Managing Database ROI with DB2

Mark McConnell
Business Unit Executive
Enterprise Data Management, IBM Software – Asia Pacific

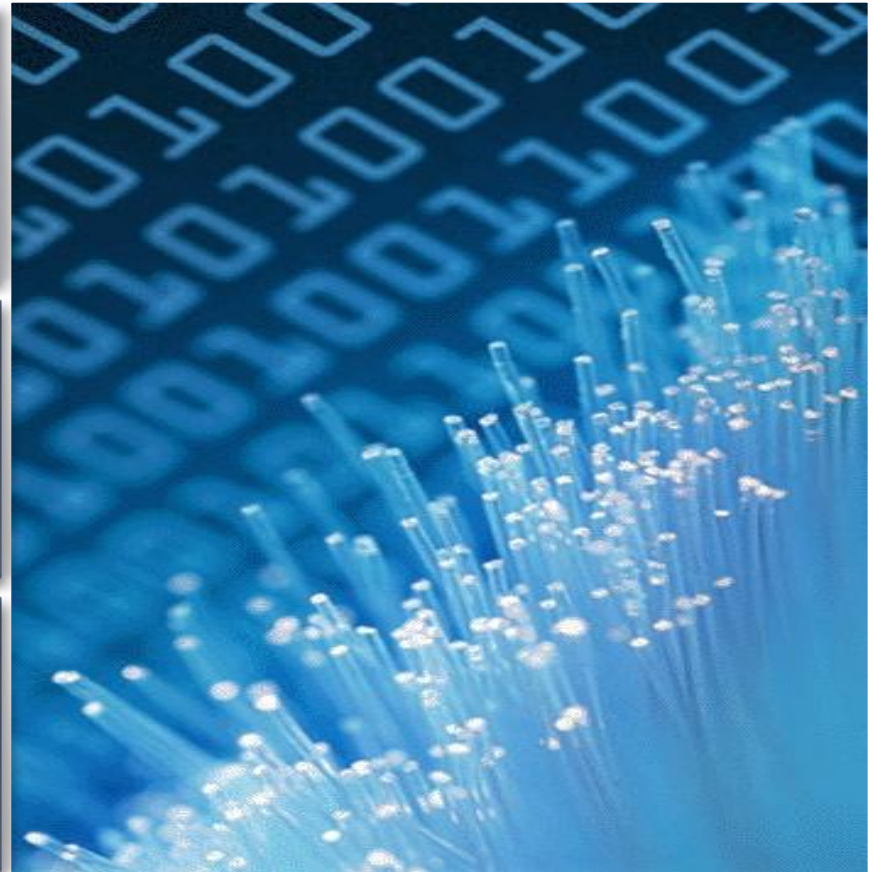# The World Faces Explosive Growth of Information

Volume

- **Every day, 15 petabytes of new information are being generated.**

Variety

- **80% of new data growth is unstructured content, generated largely by email, images and video**

Velocity

- **An average company with 1,000 employees spends $5.3 million a year to find its own information.**

Can Cost of Data be Lowered?

1. Escalating data management costs, compounded by high staffing costs and rising another vendor's Database support and maintenance costs
2. Lack of scalability to meet evolving customer demands and system workloads
3. Inflexible Database virtualization pricing, impacting their ability to realize cost savings from virtualization projects
4. Meeting Service Level Agreements (SLAs) for availability and performance
5. IT staff struggling with ever-increasing demands on their time

Not all databases are created equal…

Difficult Choices!

CIO/IT Manager
How can I do MORE with LESS?

Ask for more discount from the current vendor
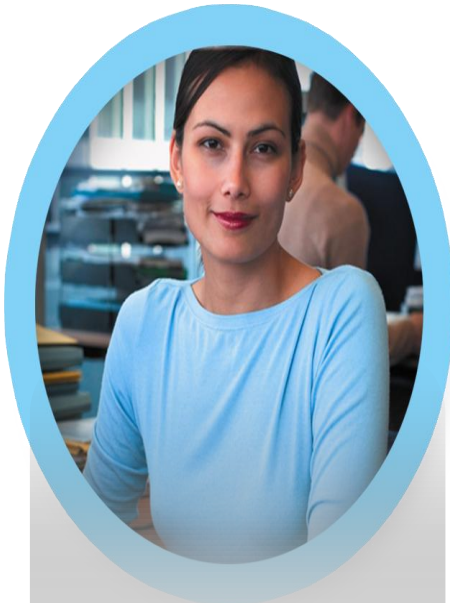
Explore New Vendor!

The FREEDOM to CHOOSE!

Single Vendor Strategy = Reduced BUYER POWER	Dual Vendor Strategy = Increased BUYER POWER
Non-competitive pricing	Best possible pricing
Reduced bargaining power	Increased bargaining power
Locked into one supplier's features/functions/strategy	Choice: Ability to make best decision for the business
Reduced access to innovative technologies	Most competitive technologies
Reduced service levels	Premium services levels
High risk	Low risk (customer has alternative supplier)

Difficult Decision!

IT Executive/DBA

More Databases = More Administration = More Work = More Headache!

•**Is it Safe and More Economical?**

Across the globe, many customers have moved to DB2 and SAVE!

IBM understands the breadth and complexity of workloads facing enterprises today and we've understood it for 40+ years. We know that there are many pieces to the puzzle—from reliability to speed to scalability and security. We also understand that a single approach to systems can't satisfy the specific workload demands of every organization, the solution lies in optimization.

Reliability Proven to Many Thousands of Customers

>10,000 migration from Oracle to DB2 including SAP customers

Options and Features

Oracle Options	DB2 Features
Oracle Advanced Security -- Transparent Data Encryption --RMAN Secure Backup --Authentication services	Optim Database Encryption Expert (Additional) Optim Security Solutions (Additional)
Oracle Secure Backup	Optim Database Encryption Expert (Additional)
Label Security	Label Based Access Control (Additional) (IBM Advanced Access Control)
Database Vault --Restrict DBA Access --Restrict user access to specific Server --Seperation of Duties	Trusted Context (Free) --Restrict DATAACCESS ACCESSCONTROL (Free) --IBM Advanced AccessControl Feature (Free) -- SECADM and Role separation (Free)
Audit Vault	DB2 Audit Facility (Free) Guardium
Diagnostic Pack	Part of DB2 - Health Monitor (Free) -- Activity Monitor (Free) --Data studio Admin console (Free) Optim Performance Manager (Additional Price)
Tuning Pack SQL Access Advisor SQL Tuning Advisor SQL Tuning Sets Reorganize objects	Design Advisor (Free) Query Rewrite (Free)
In-Memory Database Cache (Times-Ten)	SolidDB-Universal Cache for DB2 (Additional)
Active Data Guard	High Availability Disaster Recovery (HADR) (Additional)
Real Application Clusters	DB2 pureScale (Additional)
Partitioning --List --Range --Hash --Composite	Table Partitioning (Free) MDC (Additional) Database partition Featue-DPF (licensed with Infosphere Warehouse)
Change Management Pack	DB2 Look - (Free) IBM Data Studio- (Free) Optim Database Administrator (Additional)
Configuration Management Pack	Configuration Advisor (Free)
Data Masking Pack	Optim Test data management (Additional) Optim Application Developer (Additional)
Provisioning Pack	TBA
Total Recall	Optim DataGrowth Solutions (Archival) (Additional)
Warehouse Builder	Infosphere Warehouse (Additional)
OLAP	IBM Cognos (Additional)
Data Mining	IBM Infosphere Warehouse, SPSS (Additional)
Retail Data Model	IBM DataModels (BDW,RDW,IIW,TDW etc) (Additional)
Spatial	DB2 Spatial Extender (Free) Geodatic Extender (Additional)

9

DB2 Support Platforms

Linux

- Red Hat Enterprise Linux (RHEL) 5
- SUSE Linux Enterprise Server (SLES) 10 and 11
- Linux for System i – SLES 10, SLES 11; 32 bit and 64 bit
- Linux for System i – RHEL 5; 32 bit and 64 bit
- Linux for System p – SLES 10, SLES 11; 64 bit
- Linux for System p – RHEL 5; 64 bit
- Linux for System z – SLES 10, SLES 11; 64 bit
- Linux for System z – RHEL 5; 64 bit

Windows

- 32-bit and 64-bit (x64) Windows Server 2003, Standard Server, Enterprise Server, and Datacenter Editions
- 32-bit and 64-bit (x64) Windows Server 2008, Standard Server, Enterprise Server, and Datacenter Editions
- 32-bit and 64-bit (x64) Windows XP Professional Edition
- 32-bit and 64-bit (x64) Windows Vista Business, Enterprise and Ultimate Editions

DB2 Support Platforms

- **AIX**
  - AIX 5L v5.3
  - AIX V6.1
- **HP-UX**
  - HP-UX 11i v2 for HP Integrity servers (Itanium-based systems)
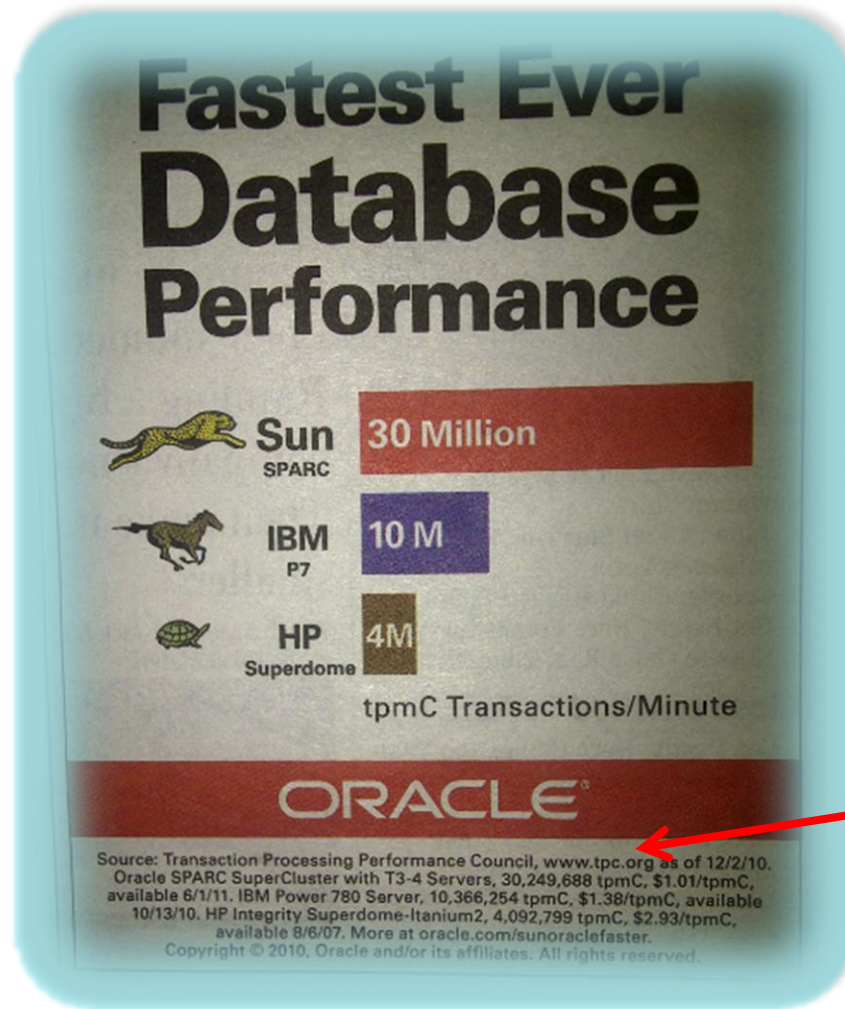 - HP-UX 11i v3 for HP Integrity servers (Itanium-based systems)
- **Solaris**
  - Solaris 9 for UltraSPARC or SPARC64 servers
  - Solaris 10 for UltraSPARC or SPARC64 servers
  - Solaris 10 for x64 servers

Performance

Have you seen this on WSJ ?

www.tpc.org

Latest TPC Benchmarks 31st Jan 2012

TPC Transaction Processing
Performance Council

TPC-C - Top Ten Performance Results
Version 5 Results As of 14-Feb-2011 10:51 AM [GMT]

Note 1: The TPC believes it is not valid to compare prices or price/performance of results in different currencies

○ All Results ○ Clustered Results ○ Non-Clustered Results   Currency | All ▼

USD1.01/tpmc

USD1.38/tpmc

Rank	Company	System	Performance (tpmC)	Price/tpmC	Watts/tpmC	System Availability	Database	Operating System	TP Monitor	Date Submitted	Cluster
1	ORACLE	SPARC SuperCluster with T3-4 Servers	30,249,688	1.01 USD	NR	06/01/11	Oracle Database 11g Release 2 Ent. Ed. w/Real Application Clusters w/P	Oracle Solaris 10 09/10	Tuxedo CFS-R	12/02/10	Y
2	IBM	IBM Power 780 Server Model 9179 MHB	10,366,254	1.38 USD	NR	10/13/10	DB2 9.7	AIX Version 6.1	Microsoft COM+	08/17/10	Y

LOOK INTO THE DETAILS

10,336,254 tpmC   **30,249,688 tpmC**

http://www.tpc.org/tpcc/results/tpcc_perf_results.asp?print=true&resulttype=&version=5%&currencyID=0

Latest TPC Benchmarks 31st Jan 2012

TPC-C Result Highlights As of 14-Feb-2011 10:56 AM [GMT]

IBM IBM Power 780 Server Model 9179-MHB

Benchmark Stats

Result ID:	110081702
Result Status:	Accepted
TPC-C Rev:	5.11
Report Date:	08/17/10

10,336,254 tpmC

System Information

Total System Cost:	14,276,808 USD
Performance:	10,366,254 tpmC
Price/Performance:	1.38 USD per tpmC
TPC-Energy Metric:	Not reported
Availability Date:	10/13/10
Database Manager:	DB2 9.7
Operating System:	AIX Version 6.1
Transaction Monitor:	Microsoft COM+

Server Information

CPU Type:	POWER7 3.86GHz
Total # of Processors:	24
Total # of Cores:	192
Total # of Threads:	768
Cluster:	Y

24 Processors 192 Cores

Client Information

# of Clients:	96
CPU Type:	Intel Xeon - 2.4 GHz
Total # of Processors:	1
Total # of Cores:	4
Total # of Threads:	8

- Executive Summary (415 KB)
- Full Disclosure Report (2434 KB)

http://www.tpc.org/tpcc/results/tpcc_result_detail.asp?id=110081702

TPC-C Result Highlights As of 14-Feb-2011 10:58 AM [GMT]

ORACLE SPARC SuperCluster with T3-4 Servers

Benchmark Stats

Result ID:	110120201
Result Status:	In Review
TPC-C Rev:	5.11.0
Report Date:	12/02/10

30,249,688 tpmC

System Information

Total System Cost:	30,528,863 USD
Performance:	30,249,688 tpmC
Price/Performance:	1.01 USD per tpmC
TPC-Energy Metric:	Not reported
Availability Date:	06/01/11
Database Manager:	Oracle Database 11g Release 2 Ent. Ed. w/Real Application Clusters w/P
Operating System:	Oracle Solaris 10 09/10
Transaction Monitor:	Tuxedo CFS-R

Server Information

CPU Type:	SPARC T3 1.6
Total # of Processors:	108
Total # of Cores:	1728
Total # of Threads:	13824
Cluster:	Y

108 Processors 1728 Cores

Client Information

# of Clients:	81
CPU Type:	Intel Xeon X5670 2.93GHz
Total # of Processors:	162
Total # of Cores:	972
Total # of Threads:	1944

- Executive Summary (327 KB)
- Full Disclosure Report (9451 KB)

TPC Transaction Processing Performance Council

http://www.tpc.org/tpcc/results/tpcc_result_detail.asp?id=110120201
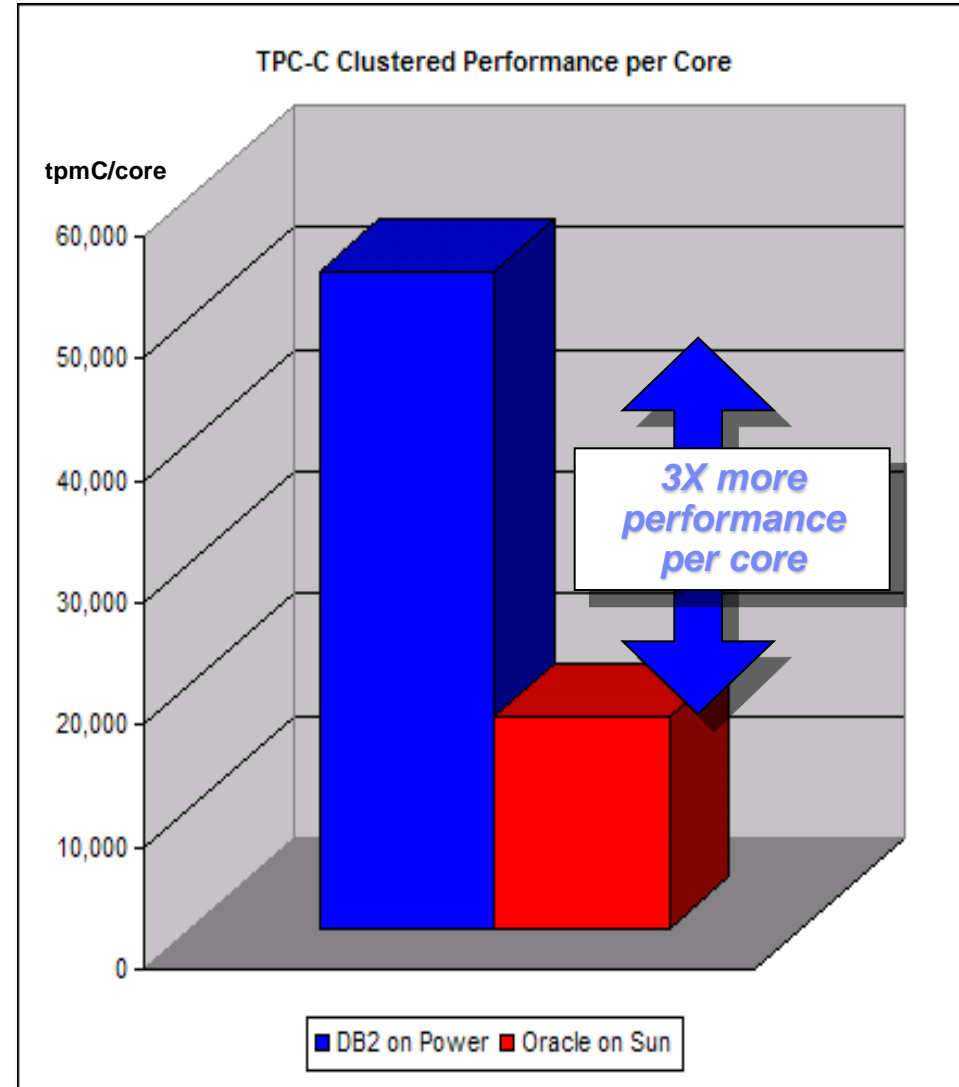
DB2 vs. Oracle on UNIX per Core Performance

- DB2 on 3 64-core Power 780s

- Oracle on 27 64-core SPARC T3-4 servers

- DB2 delivers 3x the per core performance

- Substitute 1 server of DB2 on Power for every 3 servers of Oracle on SPARC

As of 12/02/2010
•**DB2 on 3 64-core IBM Power 780: 10,366,254 tpmC, $1.38/tpmC, Availability 10/13/2010**
•**Oracle on 27 64-core Sun SPARC T3-4; 30,249,688 tpmC, $1.01 /tpmC, Availability 06/01/2011**
•**TPC-C, tpmC and TPC are registered trademarks of the Transaction Processing Performance Council. See www.tpc.org for more details.**

TPC-C Clustered Performance per Core

tpmC/core

3X more performance per core

■ DB2 on Power ■ Oracle on Sun

IBM POWER7 and IBM Software Optimization Advantages

86% lower cost
for DB2 on IBM Power
780 than Oracle on Sun[2]

41% lower transaction cost
On POWER7 than the best
Oracle/Sun TPC-C result[4]

43% less staff
for DB2 on Power 780
than Oracle[5]

40% better utilization
Up to 40% better system
utilization with the latest
compilers, exploiting
POWER7 architecture[3]

73% faster JVM
using a single JVM of
WebSphere on POWER7 vs.
competitive application server
on Nehalem[1]

Database
Applications
Middleware
Hypervisor
Storage
Servers

1 IBM CPO Internal Study
2 As much as 40% improved throughput vs. Power6 for the identify
     duplicates process One example of performance improvement,
     TSM 6.2
3 CPO Study - DB2 on POWER7 Delivers The Most Efficient TPC-C
     Result EVER!
4 IBM POWER7 TPC-C Result: IBM Power 780: 10,366,254 tpmC at
     $1.38USD/tpmC avail 2010/10/13, (24proc/192core/768thread)
     Oracle Sun TPC-C Result: Sun SPARC Enterprise T5440:
     7,646,486 tpmC at $2.36USD/tpmC, avail 2010/03/19,
     (48proc/384core/3072thread). TPC-C results available at
     www.tpc.org.
5 – Solitare Study

2.7x faster per core
On POWER7 than the best
Oracle/Sun TPC-C result[4]

Manageability

IBM DB2 Compresses Data Better than Oracle

Superior compression rates due to DB2 algorithm

- DB2 compresses data by looking at all values in the table
- Other vendors only remove duplicates at the page/block level
- Disadvantages of page level approach

Consistent repeating values throughout the entire table will be stored multiple times in each page header

There may be repeating patterns in the table but not on each page

Table	Compression Ratio	
LINEITEM	38%	58% (1.5x better)
ORDERS	18%	60% (3x better)
	Oracle	DB2

InfoWorld

"Row-level compression is a revolutionary development that will leave Oracle and Microsoft green with envy".

IBM DB2 - Lightning Fast & Optimized for SAP

SAP

Better Performance with DB2

- Average 40% better performance
- World record SAP benchmark, outperforming Oracle by 18% and needing only half (only 50%) the processing power!

Lower TCO with DB2

- Average 40% Storage Savings
- Average 25% DBA Labor Savings

Deep sales and development partnership leading to great results

- 33% Growth in SAP clients choosing DB2 since 2006
- >100 Customers upgraded from Oracle to DB2 in past 12 months

"We expected an improvement of around 20% in terms of system response time, but we found that the new system was actually 40% faster. The new DB2 database is even more efficient than we anticipated." – Peter Boegler, SAP
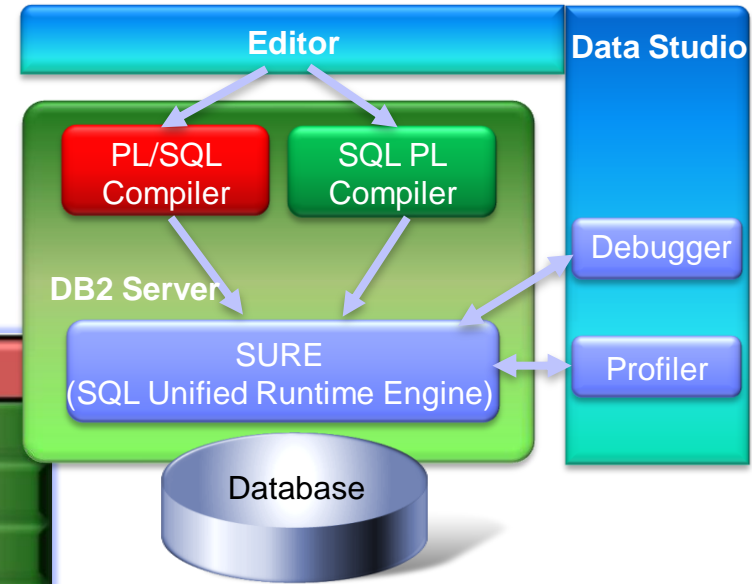
Compatibility

IBM DB2 runs Oracle Code Seamlessly

- Built in PL/SQL compiler
- Source level debugging and profiling

Oracle Database	→	DB2	
Concurrency Control	→	Native support	
SQL	→	Native support	
PL/SQL	→	Native support	
Packages	→	Native support	
Built-in packages	→	Native support	Not Emulation
OCI	→	Native support	
JDBC	→	Native support	
Online schema changes	→	Native support	
SQL*Plus Scripts	→	Native support	

Editor

Data Studio

PL/SQL Compiler

SQL PL Compiler

Debugger

DB2 Server

SURE (SQL Unified Runtime Engine)

Profiler

Database

THIS IS WHY WE CALL IT UNDERLINE ENABLEMENT AND NOT PORT !

Gartner Report July 2011

Gartner.

Research
G00214082

22 July 2011

IBM DB2's Maturing Oracle Compatibility Presents Opportunities, With Some Limitations

Donald Feinberg, Merv Adrian

Oracle customers who wish to assess compatible alternatives will find that IBM's DB2 compatibility has continued to mature and add features. Understanding its strengths and weaknesses is key to making a migration decision.

Scalability & High Availability

Introducing DB2 pureScale

Virtually unlimited capacity

- Buy only what you need,
  add capacity as your needs grow

Application transparency

- Avoid the risk and cost of
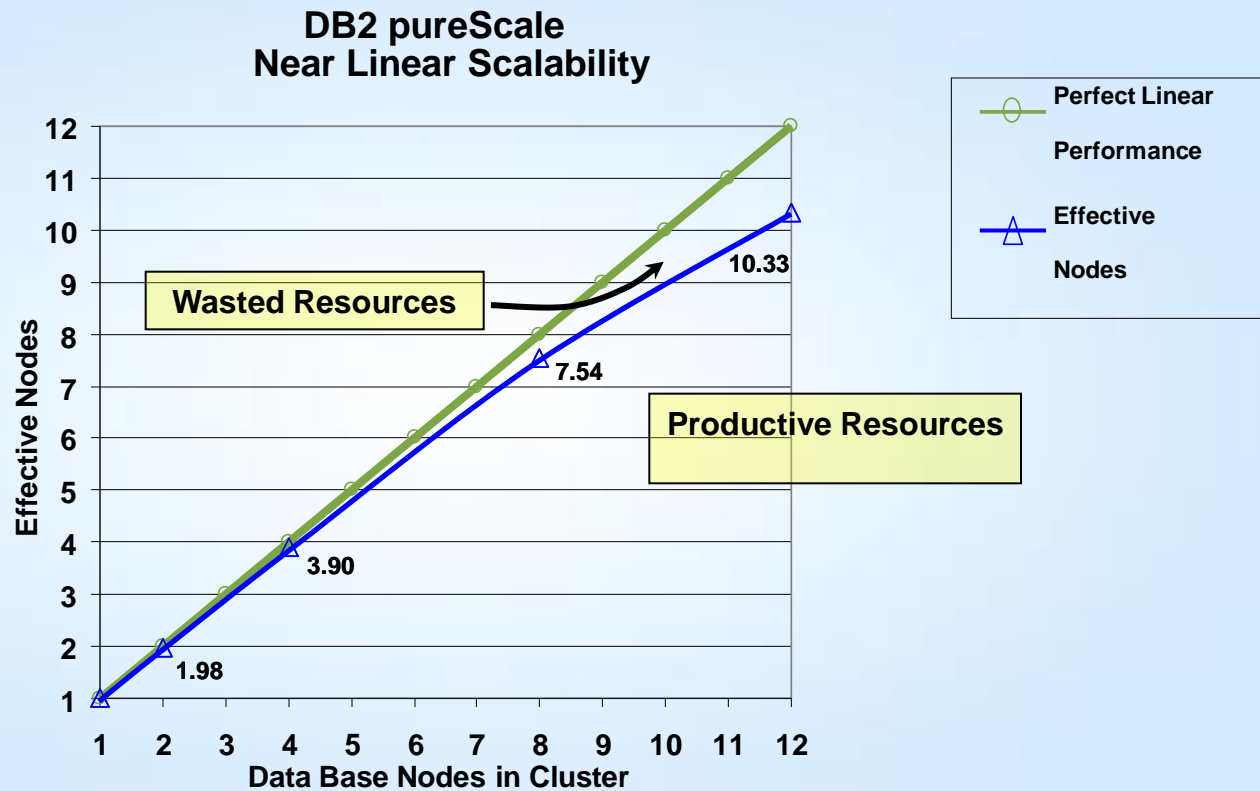 application changes

Continuous availability

- Deliver uninterrupted access to your
  data with consistent performance

Learning from the undisputed Gold Standard... System z
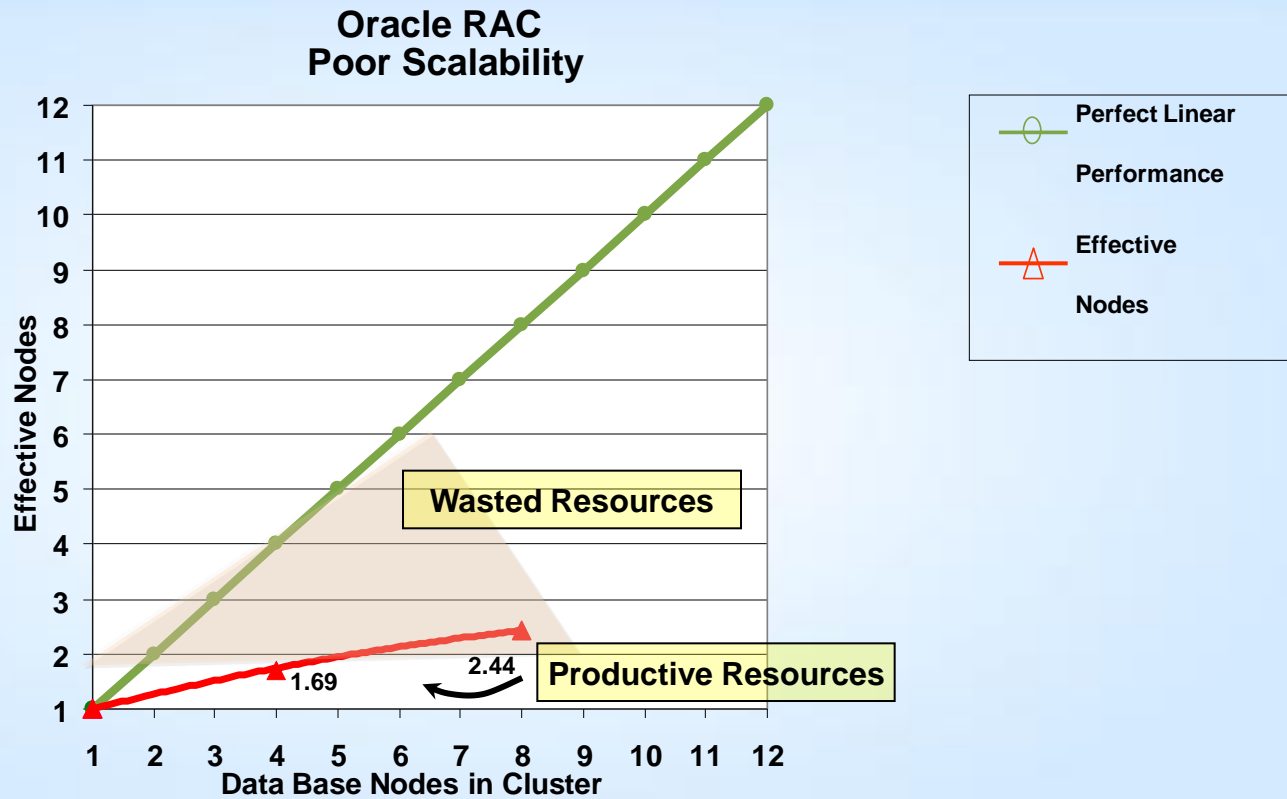
Why DB2 pureScale is better than Oracle RAC

Near-linear scale-out efficiency of DB2 pureScale

**DB2 pureScale
Near Linear Scalability**

Perfect Linear
Performance

Effective
Nodes

Wasted Resources

Productive Resources

10.33

7.54

3.90

1.98

Effective Nodes

Data Base Nodes in Cluster

Source: DB2 pureScale characteristics as shown in IBM published results from internal tests

Why DB2 pureScale is better than Oracle RAC

Throughput efficiency declines as you add nodes to Oracle RAC

Oracle RAC
Poor Scalability

Wasted Resources

Productive Resources

2.44

1.69

Effective Nodes

Data Base Nodes in Cluster

Perfect Linear Performance

Effective Nodes

Source: Oracle RAC characteristics as published in Dell test results.
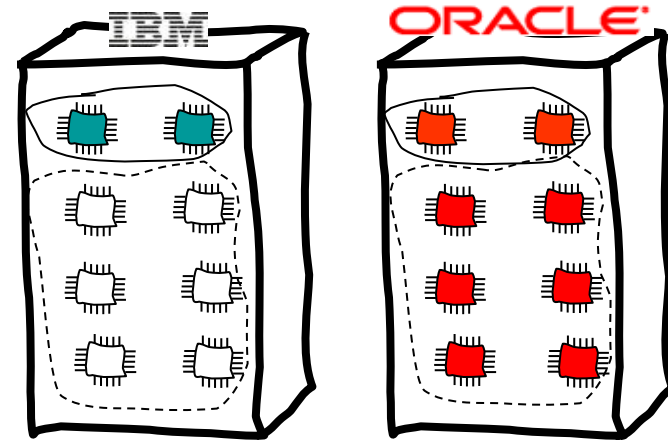
Licensing

DB2 Licensing

- **DB2 is Virtualization Friendly**
  - Flexible licensing allows virtualization for all DB2 editions
  - Supports VMWare
  - License ONLY the virtualized CPU
  - Reduce hardware expenses through consolidation and higher utilization
  - Reduce staffing costs with easy deployments

- **ANY discounted licensing for development, quality assurance (QA) and user acceptance (UA) licensing?**
  - DB2 offers a special Database Enterprise Developer's Edition (DEDE) license
  - You do not Pay Production Licenses
  - Pay 1 User not 25 Users!

Does your existing vendor supports Software Virtualization? Software Partitioning Policy

Do you need to pay 25 Named user per Processor for Development Licensing?

DB2 Licensing

- **DB2 is Standby Friendly**
  - **You need to only licenses 100PVU per server for Warm Server**
  - **NOT Full Licensing**

"Standby – In this type of recovery, a copy of the primary database is maintained on a separate server at all times. These systems are configured for disaster recovery purposes. If the primary database fails, the standby database is activated to act as the new primary database.
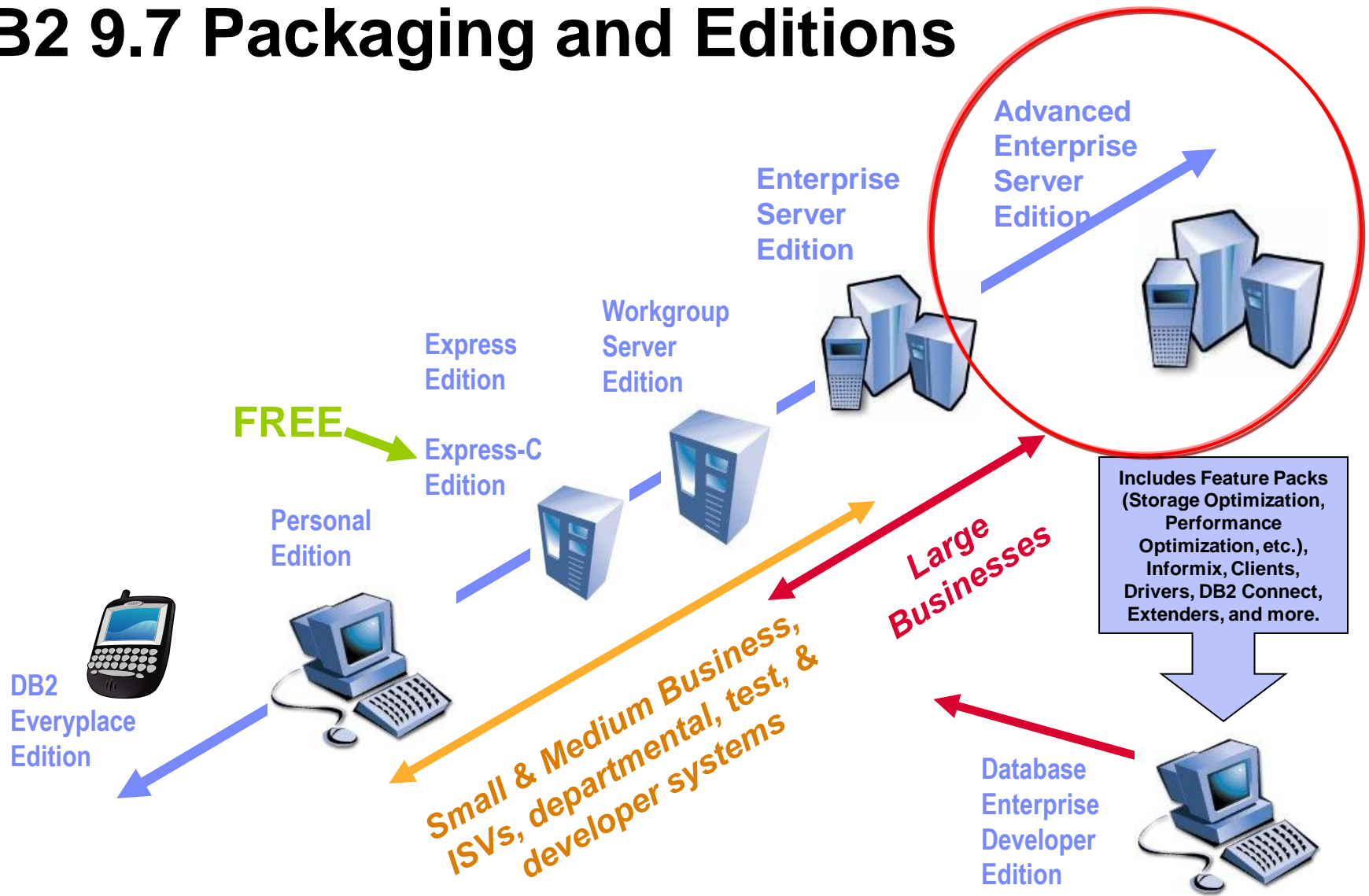*In this environment, both the primary and the standby databases must be fully licensed."*

DB2 9.7 Licensing for HA Standby Server

Edition	Cold	Warm	Hot
Express-C	Not available	Not available	Not available
Express (FTL, Server)	Additional server license for the standby server	Additional server license for the standby server	Additional server license for the standby server
Express (PVU, Per User)	No charge for standby server	The standby server must be licensed for 100 PVUs if using PVU pricing. For Per User pricing, the standby server must be licensed for 5 authorized users	Standby server must be licensed in same manner as primary server
Workgroup	No charge for standby server	The standby server must be licensed for 100 PVUs if using PVU pricing. For per socket pricing, the standby server must be licensed for 1 socket. For Per User pricing, the standby server must be licensed for 5 authorized users	Standby server must be licensed in same manner as primary server
Enterprise	No charge for standby server	The standby server must be licensed for 100 PVUs if using PVU pricing. For Per User pricing, the standby server must be licensed for 25 authorized users	Standby server must be licensed in same manner as primary server, including any Feature Packs

DB2 9.7 Packaging and Editions

Advanced Enterprise Server Edition

Enterprise Server Edition

Workgroup Server Edition

Express Edition

FREE

Express-C Edition

Personal Edition

DB2 Everyplace Edition

Includes Feature Packs (Storage Optimization, Performance Optimization, etc.), Informix, Clients, Drivers, DB2 Connect, Extenders, and more.

Large Businesses

Small & Medium Business, ISVs, departmental, test, & developer systems

Database Enterprise Developer Edition

DB2 Advanced Enterprise Edition compared to Oracle

For Customers

- All-in-one, significant value, one low price
- DB2 Advanced Edition (AESE) is only 10% more than ESE *(more value for customers!)*
- Compare DB2 Advanced Edition to **Oracle 60% Cheaper**

Functionality	DB2	Price	Oracle	Price
Core Server	DB2 Enterprise	$40,500	Oracle Enterprise	$57,950
Compression	Storage Optimization feature	$15,300	Advanced Compression	$14,030
Workload Management	Performance Optimization Feature	$15,300	Workload management	Free
Disaster Recovery	HADR	Free on primary	Active Data Guard	$14,030
Advanced Security	Label Based Access Control	$11,100	Label Security	$14,030
Data Partitioning	Range Partitioning	Free	Partitioning	$14,030
Administration	Optim Database Administrator	$5,775	Oracle Enterprise Mgr	Free
			Change Mgmt Pack	$4,270
Development	Optim Development Studio (10 users)	$8,660	Internet Dev Suite	$7,076
Performance Tuning	Optim Performance Manager (existing price Included in Perf Opt Feature)		Diagnostics Pack	$6,100
Federation	Heterogeneous Federation Feature	$7,353	Oracle to Oracle federation	Free
Active/Active Replication	Q-Replication with DB2	$11,100	Golden Gate	$21,350
Total		**$115,088**		**$152,866**
Advanced Enterprise		**$60,320**		**$152,866**

LIST PRICE

Prices are based on Oracle Global List Price publicly available, IBM price based on

Education and Knowledge Sharing

Course Description

DB2 Training

IBM

FREE for Your team of DBAs!
Minimum 15 PAX to start a class or attend public class

IBM DB2 Workshop for Oracle Professionals

Designed especially for Oracle practitioners, this session covers the Oracle Compatibility features in DB2 9.7 and includes a demo on the conversion process. It also compares Oracle and DB2 technologies to help you understand the similarities and differences

© 2012 IBM Corporation

HOW TO START?

1. **Start with One Application**

    - We will conduct a Business Value Assessment to demonstrate financial savings

    - Choose a New Application or Select an Upgrade project for POC

    - Migration Application Assessment

    - Conduct POC to migrate application from Oracle to DB2

    - POC Assessments

    - Procure new licenses for New Application or Upgrade Project or enter into an AYCE for New projects

In most cases, the COST SAVINGS already JUSTIFY the Project Costs

Thank You

Skills?

Mitigate the risk of moving from Oracle to DB2/Informix
Convert with experience and trust

What kind of support can IM Technology Ecosystem provide?

Skills Transfer (Bootcamps): Teach you deep product implementation skills required for real project execution

> *Skilled & certified*
> *Strong driver for a successful project*

Project Specific Enablement: Provide implementation assistance to clients and ISVs to accelerate time-to-value and mitigate risk

> *Provide consultative support to you in real life project*

Mentoring: Create more value by helping clients navigate the wealth of IM portfolio and apply technology in solutions

> *Build deep relationship with you for repeatable success*

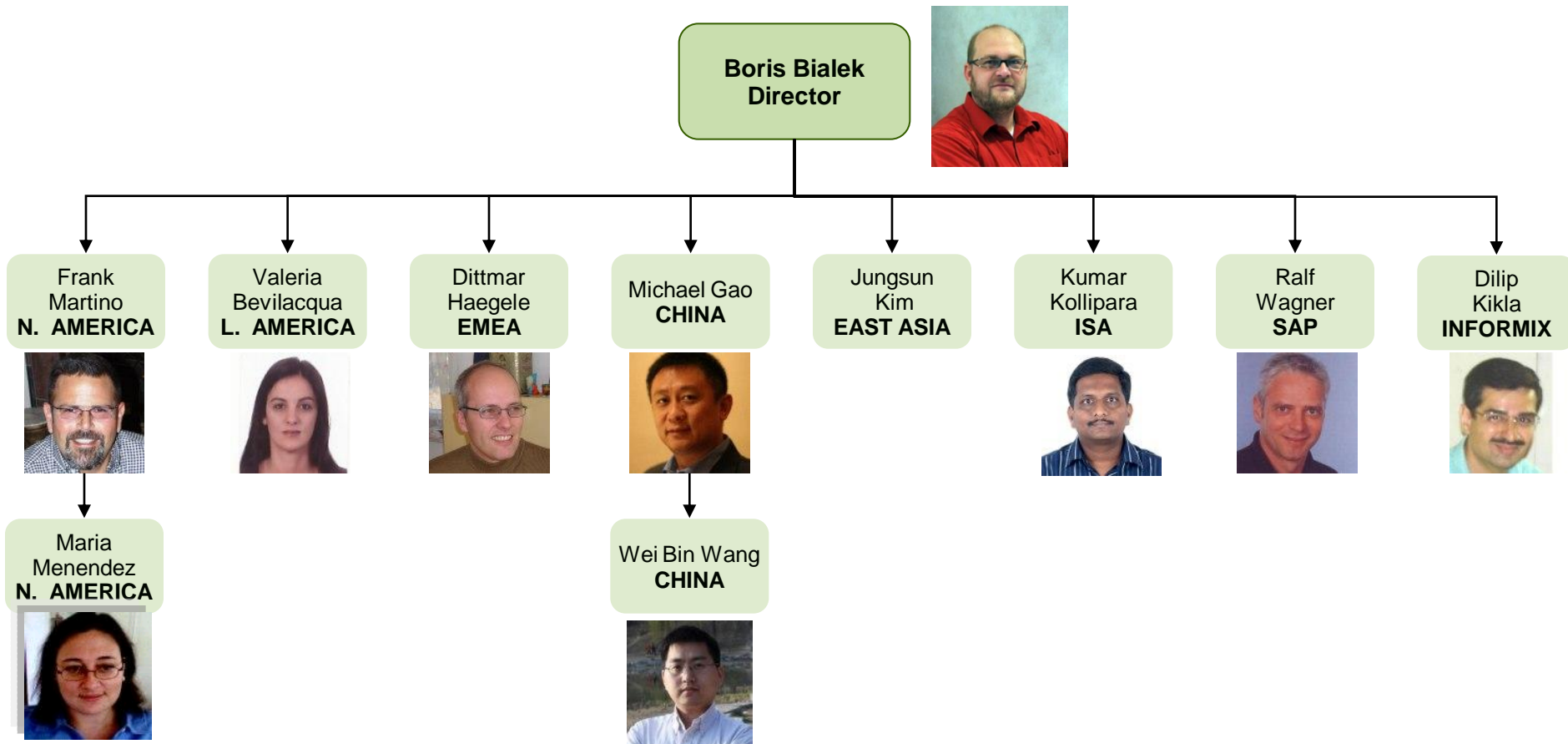## Information Management Technology Ecosystem Worldwide

IM Product Areas:
- **DB2 for LUW**
- **DB2 for z/OS**
- **DB2 pureScale**
- **SAP and DB2**
  - **Informix**
- **InfoSphere Warehouse**
- **InfoSphere Information Server**
- **Infosphere DataStage**
  - **InfoSphere QualityStage**
- **InfoSphere Change Data Capture**
- **InfoSphere MDM Server/MDM for PIM**
- **Optim Governance**
- **Guardium**

350+ Experts

IMTE has the breadth and depth of experience

- **Successful track record in many projects**
  - **Proven implementation methodology**
    - **World class capabilities**

Worldwide IMTE Team

We know that *TRUE* requires the absolute best team that we can assemble and IBM is prepared to meet your needs by leveraging our local and global resources

Boris Bialek
Director

Frank Martino
N. AMERICA

Valeria Bevilacqua
L. AMERICA

Dittmar Haegele
EMEA

Michael Gao
CHINA

Jungsun Kim
EAST ASIA

Kumar Kollipara
ISA

Ralf Wagner
SAP

Dilip Kikla
INFORMIX

Maria Menendez
N. AMERICA

Wei Bin Wang
CHINA

38

Standard Conversion Practice

Conversion assessment phase

- Conversion assessment questionnaire
- Application conversion session
- Conversion assessment document

Database object conversion phase

- Conversion of database structures and objects
- Move of data from old to new system
- Enabling compression
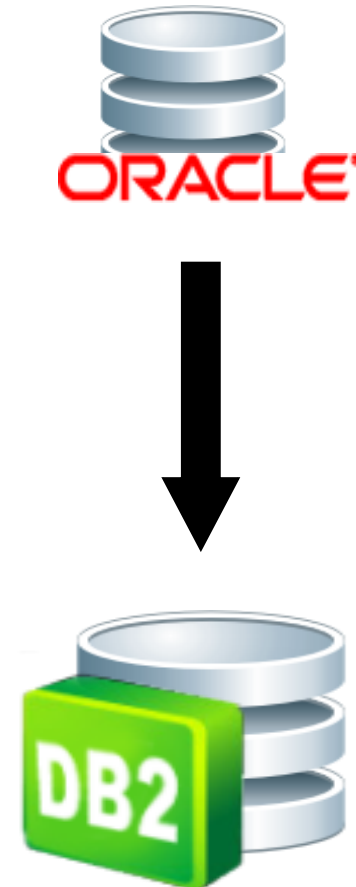- Configuration of autonomic functions

Application conversion phase

- Code adjustments to existing application per conversion assessment
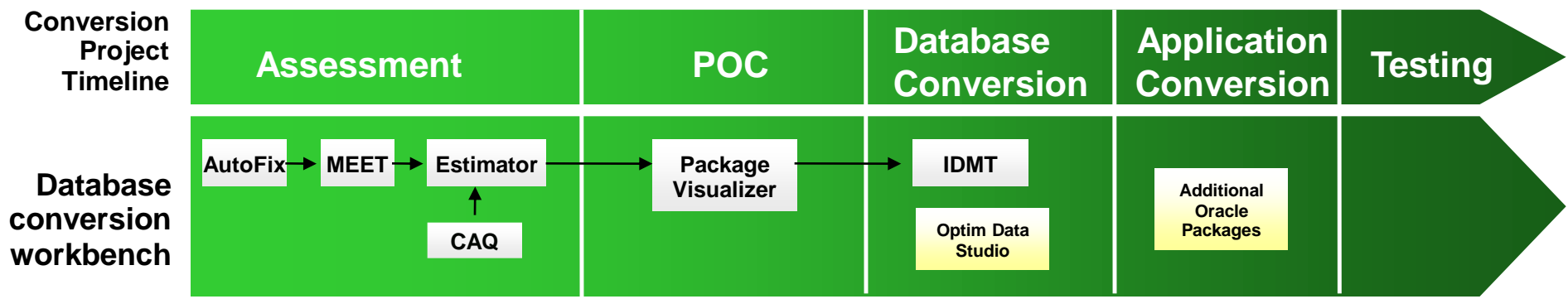- Function and system test

Solution deployment phase

- Additional database optimization
- Index review
- Overall solution health-check

Skills Transfer and DB2 ramp up (independent of above)

Tools Available At Each Step of the Migration

Conversion Project Timeline	Assessment	POC	Database Conversion	Application Conversion	Testing

Database conversion workbench

AutoFix → MEET → Estimator → Package Visualizer → IDMT

CAQ

Optim Data Studio

Additional Oracle Packages

- **AutoFix** Parse application code and replace unknown SQL API syntax by proper DB2 SQL API syntax. We use standard pattern based replacement of known repetitive code snippets

- **MEET** Analyzes SQL code for its compatibility with DB2 residing inside the database or within other programming languages

- **Conversion Assessment Questionnaire (CAQ)** Creation of electronic form which will prepare the collected information by clients for the estimation process

- **Estimator** calculates the conversion efforts based on MEET and CAQ findings

- **Package Visualizer** depicts dependencies between PL/SQL objects to identify the right scope for a POC

- **IDMT** Automatically deploys database structure and data from other vendor's databases to DB2

Sample of a midsize migration report

MEET DB2 9.7 FP2 Report 2010/09/22 (IBM Confidential)

Migration Enablement Evaluation Tool for DB2
Send comments to meetdb2@torolab.ibm.com

PL/SQL Coverage

MEET DB2 has estimated that 99.4 % of PL/SQL statements and 92.2 % of PL/SQL objects are immediately transferable to IBM DB2. The technical report below identifies possible incompatibilities in the source provided to the PL/SQL compatibility features provided by DB2 9.7.

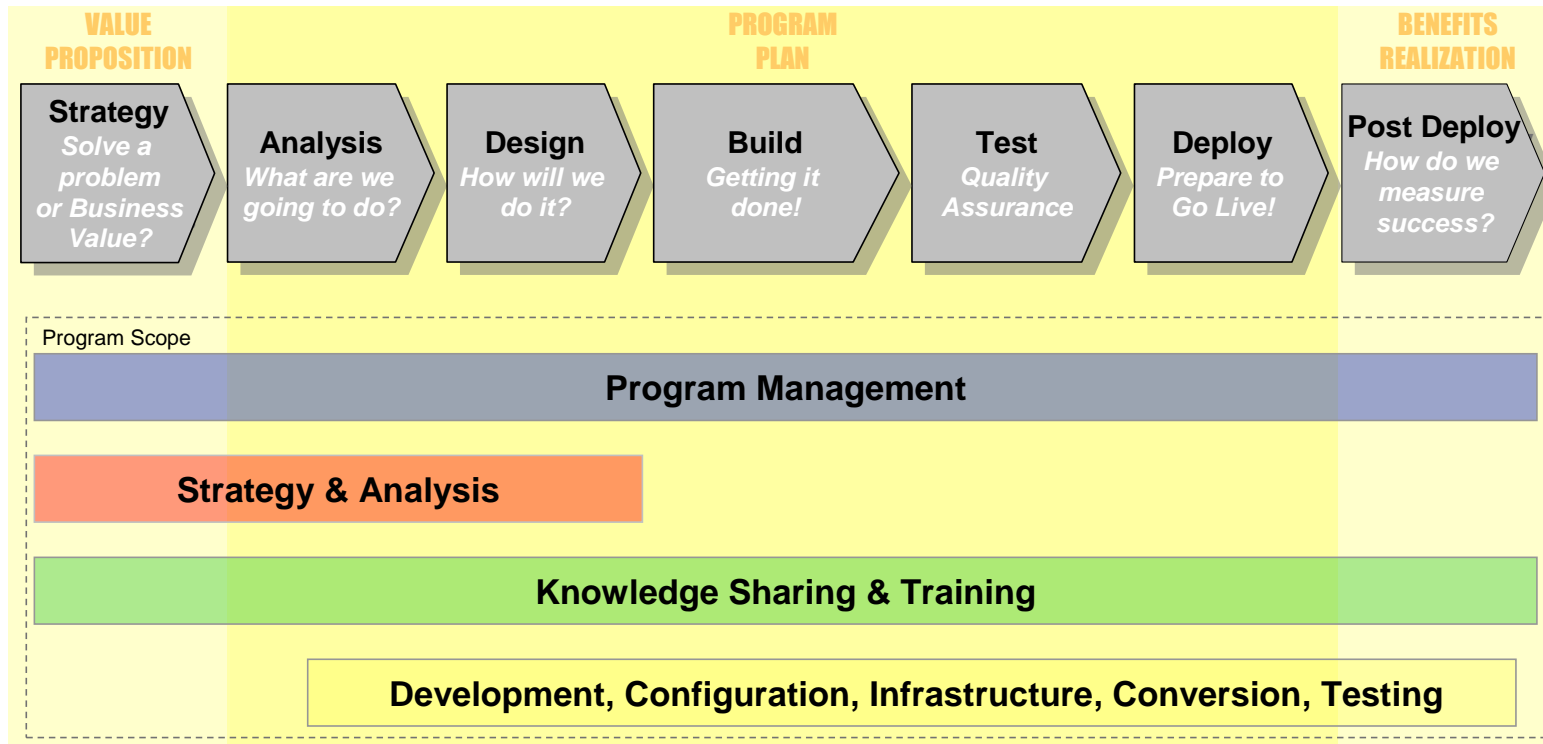**99.4% of statements** immediately transferable to IBM DB2

Benefits

- **Rapid assessment** of application
- **Early confirmation** of compatibility
- **Lists details** and source code line number for exceptions

Object Type	Total Number	Number That Require Attention	Percent That Require Attention
Anonymous blocks	3	0	0 %
Procedures	4000	164	4 %
Functions	501	32	6 %
Packages	10	4	40 %
Triggers	319	176	55 %
Total Objects	4833	376	7.8 %
Statements	187451	1117	0.6 %

Feature	Description	#
NLS LIBRARY	Natural Language Library is not supported.	1
NUMBER PRECISION	The precision of the data type is out of range.	368
Line 247393 [package] "ADAM"."SP_DECLARA_CONCEPTO"	i_pconcepto NUMBER(38),	
Line 247394 [package] "ADAM"."SP_DECLARA_CONCEPTO"	i_cond_turno NUMBER(38),	

Complete Project Methodology

Project management

Configuration management and merge processes

Re-coding of non-compliant segments from Oracle to DB2

Performance analysis and optimization

Solution deployment and world wide roll out

VALUE PROPOSITION	PROGRAM PLAN	BENEFITS REALIZATION

Strategy
Solve a problem or Business Value?

Analysis
What are we going to do?

Design
How will we do it?

Build
Getting it done!

Test
Quality Assurance

Deploy
Prepare to Go Live!

Post Deploy
How do we measure success?

Program Scope

Program Management

Strategy & Analysis

Knowledge Sharing & Training

Development, Configuration, Infrastructure, Conversion, Testing

Application Assessment

Description:

The Conversion Assessment provides an analysis of your database and application architecture. IBM will work with TRUE to outline the scope of the assessment. Our Conversion Assessment Questionnaire allows us to gather information for evaluating the technical feasibility of a conversion to DB2 for Linux, UNIX, and Windows.

Includes: In-depth examination of your source code and database

Benefits:

This *"No Charge"* offer provides an assessment of your application and database

- ✓ Make informed decisions
- ✓ Identify potential issues early
- ✓ Understand your business risk
- ✓ Provides you with a comprehensive inventory of your current applications
- ✓ Identify candidate pilot project(s)
- ✓ Accurately scope and plan your conversion

Deliverables:

- Conversion Assessment
- High-Level Project Plan

Proof of Concept / Pilot

Description:

The Proof of Concept (POC) focuses on migrating 1-2 candidate applications. It will allow IBM and TRUE to prove that a full conversion can be completed successfully.

Includes: A DB2 technical viability exercise using your database and application(s) within your environment
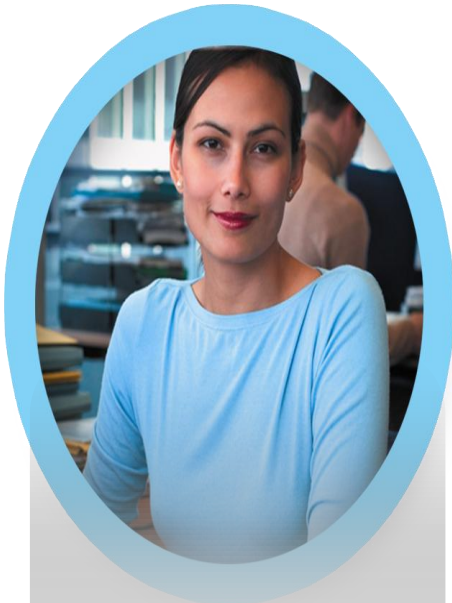
Benefits:

- ✓ Provides confidence moving forward with a full conversion
- ✓ Demonstrates Oracle compatibility features in DB2 9.7
- ✓ Confirms the conversion strategy
- ✓ Reduces risk by addressing issues in a controlled environment
- ✓ Allows the project team to validate assumptions and assessment

Deliverables:

- Conversion and Compatibility Report
- Functional database(s) on DB2
- Functional application(s)
- Proof of Concept Final Report
- Lessons learnt session

Easier Decision Now!

How do I start Saving?

IT Executive/DBA

More Databases =
More Administration =
More Work = More
Headache!

Applications candidates to move from Oracle

New applications (or refreshes)

+ no migration
+ no impact to the business
+ immediate savings on licensing
+ savings on maintenance on following years.

Move from Oracle to DB2 for packaged applications (SAP, ….)

+ Limited migration effort (days)
+ No application rewrites
+ Limited tests
+ Savings on maintenance on following years.

ALTERNATE

Move from Oracle for in-house-developed applications

+ Use the IBM database migration technology
+ Savings on maintenance on following years.
  Assessment
  Extended tests

1   2   3