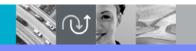


IBM Software Group

Enterprise Modernization Made Easy with IBM Development Tools





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Enterprise Modernization Agenda

- Positioning
- Improve
- Transform
- Innovate
- Summary





Meeting the On Demand Challenge

Significant business intelligence exists

- "200 Billion lines of COBOL code in existence" eWeek
- ▶ "5 Billion lines of COBOL code added yearly" Bill Ulrich, TSG Inc.
- "Between 850K and 1.3 Million COBOL developers" IDC
- "Majority of customer data still on mainframes" Computerworld

Rewriting is an option but.....

- How long will it take?
- Who will do it?
- How much will it cost?



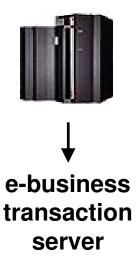


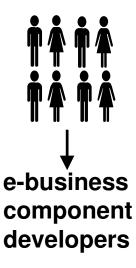


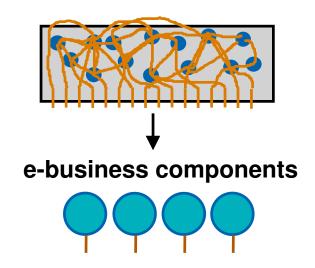
Enterprise Modernization Strategy

Leverage existing applications and skills

- reduce costs
- "New code costs 5X reusing existing code" Software Productivity Research
- achieving faster time to market

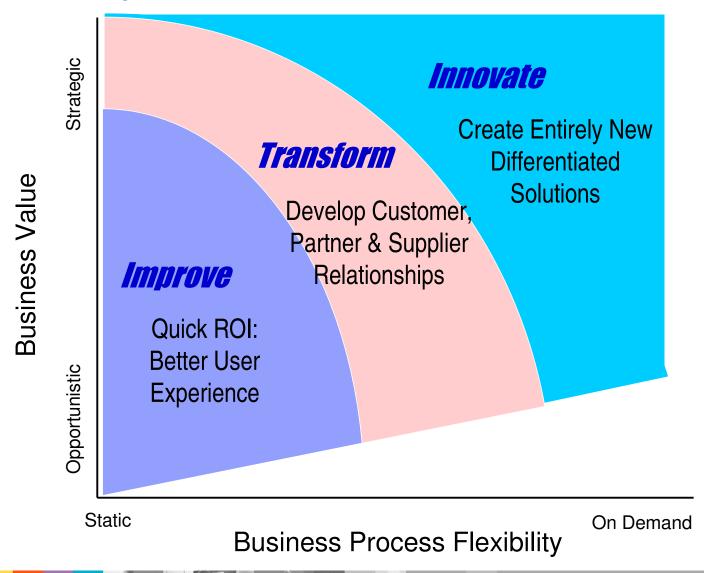








Three Styles of Modernization



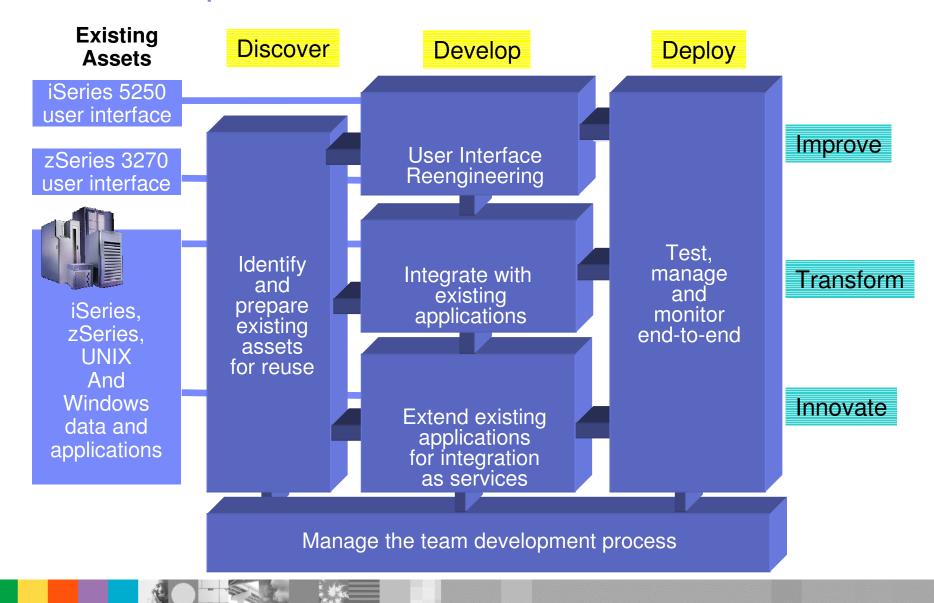


Modernization Styles: A Continuum of Solutions A roadmap for solving problems....

Segment	Problem	What value do customers want?	Solution
Improve	Application interfaces are difficult to use, user workflows are outdated	Quick ROI: Better User Experience	Improve the user interface and workflows of multiple mission-critical applications to reduce training costs, increase end-user productivity and extend reach to new users
Transform	Legacy applications cannot easily be integrated into modern workflows	Develop Customer, Partner & Supplier Relationships	Transform applications to participate in modern e-business workflows with lower risk than replacement strategies
Innovate	Mission critical processes cannot easily be adapted to changing market conditions	Create Entirely New Differentiated Solutions	Innovate by componentizing mission- critical applications to enable core processes to be independently modernized and flexibly integrated – on demand



IBM's Enterprise Modernization Solution





Enterprise Program Model

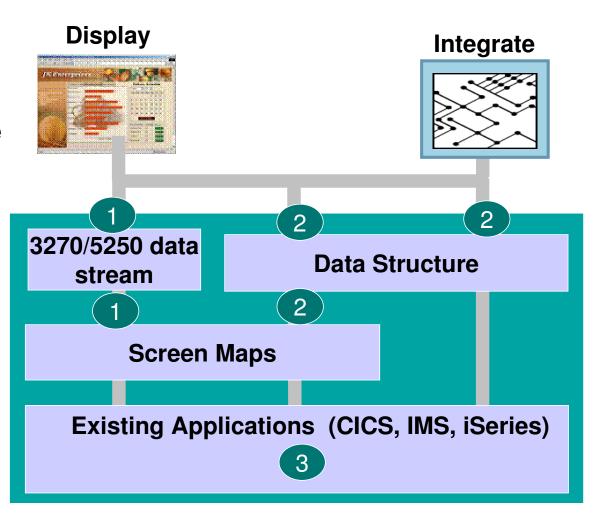
Develop



Value in circle = style

- Improve
- Transform
- Innovate

Position on diagram:
Point of interaction
with a program

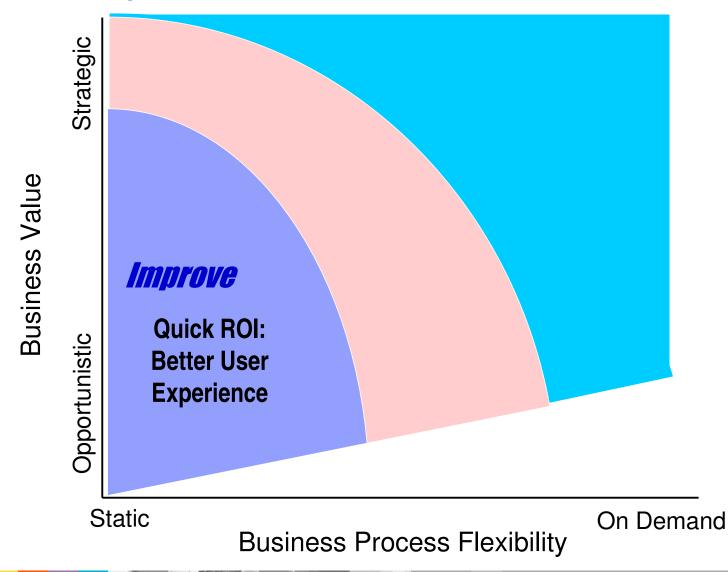






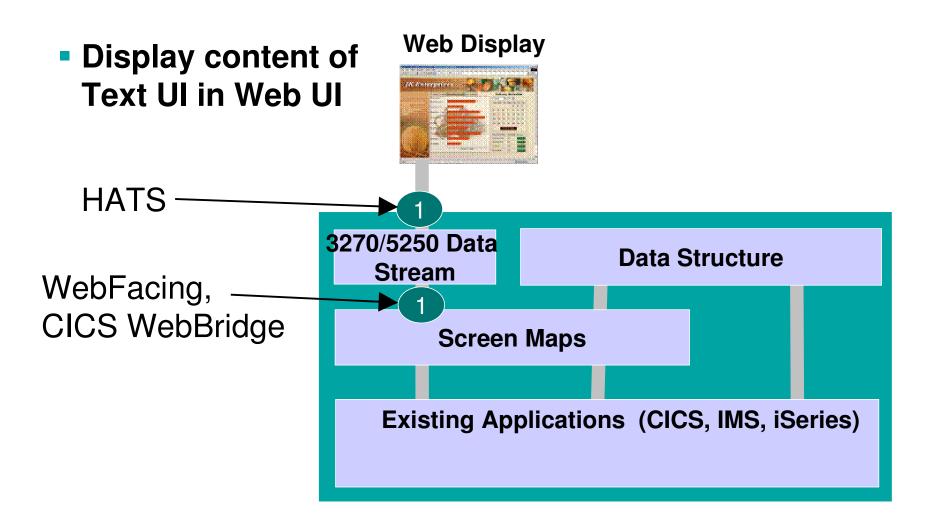
Three Styles of Modernization







Style 1: Improve the end-user experience





Host Access Transformation Server (HATS)

- A Web-to-host HTML emulator, with ...
- rules-based transformation engine, that...
- converts green screens to graphical user interfaces
- improves ease-of-use of host applications.



Benefit: Easily extend existing applications to the web





The IBM WebFacing Tool

- Part of WebSphere Development Studio for iSeries
- Supports 5250 and web interfaces
- Convert RPG/5250 applications to GUI
- End-users access applications via browser

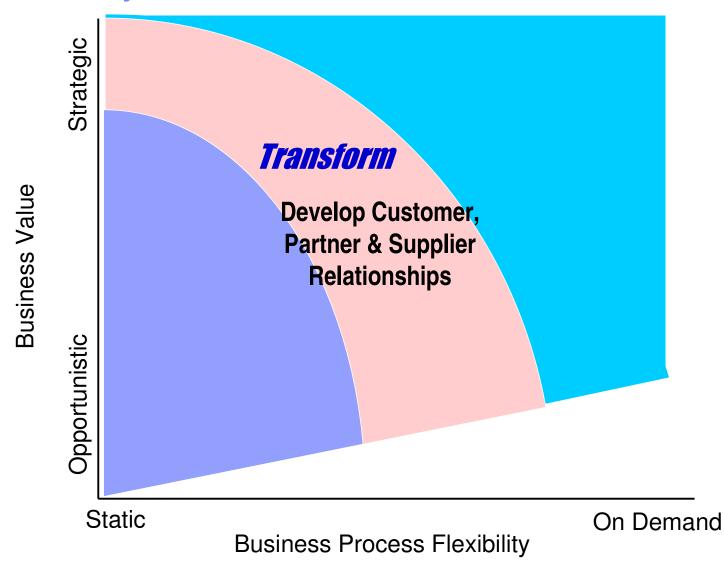






Three Styles of Modernization





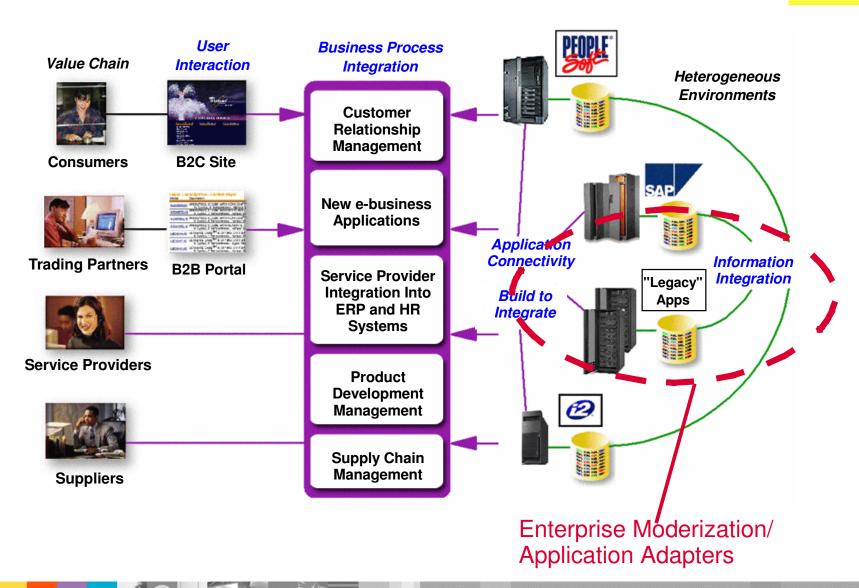


Devices

Network

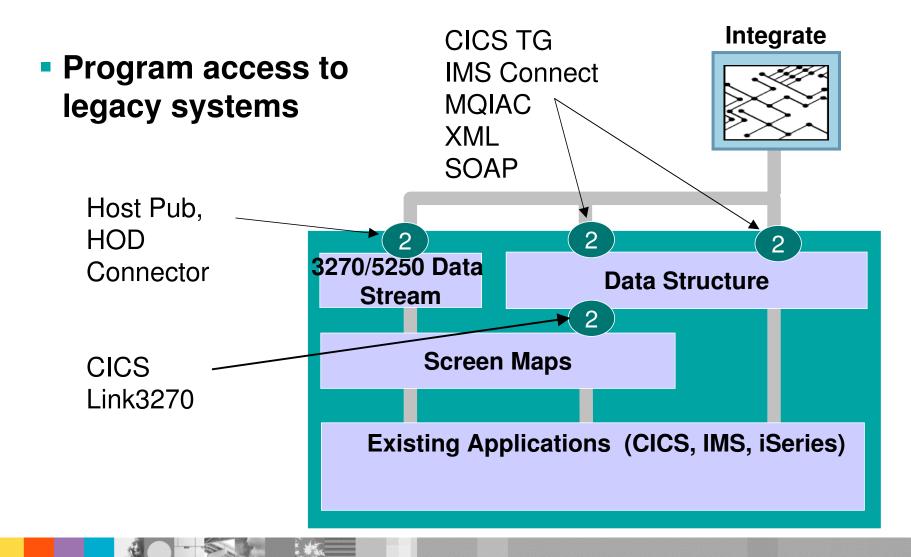
Data

Develop





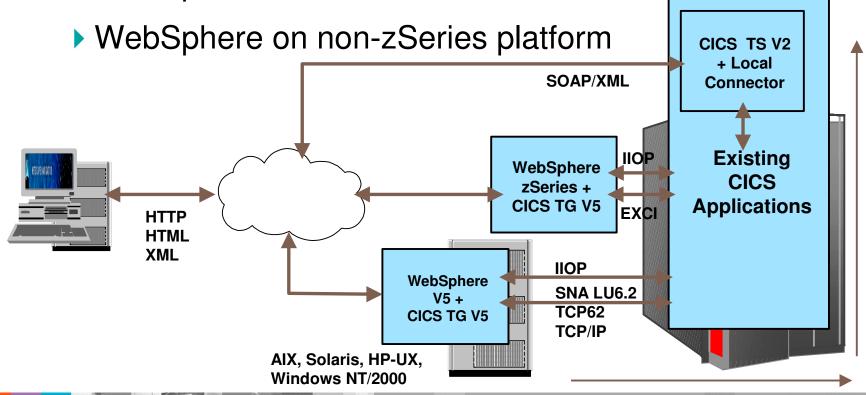
Style 2: Transform the business process





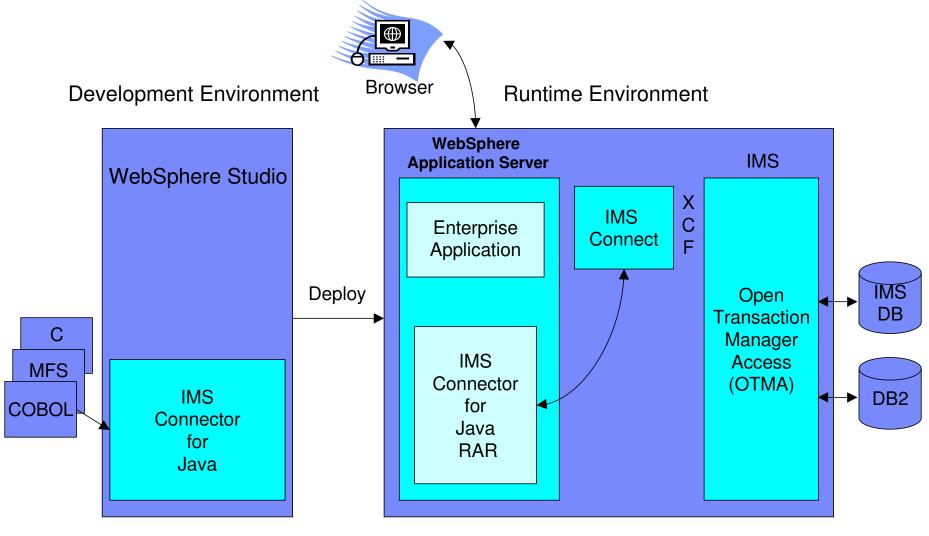
Ways to Access Existing CICS Applications

- SOAP requests over HTTP or MQ messages
- CICS Transaction Gateway
 - WebSphere on zSeries





IMS Connect



MQSeries Integrator Agent for CICS Transaction Server

Enable middle-tier applications to access CICS, IMS, and others

- Adapter flow is surfaced as a "Business Service"
- multiple transactions or applications accessed with one request from the client
- e.g., Check Account Balance, Add Sales Order

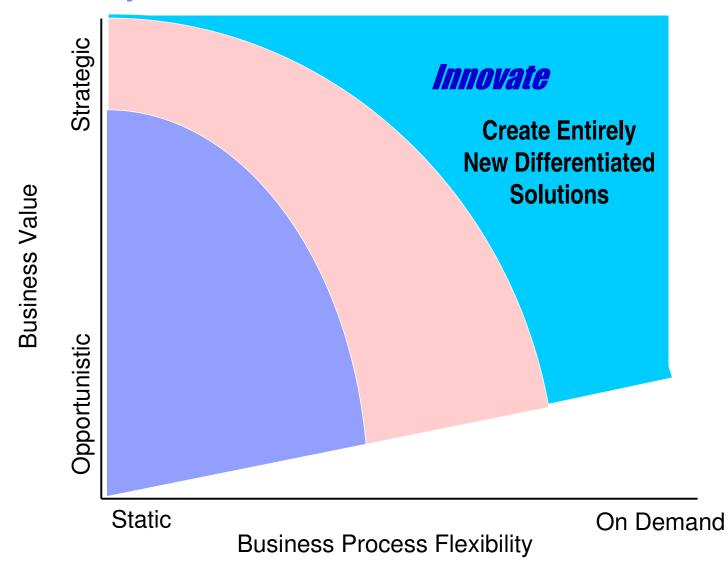
Two components

- MQSeries Integrator Agent for CICS Adapter Builder
 - Define, model, and build adapters for application integration
- MQSeries Integrator Agent for CICS Server Run Time
 - Execute adapters for application integration



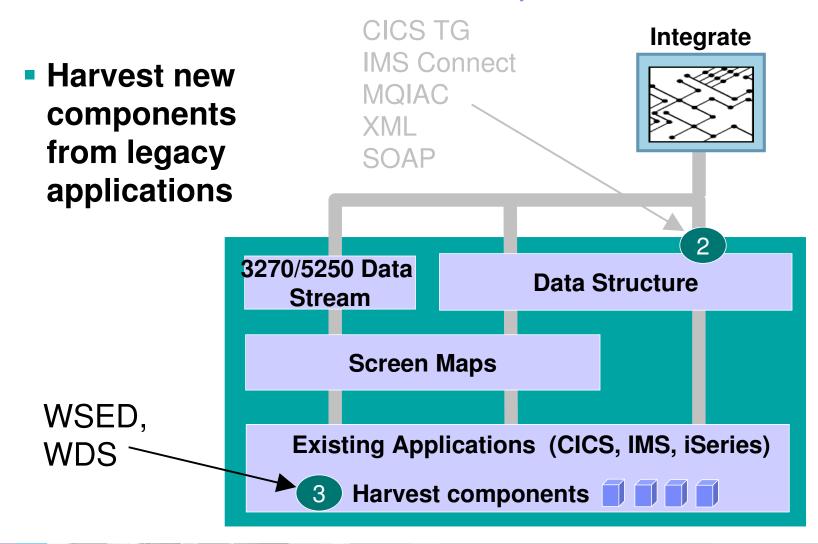
Three Styles of Modernization





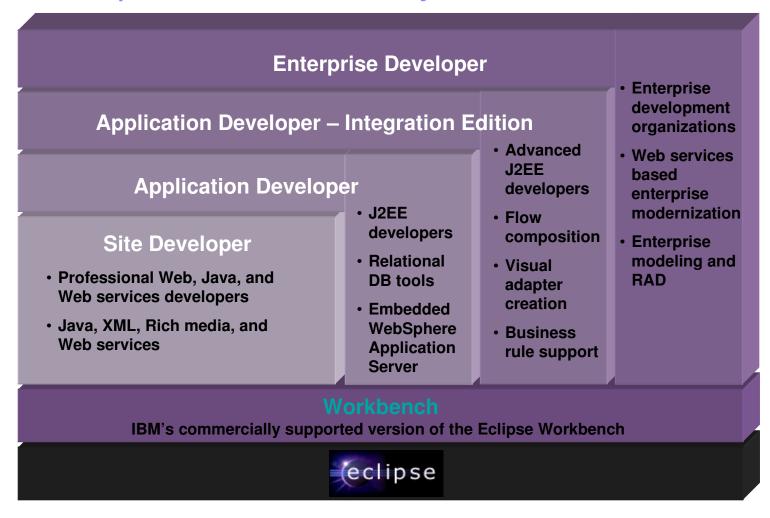


Style 3: Innovate new business components





The WebSphere Studio family

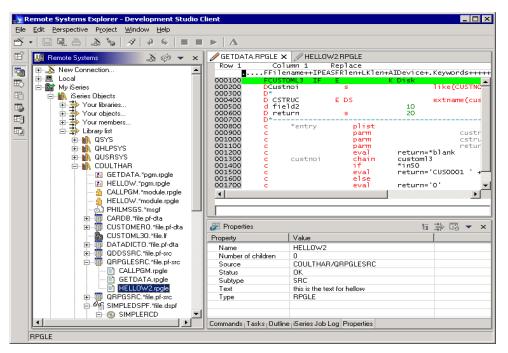






WebSphere Development Studio for iSeries

- For existing and new AS/400 web development
- "Wrapper" RPG applications as web service
- Modernize 5250 applications via WebFacing Tool

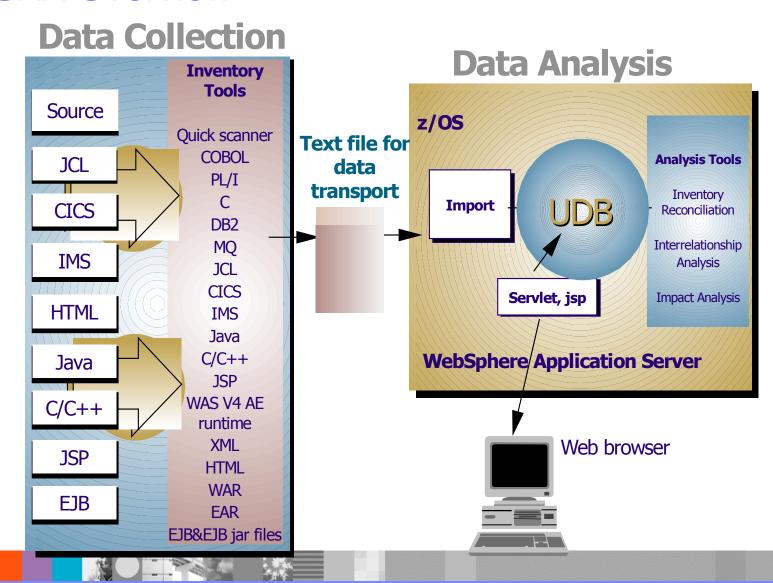






Discover

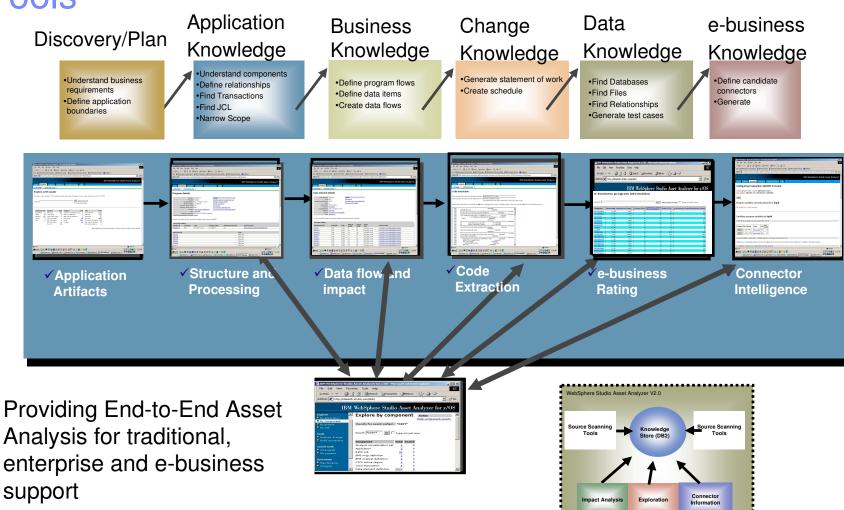
WSAA Overview





Discover

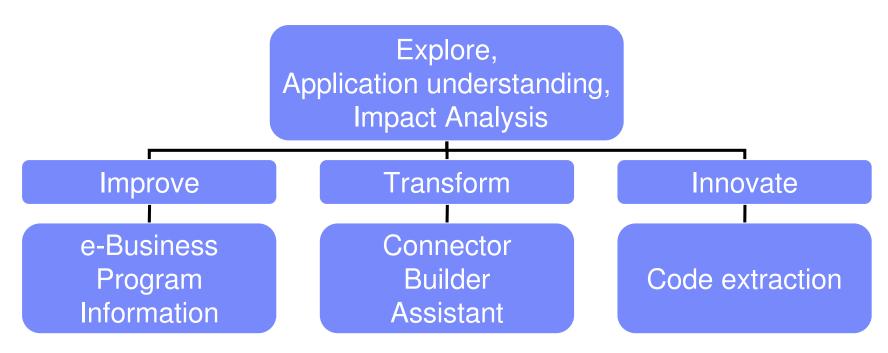
Tools





Discover

Using WSAA for Enterprise Modernization



- ■Improve: How may screen I/O's
- ■Transform: Package COBOL call info for Java programmer
- Innovate: Harvest code from existing programs

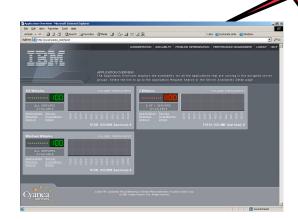


Deploy

WebSphere Studio Application Monitor

- Trouble-shooting
- Performance-monitoring
- Performance analysis





Benefit: Resolve performance problems with J2EE applications

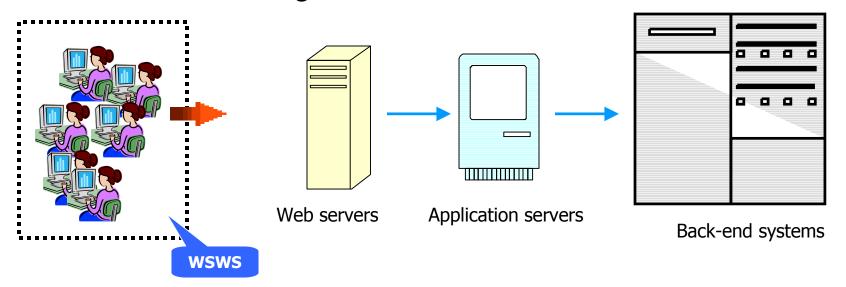




Deploy

WebSphere Studio Workload Simulator

Simulate a large number of web users



Benefits:

- Validate support for production loads
- Does <u>not</u> pre-req the WAS

Benefit: Test drive Web applications before you deploy



Deploy

Enterprise S/390 Development Tools

Application Monitor

real-time bottleneck analysis

Debug Tool

source-level diagnostics

Fault Analyzer

 application failure determination and resolution assistance

File Manager

Manipulates test and production data across multiple file formats

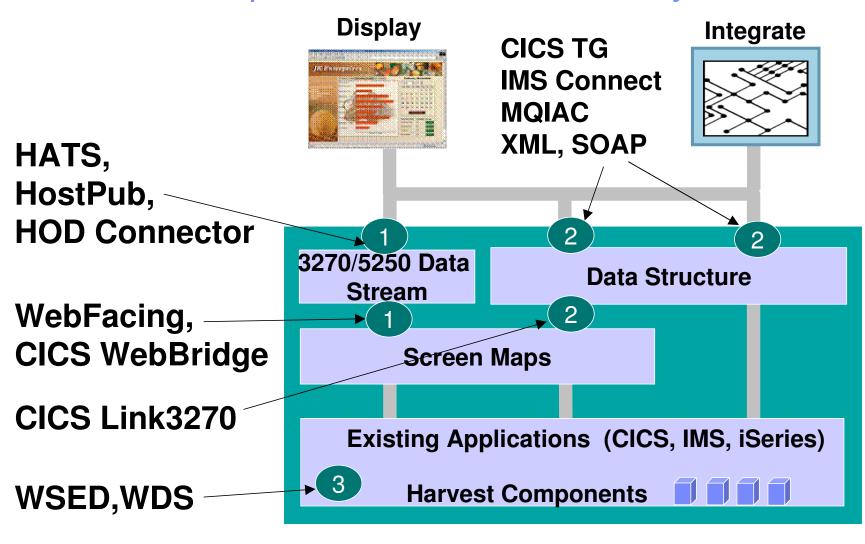
Workload Simulator

Web application load testing



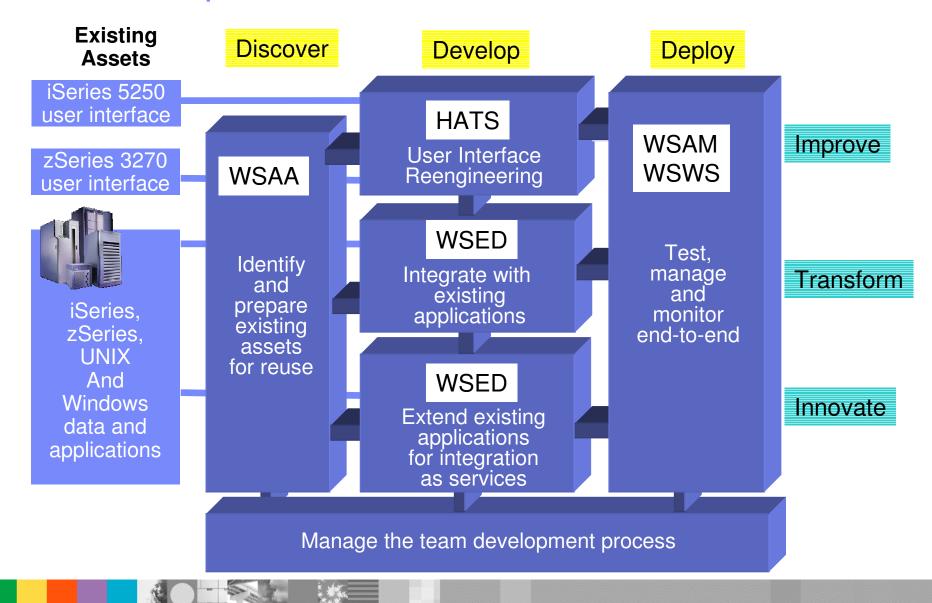


Points of Enterprise Modernization Today





IBM's Enterprise Modernization Solution





Three Styles of Modernization

