

# Let's tie it all together and play in the sandbox





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## Agenda

- 08:40 09:40 Build a smarter foundation for future investments
- 09:40 09:50 Break (10 min)
- 09:50 10:50 Smart Reuse- Transform green screens to Web, SOA, mobile, and portal
- 10:50 11:00 Break (10 Min)
- 11:00 12:00 Speed the development of multiplatform applications

## 12:00 - 01:00 - Lunch (1 hour)

- 1:00 2:00 Developing Web 2.0 applications using Mashup Tools
- 2:00 2:10 Break (10 Min)
- 2:10 3:10 Smart Work on System z: Enhance teamwork with multiplatform SCM tools
- 3:10 3:20 Break (10 Min)
- 3:20 4:20 Let's tie it all together and play in the sandbox
- 3:20 4:30 Close



## Existing COBOL/CICS 3270 Application







## **Invoking CICS Web services from iPhone**

Using COBOL/CICS/VSAM



rbarosa@us.ibm.com

### http://zserveros.demos.ibm.com:9080/iPhone/egl.html

#### More at:

http://www.ibm.com/developerworks/websphere/techjournal/0909\_barosa/0909\_barosa.html



LAB #2. Create a Web 2.0 Interface using Rational Developer for System z with EGL (RDz/EGL) ( 30 Minutes or more – no optional)

You can choose both or just one











(30 Minutes or less)



LAB #2. Create a Web 2.0 Interface using Rational Developer for System z with EGL (RDz/EGL)







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## LAB #1 Create CICS Services, deploy test and debug using RDz





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## LAB1 #1 Create CICS Services, deploy test and debug using RDz

http://download.boulder.ibm.com/ibmdl/pub/software/dw/rational/emz/Wrap\_existing\_COBOL\_program\_as\_Web\_Services.pdf

## IBM Enterprise Modernization for System z: Wrap existing COBOL programs as Web Services with IBM Rational Developer for System z

23. Verify the WSDL that was generat	ed: double-click LAB324D.wsdl and use the WSDL Editor	ssets
to visualize the input and output m Figure 27. Using the WSDL Editor LA8324.wed X LA83POTService LA8324Pot http://zserveros.dfw.ibm.c	essages, as shown in Figure 27.	
1. Start RDz	Start $\rightarrow$ Programs $\rightarrow$ IBM Software Development Platform for RI IBM Rational Developer for System z V7.6 $\rightarrow$ IBM Rational Developer or click on the icon $\textcircled{O}$ in the windows quick launch:	Dz7.6 → eloper for System z 7.6 )  🍇 😥
2. Point to:	Select a workspace	
	Workspace: C:\Workspaces7.6\SANDBOX	© 2010 IBM Corporation

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LAB #1. Create a CICS Web Service and WSDL using Rational Developer for System z (RDz)



LAB #2. Create a Web 2.0 Interface using Rational Developer for System z with EGL (RDz/EGL)

## (30 Minutes or more – no optional)







## LAB #2 Using RDz with EGL create the Web 2.0 Interface







## LAB #2 Using RDz with EGL create the Web 2.0 Interface

http://download.boulder.ibm.com/ibmdl/pub/software/dw/rational/emz/Accessing\_Existing\_CICS\_VSAM\_application\_from\_iPhone.pdf







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## Next Steps: How to get started? Resources to help kick-start your Enterprise software innovation

#### System z Sandboxes

Example assets and best practices providing low-risk, practical, hands-on path to leveraging IBM solutions

- Full version software trials
- 'Try online' hosted System z environments
- Hands-on-exercises

### System z Starter Solutions

Solution to help you incrementally evolve core IT systems towards modern architectures and technologies

- Discover, reuse and grow
- Analyze and modernize
- Develop and manage
- Test and track

Jump-start your modernization projects!

### **Education Series**

## Modern Application Architecture for COBOL Developers

Learn how to design and integrate composite applications across CICS and WebSphere – leveraging existing COBOL processes

#### EGL Distance Learning

8 days of training free electronically - lectures, labs, and electronic support

Learn more at: www.ibm.com/rational/modernization



http://w3-103.ibm.com/software/xl/portal/viewcontent?type=doc&srcID=R9&docID=X983555G31195K78















## Bank Scenario – Originals slides

(not Ready as Jan 26,2010)









## Scenario: JKHL Bank Organization Overview and Objectives

#### Who we are

- JKHL Bank is a tier 2 bank, who, over the last several years has acquired 5 smaller regional banks to create a broader geographic presence.
- Our business started in 1935, we have a well recognized brand and a solid brand image. By 1999, we had 500 branches in 6 countries providing retail, corporate, commercial and private banking.
- We have achieved remarkable success in migrating banking transactions from branches to alternative distribution channels. Over 50% all our banking transactions are carried out via alternative channels including ATMs, Kiosks, internet and the call center, a ratio that is above most banks.
- We win in the marketplace with a high-touch approach to our customers. We pride ourselves with understanding our customer segmentation and providing differentiated service based on customer profitability. We are known for our innovative products

#### Who we want to be

- In the short term, given recent changes in financial markets, we are reducing costs and leveraging existing assets and processes, while at the same time, providing robust capabilities to manage dynamic issues of risks as well as regulatory compliance
- In the long term, we want to achieve differentiation through improved customer experience and innovative self-service offerings
- We want to show that we really know our customers through the use of integrated data and analytics, and by having more meaningful customer interactions that can develop profitable customers, who go beyond loyalty to become advocates.
- We want to build on our ability to deliver innovative products and services as well as provide a seamless experience across the different LOBs and channels



In order to make their banking operations more profitable, JKHL Bank recruits IBM to analyze its existing business processes and provide recommendations for a business transformation.







Inconsistent View of Customer
 Information Locked in Repositories
 Inconsistent Data
 Poor Channel Communication





## Why JKHL Considers Account Opening to be a Key Initiative

## **Cost Breakdown of a Bank's Activities**





Source: IBM Banking Industry Thought Leadership products; IBM client engagements

reason behind costs





## **Capability Model Ties Business Capabilities to Initiatives**



IBM verifies that the core capabilities which JKHL Bank identified as being vital to the company, are mapped to its key business initiatives, which in turn is addressed by the company's enhanced offerings.





## **JKHLE - Current State Assessment / General Observations**

#### Accounts:

- Account information is duplicated and inconsistent within multiple systems and LOBs
- All pre-requisites for a new account cannot be satisfied via any channel (of choice)
- Promotions are not consistently offered across delivery channels
- Limited risk management during account open process

Customers:

- Lack of a single presentation of information across channels
- Unable to exchange information with bank via channel of choice
- Customers are forced to re-supply personal information for every new account they open with the bank
- Customers do not understand why all accounts and services are not available using a single user interface

#### Systems:

IT systems designed to support various channels and lines of business as separate systems Web system, Catalog/Call Center system and Store system are on very different infrastructures

#### Many legacy applications

- Less flexible than newer technologies monolithic, home grown applications which are not easily adaptable to open standards
- Numerous technologies supported
  - Some supported long past end of life
  - -Attempts by a few IT departments within the company to adopt SOA
  - No enterprise-wide SOA strategy
- Some use of newer, web-based technologies





## **Rational Banking Modernization**











## Backup









## Use scenarios to uncover customer needs









![](_page_28_Picture_0.jpeg)

![](_page_28_Picture_1.jpeg)

## Web Services for CICS 3.x Example Bottom-up Compiled XML Conversion - 1 of 2

![](_page_28_Figure_3.jpeg)

![](_page_29_Picture_0.jpeg)

![](_page_29_Picture_1.jpeg)

## CICS Web Services Compiled Conversion – Example – 2 of 2

![](_page_29_Figure_3.jpeg)

![](_page_30_Picture_0.jpeg)

![](_page_30_Picture_1.jpeg)

## Recording Scripts Verification Points

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You See...

## Functional Tester Sees Properties

#### Automated Validation

- Functional Tester captures data and properties that can be invisible to users
- During script execution, current results are compared to stored baselines
- Discrepancies are flagged and reported to user in an HTML based test log

![](_page_31_Picture_0.jpeg)

![](_page_31_Picture_1.jpeg)

## **Simplified Test Representation**

Scenario: My business SME must contribute to the QA activities

Today the business user is overwhelmed by technical

![](_page_31_Figure_5.jpeg)

... and 'Objects' and other advanced options

# With 8.1 we will speak the language of the business user

![](_page_31_Figure_8.jpeg)