

WebSphere software



Modernizing Today's Enterprise Applications

IBM Software Group

Agenda

- IBM WebSphere Market Leadership
- The IBM WebSphere Pyramid and Dynamic e-business
- Customer Pains/Requirements
- Enterprise Modernization Offering, Benefits, and Value Proposition
- Competitive Highlights
- Services
- Next Steps
- Summary
- Questions and Answers

Seminar Objectives

- By the end of today's seminar you will know the following about IBM's Enterprise Modernization (EM) Offering:
 - ▶ why you should modernize
 - ▶ what the EM offering consists of, benefits, and value proposition
 - ▶ how EM can deliver e-business systems by leveraging your existing IT assets
 - ▶ how EM can improve processes by leveraging e-business technology
 - ▶ how you can become more competitive by reducing costs leveraging your existing application assets using Enterprise Modernization
 - ▶ and how we can perform an assessment of your business to determine how this offering would work for you

WebSphere Market Leadership

- **35,000+** global customers
- **9,000** partners (500% YTY)
- **1,300** certified solution providers
- **4,700** trained global integrators
- **Eleven** consecutive quarters of double-digit growth
- **Grew** market share 10 times faster than BEA over past year
- **WebSphere** is the clear favorite over BEA among companies planning to build out their infrastructure

**Most Rapidly growing
e-business platform**

CICS/390: Today!

30 years
invested in
Applications

>30 billion transactions/day,
>\$1 trillion processed/day

>14K
customers
worldwide

5000 packages
from 2000 ISVs



950,000 programmers earn
their living from CICS

30 million users

Used by 490+ of IBM's
top 500 customers



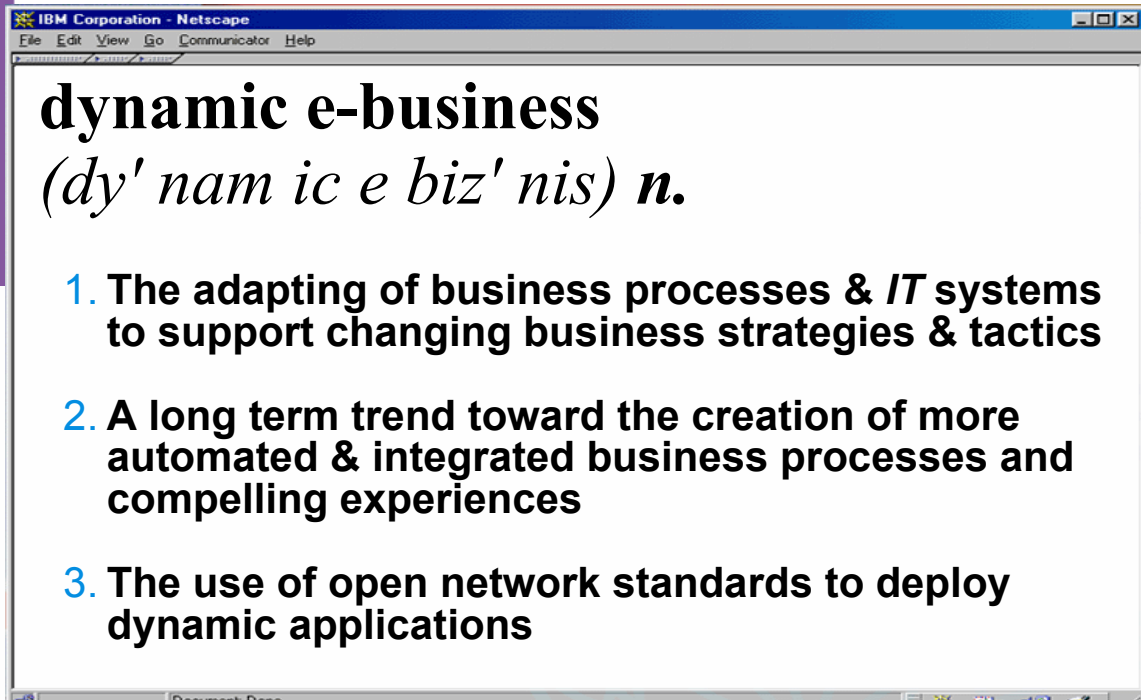
\$1 Trillion
applications
....IDC

>20K
CICS
licenses

Over 900K concurrent users/system

80%+ penetration on S/390

The road to dynamic e-business



IBM Corporation - Netscape
File Edit View Go Communicator Help

dynamic e-business
(dy' nam ic e biz' nis) n.

1. The adapting of business processes & *IT* systems to support changing business strategies & tactics
2. A long term trend toward the creation of more automated & integrated business processes and compelling experiences
3. The use of open network standards to deploy dynamic applications

Document Done

Web Publishing & Extending Existing Apps

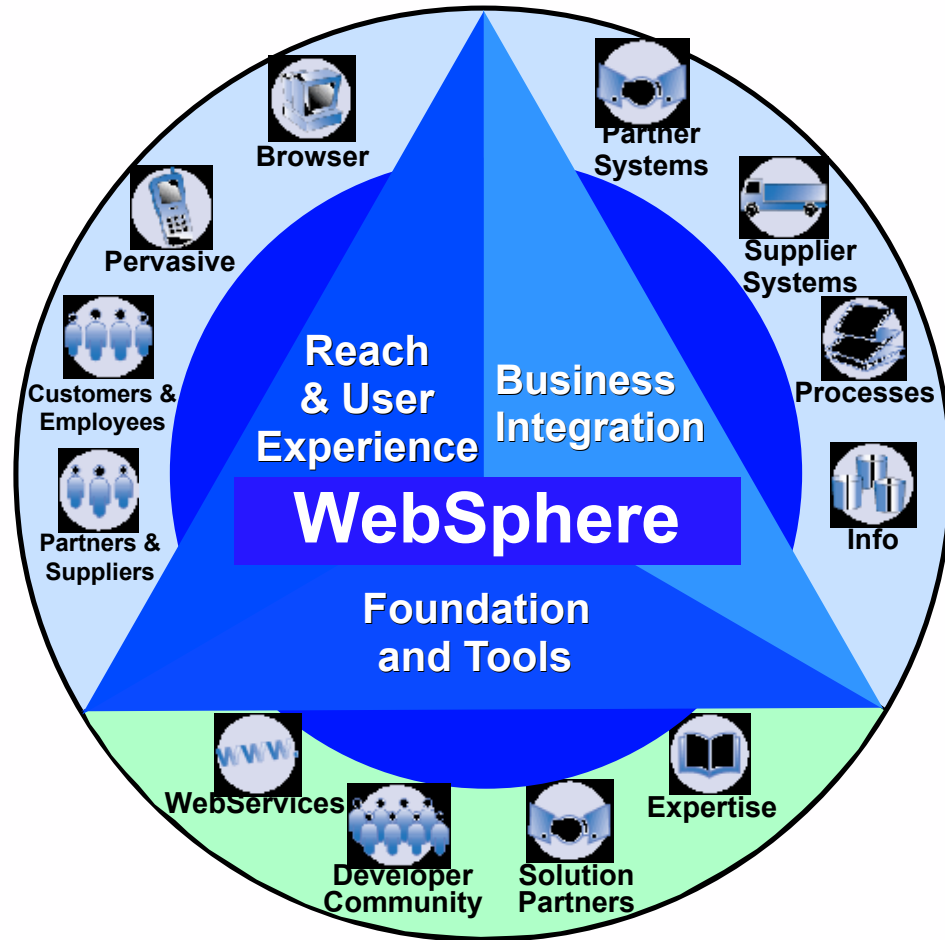
e-business Transactions

Internal Integration

External Integration

Digital Businesses

The WebSphere Pyramid?



The one comprehensive software platform
for end-to-end Dynamic e-business

Dynamic e-business infrastructure delivers solid Return on Investment

Achieve Customer Loyalty

By Extending & Personalizing User Experiences



Browser



Pervasive



Customers & Employees



Partners & Suppliers

Achieve Business Agility

By Integrating & Automating Business Processes



Partners Systems



Suppliers Systems



Processes



Information

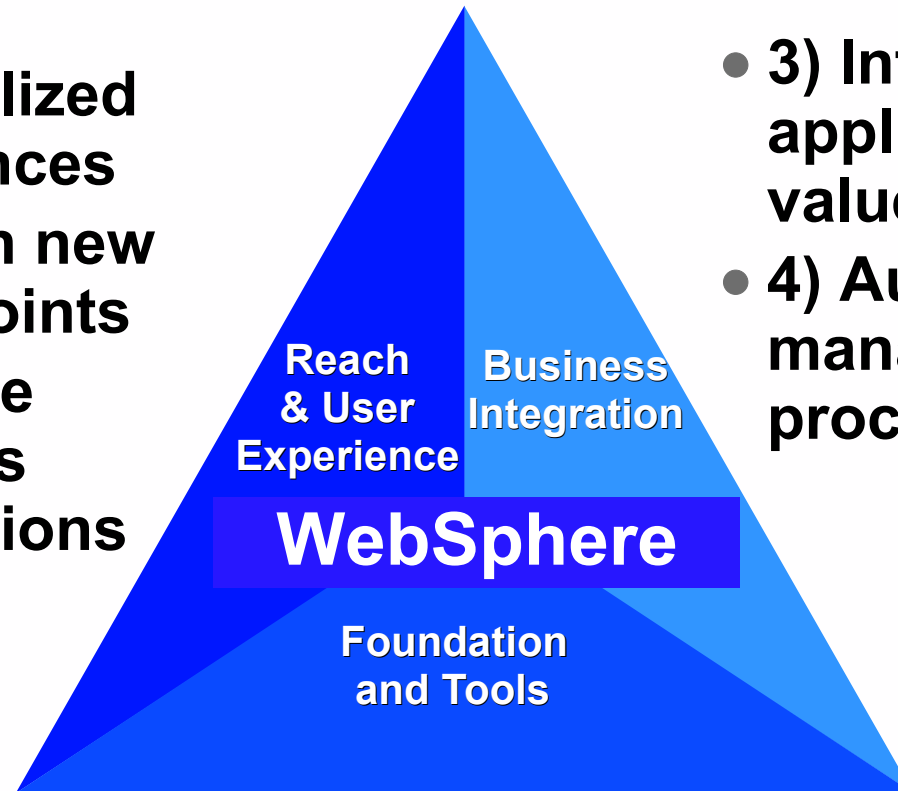
Achieve Productivity & Scalability

By Rapidly Building, Reliably Growing Dynamic e-business Applications

What is holding firms back from dynamic e-business?

The ability to:

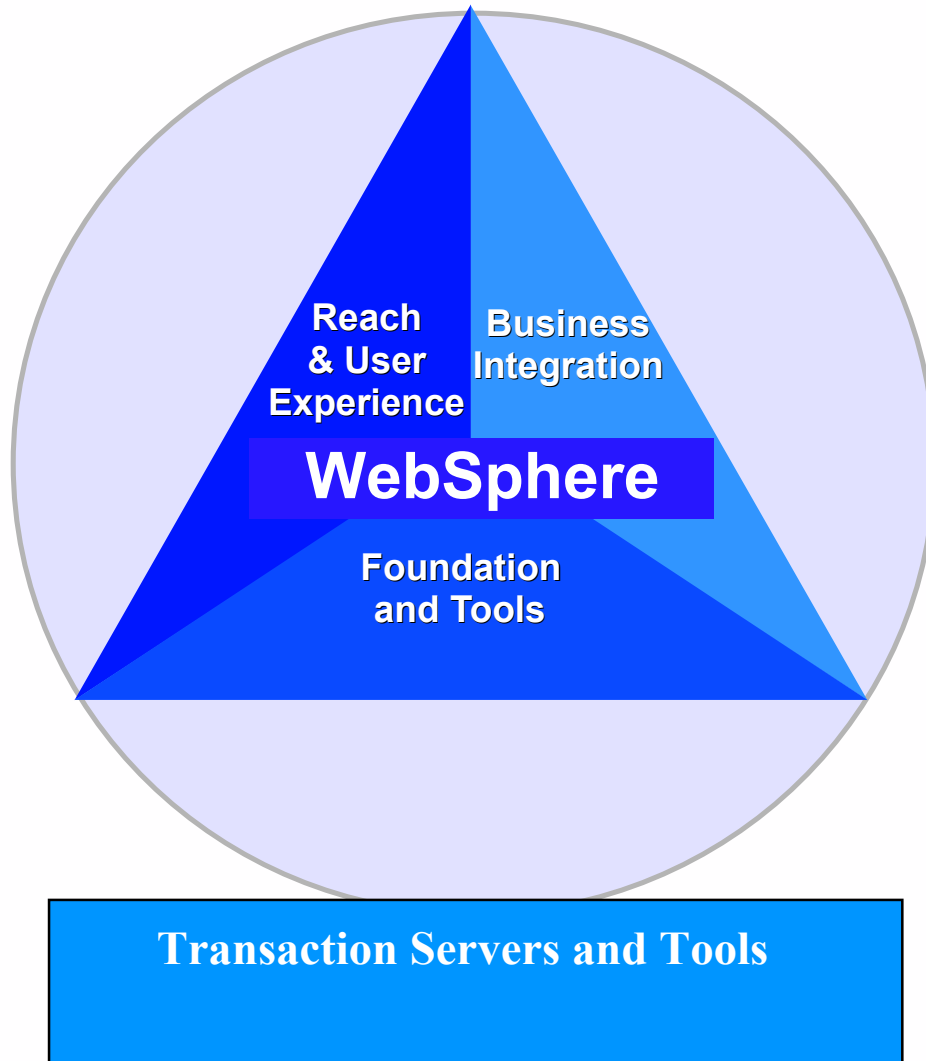
- 5) Drive personalized experiences
- 6) Reach new touch points
- 7) Enable business transactions



- 3) Integrate applications across value chain
- 4) Automate & manage business processes

- 1) Rapidly develop e-business applications
- 2) Deploy reliable and scalable infrastructure

WebSphere Pyramid Built on a Solid Foundation



WebSphere has the heritage and rock solid reliability of IBM TransactionServers and Tools at its base, so you know you can bring the robustness of the mainframe to your Web infrastructure.

Key IBM Transaction Servers and Tools

- Transaction Servers eg:
 - IBM CICS TS
 - IBM TX Series
 - TPF
- Connectivity eg:
 - CICS Transaction Gateway
- Tools eg:
 - Fault Analyzer
 - File Manager
 - CICS Performance Analyzer
- Compilers

Enterprise Modernization

- What is it?
 - ▶ Enterprise Modernization is the liberation of core business assets to satisfy new e-business application development
- Why modernize?
 - ▶ Reuse is cheaper than writing new
 - ▶ Bridge the development skills gap with a common toolset for both Web and Legacy programmers. (850K+ COBOL developers)
 - ▶ Leverage existing systems, applications and skills to create Dynamic e-business with excellent Returns on Investment.
 - ▶ Modernization accelerates the e-business adoption for competitive advantage
- Why IBM?
 - ▶ IBM customers have significant business knowledge invested in enterprise systems (over 180 billion LOC and 5 Billion new each year)
 - ▶ Customers want to leverage Qualities of Service built in enterprise systems
 - ▶ Web Services makes it easier to leverage these assets today

Enterprise Modernization Challenges/Hurdles

- **Legacy not ready for integration** into Web Application Architecture
 - Tedious and costly manual analysis and harvesting
- **Scarcity of Skills** and Steep learning curve (or perception of steep learning curve)
 - Complex new/emerging technologies (XML, SOAP/WSDL, Struts, EJB, JCA, etc)
 - Massive amounts of traditional technologies (COBOL, PL/I, CICS, IMS)
 - Need to include new developer communities
- **Multiple Artifacts**
 - More complex Application design
 - Fragmented development process
 - Responsibility boundaries and Communication among team member
 - Error prone integration, test and build
 - Multiple point tools and multiple skills must be in place
- **Clashes between development groups**
 - COBOL developers know the enterprise applications, hold the business knowledge, Java developers have the web knowledge
- **Too much backlog** and not enough time to deliver



High Costs

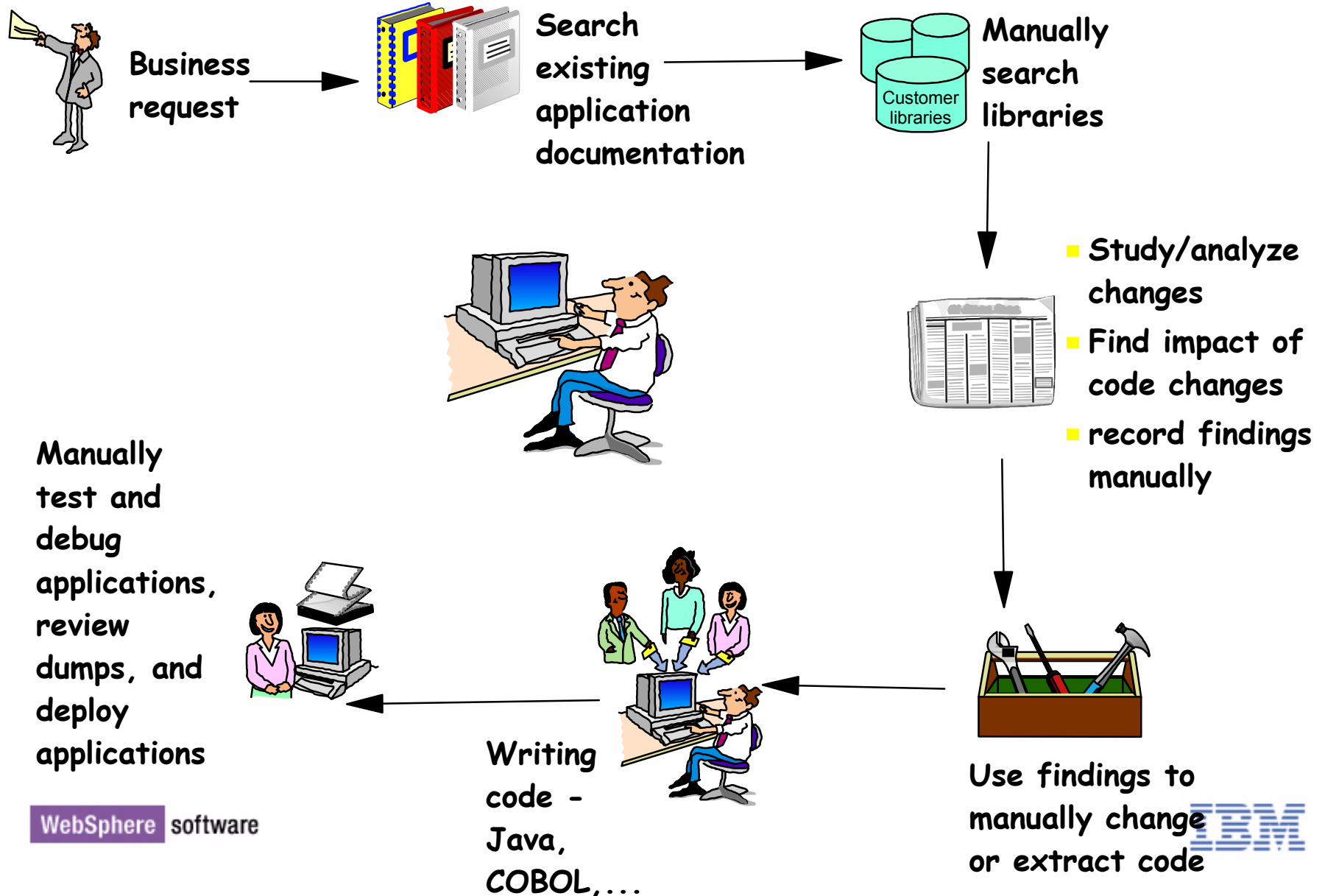


High Risk



Slow Delivery

How would companies modernize enterprise applications today?



Customer Pains/Requirements

Who are the key players in the move to an e-business?

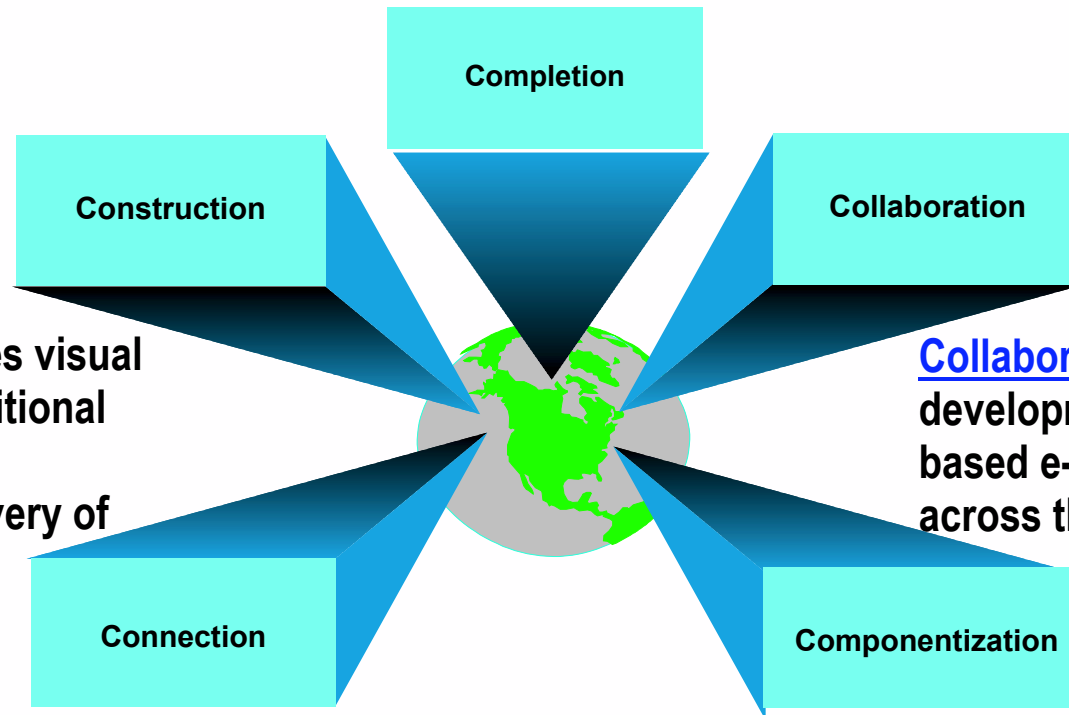
Key Player	Pain
CFO	<ul style="list-style-type: none">■ Controlling and managing his IT budget
CIO/IT Executive	<ul style="list-style-type: none">■ Cost increases for the move to e-business■ Cannot deliver e-business applications fast enough
IT Manager	<ul style="list-style-type: none">■ Costs of deploying new applications■ Scarcity of highly skilled professional resources■ Low developer productivity■ High training costs and long learning curve■ Complexity of e-business development process
IT Professional	<ul style="list-style-type: none">■ e-business applications are complex and difficult to develop

How can Enterprise Modernization help your pains?

- **Reduce** e-business application development time
 - **Shorten time** for debug, test, and deployment
 - **Eliminate** web and traditional organizational barriers
 - **Reduce** skills and technical challenges of e-business
 - **Improve** e-business development processes
- **Speed** integration of existing core applications with new e-business applications
 - **Reuse** IT assets as components
- **Save costs and time** by training developers on **one common toolset** regardless of their role in e-business application development

Enterprise Modernization Strategy

Completion - speeds the movement of applications from the development process through system test to production



Construction - provides visual tooling to include traditional and business oriented developers in the delivery of mission critical J2EE applications

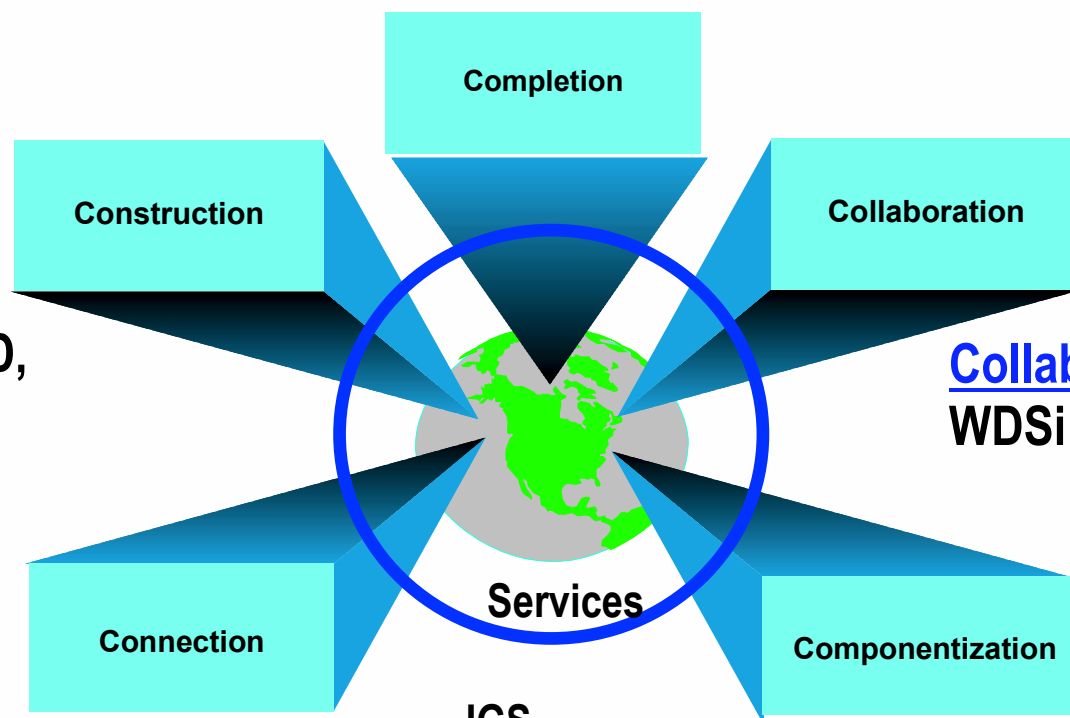
Collaboration - facilitates team development of component based e-business applications across the enterprise

Connection - helps connect and reuse legacy enterprise applications for e-business by using connectors

Componentization - promotes the transformation of legacy Enterprise Applications into components and the integration of these components into new e-business applications.

Enterprise Modernization New Products/Services

Completion -Fault Analyzer,File Manager, Debug Tool
Workload Simulator, Application Monitor



Construction - WSED,
WDSi

Collaboration - WSED,
WDSi

Connection - WSED, WDSi,
WSAA, WebSphere Portfolio,
CICS Transaction Gateway

IGS
Accenture
CAP Gemini E&Y

Componentization -
WSAA, WSED

any enterprise component
can be Web Service



EM Offering Value Proposition

IBM Enterprise Modernization offering	Benefit/Value Statement
Addresses traditional and new developers	<ul style="list-style-type: none">■ More productive developers■ More applications with higher quality■ Easier core application integration■ More reuse
Supports the complete development process	Speed through the process and lessen time to market
Maximize development resources by including business oriented developers (EGL)	Applications meet business needs
Supports all transaction environments	Deployment flexibility today and tomorrow.

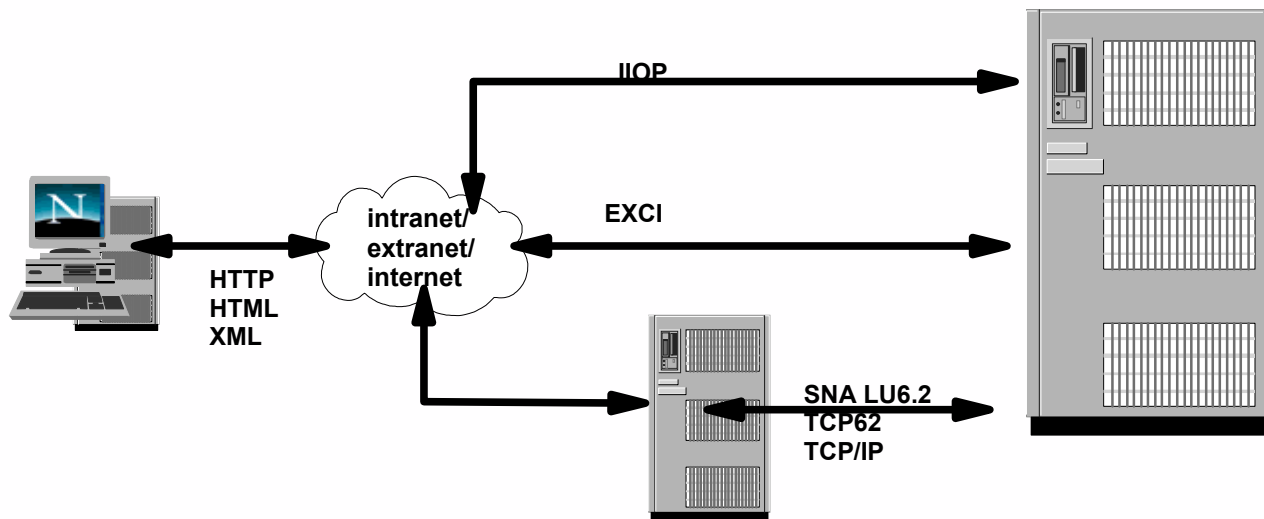
Enterprise Modernization: Connection

■ Objective

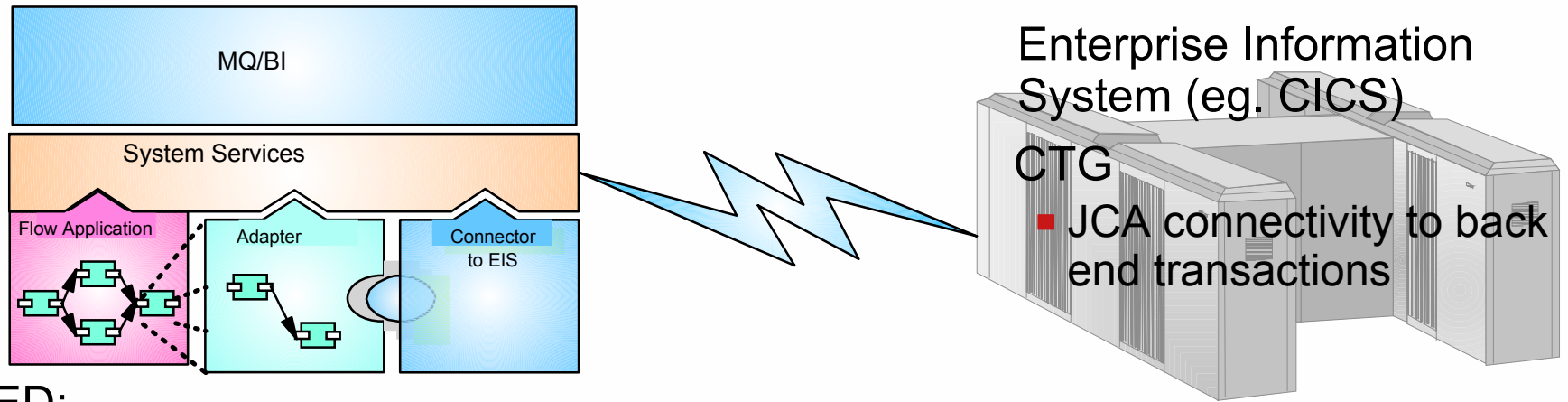
- ▶ *Simplify the connectivity or access to host components using one common connector building tool*

■ Value

- ▶ *By easing the burden of connecting disparate applications and technologies, customers can realize savings by modernizing and reuse.*



Enterprise Modernization: Connection



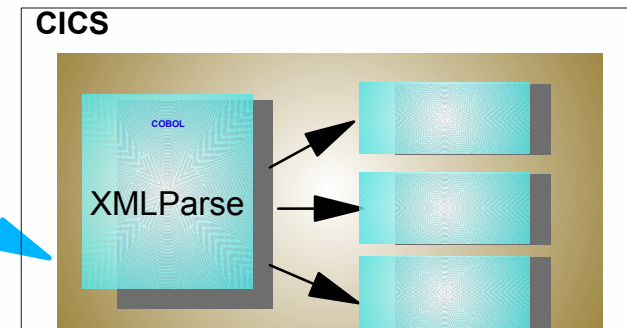
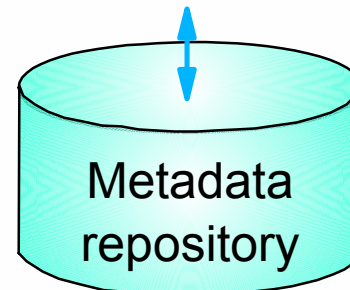
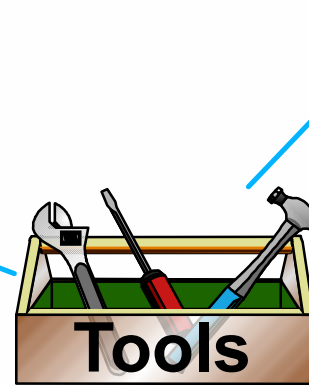
WSED:

- generates command beans
- enables migration from CCF
- Imports metadata (eg. COBOL copybook)
- Generates WebSphere and Enterprise based transformers

WSAA

- scans artifacts and builds metadata repository
- Connector builder assistant creates metadata files

WebSphere creates



Enterprise COBOL

- processes XML messages
- accesses enterprise business logic and databases



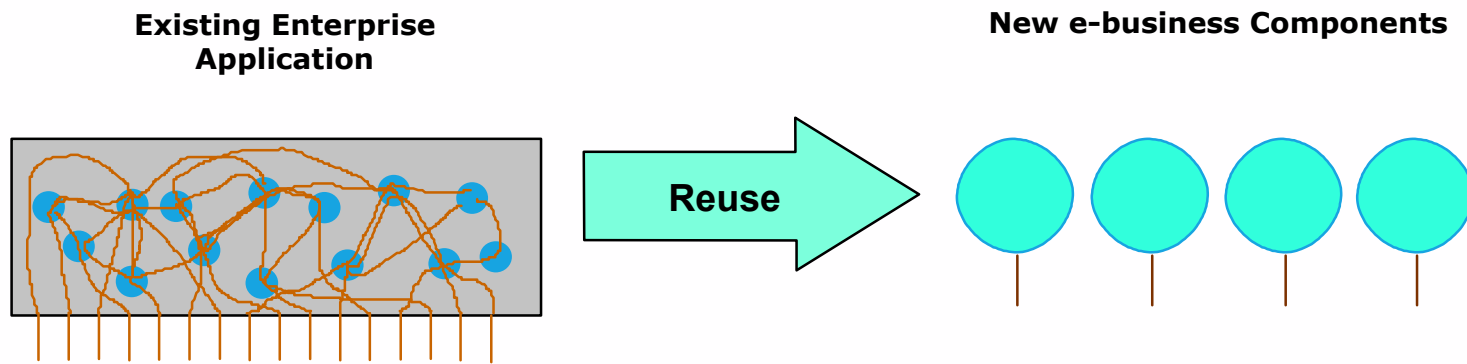
Enterprise Modernization: Componentization

- Objective

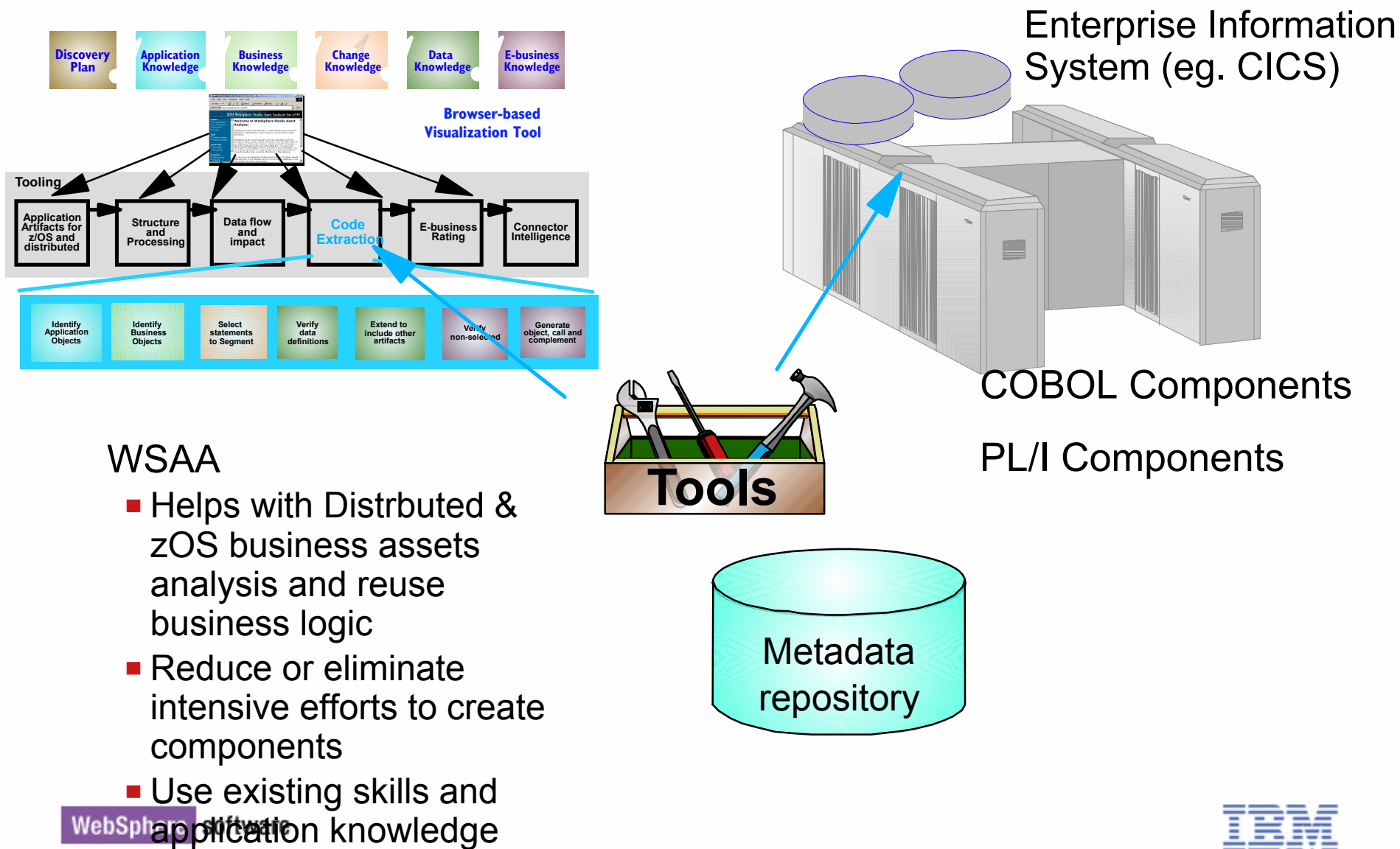
- ▶ *Reuse existing applications as components*

- Value

- ▶ *Position for evolution to dynamic e-business*
 - *Deliver knowledge to speed developer action*
 - *Reuse of IT assets as components*
 - *Rapid application creation and maintenance*



Enterprise Modernization: Componentization



WSAA

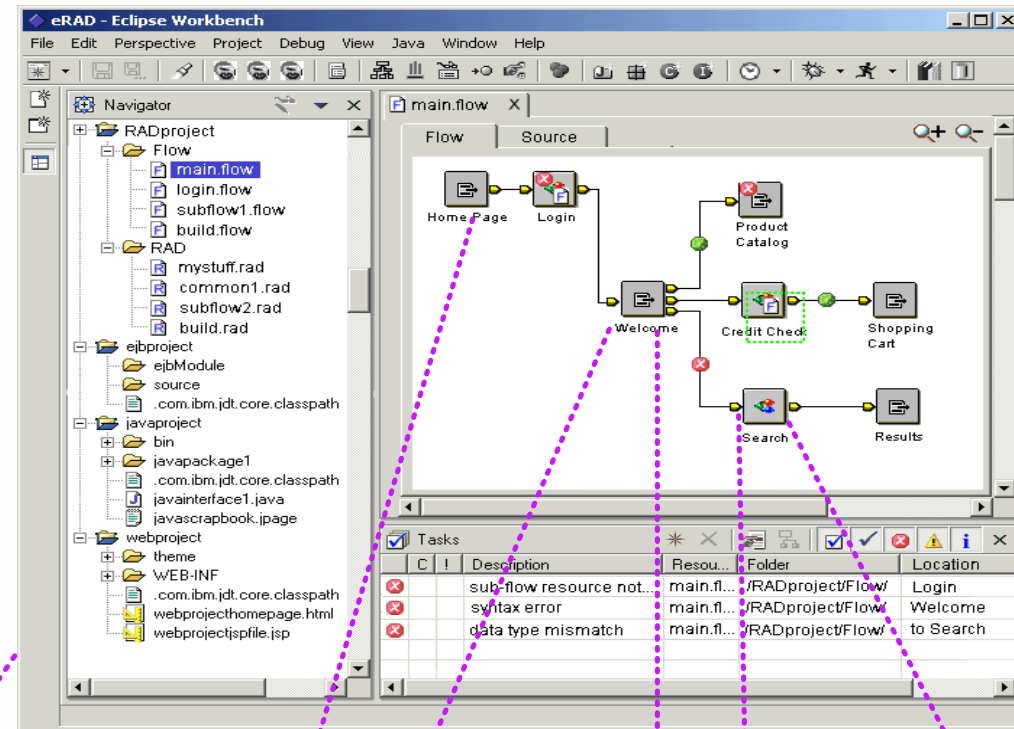
- Helps with Distributed & z/OS business assets analysis and reuse business logic
- Reduce or eliminate intensive efforts to create components
- Use existing skills and application knowledge

Enterprise Modernization: Construction

- Objective:
 - ▶ *Facilitate enterprise wide e-business J2EE component based development using a common component assembly tool*
- Value:
 - ▶ *Enable all developers to participate in E-business more readily*
 - ▶ *Facilitate component construction and best practices*
 - ▶ *Include many more areas of expertise in the process*

WebSphere Studio Enterprise Developer Component Assembly and Building

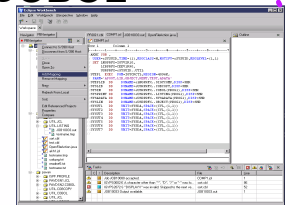
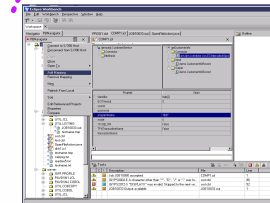
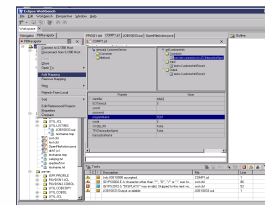
- Common component assembly environment for all types of Developers
- Composing e-business App from components
- Creating & documenting business logic flow
- Assemble web, app server, and z/OS components
- Generate Java Flow components
- **VALUE**
 - ▶ Accelerate creation of new e-business applications
 - ▶ Include all enterprise developers in the process



Build
JSP

Edit/
Debug
EGL

Edit / Debug
COBOL



Enterprise Modernization: Collaboration

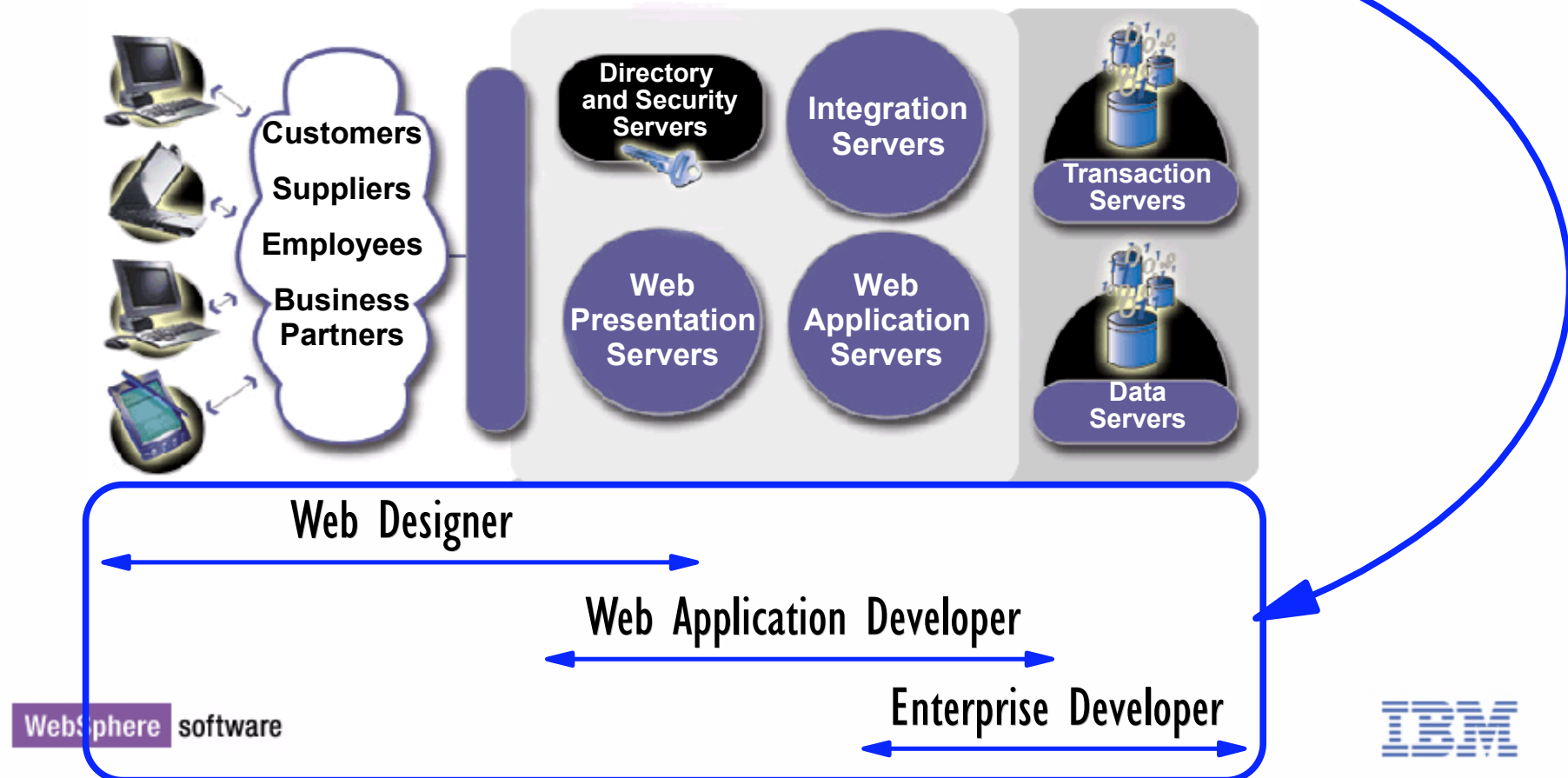
- Objective:
 - ▶ *Facilitate e-business team development using a common development platform*

- Value:
 - ▶ *Enable business to become an E-business more quickly,*
 - ▶ *Allow developers to participate and build on their existing skills*
 - ▶ *Improve teaming and communications among development groups*

WebSphere Studio Workbench

Enterprise Modernization: Collaboration

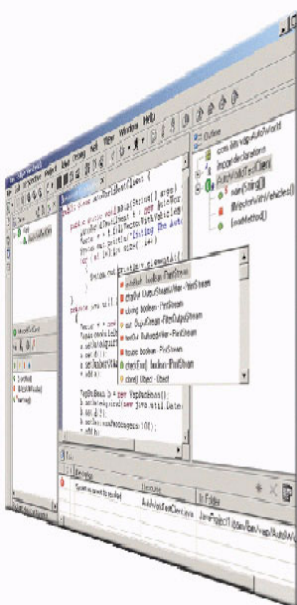
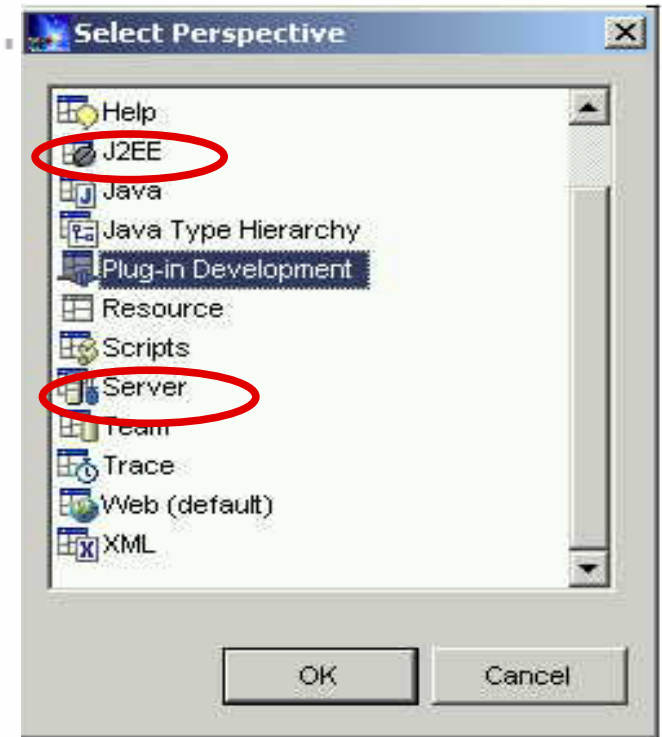
An open, integrated, personalized, extensible environment enabling multiple developer **"Perspectives"**



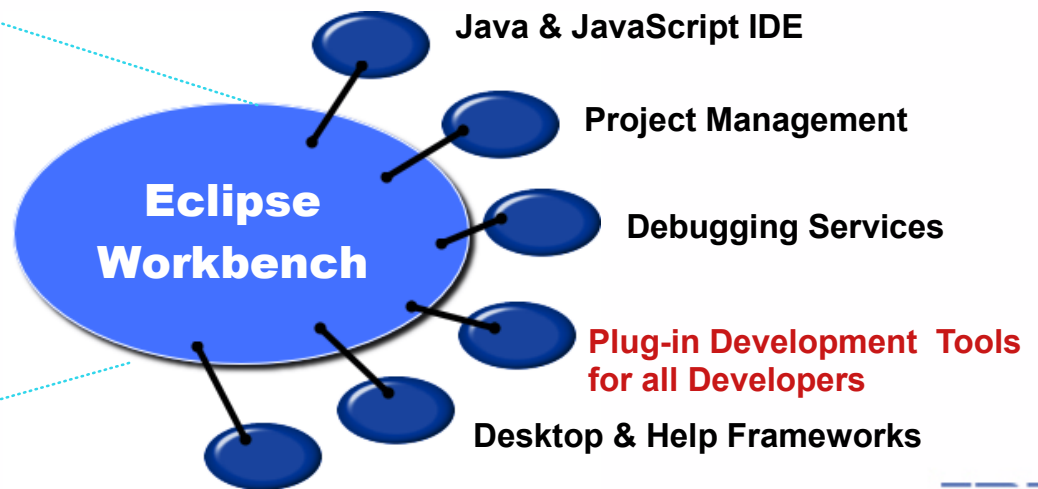
Eclipse Workbench

An Open Tool Integration Platform

A common development platform for all developers including Web, Java, COBOL, EGL, PL/I and RPG programmers



Products built with Eclipse inherit these capabilities plus 'plug-ins' built by others



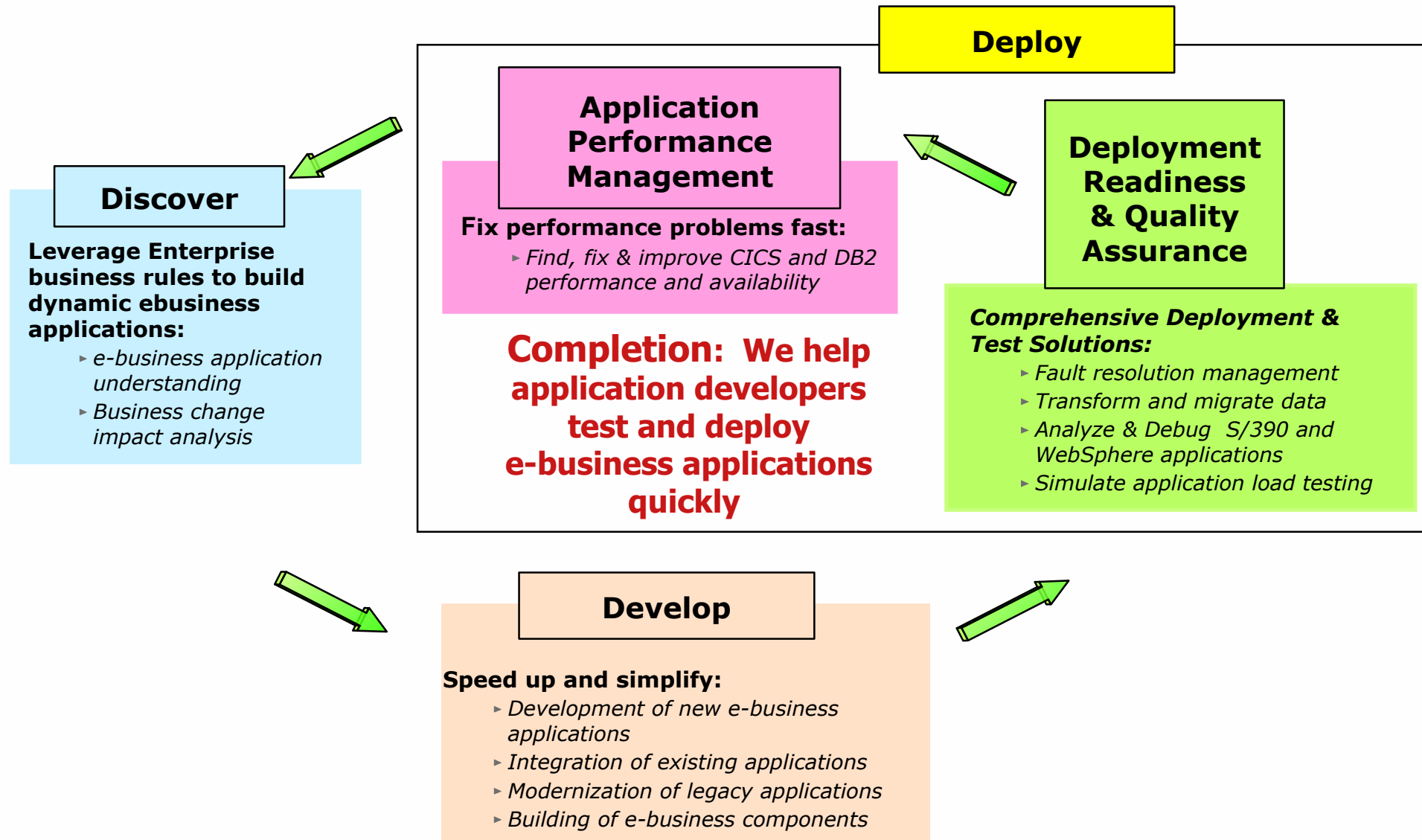
Local & Team (CVS) Resource Management



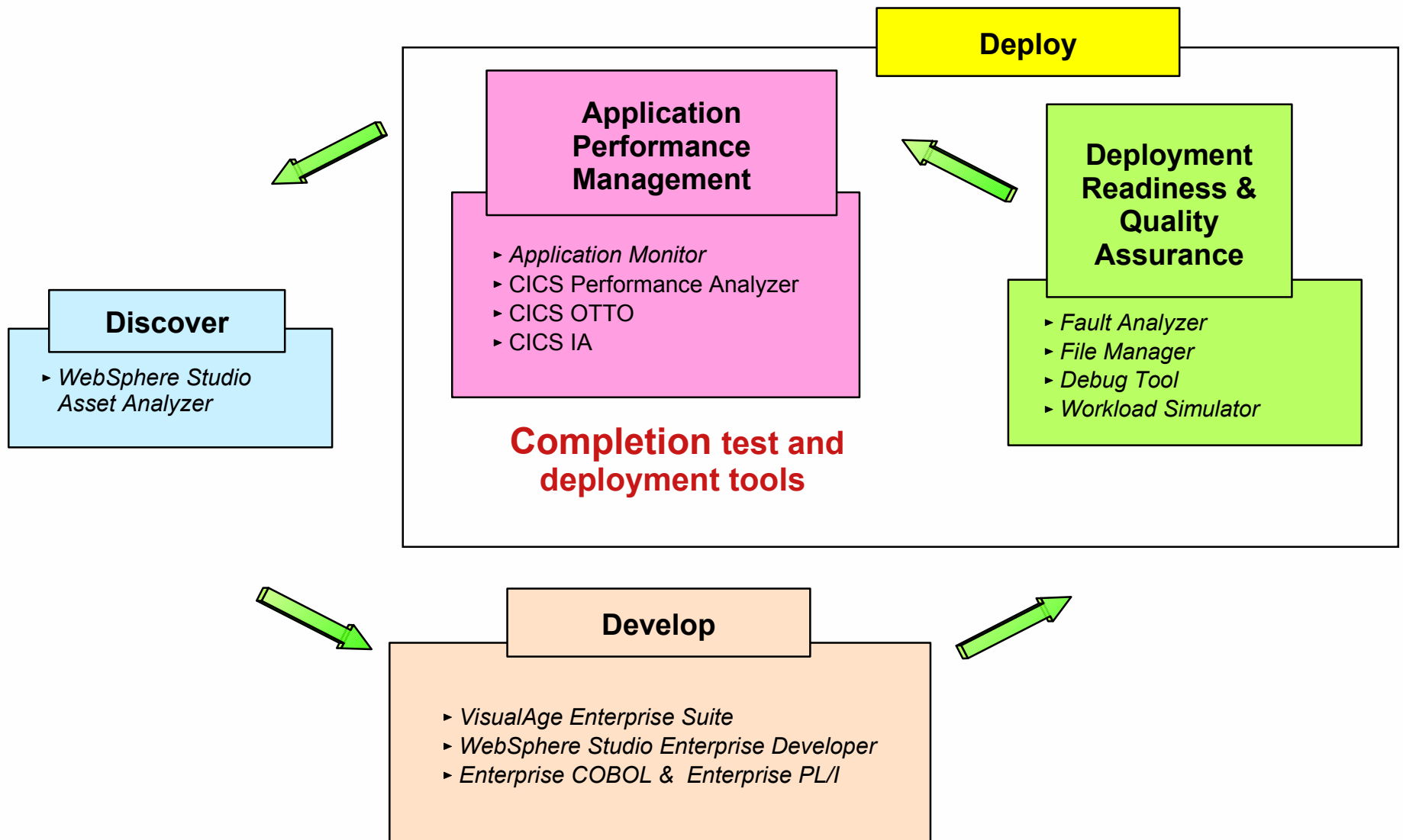
Enterprise Modernization: Completion

- Objective:
 - ▶ *Enable developers to move through the testing and implementation cycle in a timely, cost effective manner*
- Value:
 - ▶ *Deploys robust, high quality applications more quickly*
 - ▶ *Lowers TCO of development and platforms*

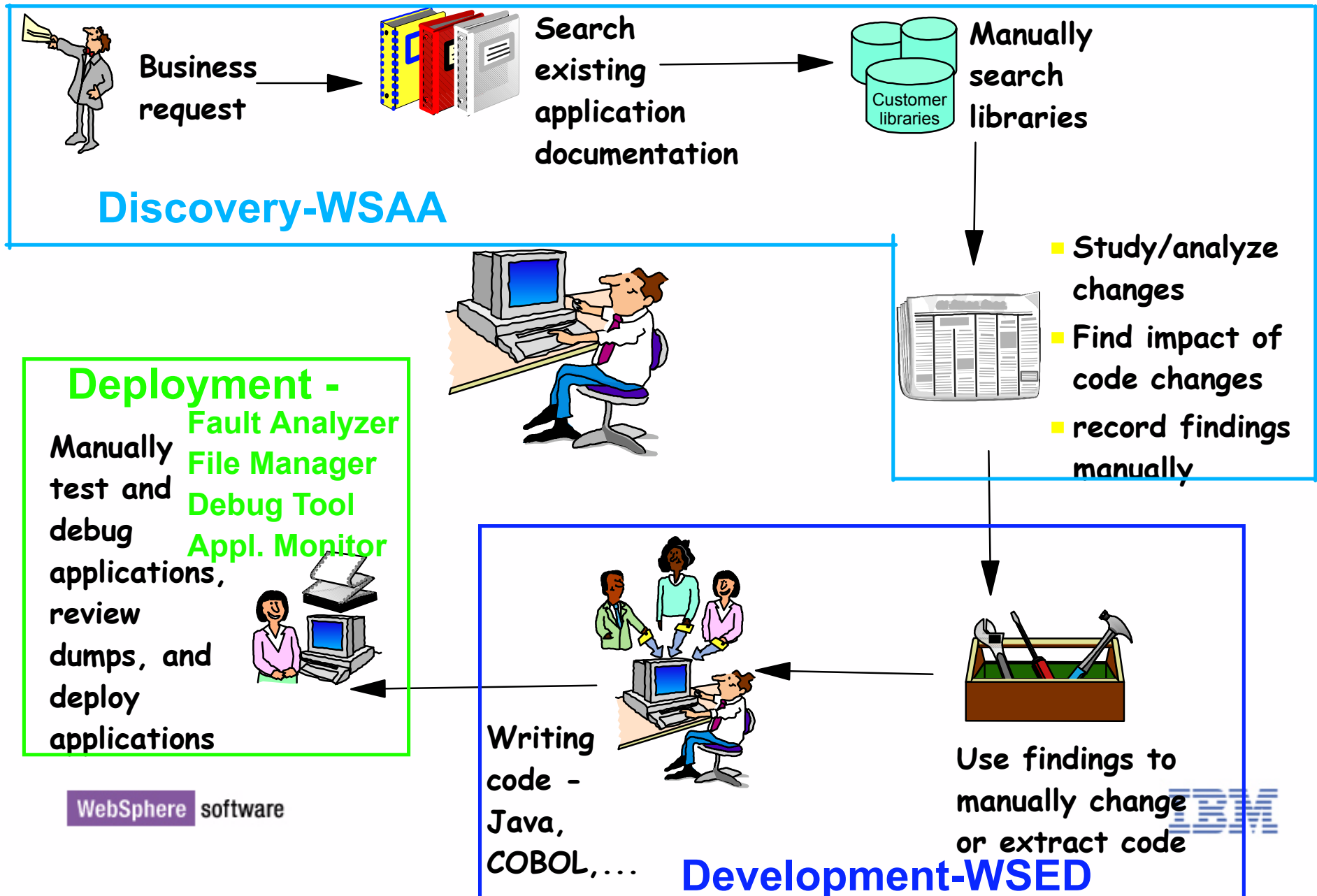
Enterprise Modernization : Completion



Enterprise Modernization : Completion Offerings



How can customers modernize enterprise applications with the tools of IBM's EM strategy?



Competition vs. IBM

Company	Legacy Understanding	Legacy Development	Web Understanding	Web Development
Compuware	X	X		X
Seec	X			
MicroFocus	X	X		
Relativity	X			
Borland				X
MicroSoft				X
WebGain				X
Sun		X		X
IBM	X WebSphere Studio Asset Analyzer	X WebSphere Studio Enterprise Developer	X WebSphere Studio Asset Analyzer	X WebSphere Studio Enterprise Developer

Business Partner Overview

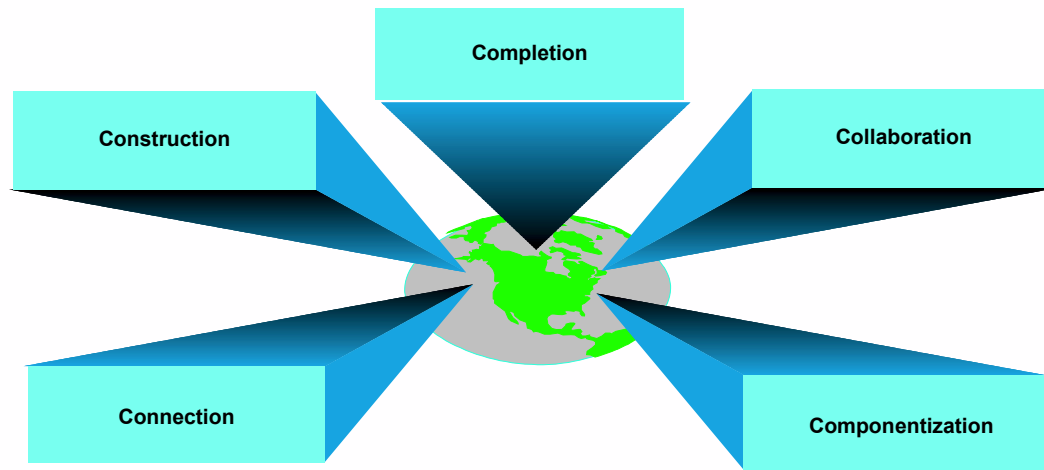
- This page is for the business partner to provide an overview of the IBM Customer Loyalty Solution; page may be inserted where needed within the presentation
 - ▶ Business Partner Supplied Bullet #1
 - ▶ Business Partner Supplied Bullet #2
 - ▶ Business Partner Supplied Bullet #3
 - ▶ Business Partner Supplied Bullet #4
 - ▶ Business Partner Supplied Bullet #5

Next Steps

- **WebSphere Enterprise Modernization Executive Assessment**

- ▶ Using the IBM Executive Assessment, **(IBM Business Partner)** will meet with you to conduct an e-business assessment of your company
 - will work with you to map out the required hardware, software, and services necessary to meet your company's needs
 - this assessment takes approximately 2 - 3 weeks
- ▶ After the initial visit, the customer will get:
 - an in-depth analysis of findings which includes the recommended business solution(s)
 - strategic and tactical proposal
 - competitive Website analysis (as applicable)
 - ROI analysis (where appropriate)
- ▶ Download the executive assessment at:
 - <http://www.ibm.com/partnerworld/software>

Enterprise Modernization Summary



- **Reduce the e-business application development time**
 - ▶ Use of industry standards can accelerate development
 - ▶ Eliminate Web & Traditional developer organizational barriers
 - ▶ Reduce skills and technical challenges of e-business
- **Position for evolution to dynamic e-business**
 - ▶ Reuse of IT assets as components
 - ▶ Rapid application creation
 - ▶ Extend developer community in the organization
- **Bridge the development skills gap with a common toolset for both Web and Legacy programmers**

Useful Websites

- <http://www.ibm.com/partnerworld>
(select "software" track)
- <http://www.redbooks.ibm.com/>
("how to" practices on SW)
- <http://www.developer.ibm.com>
(PartnerWorld for Developers)
- <http://www.ibm.com/websphere>
(dedicated WebSphere site)
- <http://www.ibm.com/software/websphere>
(SW info, case studies, latest news,
connection to all Websphere related sites)
- <http://www.ibm.com/software/ad/casestudies/>
- (See customer references)

WebSphere software



Thank You

Business Partner Name, Date

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