

## Innovate2013 The IBM Technical Summit

開發者大會





## IBM CLM協作平台趨勢 與未來

IBM 軟體事業處 Rational 資深技術顧問 Tommy Wu

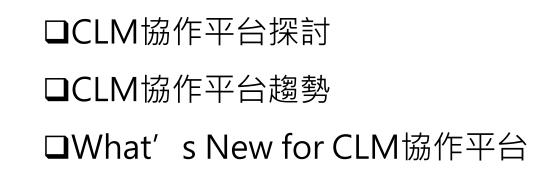






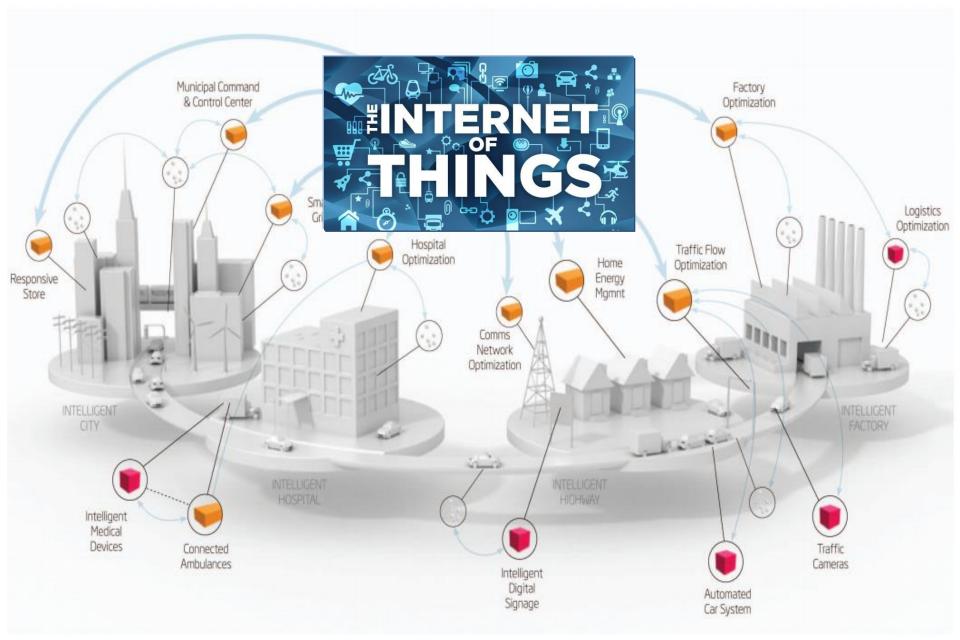
## Agenda





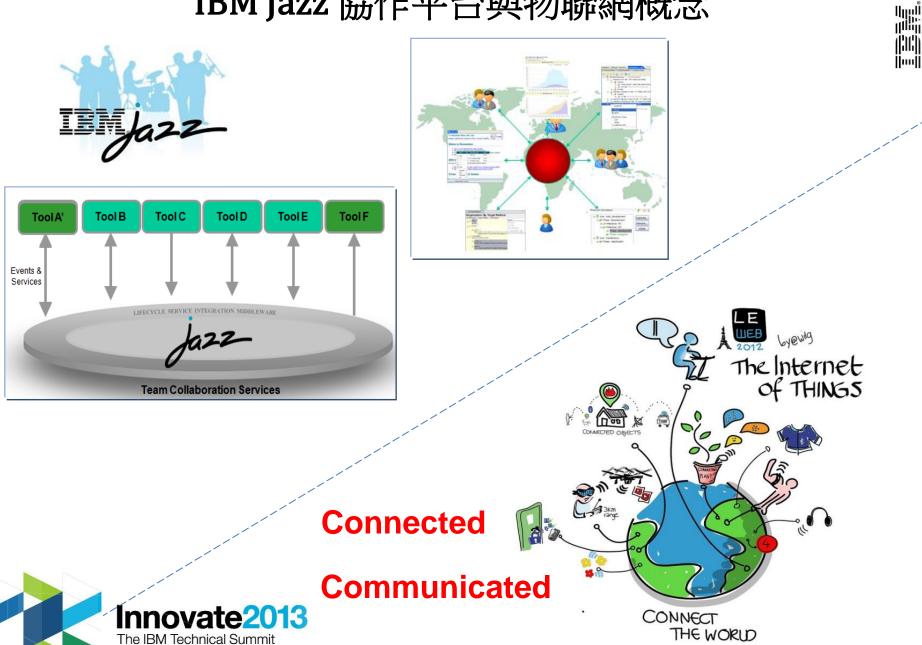






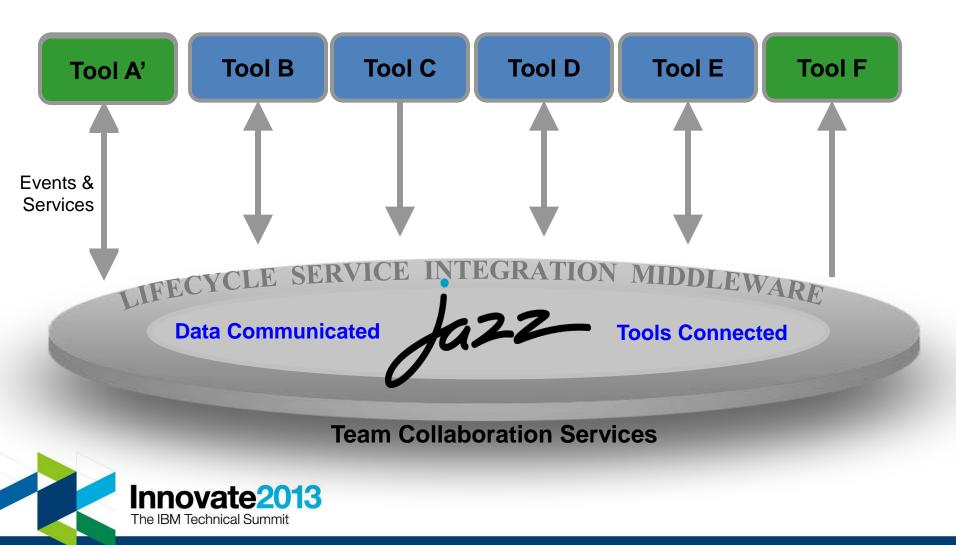


#### IBM Jazz 協作平台與物聯網概念



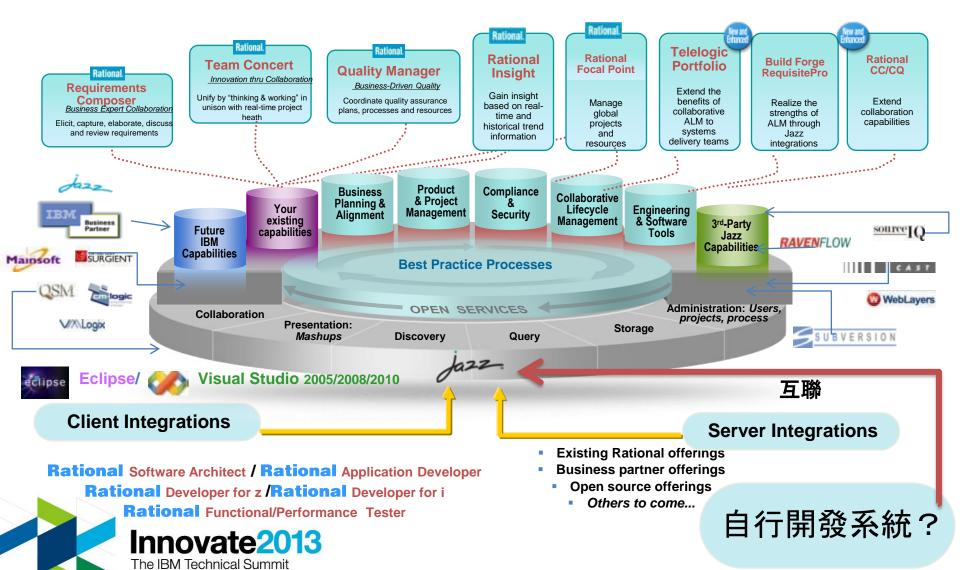
#### 通過軟體整合服務,實現工具間的協同合作

- 通過Jazz平臺,工具只需與平臺進行通信:
  - 監聽來自平臺的標準化事件
  - 向平台發送標準化的事件



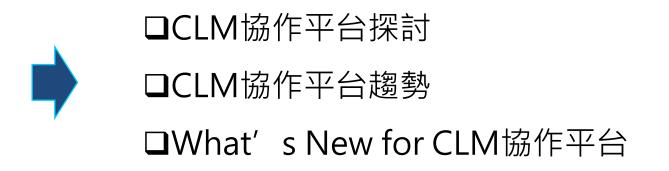
## **IBM Jazz Collaboration IOT-**共存與互聯





## Agenda

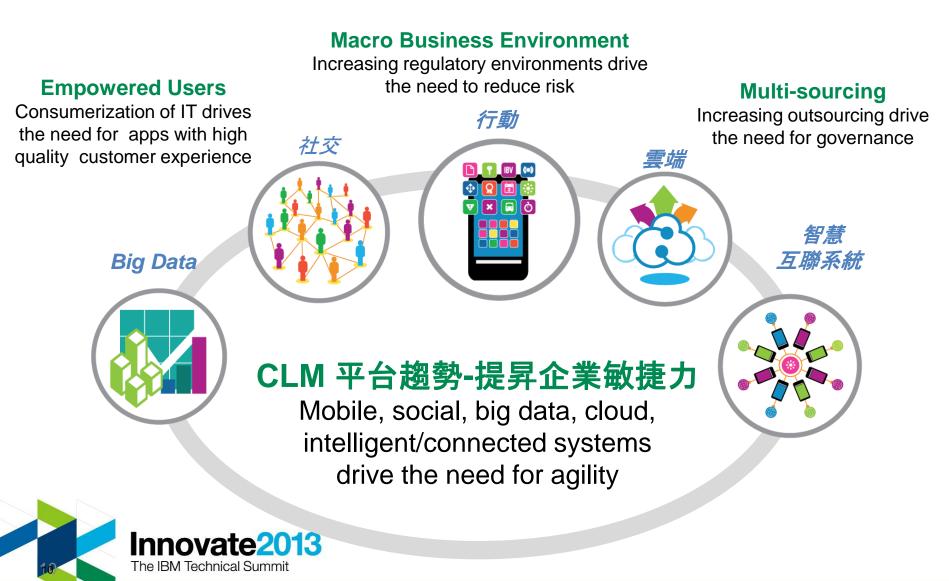




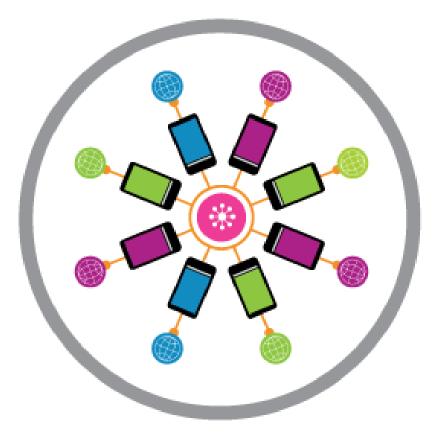




#### 市場的轉變正在挑戰企業對於軟體開發的創新





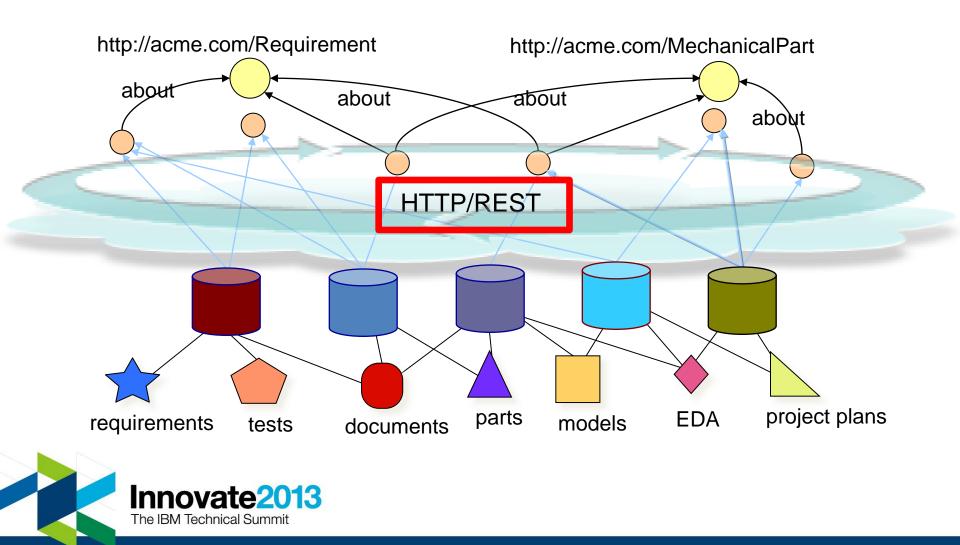




#### 協同平台互聯骨幹-OSLC (16) |....| Tests, Libraries, Samples, Examples, The Resource **Reference Implementations** for OSLC Implementers Future Eclipse Lyo Home of Enabling tool integration with OSLC OSLC Spec Dev OASIS 🔯 WORLD WIDE WEB Advancing open standards for the information society LINKED DATA PLATFORM WORKING GROUP **Open Services for Lifecycle Collaboration** Lifecycle integration inspired by the web Scenario-driven & Solution-oriented Leading choice for strategic integration Generally applicable: specs available for many domains technology covering ALM, DevOps, ISM, and PLM **OSLC:** Changing the industry Inspired by the web Free to use and share Innovate<sub>2013</sub> Innovative Proven Open The IBM Technical Summit

#### OSLC重要核心理念- Linked Lifecycle Data

The Web has proven to be the most **scalable**, **open**, and **flexible** integration technology



#### OSLC 發展及優勢



針對使用者而言:

•資料永遠是即時且最新的 – no staleness due to sync schedules/issues •在單一視窗內即時顯示其他工具之關連資料 – using preview panes ("rich hovers")

針對整合開發人員而言

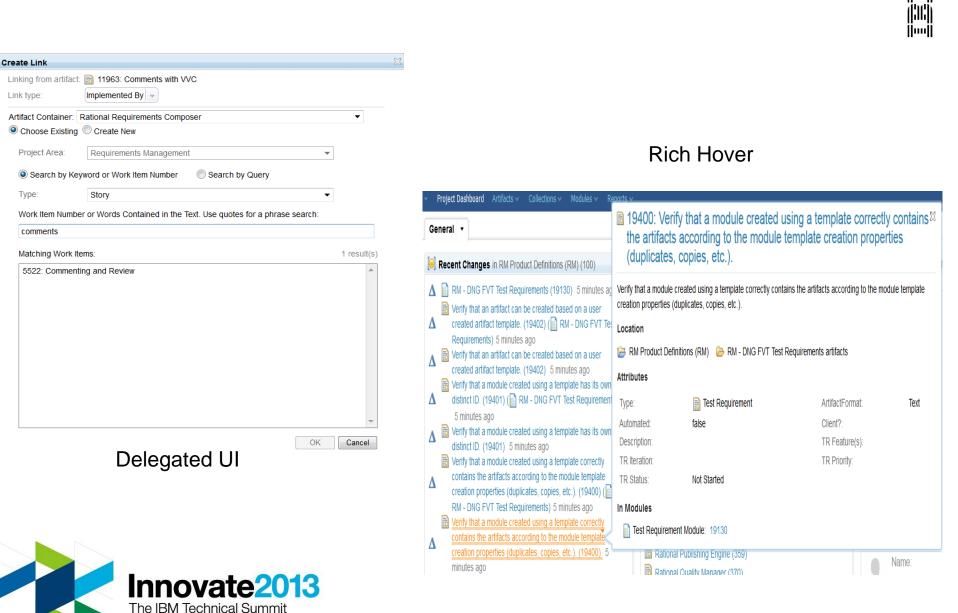
- •Loosely coupled don't need to know other tools' business logic
- •Shared specifications multiple tools implement same APIs
- •Not tied to a programming language use your favorite language
- •REST-based self-describing data, etc.
- •Practical on corporate networks or Internet uses http/https transport



#### 範例:What can I do with OSLC?

Link type:

Type









## JazzHub簡介

#### • What is JazzHub?

- JazzHub allows you to develop and collaborate on software projects in the cloud.
- Fully hosted task tracking, agile planning, and integrated source control so you have everything you need to develop your next app, feature or product.
- IBM' s premiere hosted environment for Cloud application development
- Explore and join existing projects

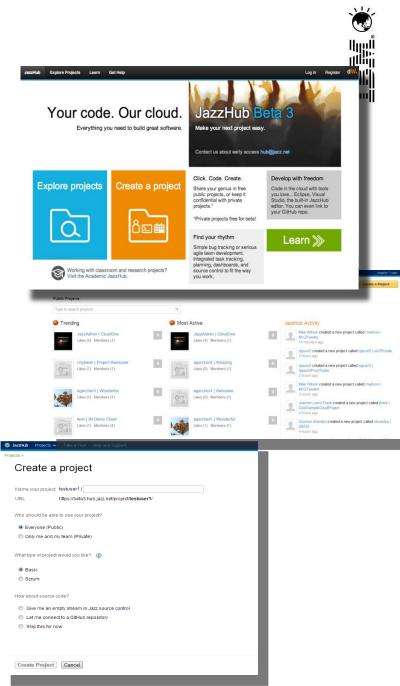
#### • Start quickly. Simply.

- No downloads required!
- Create your first project in minutes

#### Work the way you want to work

- Browser-based development using integrated Eclipse
   Orion technology provided by JazzHub
- Full support for local development with Eclipse or Visual Studio
- Built in support for Jazz Source Control
- Connect to your existing GitHub projects





## What is Orion?





- Eclipse "platform" project initiated 2 years ago -- Tools for the web, on the web
- An evolution in tooling leveraging the impressive recent improvements in browser capabilities and availability of cloud services
- Embracing the shift to web-based application delivery and enabling cross site collaboration of "pluggable" services

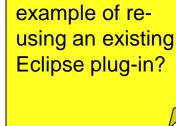




#### Two sources of an Orion Server

- Multi-user Equinox based Java Server
- Great for reusing existing Eclipse plug-ins and exposing them RESTfully to an Orion client
- Node.js based single user NPM install
- Very portable and great performance
- Deploy anywhere Node is installed

Also works on embedded boards like the Raspberry Pi







YouTube demo

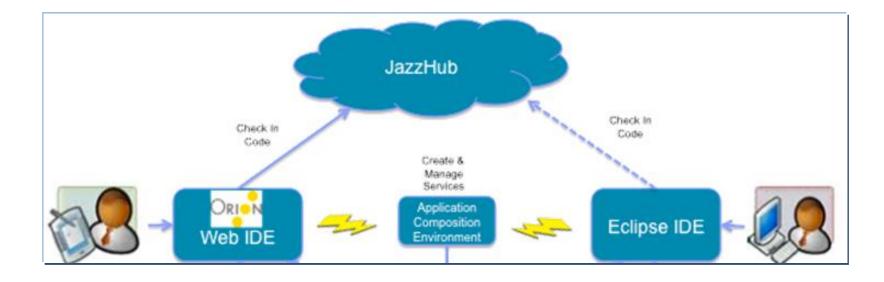






## Developing in the Cloud, for the Cloud

• So now I can edit my code in the Cloud, in the context of a hosted RTC project











#### CLM協同平台行動化應用

- RTC 行動化 App Released !
  - Use ClearConcert to check and update your work items from your droid or apple device



lluul



 Keep your process moving by updating ownership,state, target release and adding comments

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<b>¢</b> \$	ClearConcert		Back	Results	*	Back	Queries	*	Cancel	Stat	e Save
Favorites		Results for 'clearblade' by project:			Mobile (ClearBlade Tribe)						
Add favorites to quickly navigate to your most important work items, searches, or queries. Wherever you find a ★ on the toolbar, press it to		st	Mobile (ClearBlade Tribe)		(5) >	Retrospectives Open created by me		>	New		<b>~</b>
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#### Mobile IDE Support



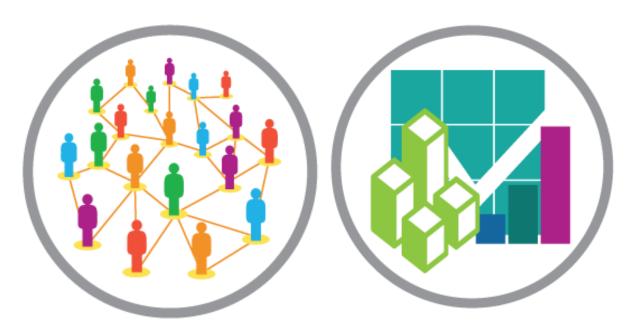
- Tablets such as the iPad, iPad mini and Android based platforms are fully supported by Orion
- Add a bluetooth keyboard for a mini workstation





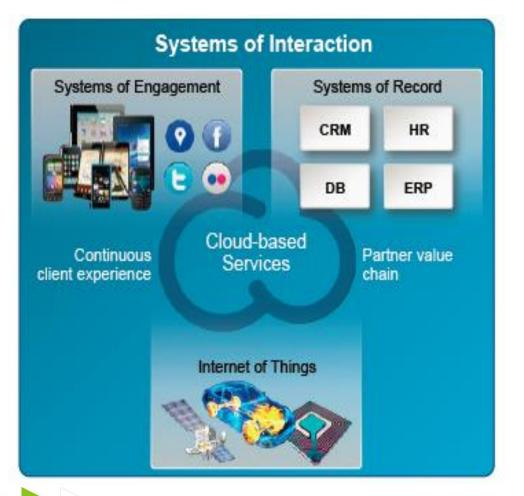








# 創新技術的發展所引發軟體持續交付(Continuous Delivery)的重要性

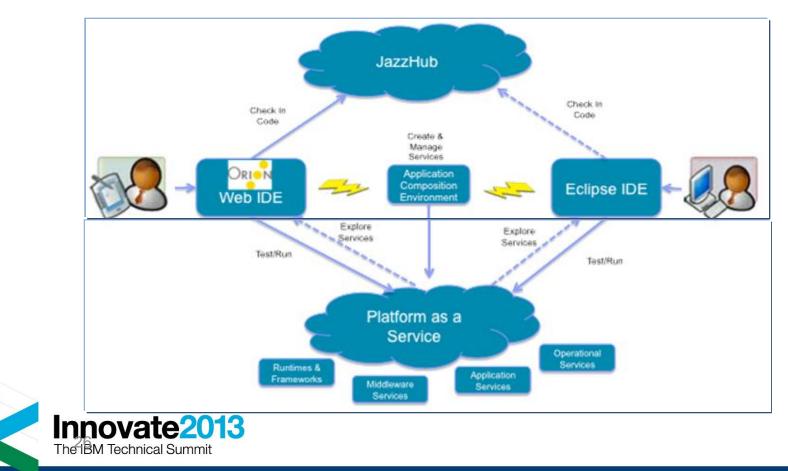


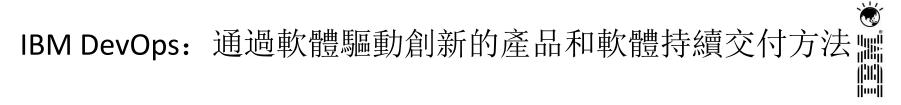
創新技術如行動應用、雲端、 IOT等等的發展導致了企業對於 產品或軟體Release的生命週期 縮短,但卻要求更高的品質



## Developing in the Cloud, for the Cloud

- So now I can edit my code in the Cloud, in the context of a hosted RTC project
  - Wouldn't it be cool if I could deploy my code right from there to a Cloud runtime?!?!?

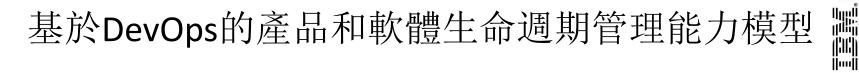


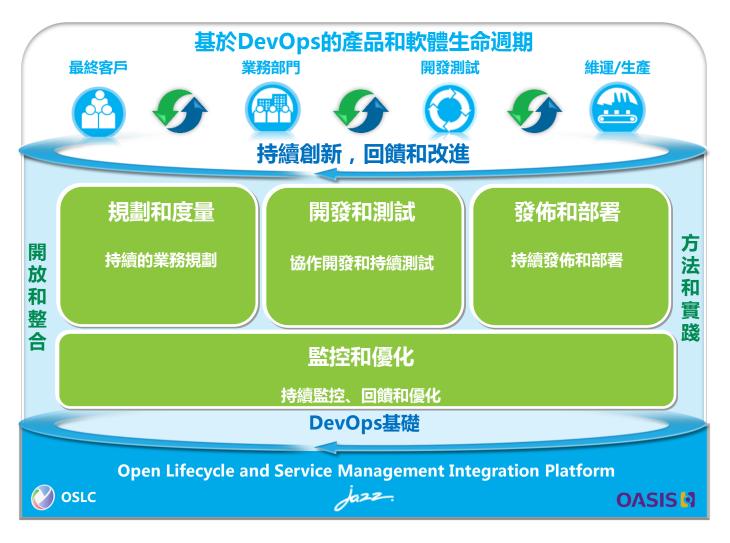


Enterprise capability for continuous software delivery that enables clients to seize market opportunities and reduce time to customer feedback.

企業通過持續的軟體交付抓住市場機會, 縮短獲得客戶回饋的時間。









## Agenda



## □CLM協作平台探討 □CLM協作平台趨勢 □What's New for CLM協作平台



## What's New for CLM 2013



2011

#### 2012

2013

#### Consumability: Improved productivity for practitioners

•Many usability improvements across the CLM products, such as:

- Simplified agile ranking in RTC
- Customizable main menu organization in RQM
- Simplified artifact locking in RRC
- •JazzHub Beta @ Innovate 2013!

#### Enterprise scaleability, quality, reliability and serviceablilty

Performance

- 40% faster plan loading in RTC
- ETL performance improvements for reporting
- Performance improvements in 3 node clustered environments

Serviceability improvements

#### **Boost for Software and Systems Engineering customers**

•Versioning, configuration management and change management, starting with RM and targeting 2H 2013 for initial delivery







#### IBM Rational Team Concert v4.0.3 Q2 2013

Be agile. Be lean. Work Together

Aaile

Markus Kent

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(|:||:)) ||.....||

Formal

Inne act (%)

Probability(%)

100 80

60 40

20

🚔 Medium

- Agile your way Scrum, waterfall or hybrid; adapt planning to meet your team needs and rhythm.
- Friction free communication by smart linking of tasks, code changes, builds and releases as you work
- Live dashboards write code not status reports live web based dashboards tell everyone the story
- Empower developers Fix bugs, juggle tasks, patch in seconds, easily add or remove features
- Runs anywhere open platform Works with your existing tools and data for incremental adoption

#### IBM Rational Team Concert v4.0.3 Highlights

- Simple and fast agile ranking Rank plans quickly and easily with drag and drop or explicit ranking
- New Jenkins plug-in with traceability to RTC SCM and work items Adopt RTC into Jenkins/Hudson teams faster, leverage hundreds of other Jenkins/Hudson OSS plug-ins, such as Sonar etc..
- Visual Studio developers see all their work in one place See work across projects, customize views
- Performance improvements Load plans 40% faster in the web UI, Improved CLI performance
- Regulatory reporting Report on time spent, approval descriptors and Modified by custom attributes



#### IBM Rational Quality Manager v4.0.3 Q2 2013 Quality and test management for value-driven software delivery

- **Comprehensive test plans -** All plans in one place. Agree on goals and keep things on track.
- Reporting with a purpose Dashboard and reports give you timely and accurate test metrics and defect counts. Trend charts let you take action before things go wrong.
- Quicker manual testing Straightforward test scripts guide you through test execution and capture results.
- Simplified lab management Schedule resource allocation and test execution using predefined resource configurations
- Requirements driven testing Link requirements to test cases and defects. Associate test script steps to achieve fine-grained traceability.



#### IBM Rational Quality Manager v4.0.3 highlights

The BM Technical Summit

- Improved consumability customization of RQM main menu; advanced customization support of artifact template; easier to organize and use keywords
- Improved Rational Test Workbench integrations keyword driven testing & multi-channel support
- Rational Test Virtualization Server integration enable continuous integration testing through test virtualization
- Duplicate and link artifact a way to support the need for parallel development and configuration management



*IBM Rational Requirements Composer v4.0.3 Q2 2013* Requirements Definition and Management across the lifecycle

- Empower teams of all sizes and complexity to define, analyze, manage, report with project requirements
- Improve visibility and understanding of requirements across the development lifecycle
- Realize project impact and downstream visibility using traceability across requirements, test, and development
- Drive development forward with agile-at-scale and iterative processes in fast paced markets
- Customer and stakeholder collaboration for improved agility and informed decisions

# Iterative Agile Waterfall

#### IBM Rational Requirements Composer v4.0.3 highlights

- Simplified Artifact Locking and artifact management
  - Introducing permanent locking
- Improved HPQC Sync integration provided with the Rational Lifecycle Integration Adaptor
- Performance acceleration server and client 15%









# Thank You

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