

Enterprise Modernization: Revolutionizing the economics of enterprise application development and maintenance



Today's Agenda

- **Introductions – Why are you here? What would you like to know?**
- **Enterprise Modernization Strategy and Overview - Mark Boyd**
- **A System z Developer's Day in the Life, Scenario-based Demonstration, Part 1 - Mark Boyd**
- **A System z Developer's Day in the Life, Scenario-based Demonstration, Part 2 - Wilbert Kho**
- **Why WebSphere Application Server on System z? - Fatima Otori**
- **SOA Connectivity and Integrated Solutions on System z - Fatima Otori**
- **Finding and Managing Your Business Rules Using iLog and Rational Asset Analyzer - Wilbert Kho**
- **Adjourn**



Challenges to achieving greater value from your IT investments

Applications



"We don't understand the effort, risk and impact of modernizing our legacy applications."



People



"Our skills gap keeps growing. How do we stay current with all the language and technology changes?"



Teams



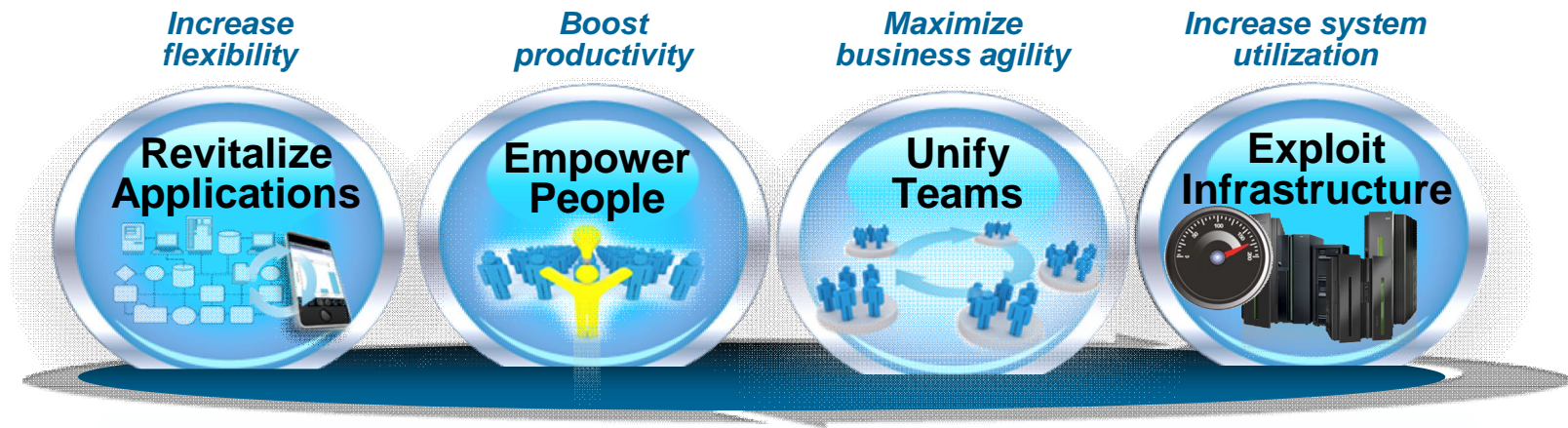
"Our teams on different platforms are struggling to communicate. How do we collaborate in the context of our work?"

Infrastructure



"We need a cost effective way to improve our infrastructure efficiency and free up capacity to handle more volume"

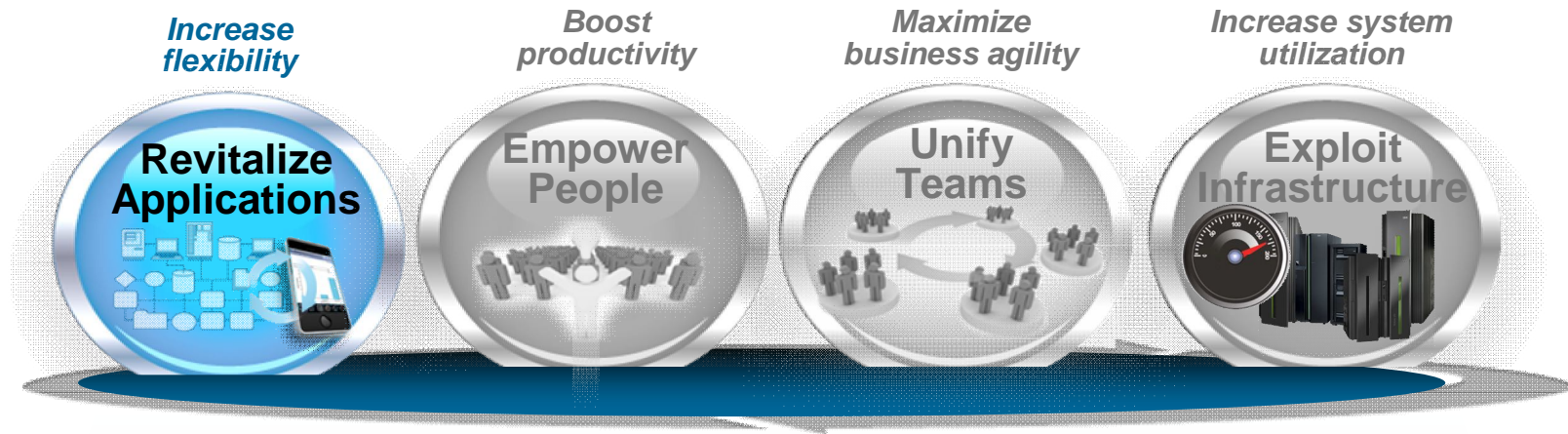
IBM Rational Enterprise Modernization solutions can help *Optimize your applications, people, team and infrastructure investments*



- **Increase flexibility** by revitalizing existing application portfolios
- **Boost productivity and accelerate innovation** with modern skills
- **Maximize business agility** by bridging organizational silos
- **Increase system utilization** by leveraging hardware capabilities

Rational Software Delivery Platform *powered by jazz*

Increase flexibility by revitalizing existing application portfolios



Business intelligence for applications

Enterprise architecture and portfolio management

SOA tools for all platforms and languages

Operational reuse

User interface modernization

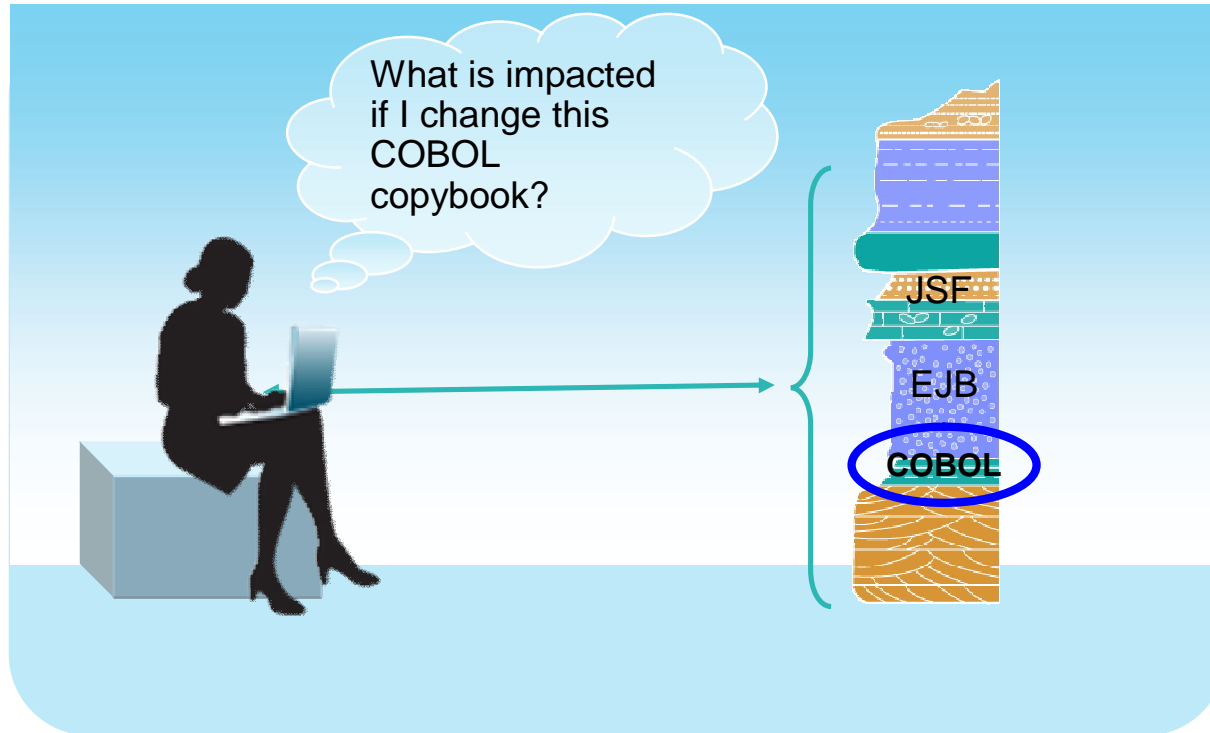
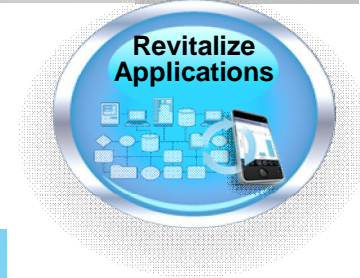
Application transformation tools and services

Quality across the organization

Rational Software Delivery Platform powered by *Jazz*

Enterprises want to...

Understand the impact and cost of change to their IT systems



But...

They have no business intelligence inventory of their application assets, relying instead on manual and error-prone processes and incomplete knowledge. They must compensate with more extensive planning and extra testing.

Solution: Business intelligence for applications

Restore lost application knowledge via technical analysis



Application Artifacts

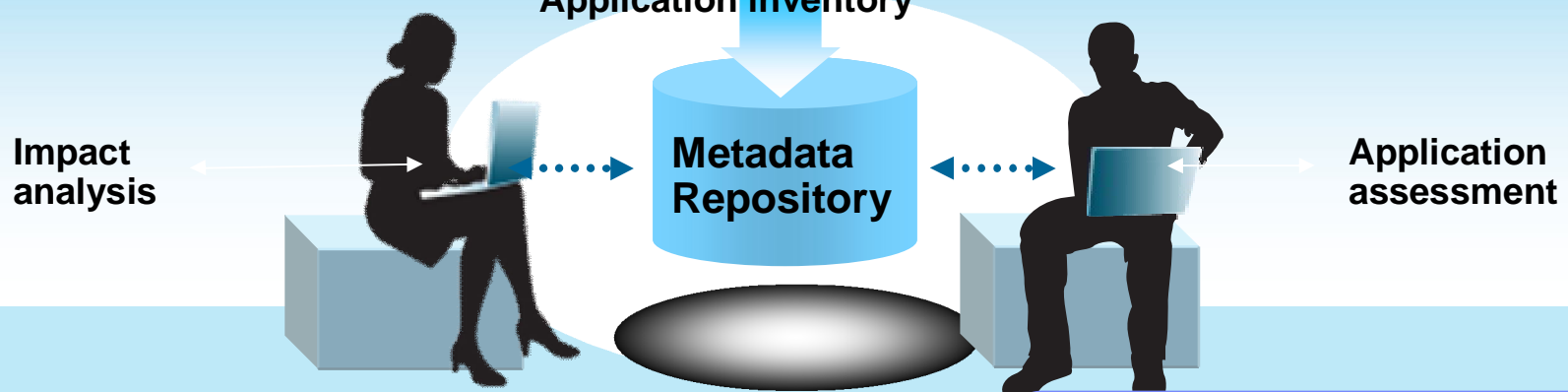
Mainframe

- COBOL
- PL/I
- DB2
- IMS/DC
- CICS
- Job Control Language
- High-level Assembler (HLASM)

Distributed

- Java
- WebSphere
- HTML
- WSDL
- Enterprise Archive (EAR)
- Web Archive (WAR)
- C++

Application inventory



Rational Asset Analyzer

Delivering...

Reduced risk by quickly determining the full impact of proposed changes and lowered costs via dead code elimination, optimal planning, focused testing and faster development

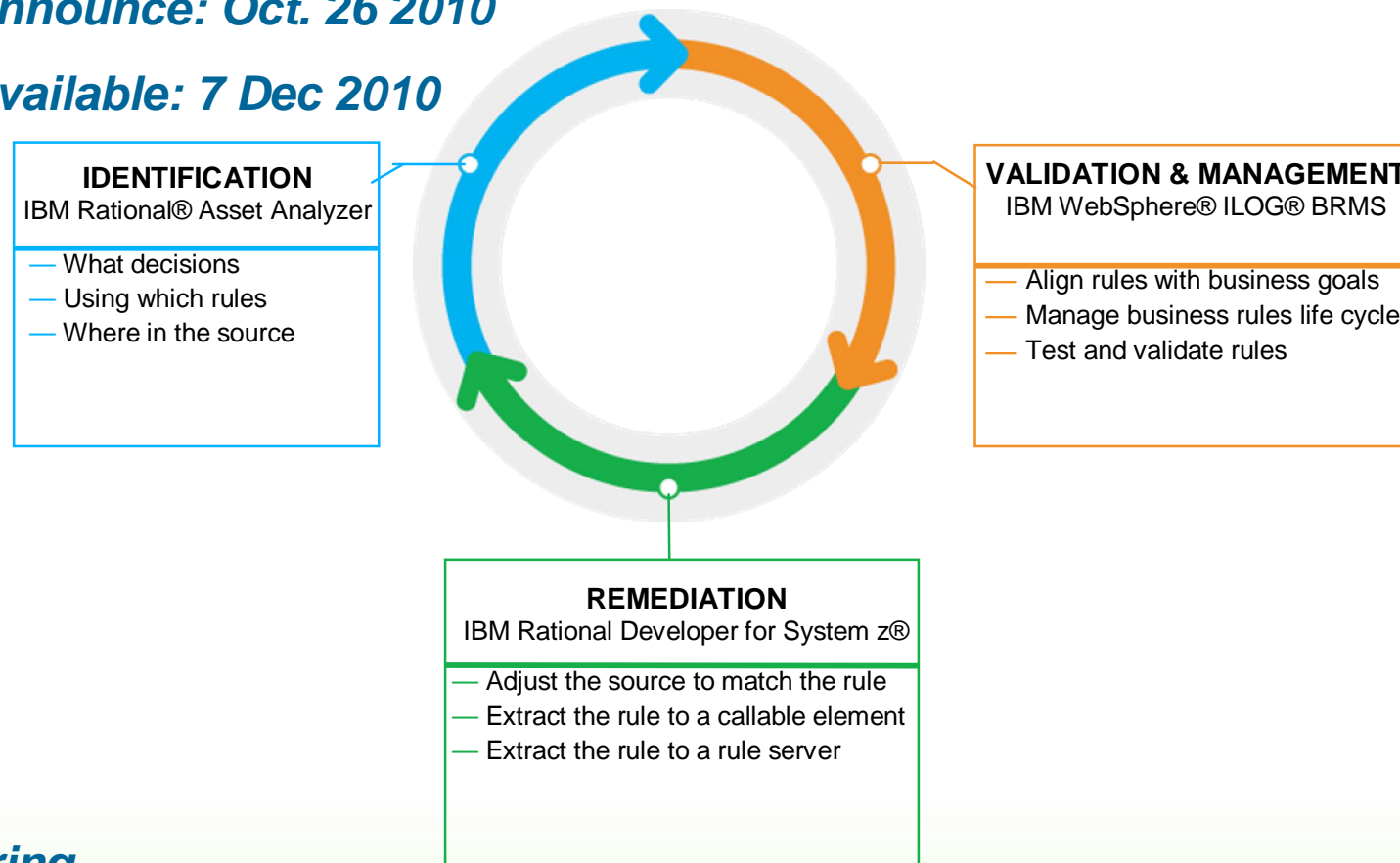
Announcing: Rational Asset Analyzer v6.0

Now integrates with WebSphere ILOG Business Rule Management System
Business rule modernization



Announce: Oct. 26 2010

Available: 7 Dec 2010

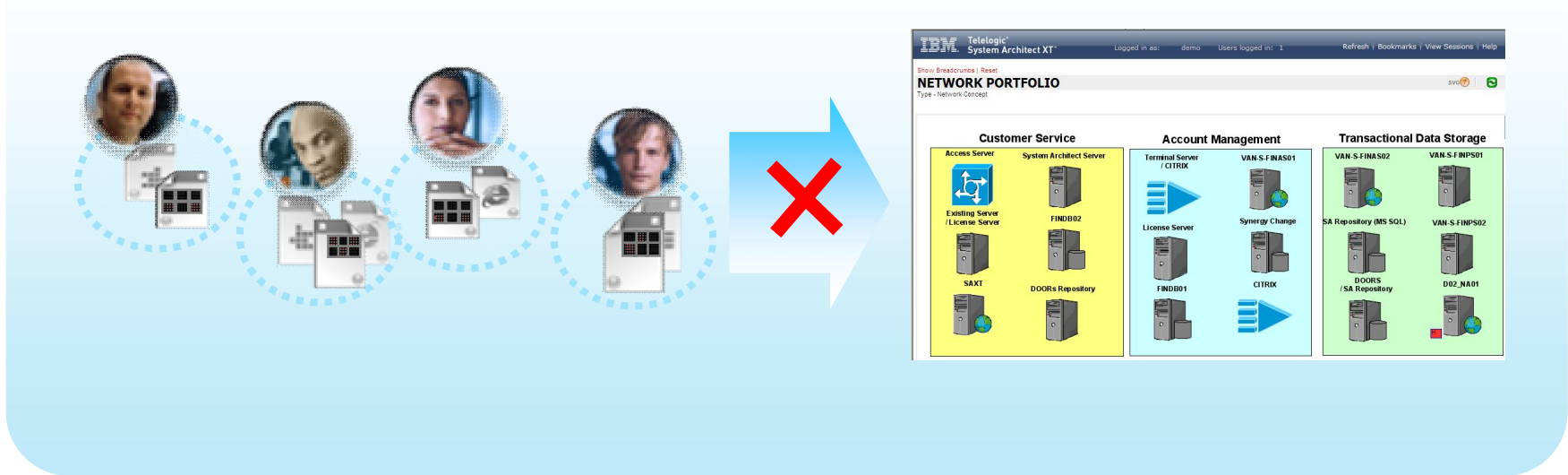


Delivering...

The essentials for business rule mining of existing software assets enhancing the ability to capture, maintain and take advantage of application knowledge that can provide insight into an application's structure and its interactions with business data.

Enterprises want to...

Better align IT activities and investments with their business goals and objectives

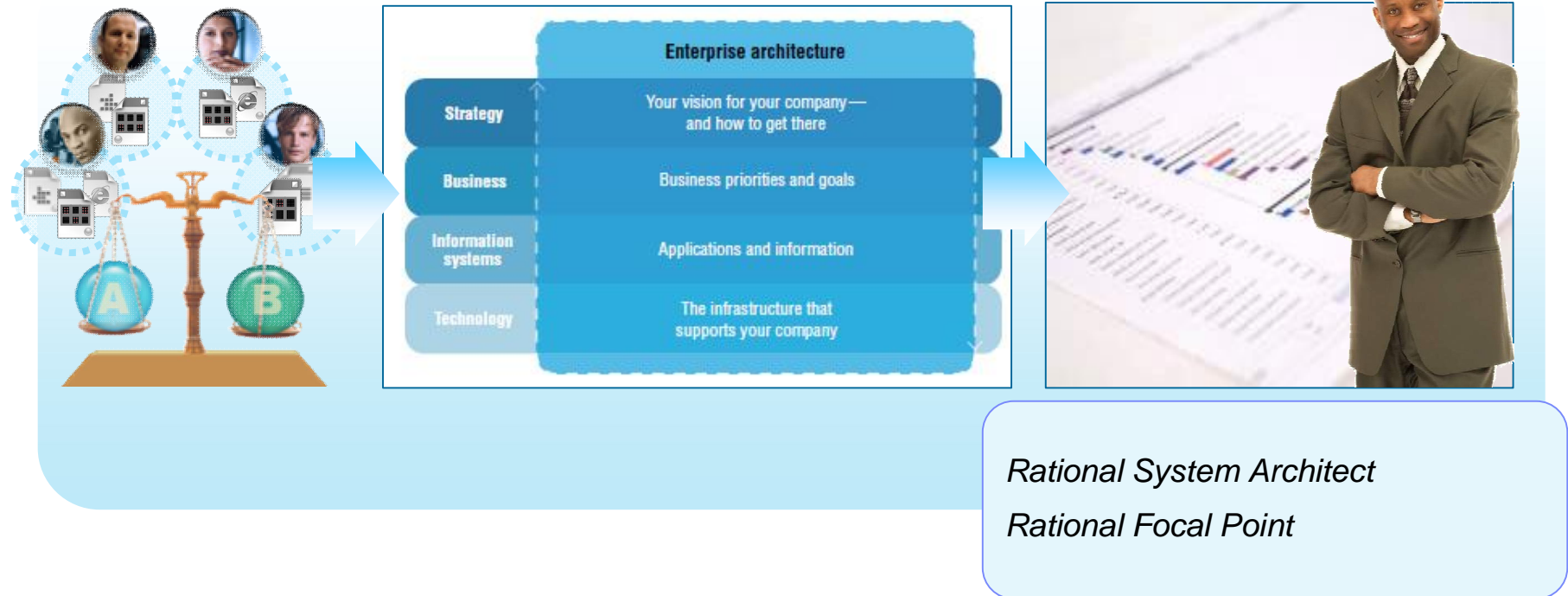


But...

They do not have a tool or process for capturing business goals or prioritizing projects, nor for linking them to the associated IT efforts. They rely instead upon less rigorous verbal discussions and difficult-to-maintain documents.

Solution: Enterprise architecture and portfolio management

Make enterprise IT planning actionable and traceable

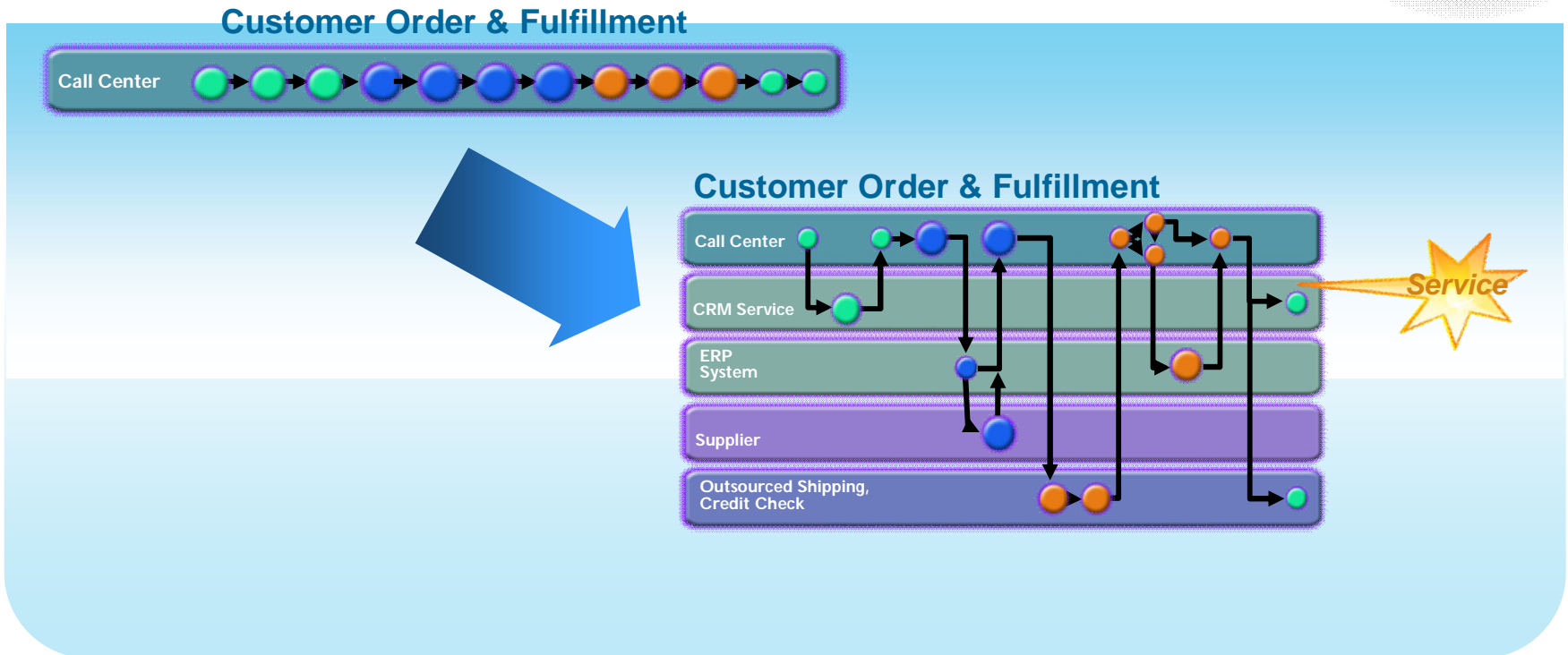


Delivering...

Understanding of current application infrastructure, prioritization of cost-cutting and consolidation candidates, impact analysis of portfolio decisions, and central oversight of architecture, risks, demands, and investment management

Enterprises want to...

Have a nimble IT organization that leverages SOA to respond more quickly to the needs of the business

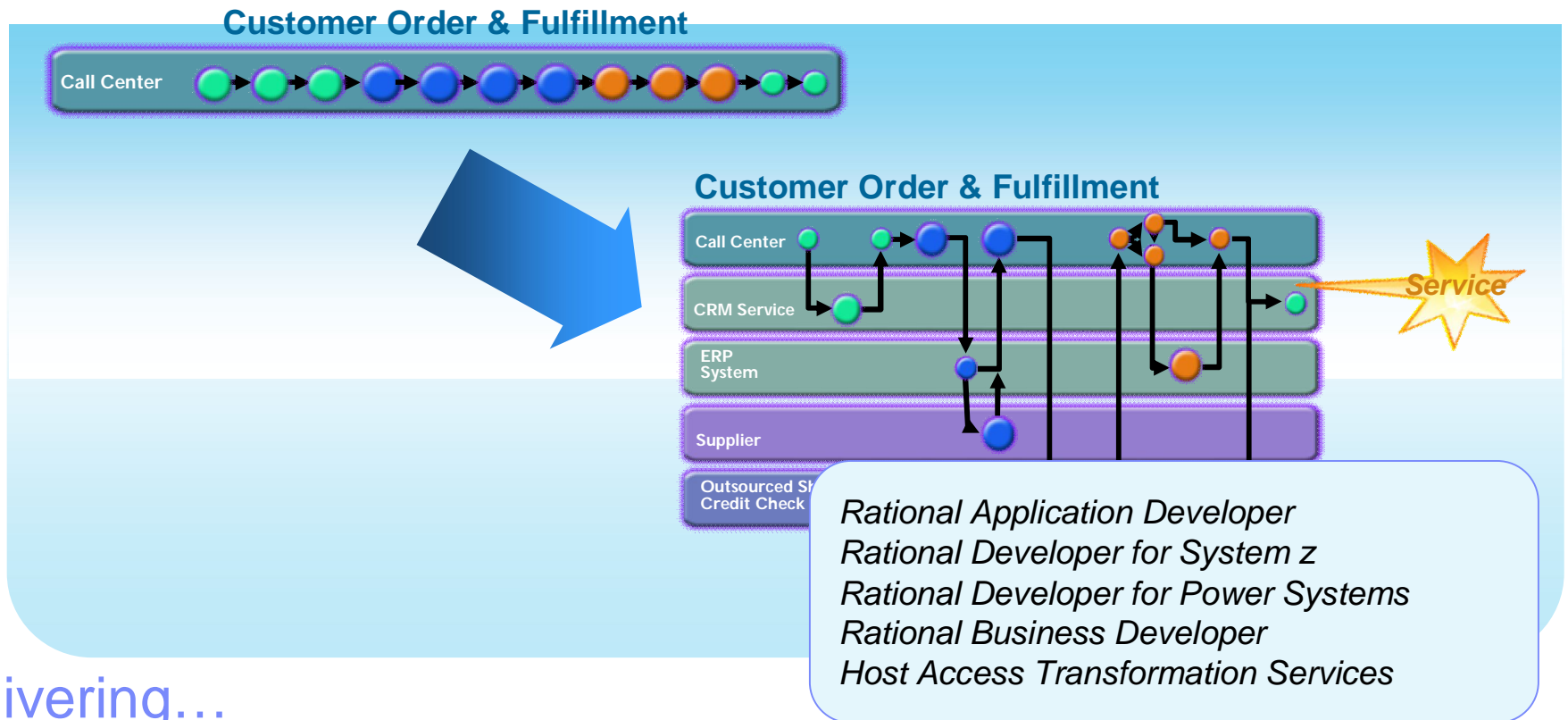


But...

They have application architectures that were built incrementally over the last 20-30 years and are no longer flexible or agile.

Solution: SOA tools for all platforms and languages

Use powerful tools to quickly begin SOA evolution by harvesting and repurposing proven assets

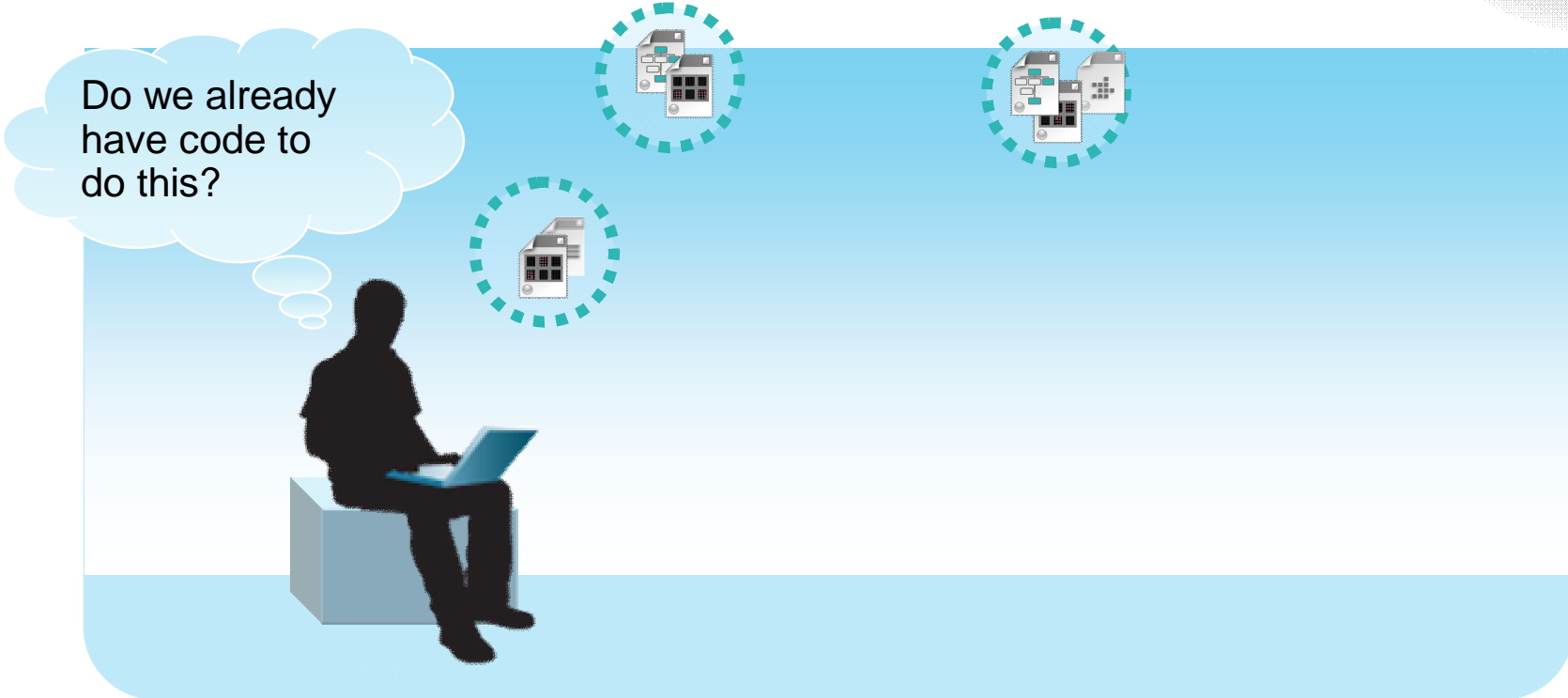


Delivering...

5x lower costs and reduced risk through reuse of existing assets, higher productivity, and platform portability of new services

Enterprises want to...

Reuse existing assets to reduce duplication and speed time to market

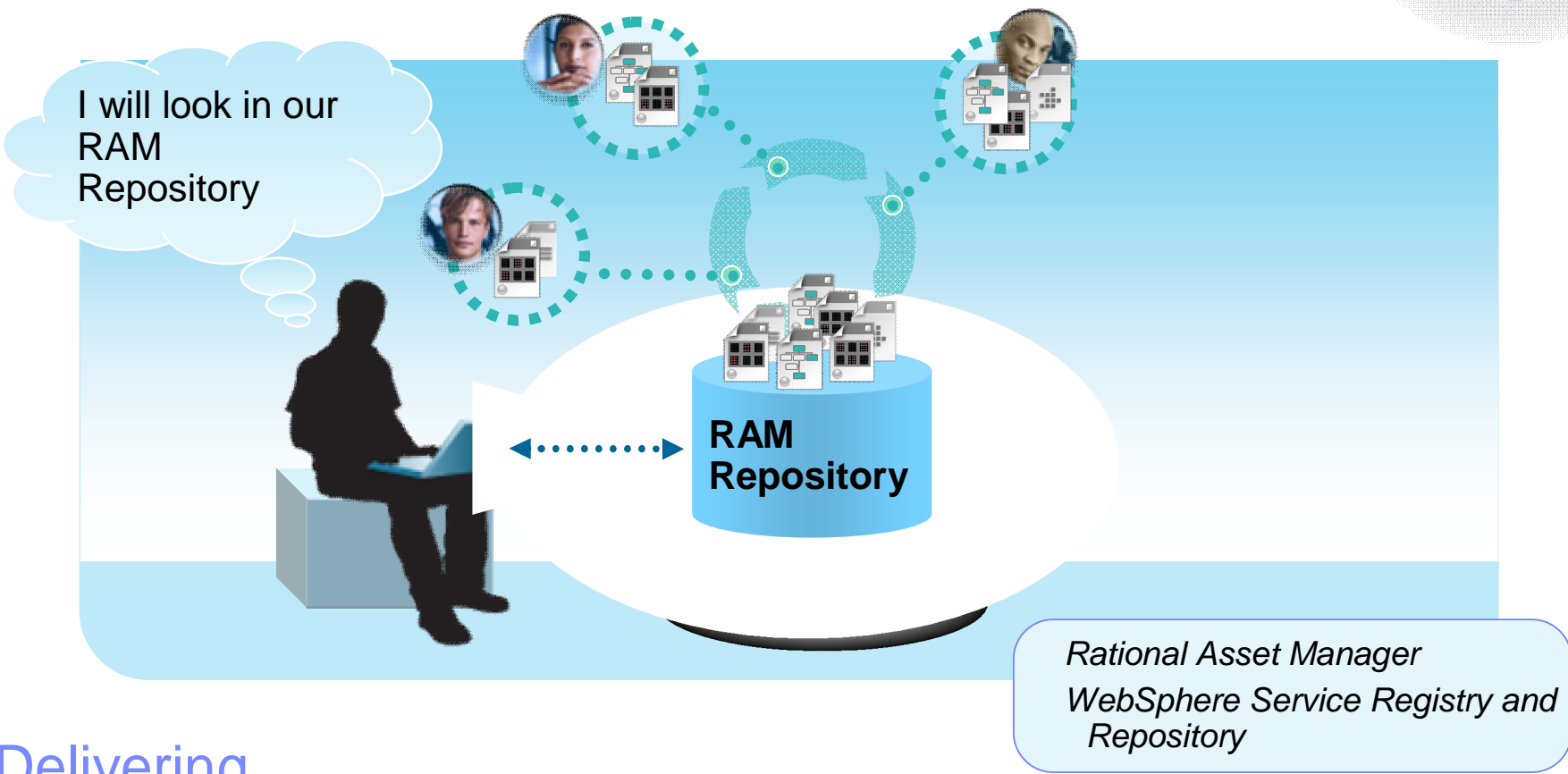


But...

They do not have the infrastructure to establish a reuse culture

Solution: Operational reuse

Instill proactive asset management of all IT artifacts into the organization's processes and culture by deploying a reuse infrastructure



Delivering...

Greater reuse, development efficiency, faster time-to-market, and higher quality

Enterprises want to...

Provide a range of appealing, more intuitive user interfaces to increase employee productivity and boost customer satisfaction



But...

The cost of replacing or re-writing these applications is prohibitive, and they may not have the necessary web and UI technology skills

Solution: User interface modernization

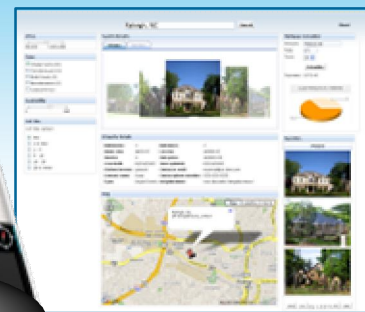
Deploy the ideal UI for your application, from quickly creating a modern Web UI out of an existing green screen application to customizing a highly interactive, graphical Web 2.0 UI



```
Session A - [24 x 60]
File Edit View Communication Actions Window Help
Client Inquiry - calls LAB3POT (LAB3BMS)

Customer number: 004
Last name: Silva
First: Lula da
Address: Palacio do Planalto
City: Brasilia
State: DF
Country: BRAZI

Type customer Number Between 1 and 10 or 99 to END
Customer retrieved successfully
```



- Rational EGL*
- Host Access Transformation Services*
- Rational Developer for System z*
- Rational Developer for Power Systems*
- Rational Business Developer*
- Rational Application Developer*



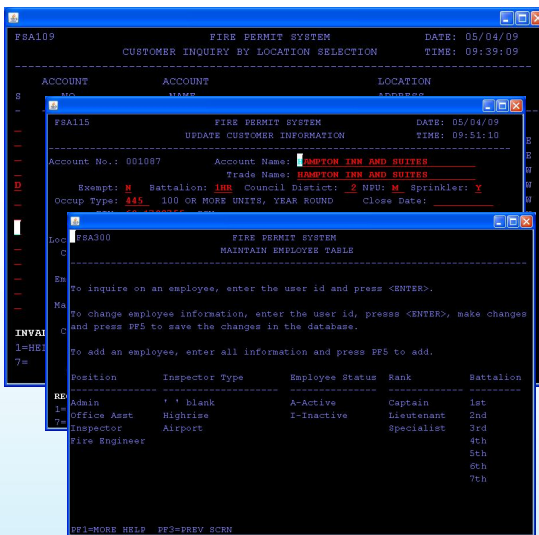
Delivering...

Greater customer satisfaction, lower employee training costs, and fewer errors from more modern and compelling UIs

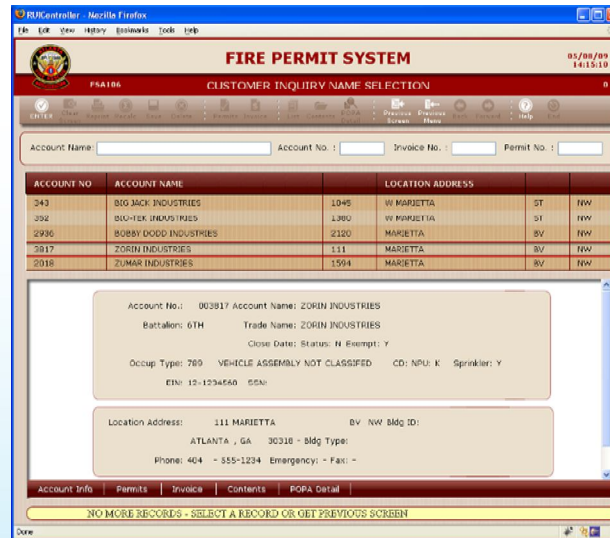
UI Modernization with RME for Rich UI



Original Screens



Standard Transformation



Enhanced Transformation



- ✓ One to one screen to EGL RUI
- ✓ UI patterns mapping (list, detail, headers, message, etc)

- ✓ Combined UIs, improved flow, resizable panels, etc
- ✓ Combo boxes, radio buttons, date pickers, tabs, etc
- ✓ Mash-ups and integration with other systems

Enterprises want to...

Reduce tool support costs and move to modern platforms, languages, and tools for their multi-platform application development



Software AG Natural/Adabas
CA Ideal/Datacom and CoolGen
RPG and COBOL
Green screen text UIs



- System z – CICS
- System z – IMS
- System z – Linux*
- System z – Batch
- System z – WAS*
- System z – VSE
- IBM i - WAS
- IBM i - Native
- AIX
- HP - UX
- Solaris
- Linux
- Windows

*Eligible to run on IFL and zAAP

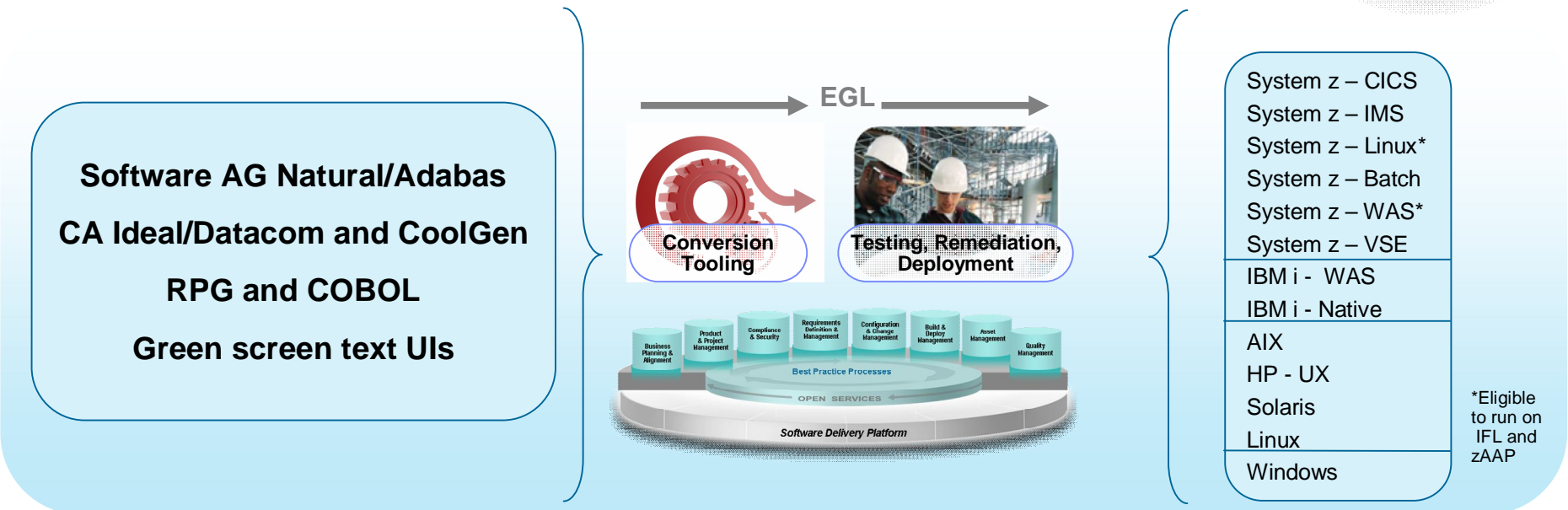
But...

They are stuck on poorly supported, expensive, legacy development platforms



Solution: Application transformation tools and services

Migrate from older languages and expensive tools to modern development platforms, languages, databases and tools

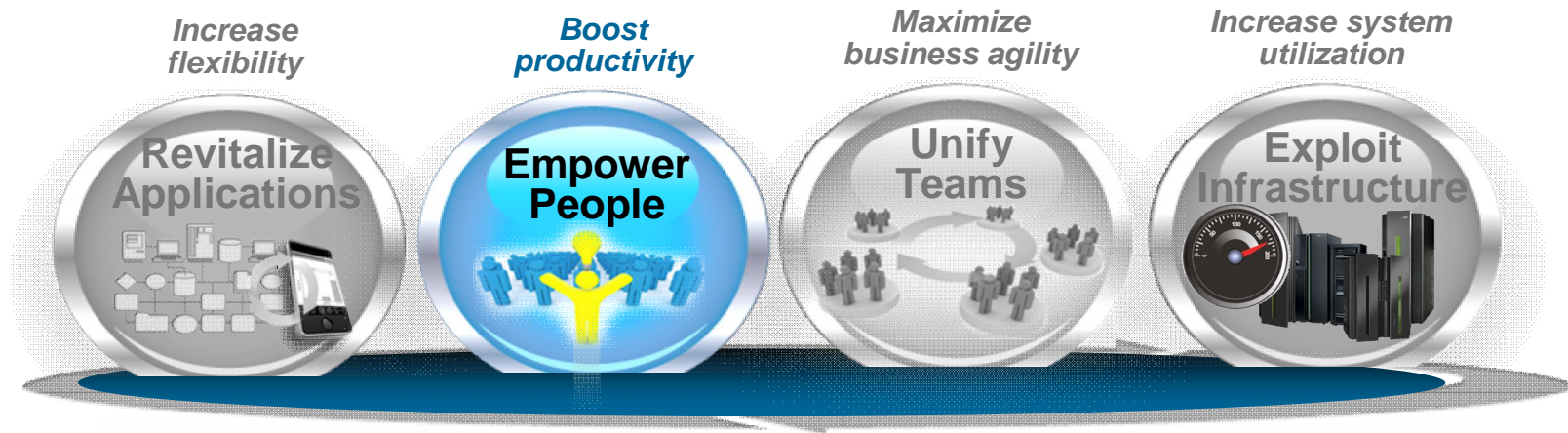


Delivering...

Greatly reduced development platform support costs, and more flexible, integrated development environment for making future application enhancements

Rational Migration Extension for Natural
Rational Migration Extension for CA
Rational Migration Extension for Rich UI
Rational Migration Extension for IBM i

Boost productivity and accelerate innovation with modern skills



Modern IDEs for all platforms and languages

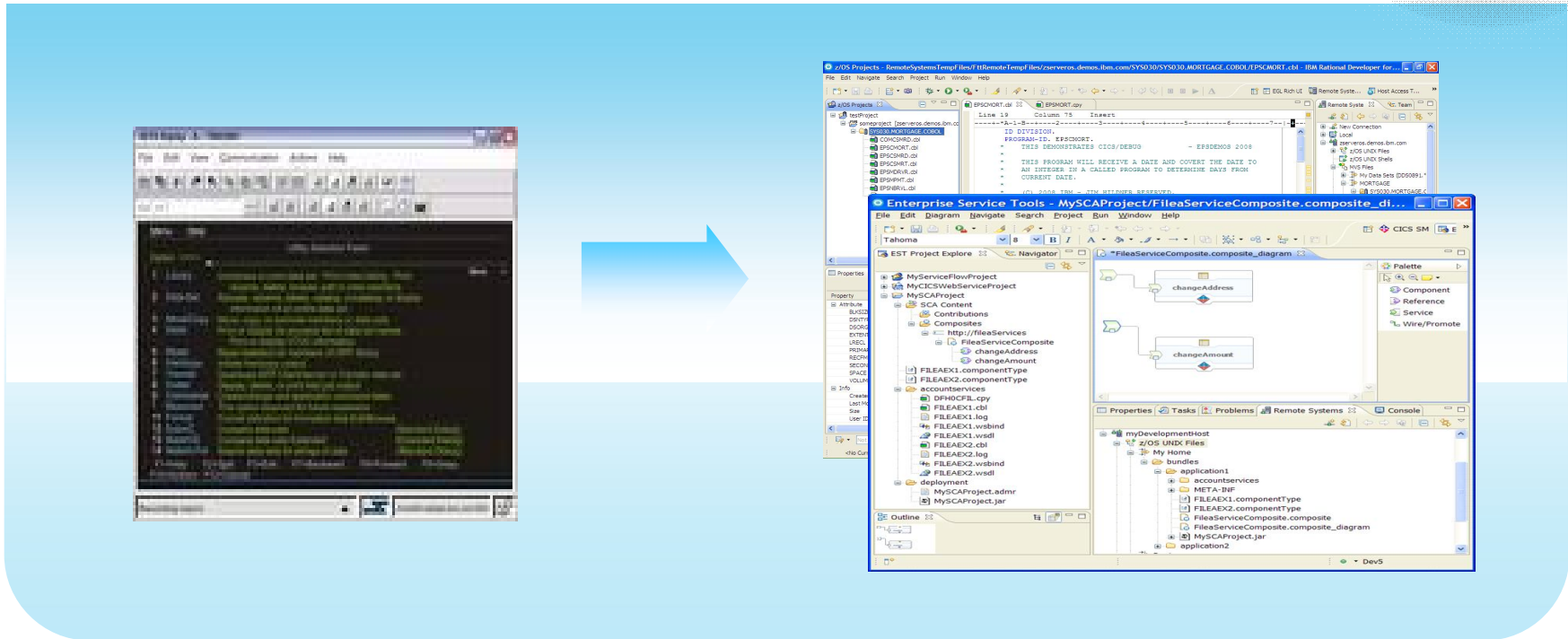
Modern business language

Enterprise training programs, communities and resources

Rational Software Delivery Platform powered by *Jazz*

Enterprises want to...

*Increase productivity of their “backend” development staff,
as well as attract new employees to this work*



But...

*They have antiquated development tools which deliver low productivity
and are repulsive to younger staff*



Solution: Comprehensive, multi-platform IDEs

Upgrade to modern Eclipse-based tools to develop and maintain enterprise applications spanning multiple platforms, languages, and technologies

The screenshot displays the IBM Rational Developer for System z IDE interface. It features a multi-pane environment with a Project Explorer on the left showing a project structure including 'MyServiceFlowProject', 'MyCICSWebServiceProject', and 'MySCAProject'. The central pane shows a UML Composite Diagram for 'FileServiceComposite' with components like 'changeAddress' and 'changeAmount'. The right pane shows the Properties view for the selected component. The bottom pane shows the Outline view.

- Rational Developer for System z*
- Rational Developer for Power Systems* **NEW!**
- Rational Application Developer*
- Rational Business Developer*

Delivering...

22%-37% improvement in developer productivity¹, modern tools with which to attract new talent, and 50%-80%¹ reduction in host CPU usage with workstation syntax checking

¹ Aggregation of results from a productivity study conducted by IBM System z customers

The original System z development environment

ISPF has provided consistent tooling for decades...but it is limiting



Challenges...

- Constant connection to mainframe is required
- Development shares processor with production use; gets lower priority
- Inability to create cross-platform components
- ISPF green screen UI is unappealing to new hires
- MIPS used for development vs. production

Today's mainframe development environment with a modern IDE (and still some ISPF)



Modern IDEs add value

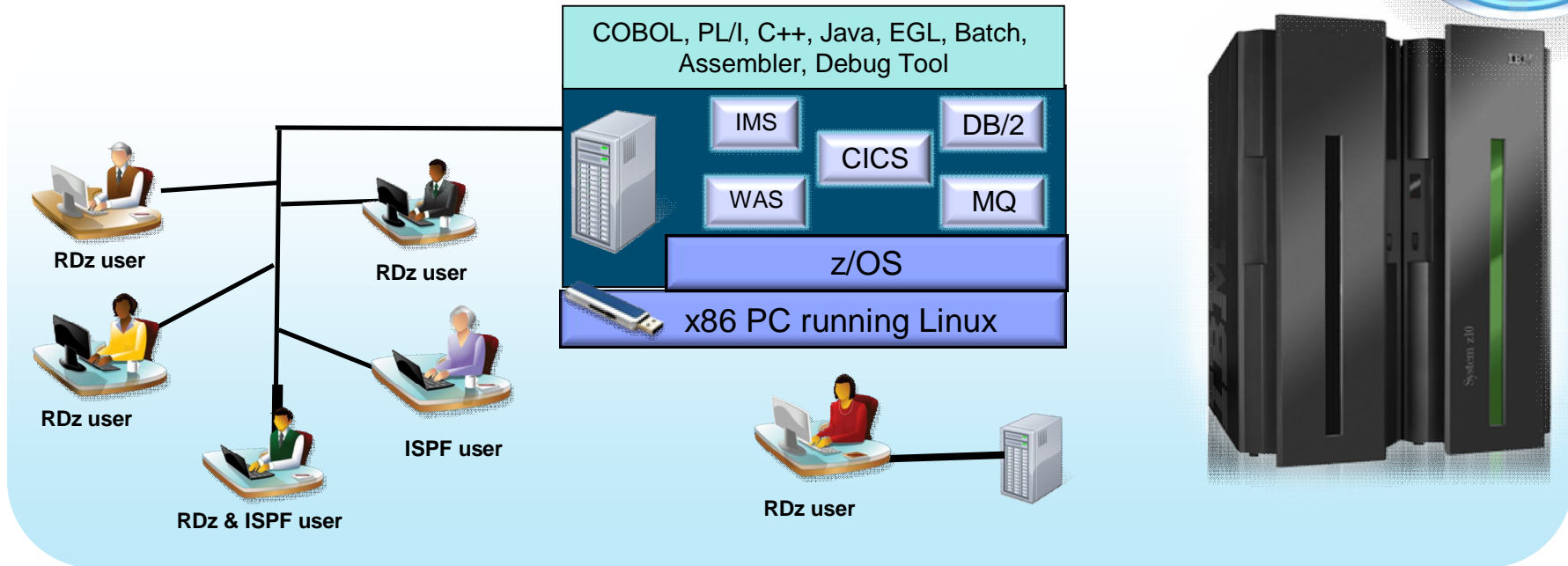
- Higher productivity; more attractive for new developers
- Ability to offload some development MIPS
- Integration with complete application lifecycle tools

But challenges remain

- Business pressures to reduce development MIPS further
- Test delays caused by dependencies on operations team, thus hurting productivity

Announcing the RDz Unit Test Feature

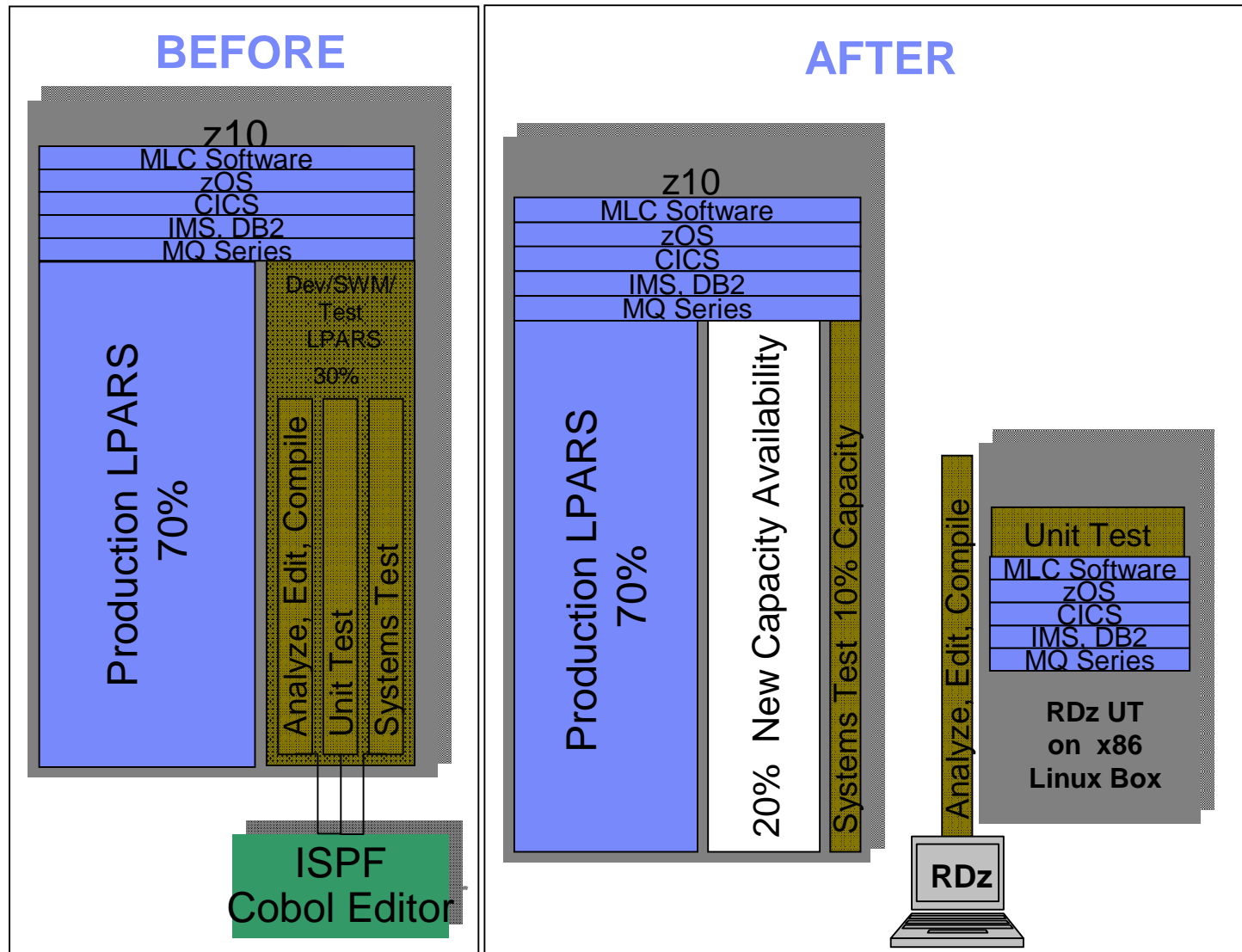
System z environment for testing on x86 Linux systems



- Liberate developers to rapidly prototype new applications^L Develop and test System z applications anywhere, anytime
- Free up mainframe development MIPS for production capacity
- Eliminate costly delays by reducing dependencies on operations staff

Note: This Program is licensed only for development and test of applications that run on IBM z/OS. The Program may not be used to run production workloads of any kind, nor more robust development workloads including without limitation production module builds, pre-production testing, stress testing, or performance testing.

RDz UT & Mainframe Capacity - Before and After

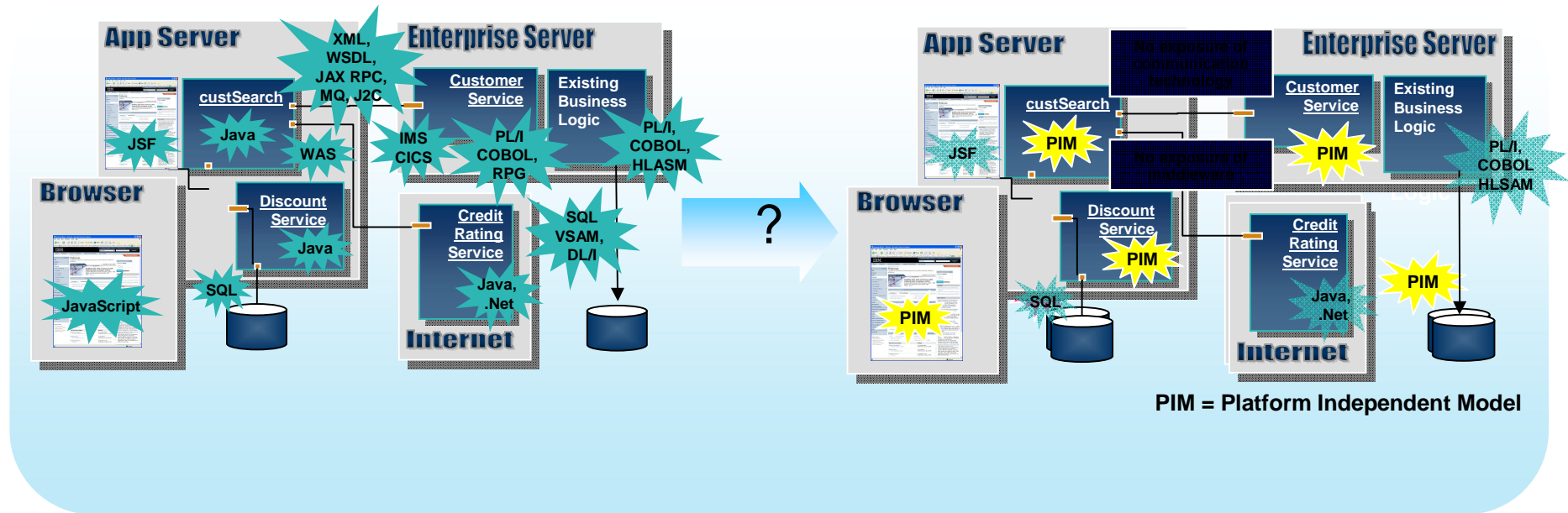


Establishing RDz UT, as in the “AFTER” picture, provides opportunities for savings in the following areas.

- **Newly available capacity can help defer z upgrade -**
By establishing the RDz UT environment Customer can defer upgrade costs related to IBM MLC and One Time Charge upgrades costs from ISV's.
- **Dedicated Available Environment** for continuous Development and Test

Enterprises want to...

Build modern, multi-platform applications with existing and new staff



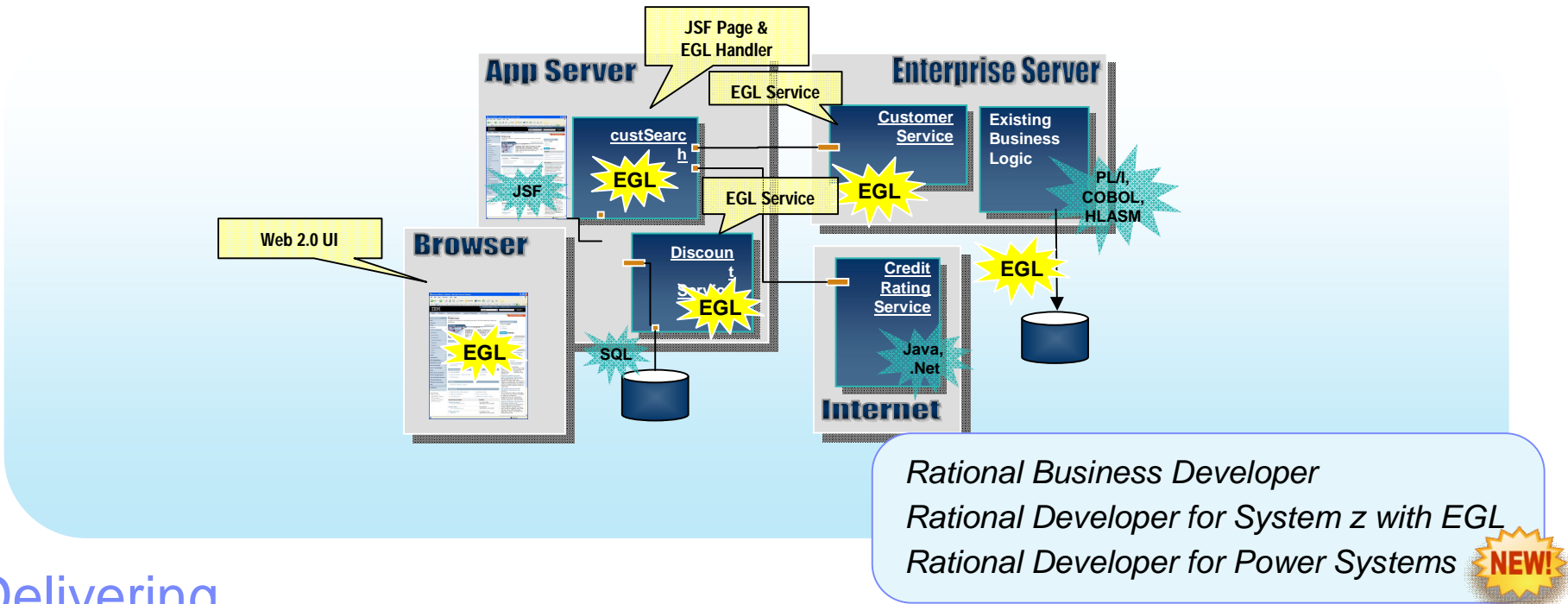
But...

They have different teams of developers for each platform, and re-training them to all the new technologies is costly, time consuming, and often impractical



Solution: EGL – An open, modern business language

Build new or extend existing multi-platform enterprise applications in EGL with its middleware abstractions, high productivity language, modern IDE, and extensible architecture



Delivering. . .

High productivity, platform portability, and skills flexibility, for existing and new developers when building all types of modern enterprise applications

OPEN

Announcing
**Eclipse EGL
Development Tools Project**

An evolution in business application development



CLEAR

BLADE



- Open source project at Eclipse.org for the EGL language, compiler, source editing tools, debugger, and generators for Java and JavaScript
- Initial contribution based on technology in IBM Rational Business Developer
- Core EGL development by IBM and other participants in the open on Eclipse
- Project launched June 7, 2010





Benefits of an open EGL ...

▪ Reduces risk

- Jointly developed in the open at Eclipse.org
- Source available under Eclipse Public License (EPL)

▪ Accelerates innovation

- Gives others (not just IBM) the ability to ...
 - Build tools that compliment the tools provided by IBM
 - Extend deployment to new runtime platforms
 - Add language extensions to support new concepts

▪ Broadens awareness and community

- Opens EGL to new audiences
- Gives others the opportunity to be involved in the planning and development process



Tools and solutions from IBM

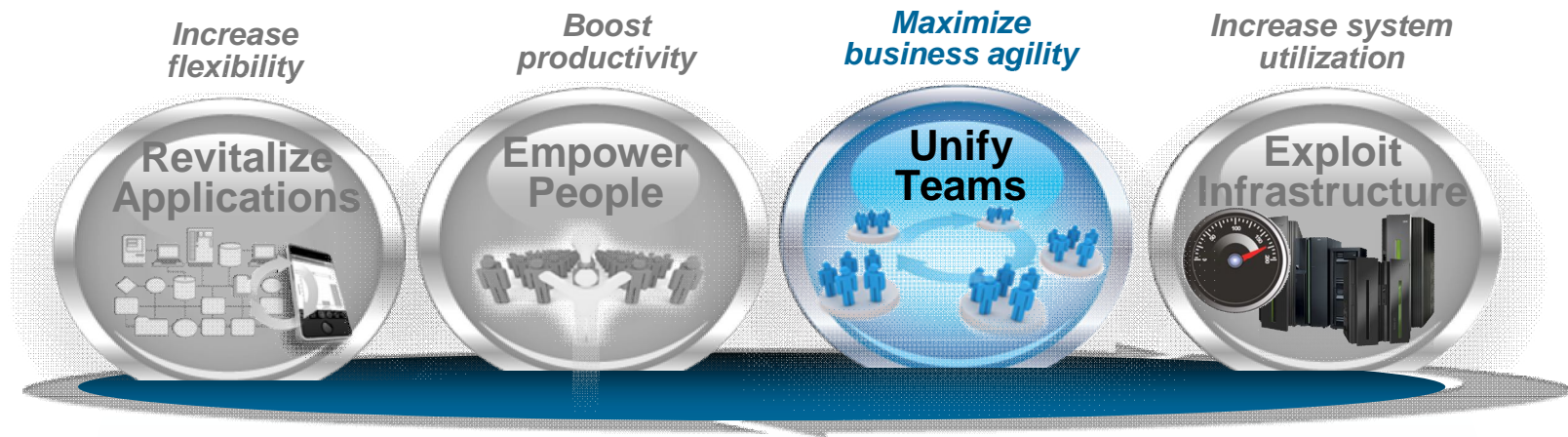
- Rational Business Developer
- Rational Developer for z with EGL
- Rational Developer for i for SOA
- Rational Migration Extensions

IBM tools provide support for WebSphere Application Server, development of EGL JSF and TUI applications, generation of COBOL, and more ...

Read the project proposal:

www.eclipse.org/proposals/egl


Maximize organizational agility by unifying development teams



Consolidated team infrastructure

Agile team infrastructure

Rational Software Delivery Platform powered by *Jazz*



Given the rise of distributed teams and the pace of technology change, managing software development cycles has never been more difficult

What we're

hearing

"2/3 of our projects span multiple business units"

"Our architecture needs to be significantly more scalable and flexible"

"We' have a process but our tools don't enforce it. It's not serving it's purpose."

"On time delivery of software is paramount as it is a risk to our business profitability.?"

"We have to go where the best talent is, but we have IP and compliance realities"

What we're seeing...

- **Increasingly diverse and cross organizational project teams with multiple product architectures**
- **Interest in managing software as an asset using flexible software delivery models**
- **Software becoming more critical to the operation and on-time delivery of new products**
- **Open, customizable, framework enabling new business models**

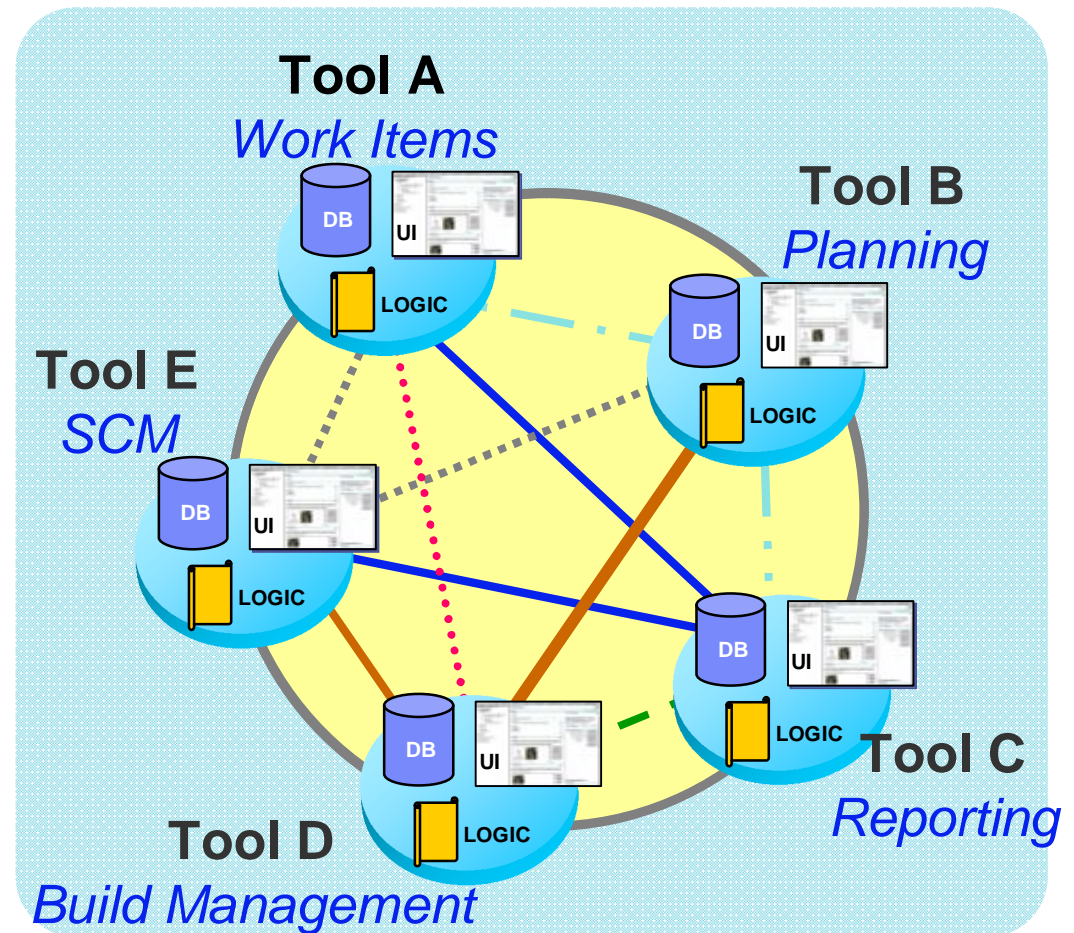
Our customers have invested in a diverse set of ALM tools...

- **Traditionally, each tool came with its own**

- UI - Web and desktop presentations of views and tasks
- Logic – Workflow, process, search, query, scale, security and collaboration
- Storage – Availability, traceability
- Privacy, backup/archive

- **Resulting in...**

- Brittle integrations
- Silos everywhere
- High cost to maintain and administer
- Proprietary API's



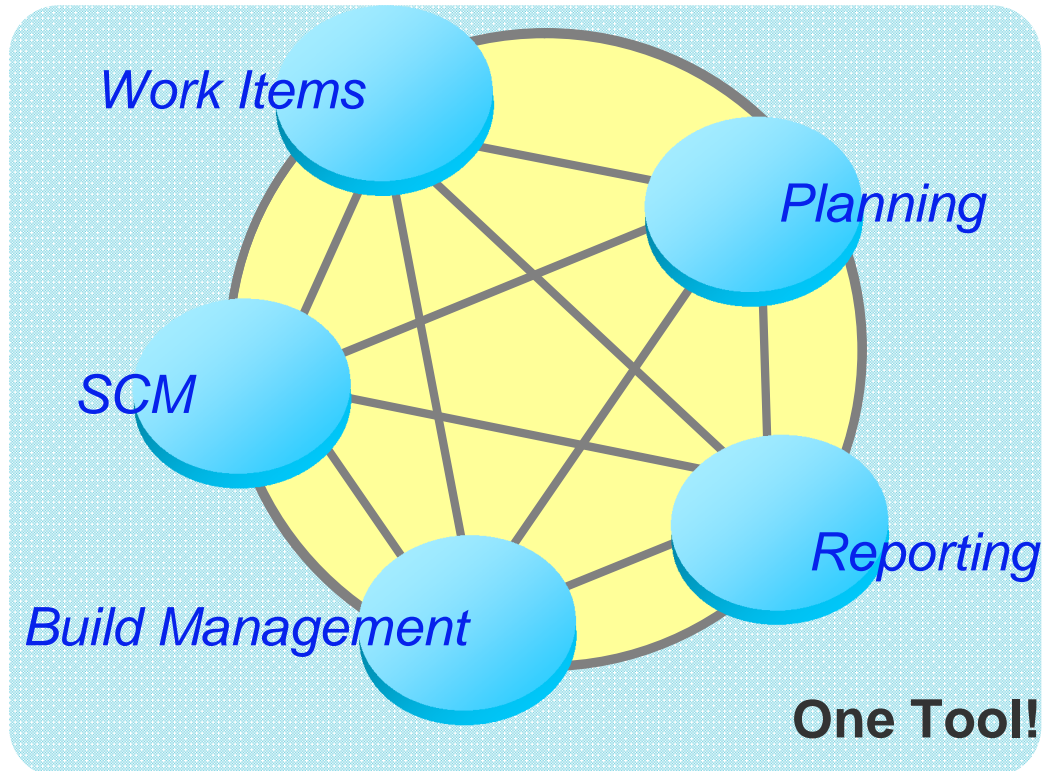
How do you solve this?

With Rational Team Concert, you get...

A unified client



- **Unified Work Items, Agile Planning, SCM, Build Mgmt, Reporting**
- **Single UI, storage and process**
- **Reduces Cost of Ownership**
 - Administrative costs
 - Training/Adoption
 - Customizations

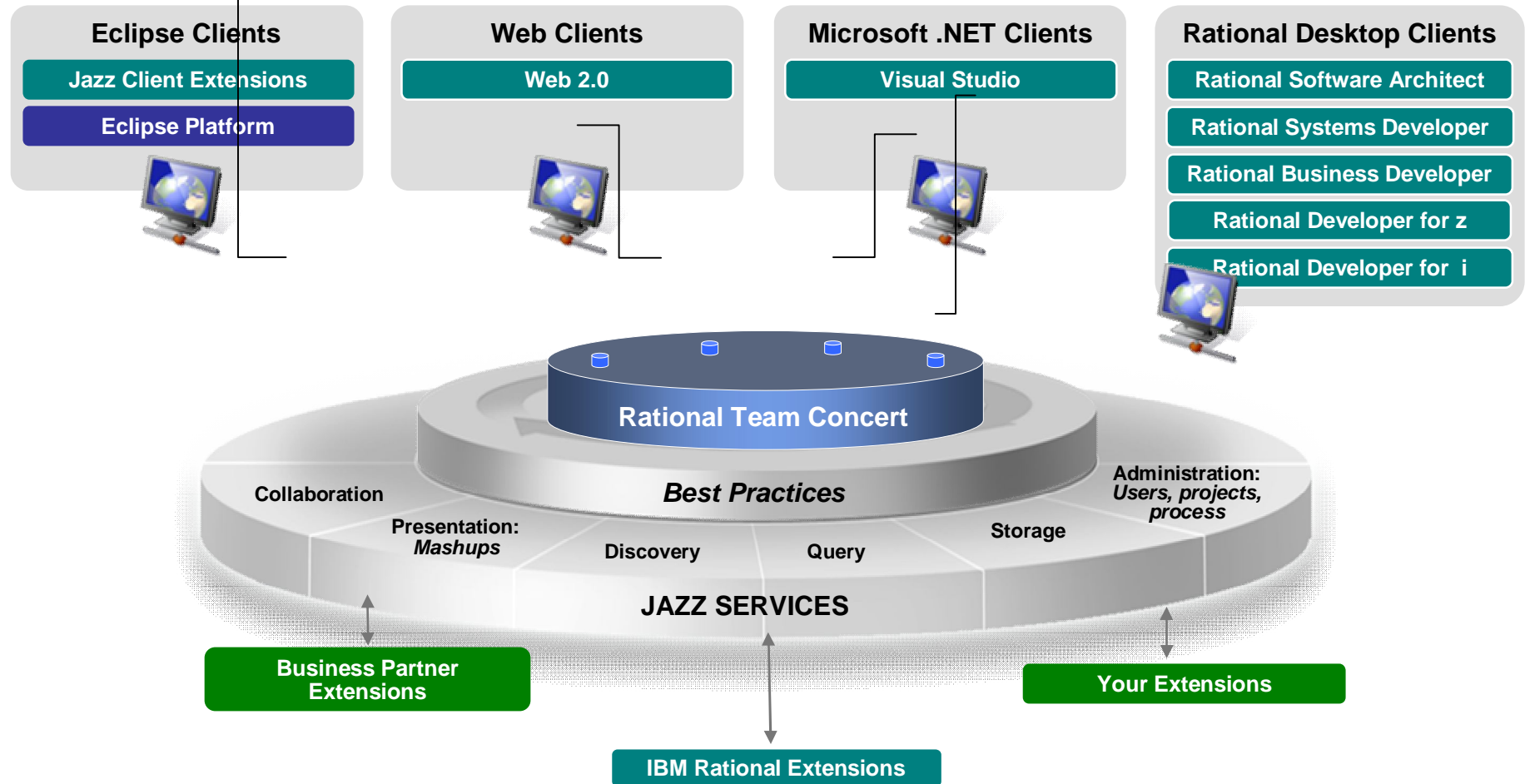


With unified storage

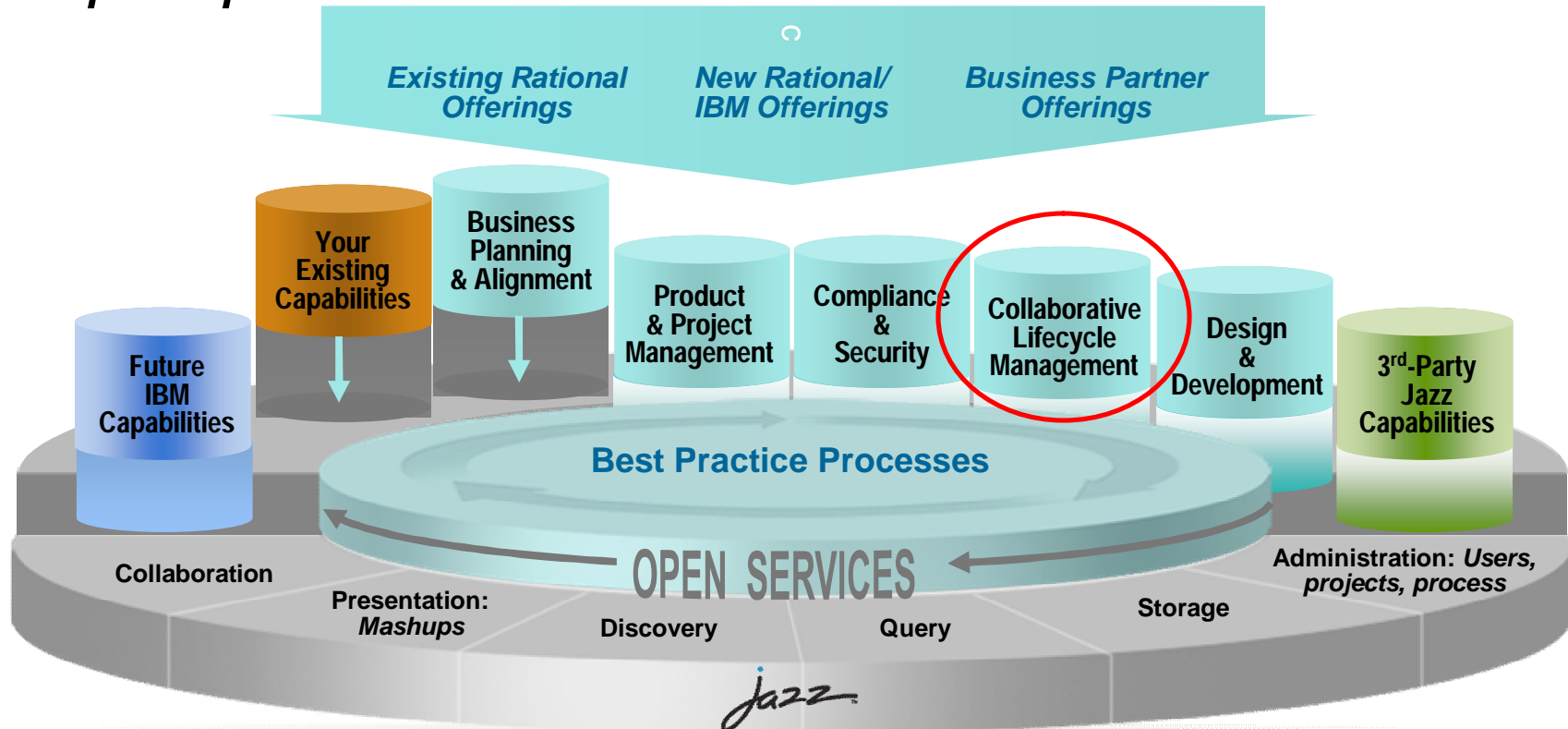


Rational Team Concert: An open, extensible architecture

Supporting a broad range of desktop clients, IDE's and languages



Rational Team Concert is based on Jazz *an open platform with a shared set of services*

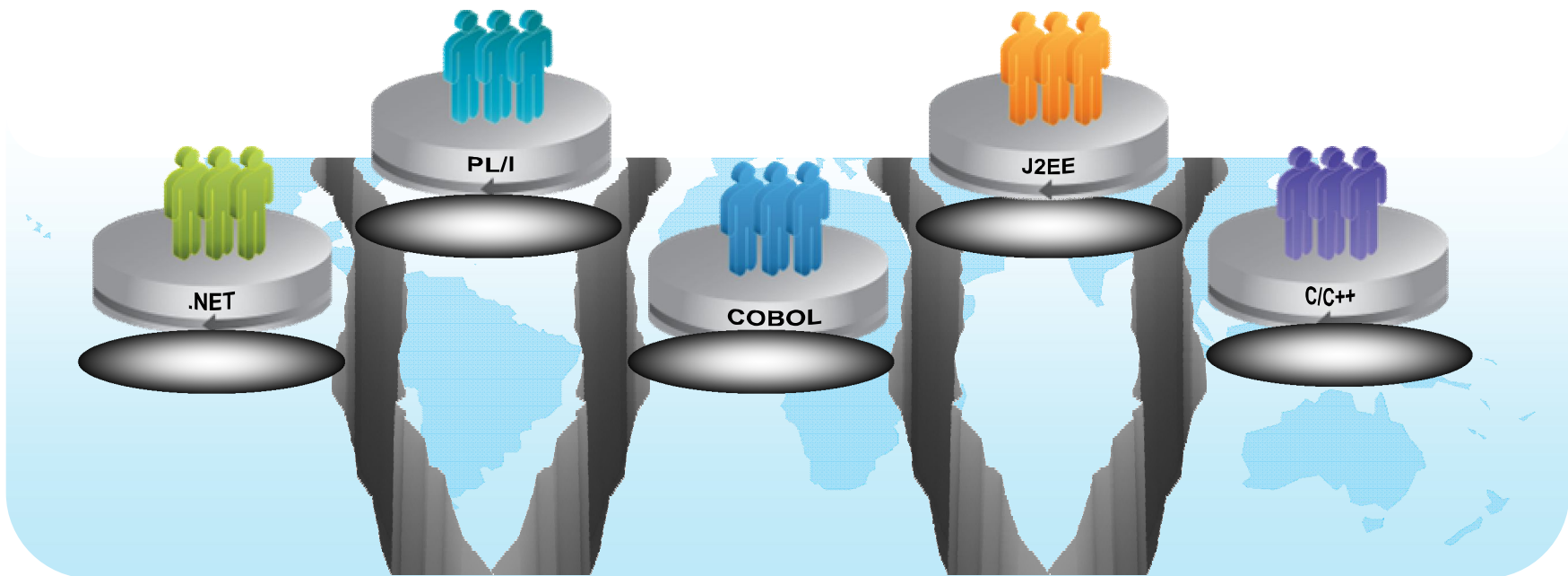


Jazz is...

- A scalable, extensible team collaboration platform
- A community at Jazz.net, where you can see Jazz-based products being built
- An integration architecture, enabling mashups and non-Jazz based products to participate

Enterprises want to...

Enable agile, multi-platform and cross-geo collaboration and governance while reducing their team infrastructure costs

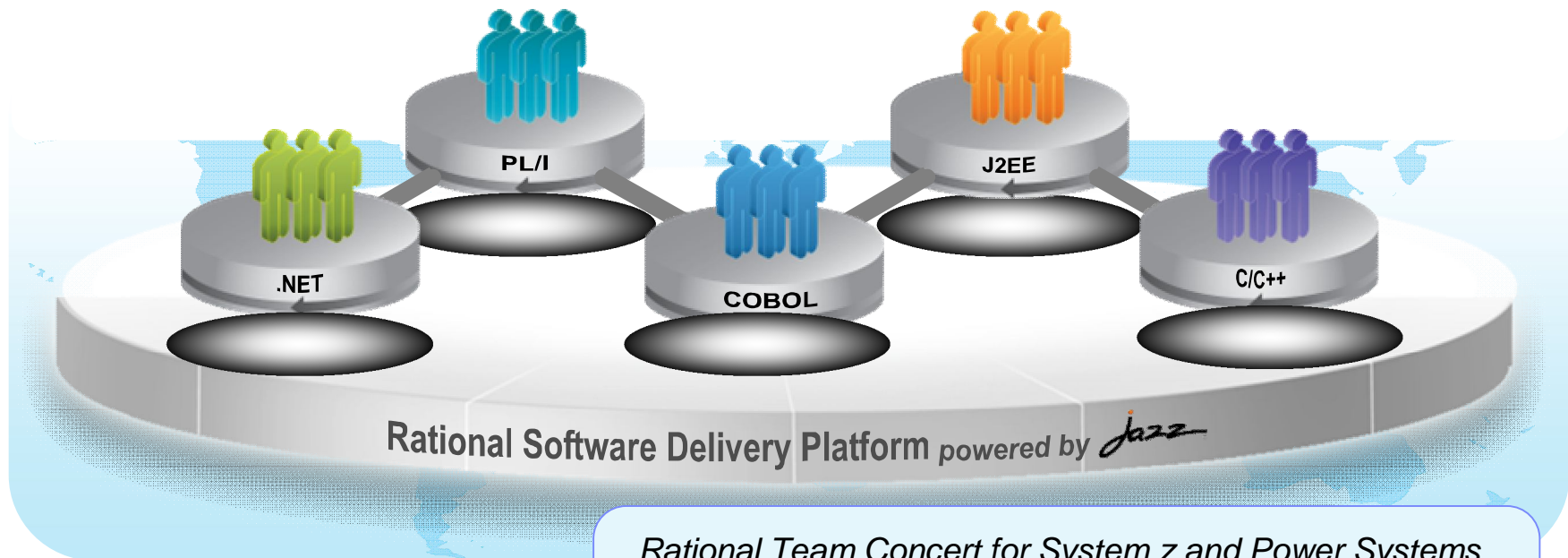


But...

They have “islands” of development, each with different tools, processes and team infrastructure, and they do not support real-time collaboration or integrated, comprehensive oversight

Solution: Collaborative application lifecycle management

Deploy new, common team infrastructure for source control, change management and build that empowers your team with integrated collaboration, process automation, and reporting

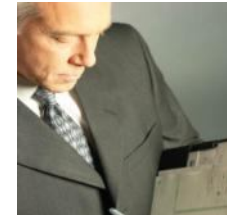


*Rational Team Concert for System z and Power Systems
Rational ClearCase / Rational ClearQuest
Rational Buildforge*

Delivering...

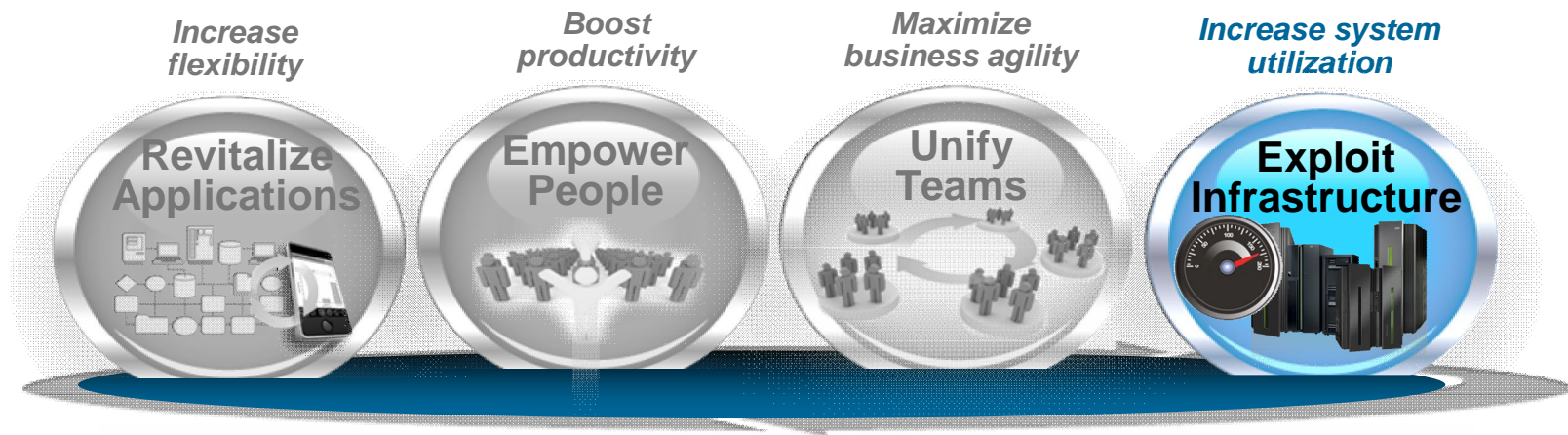
Improved communication, higher quality, informed decision-making, and more automated, transparent and predictable software development

Traceability answers the commonly asked questions...



Analysts	Developers	CM / Build Team	Test / QA Team	Project Manager
<p>Which requirements are addressed in this iteration?</p> <p><i>Are all of the requirements tested?</i></p> <p>What's the quality of the high priority requirements?</p> <p>What defects are reported against which requirements?</p>	<p>What requirements am I implementing?</p> <p><i>What test uncovered this defect, on which environment and what build?</i></p> <p>What changes occurred overnight?</p> <p><i>How can I recreate the last version to do a patch?</i></p>	<p>How can I standardize when teams use different tools?</p> <p>Where are the bottlenecks in our processes?</p> <p>How can I speed up my builds?</p> <p>Are build times getting longer or shorter?</p>	<p>What is the quality of the build?</p> <p><i>What has changed that I need to test?</i></p> <p>What automated tests have been run & with what result?</p> <p>What defects have been addressed since the last build?</p>	<p>Are we ready to release?</p> <p>What tradeoffs can we make to release on time?</p> <p>How far along is a specific fix in the development cycle?</p> <p><i>Can we pass an audit?</i></p> <p>What defects were resolved in this release?</p>

Improve application performance by fully exploiting modern hardware

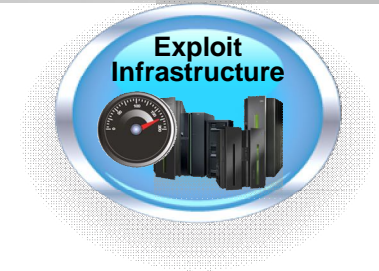


Exploit new advanced optimization technology in C/C++, Java, COBOL, PL/I and Fortran compilers

Rational Software Delivery Platform *powered by jazz*

Enterprises want to...

*Maximize application performance on existing hardware
to reduce capital expenses*

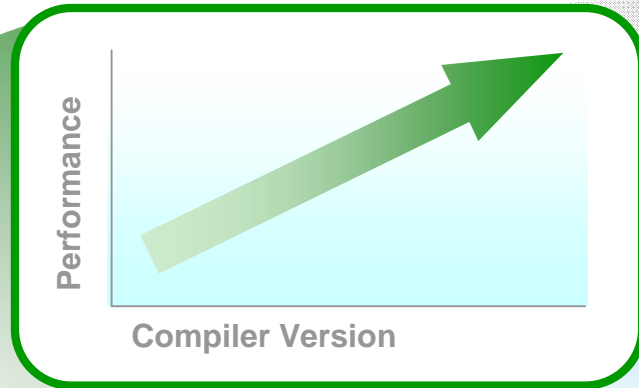


But...

They have back-level compilers or are not fully using optimization

Solution: Advanced compiler technology

Exploit new advanced optimization technology in C/C++, Java, COBOL, PL/I and Fortran compilers



**Same hardware + *NEW* compiler
= Increased Performance**

***NEW* hardware + *NEW* compiler
= Maximum Performance**

- IBM XL C/C++ for AIX and Linux
- IBM XL Fortran for AIX and Linux
- IBM COBOL for z/OS, AIX
- IBM PL/I for z/OS, AIX
- IBM WebSphere® Development Studio (IBM i compilers)

Delivering...

*Lower capital outlays by increasing capacity,
and improved performance of application suite*



Customers are adopting Rational solutions for Enterprise Modernization

**Improved productivity
by 15%**

**UniCredit modernizes
mainframe development
and testing with IBM
Rational Developer for
System z software**

*More than 200 developers at
HVB IS began using IBM
Rational Developer for
System z software to
develop mainframe
applications for IBM System
z servers.*

**Increased
developer productivity
by 15%**

**Wipro and its customer
chose IBM Rational
Business Developer and
EGL technology to
transform the application**

*The new system accesses the
customer's existing IBM DB2
information management
system running on an IBM
System i platform, and now
includes IBM WebSphere
Application Server software to
support a modern, three-tier
architecture.*

**Reduced
development time by
15-20%**

**SoforTe improves
productivity for developers
and customers with IBM
Rational software on System
z and Rational Team Concert
for System z**

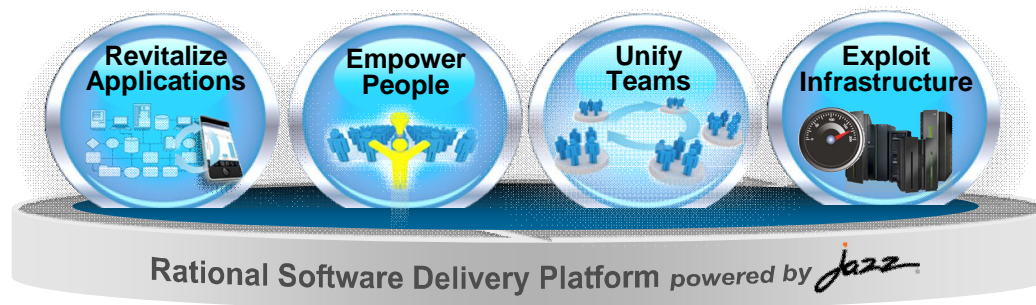
*SoforTe chose to implement
RDz and RTCz on an IBM
System z10 Business Class
server running z/OS and clients
running Microsoft® Windows®
clients to provide a modern
powerful development
environment for its customers.*

IBM Rational Enterprise Modernization key announcements

Continuing the evolution to optimize System z software development

NEW!

- Rational Migration Extensions for RUI and CA
- Rational Developer for System z Unit Test Feature
- EGL open source on eclipse.org
- Rational Team Concert for System z beta



To learn more visit: ibm.com/software/rational/modernization/



Learn more at:

- [IBM Rational software](#)
- [Rational launch announcements](#)
- [Rational Software Delivery Platform](#)
- [Accelerate change & delivery](#)
- [Deliver enduring quality](#)
- [Enable enterprise modernization](#)
- [Ensure Web security & compliance](#)
- [Improve project success](#)
- [Manage architecture](#)
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How to get started?



Sandboxes for SOA, System z and Power

- ✓ Try IBM's latest software for SOA, BPM, System z and Power Systems for free
- ✓ A low risk cloud based approach to try out several new offerings and integrated solutions

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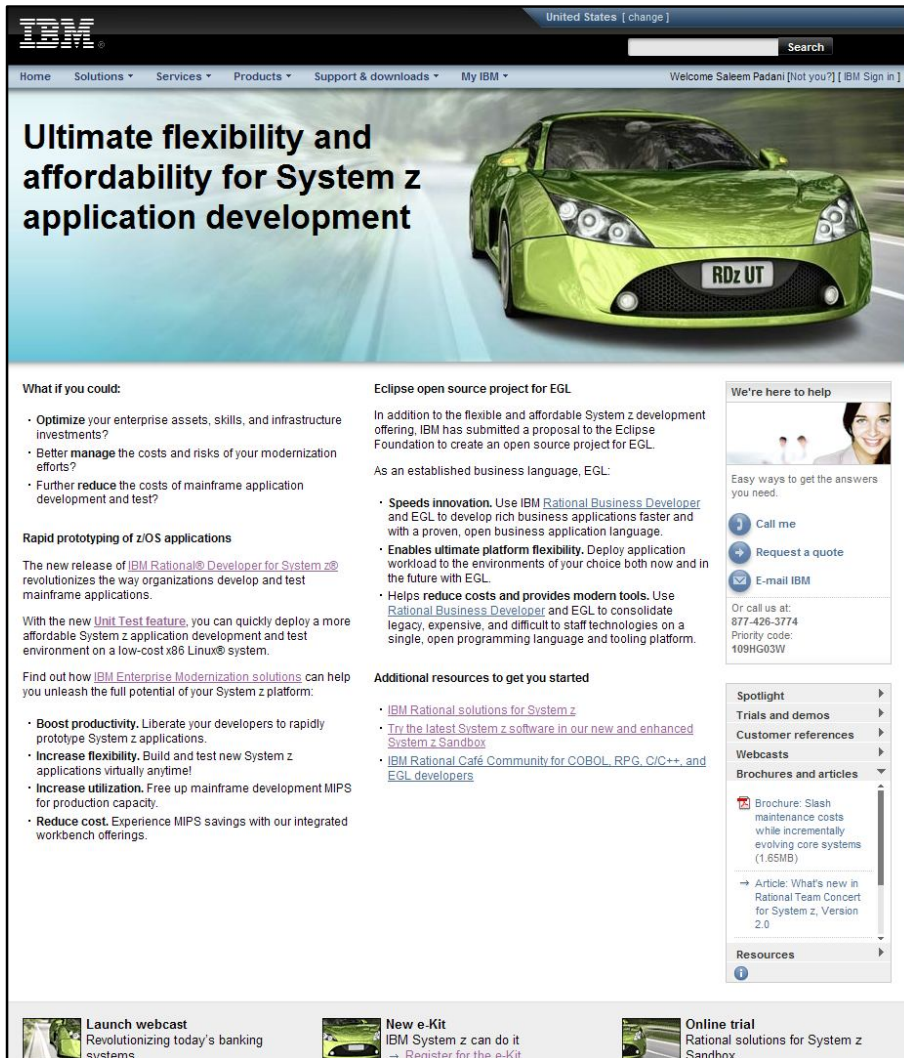
IBM Rational Cafés

- ✓ To help, IBM has implemented solutions that feature community-based knowledge sharing - that give your developers instant, secure access to shared content, and opportunity to interact with IBM experts on topics related Enterprise Modernization

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Ultimate flexibility and affordability for System z application development



What if you could:

- Optimize your enterprise assets, skills, and infrastructure investments?
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- Further reduce the costs of mainframe application development and test?

Rapid prototyping of z/OS applications

The new release of [IBM Rational® Developer for System z®](#) revolutionizes the way organizations develop and test mainframe applications.

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Find out how [IBM Enterprise Modernization solutions](#) can help you unleash the full potential of your System z platform.

- Boost productivity. Liberate your developers to rapidly prototype System z applications.
- Increase flexibility. Build and test new System z applications virtually anytime!
- Increase utilization. Free up mainframe development MIPS for production capacity.
- Reduce cost. Experience MIPS savings with our integrated workbench offerings.

Eclipse open source project for EGL

In addition to the flexible and affordable System z development offering, IBM has submitted a proposal to the Eclipse Foundation to create an open source project for EGL.

As an established business language, EGL:

- Speeds innovation. Use [IBM Rational Business Developer](#) and EGL to develop rich business applications faster and with a proven, open business application language.
- Enables ultimate platform flexibility. Deploy application workload to the environments of your choice both now and in the future with EGL.
- Helps reduce costs and provides modern tools. Use [Rational Business Developer](#) and EGL to consolidate legacy, expensive, and difficult to staff technologies on a single, open programming language and tooling platform.

Additional resources to get you started

- [IBM Rational solutions for System z](#)
- [Try the latest System z software in our new and enhanced System z Sandbox](#)
- [IBM Rational Café Community for COBOL, RPG, C/C++, and EGL developers](#)

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Spotlight

- Trials and demos
- Customer references
- Webcasts
- Brochures and articles

Brochure: Slash maintenance costs while incrementally evolving core systems (1.65MB)

Article: What's new in Rational Team Concert for System z, Version 2.0

Resources

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IBM Power Systems Software

Power your innovation

Build smarter products and services faster with reduced cost and risk

IBM Rational solutions for Power Systems

Rationalizing Power

Today, businesses can do more with less and make the most of their IT investments. As the economy recovers, organizations look for ways to further optimize and extend the value of their IT investments with the least cost and disruption to existing infrastructure.

IBM Rational® solutions for Power Systems™ servers provide organizations with new, cost-effective, and practical optimization opportunities that free resources to build new smarter products and services that deliver business value.

These Rational solutions help accelerate development and delivery of multiplatform applications on IBM AIX®, IBM i, and Linux® operating systems that can help:

- Improve system utilization by exploiting new POWER7 hardware and existing system capabilities
- Boost productivity and accelerate innovation with modern development environments
- Enhance organizational agility by leveraging a common team infrastructure
- Increase flexibility by better managing and integrating application portfolios

Increase system utilization. The IBM Rational high performance compilers for [C/C++](#), [COBOL](#), [Fortran](#), [PL/1](#), and [RPG](#) offer cost savings and utilization from your existing infrastructure. Modern compilers can leverage multi-core and parallelization which improves performance and scalability of your applications.

Boost productivity. [IBM Rational Developer for Power Systems Software](#), [IBM Rational Application Developer for WebSphere® software](#), and [IBM Rational Business Developer](#) offer a common developer desktop delivering integrated development tools for AIX, IBM i, and Linux operating systems across multiple languages.

Maximize business agility. [IBM Rational Team Concert™ for Power Systems Software](#) offers a common server infrastructure enabling collaborative coordination for development teams for all Power Systems environments.

Increase flexibility. [IBM Rational Developer for Power Systems Software](#), [IBM Rational Host Access Transformation Services \(HATS\)](#), and [IBM Rational Migration Extension](#) can help extend the value of existing investments in IBM i, AS/400®, iSeries®, System i®, green screen, RPG, and COBOL applications by exploiting decades-worth of business value embodied in these systems.

Spotlight

- Cover Story: IBM VP Scott Hebner - Rationalizing Power
- IBM Power Systems Announcement: Power your planet
- Launch webcast on April 15th: Smarter systems for a smarter planet
- IBM Rational solutions for Power Systems

Trials and demos

Brochures and articles

Key resources

The time to innovate is now

Innovate2010

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 → Register for the webcast

New e-Kit: Power your Innovation
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Online Trials: IBM Power Systems Sandbox
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