



# **Websphere - Smarter Software For A Smarter Planet**

Introduction

# Welcome And Introductions

*Thanks for coming today !!*



*Your IBM technical team welcomes you.*

*Introductions.....*

*Copies of this presentation are available:*

<http://www-01.ibm.com/software/hu/events/CPOevent20100614/index.html>

# We Are Living In A New Landscape

**Instrumented**

**Interconnected**

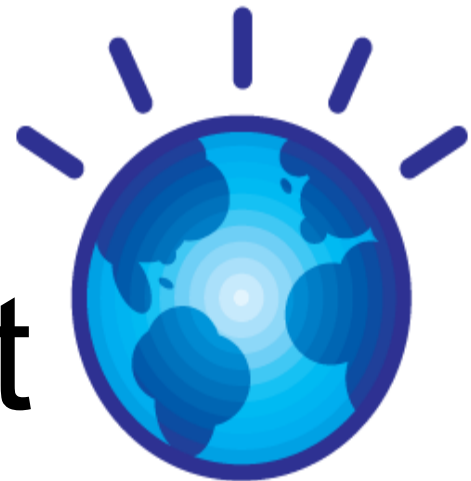
**Intelligent**

There are one billion transistors per human, each costing one ten-millionth of a cent

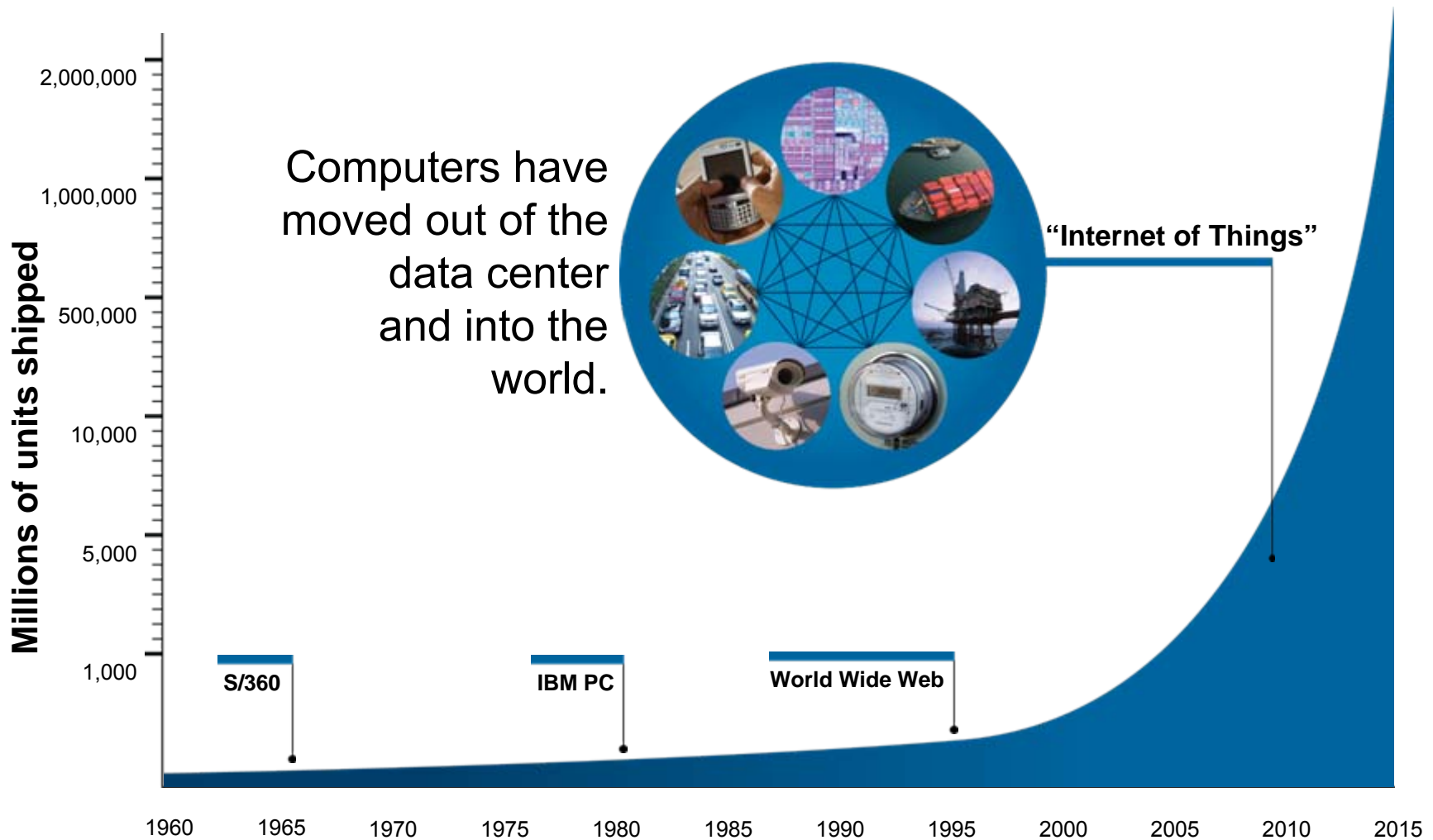
The information created by a trillion networked things grows exponentially

Algorithms and systems turn mountains of data into actions that make the world Smarter

# Smarter Planet

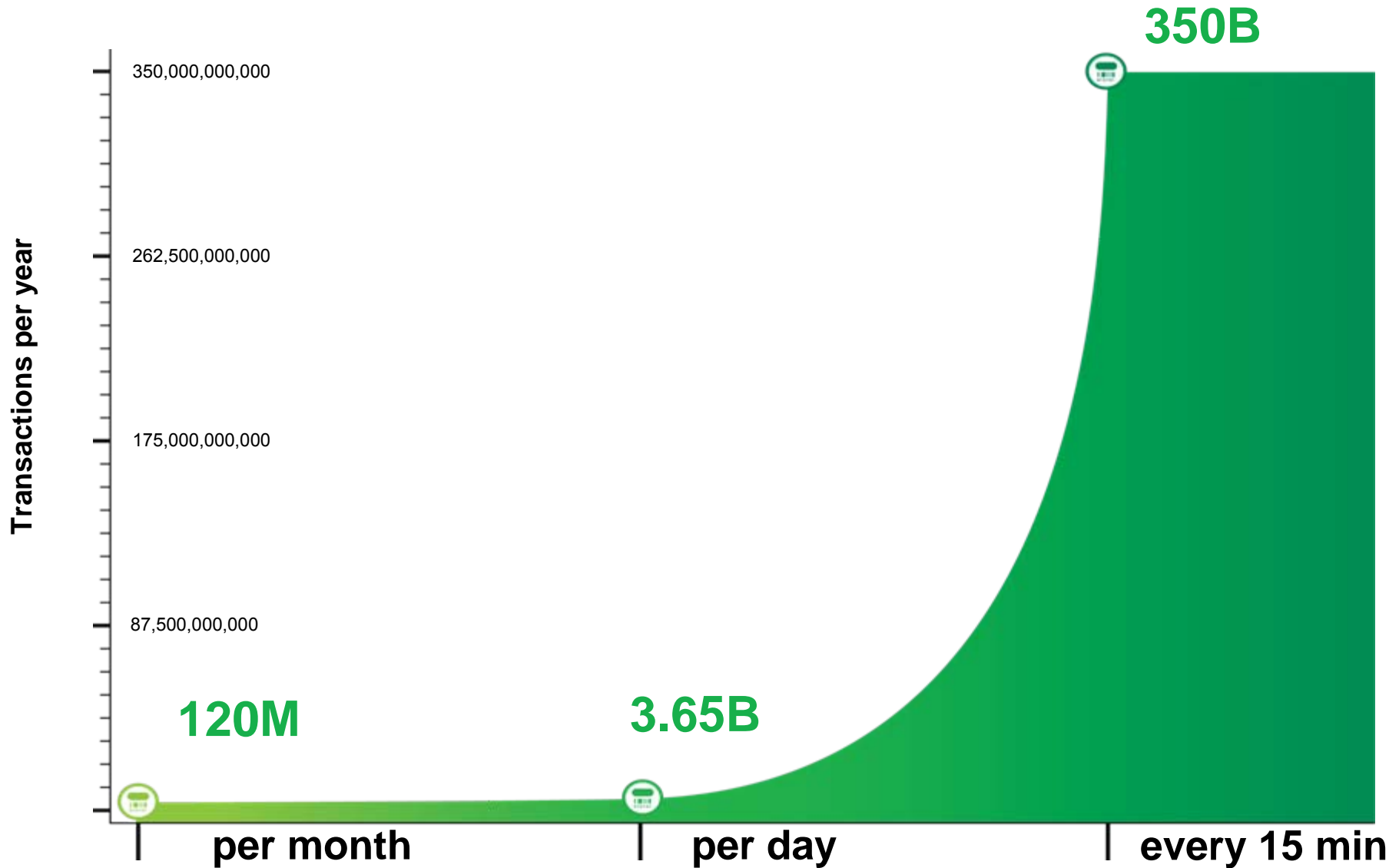


# Welcome To The Decade Of Smart

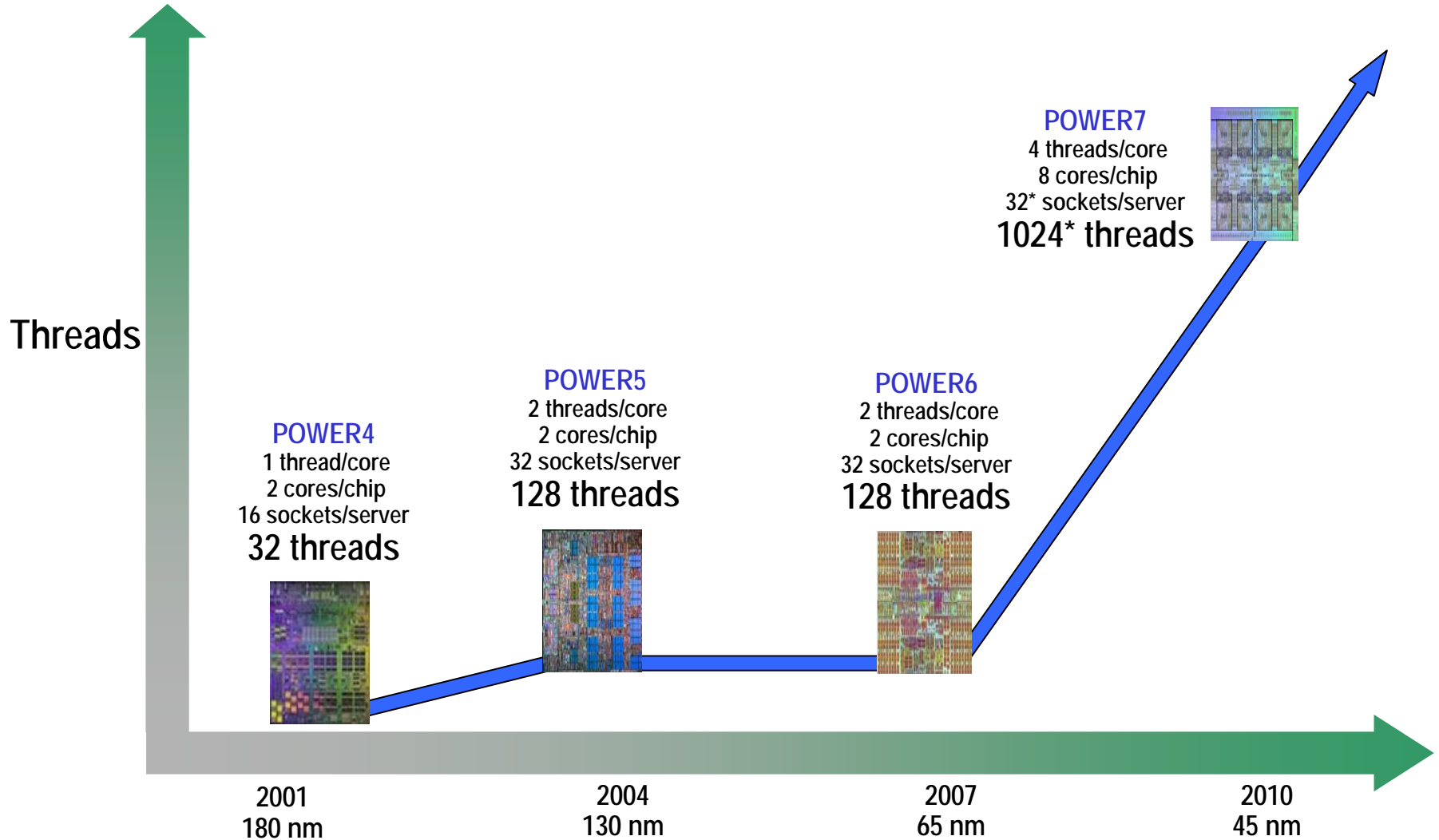


Source: IDC, SSR and IBM Market Insights

# Smarter Planet Workloads Are Here!



# In 2010 IBM's Power Systems Bring Massive Parallelism Mainstream



\*Statement of Direction, currently max 256 threads and 64 cores.

# Workload Optimized Systems Can Best Meet The Demands For Smarter Planet Solutions

## ■ Hardware optimized for software workloads

- ▶ Larger cache per core for data-intensive workloads
- ▶ Maximum cores for processor-intensive workloads

## ■ Software optimized to exploit hardware capabilities

- ▶ Transparently leverage massive parallelism
  - Multi thread exploitation
  - Near linear clustering
  - Virtualization and consolidation

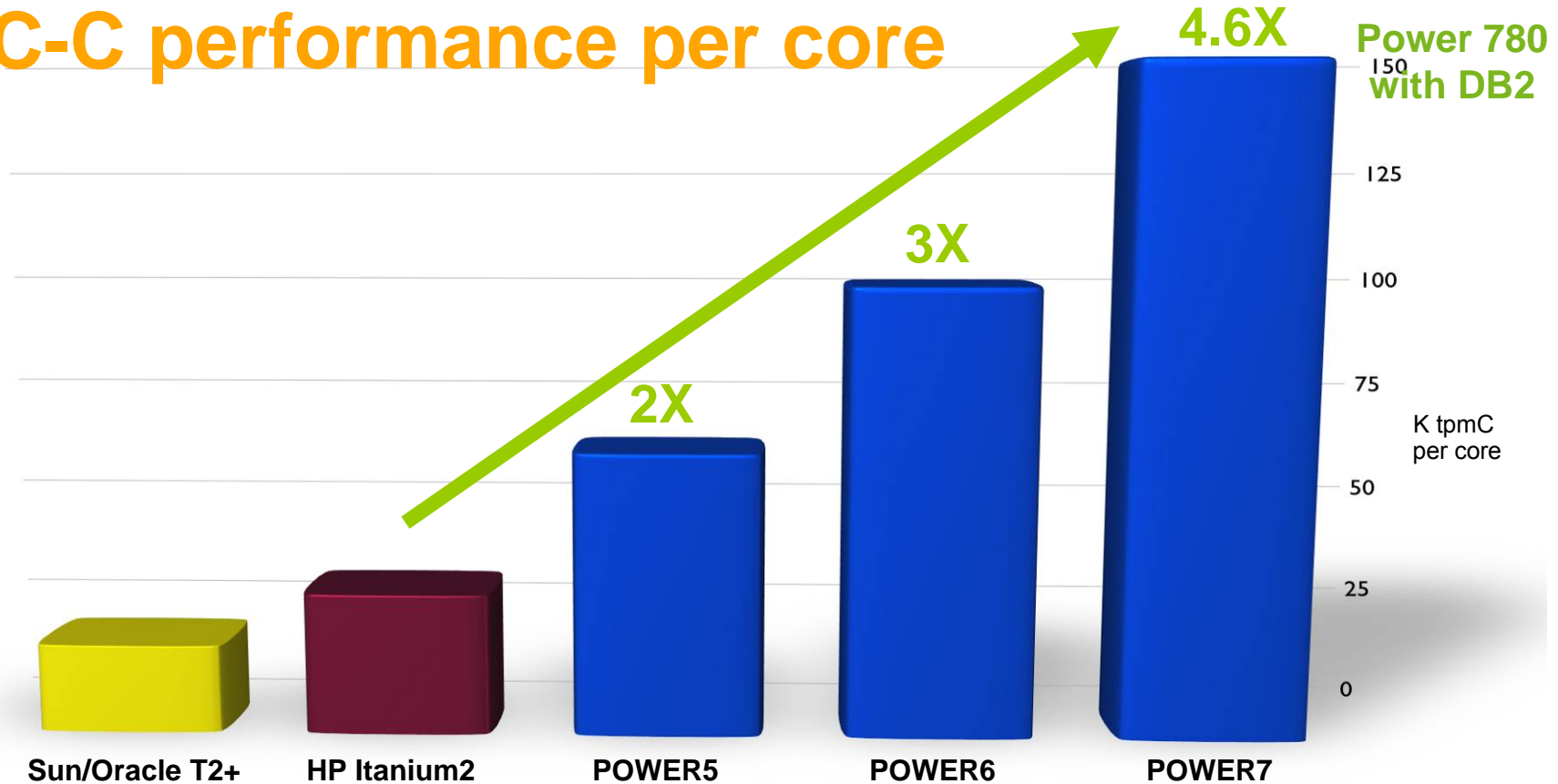
## ■ Integrated solution packages

- ▶ Hardware and software ready to go

## ■ Benefits: Best scale and price/performance, faster time to solution

# Massive Parallel Technology Is Driving The Fastest IBM Systems In The Industry By Order Of Magnitudes

## 4.6 to 7.5 times more TPC-C performance per core



Best results listed for IBM POWER, HP, and Sun/Oracle systems over 1M tpmC.  
Source: <http://www.tpc.org>. See Power 780 benchmark details for specific results.

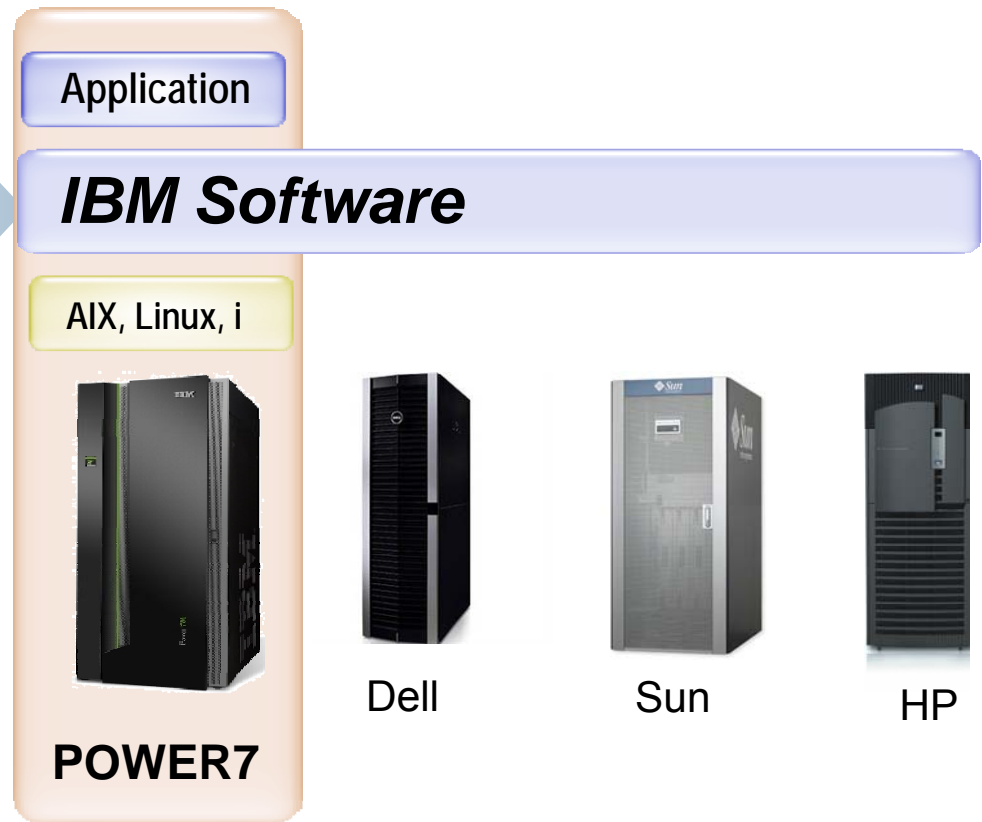


# WebSphere Runs On Many Platforms, But Is Optimized For Power Systems

IBM Software on IBM POWER7-based servers.

IBM Software automatically exploits the threads available on POWER7 to optimize performance and deliver best value

**Result:**  
Better performance,  
Lower Costs



# Key IBM Software That Has Been Optimized For POWER7 To Meet Smarter Planet Challenges

- WebSphere (WAS) – 85% Performance Improvements
- DB2 – 19x Performance Improvement
- DB2 PureScale – Near Linear Scaling to 128 Nodes
  - ▶ 64 nodes = 95% of linear
  - ▶ 128 nodes = 84% of linear
- Rational Compilers – 20% Improvements
  - ▶ Application performance
  - ▶ Need to re-compile for POWER7

***Additional Optimizations in Progress***

# Typical Platform Choices For Smarter Solutions That We Will Compare Today

**IBM Software  
on  
POWER**

**IBM Software**

**IBM  
Power Systems**

**IBM  
Service  
Management**

**Oracle Software  
on  
SPARC**

**Oracle  
Software**

**Sun / Fujitsu  
SPARC based**

**Third Party  
Service  
Management**

**Microsoft Software  
on  
x86**

**Microsoft  
Software**

**Third Party  
Intel / AMD**

**Microsoft  
Service  
Management**

**IBM Software On IBM Power Systems Is An  
Integrated, Workload Optimized System**

# Introducing Service Oriented Finance – They Need Smarter Solutions

- Service Oriented Finance (SOF) is a bank with branches located in over 50 countries

We need to change and be smarter about the way we do business in 2010 and beyond!



**Service Oriented Finance  
CEO**

Great, she just cut my budget last week, and now this! I need a **vacation**.



**Service Oriented Finance  
CIO**

# Demo: Today's LIVE Environment

## IBM Solutions

WebSphere Integration Developer  
WebSphere Process Server  
WebSphere ESB  
WebSphere Message Broker  
WebSphere Services Registry & Repository  
WebSphere Virtual Enterprise  
WebSphere Cloud Appliance  
BPM Blueprint (Lombardi Blueprint)  
WebSphere Lombardi Edition (Teamworks)

## Competitors

Oracle Application Server  
JBoss EAP V5.0  
Microsoft BizTalk  
Oracle Service Bus

*20 VMWare Images*

IBM ThinkPad  
3GB RAM



IBM ThinkPad  
3GB RAM

# Only IBM Can Deliver Smarter Solutions With WebSphere

	IBM	Oracle	Open Source	Microsoft
Strong Foundation (Application Server)	YES	YES *	NO	YES *
Dynamic Application Infrastructure (WVE and Cloud Computing)	YES	Missing Features	NO	NO
Respond Quickly to Changing Business Process Demands (BPM)	YES	Missing Features	NO	NO
Connect Everything with an Intelligent Bus (ESB)	YES	NO	NO	NO

\* = Oracle and Microsoft are missing some Key Foundation Parts