

## IBM Data Management

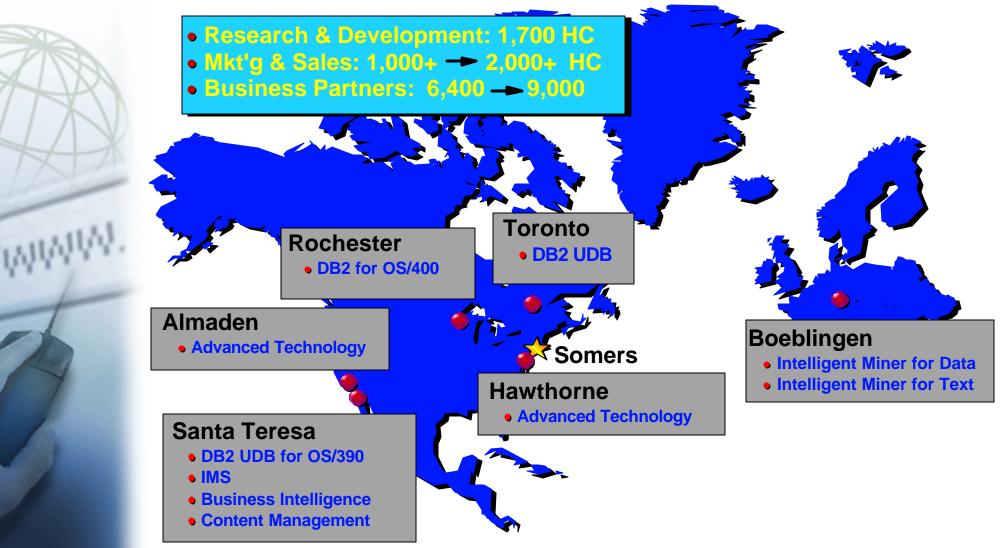
Brant Davison Product Manager IBM Data Management



<b>@</b>	What is a database?				
e-business					
	Format	file	any		
TIDA	Location	local	federated		
1DD	Clients	dedicated	pervasive		
DAM	Applications	transactions	operational and informational		
WWWWW.	Application Support	data access	business rules		
7	Scale	fixed	dynamic		
	Hardware Architecture	uni-processors	all kinds of parallel		
	Integration	proprietary	vendor independent		
IIV.	Content	alpha-numeric	rich, standard objects, indices		

## **e** IBM's data management team

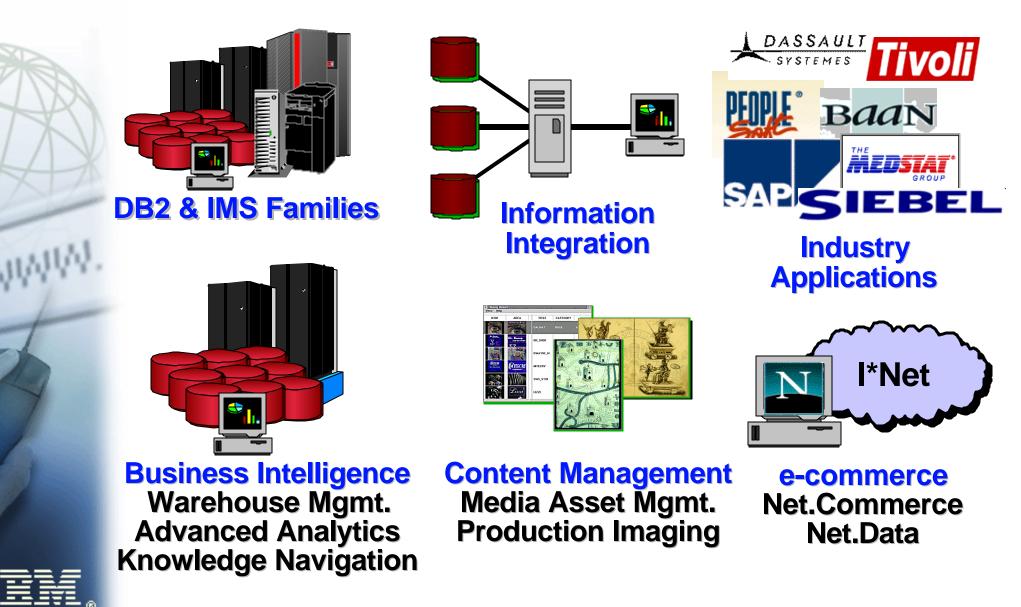
#### e-business

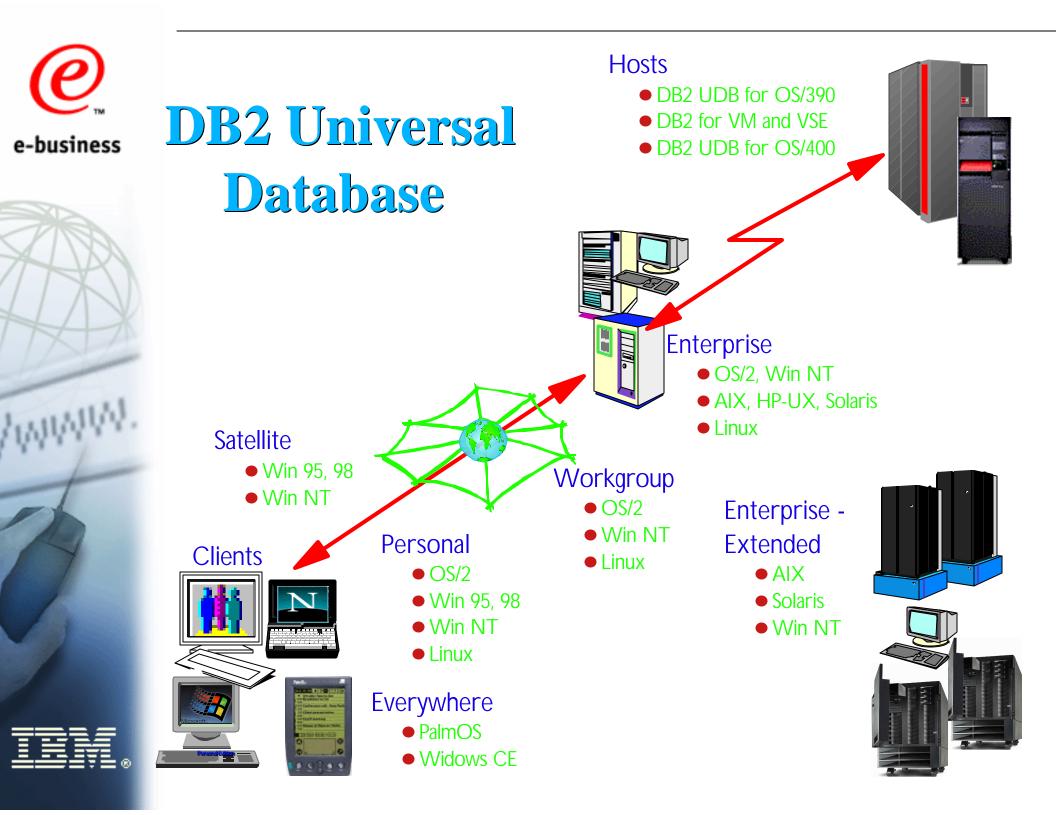


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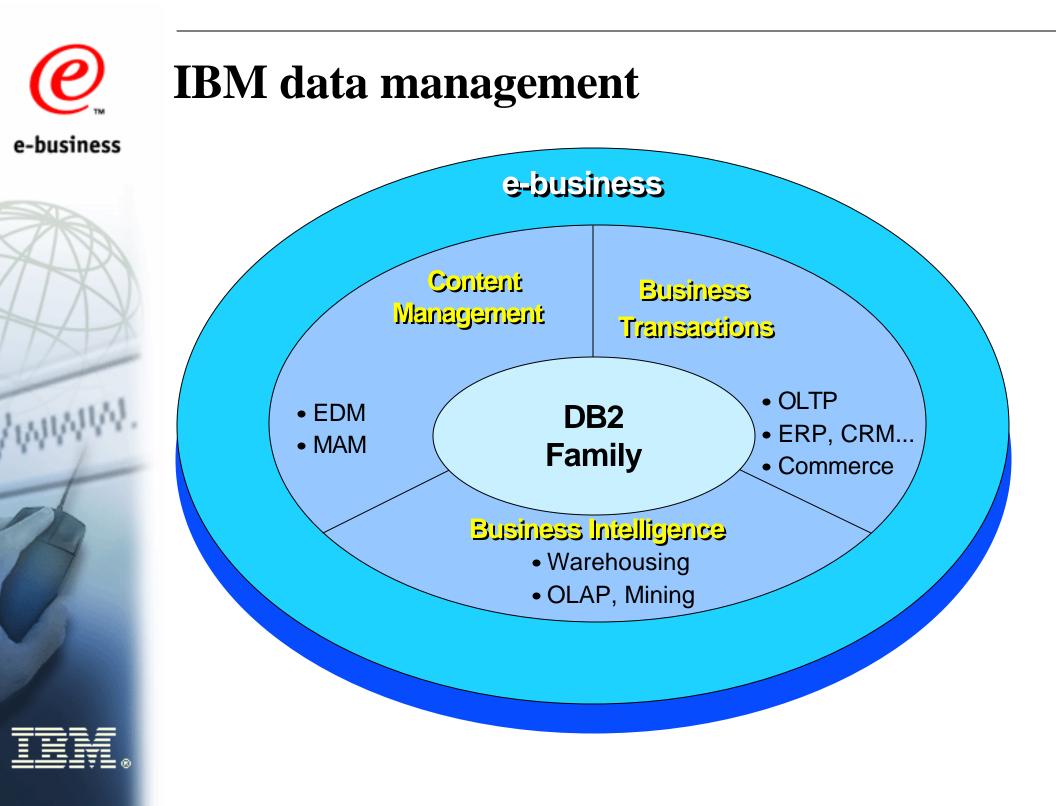


### IBM data management - investment areas

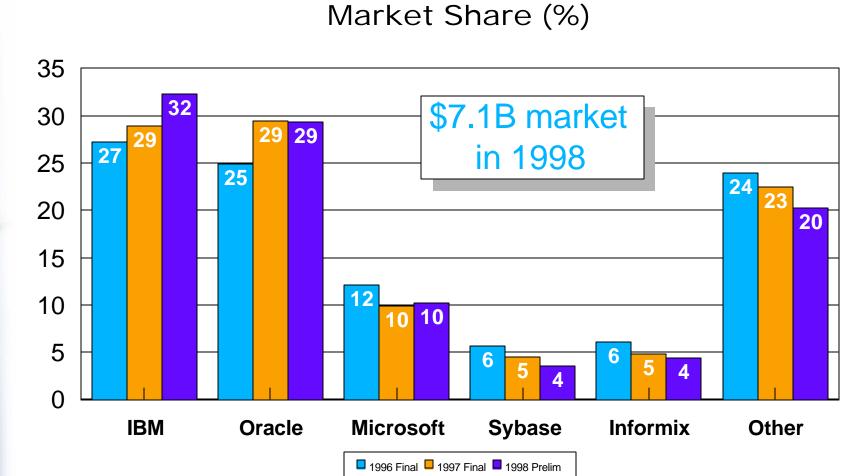




e-business	and e:	xperier	n techno nce	merci	e, Bl e-business on	
TWWWW.	Solution for Integration olid e-busing	ocused - Cl with IBM's ess foundations foundations foundations foundations	<b>1997</b> ✓ Web access ✓ Control Center ✓ SMP parallelism	1998 SQLJ Solution Solution Spatial extender Web appl. servers	<ul> <li>✓ OLE DB</li> <li>✓ Web AD and Mgr</li> <li>✓ Portability enhancements</li> <li>✓ Integrated analys</li> </ul>	mt.
	<ul> <li>1995</li> <li>✓ Optimization</li> <li>✓ Rich objects</li> <li>✓ Cross platform</li> <li>✓ Cluster parallelism</li> <li>+++</li> </ul>	✓ Java SP ✓ Java UDFs	<ul> <li>Sysplex parallelism</li> <li>Data mining</li> <li>Document mgmt.</li> <li>Baan</li> <li>+++</li> </ul>	More		ting the and scale s and partners
TEN.			1	Marketing. sa	ales, suppo	ort investment



#### **Worldwide Database Market Revenue** Share e-business



Source: Dataguest Postings on Business Wire (3/17/98, 3/22/99)

## e-business

## 1998 business highlights

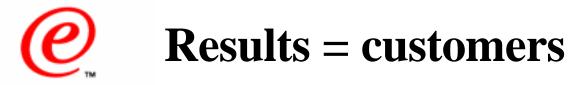
Market Penetration

- 1.1M+ DB2 Servers
- ► 40M+ Users; 225,000+ Companies

#### Revenue Growth for DBMS

► IMS	12%
DB2 for OS/390	15%
DB2 for AS/400	20%
DB2 for UNIX	70% (700% on Sun Solaris)
DB2 for NT	100%
Warehouse Mgmt.	42%
BI Analysis Tools	25%
Content Mgmt.	293%

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e-business

### www.software.ibm.com/casestudies



## **@**

## 1H 1999 business highlights...

e-business



Revenue growth for DBMS ('98)	8-'99)
DB2 for OS/390	14%
► IMS	4%
DB2 for AS/400	12%
DB2 for Unix	45%
► DB2 for NT	54%
Business Intelligence	13%
Content Management	34%
Channel driven revenue share	
Unix and NT	41%

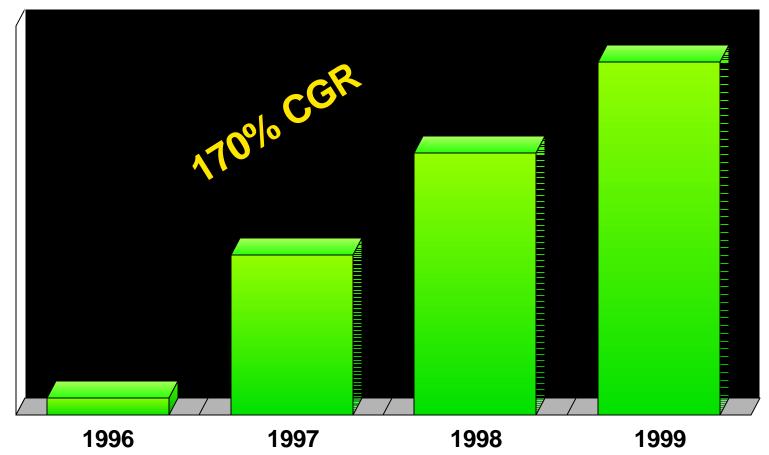
2nd quarter = largest absolute quarter ever for distributed...

## Increase in marketing spending

e-business



#### Marketing \$\$

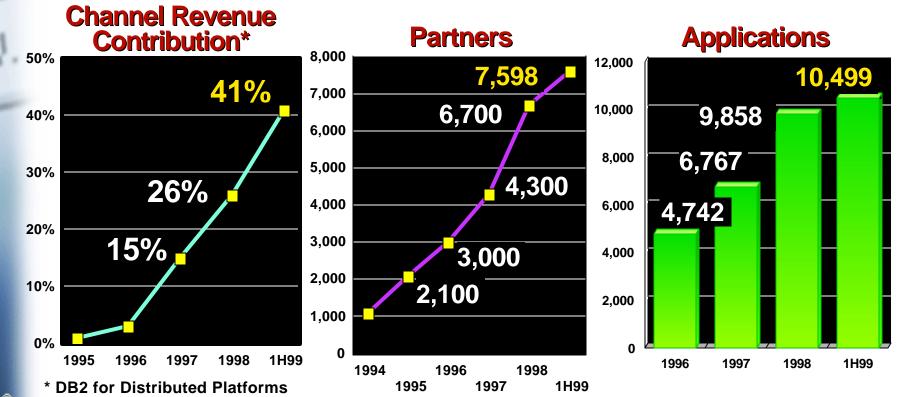


## **Business partners**

e-business

#### Increased Investment (1996 through 1H99)

- 200+ additional sales people
- 140+ additional technical staff
- 35x increase in programs
- Resulted in increased:



INN.

# e-business

## **DB2 Universal Database - over 1,800 NT applications**

"...Microsoft reports that ISVs have developed more than 600 applications for SQL Server 7.0...Six hundred is an impressive figure until you compare it to Oracle's or IBM's numbers..."

Support, Visualization, and Verticals By Hugh Willoughby-Davis SQL Server Magazine

July 1999



## **1999 deliveries**



- DB2 Universal Database for S/390 V6
- DB2 Universal Database for NT, UNIX, LINUX, OS/2
- DB2 Everywhere
- DB2 KnowledgeX
- DB2 OLAP Server V1.1
- Coming soon...
  - DB2 Satellite Edition
  - Business Intelligence
    - Intelligent Miner for Data
    - Intelligent Miner for Relationship Marketing
  - Data Integration
    - DataJoiner
  - ► IBM Content Manager
  - IBM Enterprise Information Portal

## May DB2 UDB V6.1 recap

- Continuing to extend DB2 UDB to power the world's e-business solutions
  - ► Faster, easier application development and enhanced manageability
    - tools, tool integration
    - constraint relief
    - performance
  - Extending the reach of DB2 to pervasive devices
    - DB2 UDB Satellite Edition
    - DB2 Everywhere
  - Partnering for solutions
    - Siebel
    - SAP, PeopleSoft, Baan
  - New migration options
    - Tools and compatibility
  - New platforms
    - Linux
    - Sequent
  - New pricing for e-business
    - per processor
    - unlimited users

## **Extending the reach of e-business**

e-business



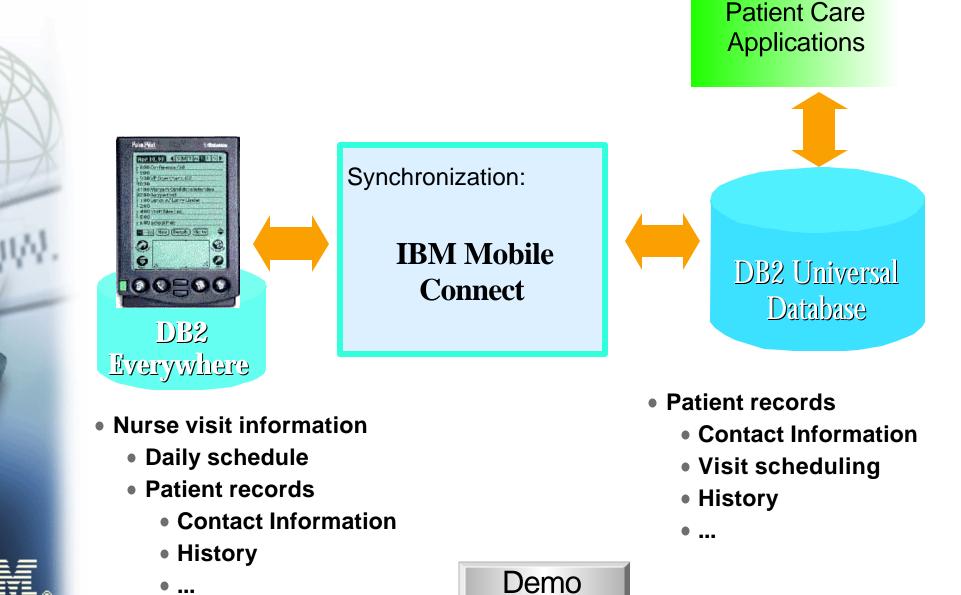
#### DB2 UDB Satellite Edition

- ► DB2 UDB engine
- Small footprint (8MB RAM, 30MB Disk)
- Transparent install for mass deployments
- Centralized administration capabilities
- Robust, proven and scalable replication
- Available this month

#### DB2 Everywhere

- Small footprint (50K)
  - subset of SQL
  - relational indexing
- IBM Mobile Connect for synchronization
  - relational data, Notes, PIMs
- Available Now

## **DB2** Everywhere demo scenario...



## **O** e-business **DB2 Everywhere**

Software available as a free download from the web

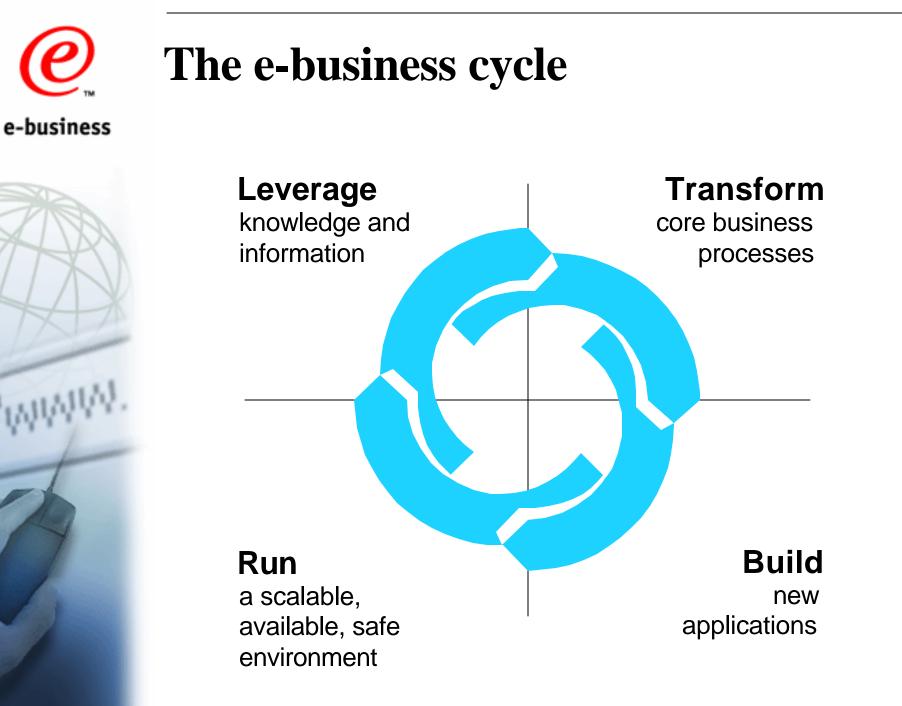
Visit the DB2 Everywhere Web site at

http://www.software.ibm.com/data/db2/everywhere/ for your free download, including product code, sample programs, demos and more!

## September BI software announce recap



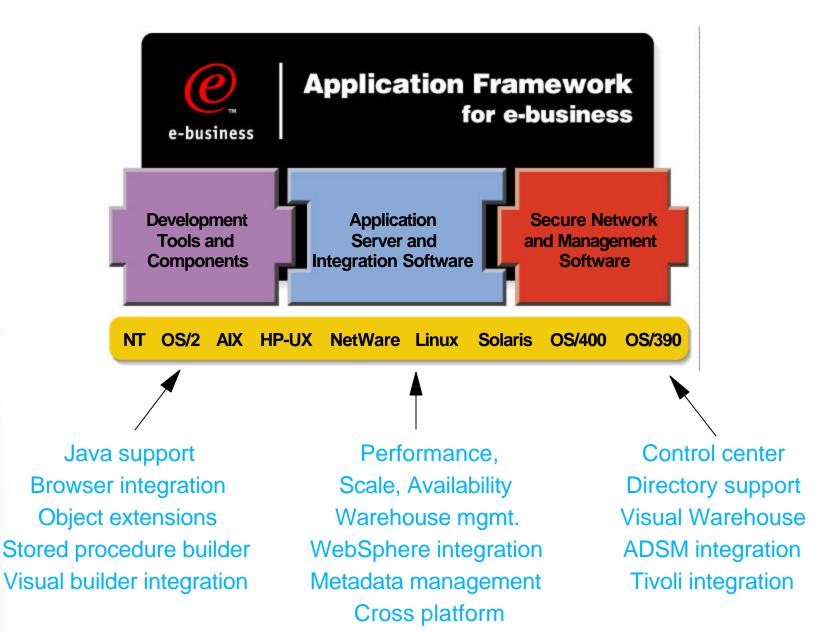
- ► Corporate campaign
- ► New tools for e-business analysis and insights
  - DB2 Intelligent Miner for Data Version 6.1
    - DB2 Intelligent Miner for Relationship Marketing Version 6.1
  - DB2 OLAP Server Version 1.1
- Enhanced data integration
  - DataJoiner access to NCR/Teradata
- Solutions to speed implementation and ROI
  - IBM Fast Start Program for bi
- Standards leadership
  - Metadata management
  - Mining
- Business Intelligence partnership initiative growth
  - Largest initiative in the industry

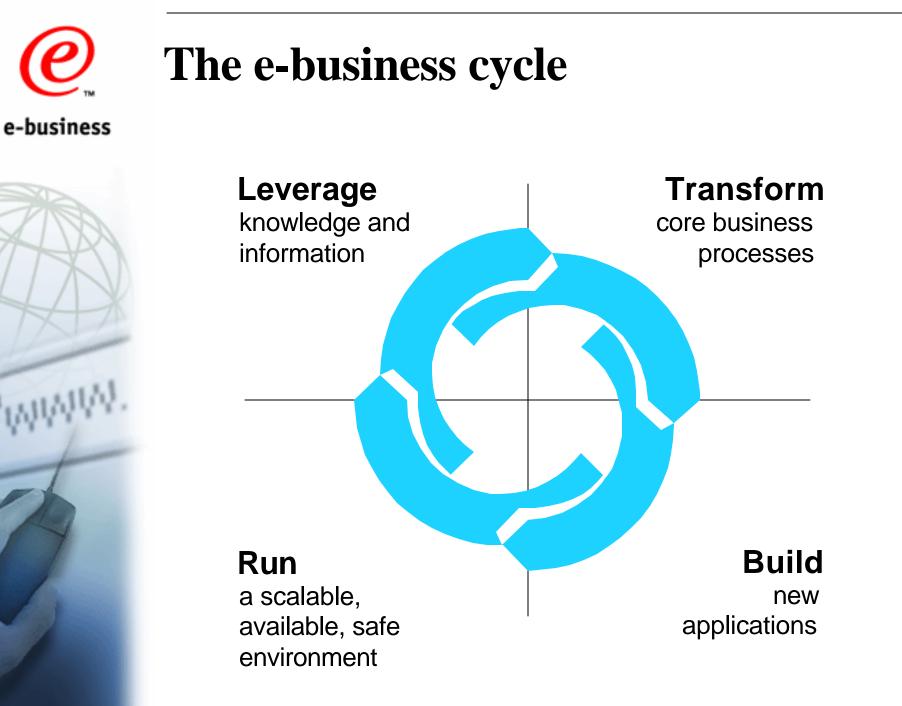


IBM.

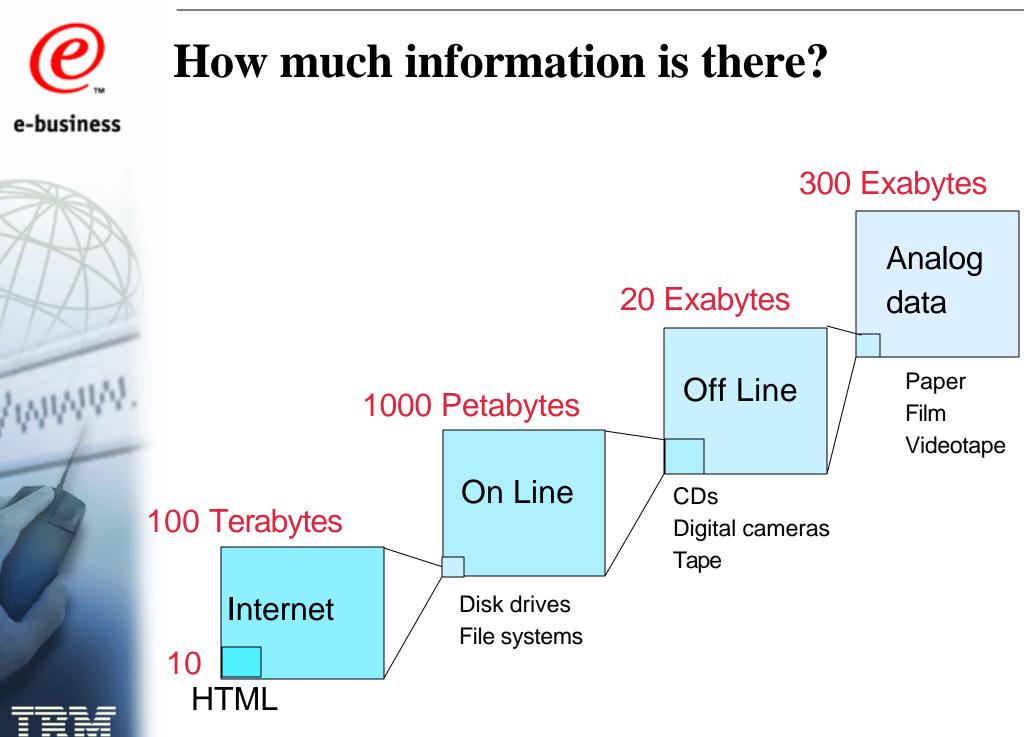
## DB2 and the application framework

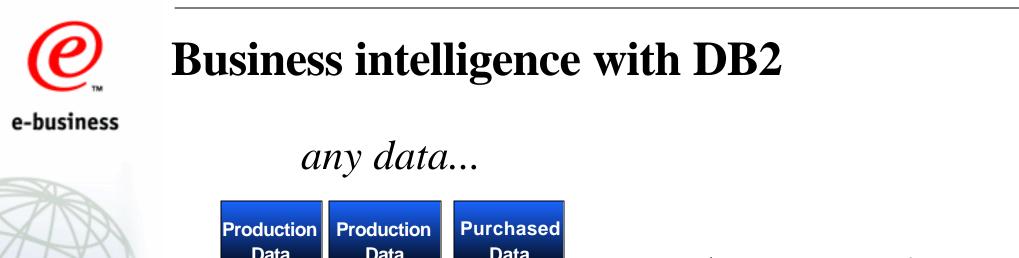




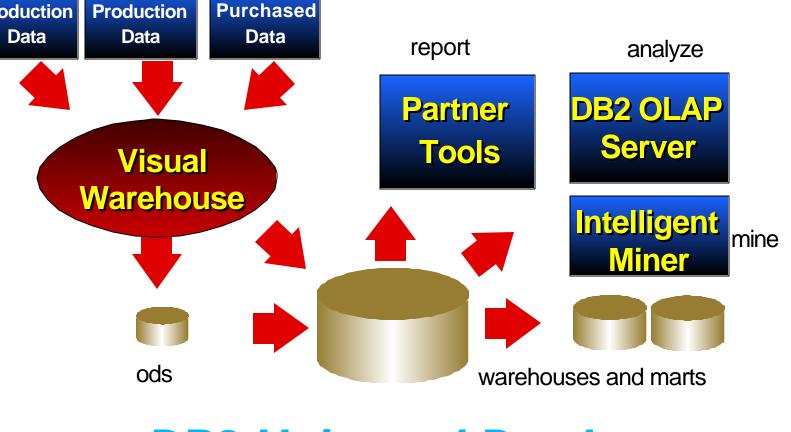


IBM.





MIMIM



**DB2** Universal Database

any user...

## Benchmarks

e-business



### TPC-D Benchmark Dominance

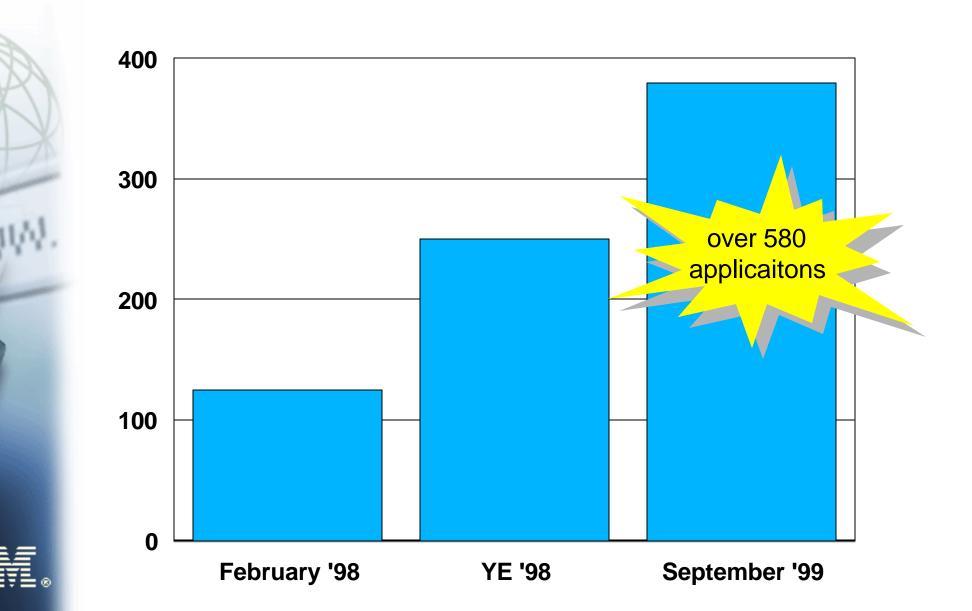
- ► 30GB, 100GB, 300GB, 1TB
- Compaq, Netfinity, RS/6000, Sun
- Concurrent users and mixed workloads

Summary of Results 2/15/98 - 2/15/99

TPC-D Leadership @ 100GB (SMPs), 300GB, and 1TB	DB2	NCR	Oracle	Informix
Power leadership in months	15	12	6	3
Throughput leadership in months	23	6	4	3
Price/Performance leadership in months	26	2	2	6
Total # of months at the top	64	20	12	12

IIM.

## IBM business intelligence partnership initiative



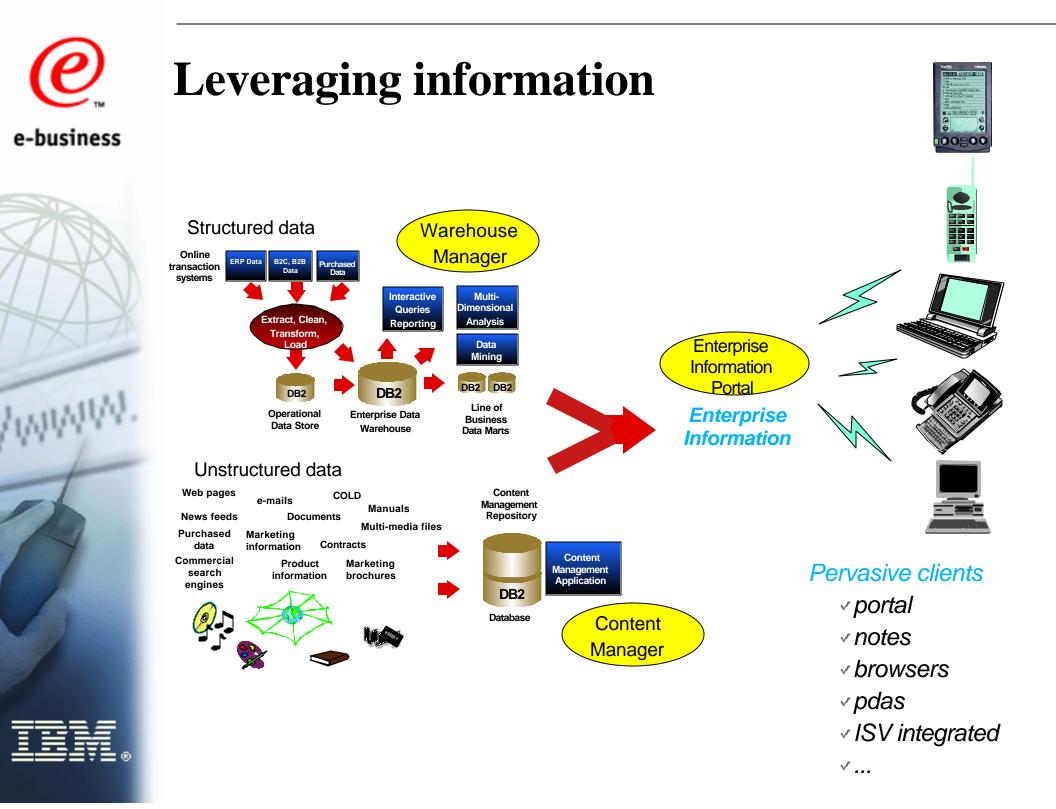
#### Leveraging information e-business Structured data Warehouse Online Manager Purchased ERP Data B2C, B2B transaction Data Data systems Interactive Multi-Dimensional Queries Extract, Clean, Analysis Reporting Transform, Data Load Enterprise Mining Information DB2 DB2 Portal DB2 DB2 WIMIM Line of **Enterprise** Operational **Enterprise Data Business** Data Store Warehouse Data Marts Information Unstructured data Web pages Content COLD e-mails Management Manuals News feeds Repository **Documents** Multi-media files Purchased Marketing Contracts data information Content Commercial Product Marketing Management search information brochures Application engines DB2

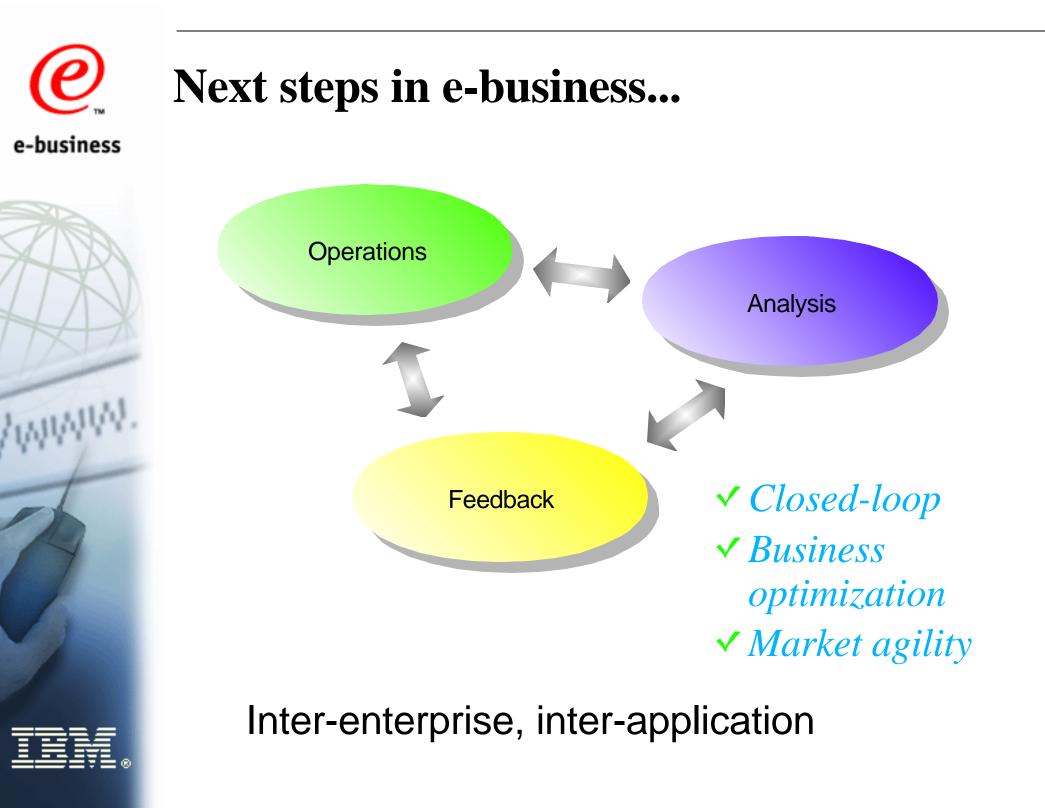
Database

Content

Manager

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## Next steps in e-business...and database

#### e-business



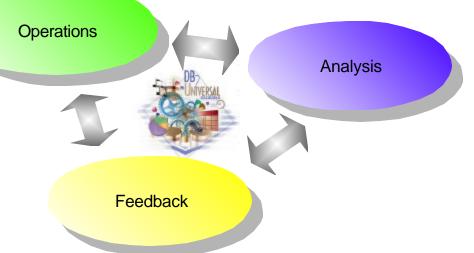
- Operational integration Operations Advanced analysis integrated primitives - performance - integrity Feedback - manageability
- Feedback

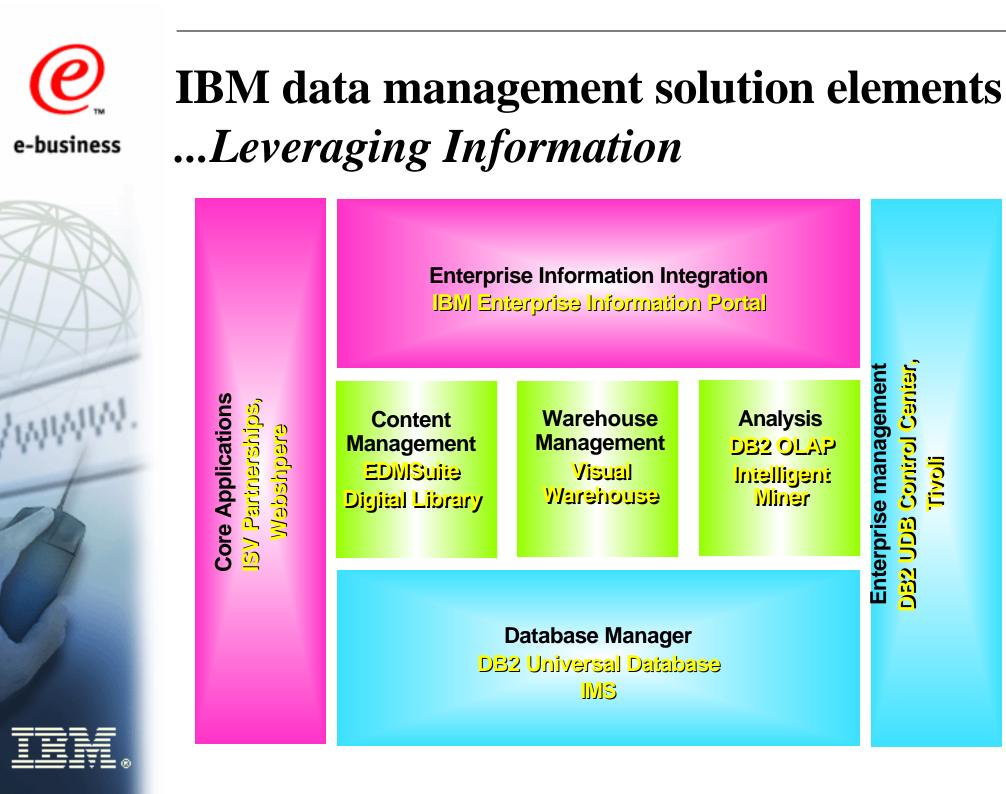
► XML

- Operational execution
- Active reporting
  - Pub/sub

#### Database

- Aggregation management
- Content management
- Knowledge navigation Inter-enterprise, inter-application

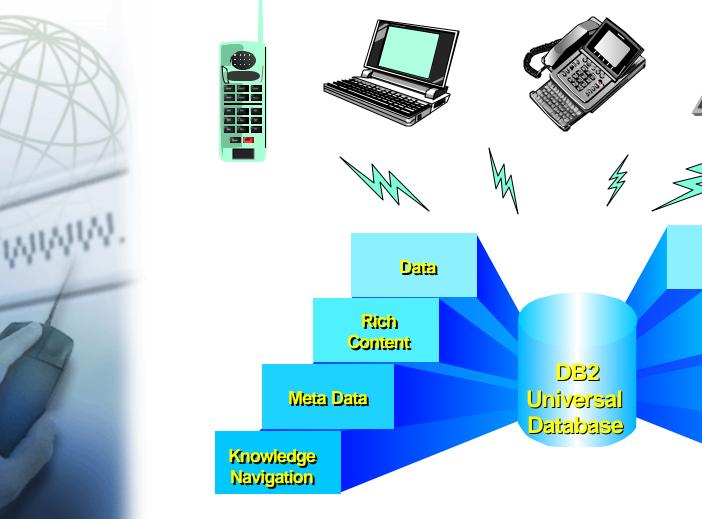




### **DB2** Universal Database

Powering the world's e-business solutions

e-business



CRM

SCM

ERP

Electronic

commerce

managing e-business content to leverage information

