'IBM TechSoftware nouvelle génération

8, 29 et 30 août BM Client Center Paris



#solconnect13



Session RAT03 Les solutions innovantes pour les équipes de développement System z

QUIBLIER
r System z Specialist
are Group Europe



nda

duction to the Integrated Solution for System z® Development

nponent tool overviews

Rational Asset Analyser

Rational Developer for System z

Rational Team Concert with Enterprise Extensions

Rational Developer &Test Environment

nario





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



"Our skills gap keeps growing.

How do we stay current with all the language and technology changes?"

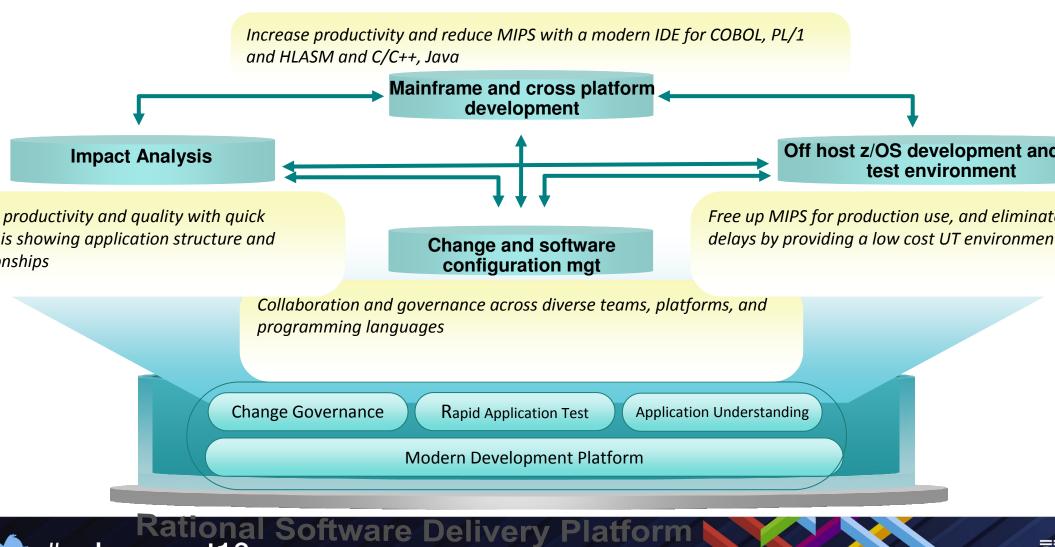


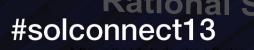
"We need to enable our teams to collaborate across platforms, languages, and environments."



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

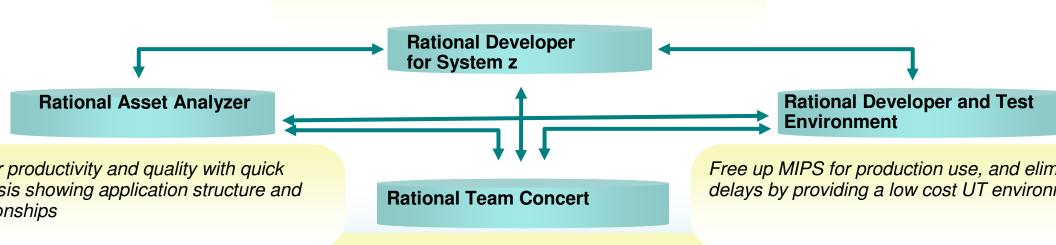
Integrated Solution for System z Development





ntegrated Solution for System z Development

Increase productivity and reduce MIPS with a modern IDE for COBOL, PL/1 & HLASM and C/C++, Java



Collaboration and governance across diverse teams, platforms, and programming languages

Change Governance Rapid Application Test Application Understanding

Modern Development Platform

Rational Software Delivery Platform

hese integrated tools provide a modern development platform that enables high individual and team productivity and extends the ative Lifecycle Management (CLM) to the mainframe developer and allow developers to perform reliable analysis when making a

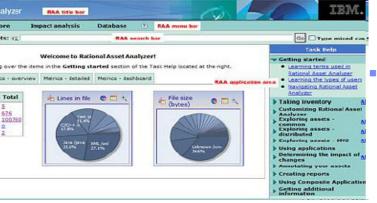
n the <u>Jazz</u> platform, <u>Rational Team Concert</u> allows Project Managers, Architects, Analysts, Developers and Testers to collaborate e development of applications on System z and distributed platforms. Rational Team Concert integrates planning, source contro ogress tracking, and build management into a single application which can be accessed through a web browser or integrated with e<u>r for System z</u> to provide a single integrated development environment.

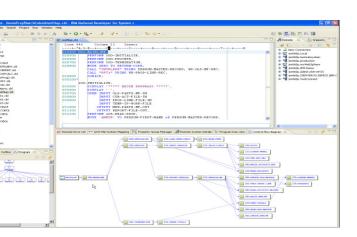
<u>onal Developer for System z</u> supports CICS®, IMS™, DB2®, and WebSphere® Application Server (WAS) while helping make m on development faster, more efficient, and less costly. It accelerates the development of your mainframe applications, including to PL/I, C/C++, and Assembler applications, Web services, and XML-based interfaces linking to the web.

Asset Analyzer provides insight into relationships within and among mainframe and composite applications providing better unde ct and risks of change.

<u>onal Developer & Test</u> provides a low cost test environment for mainframe applications, complimenting the Rational Developer for the control of the control of the Rational Developer for the control of the control of the Rational Developer for the control of the Rational Developer for the Control of the Rational Developer for the Control of the Cont

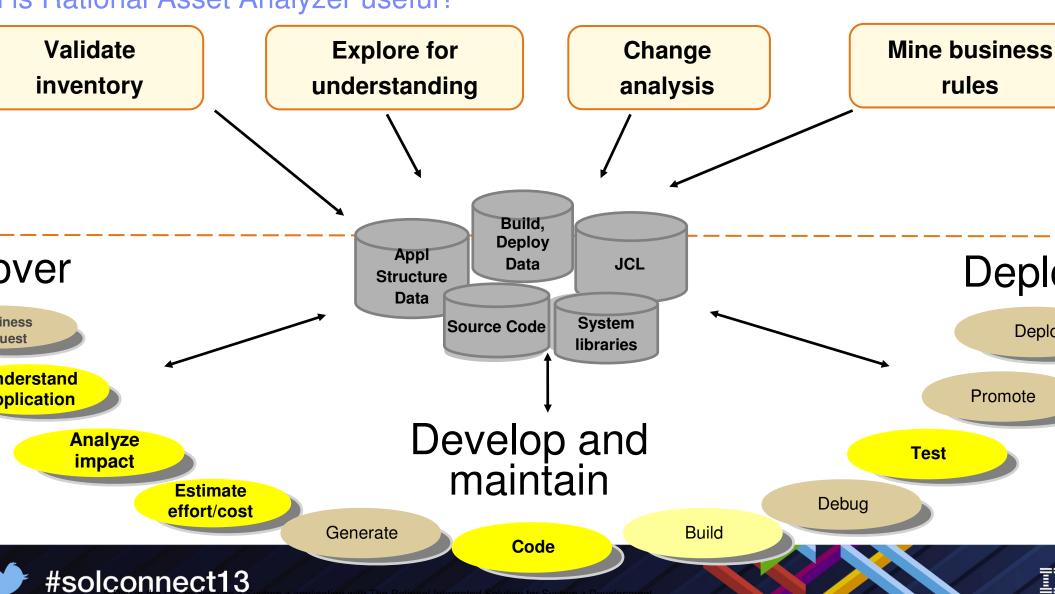
nal Asset Analyzer





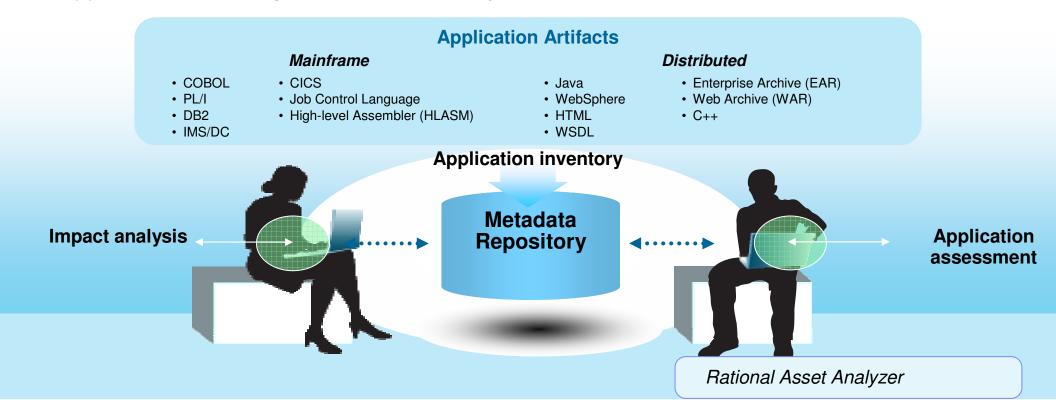
- Quickly understand flow and relationships across the enterprise elittle or no documentation
 - Analyze, understand, and navigate complex application source code, including COBOL, FC/C++, Java/JEE, etc...
- Reduce time to market and risk of resource shortage by understa impact of change, upfront
 - Understand source code complexity/fragility
 - Analyze impact of potential code changes or database changes
 - Find "dead code" for deletion from source base
- Choose from two user interfaces for ease of access and use
 - Integration with Rational Developer for System z for IDE users
 - Browser-based user interface for dashboard and complex query construction
- Supports enhanced usage Scenarios
 - COBOL Business Rule identification and capture
 - Extend RAA "vocabulary" to map business terms and properties to those used by de
 - Use RAA's capabilities to find where rules are encoded in the COBOL source
 - Export results in formats consistent with WODM BRMS technologies
 - Healthcare industry ICD migrations

is Rational Asset Analyzer useful?



ess intelligence for applications

e lost application knowledge via technical analysis



ing

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



lete set of System z Development and Test capabilities from an integrated opment environment

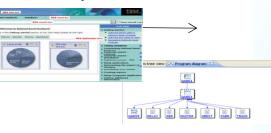
Integration with Team Concert for Lifecycle and Source Management



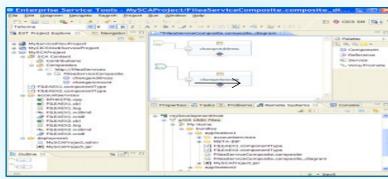
Access to typical System z sub-syste functionality in z/OS, CICS, IMS, DB WAS



ration with Asset Analyzer for tion Understanding and Impact Analysis



Rational Developer for System z



Integration with Debug Tool for Development and Test



A modern IDE for productive development of cross-platform applications written in COBOL, PL/I, HLASM, Java, EGL or C/C++ in System z CICS, IMS, DB2, Batch applications



ation with Fault Analyzer for Dump

Analysis



Integration with RD&T for flexible access

to System z environment

Integration with File Manager for file test data handling



nal Developer for System z v9.0

dern development environment for the modern mainframe

DE features to **pull-in new developers** to System z application ent with rich, modern development for **COBOL**, **PL/I**, **Java**, **JCL**, S, Batch, Stored Procedure

, easy to use editors with immediate, inline assistance and of host-based resources

debug across complex application layers and boundaries

code, build, test, and deploy **mobile apps** that run on a wide mobile platforms; Quickly refactor and extend existing back-end and data to new mobile UIs

alysis that warns you about poorly written code

ew:

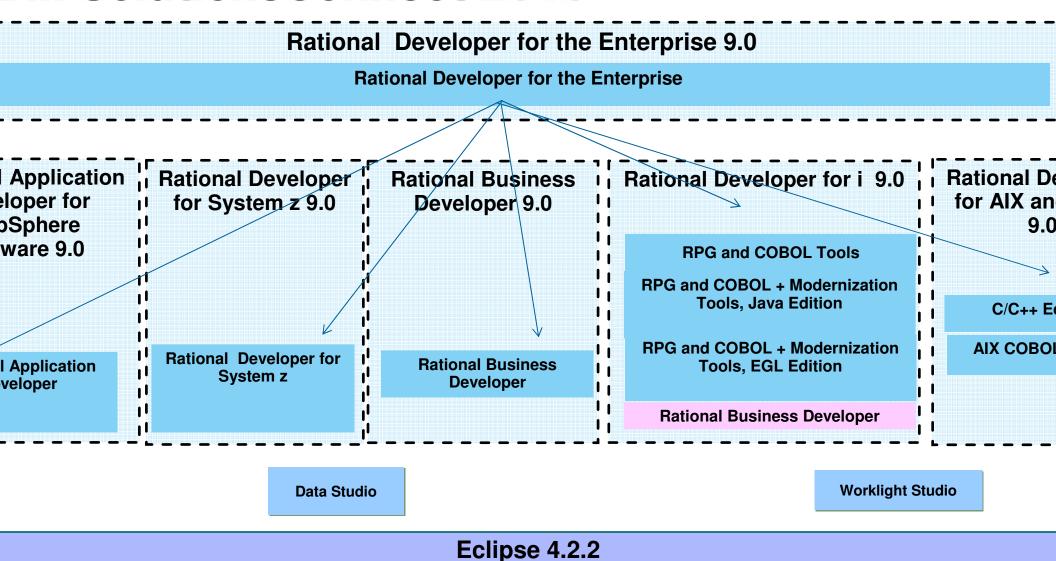
oport for CICS TS 5.1 & optimized COBOL v5 compiler nanced JCL editing comate unit testing with zUnit adless code review and code coverage



"Working across several source code files and copy books— and debuggi same time!— is game changing."

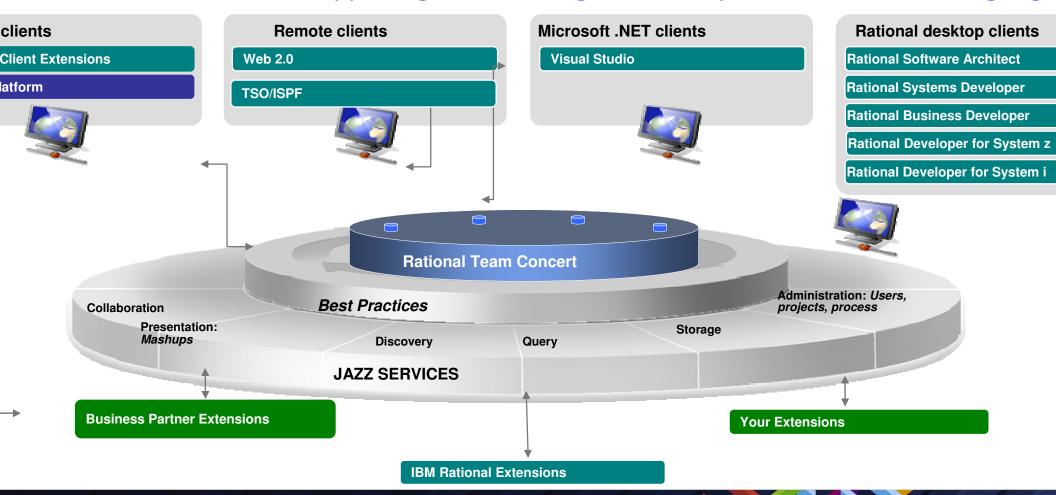
COBOL Application Programmer





Rational Team Concert

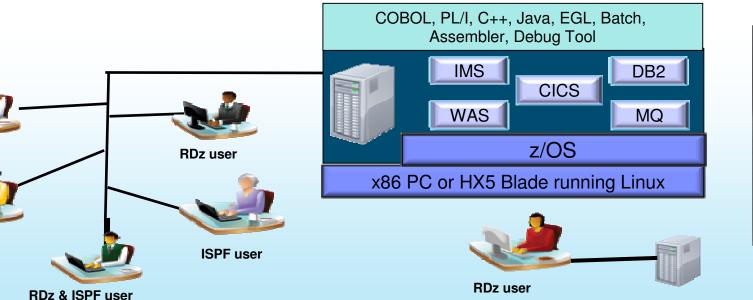
en, extensible architecture supporting a broad range of desktop clients, IDEs and language





nal Development and Test Environment for System z (RD&T)

imate in modern application development for System z





berate developers to rapidly prototype new applications (Sandbox environment) evelop and test System z applications anywhere, anytime! (Developer freedom) ree up mainframe development MIPS for production capacity (Hard cost savings) liminate costly delays by reducing dependencies on operations staff (Time-to-market)

Vendredi à 11:45 Session RAT10

Faciliter les développements et tests sur System Pierre PELLET

ENHA

nal Development and Test Environment for IBM System z v9

e System z development costs with high fidelity off host development and test

oit added zEnterprise capability for increased frame compatibility

BM SolutionsConnect 2013

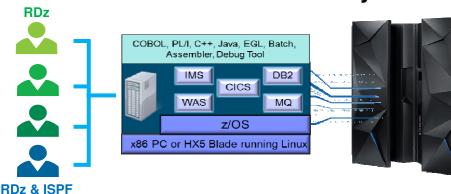
Parallel Sysplex support via the latest System z coupling ity

zEnterprise EC12 platform support

er development and test coverage early in the cycle for higher lity applications delivered more quickly

ove hardware utilization and simplify agement

 support for virtualization technologies, including VMWare here and IBM zEnterprise BladeCenter Extension Rational Development and Test Environment for System z



Open Lifecycle Integration and Services Management Plati

, flexible licensing to support automated ng and variable usage patterns

"RD&T provides us with the ability to try development approaches that may introduce instruction normal environment with none of the associated risks. It provides an environment where we start a new project without waiting for setup delays inherent in our day-to-day processes." Development Team Lead



BM SolutionsConnect 2013 terprise COBOL for z/OS v5.1 (Ann: 4/23; GA:6/21)

key to supercharging IBM System z Applications

anced technology designed to optimize COBOL rams and fully exploit z hardware (including latest 12 hardware)

elivers greater than 10% performance improvement over nterprise COBOL v4 for well structured, CPU-intensive batch pplications on System z¹

lany numerically intensive programs have shown performance icreases greater than 20%1

laintains compatibility with previous COBOL releases

s on z/OS V1.13 and z/OS V2.1

programming and application modernization abilities

nables users to deliver enhancements to business critical pplications quicker with less cost and lower risk

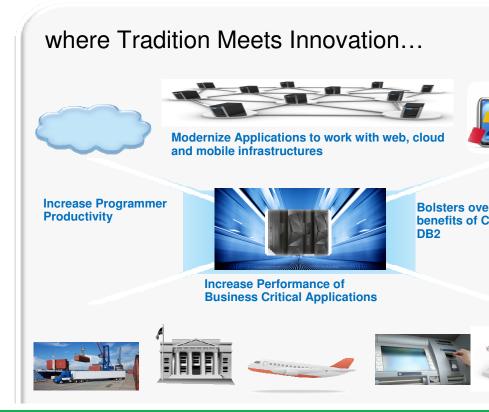
ws user who implement sub-capacity tracking to

ce administrative overhead

Enterprise COBOL Developer. Trial now available

ise PL/I for z/OSV4.4 (GA:Sept 6)

OS V2.1 XL C/C++ (GA Sept 30)



"Our testing of COBOL V5 shows a significant performance improvement for math financial services company with a continually narrowing batch window, that improve very important to us. It will help us meet our Service Level Agreements and reduce by CPU utilization."

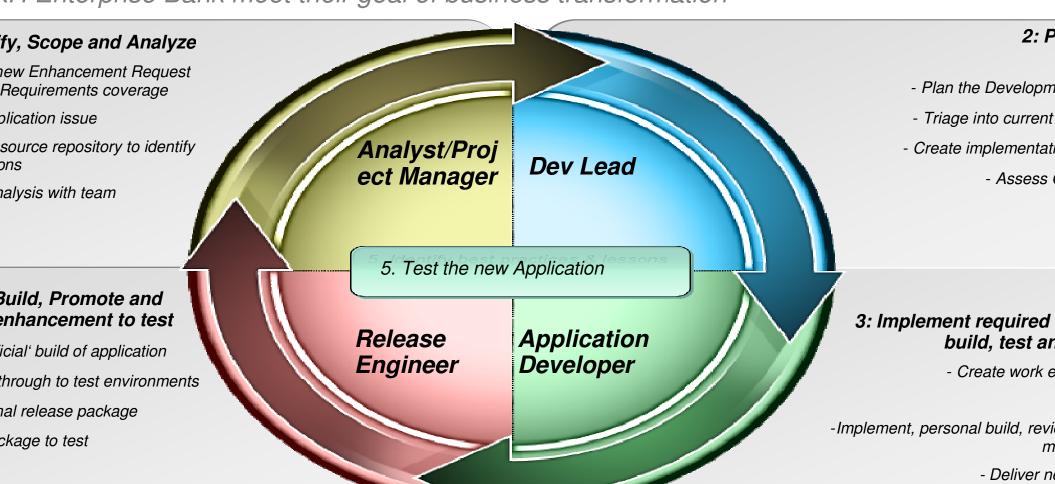
Michael A Todd, Software Architect

Multi-national financial services company

¹ Results are based on an internal compute-intensive test suite. Performance results from other applications may vary.

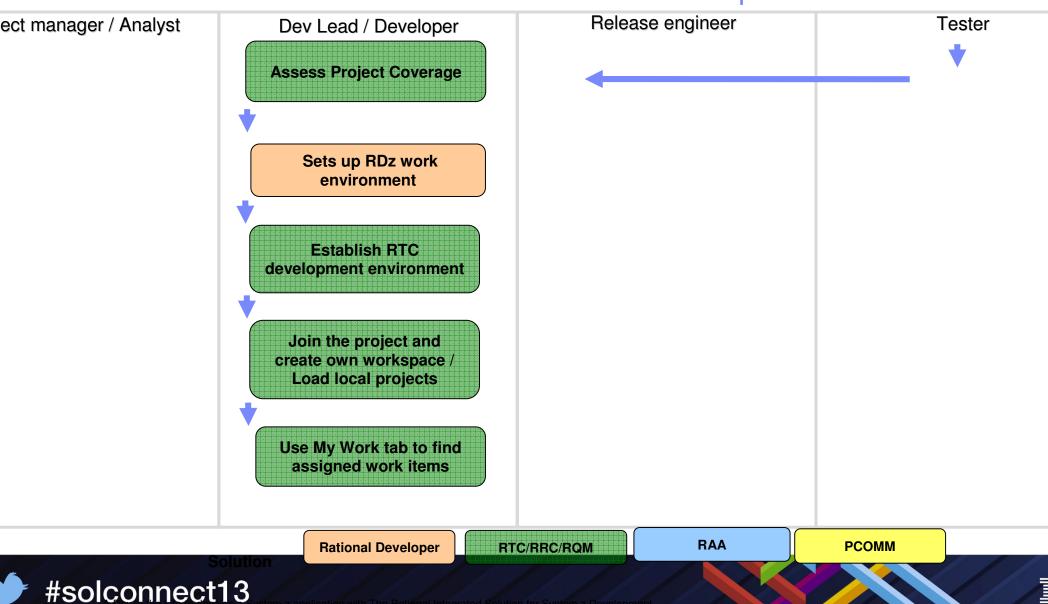
iew of steps in scenario

KH Enterprise Bank meet their goal of business transformation

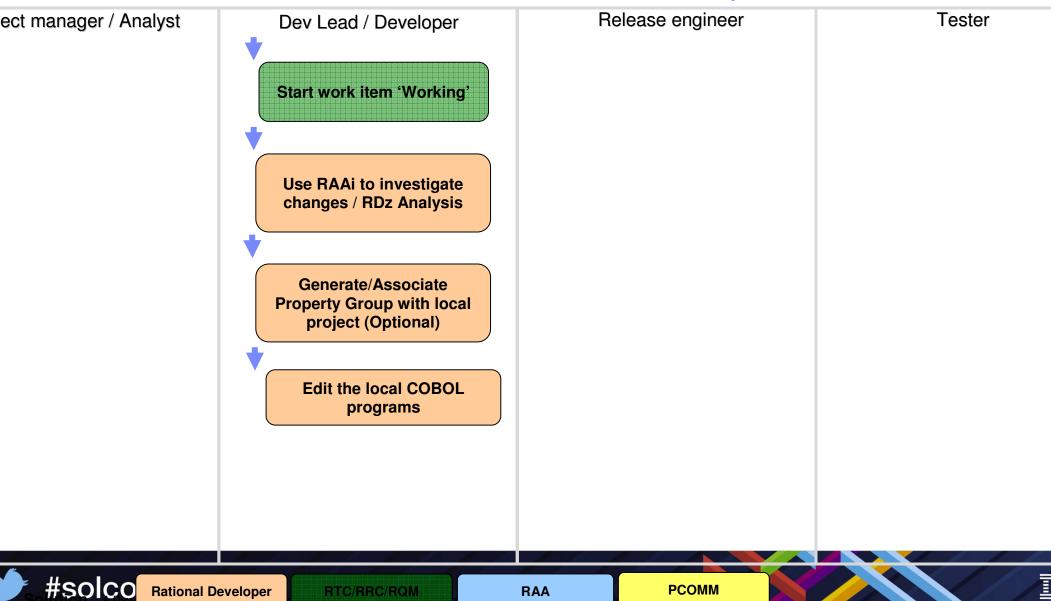




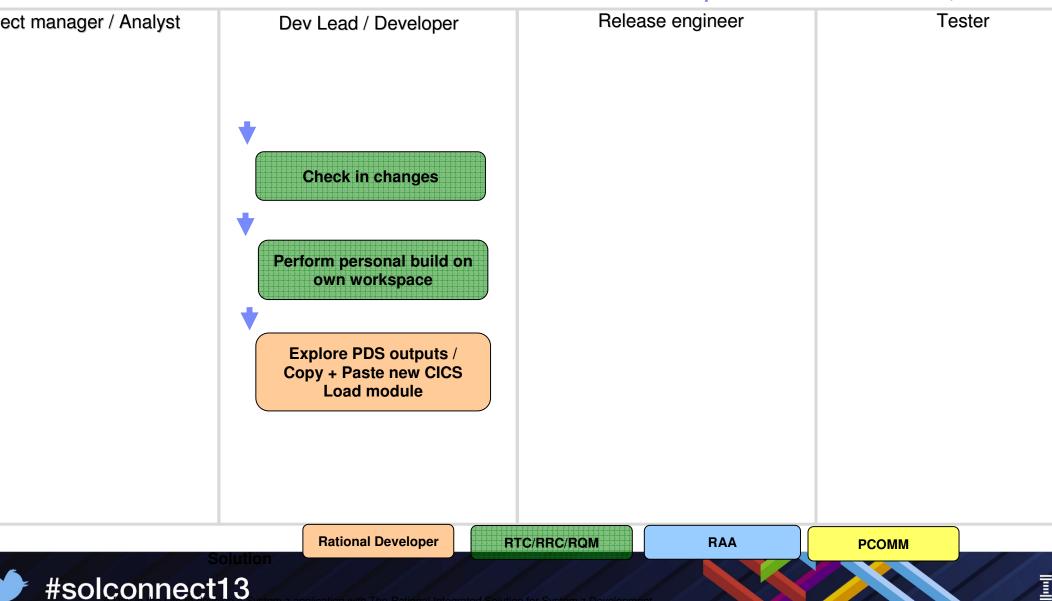
Sequence of events



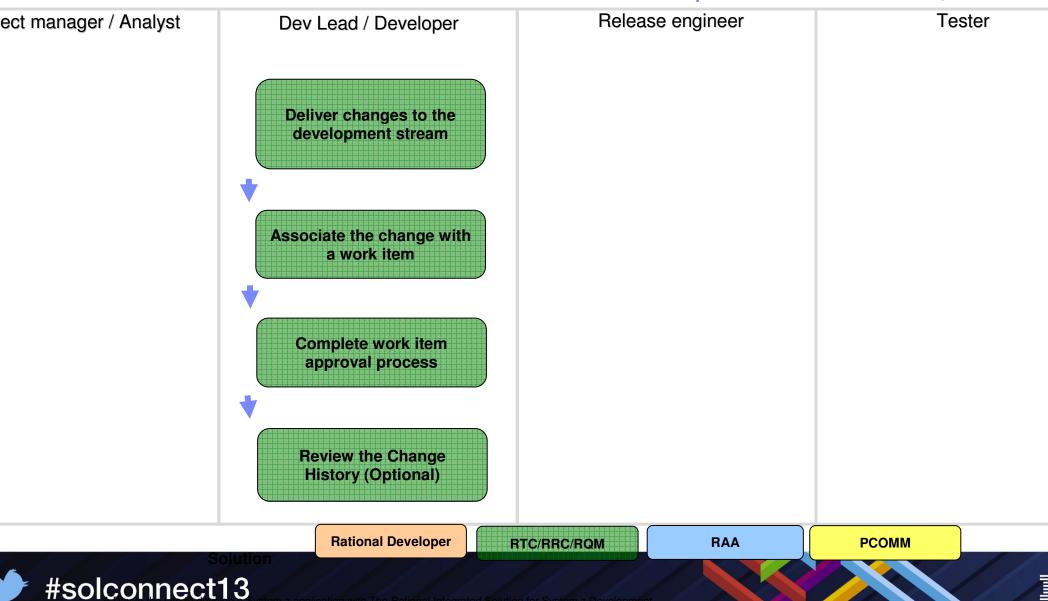
Sequence of events (continu



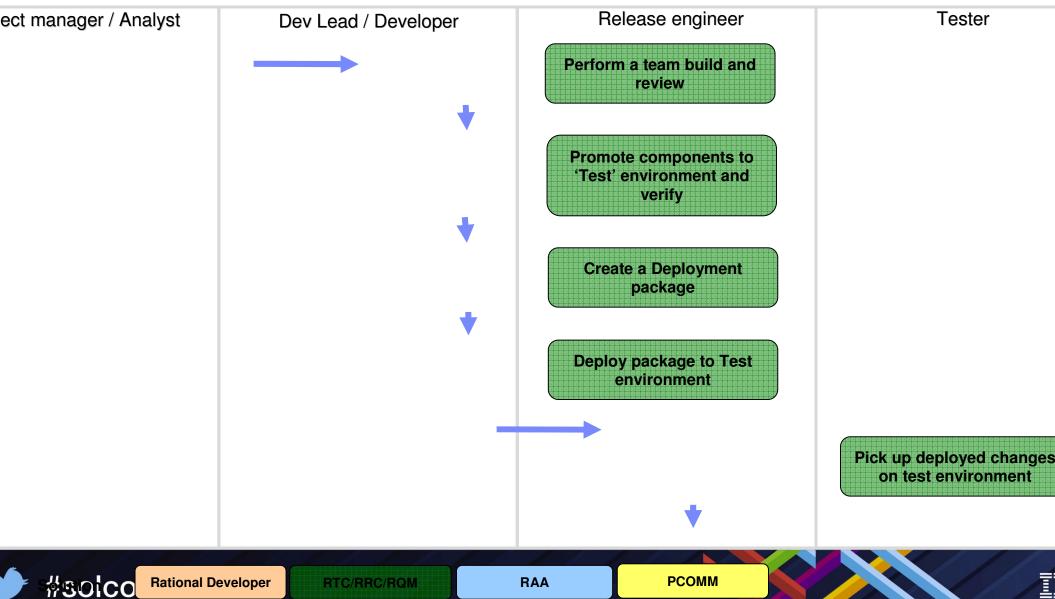
Sequence of events (continue



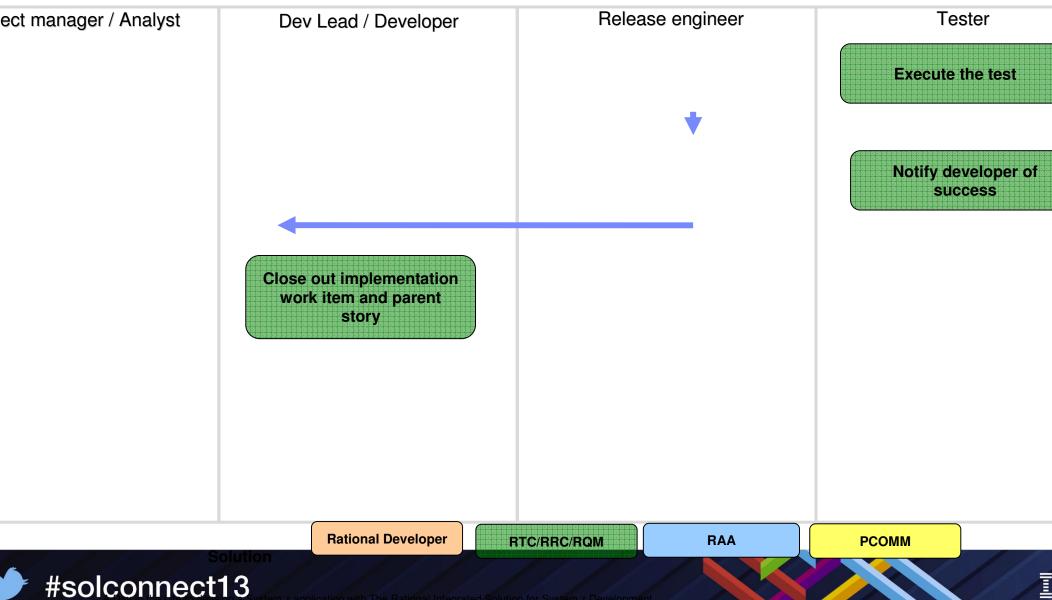
Sequence of events (continued



Sequence of events (continued



Sequence of events (continue



Questions



VIVASTREAM