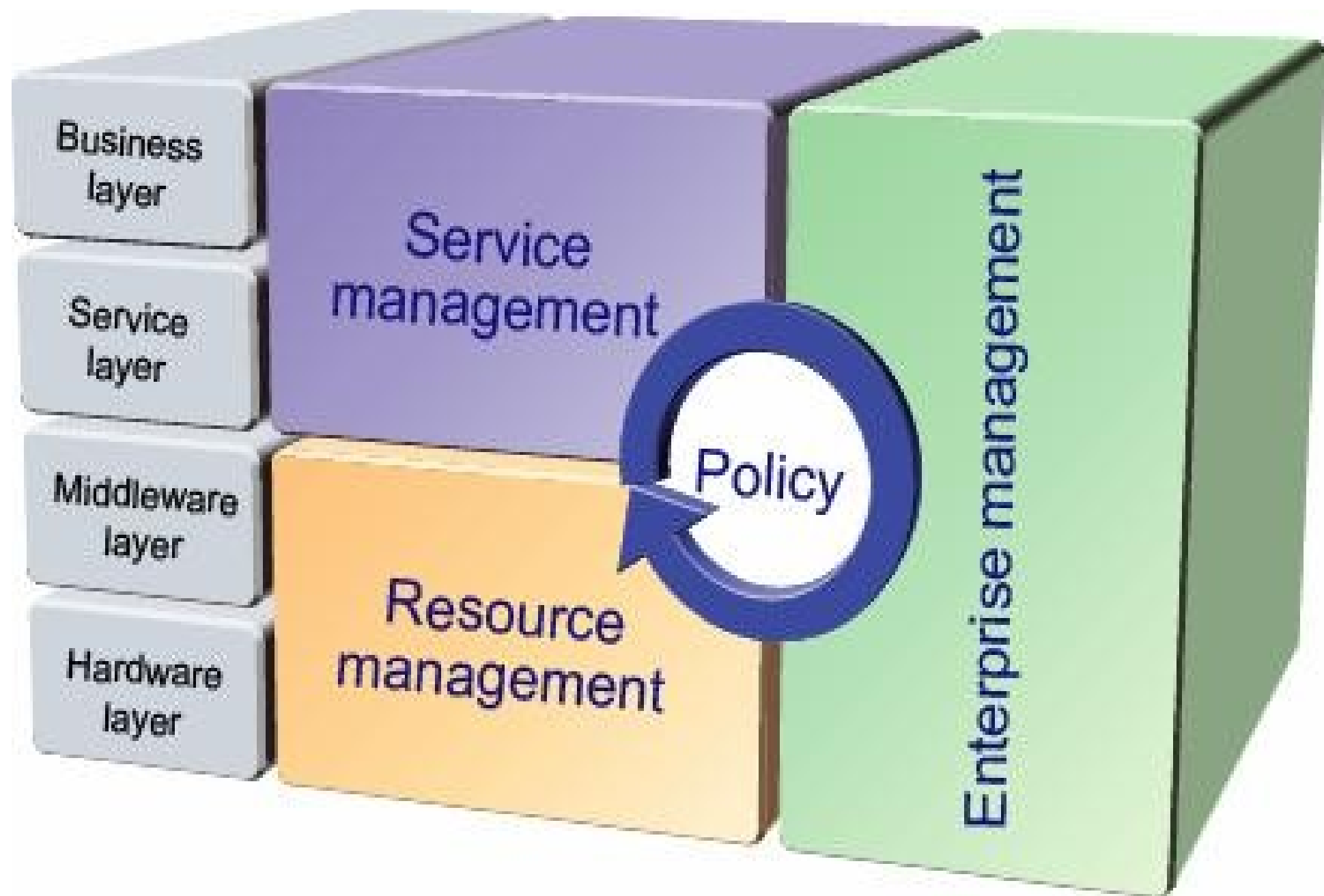


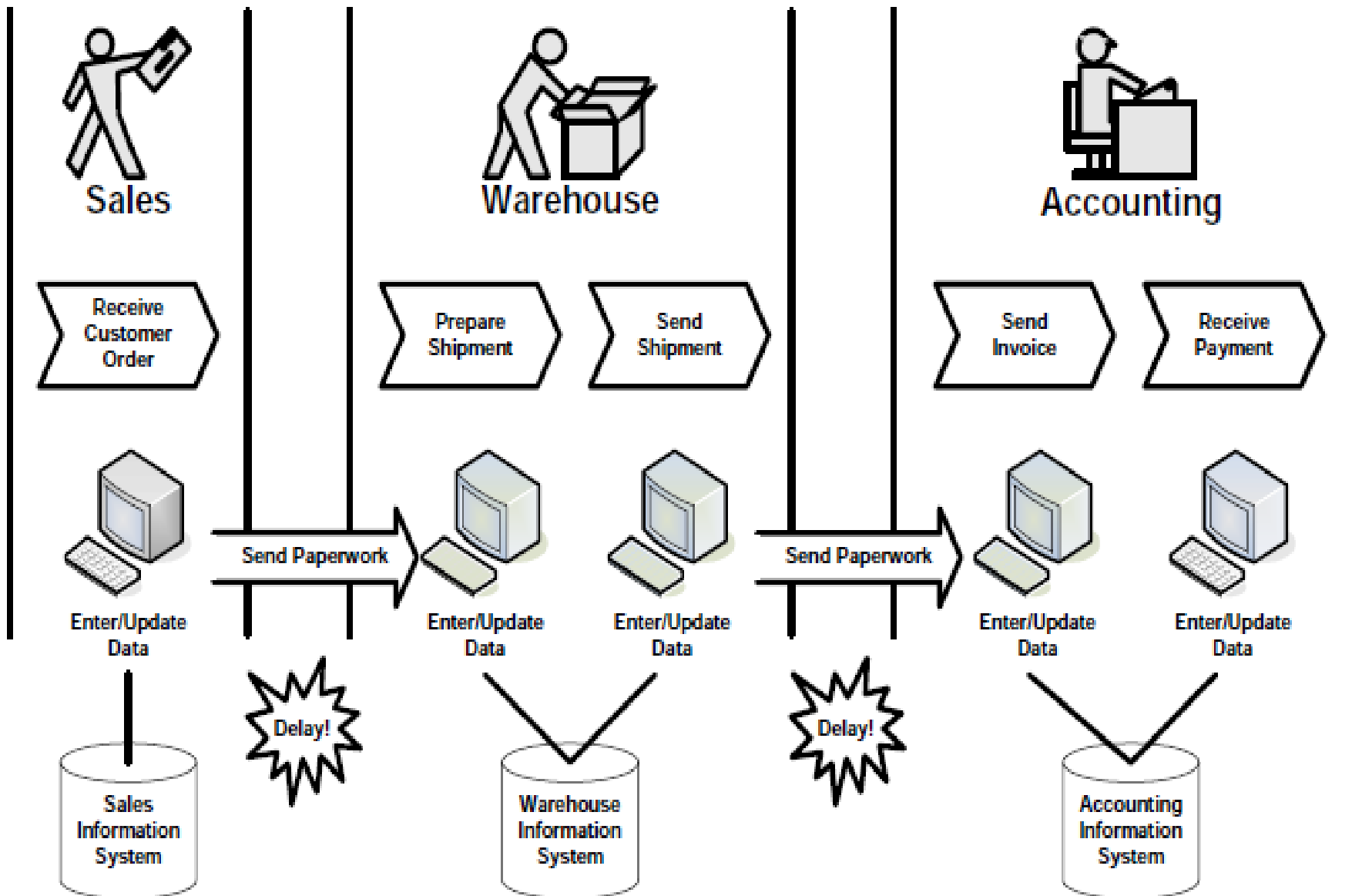
IT ARCHITECTURE ENTERPRISE SYSTEM ARCHITECTURE

Willy Sudiarto Raharjo

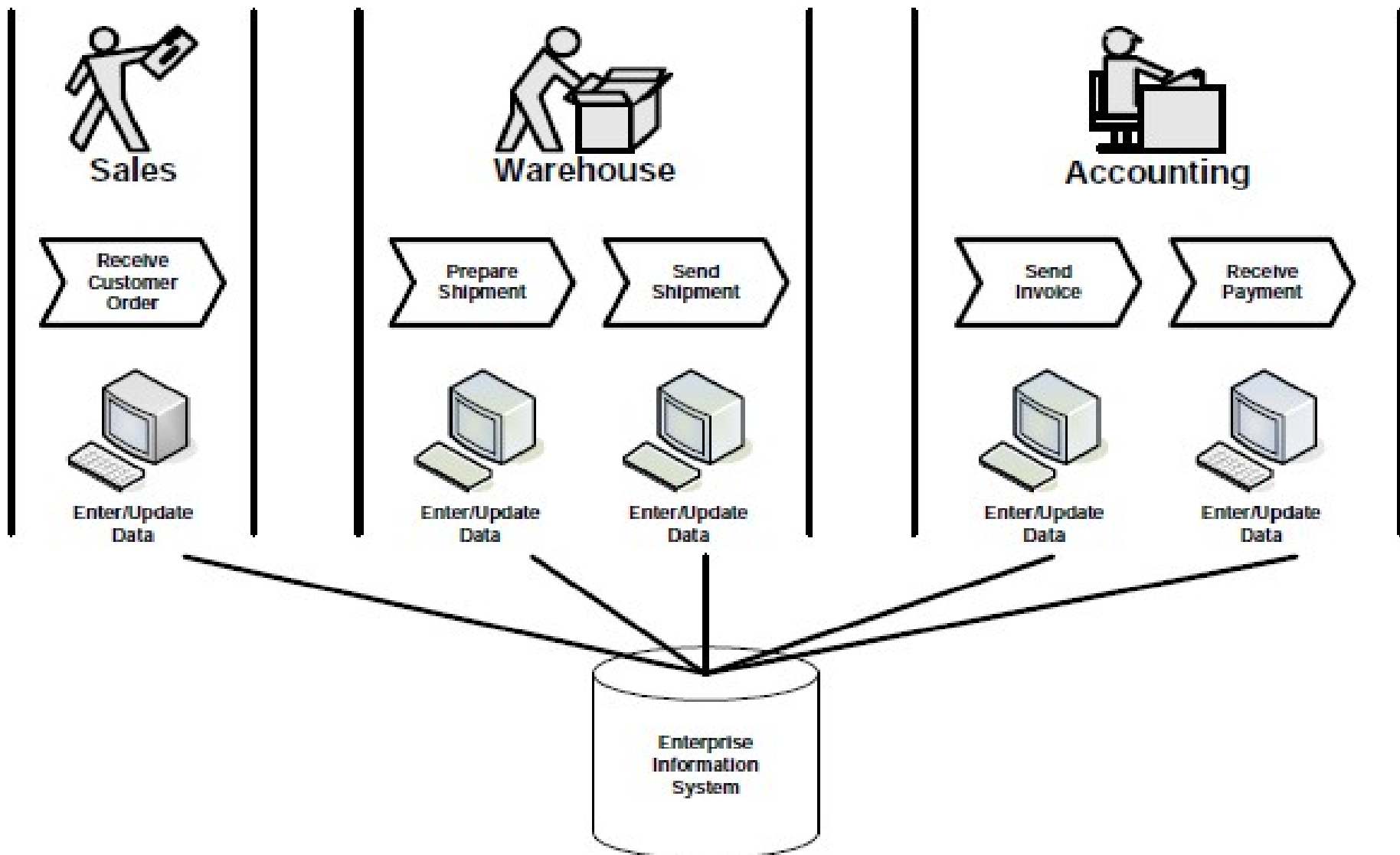
Teknik Informatika
Universitas Kristen Duta Wacana



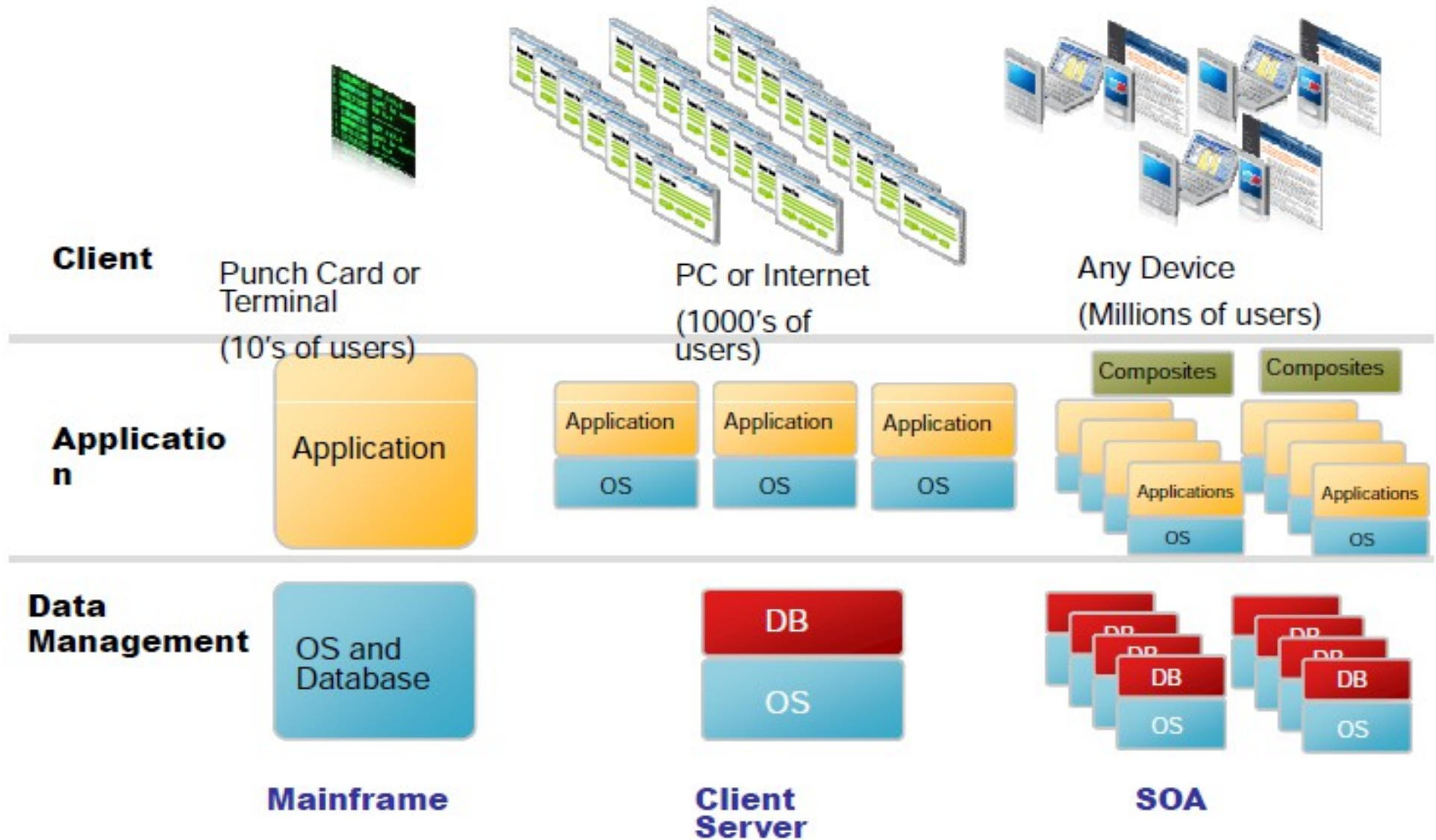
Departmental

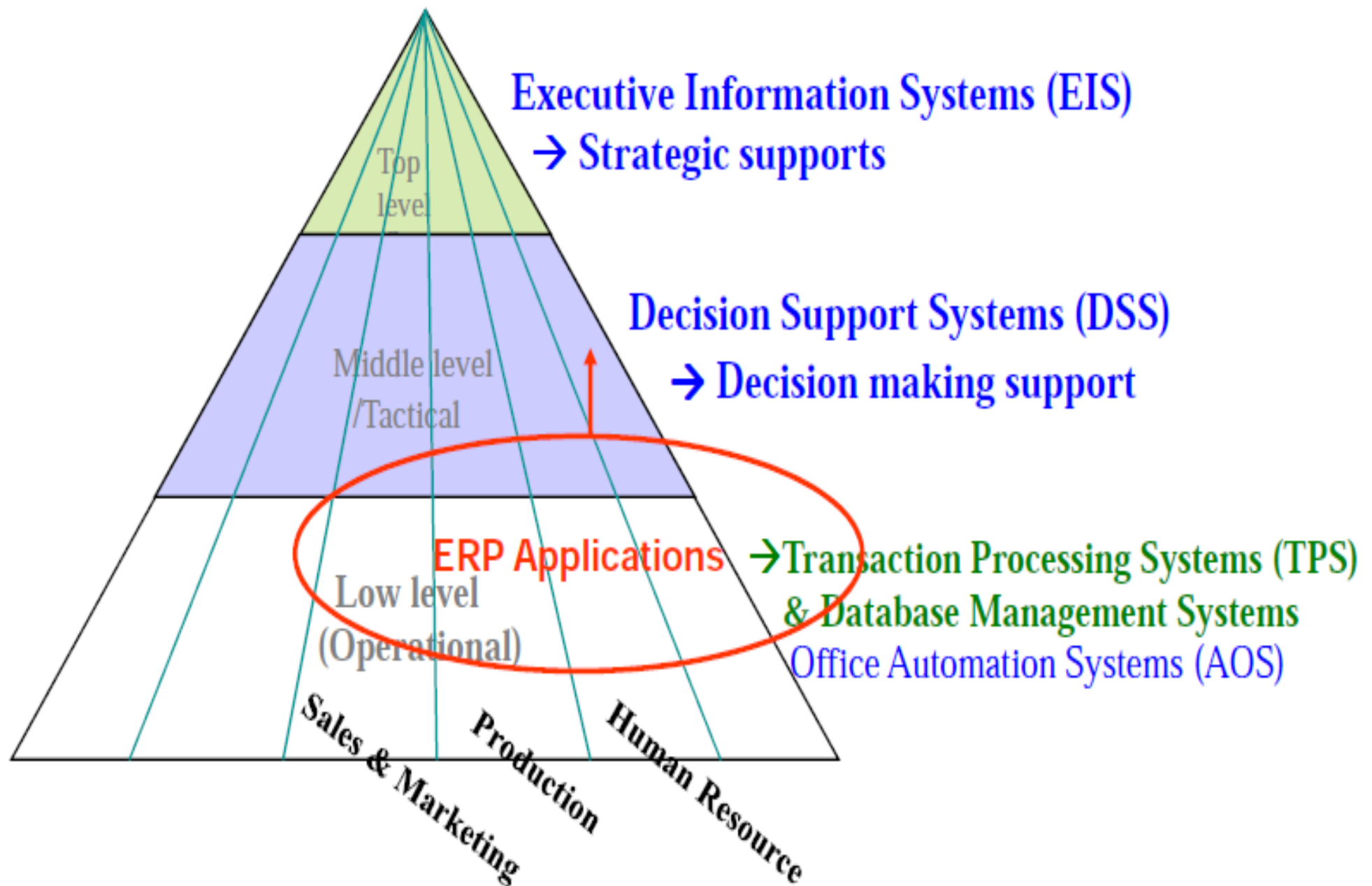


Integrated

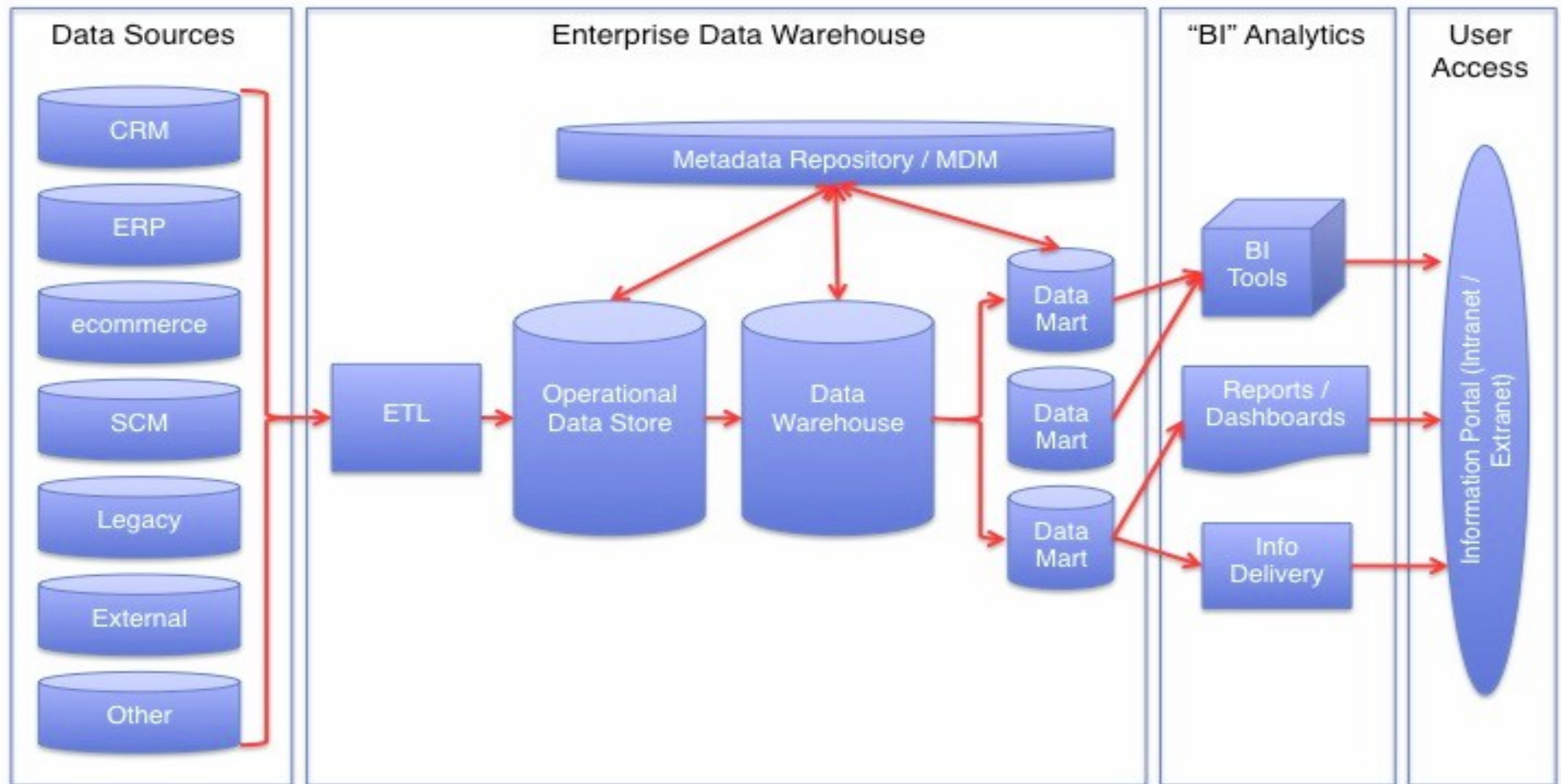


Enterprise System Evolution









ETL (Extract Transform Load)

DATA SOURCES

Legacy Systems,
Production Applications,
Heterogeneous Joins,
Federated Views,
Other Sources



Database



Flat Files



SaaS
Systems



Message
Queues



Legacy
Applications



Unstructured
Data

...And More

HTTP, HTTPS, FTP



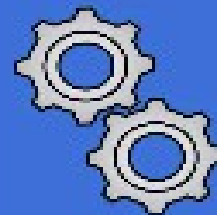
TCP/IP

DATA WAREHOUSE/ODS

Real-time and Batch Updates,
Data Aggregation and Remediation

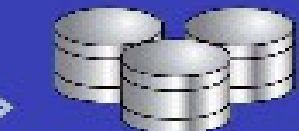
High-Volume
Batches

Real-Time
Transactions

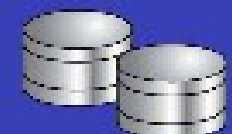


Robust
Transformation

Deep
Validation

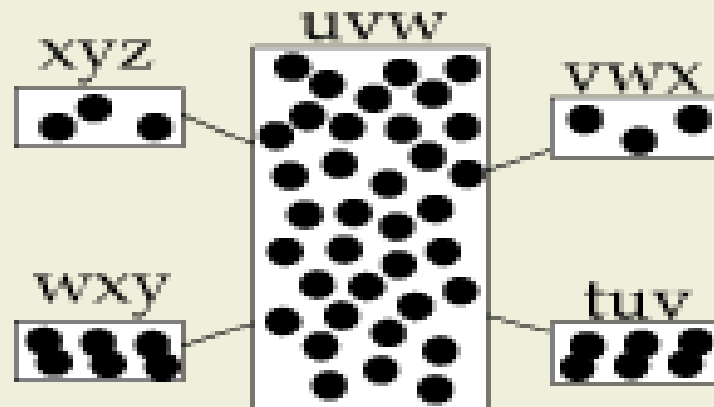


Data Warehouses

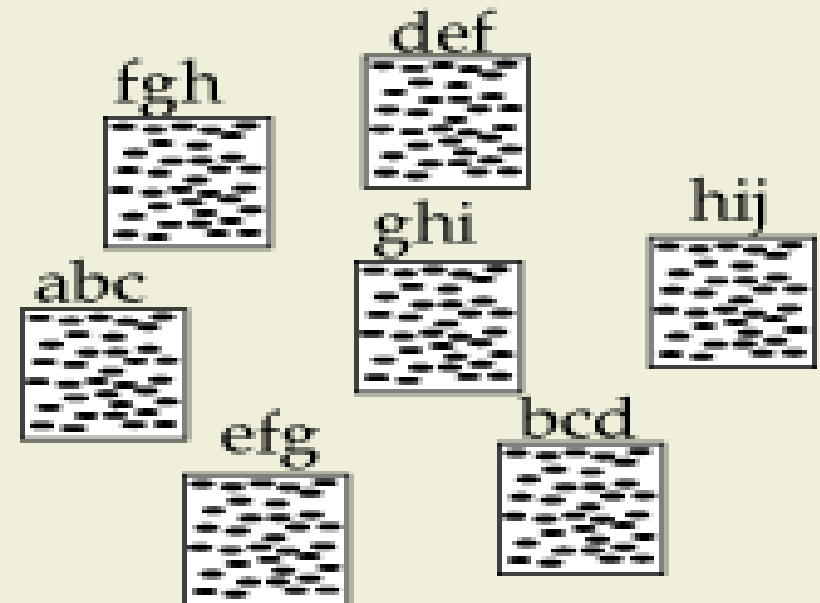


Operational
Data Stores

The Structure of a Data Mart



The Structure of a Data Warehouse



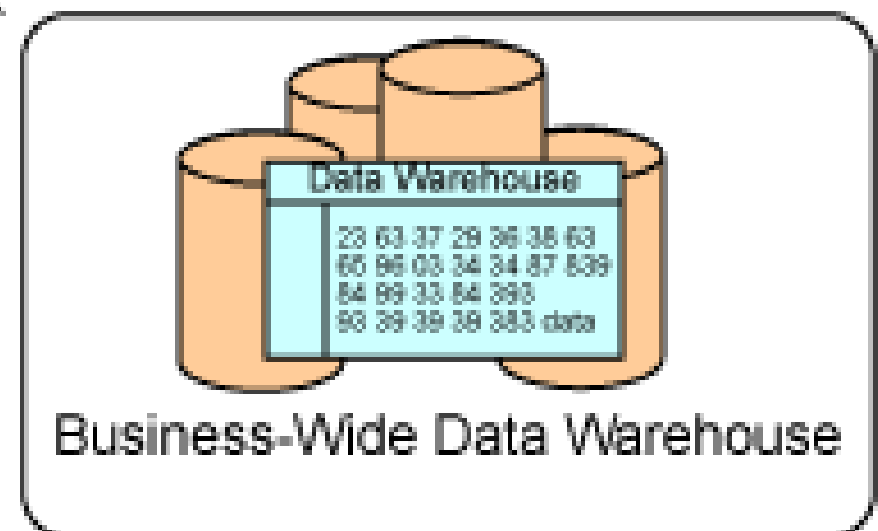
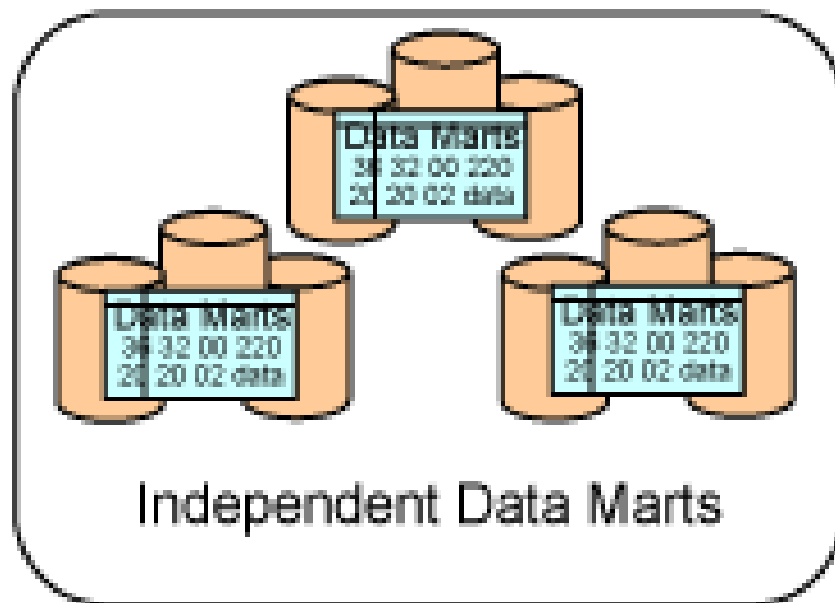
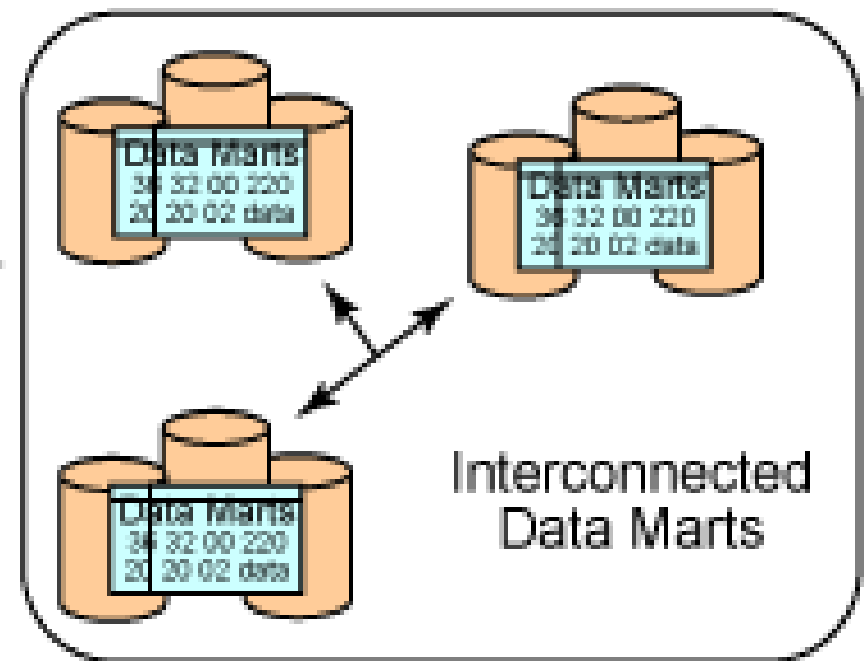
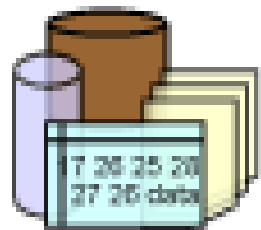
A DATA MART

- departmental
- high level of granularity
- star-join structure
- optimal for farmer's processing
- modest amount of historical data
- technology optimal for access and analysis
- each department has a different structure
- highly indexed

A DATA WAREHOUSE

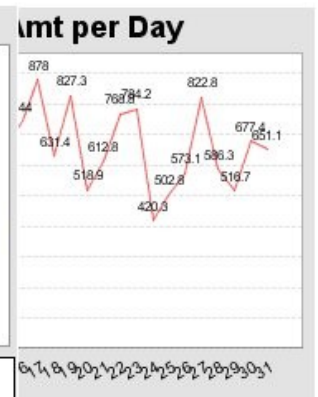
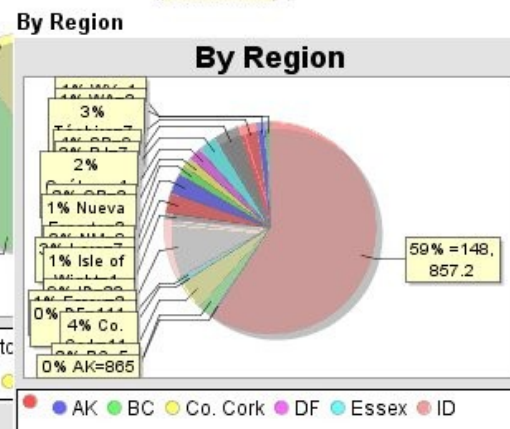
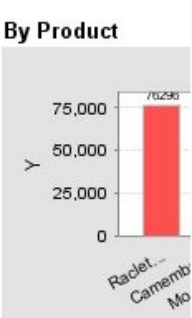
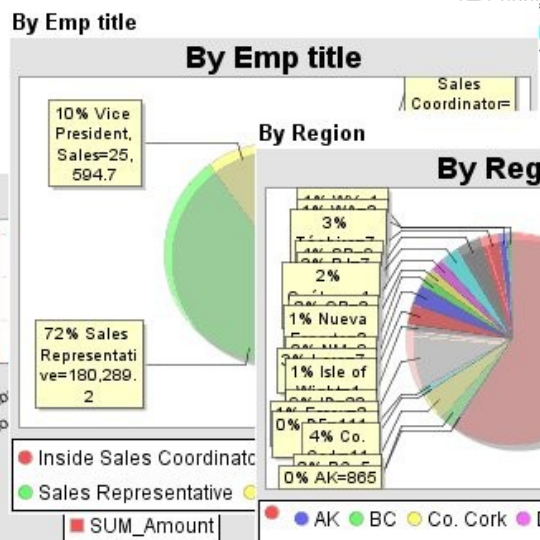
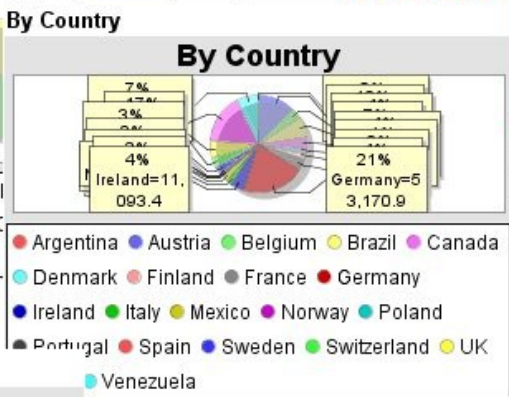
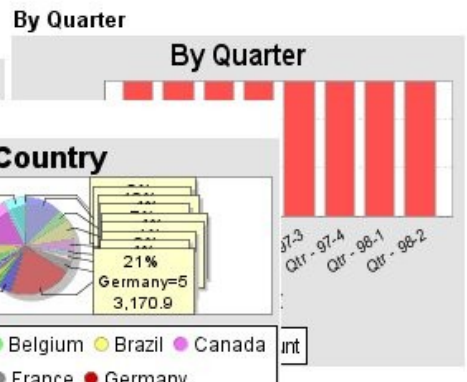
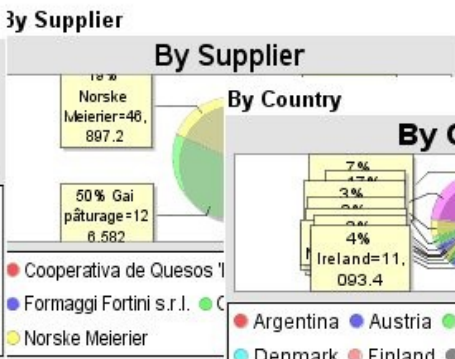
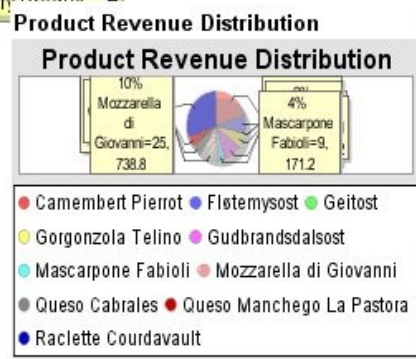
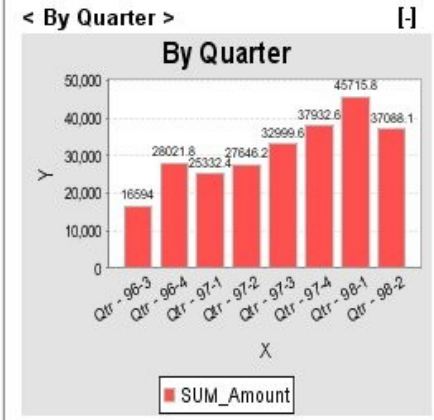
- corporate
- lowest level of granularity
- normalized structure
- optimal for explorer's process
- robust amount of historical data
- technology optimal for holding, managing massive volumes of data
- structure suits corporate understanding of data
- lightly indexed

Business and
external data
sources



Order Management Analytics

Or_Year: ALL Values From Order Date: 01-Feb-1994 To Order Date: 26-Feb-2010 Category Name: Dairy Products







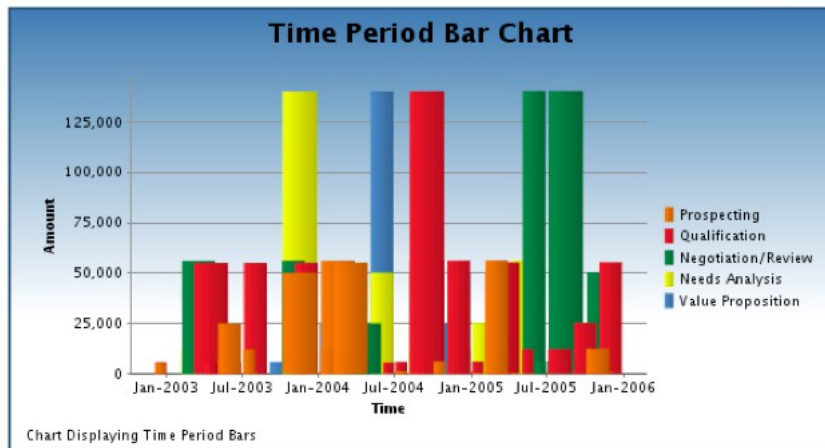
View ▾

Manage ▾

Create ▾

Dashboard Viewer

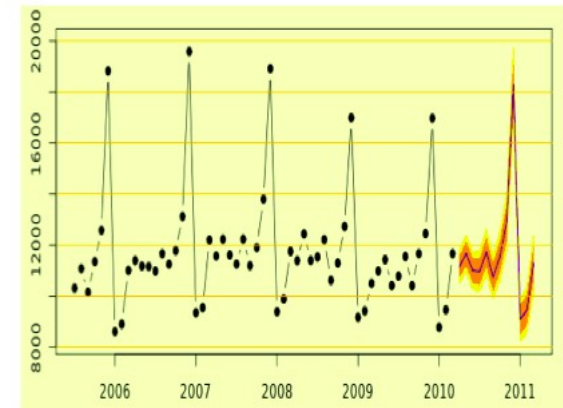
Amount by Time



Revenue

Start Month End Month

Predicted Sales



Amount by Country

	2004	2005	2006	Totals
Canada	136.00	1,689.00	374.00	2,199.00
Denmark	41.00	810.00	544.00	1,395.00
France	663.00	2,446.00	1,128.00	4,237.00
Germany	1,823.00	6,203.00	3,258.00	11,284.00
Ireland	381.00	1,016.00	1,359.00	2,756.00
Italy	52.00	438.00	373.00	863.00
Norway	94.00	52.00	130.00	276.00
UK	566.00	1,017.00	1,370.00	2,953.00
USA	1,728.00	5,826.00	6,220.00	13,774.00
Country Totals	5,484.00	19,497.00	14,756.00	39,737.00

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- » 'Secret Avengers' to gain new member
- » Parker's 'Hulk' will be sci-fi in nature
- » 'Walking Dead' heads straight to digital
- » Moretz set to play 'Emily the Strange'
- » Ruffalo to play both Banner and Hulk
- » Norton wants role in Nolan's 'Batman 3'
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