

# Powering the Enterprise with .NET Web Services

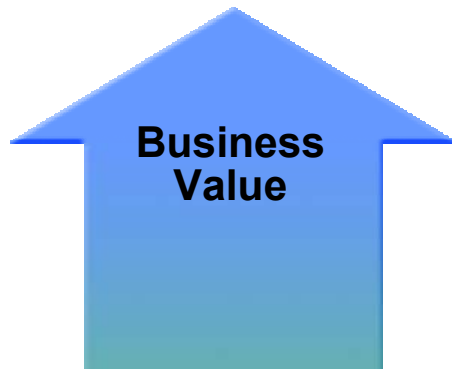


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# Agenda

- The Evolution of Web Services
- What is .NET?
- How Enterprises are using .NET today
- Case study
- How HP & Microsoft are working together
- Call to action

# IT Challenges Today



## Increase Business Value

- Connect with Customers (Revenue)
- Integrate with Partners (Profitability)
- Empower Employees (Productivity)

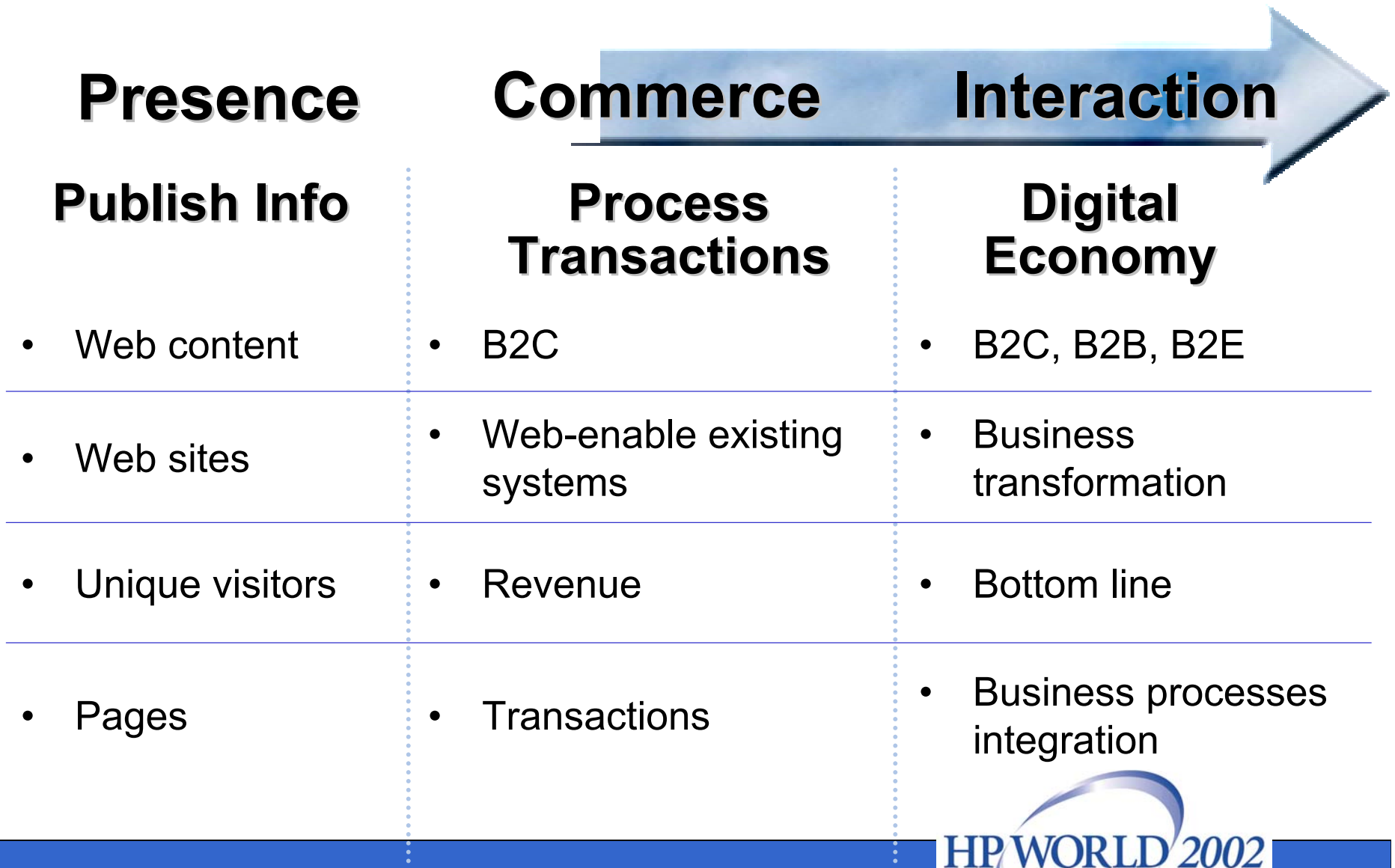
## Total Cost of Ownership

- Leverage existing assets
- Hardware is getting LESS expensive
- Downtime is MORE expensive



**Business Agility**

# Web Services Evolution



# XML Web Services Overview

- XML = the universal language of Internet data exchange
  - Universal data format → systems can actually talk
  - Basis for system interaction standards:
    - SOAP (interaction), WSDL (description), UDDI (directory)
- XML Web services allow applications to share data across platforms & operating systems
  - Works with any operating system, programming language, network
  - Spans systems, applications, sites, devices
- XML Web services are discrete units of code that handle specific tasks
  - Example: Microsoft MapPoint .NET, an XML Web service that allows you to integrate maps, directions & other location intelligence into your applications, Web sites, etc.

Microsoft  
MapPoint.net

# Building Web Services

## Microsoft - .NET

Visual Studio .NET

Web services  
(XML, SOAP, UDDI)

.NET Servers

Windows

## IBM - WebSphere

Visual Age for  
Java

Web services  
(XML, SOAP, UDDI)

WebSphere

AIX, os/390, Win

## BEA - WebLogic

WebGain  
Studio

Web services  
(XML, SOAP, UDDI)

WebLogic, Tuxedo

Unix, Solaris, Win

## Sun - Sun ONE

Forte'

Web services  
(XML, SOAP, UDDI)

iPlanet

Sun / Solaris



# What is .NET?

Microsoft .NET is software that connects information, people, systems and devices. It spans clients, servers & developer tools and consists of:

- The .NET Framework programming model used to build Web-based applications
- Developer tools such as Microsoft Visual Studio .NET
- A set of servers that integrate, run & manage XML services & apps
  - Windows 2000, Microsoft SQL Server, Microsoft BizTalk Server, etc.
- Client software that helps developers provide a positive user experience across a variety of devices

# What Is J2EE™ ?

- Java 2 Enterprise Edition
  - Sun Microsystems' server-side specification for enterprise systems architecture
- J2EE Promises
  - Openness
  - To integrate disparate computing platforms
    - Write once, run anywhere
  - A single, manageable architecture
  - Reduced risk
  - Maturity



# J2EE & .NET Will Be Used Side-By-Side

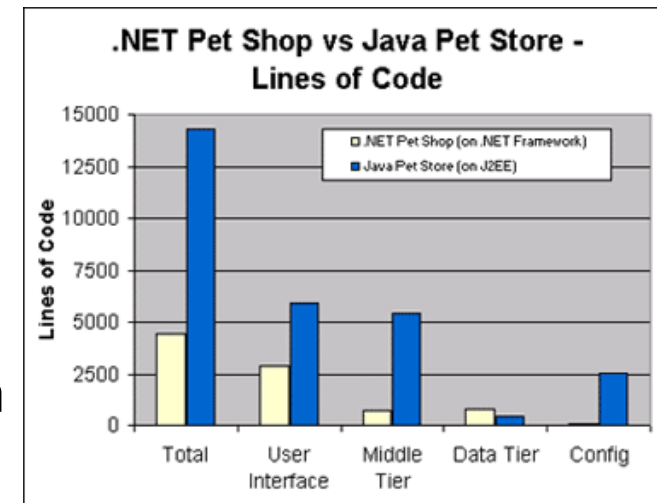
Through 2006, two architectures — J2EE and Microsoft's .NET — will remain dominant in the enterprise application server market

(0.8 probability)

Gartner Group: “The Enterprise Application Server Magic Quadrant”, 10 June 2002,  
Yefim Natis and Massimo Pezzini, Note Number: M-16-7393

# .NET Advantages

- Business Benefits
  - Accelerated time to market, higher ROI
  - .NET is less expensive ( $\approx 30\%$ )
  - Improved developer productivity, less coding required
- .NET Momentum – a growing ecosystem
  - 2 million installations of the .NET Framework
- Standards-based Integration (SOAP, XML, etc.)
  - Integrates with what you have
  - XML Web services play crucial role
- Full suite of off-the-shelf enterprise servers available today to provide business value



# Creating Business Value With .NET



- **Employee Productivity**

- Corporate Intranets
- Collaboration Portals
- Business Intelligence (BI)
- Connecting Knowledge Workers to LOB data 'anytime, anywhere, any device'



- **Connecting with Partners & Customers**

- Internet Business / Corporate Internet Presence
- Trading Partner Integration
- Enterprise Application Integration (EAI)



- **Industry-Specific / Customized solutions**

# Case Study: .NET Retail Solution



## Customer:

- General Mills - global manufacturer and marketer of consumer food products

## Situation:

- General Mills uses team of 500+ Field Retail Representatives to collect product visibility/stocking data in grocery stores
- Data is used to adjust sales & marketing strategies to:
  - address competitive threats
  - better serve customer needs
  - identify new business opportunities

## Business Problem:

- Process takes too long
  - By the time the information is available to decision makers, it is often too late to act on it
- Process is heavily paper based and inefficient.

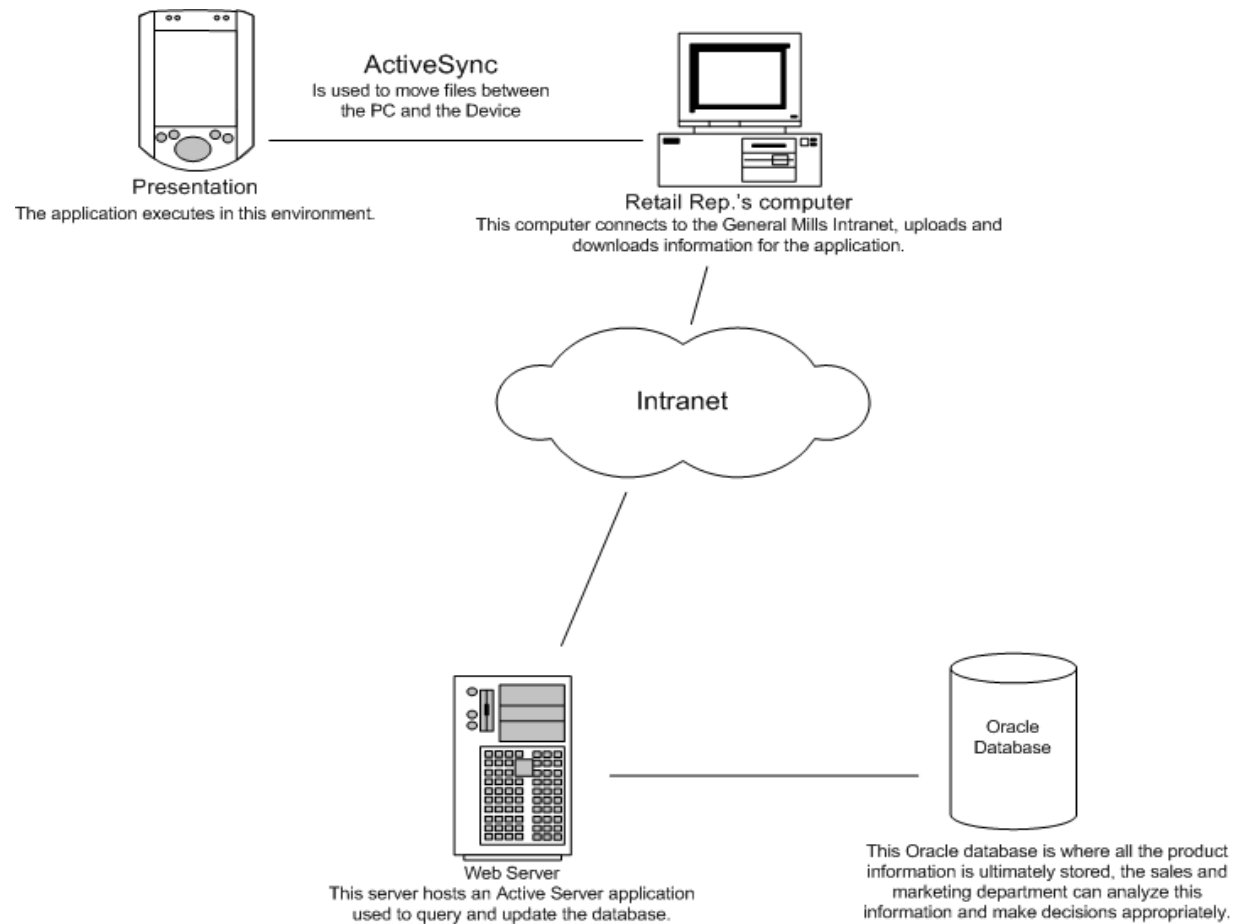
# Case Study: .NET Retail Solution – (Cont'd)

## .NET Solution:



- Developed PDA applications for Field Retail Reps to collect information easily and in such a way that data could be rapidly processed by back-end servers
- Real time information is automatically uploaded to corporate Web servers when Reps synchronize data between their PC and PDAs
- Applications also download new data from corporate Web servers to PDAs as needed

# Case Study: .NET Retail Solution – Solution Topology



# Case Study: .NET Retail Solution – (Cont'd)

## Benefits:



- More timely information to support business decisions
  - Decision makers in the sales and marketing department now receive product stocking information almost on a real-time basis
- Improved employee productivity
  - Field Retail Reps are now armed with a sophisticated tool that dramatically improves the quality and efficiency of their information gathering process
  - The new process reduces the time it takes to gather this type of information by 80%

Because of the success of this project, a new line of .NET applications are now being considered.

# How HP & Microsoft are working together on .NET

- Strategic initiative of HP & Microsoft
- Designed to enable the rapid design & deployment of .NET solutions for enterprises worldwide
- HP & Microsoft will deliver, high value cross-industry solutions as well as solutions targeted to specific vertical industries
- HP will significantly expand the .NET skills of its sales & services professionals



# HP & Microsoft .NET Initiative

## Program Scope

- Focus on re-usable, high value, solutions for specific industry and cross-industry segments
- Target vertical industry segments include:
  - Financial Services, Healthcare, e-Government, Manufacturing & Retail
- Initial focus for cross-industry horizontal solutions include:
  - Intranet and Portals
  - Business Intelligence (BI)
  - Enterprise application integration (EAI)
  - Trading partner integration
  - Corporate Web Presence
- Key program elements:
  - 3,000 dedicated HP .NET consultants
  - 100 HP .NET solution architects
  - 120 HP .NET solutions sales professionals

# Summary / Call to Action

- .NET is real. Enterprises are using .NET today to create innovative Web Services solutions that deliver new levels of business agility & competitive advantage
- HP & Microsoft are teaming closely to accelerate the design & implementation of .NET solutions for enterprises worldwide
- If you have a specific project in mind or what like to discuss how .NET technology can benefit your business, please contact your HP representative or e-mail me at [david\\_stubbs@hp.com](mailto:david_stubbs@hp.com)