Data Integration



## Master Data Management

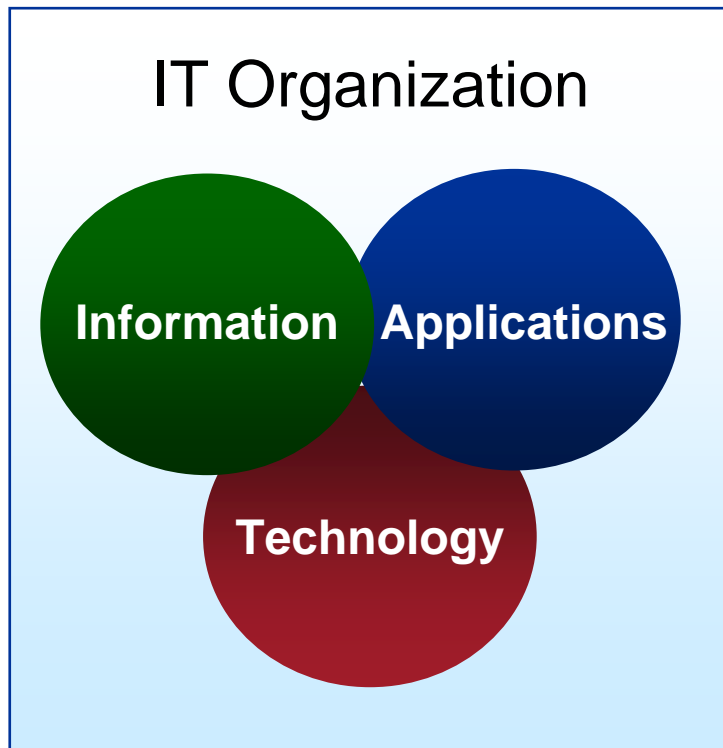


## Enterprise Content Management



# EIM Requires Organizational Commitment

A commitment to EIM is recognition that **information** in the enterprise is as important as **process** (application development) and **infrastructure** (technology)

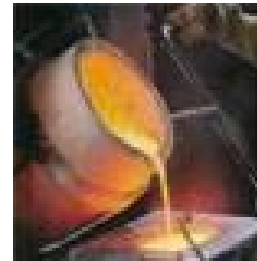
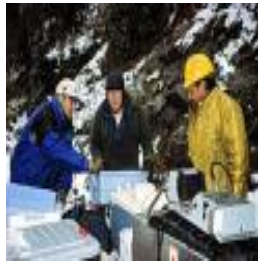


- EIM is operationalized as a program with a defined budget, charter, staff and project plan
- The commitment to EIM may be contentious in some organizations — politics and turf issues
- Application development or business units typically believe they "own the data"
- Other motivators: "Separation of duties" for compliance

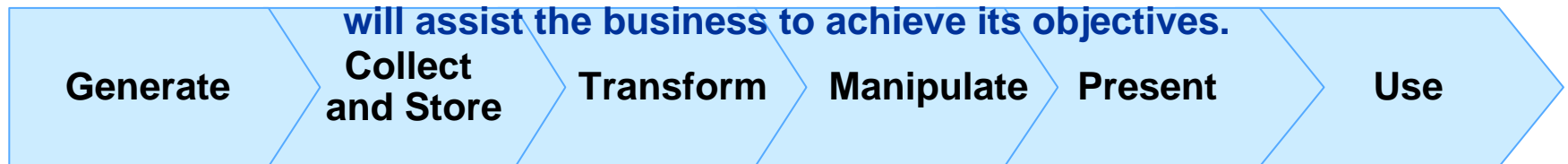
# It Can Be Done: Anglo Platinum Information Value Chain

Map the Processes to Manage Information to the Platinum Value Chain

## *The Platinum Value Chain*



Information in Anglo Platinum also follows a value chain, from the point of generating (creating) the information and then "refining" it to the point where decisions are taken that will assist the business to achieve its objectives.



## *The Information Value Chain*

# Summary

- 1. Identify opportunities where information creates value in your organization**
- 2. Build the business case for EIM**
- 3. Align EIM with enterprise architecture initiative**
- 4. Use building blocks to identify work-streams**
- 5. Establish EIM Infrastructure to support SOA and other technology requirements**
- 6. Use metadata and XML to manage and converge all content**
- 7. Assign Information Architects to all major projects**
- 8. Get the message out, build the brand and establish marketing campaign**

