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IBM Software Group

Jazz Adoption@Rome Tivoli Lab

Scopri come far lavorare in perfetta sinergia i tuoi team e i tuoi progetti.

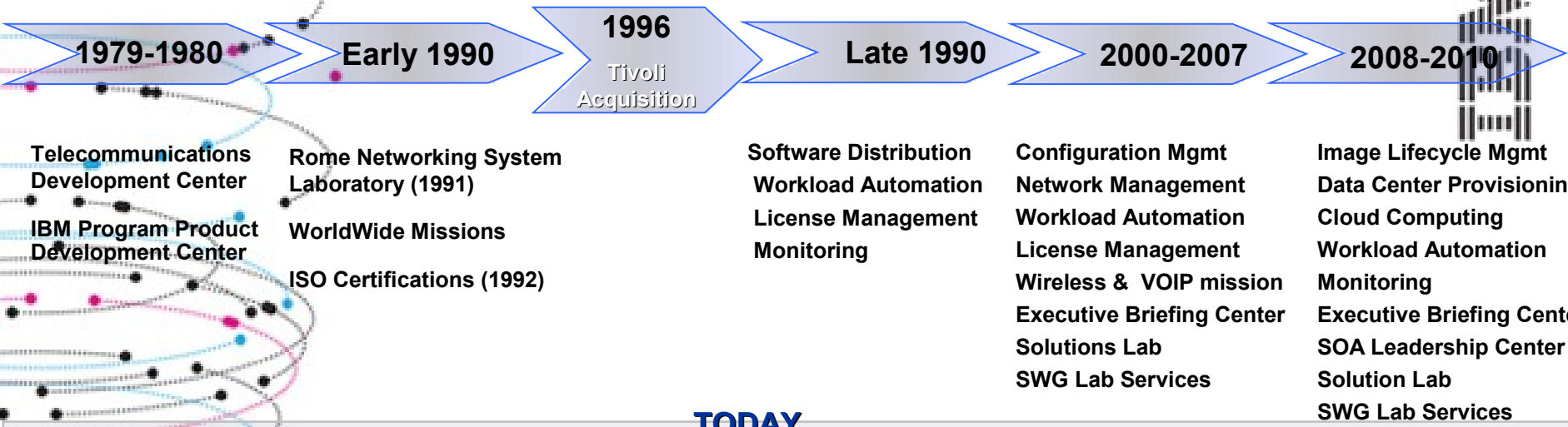
Agenda



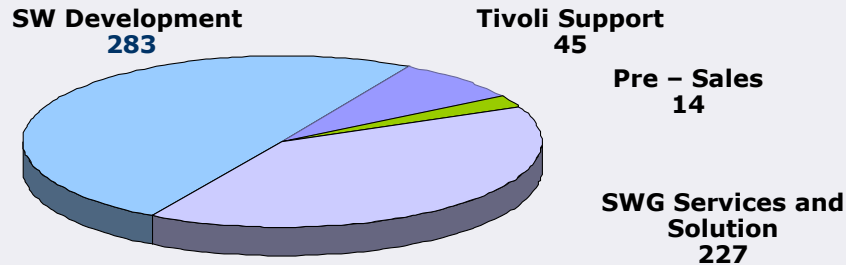
- Introduction to Rome Lab
- Agile Methodology Adoption
- Rational Team Concert: implementation and results
- Rational Quality Manager: implementation and results
- Getting ready for pilot: Rational Requirement Composer & RTCz
- Adoption Roadmap

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IBM Rome Lab History



TODAY



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Rome Lab at a glance



Product Development

Development of Tivoli Products within the following disciplines:

Workload Automation & Scheduling

+2000 WW Customers

Image Lifecycle Management & Data Center Provisioning

+1500 WW Customers

Cloud Computing

+100 WW Customers

Monitoring

+3000 WW Customers

Verification & IDD

Central Architectural Team

PM Competency Center

IBM SWG Solutions Lab

Development of Custom Solutions (Websphere, Tivoli, Lotus)

Development and Services of Networked Interactive Content Access (NICA) Solution

Automated Meter Management (AMM)

SWG Pre-sales

Executive Briefing Center

Tivoli SWAT Team

Operations

Lab Controller

IT Services

SWG Services & Education

Information Management

Lotus

Tivoli

Websphere

Rational

Tivoli Support

Level 2 support

Global Response Team organizations

Tivoli software



Products developed in Rome are used by **70% of Fortune 100 customers**

Agenda



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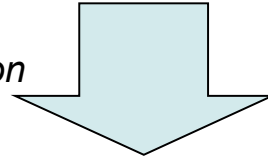
Why Agile?



The problem to solve

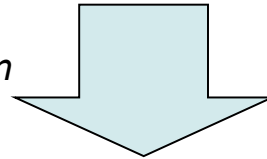
“Rapidly provide customers what they need to compete while maintaining a high-quality deliverables”

The solution



- Deliver business value early and often in the development cycle
- Validate deliverables with customers and integrate requirements as they emerge
- Leverage tight, efficient, self organizing teams

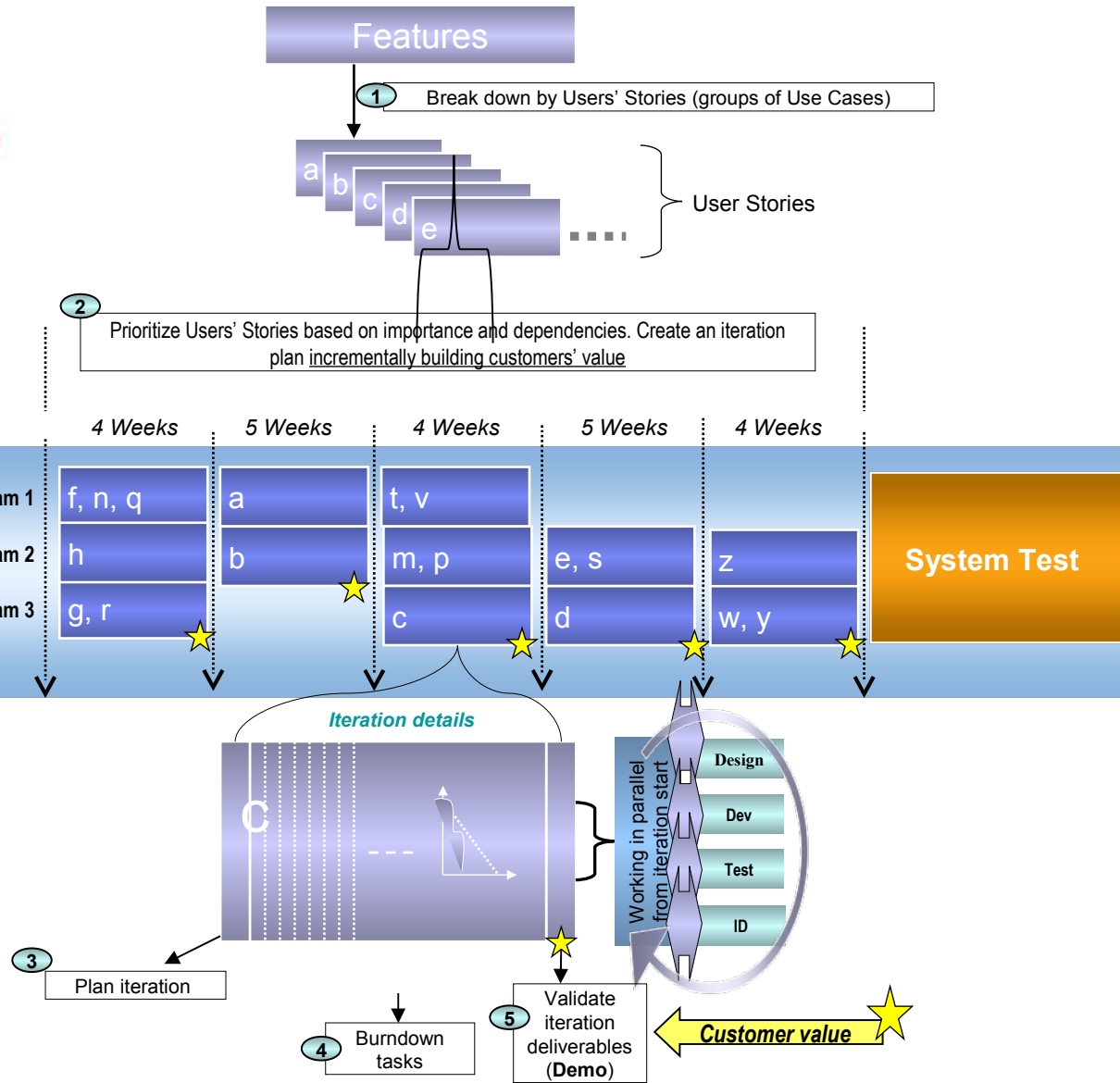
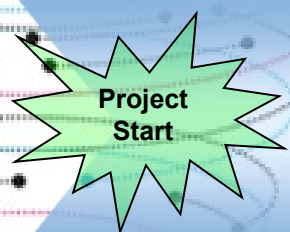
It's implementation



“Disciplined Agile Software Engineering uses...continuous stakeholder feedback to deliver high-quality, consumable code through user stories and a series of short, stable, time-boxed iterations.”

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Agile Implementation@RomeLab



Jazz as Agile's booster



Jazz is an IBM initiative to transform software delivery making it more collaborative, productive and transparent thus releasing the common Agile foundations

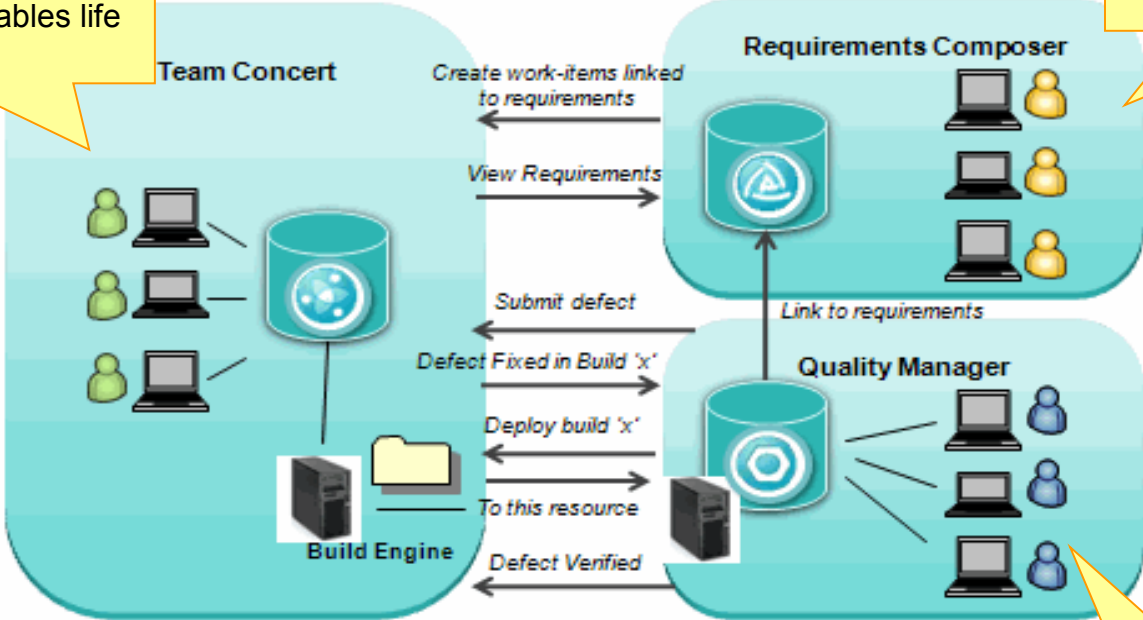
- Co-located and small teams ... is achieved in Jazz by
 - **Collaboration** - development teams collaborate in real time, in the context of the work they are doing, and in diverse environments
- Highly skilled people, relying on continuous interaction rather than extensive project documentation
 - **Productivity** - process followed by design, rather than as a documented imposition
- All stakeholders part of the team
 - **Transparency** - continuous feedback loop, improved predictability and accountability

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Collaborative ALM: Aligning reqs, dev & test

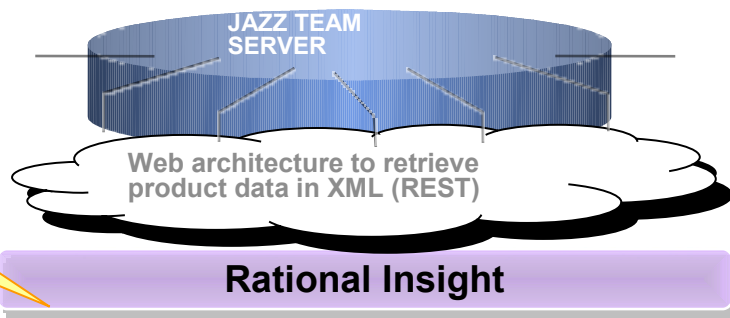
Surf the Collaborative ALM web

• **RTC** provides complete development deliverables life cycle management



• **RRC** provides the product requirements life cycle management

• **Rational Insight** for enterprise reporting solution of real-time, aggregated and historical project information in multiple repositories



• **RQM** provides the core requirements for test process management

Agenda



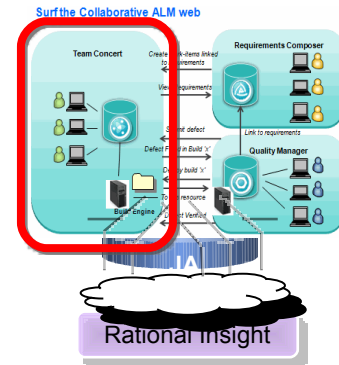
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TWS4Apps – The Rome RTC implementation



- IBM Tivoli Workload Scheduler for Applications 8.5 is one of the products of the Tivoli Workload Automation family
- It has been selected as a **pilot project** for evaluating advantages of adopting the Jazz platform (RTC 1.0) in an Agile development context
- All project activities (plan, development, test and ID) have been performed using the Jazz platform
- Team members located in Rome and Boeblingen (Germany)
- It has been a "continuous integration" task: we daily worked to improve our Jazz adoption level!
- We succeeded in adopting Jazz in a context where legacy infrastructures could not be completely abandoned for several reasons



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RTC - Integration Layer

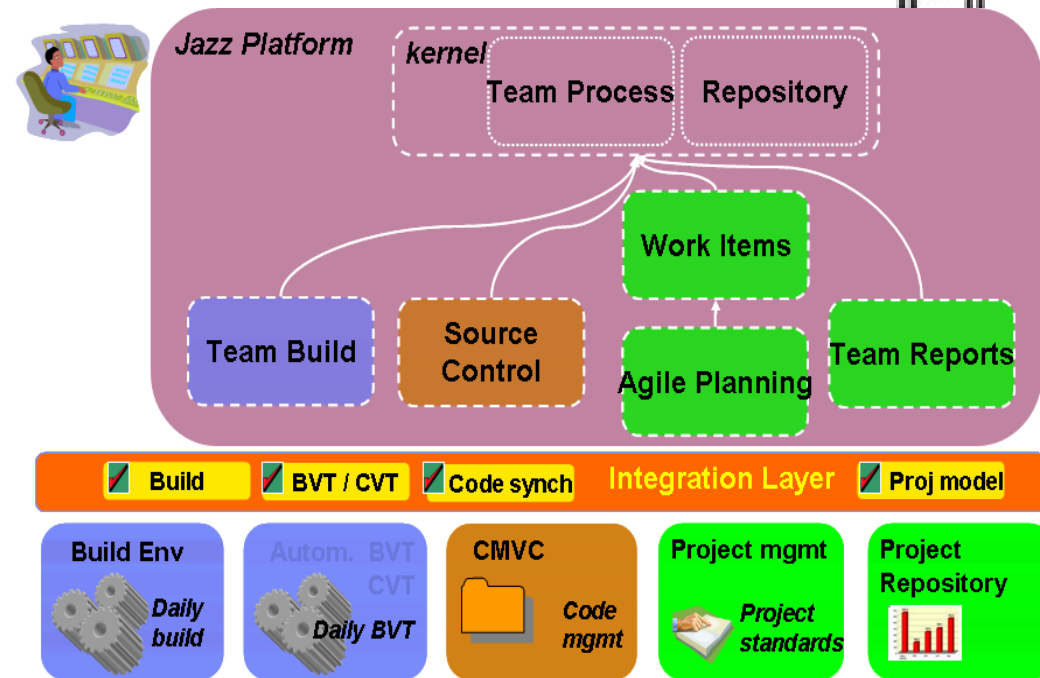


TWS4Apps was not the “easiest project” for RTC tool exploitation due to:

- Complex and not flexible Build environment for security compliance
- Being a legacy product (C language)
- Customer support team using another tool for version control CMVC

However, it is very representative of the majority of the projects currently undergoing in the Lab.

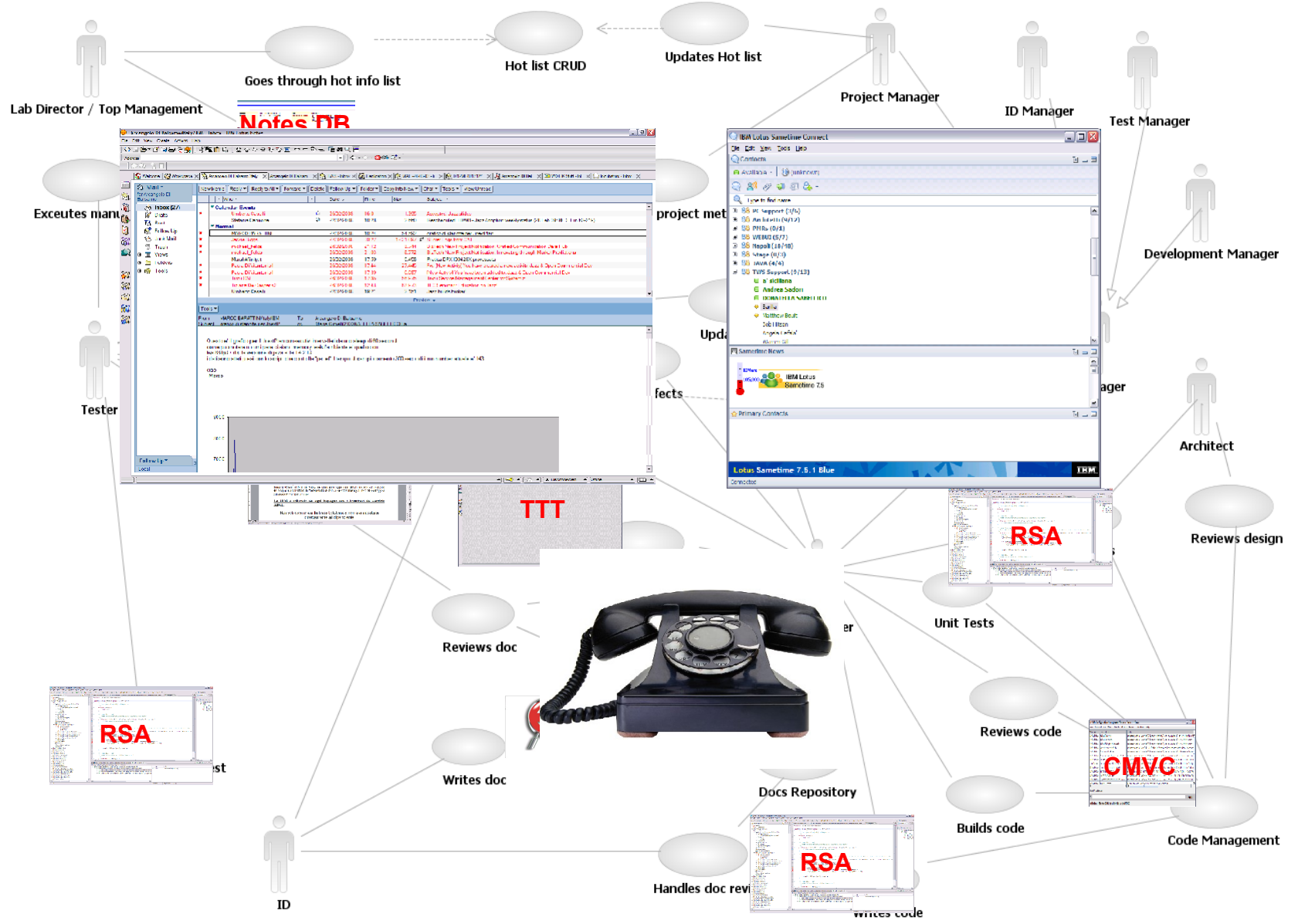
For this reason we built an integration Layer between Jazz and the existing legacy infrastructure.



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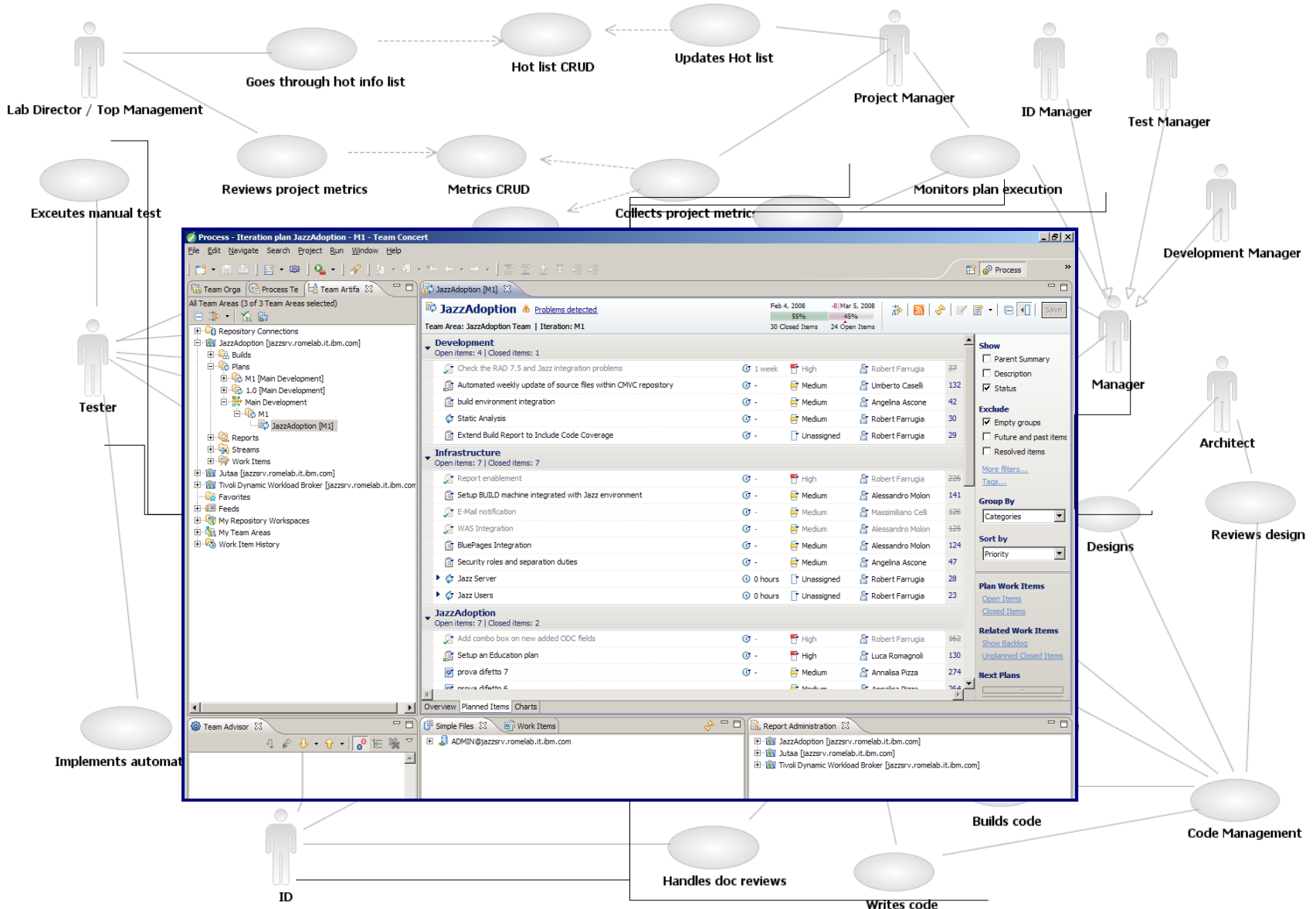
Collaboration @ RomeLab – Before Jazz

Release Development Use Cases



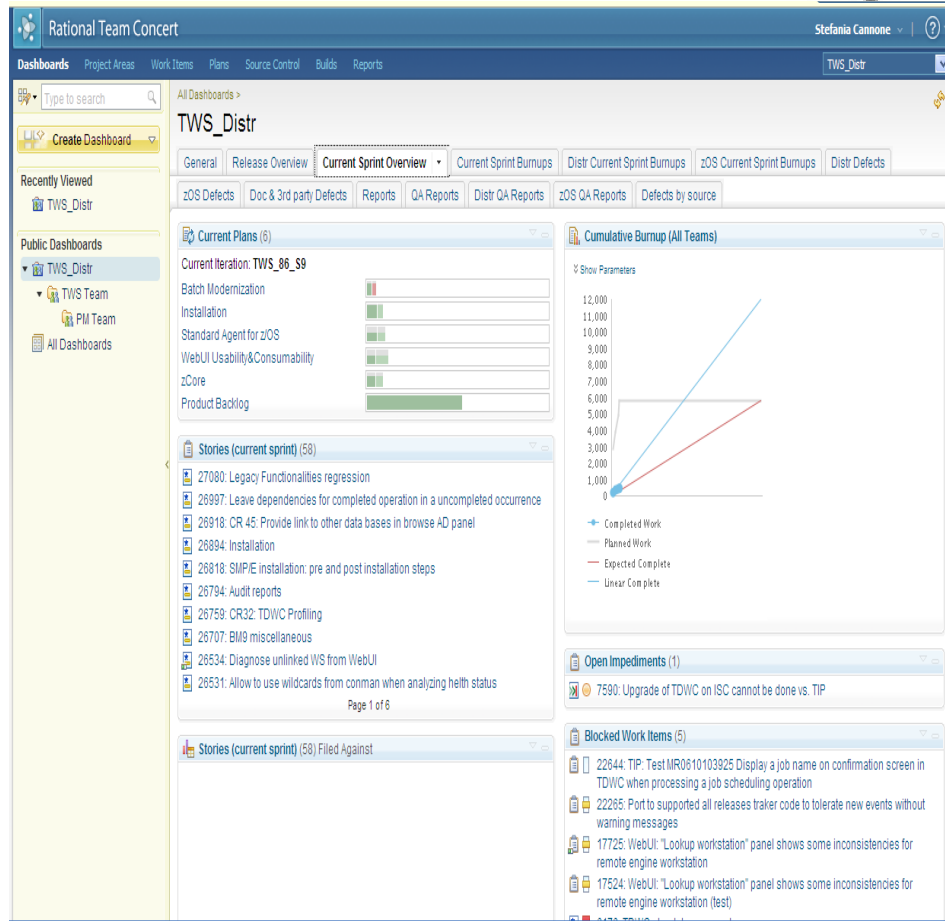
Collaboration @ RomeLab – After Jazz

Release Development Use Cases



RTC - Project Dashboard Customization

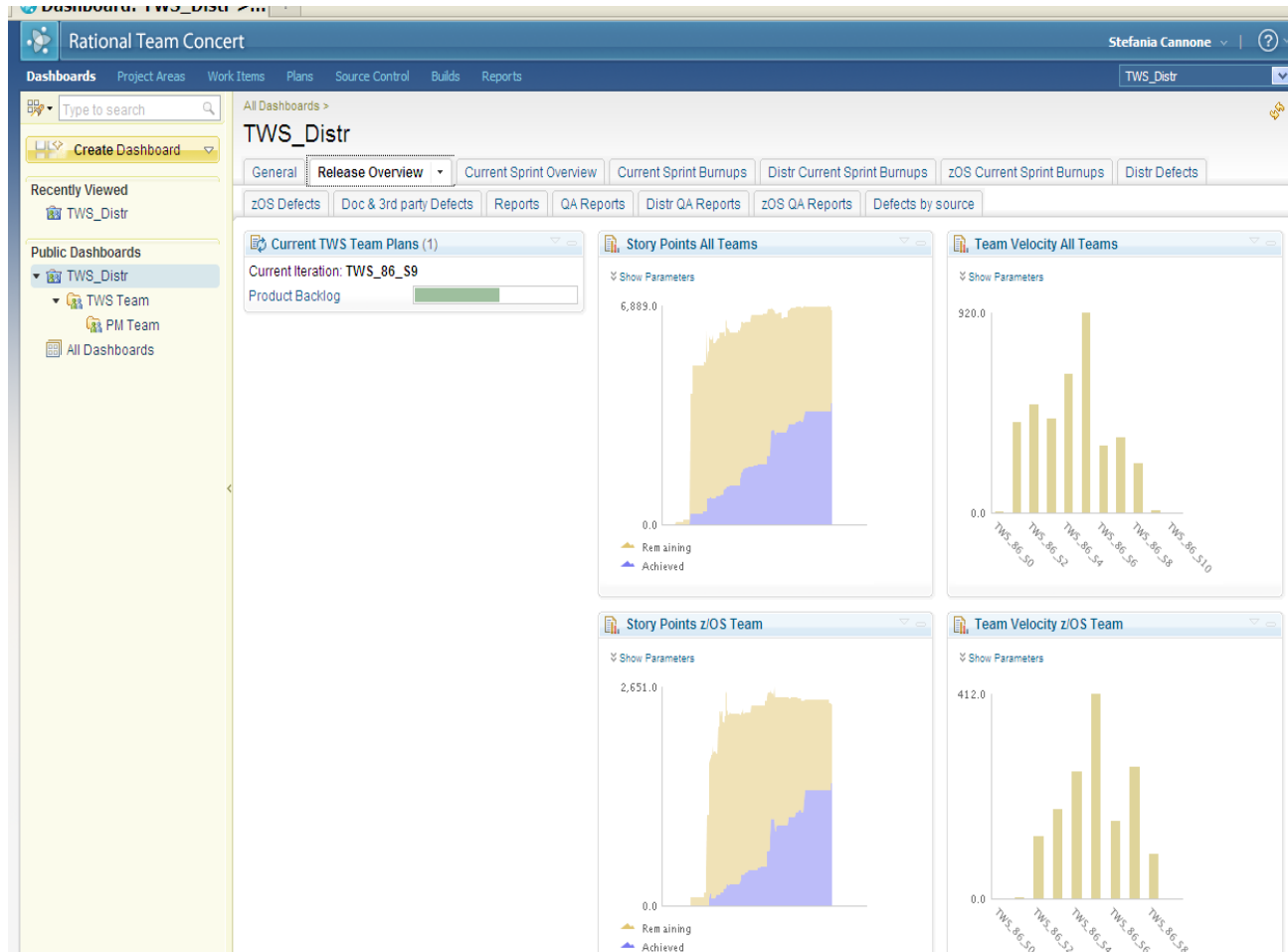
- All project data directly available via web
- All reports **automatically** updated daily (no manual intervention is more needed)
- **Customized our project Dashboard** in order to easily have access to:
 - General Project info tab: project description, team, recent events)
 - Release Overview Status tab (with all related reports, such as the product backlog chart and the team velocity)
 - Current Sprint Status tab (with all related reports, such as current sprint stories and current sprint burnup chart)
 - We customized several reports (for example to have defect trend data)



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Rational Agile Day, 3 Marzo Milano

Release Overview tab



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RTC - Main strengths identified



1. **Collaboration**: One tool for entire team

- Foster collaboration
- Easy sharing of info among team
- Quicker and more efficient cooperation
- Easy to get new people on board
- Easy collaboration w/ distributed teams

1. **Productivity**: Navigation of project data

- All project related data (iteration plans, code, docs, test, defects) are linked together
- Can be easily accessed and navigated
- Any drill down is feasible and easy

1. **Transparency**: Real time info and data sharing

- Automatic project data collection
- More transparency and more efficiency
- Reduced effort for Project Governance

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Results of Implementation



- **Savings**

- Development activities: 25%
- For metrics collection: 25%
- Information Development: 15%

- **12-months Post-GA Quality Assessment in plan (July 2010)**

- Projected improvement: 19% reduction in APAR average per customer
- Actual improvement: 57% reduction in APAR avg per customer, confirming good code stability

- **RTC 2.0 is the result of the project**

- RTC 2.0 includes most of the enhancement requests submitted during the TWS4Apps project where RTC 1.0 was used

- **Rome Lab now formal reference for Rational!**

- [Scopri come far lavorare in perfetta sinergia i tuoi team e i tuoi progetti.](#)



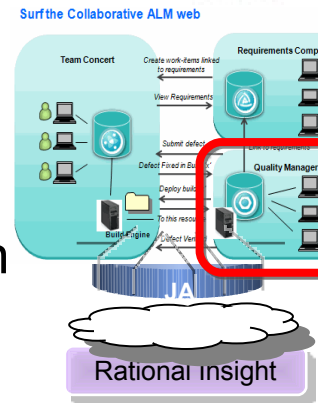
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ISDE 6.x – The Rome RQM adoption

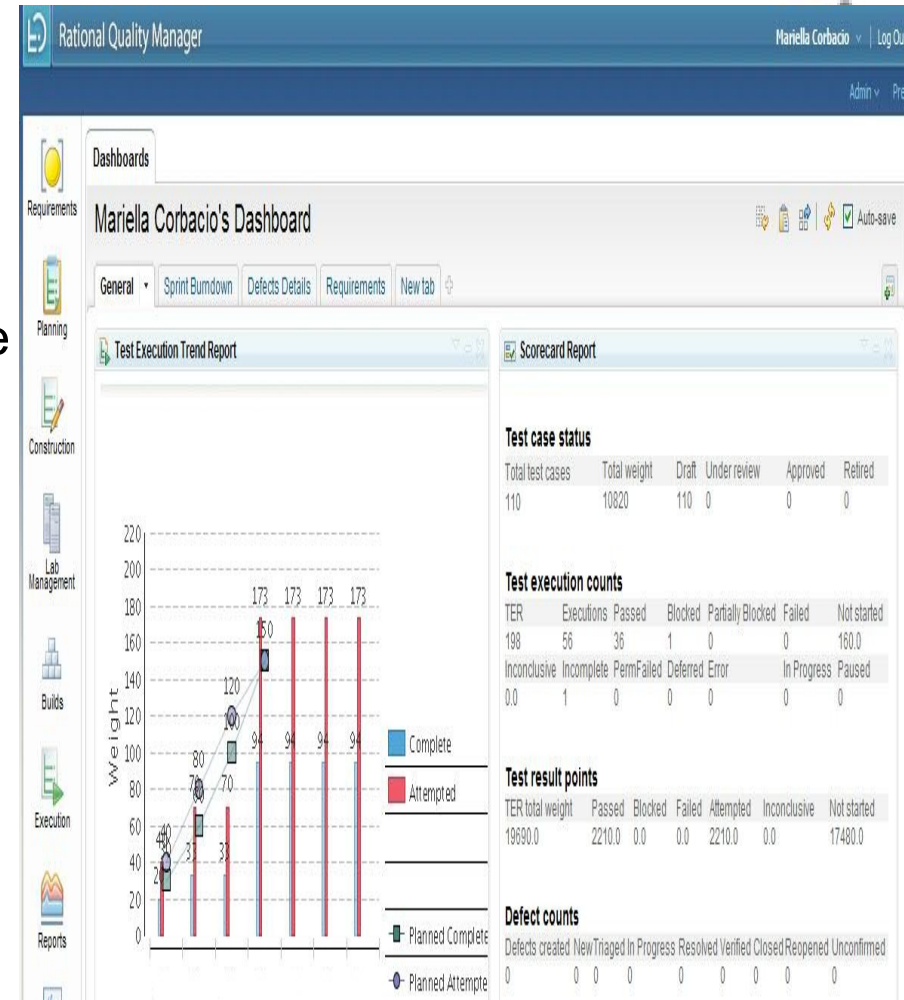
- IBM Systems Director Editions (ISDE) is a simplified packaging solution of individual Tivoli and STG products
- Pilot started off on ISDE 6.1.2 with RQM 1.0 where initial assessment was made and feedback were circled back to the RQM team
- All test activities (plan, test cases design, review) have been performed using RQM, while defects and code management have continued with traditional infrastructures
- With ISDE 6.2.1 currently exploiting RQM 2.0.1 together with RTC 2.0.1 (on going)
- Team members located in Rome, Ireland and US



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RQM - Project Dashboard Customization

- All test project data directly available via web
- **Customized Dashboard in order to:**
 - organize a high-level overview of the status of your project, team, or workload for an on demand reporting
 - drill down to get information on specific test assets or updated reports
 - customize reports
 - create cross repository dashboards



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RQM - Main strengths identified



1. *Project lifecycle management with a test plan centric approach*

Integrated test management with a WEB interface across all the test aspects (business objectives, test strategy, test cases, resources, environments, entry/exit criteria, risk assessment, plan and test cases review and approval, test tracking ...).

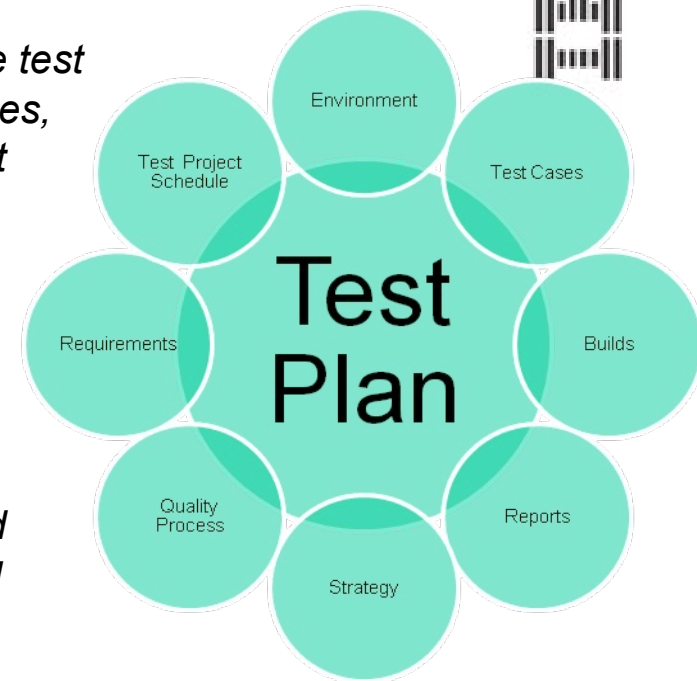
All project related data (iteration plans, test, defects) are linked together

2. *Collaborative and adaptive test plan management*

Structured and customizable test plan with multiple user defined sections, possibility to assign different ownership for specified sections, team collaboration improvements

3. *Collaborative and adaptive test cases design*

Test cases easy to create, maintain and evolve, test cases re-use, possibility to assign different ownership for specified sections, ...



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RQM - Main strengths identified



4. **Easy link between RTC epics-stories and requirements and test cases on RQM**

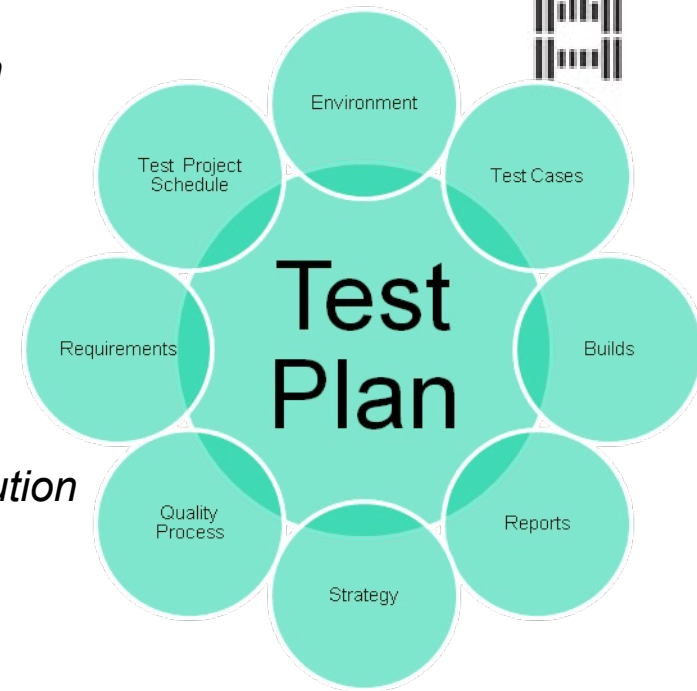
For example, it is possible to link test scenarios defined in RQM with related user stories entered in RTC. Increased requirement traceability and direct linking with test cases identified for a specific requirement

5. **Execution paths optimization**

Easy determination of the most efficient configuration coverage patterns and execution paths and related execution record generation

6. **Extensible and open architecture**

Leverage test automation feature provided by RQM integrating automated test suites developed internally



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Results of Implementation



- **Savings**

- Test Planning : 10%
- Test Design: 20%
- Test Execution : 20% *(projected)*
- Test tracking and results consolidation : 70% *(projected)*

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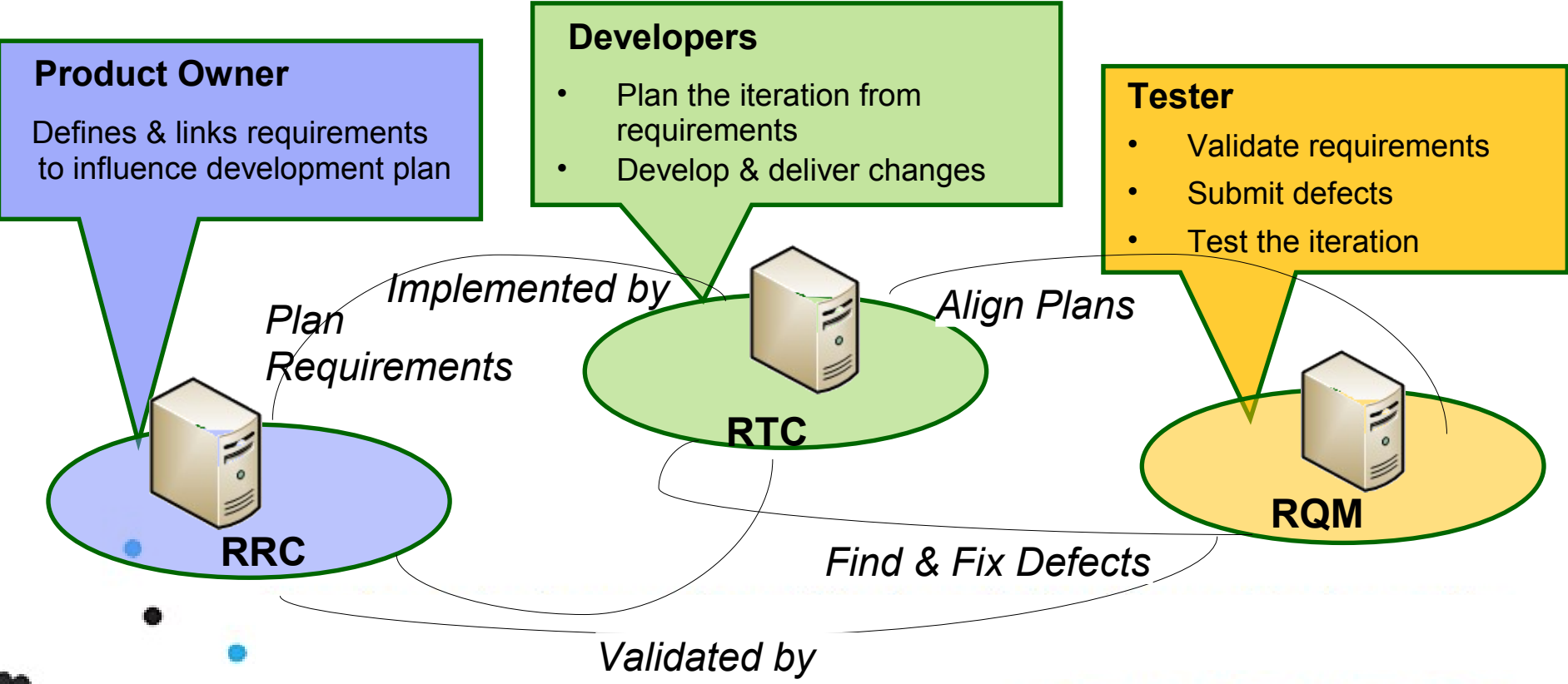


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RRC Pilot scenario

- 1. Define methodology's Best Practice
- 2. Customize RRC to support methodology:
 - Template Creation
 - How to use RRC
 - Organize artifacts to reflect methodology
 - Validate link with RQM and RTC



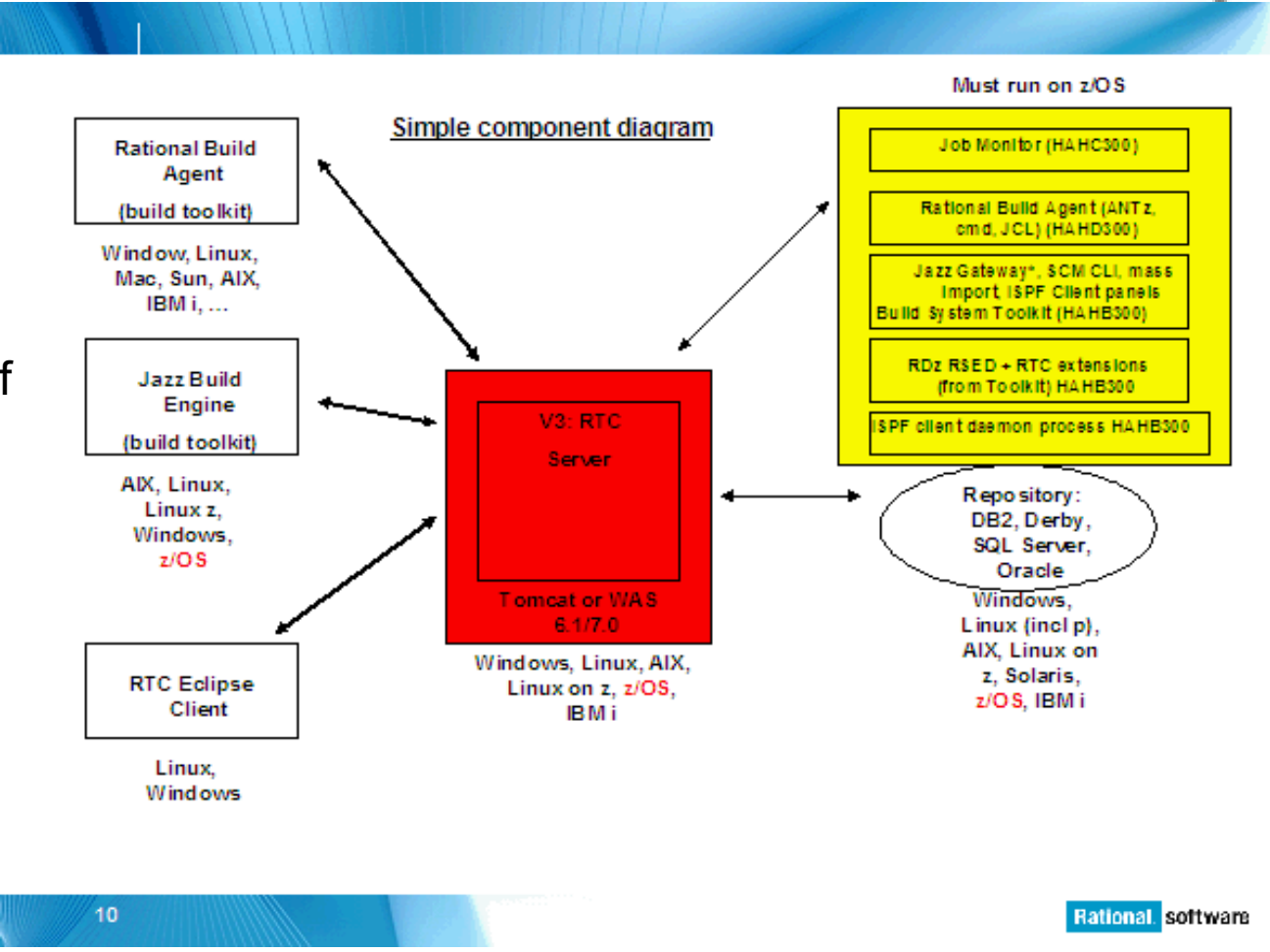
RTCz Pilot for TWSz & NetView for z/OS

- Server with RTC v3 installed

Next steps:

- RTC zOS add-on install
- Configuration & setup of Build Toolkit, BuildForge agent, RDz client and RDz.

The pilot will be done in parallel for TWSz and NetView for zOS (in Raleigh) sharing the same RTC v3 server



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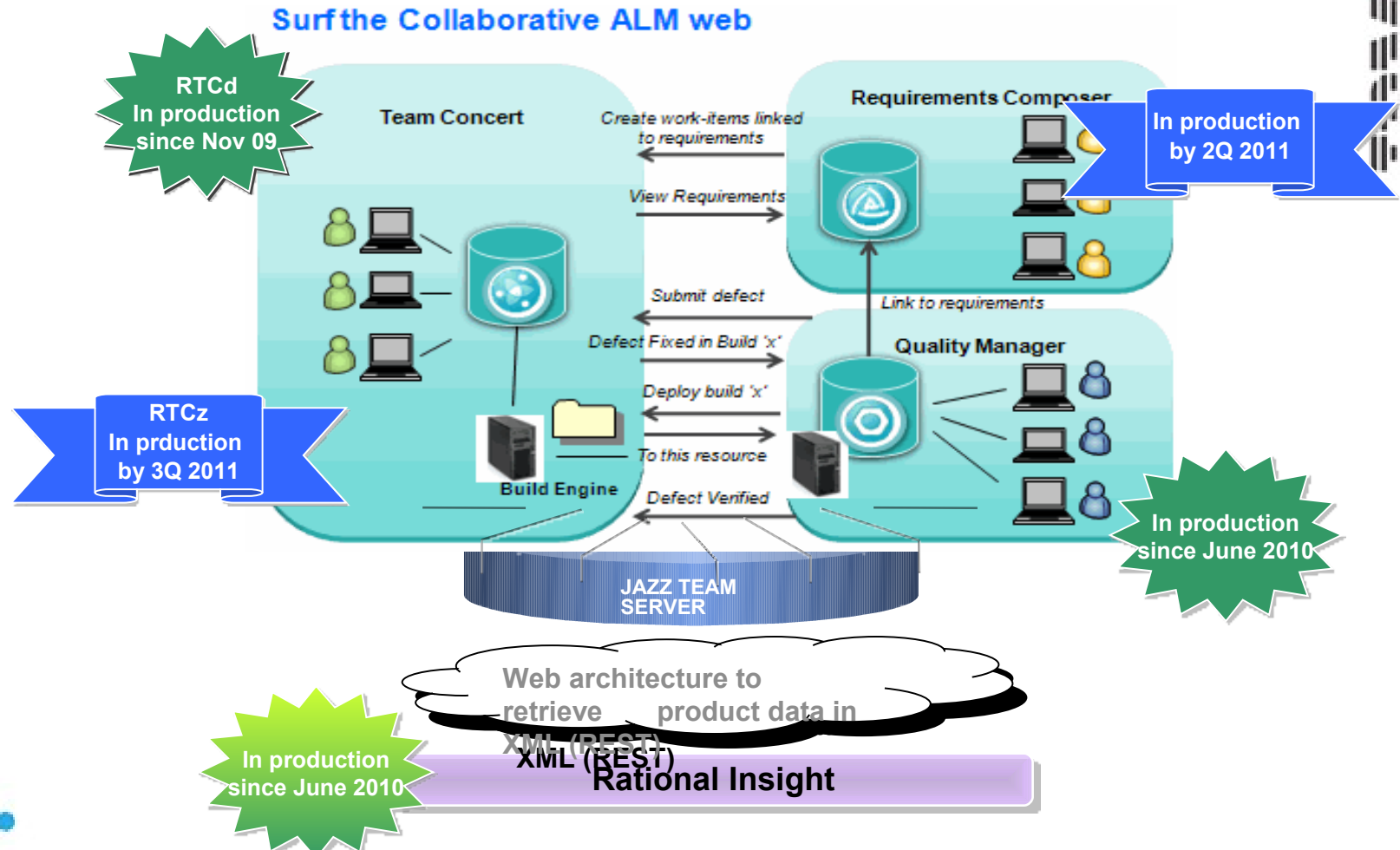
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Jazz Collaborative ALM (C/ALM) Adoption Roadmap



DISCLAIMER: The above information on the Jazz CALM product adoption timeline from Rome Lab is intended to outline our general Lab direction and is not a commitment, promise, or legal obligation. The Jazz CALM adoption described for the Rome Lab remains at our sole discretion.



QUESTIONS

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A decorative graphic on the left side of the page features a vertical stack of horizontal lines in various colors (blue, pink, black) that spiral downwards. Small black dots are scattered along these lines, creating a sense of motion and connectivity.

**Thank
YOU**

www.ibm/software/rational

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