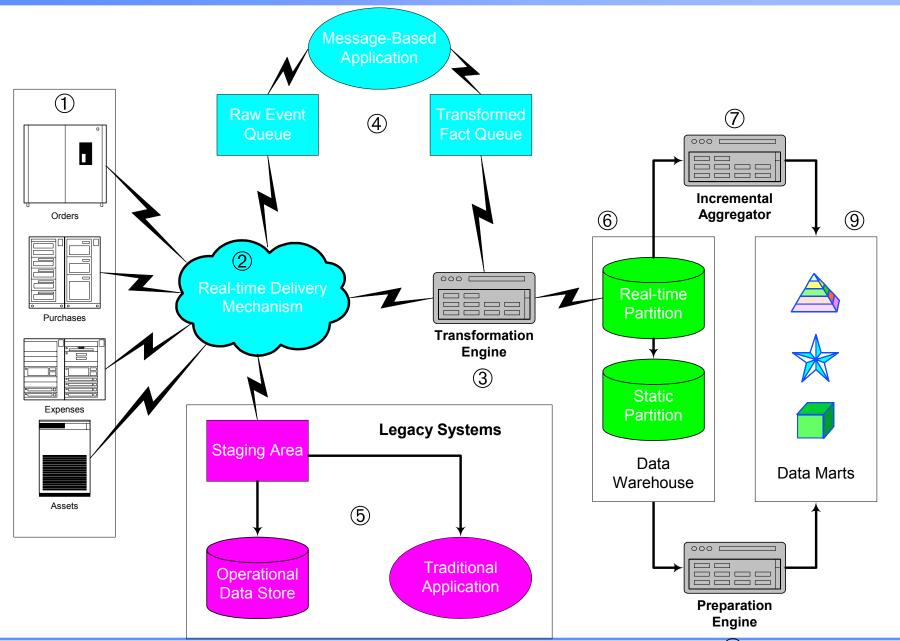


Michael Haisten

Daman Consulting

Agenda

- ➤ Real-Time DW Overview
- > A History of Business Intelligence
- ➤ The Evolution of eBI
- Closed Loop Analysis
- Real-Time DW in Detail
- ➤ A Real-Time Example



A History of Business Intelligence

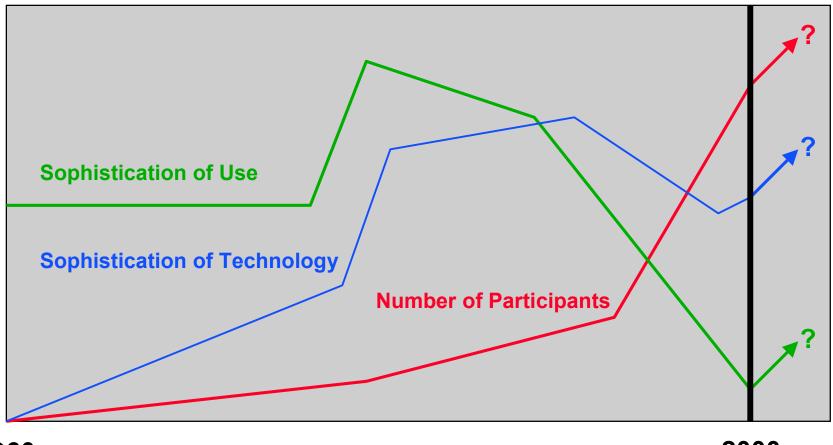
- Pre-Computer Era -> Business Planning
- Data Processing Era → Analytic Services
- Info MIS Era → End-User
 - Info Tech Computing
 - Client/Server Era -> Decision Support
 - Early Internet Era → "Business Intelligence"

eBusiness The Alistorical Life Belsiness Planning

Info Tech

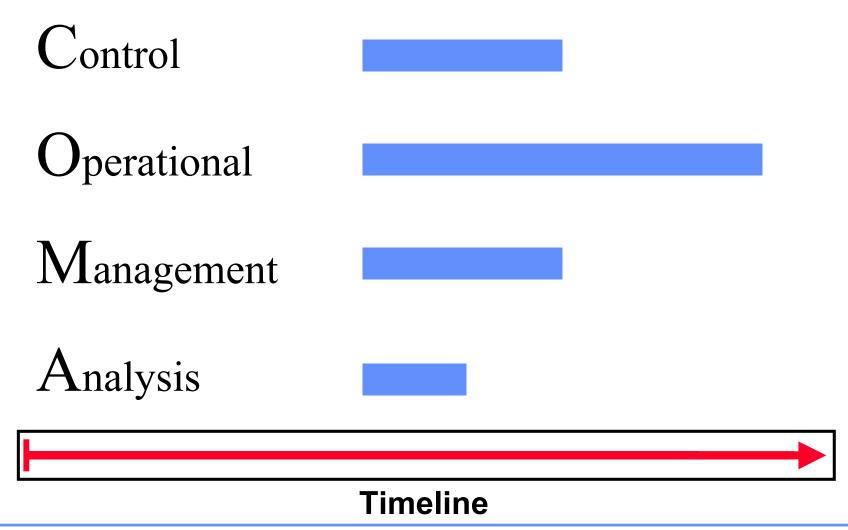
BIZ

Business Intelligence Trends



1960 2000

Sophistication of Use



Sophistication of Technology

Multi-Dimensional Systems Tabular 4GL/Databases Query Languages & SGML

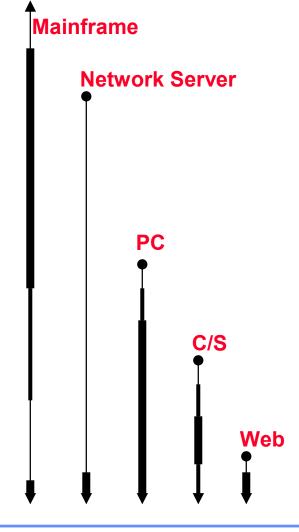
Networked Solutions Relational Databases Spreadsheets Graphical Query Tools

Client/Server Applications Component Solutions (OOD) Web Applications 1970's

1980's

1990's

REINVENTION



Putting the e in eBI

Economics

Finding the road to profitability.

.Com return to fundamentals.

Click and Mortar allocations.

Managing the diverse streams.

Exploration

Uncovering opportunities.

Tracking the customer lifecycle.

Seeking meaningful patterns.

Creating new businesses.

Exploitation

Building a closed-loop process.

Exploiting the time factor aggressively.

Step-by-Step™ DW Development Lifecycle

Establish the Program	 Develop the Rationale Target the Opportunities Define the Architecture Create the DW Program
Prepare the Project	5. Plot the Project Tasks6. Establish the Infrastructure7. Procure the Tool Kit8. Assemble the Team
Initiate the Database	 9. Investigate Consumer Needs 10. Triage the Source Elements 11. Model States and Dimensions 12. Design the Database 13. Acquire Source Data 14. Populate the Database
Explore the Data	15. Iterate Base Table Design16. Explore Consumer Usage Interactively17. Tune Collection Design18. Plan Cycles and Production Migration
Implement the Deliverables	19. Prepare for Release20. Train the Consumers21. Initiate Support Processes22. Migrate to Production
Expand the Environment	23. Manage the DW Inventory 24. Synchronize with Evolving Business Needs 25. Evangelize Endlessly 26. Do it Again!

BI Process Lifecycle – TQM Analogy

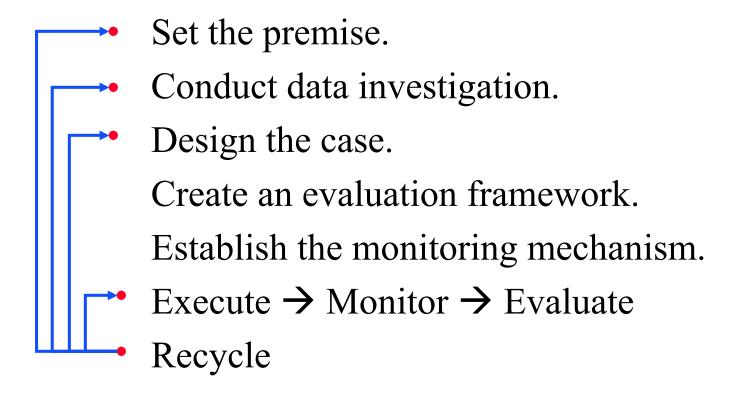
Plan Set goals and execution tactics.

Do Implement the tactics.

Check Evaluate the results.

Act Continue as is <u>or</u>
Stop all activity and reconsider <u>or</u>
Modify the tactics or the goal and
Do it again tomorrow.

BI Process Lifecycle – Closed Loop Analysis

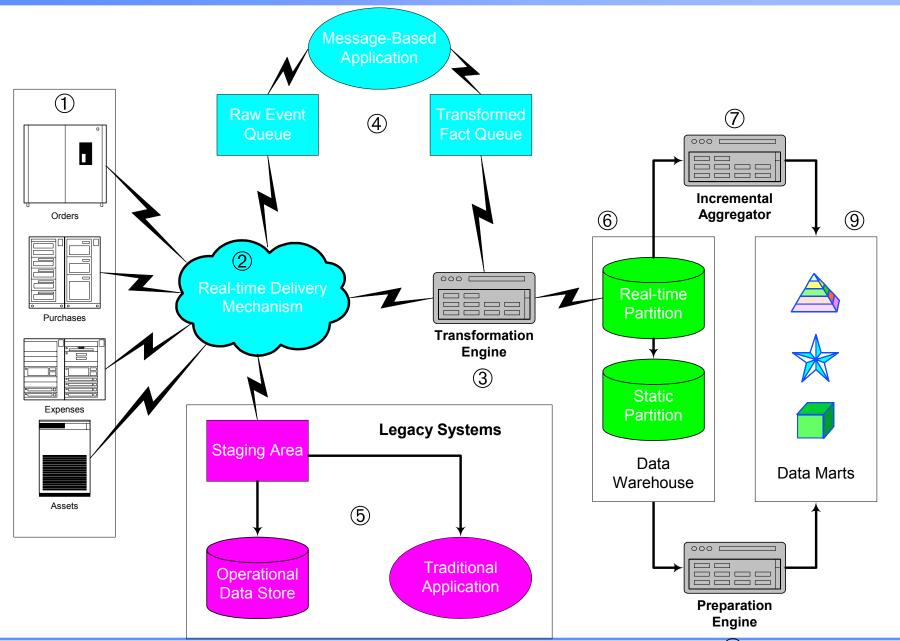


In eBusiness, closed-loop analysis is the business.

Why Real-Time?

- Perfect Capture
- Quick Reconfiguration
- Time Compression
- Transitory States
- Infinite Snapshots

Real-Time DW provides so much more than Real-Time Data!



Components of a RTDW Environment

- Real-Time Capture
- Real-Time Delivery
- Transformation Engine
- Message-Ready Targets
- Real-Time DW Partitioned Data Store
- Incremental Aggregator
- Preparation Engine

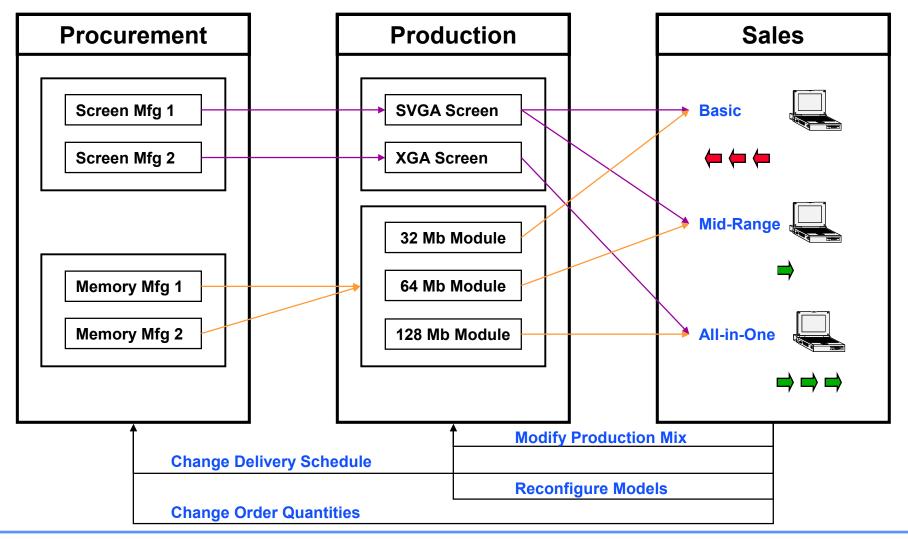
Real-Time Capture

- Transaction Mirroring
- Template-Enabled Event Capture
- DBMS Triggers
- Custom Event Traps

Eliminate the E and L in ETL.

An Example

Build-to-Order Laptop Manufacturer





Putting Intelligence back into Business Intelligence.

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